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## 低温冷水机

Low Temperature Water Chiller (Heat Recovery)



华利集团有限公司  
HUALI GROUP CO., LTD



华利集团有限公司是集科、工、贸为一体的现代化大型企业。

专业从事海陆中央空调、冷藏冷冻设备、电子电器的研制及工程设计和安装。集团下辖五家全资子公司。

东莞市豪利制冷设备有限公司:专业从事冷水机、冷藏冷冻/冷凝机组、热泵机组的研制、设计、生产和安装。

深圳市高雅空调有限公司:专业从事柜式空调机、恒温恒湿空调机、吊顶空调机的研制、设计、生产和安装。

江苏金华利设备有限公司:专业从事风机盘管、风柜、组合式风柜的研制、设计、生产和安装。

浙江金华利空调设备有限公司:专业从事冷凝器、蒸发器的研制、设计、生产。

深圳市金华利制冷设备有限公司:专业从事制冷设备及配套产品海外推广及销售。

先进的技术性能、可靠的产品质量、及时周到的用户服务,得到了广大用户的首肯,在航天、航海、海上石油平台、医药、电子、化工、商业等行业和场所得到了广泛的应用,并出口到德国、希腊、韩国、日本、马来西亚、泰国、香港等数十个国家和地区。

华利集团有限公司充分利用完善的海外销售网络和优质的产品资源,大力开拓国外船用/陆用中央空调、冷藏、通风设备的销售市场,为国外客户提供优质的产品和配套服务。我们热忱期盼各界友人的关心、支持与合作!

**HUALI**

华利集团有限公司  
HUALI GROUP CO., LTD

Huali Group Co., Ltd. is a modern large-scale enterprise integrating research, production and trade. It specializes in developing, designing and installing central air conditioner, refrigerating equipment, electric equipment.

Its 5 wholly-owned subsidiaries are as follows:

Dongguan Golden Refrigeration Equipment Co., Ltd. specializes in developing, designing, manufacturing and installing water chiller, refrigerating equipment, condensing unit and heat pump.

Shenzhen Elegant Air Conditioner Cooling Co., Ltd. specializes in developing, designing, manufacturing and installing cabinet air conditioner, thermostatic and humidistatic air conditioner and ceiling air conditioner.

Jiangsu Yongsheng Air Conditioner Co., Ltd. specializes in developing, designing, manufacturing and installing marine central air conditioner, refrigerating equipment and electric equipment.

Zhejiang Jinhuali Air Conditioner Cooling Co., Ltd. specializes in developing, designing and manufacturing condenser and evaporimeter.

Shenzhen Jinhuali Refrigeration Plant Co., Ltd. specializes in promoting and selling refrigeration equipment and ancillary products in overseas market.

"Advanced technology, reliable quality and considerate service" obtained the approval of the majority of users. Our products are widely used in spaceflight, navigation, offshore oil platform, medicine, electronics, chemical engineering and commerce, etc. They have been exported to Germany, Greece, South Korea, Japan, Malaysia, Thailand, Hongkong and dozens of countries and regions.

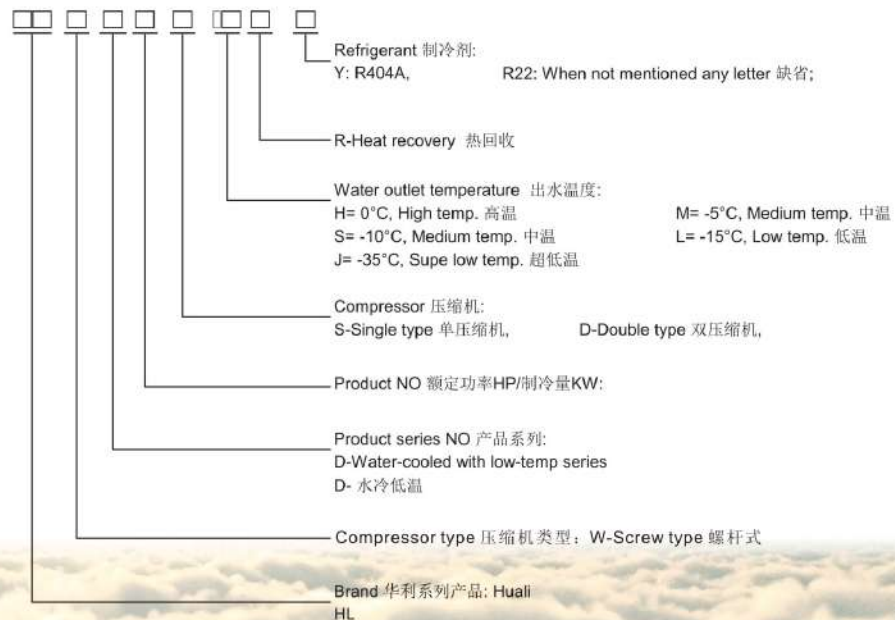
Huali Group Co., Ltd. takes full advantage of perfect overseas sales network and high-quality products, devote major efforts to increasing overseas market of central air conditioner, refrigerating and ventilation equipments, provides foreign customers with quality products and corresponding service. Sincerity with full expectation spreads to care, support and cooperation from friends all over the world.

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(热回收) 水冷螺杆式低温冷水机

### Low Temperature Screw-type Water Chiller (Heat Recovery)







## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)

### ※机组简介 Profile

低温冷水机组系列是由深圳市金华利制冷设备有限公司针对冷冻、冷藏、食品加工、速冻、工业冷却等行业，自行开发、设计、制造的系列产品。机组共有350种标准规格，根据蒸发温度分为五种机型，每种机型有70种标准规格。制冷范围为14200kcal/h~2036600kcal/h,冷冻水溶液温度范围-35~10℃。除标准规格外，还可以根据客户要求订做各类非标机组。另外，我司还可以生产盐水、高电压及其他电源制式产品。

### ※机组特点 Performance and Advantages

#### 1、高效

- ◆ 机组采用双螺杆压缩机，匹配华利的高效冷凝器与蒸发器及进口膨胀阀，四大部件完美搭配。
- ◆ 机组配备华利的热回收器，在低温使用情况下可回收的热量为制冷量的 30% ~ 80%，热水最高水温可达 70℃。
- ◆ 热量回收时，机组整机效率可提高 5%。

#### 2、运行可靠

- ◆ 机组具备逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护7种安全保护措施，保证机组正常运行。
- ◆ 机组为双回路与双压缩机设备，当单台压缩机出现故障时，另一台压缩机仍可正常运行，不影响客户使用。
- ◆ 所有机组出厂前均通过国家标准安全检测系统测试，确保机组性能符合国家标准。

#### 3、智能管理

- ◆ 机组采用微电脑模式控制系统，可提供最简易与最周到的操作界面，及时反馈各种维修资讯。有需要时可提供远程服务配置。
- ◆ 机组控制系统可接用户中央控制系统，客户可随时全方位了解机组运行情况。

#### 4、安装、维护简便

- ◆ 机组出厂前已充注冷媒和润滑油，客户只需连接进、出水管和电源即可运行。
- ◆ 控制界面直接显示故障内容，方便及时了解故障并排除。

#### 5、多种冷媒选择，满足客户不同需求

- ◆ 机组根据客户需求提供R22、R404A等冷媒。



## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)

出水温度:0°C Water outlet temperature 0°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 70SH  | 100SH  | 130SH  | 170SH  | 190SH  | 220SH  | 250SH       | 270SH  | 300SH  | 360SH  | 420SH   | 450SH   |       |
|---|---|--------|--------|--------|--------|--------|-------------|--------|--------|--------|---------|---------|-------|
|   | 70SHR   | 100SHR | 130SHR | 170SHR | 190SHR | 220SHR | 250SHR      | 270SHR | 300SHR | 360SHR | 420SHR  | 450SHR  |       |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 61.0   | 83.3   | 109.5  | 145.1  | 159.4  | 188.0       | 217.3  | 235.2  | 258.9  | 308.3   | 356.3   | 386.0 |
|   | KW  | 71     | 97     | 127    | 169    | 185    | 219         | 253    | 274    | 301    | 359     | 414     | 449   |
|   | USRT  | 20.2   | 27.6   | 36.2   | 48.0   | 52.7   | 62.2        | 71.9   | 77.8   | 85.6   | 101.9   | 117.8   | 127.6 |
| 输入功率 Input Power                            | KW  | 22.4   | 29.3   | 36.6   | 48.8   | 53.2   | 59.5        | 68.9   | 75.3   | 83.8   | 97.0    | 110.9   | 119.2 |
| 压缩机输入功率台数 Comp.Input Power/Qty (kw)         | 22.4X1  | 29.3X1 | 36.6X1 | 48.8X1 | 53.2X1 | 59.5X1 | 68.9X1      | 75.3X1 | 83.8X1 | 97.0X1 | 110.9X1 | 119.2X1 |       |
| 机组运行电流 Comp.Current (A)                     | 37.6  | 49.3   | 61.5   | 82.1   | 89.4   | 100.1  | 115.9       | 126.5  | 140.9  | 163.1  | 186.4   | 200.4   |       |
| 电源 Power Supply                             | 3 3~380V-50HZ   |        |        |        |        |        |             |        |        |        |         |         |       |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |             |        |        |        |         |         |       |
| 制冷回路 Number of Refrigeration Circuit        | 1   |        |        |        |        |        |             |        |        |        |         |         |       |
| 能量控制 Capacity Control (%)                   | 0.66,100  |        |        |        |        |        | 0.50,75,100 |        |        |        |         |         |       |
| 制冷剂充注量 Refrigerant Charge (kg)              | 18  | 25     | 32     | 42     | 46     | 55     | 62          | 68     | 75     | 90     | 102     | 110     |       |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |        |        |        |        |        |             |        |        |        |         |         |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |             |        |        |        |         |         |       |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 5"     | 5"      | 5"      |       |
| 冷却水流量 Cooling Water Flow (m³/h)             | 16.1  | 21.7   | 28.2   | 37.4   | 41.0   | 47.8   | 55.3        | 60.0   | 66.2   | 78.3   | 90.3    | 97.7    |       |
| 冷凝器水压降 Condenser Water Pressure drop(KPa)   | 39  | 45     | 43     | 50     | 50     | 49     | 47          | 48     | 48     | 49     | 48      | 49      |       |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |        |        |        |        |        |             |        |        |        |         |         |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |             |        |        |        |         |         |       |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 4"     | 5"      | 5"      |       |
| 20%乙二醇水溶液流量 20% Glycol Flow Volume (m³/h)   | 12.9  | 17.6   | 23.2   | 30.7   | 33.7   | 39.8   | 46.0        | 49.8   | 54.8   | 65.2   | 75.4    | 81.7    |       |
| 蒸发器水压降 Evaporator Water Pressure drop (KPa) | 24  | 31     | 35     | 39     | 50     | 49     | 47          | 73     | 70     | 47     | 52      | 69      |       |
| 运转噪音 Running Noise dB(A)                    | 73.1  | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0        | 75.0   | 75.0   | 75.0   | 75.0    | 75.0    |       |
| 整机重量 Total weight (Kg)                      | 980   | 1010   | 1200   | 1350   | 1540   | 1680   | 1800        | 1920   | 2030   | 2080   | 2520    | 2730    |       |
| 运行重量 Running Weight (Kg)                    | 1080  | 1120   | 1360   | 1530   | 1700   | 1850   | 1980        | 2080   | 2240   | 2660   | 2800    | 3020    |       |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 21                      | 28            | 35            | 45            | 49            | 58            | 65            | 71   | 78            | 95             | 107            | 115            |       |
|---|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------|---------------|----------------|----------------|----------------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 18.3          | 25.0          | 32.8          | 43.5          | 47.8          | 56.4          | 65.2 | 70.6          | 77.7           | 92.5           | 106.9          | 115.8 |
|   | KW                      | 21            | 29            | 38            | 51            | 56            | 66            | 76   | 82            | 90             | 108            | 124            | 135   |
|   | USRT                    | 6.1           | 8.3           | 10.9          | 14.4          | 15.8          | 18.6          | 21.6 | 23.3          | 25.7           | 30.6           | 35.3           | 38.3  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |               |               |               |               |               |               |      |               |                |                |                |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |               |               |               |               |               |               |      |               |                |                |                |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 1"                      | 1-1/2"        | 1-1/2"        | 1-1/2"        | 1-1/2"        | 2"            | 2"            | 2"   | 2"            | 2"             | 2-1/2"         | 2-1/2"         |       |
| 卫生水流量 Reclaimed Water Flow(m³/h)                    | 3.7                     | 5.0           | 6.6           | 8.7           | 9.6           | 11.3          | 13.0          | 14.1 | 15.5          | 18.5           | 21.4           | 23.2           |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(KPa) | 21                      | 24            | 23            | 24            | 27            | 27            | 26            | 26   | 26            | 28             | 27             | 26             |       |
| 整机重量 Total weight (Kg)                              | 1030                    | 1060          | 1250          | 1400          | 1590          | 1730          | 1880          | 2020 | 2110          | 2460           | 2620           | 2830           |       |
| 运行重量 Running Weight (Kg)                            | 1130                    | 1170          | 1410          | 1580          | 1750          | 1900          | 2060          | 2160 | 2320          | 2740           | 2900           | 3120           |       |
| 机组尺寸 Dimension L×W×H                                | 2200×800×1500           | 2250×800×1500 | 2300×800×1850 | 2500×900×1850 | 2600×900×1800 | 2900×900×1800 | 2900×900×1850 |      | 2950×900×1800 | 3000×1000×1800 | 3000×1000×1800 | 3600×1000×1800 |       |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 5°C/0°C, 冷凝器进口温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW.
- 冷冻水溶液温度范围: 0°C ~ 10°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 5 °C/ 0°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW.
- Chilled Liquid range: 0°C ~ 10°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度 0°C Water outlet temperature 0°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 470SH 540SH 600SH 640SH 720SH 880SH 1040SH 1185SH 1400H 340DH 370DH 505DH   |         |         |         |         |         |                               |         |         |        |        |        |        |
|---|---|---------|---------|---------|---------|---------|-------------------------------|---------|---------|--------|--------|--------|--------|
|   | 470SHR 540SHR 600SHR 640SHR 720SHR 880SHR 1040SHR 1185HR 140DHR 340DHR 370DHR 505DHR  |         |         |         |         |         |                               |         |         |        |        |        |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 400.9   | 466.9   | 512.7   | 547.4   | 617.0   | 756.3                         | 891.1   | 1018.3  | 122.1  | 290.3  | 318.8  | 434.6  |
|   | KW  | 466     | 543     | 596     | 637     | 718     | 880                           | 1036    | 1184    | 142    | 338    | 371    | 505    |
|   | USRT  | 132.6   | 154.4   | 169.5   | 181.0   | 204.0   | 250.1                         | 294.7   | 336.7   | 40.4   | 96.0   | 105.4  | 143.7  |
| 输入功率 Input Power                            | KW  | 123.0   | 141.7   | 157.2   | 166.9   | 187.7   | 229.0                         | 268.3   | 303.5   | 44.8   | 97.6   | 106.4  | 137.8  |
| 压缩机输入功率×台数 Comp.Input Power/Qty (kw)        |   | 123.0×1 | 141.7×1 | 157.2×1 | 166.9×1 | 187.7×1 | 229.0×1                       | 268.3×1 | 303.5×1 | 22.4×2 | 48.8×2 | 53.2×2 | 68.9×2 |
| 机组运行电流 Comp.Current (A)                     |   | 206.7   | 238.2   | 264.2   | 280.6   | 315.5   | 385.0                         | 451.1   | 510.3   | 75.2   | 164.2  | 178.8  | 231.8  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |                               |         |         |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |                               |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1   |         |         |         |         |         | 2                             |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0.50,75,100   |         |         |         |         |         | 0.25,37.5,50,62.5,75,87.5,100 |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115   | 134     | 148     | 158     | 177     | 218     | 256                           | 292     | 36      | 84     | 92     | 124    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |                               |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |                               |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 5"  | 5"      | 5"      | 5"      | 6"      | 6"      | 8"                            | 8"      | 3"      | 4"     | 5"     | 5"     |        |
| 冷却水流量 Cooling Water Flow (m³/h)             | 101.3   | 117.7   | 129.6   | 138.2   | 155.7   | 190.6   | 224.4                         | 255.9   | 32.1    | 74.8   | 82.1   | 110.6  |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 55  | 62      | 64      | 65      | 67      | 70      | 80                            | 84      | 42      | 45     | 46     | 47     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |                               |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |                               |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 5"  | 5"      | 5"      | 5"      | 5"      | 8"      | 8"                            | 8"      | 3"      | 5"     | 5"     | 5"     |        |
| 20%乙二醇水溶液流量 20% Glycol Flow Volume (m³/h)   | 84.8  | 98.8    | 108.5   | 115.8   | 130.6   | 160.1   | 188.6                         | 215.5   | 25.8    | 61.4   | 67.5   | 92.0   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 67  | 44      | 64      | 76      | 79      | 81      | 84                            | 87      | 34      | 47     | 59     | 49     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0                          | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 2820  | 2980    | 3220    | 3400    | 3690    | 4150    | 4420                          | 4780    | 1570    | 2510   | 2820   | 3250   |        |
| 运行重量 Running Weight (Kg)                    | 3240  | 3400    | 3750    | 4000    | 4250    | 4730    | 5020                          | 5380    | 1990    | 3300   | 3700   | 4350   |        |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 120 140 154 164 185 228 266 306 42 90 98 130 |              |       |                |       |       |                |       |       |                |        |        |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
|---|--|--------------|-------|----------------|-------|-------|----------------|-------|-------|----------------|--------|--------|----------------|-------|--|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|
|   | 热回收量<br>Heat Reclaimed Volume                | X1000 Kcal/h | 120.3 | 140.1          | 153.8 | 164.2 | 185.1          | 226.9 | 267.3 | 305.5          | 36.8   | 87.1   | 95.6           | 130.4 |  |                |  |  |                |  |  |                |  |  |                |  |  |
|   |  | KW           | 140   | 163            | 179   | 191   | 215            | 264   | 311   | 355            | 43     | 101    | 111            | 152   |  |                |  |  |                |  |  |                |  |  |                |  |  |
| USRT  |  | 39.8         | 46.3  | 50.9           | 54.3  | 61.2  | 75.0           | 88.4  | 101.0 | 12.1           | 28.8   | 31.6   | 43.1           |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type                      |              |       |                |       |       |                |       |       |                |        |        |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |              |       |                |       |       |                |       |       |                |        |        |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器进出口管径 Dia.of pipe to Heat Recoverer(inch)       | 2-1/2"                                       | 3"           | 3"    | 3"             | 3"    | 4"    | 4"             | 4"    | 2"    | 2-1/2"         | 2-1/2" | 2-1/2" |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 24.1   | 26.0         | 30.8  | 32.8           | 37.0  | 45.4  | 53.5           | 61.1  | 7.3   | 17.4           | 19.1   | 26.1   |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 26   | 26           | 27    | 30             | 32    | 34    | 35             | 35    | 23    | 26             | 26     | 28     |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 整机重量 Total weight (Kg)                              | 2920   | 3080         | 3320  | 3500           | 3780  | 4710  | 5080           | 5470  | 1720  | 2790           | 3120   | 3700   |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 运行重量 Running Weight (Kg)                            | 3340   | 3500         | 3850  | 4100           | 4350  | 5320  | 5700           | 6100  | 2170  | 3600           | 3980   | 4750   |                |       |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 机组尺寸 Dimension L×W×H                                | 3600×1350×1650                               |              |       | 3400×1500×1700 |       |       | 4800×1850×1900 |       |       | 4600×1950×2000 |        |        | 4600×1950×2000 |       |  | 2600×1050×1650 |  |  | 3200×1100×1750 |  |  | 3200×1100×1950 |  |  | 3600×1350×2050 |  |  |

注:

- 名义制冷量基准: 蒸发侧出水溶液温度 5°C/0°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·C/KW.
- 海水溶液温度范围: 0°C ~ 10°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 5°C/0°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·C/KW.
- Chilled Liquid range: 0°C ~ 10°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.

出水温度 0°C Water outlet temperature 0°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 760DH 830DH 900DH 930DH 1090DH 1200DH 1270DH 1435DH 1760DH 2070DH 2370DH  |         |         |         |         |         |         |         |         |         |         |         |  |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|   | 760DHR 830DHR 900DHR 930DHR 1090DHR 1200DHR 1270DHR 1435DHR 1760DHR 2070DHR 2370DHR   |         |         |         |         |         |         |         |         |         |         |         |  |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 651.0   | 712.6   | 772.0   | 801.7   | 933.8   | 1025.5  | 1094.8  | 1234.0  | 1512.6  | 1762.3  | 2036.6  |  |
|   | KW  | 757     | 829     | 898     | 932     | 1086    | 1193    | 1273    | 1435    | 1759    | 2073    | 2369    |  |
|   | USRT  | 215.3   | 235.7   | 255.3   | 265.1   | 308.8   | 339.1   | 362.0   | 408.1   | 500.2   | 589.4   | 673.5   |  |
| 输入功率 Input Power                            | KW  | 204.8   | 221.6   | 236.4   | 246.0   | 283.4   | 314.4   | 333.8   | 375.4   | 458.0   | 536.6   | 607.0   |  |
| 压缩机输入功率×台数 Comp.Input Power/Qty (kw)        |   | 102.4×2 | 110.9×2 | 119.2×2 | 123.0×2 | 141.7×2 | 157.2×2 | 166.9×2 | 187.7×2 | 229.0×2 | 268.3×2 | 303.5×2 |  |
| 机组运行电流 Comp.Current (A)                     |   | 344.4   | 372.6   | 400.8   | 413.4   | 476.4   | 528.4   | 561.2   | 631.0   | 770.0   | 902.2   | 1020.6  |  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |         |         |         |         |  |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |  |
| 制冷回路 Number of Refrigeration Circuit        | 2   |         |         |         |         |         |         |         |         |         |         |         |  |
| 能量控制 Capacity Control (%)                   | 0.25,37.5,50,62.5,75,87.5,100   |         |         |         |         |         |         |         |         |         |         |         |  |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188   | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |  |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |  |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 4" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 6" x 2  | 6" x 2  | 8" x 2  | 8" x 2  |  |
| 冷却水流量 Cooling Water Flow (m³/h)             | 165.4   | 180.7   | 195.4   | 202.6   | 235.5   | 259.2   | 278.4   | 311.4   | 381.3   | 448.7   | 511.7   |         |  |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 48  | 49      | 52      | 55      | 62      | 64      | 70      | 77      | 80      | 83      | 89      |         |  |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |  |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 6"  | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |  |
| 20%乙二醇水溶液流量 20% Glycol Flow Volume (m³/h)   | 137.8   | 150.8   | 163.4   | 169.7   | 197.6   | 217.0   | 231.7   | 261.2   | 320.1   | 377.2   | 431.0   |         |  |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 52  | 58      | 57      | 61      | 66      | 86      | 83      | 80      | 77      | 85      | 92      |         |  |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |         |  |
| 整机重量 Total weight (Kg)                      | 4150  | 4390    | 4800    | 5340    | 5850    | 6310    | 6540    | 6790    | 8200    | 8900    | 9500    |         |  |
| 运行重量 Running Weight (Kg)                    | 5370  | 5710    | 6150    | 6390    | 6630    | 6880    | 7220    | 7570    | 9360    | 10200   | 10800   |         |  |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 196 214 230 240 280 308 328 370 456 532 612 |              |       |                |       |       |                |       |       |                |       |       |                |  |  |                |  |  |                |  |  |                |  |  |
|---|---|--------------|-------|----------------|-------|-------|----------------|-------|-------|----------------|-------|-------|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|
|   | 热回收量<br>Heat Reclaimed Volume               | X1000 Kcal/h | 195.3 | 213.8          | 231.6 | 240.5 | 280.1          | 307.6 | 328.4 | 370.2          | 453.8 | 534.7 | 611.0          |  |  |                |  |  |                |  |  |                |  |  |
|   |   | KW           | 227   | 249            | 269   | 280   | 326            | 358   | 382   | 431            | 528   | 622   | 711            |  |  |                |  |  |                |  |  |                |  |  |
| USRT  |   | 64.6         | 70.7  | 76.6           | 79.5  | 92.6  | 101.7          | 108.6 | 122.4 | 150.1          | 176.8 | 202.0 |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type                     |              |       |                |       |       |                |       |       |                |       |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1   |              |       |                |       |       |                |       |       |                |       |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器进出口管径 Dia.of pipe to Heat Recoverer(inch)       | 3"  | 3"           | 3"    | 3"             | 4"    | 4"    | 4"             | 4"    | 5"    | 5"             | 5"    |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 39.1  | 42.8         | 46.3  | 48.1           | 56.0  | 61.5  | 65.7           | 74.0  | 90.8  | 106.9          | 122.2 |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34  | 35           | 38    | 38             | 39    | 42    | 43             | 43    | 43    | 43             | 43    |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 整机重量 Total weight (Kg)                              | 4340  | 4970         | 5480  | 5950           | 6470  | 6990  | 7350           | 7600  | 8450  | 9380           | 9980  |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 运行重量 Running Weight (Kg)                            | 5520  | 6290         | 6580  | 6840           | 7190  | 7540  | 8020           | 8270  | 9620  | 10580          | 11200 |       |                |  |  |                |  |  |                |  |  |                |  |  |
| 机组尺寸 Dimension L×W×H                                | 4100×1450×2300                              |              |       | 3900×1050×2300 |       |       | 4500×1750×2450 |       |       | 4500×1750×2300 |       |       | 4800×1850×2550 |  |  | 4600×1850×2500 |  |  | 4700×2250×2900 |  |  | 5200×2250×2850 |  |  |

注:

- 名义制冷量基准: 蒸发侧出水溶液温度 5°C/0°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·C/KW.
- 海水溶液温度范围: 0°C ~ 10°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 5°C/0°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·C/KW.
- Chilled Liquid range: 0°C ~ 10°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度:0°C Water outlet temperature 0°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 制冷剂 Refrigerant R404A  |        |        |        |        |        |             |        |        |         |         |         |       |
|---|--|--------|--------|--------|--------|--------|-------------|--------|--------|---------|---------|---------|-------|
|   | 70SHY  | 90SHY  | 120SHY | 160SHY | 180SHY | 210SHY | 240SHY      | 270SHY | 290SHY | 340SHY  | 400SHY  | 425SHY  |       |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 60.2   | 80.0   | 104.0  | 138.4  | 154.8  | 178.8       | 207.2  | 227.9  | 245.9   | 292.3   | 341.4   | 363.7 |
|   | KW   | 79     | 93     | 121    | 161    | 180    | 208         | 241    | 265    | 286     | 340     | 397     | 423   |
|   | USRT   | 19.9   | 26.4   | 34.4   | 45.8   | 51.2   | 59.1        | 68.5   | 75.3   | 81.3    | 96.7    | 112.9   | 120.3 |
| 输入功率 Input Power                            | KW   | 25.0   | 32.8   | 41.7   | 54.5   | 61.3   | 69.8        | 80.7   | 87.8   | 96.2    | 113.6   | 133.4   | 141.5 |
| 压缩机输入功率/台数 Comp.Input Power/Qty (kw)        | 25.0×1   | 32.8×1 | 41.7×1 | 54.5×1 | 61.3×1 | 69.8×1 | 80.7×1      | 87.8×1 | 96.2×1 | 113.6×1 | 133.4×1 | 141.5×1 |       |
| 机组运行电流 Comp.Current (A)                     | 42.1   | 55.1   | 70.1   | 91.7   | 103.1  | 117.4  | 135.7       | 147.6  | 161.7  | 191.0   | 224.3   | 237.8   |       |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |        |        |        |        |        |             |        |        |         |         |         |       |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |             |        |        |         |         |         |       |
| 制冷回路 Number of Refrigeration Circuit        | 1  |        |        |        |        |        |             |        |        |         |         |         |       |
| 能量控制 Capacity Control (%)                   | 0.66,100   |        |        |        |        |        | 0.50,75,100 |        |        |         |         |         |       |
| 制冷剂充注量 Refrigerant Charge (kg)              | 18   | 25     | 32     | 42     | 46     | 55     | 62          | 68     | 75     | 90      | 102     | 110     |       |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |        |        |        |        |        |             |        |        |         |         |         |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |        |        |        |        |        |             |        |        |         |         |         |       |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 2"   | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 5"      | 5"      | 5"      |       |
| 冷却水流量 Cooling Water Flow (m³/h)             | 16.3   | 21.6   | 28     | 37.1   | 41.5   | 47.8   | 55.3        | 60.7   | 65.7   | 78.0    | 91.2    | 97.1    |       |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 39   | 45     | 43     | 50     | 50     | 49     | 47          | 48     | 48     | 49      | 48      | 49      |       |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |        |        |        |        |        |             |        |        |         |         |         |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |        |        |        |        |        |             |        |        |         |         |         |       |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 2"   | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 4"      | 5"      | 5"      |       |
| 20%乙二醇水溶液流量 20% Glycol Flow Volume (m³/h)   | 12.7   | 16.9   | 22.0   | 29.3   | 32.8   | 37.9   | 43.9        | 48.2   | 52.0   | 61.9    | 72.2    | 77.0    |       |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 24   | 31     | 35     | 39     | 50     | 49     | 47          | 73     | 70     | 47      | 52      | 69      |       |
| 运转噪音 Running Noise dB(A)                    | 73.1   | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0        | 75.0   | 75.0   | 75.0    | 75.0    | 75.0    |       |
| 整机重量 Total weight (Kg)                      | 980  | 1010   | 1200   | 1350   | 1540   | 1680   | 1800        | 1920   | 2030   | 2080    | 2520    | 2730    |       |
| 运行重量 Running Weight (Kg)                    | 1080   | 1120   | 1360   | 1530   | 1700   | 1850   | 1980        | 2080   | 2240   | 2660    | 2800    | 3020    |       |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 21                      | 28            | 35            | 45            | 49            | 58            | 65            | 71            | 78            | 95             | 107            | 115            |       |
|---|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 18.1          | 24.0          | 31.2          | 41.5          | 46.4          | 53.7          | 62.2          | 68.4          | 73.8           | 87.7           | 102.4          | 109.1 |
|   | KW                      | 21            | 28            | 36            | 48            | 54            | 62            | 72            | 80            | 86             | 102            | 119            | 127   |
|   | USRT                    | 6.0           | 7.9           | 10.3          | 13.7          | 15.4          | 17.7          | 20.6          | 22.6          | 24.4           | 29.0           | 33.9           | 36.1  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |               |               |               |               |               |               |               |               |                |                |                |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |               |               |               |               |               |               |               |               |                |                |                |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 1"                      | 1-1/2"        | 1-1/2"        | 1-1/2"        | 1-1/2"        | 2"            | 2"            | 2"            | 2"            | 2"             | 2-1/2"         | 2-1/2"         |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 3.6                     | 4.8           | 6.2           | 8.3           | 9.3           | 10.7          | 12.4          | 13.7          | 14.8          | 17.5           | 20.5           | 21.8           |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21                      | 24            | 23            | 24            | 27            | 26            | 26            | 26            | 26            | 26             | 27             | 26             |       |
| 整机重量 Total weight (Kg)                              | 1030                    | 1060          | 1250          | 1400          | 1590          | 1730          | 1880          | 2020          | 2110          | 2460           | 2620           | 2830           |       |
| 运行重量 Running Weight (Kg)                            | 1130                    | 1170          | 1410          | 1580          | 1750          | 1900          | 2060          | 2160          | 2320          | 2740           | 2900           | 3120           |       |
| 机组尺寸 Dimension L*W*H                                | 2320*850*1500           | 2250*800*1500 | 2350*800*1600 | 2530*800*1600 | 2530*800*1600 | 2690*900*1800 | 2690*900*1800 | 2990*900*1880 | 2990*900*1880 | 3100*1000*1900 | 3300*1000*1800 | 3000*1000*1800 |       |

注:

- 名义制冷量基准: 蒸发器进出口水温差 5°C/0°C, 冷凝器进出口水温差 30°C/35°C, 污垢系数: 0.086 m<sup>2</sup>·°C/KW.
- 非水溶液温度范围: 0°C ~ 10°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 5°C/0°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.086 m<sup>2</sup>·°C/KW.
- Chilled Liquid range: 0°C ~ 10°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.

出水温度:0°C Water outlet temperature 0°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 制冷剂 Refrigerant R404A  |         |         |         |         |         |                                |         |         |        |        |        |        |
|---|--|---------|---------|---------|---------|---------|--------------------------------|---------|---------|--------|--------|--------|--------|
|   | 440SHY   | 515SHY  | 565SHY  | 610SHY  | 680SHY  | 850SHY  | 1000SHY                        | 1120SHY | 140DHY  | 320DHY | 360DHY | 480DHY |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 360.9   | 442.8   | 485.8   | 521.9   | 583.0   | 730.0                          | 859.8   | 959.6   | 119.5  | 276.9  | 310.4  | 413.6  |
|   | KW   | 443     | 515     | 565     | 607     | 678     | 849                            | 1000    | 1116    | 139    | 322    | 361    | 481    |
|   | USRT   | 126.0   | 146.4   | 160.6   | 172.6   | 192.8   | 241.1                          | 284.3   | 317.3   | 39.5   | 91.6   | 102.6  | 136.8  |
| 输入功率 Input Power                            | KW   | 149.0   | 171.7   | 188.5   | 200.8   | 223.1   | 283.9                          | 332.4   | 367.4   | 50.0   | 109.0  | 122.6  | 161.4  |
| 压缩机输入功率/台数 Comp.Input Power/Qty (kw)        | 149.0×1  | 171.7×1 | 188.5×1 | 200.8×1 | 223.1×1 | 283.9×1 | 332.4×1                        | 367.4×1 | 367.4×1 | 25.0×2 | 54.5×2 | 61.3×2 | 80.7×2 |
| 机组运行电流 Comp.Current (A)                     | 250.5  | 288.6   | 317.0   | 337.6   | 375.1   | 477.3   | 558.9                          | 617.7   | 642.2   | 183.4  | 206.2  | 271.4  |        |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |                                |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1  |         |         |         |         |         | 2                              |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0.50,75,100  |         |         |         |         |         | 0, 25,37,5,50,62,5,75,87,5,100 |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115  | 134     | 148     | 158     | 177     | 218     | 256                            | 292     | 36      | 84     | 92     | 124    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 5"   | 5"      | 5"      | 5"      | 6"      | 6"      | 8"                             | 8"      | 3"      | 4"     | 5"     | 5"     |        |
| 冷却水流量 Cooling Water Flow (m³/h)             | 101.8  | 118.1   | 129.6   | 138.9   | 155.0   | 194.8   | 229.1                          | 255.1   | 32.5    | 74.1   | 83.2   | 110.5  |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 55   | 62      | 64      | 65      | 67      | 70      | 80                             | 84      | 42      | 45     | 46     | 47     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 5"   | 5"      | 5"      | 5"      | 5"      | 6"      | 8"                             | 8"      | 3"      | 5"     | 5"     | 5"     |        |
| 20%乙二醇水溶液流量 20% Glycol Flow Volume (m³/h)   | 80.6   | 93.7    | 102.8   | 110.5   | 123.4   | 154.5   | 182.0                          | 203.1   | 25.3    | 58.6   | 65.7   | 87.5   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 87   | 44      | 64      | 76      | 79      | 81      | 84                             | 87      | 34      | 47     | 59     | 49     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0                           | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 2820   | 2980    | 3220    | 3400    | 3680    | 4150    | 4420                           | 4780    | 1570    | 2510   | 2820   | 3250   |        |
| 运行重量 Running Weight (Kg)                    | 3240   | 3400    | 3750    | 4000    | 4250    | 4730    | 5020                           | 5380    | 1990    | 3300   | 3700   | 4350   |        |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 120                     | 140   | 154   | 164   | 185            | 228   | 266   | 306            | 42             | 90             | 98             | 130            |                |                |
|---|-------------------------|-------|-------|-------|----------------|-------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 114.3 | 132.8 | 145.7 | 156.6          | 174.9 | 219.0 | 258.0          | 287.9          | 35.9           | 83.1           | 93.1           | 124.1          |                |
|   | KW                      | 133   | 155   | 170   | 182            | 203   | 255   | 300            | 335            | 42             | 97             | 108            | 144            |                |
|   | USRT                    | 37.8  | 43.9  | 48.2  | 51.8           | 57.8  | 72.4  | 85.3           | 95.2           | 11.9           | 27.5           | 30.8           | 41.0           |                |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |       |       |       |                |       |       |                |                |                |                |                |                |                |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |       |       |       |                |       |       |                |                |                |                |                |                |                |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 2-1/2"                  | 3"    | 3"    | 3"    | 3"             | 4"    | 4"    | 4"             | 2"             | 2-1/2"         | 2-1/2"         | 2-1/2"         |                |                |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 22.9                    | 26.6  | 29.1  | 31.3  | 35.0           | 43.8  | 51.6  | 57.6           | 7.2            | 16.6           | 18.6           | 24.8           |                |                |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 26                      | 26    | 27    | 30    | 32             | 34    | 35    | 35             | 23             | 26             | 26             | 28             |                |                |
| 整机重量 Total weight (Kg)                              | 2920                    | 3080  | 3320  | 3500  | 3780           | 4710  | 5080  | 5470           | 1720           | 2790           | 3120           | 3700           |                |                |
| 运行重量 Running Weight (Kg)                            | 3340                    | 3500  | 3850  | 4100  | 4350           | 5320  | 5700  | 6100           | 2170           | 3600           | 3980           | 4750           |                |                |
| 机组尺寸 Dimension L*W*H                                | 3600*1000*1650          |       |       |       | 3400*1000*1700 |       |       | 4800*1850*1000 | 4600*1850*2000 | 4600*1850*2000 | 2600*1000*1850 | 3200*1100*1700 | 3500*1100*1900 | 2400*1200*2000 |

注:

- 名义制冷量基准: 蒸发器进出口水温差 5°C/0°C, 冷凝器进出口水温差 30°C/35°C, 污垢系数: 0.086 m<sup>2</sup>·°C/KW.
- 非水溶液温度范围: 0°C ~ 10°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 5°C/0°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.086 m<sup>2</sup>·°C/KW.
- Chilled Liquid range: 0°C ~ 10°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度:0°C Water outlet temperature 0°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 720DHY  | 800DHY  | 850DHY  | 890DHY  | 1030DHY | 1130DHY | 1215DHY | 1360DHY | 1700DHY | 2000DHY | 2230DHY |         |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |   |         |         |         |         |         |         |         |         |         |         | 720DHY  |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 617.4   | 683.6   | 726.3   | 761.8   | 885.6   | 972.5   | 1044.7  | 1166.0  | 1490.9  | 1719.7  | 1920.0  |
|   | KW  | 718     | 795     | 847     | 886     | 1030    | 1131    | 1215    | 1356    | 1699    | 2000    | 2233    |
|   | USRT  | 204.2   | 226.0   | 240.8   | 251.9   | 292.9   | 321.6   | 345.5   | 385.6   | 483.1   | 568.7   | 634.9   |
| 输入功率 Input Power                            | KW  | 249.0   | 266.8   | 283.0   | 298.0   | 343.4   | 377.0   | 401.6   | 446.2   | 567.8   | 664.8   | 734.8   |
| 压缩机输入功率及台数 Comp.Input Power/Qty (kw)        | 120.0x2   | 133.4x2 | 141.5x2 | 149.0x2 | 171.7x2 | 188.5x2 | 200.6x2 | 223.1x2 | 283.9x2 | 332.4x2 | 367.4x2 | 423.4x2 |
| 机组运行电流 Comp.Current (A)                     | 403.4   | 448.6   | 475.6   | 501.0   | 577.2   | 634.0   | 675.2   | 750.2   | 954.6   | 1117.8  | 1235.4  |         |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 2   |         |         |         |         |         |         |         |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0, 25, 37.5, 50, 62.5, 75, 87.5, 100  |         |         |         |         |         |         |         |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188   | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)   | 4" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 6" x 2  | 6" x 2  | 8" x 2  | 8" x 2  |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 164.7   | 182.6   | 194.3   | 203.6   | 236.2   | 259.3   | 278.0   | 309.9   | 389.8   | 458.3   | 510.4   |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 48  | 49      | 52      | 55      | 62      | 64      | 70      | 77      | 80      | 83      | 89      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  | 6"  | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |
| 20%乙二醇水溶液流量 20% Glycol Flow Volume (m³/h)   | 130.7   | 144.7   | 154.1   | 161.2   | 187.4   | 205.8   | 221.1   | 246.8   | 309.2   | 364.0   | 406.4   |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 52  | 58      | 57      | 61      | 66      | 66      | 83      | 80      | 77      | 85      | 92      |         |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 4150  | 4390    | 4800    | 5340    | 5850    | 6310    | 6540    | 6790    | 8200    | 8900    | 9500    |         |
| 运行重量 Running Weight (Kg)                    | 5370  | 5710    | 6150    | 6390    | 6830    | 6880    | 7220    | 7570    | 9360    | 10200   | 10800   |         |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 196                     | 214            | 230            | 240            | 280            | 308            | 328            | 370            | 456            | 532   | 612   |       |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 185.2          | 205.1          | 218.5          | 228.5          | 265.7          | 291.7          | 313.4          | 349.8          | 436.3 | 515.9 | 576.0 |
|   | KW                      | 215            | 239            | 254            | 266            | 309            | 339            | 365            | 407            | 510   | 600   | 670   |
|   | USRT                    | 61.2           | 67.8           | 72.2           | 75.6           | 87.9           | 96.5           | 103.6          | 115.7          | 144.9 | 170.6 | 190.5 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |       |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |       |       |       |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 3"                      | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 4"             | 5"             | 5"    | 5"    |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 37.0                    | 41.0           | 43.7           | 45.7           | 53.1           | 58.3           | 62.7           | 70.0           | 87.7           | 103.2 | 115.2 |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34                      | 35             | 38             | 38             | 39             | 42             | 43             | 43             | 43             | 43    | 43    |       |
| 整机重量 Total weight (Kg)                              | 4340                    | 4970           | 5480           | 5950           | 6470           | 6990           | 7350           | 7600           | 8450           | 9380  | 9980  |       |
| 运行重量 Running Weight (Kg)                            | 5520                    | 6290           | 6580           | 6840           | 7190           | 7540           | 8020           | 8270           | 9620           | 10580 | 11200 |       |
| 机组尺寸 Dimension L×W×H                                | 4100×1800×2200          | 3300×1650×2300 | 4000×1750×2450 | 4000×1750×2500 | 4600×1850×2550 | 4600×1850×2600 | 4700×1850×2700 | 4700×2250×2700 | 5200×2250×2900 |       |       |       |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 5°C/0°C, 冷凝器进口温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW.
- 冷冻水溶液温度范围: 0°C ~ 10°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 5°C/0°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW.
- Chilled Liquid range: 0°C ~ 10°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -5°C Water outlet temperature -5°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 70SM  | 90SM   | 120SM  | 160SM  | 175SM  | 205SM  | 240SM  | 260SM  | 280SM  | 340SM   | 390SM   | 420SM   |       |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-------|
|   |   |        |        |        |        |        |        |        |        |         |         |         | 70SMR |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 57.4   | 78.2   | 102.7  | 136.2  | 149.5  | 176.2  | 203.7  | 220.5  | 242.6   | 288.8   | 333.9   | 361.6 |
|   | KW  | 67     | 91     | 119    | 158    | 174    | 205    | 237    | 256    | 282     | 336     | 388     | 421   |
|   | USRT  | 19.0   | 25.8   | 33.9   | 45.0   | 49.4   | 58.3   | 67.4   | 72.9   | 80.2    | 95.5    | 110.4   | 119.6 |
| 输入功率 Input Power                            | KW  | 23.0   | 30.3   | 38.0   | 50.7   | 55.2   | 62.2   | 72.0   | 78.5   | 87.3    | 101.4   | 116.0   | 124.8 |
| 压缩机输入功率及台数 Comp.Input Power/Qty (kw)        | 23.0x1  | 30.3x1 | 38.0x1 | 50.7x1 | 55.2x1 | 62.2x1 | 72.0x1 | 78.5x1 | 87.3x1 | 101.4x1 | 116.0x1 | 124.8x1 |       |
| 机组运行电流 Comp.Current (A)                     | 38.6  | 50.9   | 63.8   | 85.2   | 92.8   | 104.5  | 121.0  | 132.0  | 146.8  | 170.4   | 195.0   | 209.9   |       |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |        |        |        |        |        |        |        |        |         |         |         |       |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |        |        |        |         |         |         |       |
| 制冷回路 Number of Refrigeration Circuit        | 1   |        |        |        |        |        |        |        |        |         |         |         |       |
| 能量控制 Capacity Control (%)                   | 0, 66, 100  |        |        |        |        |        |        |        |        |         |         |         |       |
| 制冷剂充注量 Refrigerant Charge (kg)              | 21  | 28     | 35     | 45     | 49     | 55     | 62     | 68     | 75     | 90      | 102     | 110     |       |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |        |        |        |        |        |        |        |        |         |         |         |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |        |        |        |         |         |         |       |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)   | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 5"      | 5"      | 5"      |       |
| 冷却水流量 Cooling Water Flow (m³/h)             | 15.4  | 20.8   | 27.1   | 36.0   | 39.4   | 45.9   | 53.1   | 57.6   | 63.5   | 75.2    | 86.7    | 93.8    |       |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 37  | 42     | 41     | 48     | 47     | 47     | 45     | 45     | 45     | 46      | 46      | 46      |       |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |        |        |        |        |        |        |        |        |         |         |         |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |        |        |        |         |         |         |       |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"      | 5"      | 5"      |       |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 12.5  | 17.0   | 22.3   | 29.6   | 32.5   | 38.3   | 44.3   | 47.9   | 52.8   | 62.8    | 72.6    | 78.6    |       |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 25  | 32     | 37     | 41     | 52     | 63     | 70     | 77     | 73     | 49      | 80      | 83      |       |
| 运转噪音 Running Noise dB(A)                    | 73.1  | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0    | 75.0    |       |
| 整机重量 Total weight (Kg)                      | 1040  | 1070   | 1260   | 1410   | 1600   | 1690   | 1920   | 2040   | 2150   | 2500    | 2640    | 2850    |       |
| 运行重量 Running Weight (Kg)                    | 1140  | 1180   | 1420   | 1590   | 1760   | 1860   | 2100   | 2200   | 2360   | 2780    | 2920    | 3140    |       |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 21                      | 28            | 35            | 45            | 49            | 58            | 65            | 71             | 78             | 95             | 107            | 115   |       |
|---|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|-------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 17.2          | 23.4          | 30.8          | 40.9          | 44.9          | 52.9          | 61.1           | 66.1           | 72.8           | 86.6           | 100.2 | 108.5 |
|   | KW                      | 20            | 27            | 36            | 48            | 52            | 61            | 71             | 77             | 85             | 101            | 116   | 126   |
|   | USRT                    | 5.7           | 7.8           | 10.2          | 13.5          | 14.8          | 17.5          | 20.2           | 21.9           | 24.1           | 28.7           | 33.1  | 35.9  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |               |               |               |               |               |               |                |                |                |                |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |               |               |               |               |               |               |                |                |                |                |       |       |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 1"                      | 1-1/2"        | 1-1/2"        | 1-1/2"        | 1-1/2"        | 2"            | 2"            | 2"             | 2"             | 2"             | 3"             | 3"    |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 3.4                     | 4.7           | 6.2           | 8.2           | 9.0           | 10.6          | 12.2          | 13.2           | 14.6           | 17.3           | 30.8           | 34.7  |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21                      | 24            | 23            | 28            | 27            | 27            | 26            | 26             | 26             | 26             | 30             | 32    |       |
| 整机重量 Total weight (Kg)                              | 1040                    | 1070          | 1260          | 1410          | 1600          | 1740          | 2000          | 2140           | 2230           | 2580           | 3640           | 3920  |       |
| 运行重量 Running Weight (Kg)                            | 1140                    | 1180          | 1420          | 1590          | 1760          | 1910          | 2180          | 2280           | 2440           | 2860           | 4240           | 4490  |       |
| 机组尺寸 Dimension L×W×H                                | 2200×800×1500           | 2250×800×1500 | 2350×800×1550 | 2550×800×1600 | 2600×800×1600 | 2800×900×1600 | 2900×900×1650 | 2950×1200×1600 | 3000×1300×1600 | 3000×1500×1600 | 3000×1500×1600 |       |       |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 0°C/-5°C, 冷凝器进口温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW.
- 冷冻水溶液温度范围: -5°C ~ 5°C
- 冷却水温度范围: 15°C ~ 40°C
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 0°C/-5°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW.
- Chilled Liquid range: -5°C ~ 5°C
- Cooling water range: 15°C ~ 40°C
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -5°C Water outlet temperature -5°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 440SM  | 510SM   | 560SM   | 600SM   | 670SM   | 825SM   | 970SM   | 1110SM  | 135DM   | 320DM  | 350DM  | 475DM  |        |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
|   | 440SMR   | 510SMR  | 560SMR  | 600SMR  | 670SMR  | 825SMR  | 970SMR  | 1110SMR | 135DMR  | 320DMR | 350DMR | 475DMR |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 375.5   | 437.2   | 480.2   | 512.7   | 577.9   | 708.3   | 834.6   | 953.7   | 114.7  | 272.6  | 299.1  | 407.4  |
|   | KW   | 437     | 509     | 559     | 596     | 672     | 824     | 971     | 1109    | 133    | 317    | 348    | 474    |
|   | USRT   | 124.2   | 144.6   | 158.8   | 169.5   | 191.1   | 234.2   | 276.0   | 315.4   | 37.9   | 90.1   | 98.9   | 134.7  |
| 输入功率 Input Power                            | KW   | 128.8   | 148.4   | 164.7   | 174.9   | 196.6   | 239.9   | 281.8   | 318.0   | 46.0   | 101.4  | 110.4  | 144.0  |
| 压缩机输入功率/台数 Comp. Input Power/Qty (kw)       |  | 128.8x1 | 148.4x1 | 164.7x1 | 174.9x1 | 196.6x1 | 239.9x1 | 281.8x1 | 318.0x1 | 23.0x2 | 50.7x2 | 55.2x2 | 72.0x2 |
| 机组运行电流 Comp.Current (A)                     |  | 216.6   | 249.6   | 276.8   | 294.0   | 330.6   | 403.3   | 472.6   | 534.7   | 77.2   | 170.4  | 185.6  | 242.0  |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |         |         |         |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1  |         |         |         |         |         | 2       |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0,50,75,100  |         |         |         |         |         |         |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115  | 134     | 148     | 158     | 177     | 218     | 256     | 292     | 36      | 84     | 92     | 124    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 5"   | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 8"      | 3"      | 4"     | 5"     | 5"     |        |
| 冷却水流量 Cooling Water Flow (m³/h)             | 97.2   | 113.0   | 124.4   | 132.6   | 149.4   | 182.9   | 215.4   | 245.4   | 30.9    | 71.9   | 78.8   | 106.2  |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 53   | 59      | 61      | 62      | 64      | 67      | 76      | 80      | 40      | 43     | 44     | 45     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 5"   | 5"      | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 3"      | 5"     | 5"     | 5"     |        |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 81.7   | 95.1    | 104.4   | 111.5   | 125.7   | 154.1   | 181.5   | 207.4   | 24.9    | 59.3   | 65.0   | 88.6   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 85   | 88      | 67      | 60      | 83      | 85      | 88      | 91      | 36      | 49     | 62     | 51     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 2940   | 3120    | 3360    | 3540    | 3820    | 4250    | 4520    | 4680    | 1580    | 2520   | 2830   | 3480   |        |
| 运行重量 Running Weight (Kg)                    | 3370   | 3540    | 3890    | 4140    | 4390    | 4830    | 5120    | 5480    | 2010    | 3320   | 3740   | 4580   |        |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 120                     | 140   | 154   | 164            | 185   | 228   | 266            | 306   | 42     | 90             | 98     | 130  |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
|---|-------------------------|-------|-------|----------------|-------|-------|----------------|-------|--------|----------------|--------|------|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 112.6 | 131.2 | 144.1          | 153.8 | 173.4 | 212.5          | 250.4 | 286.1  | 34.4           | 81.7   | 89.7 | 122.2          |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
|   | KW                      | 131   | 153   | 168            | 179   | 202   | 247            | 291   | 333    | 40             | 95     | 104  | 142            |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
|   | USRT                    | 37.3  | 43.4  | 47.6           | 50.9  | 57.3  | 70.3           | 82.8  | 94.6   | 11.4           | 27.0   | 29.7 | 40.4           |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |       |       |                |       |       |                |       |        |                |        |      |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |       |       |                |       |       |                |       |        |                |        |      |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 4"                      | 4"    | 3"    | 3"             | 3"    | 4"    | 4"             | 2"    | 2-1/2" | 2-1/2"         | 2-1/2" |      |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 42.5                    | 50.1  | 28.8  | 30.8           | 34.7  | 42.5  | 50.1           | 57.2  | 6.9    | 16.3           | 17.9   | 24.4 |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34                      | 35    | 27    | 30             | 32    | 34    | 35             | 35    | 23     | 26             | 26     | 28   |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 整机重量 Total weight (Kg)                              | 4810                    | 5180  | 3460  | 3640           | 3920  | 4810  | 5180           | 5570  | 1730   | 2800           | 3130   | 3930 |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 运行重量 Running Weight (Kg)                            | 5420                    | 5800  | 3990  | 4240           | 4490  | 5420  | 5800           | 6200  | 2180   | 3610           | 3990   | 4980 |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 机组尺寸 Dimension L×W×H                                | 3000×1500×1850          |       |       | 3650×1550×1700 |       |       | 4600×1850×1750 |       |        | 4830×1900×2000 |        |      | 4810×1900×2000 |  |  | 3600×1550×1680 |  |  | 3200×1100×1750 |  |  | 3300×1100×1850 |  |  | 3480×1350×2050 |  |  |

注:

- 名义制冷量基准: 蒸发器进出口水温差 0°C/-5°C; 冷凝器进出口水温差 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 准水溶液温度范围: -5°C ~ 5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 0°C/-5°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -5°C ~ 5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -5°C Water outlet temperature -5°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 710DM  | 780DM   | 840DM   | 870DM   | 1020DM  | 1120DM  | 1190DM  | 1345DM  | 1650DM  | 1940DM  | 2220DM  |         |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | 710DMR   | 780DMR  | 840DMR  | 870DMR  | 1020DMR | 1120DMR | 1190DMR | 1345DMR | 1650DMR | 1940DMR | 2220DMR |         |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 610.0   | 667.8   | 723.2   | 751.0   | 874.5   | 960.4   | 1025.5  | 1155.8  | 1416.8  | 1669.1  | 1907.5  |
|   | KW   | 709     | 777     | 841     | 873     | 1017    | 1117    | 1193    | 1344    | 1648    | 1941    | 2218    |
|   | USRT   | 201.7   | 220.8   | 239.2   | 248.3   | 289.2   | 317.6   | 339.1   | 382.2   | 468.5   | 551.9   | 630.8   |
| 输入功率 Input Power                            | KW   | 214.0   | 232.0   | 249.6   | 257.6   | 296.8   | 329.4   | 349.8   | 393.2   | 479.8   | 563.6   | 636.0   |
| 压缩机输入功率/台数 Comp. Input Power/Qty (kw)       |  | 107.0x2 | 116.0x2 | 124.8x2 | 128.8x2 | 148.4x2 | 164.7x2 | 174.9x2 | 196.6x2 | 239.9x2 | 281.8x2 | 318.0x2 |
| 机组运行电流 Comp.Current (A)                     |  | 360.0   | 390.0   | 419.8   | 433.2   | 499.2   | 553.6   | 588.0   | 661.2   | 806.6   | 945.2   | 1069.4  |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |         |         |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 2  |         |         |         |         |         |         |         |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0, 25, 37.5, 50, 62.5, 75, 87.5, 100   |         |         |         |         |         |         |         |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188  | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |         |         |         |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 4" x 2   | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 6" x 2  | 6" x 2  | 8" x 2  | 8" x 2  |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 158.8  | 173.4   | 187.6   | 194.5   | 225.9   | 248.7   | 265.2   | 298.8   | 365.9   | 430.7   | 490.9   |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 46   | 46      | 49      | 53      | 59      | 61      | 67      | 73      | 76      | 79      | 84      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |         |         |         |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 6"   | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 132.7  | 145.2   | 157.3   | 163.3   | 190.2   | 208.9   | 223.0   | 251.4   | 308.1   | 363.0   | 414.8   |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 55   | 61      | 60      | 64      | 70      | 90      | 87      | 84      | 81      | 89      | 97      |         |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 4380   | 4620    | 5030    | 5570    | 6120    | 6580    | 6810    | 7060    | 8800    | 9500    | 10100   |         |
| 运行重量 Running Weight (Kg)                    | 5600   | 5940    | 6380    | 6620    | 6900    | 7150    | 7490    | 7840    | 9960    | 10800   | 11400   |         |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 196                     | 214   | 230   | 240            | 280   | 308   | 328            | 370   | 456   | 532            | 612   |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
|---|-------------------------|-------|-------|----------------|-------|-------|----------------|-------|-------|----------------|-------|-------|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 183.0 | 200.3 | 217.0          | 225.3 | 262.3 | 286.1          | 307.6 | 346.7 | 425.0          | 500.7 | 572.2 |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
|   | KW                      | 213   | 233   | 252            | 262   | 305   | 335            | 358   | 403   | 494            | 582   | 666   |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
|   | USRT                    | 60.5  | 66.2  | 71.7           | 74.5  | 86.8  | 95.3           | 101.7 | 114.7 | 140.5          | 165.6 | 189.2 |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |       |       |                |       |       |                |       |       |                |       |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |       |       |                |       |       |                |       |       |                |       |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 3"                      | 3"    | 3"    | 3"             | 4"    | 4"    | 4"             | 4"    | 5"    | 5"             | 5"    |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 36.6                    | 40.1  | 43.4  | 45.1           | 52.5  | 57.6  | 61.5           | 69.3  | 85.0  | 106.1          | 114.4 |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34                      | 35    | 38    | 38             | 39    | 42    | 43             | 43    | 43    | 43             | 43    |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 整机重量 Total weight (Kg)                              | 4570                    | 5200  | 5690  | 6190           | 6740  | 7260  | 7620           | 7870  | 9050  | 9980           | 10580 |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 运行重量 Running Weight (Kg)                            | 5750                    | 6520  | 6810  | 7070           | 7460  | 7810  | 8290           | 8540  | 10220 | 11180          | 11800 |       |                |  |  |                |  |  |                |  |  |                |  |  |                |  |  |
| 机组尺寸 Dimension L×W×H                                | 4100×1950×2290          |       |       | 3800×1950×2300 |       |       | 4500×1950×2300 |       |       | 4500×1950×2500 |       |       | 4800×2000×2950 |  |  | 4800×2000×3000 |  |  | 3800×2250×2650 |  |  | 4700×2250×2810 |  |  | 5200×2250×3900 |  |  |

注:

- 名义制冷量基准: 蒸发器进出口水温差 0°C/-5°C; 冷凝器进出口水温差 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 准水溶液温度范围: -5°C ~ 5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 0°C/-5°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -5°C ~ 5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -5°C Water outlet temperature -5°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 70SMY 95SMY 120SMY 160SMY 180SMY 210SMY 240SMY 270SMY 290SMY 345SMY 400SMY 430SMY  |        |        |        |        |        |        |        |        |         |         |         |         |
|---|--|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
|   | 70SMY  | 95SMY  | 120SMY | 160SMY | 180SMY | 210SMY | 240SMY | 270SMY | 290SMY | 345SMY  | 400SMY  | 430SMY  |         |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 60.2   | 80.8   | 104.9  | 140.2  | 156.5  | 180.6  | 208.9  | 230.4  | 248.5   | 294.9   | 344.8   | 367.2   |
|   | KW   | 70     | 94     | 122    | 163    | 182    | 210    | 243    | 268    | 289     | 343     | 401     | 427     |
|   | USRT   | 19.9   | 26.7   | 34.7   | 46.3   | 51.7   | 59.7   | 69.1   | 76.2   | 82.2    | 97.5    | 114.0   | 121.4   |
| 输入功率 Input Power                            | KW   | 27.9   | 36.6   | 46.5   | 60.8   | 68.4   | 77.9   | 90.0   | 98.0   | 107.3   | 126.7   | 148.8   | 157.8   |
| 压缩机输入功率/台数 Comp.Input Power/Qty (kw)        |  | 27.9x1 | 36.6x1 | 46.5x1 | 60.8x1 | 68.4x1 | 77.9x1 | 90.0x1 | 98.0x1 | 107.3x1 | 126.7x1 | 148.8x1 | 157.8x1 |
| 机组运行电流 Comp.Current (A)                     |  | 46.9   | 61.5   | 78.2   | 102.3  | 115.0  | 131.0  | 151.4  | 164.7  | 180.4   | 213.1   | 250.2   | 265.3   |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |        |        |        |        |        |        |        |        |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |        |        |        |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 1  |        |        |        |        |        |        |        |        |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0.66,100   |        |        |        |        |        |        |        |        |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 21   | 28     | 35     | 45     | 49     | 55     | 62     | 68     | 76     | 90      | 102     | 110     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |        |        |        |        |        |        |        |        |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |        |        |        |        |        |        |        |        |         |         |         |         |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 2"   | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 5"      | 5"      | 5"      |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 16.8   | 22.5   | 29.0   | 36.5   | 43.1   | 49.5   | 57.3   | 62.9   | 68.2   | 80.8    | 94.5    | 100.6   |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 37   | 42     | 41     | 48     | 47     | 47     | 45     | 45     | 45     | 46      | 46      | 46      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |        |        |        |        |        |        |        |        |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |        |        |        |        |        |        |        |        |         |         |         |         |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 2"   | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"      | 5"      | 5"      |         |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 13.1   | 17.6   | 22.8   | 30.5   | 34.0   | 39.3   | 45.4   | 50.1   | 54.0   | 64.1    | 75.0    | 79.9    |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 25   | 32     | 37     | 41     | 52     | 63     | 70     | 77     | 73     | 49      | 80      | 83      |         |
| 运转噪音 Running Noise dB(A)                    | 73.1   | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 1040   | 1070   | 1280   | 1410   | 1600   | 1690   | 1920   | 2040   | 2160   | 2500    | 2640    | 2850    |         |
| 运行重量 Running Weight (Kg)                    | 1140   | 1180   | 1420   | 1590   | 1760   | 1860   | 2100   | 2200   | 2360   | 2780    | 2920    | 3140    |         |

### 热回收技术参数 Heat Recovery

|   |                         |               |               |               |               |               |               |                |                |                |                |                |       |
|---|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------|
| 制冷剂充注量 Refrigerant charge(kg)                       | 21                      | 28            | 35            | 45            | 49            | 58            | 65            | 71             | 78             | 95             | 107            | 115            |       |
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 18.1          | 24.2          | 31.5          | 42.0          | 46.9          | 54.2          | 62.7           | 69.1           | 74.5           | 88.5           | 103.4          | 110.1 |
|   | KW                      | 21            | 28            | 37            | 49            | 55            | 63            | 73             | 80             | 87             | 103            | 120            | 128   |
|   | USRT                    | 6.0           | 8.0           | 10.4          | 13.9          | 15.5          | 17.9          | 20.7           | 22.9           | 24.7           | 29.3           | 34.2           | 36.4  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |               |               |               |               |               |               |                |                |                |                |                |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |               |               |               |               |               |               |                |                |                |                |                |       |
| 热回收器进出口管径 Dia.of pipe to Heat Recoverer(inch)       | 1"                      | 1-1/2"        | 1-1/2"        | 1-1/2"        | 1-1/2"        | 2"            | 2"            | 2"             | 2"             | 2"             | 3"             | 3"             |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 3.6                     | 4.8           | 6.3           | 8.4           | 9.4           | 10.8          | 12.5          | 13.8           | 14.9           | 17.7           | 31.6           | 35.3           |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21                      | 24            | 23            | 28            | 27            | 27            | 26            | 26             | 26             | 26             | 30             | 32             |       |
| 整机重量 Total weight (Kg)                              | 1040                    | 1070          | 1280          | 1410          | 1600          | 1740          | 2000          | 2140           | 2230           | 2580           | 3640           | 3920           |       |
| 运行重量 Running Weight (Kg)                            | 1140                    | 1180          | 1420          | 1590          | 1760          | 1910          | 2180          | 2280           | 2440           | 2860           | 4240           | 4490           |       |
| 机组尺寸 Dimension LxWxH                                | 2200x800x1550           | 2200x800x1550 | 2350x800x1600 | 2500x800x1600 | 2600x900x1600 | 2800x900x1600 | 2900x900x1650 | 3050x1000x1650 | 3200x1000x1650 | 3300x1000x1650 | 3600x1000x1650 | 3800x1000x1650 |       |

注:

- 名义制冷量基准: 蒸发器进出口水温差范围 0°C/-5°C, 冷凝器进出口水温差 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -5°C ~ 5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 0°C/-5°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -5°C ~ 5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for improvement May be Made Without Notice.

出水温度: -5°C Water outlet temperature -5°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 450SMY 520SMY 570SMY 615SMY 685SMY 860SMY 1010SMY 1130SMY 140DMY 325DMY 365DMY 420DMY  |         |         |         |         |         |         |         |         |        |        |        |        |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
|   | 450SMY   | 520SMY  | 570SMY  | 615SMY  | 685SMY  | 860SMY  | 1010SMY | 1130SMY | 140DMY  | 325DMY | 365DMY | 420DMY |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 384.4   | 447.1   | 491.0   | 527.1   | 588.1   | 736.9   | 868.4   | 969.0   | 121.2  | 279.4  | 313.0  | 417.9  |
|   | KW   | 447     | 520     | 571     | 613     | 684     | 857     | 1010    | 1127    | 141    | 325    | 364    | 486    |
|   | USRT   | 127.1   | 147.9   | 162.4   | 174.3   | 194.5   | 243.7   | 287.2   | 320.4   | 40.1   | 92.4   | 103.5  | 138.2  |
| 输入功率 Input Power                            | KW   | 166.2   | 191.5   | 210.3   | 224.0   | 248.9   | 316.7   | 370.9   | 409.9   | 55.8   | 121.6  | 136.8  | 180.0  |
| 压缩机输入功率/台数 Comp.Input Power/Qty (kw)        |  | 166.2x1 | 191.5x1 | 210.3x1 | 224.0x1 | 248.9x1 | 316.7x1 | 370.9x1 | 409.9x1 | 27.9x2 | 60.8x2 | 68.4x2 | 90.0x2 |
| 机组运行电流 Comp.Current (A)                     |  | 279.5   | 322.0   | 353.6   | 376.6   | 418.5   | 532.4   | 623.5   | 689.2   | 93.8   | 204.6  | 230.0  | 302.8  |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |         |         |         |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1  |         |         |         |         |         |         |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0.50,75,100  |         |         |         |         |         |         |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115  | 134     | 148     | 158     | 177     | 218     | 256     | 292     | 36      | 84     | 92     | 124    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 5"   | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 8"      | 3"      | 4"     | 5"     | 5"     |        |
| 冷却水流量 Cooling Water Flow (m³/h)             | 105.5  | 122.4   | 134.4   | 143.9   | 160.4   | 201.8   | 237.5   | 264.3   | 33.8    | 76.8   | 86.1   | 114.5  |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 53   | 59      | 61      | 62      | 64      | 67      | 76      | 80      | 40      | 43     | 44     | 45     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 5"   | 5"      | 5"      | 5"      | 5"      | 8"      | 8"      | 8"      | 3"      | 5"     | 5"     | 5"     |        |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 83.8   | 97.2    | 106.8   | 114.6   | 127.9   | 160.3   | 188.9   | 210.8   | 26.4    | 60.8   | 68.1   | 90.9   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 85   | 88      | 87      | 80      | 83      | 85      | 88      | 91      | 36      | 49     | 62     | 51     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 2940   | 3120    | 3360    | 3540    | 3820    | 4250    | 4520    | 4880    | 1580    | 2520   | 2830   | 3480   |        |
| 运行重量 Running Weight (Kg)                    | 3370   | 3540    | 3690    | 4140    | 4390    | 4830    | 5120    | 5480    | 2010    | 3320   | 3740   | 4580   |        |

### 热回收技术参数 Heat Recovery

|   |                         |                |                |                |                |                |                |                |                |                |                |                |       |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| 制冷剂充注量 Refrigerant charge(kg)                       | 120                     | 140            | 154            | 164            | 185            | 228            | 266            | 306            | 42             | 90             | 98             | 130            |       |
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 115.3          | 134.1          | 147.3          | 158.1          | 176.4          | 221.1          | 260.5          | 290.7          | 36.4           | 83.8           | 93.9           | 125.4 |
|   | KW                      | 134            | 156            | 171            | 184            | 205            | 257            | 303            | 338            | 42             | 98             | 109            | 146   |
|   | USRT                    | 38.1           | 44.4           | 48.7           | 52.3           | 58.3           | 73.1           | 86.2           | 96.1           | 12.0           | 27.7           | 31.0           | 41.5  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |                |                |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |                |                |                |       |
| 热回收器进出口管径 Dia.of pipe to Heat Recoverer(inch)       | 4"                      | 4"             | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 2"             | 2-1/2"         | 2-1/2"         | 2-1/2"         |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 44.2                    | 52.1           | 29.5           | 31.8           | 35.3           | 44.2           | 52.1           | 58.1           | 7.3            | 16.8           | 18.8           | 25.1           |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34                      | 35             | 27             | 30             | 32             | 34             | 35             | 35             | 23             | 26             | 26             | 28             |       |
| 整机重量 Total weight (Kg)                              | 4810                    | 5180           | 3460           | 3640           | 3920           | 4810           | 5180           | 5570           | 1730           | 2800           | 3130           | 3930           |       |
| 运行重量 Running Weight (Kg)                            | 5420                    | 5800           | 3990           | 4240           | 4490           | 5420           | 5800           | 6200           | 2180           | 3610           | 3990           | 4980           |       |
| 机组尺寸 Dimension LxWxH                                | 3000x1500x1650          | 3000x1500x1700 | 3800x1800x1700 | 4000x1800x1600 | 4600x1800x2000 | 4600x1800x2000 | 4600x1800x2000 | 2800x1000x1650 | 2200x1000x1700 | 3100x1100x1800 | 3400x1200x1800 | 4000x1200x2000 |       |

注:

- 名义制冷量基准: 蒸发器进出口水温差范围 0°C/-5°C, 冷凝器进出口水温差 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -5°C ~ 5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet 0°C/-5°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -5°C ~ 5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -5°C Water outlet temperature -5°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              |   | 725DMY  | 800DMY  | 860DMY  | 900DMY  | 1040DMY | 1140DMY | 1230DMY | 1370DMY | 1720DMY | 2020DMY | 2250DMY |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |   | 725DMY  | 800DMY  | 860DMY  | 900DMY  | 1040DMY | 1140DMY | 1230DMY | 1370DMY | 1720DMY | 2020DMY | 2250DMY |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 623.4   | 689.6   | 735.2   | 768.7   | 893.4   | 981.1   | 1054.2  | 1177.1  | 1474.6  | 1736.0  | 1938.1  |
|   | KW  | 725     | 802     | 855     | 894     | 1039    | 1141    | 1228    | 1369    | 1715    | 2019    | 2254    |
|   | USRT  | 206.1   | 228.0   | 243.1   | 254.2   | 295.4   | 324.4   | 348.6   | 389.3   | 487.6   | 574.1   | 640.9   |
| 输入功率 Input Power                            | KW  | 267.6   | 297.6   | 315.6   | 332.4   | 383.0   | 420.6   | 448.0   | 497.8   | 633.4   | 741.8   | 819.8   |
| 压缩机输入功率/台数 Comp.Input Power/Qty (kw)        |   | 133.8x2 | 148.8x2 | 157.8x2 | 166.2x2 | 191.5x2 | 210.3x2 | 224.0x2 | 248.9x2 | 316.7x2 | 370.9x2 | 409.9x2 |
| 机组运行电流 Comp.Current (A)                     |   | 450.0   | 500.4   | 530.6   | 559.0   | 644.0   | 707.2   | 753.2   | 837.0   | 1064.8  | 1247.0  | 1378.4  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 2   |         |         |         |         |         |         |         |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0, 25,37.5,50,62.5,75,87.5,100  |         |         |         |         |         |         |         |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 185   | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 4" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 5" x 2  | 6" x 2  | 6" x 2  | 8" x 2  | 8" x 2  |
| 冷却水流量 Cooling Water Flow (m³/h)             | 170.7   | 189.1   | 201.3   | 210.9   | 244.5   | 268.5   | 287.9   | 321.0   | 403.9   | 474.8   | 528.6   |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 46  | 46      | 49      | 53      | 59      | 61      | 67      | 73      | 76      | 79      | 84      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 6"  | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |
| 30%乙二醇水溶液流量30% Glycol Flow Volume (m³/h)    | 135.6   | 150.0   | 159.9   | 167.2   | 194.3   | 213.4   | 229.3   | 256.0   | 320.7   | 377.6   | 421.5   |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 55  | 61      | 60      | 64      | 70      | 90      | 87      | 84      | 81      | 89      | 97      |         |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 4380  | 4620    | 5030    | 5570    | 6120    | 6580    | 6810    | 7060    | 8800    | 9500    | 10100   |         |
| 运行重量 Running Weight (Kg)                    | 5600  | 5940    | 6380    | 6620    | 6900    | 7150    | 7490    | 7840    | 9960    | 10600   | 11400   |         |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       |  | 196   | 214   | 230   | 240   | 280   | 308   | 328   | 370   | 456   | 532   | 612   |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h   | 187.0 | 206.9 | 220.6 | 230.6 | 268.0 | 294.3 | 316.3 | 353.1 | 442.4 | 520.8 | 581.4 |
|   | KW   | 218   | 241   | 257   | 268   | 312   | 342   | 368   | 411   | 515   | 606   | 676   |
|   | USRT   | 61.8  | 68.4  | 72.9  | 76.3  | 88.6  | 97.3  | 104.6 | 116.8 | 146.3 | 172.2 | 192.3 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type  |       |       |       |       |       |       |       |       |       |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |       |       |       |       |       |       |       |       |       |       |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 3"   | 3"    | 3"    | 3"    | 4"    | 4"    | 4"    | 4"    | 5"    | 5"    | 5"    |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 37.4   | 41.4  | 44.1  | 46.1  | 53.6  | 58.9  | 63.3  | 70.6  | 88.5  | 104.2 | 116.3 |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34   | 35    | 38    | 38    | 39    | 42    | 43    | 43    | 43    | 43    | 43    |       |
| 整机重量 Total weight (Kg)                              | 4570   | 5200  | 5690  | 6180  | 6740  | 7260  | 7620  | 7870  | 9050  | 9980  | 10580 |       |
| 运行重量 Running Weight (Kg)                            | 5750   | 6520  | 6810  | 7070  | 7460  | 7810  | 8290  | 8540  | 10220 | 11180 | 11800 |       |
| 机组尺寸 Dimension L*W*H                                | 4100*1900*2350 3800*1960*2300 4300*1960*2450 4500*1960*2500 4800*2000*2550 4800*2000*2600 3800*2250*2600 4700*2250*2800 5200*2250*2800 |       |       |       |       |       |       |       |       |       |       |       |

注:

- 名义制冷量基准: 蒸发器进出口水温差范围 0°C/-5°C, 冷凝器进口水温 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水温度范围: -5°C ~ 5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based:Chilled Liquid water in/outlet 0°C/-5°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -5°C ~ 5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -10°C Water outlet temperature -10°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              |   | 55SS   | 75SS   | 100SS  | 130SS  | 145SS  | 170SS  | 195SS  | 210SS  | 225SS  | 280SS  | 325SS   | 350SS   |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
|   |   | 55SSR  | 75SSR  | 100SSR | 130SSR | 145SSR | 170SSR | 195SSR | 210SSR | 225SSR | 280SSR | 325SSR  | 350SSR  |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 47.3   | 64.5   | 85.1   | 112.6  | 123.8  | 146.2  | 168.5  | 182.3  | 201.2  | 239.9  | 277.7   | 300.9   |
|   | KW  | 55     | 75     | 99     | 131    | 144    | 170    | 196    | 212    | 234    | 279    | 323     | 350     |
|   | USRT  | 15.6   | 21.3   | 28.1   | 37.2   | 40.9   | 48.3   | 55.7   | 60.3   | 66.5   | 79.3   | 91.8    | 99.5    |
| 输入功率 Input Power                            | KW  | 22.2   | 29.3   | 36.7   | 49.0   | 53.4   | 60.1   | 69.6   | 75.9   | 84.4   | 98.0   | 112.2   | 120.7   |
| 压缩机输入功率/台数 Comp.Input Power/Qty (kw)        |   | 22.2x1 | 29.3x1 | 36.7x1 | 49.0x1 | 53.4x1 | 60.1x1 | 69.6x1 | 75.9x1 | 84.4x1 | 98.0x1 | 112.2x1 | 120.7x1 |
| 机组运行电流 Comp.Current (A)                     |   | 37.4   | 49.2   | 61.7   | 82.4   | 89.7   | 101.1  | 117.0  | 127.6  | 141.9  | 164.8  | 188.6   | 203.0   |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |        |        |        |        |        |        |        |        |        |        |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |        |        |        |        |        |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 1   |        |        |        |        |        |        |        |        |        |        |         |         |
| 能量控制 Capacity Control (%)                   | 0,66,100 0,50,75,100  |        |        |        |        |        |        |        |        |        |        |         |         |
| 制冷剂充注量 Refrigerant Charge (Kg)              | 18  | 25     | 32     | 42     | 46     | 55     | 62     | 68     | 75     | 90     | 102    | 110     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |        |        |        |        |        |        |        |        |        |        |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |        |        |        |        |        |         |         |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     | 5"      |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 13.3  | 17.9   | 23.3   | 31.0   | 33.9   | 39.6   | 45.7   | 49.5   | 54.6   | 64.6   | 74.8   | 80.9    |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 35  | 40     | 39     | 46     | 45     | 44     | 43     | 43     | 43     | 44     | 44     | 44      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |        |        |        |        |        |        |        |        |        |        |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |        |        |        |        |        |         |         |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     | 5"      |         |
| 30%乙二醇水溶液流量30% Glycol Flow Volume (m³/h)    | 10.3  | 14.0   | 18.5   | 24.5   | 26.9   | 31.8   | 36.7   | 39.6   | 43.8   | 52.2   | 60.4   | 65.5    |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 26  | 33     | 38     | 42     | 54     | 65     | 72     | 79     | 75     | 51     | 56     | 75      |         |
| 运转噪音 Running Noise dB(A)                    | 73.1  | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 990   | 1020   | 1210   | 1360   | 1550   | 1690   | 1920   | 2040   | 2150   | 2500   | 2640   | 2850    |         |
| 运行重量 Running Weight (Kg)                    | 1090  | 1130   | 1370   | 1540   | 1710   | 1860   | 2100   | 2290   | 2360   | 2780   | 2920   | 3140    |         |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       |  | 21     | 28     | 35     | 45     | 49   | 58   | 65   | 71   | 78   | 95     | 107    | 115  |
|---|--|--------|--------|--------|--------|------|------|------|------|------|--------|--------|------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h   | 14.2   | 19.3   | 25.5   | 33.8   | 37.1 | 43.9 | 50.6 | 54.7 | 60.4 | 72.0   | 83.3   | 90.3 |
|   | KW   | 17     | 23     | 30     | 39     | 43   | 51   | 59   | 64   | 70   | 84     | 97     | 105  |
|   | USRT   | 4.7    | 6.4    | 8.4    | 11.2   | 12.3 | 14.5 | 16.7 | 18.1 | 20.0 | 23.8   | 27.6   | 29.9 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type  |        |        |        |        |      |      |      |      |      |        |        |      |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |        |        |        |        |      |      |      |      |      |        |        |      |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 1"   | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2"   | 2"   | 2"   | 2"   | 2"   | 2-1/2" | 2-1/2" |      |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 2.8  | 3.9    | 5.1    | 6.8    | 7.4    | 8.8  | 10.1 | 10.9 | 12.1 | 14.4 | 16.7   | 18.1   |      |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21   | 24     | 23     | 28     | 27     | 27   | 26   | 26   | 26   | 26   | 27     | 26     |      |
| 整机重量 Total weight (Kg)                              | 1040   | 1070   | 1260   | 1410   | 1600   | 1740 | 2000 | 2140 | 2230 | 2580 | 2740   | 2950   |      |
| 运行重量 Running Weight (Kg)                            | 1140   | 1180   | 1420   | 1590   | 1760   | 1910 | 2180 | 2280 | 2440 | 2860 | 3020   | 3240   |      |
| 机组尺寸 Dimension L*W*H                                | 3200*900*1500 2350*1000*1600 2550*1000*1600 2550*1000*1800 2600*1000*1800 3000*1000*1800 3000*1200*1800 3000*1200*1800 3000*1400*1800 3000*1400*1800 3000*1700*1800 3000*1700*1800 |        |        |        |        |      |      |      |      |      |        |        |      |

注:

- 名义制冷量基准: 蒸发器进出口水温差范围 -5°C/-10°C, 冷凝器进口水温 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水温度范围: -10°C ~ 0°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based:Chilled Liquid water in/outlet -5°C/-10°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -10°C ~ 0°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -10°C Water outlet temperature -10°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 365SS 425SS 465SS 505SS 560SS 685SS 810SS 920SS 1100S 260DS 290DS 390DS   |         |         |         |         |         |         |         |        |        |        |        |       |
|---|---|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|-------|
|   | 365SSR 425SSR 465SSR 505SSR 560SSR 685SSR 810SSR 920SSR 1100SR 260DSR 290DSR 390DSR   |         |         |         |         |         |         |         |        |        |        |        |       |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 312.1   | 363.7   | 399.0   | 426.5   | 480.7   | 588.8   | 693.8   | 792.9  | 94.6   | 225.3  | 247.6  | 337.1 |
|   | KW  | 363     | 423     | 464     | 496     | 559     | 685     | 807     | 922    | 110    | 262    | 288    | 392   |
|   | USRT  | 103.2   | 120.3   | 131.9   | 141.0   | 158.9   | 194.7   | 229.4   | 262.2  | 31.3   | 74.5   | 81.9   | 111.5 |
| 输入功率 Input Power                            | KW  | 124.6   | 143.6   | 159.2   | 169.1   | 190.2   | 232.0   | 271.9   | 307.6  | 44.4   | 98.0   | 106.8  | 139.2 |
| 压缩机输入功率台数 Comp.Input Power/Qty (kw)         | 124.6×1   | 143.6×1 | 159.2×1 | 169.1×1 | 190.2×1 | 232.0×1 | 271.9×1 | 307.6×1 | 22.2×2 | 49.0×2 | 53.4×2 | 69.6×2 |       |
| 机组运行电流 Comp.Current (A)                     | 209.5   | 241.3   | 267.7   | 284.3   | 319.7   | 390.1   | 457.1   | 517.1   | 74.8   | 164.8  | 179.4  | 234.0  |       |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |        |        |        |        |       |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |        |        |        |        |       |
| 制冷回路 Number of Refrigeration Circuit        | 1   |         |         |         |         |         |         |         |        |        |        |        |       |
| 能量控制 Capacity Control (%)                   | 0.50,75,100   |         |         |         |         |         |         |         |        |        |        |        |       |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115   | 134     | 148     | 158     | 177     | 218     | 256     | 292     | 36     | 84     | 92     | 124    |       |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |        |        |        |        |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |        |        |        |        |       |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 5"  | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 8"      | 3"     | 4"     | 5"     | 5"     |       |
| 冷却水流量 Cooling Water Flow (m³/h)             | 83.9  | 97.4    | 107.2   | 114.4   | 128.8   | 157.7   | 185.5   | 211.5   | 26.6   | 61.9   | 67.9   | 91.3   |       |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 50  | 56      | 58      | 59      | 61      | 64      | 72      | 76      | 38     | 41     | 42     | 42     |       |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |        |        |        |        |       |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |        |        |        |        |       |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 5"  | 5"      | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 3"     | 5"     | 5"     | 5"     |       |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 67.9  | 79.1    | 86.8    | 92.8    | 104.5   | 128.1   | 150.9   | 172.4   | 20.6   | 49.0   | 53.9   | 73.3   |       |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 94  | 47      | 69      | 82      | 85      | 88      | 91      | 94      | 37     | 50     | 64     | 53     |       |
| 运转噪音 Running Noise dB(A)                    | 75  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0   | 75.0   | 75     | 75.0   |       |
| 整机重量 Total weight (Kg)                      | 2940  | 3120    | 3380    | 3540    | 3820    | 4250    | 4520    | 4880    | 1580   | 2520   | 2830   | 3480   |       |
| 运行重量 Running Weight (Kg)                    | 3370  | 3540    | 3690    | 4140    | 4390    | 4830    | 5120    | 5480    | 2010   | 3320   | 3740   | 4580   |       |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 120                     | 140            | 154            | 164            | 185            | 228            | 266            | 306            | 42             | 90             | 98             | 130            |       |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 93.6           | 109.1          | 119.7          | 127.9          | 144.2          | 176.6          | 208.1          | 237.9          | 28.4           | 67.6           | 74.3           | 101.1 |
|   | KW                      | 109            | 127            | 139            | 149            | 168            | 205            | 242            | 277            | 33             | 79             | 86             | 118   |
|   | USRT                    | 31.0           | 36.1           | 39.6           | 42.3           | 47.7           | 58.4           | 68.8           | 78.7           | 9.4            | 22.3           | 24.6           | 33.4  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |                |                |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |                |                |                |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer (inch)      | 2-1/2"                  | 3"             | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 2"             | 2-1/2"         | 2-1/2"         | 2-1/2"         |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 18.7                    | 21.8           | 23.9           | 25.6           | 28.8           | 35.3           | 41.6           | 47.6           | 5.7            | 13.5           | 14.9           | 20.2           |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 26                      | 26             | 27             | 30             | 32             | 34             | 35             | 35             | 23             | 26             | 26             | 28             |       |
| 整机重量 Total weight (Kg)                              | 3040                    | 3220           | 3480           | 3640           | 3920           | 4810           | 5180           | 5570           | 1730           | 2800           | 3130           | 3930           |       |
| 运行重量 Running Weight (Kg)                            | 3460                    | 3640           | 3990           | 4240           | 4490           | 5420           | 5800           | 6200           | 2180           | 3610           | 3990           | 4980           |       |
| 机组尺寸 Dimension L*W*H                                | 3600*1700*1600          | 3600*1750*1600 | 3600*1750*1700 | 3600*1800*1700 | 3600*1800*1700 | 4800*1850*1900 | 4800*1850*2000 | 5000*1900*1900 | 3300*1300*1600 | 3300*1350*1700 | 3300*1400*1900 | 3400*1450*2000 |       |

注:

- 名义制冷量基准: 蒸发器进出口水溶液温度 -5°C/-10°C, 冷凝器进口水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 水溶液温度范围: -10°C-0°C;
- 冷却水温度范围: 15°C-40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -5°C/-10°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -10°C-0°C;
- Cooling water range: 15°C-40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -10°C Water outlet temperature -10°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 590DS 645DS 700DS 725DS 845DS 930DS 990DS 1120DS 1370DS 1615DS 1845DS   |         |         |         |         |         |         |         |         |         |         |        |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
|   | 590DSR 645DSR 700DSR 725DSR 845DSR 930DSR 990DSR 1120DSR 1370DSR 1615DSR 1845DSR  |         |         |         |         |         |         |         |         |         |         |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 507.3   | 555.5   | 601.0   | 624.2   | 726.6   | 798.8   | 852.1   | 960.4   | 1178.0  | 1387.8  | 1585.6 |
|   | KW  | 590     | 646     | 699     | 726     | 845     | 929     | 991     | 1117    | 1370    | 1614    | 1844   |
|   | USRT  | 167.8   | 183.7   | 198.7   | 206.4   | 240.3   | 264.1   | 281.8   | 317.6   | 389.5   | 458.9   | 524.3  |
| 输入功率 Input Power                            | KW  | 207.0   | 224.4   | 241.4   | 249.2   | 287.2   | 318.4   | 336.2   | 380.4   | 464.0   | 543.8   | 615.2  |
| 压缩机输入功率台数 Comp.Input Power/Qty (kw)         | 103.5×2   | 112.2×2 | 120.7×2 | 124.6×2 | 143.6×2 | 159.2×2 | 169.1×2 | 199.2×2 | 232.0×2 | 271.9×2 | 307.6×2 |        |
| 机组运行电流 Comp.Current (A)                     | 348.0   | 377.2   | 406.0   | 419.0   | 482.6   | 535.4   | 568.6   | 639.4   | 780.2   | 914.2   | 1034.2  |        |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |         |         |         |        |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |        |
| 制冷回路 Number of Refrigeration Circuit        | 2   |         |         |         |         |         |         |         |         |         |         |        |
| 能量控制 Capacity Control (%)                   | 0, 25,37.5,50,62.5,75,87.5,100  |         |         |         |         |         |         |         |         |         |         |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 168   | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |        |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 4"×2  | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 6"×2    | 6"×2    | 6"×2    | 8"×2   |
| 冷却水流量 Cooling Water Flow (m³/h)             | 137.1   | 149.7   | 161.7   | 167.7   | 194.7   | 214.5   | 228.6   | 257.5   | 315.4   | 371.1   | 422.9   |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 43  | 44      | 47      | 50      | 56      | 58      | 63      | 69      | 72      | 75      | 80      |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |        |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 6"  | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |        |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 110.3   | 120.8   | 130.7   | 135.8   | 158.0   | 173.7   | 185.3   | 208.9   | 256.2   | 301.8   | 344.8   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 56  | 62      | 62      | 66      | 72      | 93      | 90      | 87      | 84      | 92      | 99      |        |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75      | 75.0    | 75.0    |        |
| 整机重量 Total weight (Kg)                      | 4380  | 5200    | 5690    | 6180    | 6740    | 7260    | 6810    | 7060    | 8800    | 9500    | 10100   |        |
| 运行重量 Running Weight (Kg)                    | 5600  | 6520    | 6810    | 7070    | 7460    | 7810    | 7490    | 7840    | 9960    | 10800   | 11400   |        |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 196                     | 214            | 230            | 240            | 280            | 308            | 328            | 370            | 456            | 532   | 612   |       |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 152.2          | 166.6          | 180.3          | 187.3          | 218.0          | 239.6          | 255.6          | 288.1          | 353.4 | 416.3 | 475.7 |
|   | KW                      | 177            | 194            | 210            | 218            | 254            | 279            | 297            | 335            | 411   | 484   | 553   |
|   | USRT                    | 50.3           | 55.1           | 59.6           | 61.9           | 72.1           | 79.2           | 84.5           | 95.3           | 116.9 | 137.7 | 157.3 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |       |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |       |       |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer (inch)      | 3"                      | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 4"             | 5"             | 5"    | 5"    |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 30.4                    | 33.3           | 36.1           | 37.5           | 43.6           | 47.9           | 51.1           | 57.6           | 70.7           | 83.3  | 95.1  |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34                      | 35             | 38             | 38             | 39             | 42             | 43             | 43             | 43             | 43    | 43    |       |
| 整机重量 Total weight (Kg)                              | 4570                    | 5200           | 5690           | 6180           | 6740           | 7260           | 7620           | 7870           | 9050           | 9980  | 10580 |       |
| 运行重量 Running Weight (Kg)                            | 5750                    | 6520           | 6810           | 7070           | 7460           | 7810           | 8290           | 8540           | 10220          | 11180 | 11800 |       |
| 机组尺寸 Dimension L*W*H                                | 4100*2000*2200          | 3900*2050*2300 | 4500*2050*2450 | 4600*2050*2500 | 4600*2100*2550 | 4800*2100*2600 | 4800*2250*2600 | 4100*2250*2850 | 4200*2250*2900 |       |       |       |

注:

- 名义制冷量基准: 蒸发器进出口水溶液温度 -5°C/-10°C, 冷凝器进口水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 水溶液温度范围: -10°C-0°C;
- 冷却水温度范围: 15°C-40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -5°C/-10°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -10°C-0°C;
- Cooling water range: 15°C-40°C;
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -10°C Water outlet temperature -10°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 60SSY 80SSY 100SSY 135SSY 150SSY 175SSY 200SSY 225SSY 240SSY 290SSY 335SSY 360SSY   |        |         |         |         |         |         |         |         |         |         |         |         |
|---|---|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | 60SSRY  | 80SSRY | 100SSRY | 135SSRY | 150SSRY | 175SSRY | 200SSRY | 225SSRY | 240SSRY | 290SSRY | 335SSRY | 360SSRY |         |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 50.7   | 67.1    | 87.7    | 116.9   | 130.7   | 151.3   | 174.5   | 192.6   | 208.1   | 246.8   | 288.9   | 307.8   |
|   | KW  | 59     | 78      | 102     | 136     | 152     | 176     | 203     | 224     | 242     | 287     | 336     | 358     |
|   | USRT  | 16.6   | 22.2    | 29.0    | 38.7    | 43.2    | 50.0    | 57.7    | 63.7    | 68.8    | 81.6    | 95.5    | 101.8   |
| 输入功率 Input Power                            | KW  | 27.4   | 35.9    | 45.6    | 59.7    | 67.1    | 76.4    | 88.3    | 96.1    | 105.2   | 124.3   | 145.9   | 154.8   |
| 压缩机输入功率×台数 Comp.Input Power/Qty (kw)        |   | 27.4x1 | 35.9x1  | 45.6x1  | 59.7x1  | 67.1x1  | 76.4x1  | 88.3x1  | 96.1x1  | 105.2x1 | 124.3x1 | 145.9x1 | 154.8x1 |
| 机组运行电流 Comp.Current (A)                     |   | 46.0   | 60.3    | 76.6    | 100.3   | 112.8   | 128.4   | 148.4   | 161.5   | 176.9   | 208.9   | 245.4   | 260.2   |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |        |         |         |         |         |         |         |         |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |         |         |         |         |         |         |         |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 1   |        |         |         |         |         |         |         |         |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0,66,100  |        |         |         |         |         |         |         |         |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 18  | 25     | 32      | 42      | 46      | 55      | 62      | 68      | 75      | 90      | 102     | 110     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |        |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |         |         |         |         |         |         |         |         |         |         |         |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 2"  | 2-1/2" | 3"      | 3"      | 3"      | 3"      | 4"      | 4"      | 4"      | 5"      | 5"      | 5"      |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 14.9  | 19.6   | 25.4    | 33.7    | 37.7    | 43.4    | 50.1    | 55.0    | 59.7    | 70.7    | 82.9    | 88.2    |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 35  | 40     | 39      | 46      | 45      | 44      | 43      | 43      | 43      | 44      | 44      | 44      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |        |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |         |         |         |         |         |         |         |         |         |         |         |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 2"  | 2-1/2" | 3"      | 3"      | 3"      | 3"      | 4"      | 4"      | 4"      | 4"      | 5"      | 5"      |         |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 11.0  | 14.6   | 19.1    | 25.4    | 28.4    | 32.9    | 38.0    | 41.9    | 45.3    | 53.7    | 62.8    | 66.9    |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 26  | 33     | 38      | 42      | 54      | 65      | 72      | 79      | 75      | 51      | 56      | 75      |         |
| 运转噪音 Running Noise dB(A)                    | 73.1  | 73.7   | 74.8    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 990   | 1020   | 1210    | 1360    | 1550    | 1690    | 1920    | 2040    | 2150    | 2500    | 2640    | 2850    |         |
| 运行重量 Running Weight (Kg)                    | 1090  | 1130   | 1370    | 1540    | 1710    | 1860    | 2100    | 2200    | 2360    | 2780    | 2920    | 3140    |         |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 21  | 28     | 35     | 45     | 49     | 58   | 65   | 71   | 78   | 95   | 107    | 115    |      |
|---|---|--------|--------|--------|--------|------|------|------|------|------|--------|--------|------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h  | 15.2   | 20.1   | 26.3   | 35.1   | 39.2 | 45.4 | 52.4 | 57.8 | 62.4 | 74.0   | 86.7   | 92.3 |
|   | KW  | 18     | 23     | 31     | 41     | 46   | 53   | 61   | 67   | 73   | 86     | 101    | 107  |
|   | USRT  | 5.0    | 6.7    | 8.7    | 11.6   | 13.0 | 15.0 | 17.3 | 19.1 | 20.8 | 24.5   | 28.7   | 30.5 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type   |        |        |        |        |      |      |      |      |      |        |        |      |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1   |        |        |        |        |      |      |      |      |      |        |        |      |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 1"  | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2"   | 2"   | 2"   | 2"   | 2"   | 2-1/2" | 2-1/2" |      |
| 卫生热水量 Reclaimed Water Flow(m³/h)                    | 3.0   | 4.0    | 5.3    | 7.0    | 7.8    | 9.1  | 10.5 | 11.6 | 12.5 | 14.8 | 17.3   | 18.5   |      |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21  | 24     | 23     | 28     | 27     | 27   | 26   | 26   | 26   | 26   | 27     | 26     |      |
| 整机重量 Total weight (Kg)                              | 1040  | 1070   | 1260   | 1410   | 1600   | 1740 | 2000 | 2140 | 2230 | 2580 | 2740   | 2950   |      |
| 运行重量 Running Weight (Kg)                            | 1140  | 1180   | 1420   | 1590   | 1760   | 1910 | 2180 | 2280 | 2440 | 2860 | 3020   | 3240   |      |
| 机组尺寸 Dimension L*W*H                                | 2200*900*1300 2205*950*1350 2250*1000*1400 2530*1030*1600 2650*1030*1600 2850*1030*1600 3000*1030*1600 3000*1120*1600 3000*1120*1600 3000*1120*1600 3000*1120*1600 3000*1120*1600 3000*1120*1600 3000*1120*1600 |        |        |        |        |      |      |      |      |      |        |        |      |

注:  
1.名义制冷量基准: 蒸发器进出口水温差-5°C/-10°C,  
冷凝器进出口水温 30°C/35°C, 污垢系数: 0.088 m²·°C/KW;  
2.海水溶液温度范围: -10°C ~ 0°C;  
3.冷却水温度范围: 15°C ~ 40°C;  
4.规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:  
1.Rated cooling capacity based:Chilled Liquid water in/outlet -5°C/-10°C,  
cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;  
2.Chilled Liquid range: -10°C ~ 0°C;  
3.Cooling water range: 15°C ~ 40°C;  
4.Changes of Specification for Improvement May be Made Without Notice.

出水温度: -10°C Water outlet temperature -10°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 375SSY 435SSY 480SSY 515SSY 575SSY 720SSY 845SSY 945SSY 120DSY 270DSY 305DSY 410DSY   |         |         |         |         |         |         |         |         |         |         |         |        |  |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--|
|   | 375SSRY   | 435SSRY | 480SSRY | 515SSRY | 575SSRY | 720SSRY | 845SSRY | 945SSRY | 120DSRY | 270DSRY | 305DSRY | 410DSRY |        |  |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 321.6   | 374.0   | 411.0   | 441.1   | 492.7   | 616.5   | 726.6   | 810.8   | 101.5   | 233.9   | 262.3   | 350.0  |  |
|   | KW  | 374     | 435     | 478     | 513     | 573     | 717     | 845     | 943     | 118     | 272     | 305     | 407    |  |
|   | USRT  | 106.3   | 123.7   | 135.9   | 145.9   | 162.9   | 203.9   | 240.3   | 268.1   | 33.6    | 77.3    | 86.7    | 115.7  |  |
| 输入功率 Input Power                            | KW  | 163.0   | 187.8   | 206.2   | 219.6   | 244.1   | 310.5   | 363.6   | 401.9   | 54.8    | 119.4   | 134.2   | 176.6  |  |
| 压缩机输入功率×台数 Comp.Input Power/Qty (kw)        |   | 163.0x1 | 187.8x1 | 206.2x1 | 219.6x1 | 244.1x1 | 310.5x1 | 363.6x1 | 401.9x1 | 27.4x2  | 59.7x2  | 67.1x2  | 88.3x2 |  |
| 机组运行电流 Comp.Current (A)                     |   | 274.0   | 315.7   | 346.7   | 369.3   | 410.3   | 522.0   | 611.3   | 675.7   | 92.0    | 200.6   | 225.6   | 296.8  |  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 制冷回路 Number of Refrigeration Circuit        | 1   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 能量控制 Capacity Control (%)                   | 0,50,75,100   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115   | 134     | 148     | 158     | 177     | 218     | 256     | 292     | 36      | 84      | 92      | 124     |        |  |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 5"  | 5"      | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 8"      | 3"      | 4"      | 5"      | 5"     |  |
| 冷却水流量 Cooling Water Flow (m³/h)             | 92.3  | 107.1   | 117.7   | 126.0   | 140.5   | 176.7   | 207.8   | 231.3   | 29.7    | 67.3    | 75.5    | 100.4   |        |  |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 50  | 56      | 58      | 59      | 61      | 64      | 72      | 76      | 38      | 41      | 42      | 42      |        |  |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |        |  |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 5"  | 5"      | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 8"      | 3"      | 5"      | 5"      | 5"     |  |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 69.9  | 81.3    | 89.4    | 95.9    | 107.2   | 134.1   | 156.0   | 176.3   | 22.1    | 50.9    | 57.0    | 76.1    |        |  |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 94  | 47      | 69      | 82      | 85      | 88      | 91      | 94      | 37      | 50      | 64      | 53      |        |  |
| 运转噪音 Running Noise dB(A)                    | 75  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |        |  |
| 整机重量 Total weight (Kg)                      | 2940  | 3120    | 3360    | 3540    | 3820    | 4250    | 4520    | 4680    | 1580    | 2520    | 2830    | 3480    |        |  |
| 运行重量 Running Weight (Kg)                    | 3370  | 3540    | 3890    | 4140    | 4390    | 4830    | 5120    | 5480    | 2010    | 3320    | 3740    | 4580    |        |  |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 120  | 140  | 154   | 164   | 185   | 228   | 266   | 306   | 42    | 90     | 98     | 130    |       |
|---|--|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h   | 96.5 | 112.2 | 123.3 | 132.3 | 147.8 | 185.0 | 218.0 | 243.3 | 30.4   | 70.2   | 78.7   | 105.0 |
|   | KW   | 112  | 131   | 143   | 154   | 172   | 215   | 254   | 283   | 35     | 82     | 92     | 122   |
|   | USRT   | 31.9 | 37.1  | 40.8  | 43.8  | 48.9  | 61.2  | 72.1  | 80.4  | 10.1   | 23.2   | 26.0   | 34.7  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type  |      |       |       |       |       |       |       |       |        |        |        |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |      |       |       |       |       |       |       |       |        |        |        |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 2-1/2"   | 3"   | 3"    | 3"    | 3"    | 4"    | 4"    | 4"    | 2"    | 2-1/2" | 2-1/2" | 2-1/2" |       |
| 卫生热水量 Reclaimed Water Flow(m³/h)                    | 19.3   | 22.4 | 24.7  | 26.5  | 29.6  | 37.0  | 43.6  | 48.7  | 6.1   | 14.0   | 15.7   | 21.0   |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 26   | 26   | 27    | 30    | 32    | 34    | 35    | 35    | 23    | 26     | 26     | 28     |       |
| 整机重量 Total weight (Kg)                              | 3040   | 3220 | 3460  | 3640  | 3920  | 4810  | 5180  | 5570  | 1730  | 2800   | 3130   | 3930   |       |
| 运行重量 Running Weight (Kg)                            | 3460   | 3640 | 3990  | 4240  | 4490  | 5420  | 5800  | 6200  | 2180  | 3610   | 3990   | 4980   |       |
| 机组尺寸 Dimension L*W*H                                | 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 3600*1700*1600 |      |       |       |       |       |       |       |       |        |        |        |       |

注:  
1.名义制冷量基准: 蒸发器进出口水温差-5°C/-10°C,  
冷凝器进出口水温 30°C/35°C, 污垢系数: 0.088 m²·°C/KW;  
2.海水溶液温度范围: -10°C ~ 0°C;  
3.冷却水温度范围: 15°C ~ 40°C;  
4.规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:  
1.Rated cooling capacity based:Chilled Liquid water in/outlet -5°C/-10°C,  
cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;  
2.Chilled Liquid range: -10°C ~ 0°C;  
3.Cooling water range: 15°C ~ 40°C;  
4.Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组 Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -10°C Water outlet temperature -10°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 610DSY  | 670DSY  | 715DSY  | 750DSY  | 870DSY  | 955DSY  | 1025DSY | 1145DSY | 1435DSY | 1690DSY | 1890DSY |         |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |   |         |         |         |         |         |         |         |         |         |         | 610DSRY |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 521.9   | 577.0   | 614.8   | 643.2   | 748.1   | 821.2   | 882.2   | 984.5   | 1233.9  | 1452.3  | 1621.7  |
|   | KW  | 607     | 671     | 715     | 748     | 870     | 955     | 1026    | 1145    | 1435    | 1689    | 1866    |
|   | USRT  | 172.6   | 190.8   | 203.3   | 212.7   | 247.4   | 271.5   | 291.7   | 325.6   | 408.0   | 480.2   | 538.3   |
| 输入功率 Input Power                            | KW  | 262.4   | 291.8   | 306.6   | 326.0   | 375.6   | 412.4   | 439.2   | 488.2   | 621.0   | 727.2   | 803.8   |
| 压缩机输入功率X台数 Comp.Input Power*Qty (kw)        |   | 131.2*2 | 145.9*2 | 154.8*2 | 163.0*2 | 187.8*2 | 206.2*2 | 219.6*2 | 244.1*2 | 310.5*2 | 363.6*2 | 401.9*2 |
| 机组运行电流 Comp.Current (A)                     |   | 441.2   | 490.8   | 520.4   | 548.0   | 631.4   | 693.4   | 738.6   | 820.6   | 1044.0  | 1222.6  | 1351.4  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 2   |         |         |         |         |         |         |         |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0, 25,37 5.50,62.5,75,87.5,100  |         |         |         |         |         |         |         |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188   | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 4"×2  | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 6"×2    | 6"×2    | 8"×2    | 8"×2    |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 149.5   | 165.6   | 176.2   | 184.7   | 214.2   | 235.2   | 252.0   | 280.9   | 353.6   | 415.5   | 462.6   |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 43  | 44      | 47      | 50      | 56      | 58      | 63      | 69      | 72      | 75      | 80      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |         |         |         |         |         |         |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 6"  | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |
| 30%乙二醇水溶液流量 30% Glycol Flow Volume (m³/h)   | 113.5   | 125.5   | 133.7   | 139.9   | 162.7   | 178.6   | 191.9   | 214.1   | 268.3   | 315.8   | 352.7   |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 56  | 62      | 62      | 66      | 72      | 93      | 90      | 87      | 84      | 92      | 99      |         |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75      | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 4380  | 5200    | 5690    | 6180    | 6740    | 7250    | 6810    | 7060    | 8800    | 9500    | 10100   |         |
| 运行重量 Running Weight (Kg)                    | 5600  | 6520    | 6810    | 7070    | 7460    | 7810    | 7490    | 7840    | 9960    | 10800   | 11400   |         |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 196  | 214   | 230   | 240   | 280   | 308   | 328   | 370   | 456   | 532   | 612   |       |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h   | 156.6 | 173.1 | 184.4 | 192.9 | 224.4 | 246.3 | 264.7 | 295.4 | 370.2 | 435.7 | 486.5 |
|   | KW   | 182   | 201   | 215   | 224   | 261   | 287   | 308   | 344   | 431   | 507   | 566   |
|   | USRT   | 51.8  | 57.2  | 61.0  | 63.8  | 74.2  | 81.5  | 87.5  | 97.7  | 122.4 | 144.1 | 160.9 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type  |       |       |       |       |       |       |       |       |       |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |       |       |       |       |       |       |       |       |       |       |       |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 3"   | 3"    | 3"    | 3"    | 4"    | 4"    | 4"    | 4"    | 5"    | 5"    | 5"    |       |
| 卫生热水量 Reclaimed Water Flow(m³/h)                    | 31.3   | 34.6  | 36.9  | 38.6  | 44.9  | 49.3  | 52.9  | 59.1  | 74.0  | 87.1  | 97.3  |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34   | 35    | 38    | 38    | 39    | 42    | 43    | 43    | 43    | 43    | 43    |       |
| 整机重量 Total weight (Kg)                              | 4670   | 5200  | 5690  | 6180  | 6740  | 7250  | 7620  | 7870  | 9050  | 9980  | 10580 |       |
| 运行重量 Running Weight (Kg)                            | 5750   | 6520  | 6810  | 7070  | 7460  | 7810  | 8290  | 8540  | 10220 | 11180 | 11800 |       |
| 机组尺寸 Dimension L×W×H                                | 4100×2560×2200 3900×2060×2300 4500×2650×2450 4900×2060×2300 4900×2100×2500 4000×2100×2600 4600×2250×2600 4700×2250×2600 5200×2250×2800 |       |       |       |       |       |       |       |       |       |       |       |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 -5°C / -10°C.
- 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -10°C ~ 0°C;
- 冷却水溶液温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -5°C / -10°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -10°C ~ 0°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -15°C Water outlet temperature -15°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 45SL  | 60SL   | 80SL   | 105SL  | 115SL  | 140SL  | 160SL  | 170SL  | 190SL  | 225SL  | 260SL  | 280SL   |         |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
|   |   |        |        |        |        |        |        |        |        |        |        |         | 45SLR   |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 38.7   | 52.5   | 68.6   | 91.1   | 100.6  | 118.7  | 136.7  | 147.9  | 162.5  | 194.3  | 224.4   | 242.5   |
|   | KW  | 45     | 61     | 80     | 106    | 117    | 138    | 159    | 172    | 189    | 226    | 261     | 282     |
|   | USRT  | 12.8   | 17.3   | 22.7   | 30.1   | 33.3   | 39.2   | 45.2   | 48.9   | 53.7   | 64.3   | 74.2    | 80.2    |
| 输入功率 Input Power                            | KW  | 21.5   | 28.3   | 35.5   | 47.4   | 51.7   | 58.2   | 67.3   | 73.5   | 81.7   | 94.9   | 108.5   | 116.8   |
| 压缩机输入功率X台数 Comp.Input Power*Qty (kw)        |   | 21.5*1 | 28.3*1 | 35.5*1 | 47.4*1 | 51.7*1 | 58.2*1 | 67.3*1 | 73.5*1 | 81.7*1 | 94.9*1 | 108.5*1 | 116.8*1 |
| 机组运行电流 Comp.Current (A)                     |   | 36.1   | 47.6   | 59.7   | 79.7   | 86.8   | 97.8   | 113.2  | 123.5  | 137.3  | 159.5  | 182.5   | 196.4   |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |        |        |        |        |        |        |        |        |        |        |         |         |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |        |        |        |        |        |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 1   |        |        |        |        |        |        |        |        |        |        |         |         |
| 能量控制 Capacity Control (%)                   | 0.66,100  |        |        |        |        |        |        |        |        |        |        |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 18  | 25     | 32     | 42     | 46     | 55     | 62     | 68     | 75     | 90     | 102    | 110     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |        |        |        |        |        |        |        |        |        |        |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |        |        |        |        |        |         |         |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 5"     | 5"     | 5"      |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 11.4  | 15.4   | 19.9   | 26.4   | 29.0   | 33.7   | 38.9   | 42.2   | 46.6   | 55.2   | 63.5   | 68.6    |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 35  | 40     | 39     | 46     | 45     | 44     | 43     | 43     | 43     | 44     | 44     | 44      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |        |        |        |        |        |        |        |        |        |        |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |        |        |        |        |        |        |        |        |        |         |         |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     | 5"      |         |
| 40%乙二醇水溶液流量 40% Glycol Flow Volume (m³/h)   | 8.9   | 12.1   | 15.8   | 20.9   | 23.1   | 27.3   | 31.4   | 34.0   | 37.3   | 44.7   | 51.6   | 55.7    |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 26  | 34     | 38     | 43     | 55     | 67     | 74     | 80     | 77     | 52     | 57     | 76      |         |
| 运转噪音 Running Noise dB(A)                    | 73.1  | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 1070  | 1100   | 1290   | 1450   | 1640   | 1780   | 2010   | 2130   | 2300   | 2650   | 2800   | 3010    |         |
| 运行重量 Running Weight (Kg)                    | 1170  | 1210   | 1460   | 1630   | 1800   | 1950   | 2190   | 2290   | 2510   | 2930   | 3080   | 3300    |         |

### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 21  | 28     | 35     | 45     | 49     | 58   | 65   | 71   | 78   | 95   | 107    | 115    |      |
|---|---|--------|--------|--------|--------|------|------|------|------|------|--------|--------|------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h  | 11.6   | 15.7   | 20.6   | 27.3   | 30.2 | 35.6 | 41.0 | 44.4 | 48.8 | 56.3   | 67.3   | 72.7 |
|   | KW  | 14     | 18     | 24     | 32     | 35   | 41   | 48   | 52   | 57   | 68     | 78     | 85   |
|   | USRT  | 3.8    | 5.2    | 6.8    | 9.0    | 10.0 | 11.8 | 13.6 | 14.7 | 16.1 | 19.3   | 22.3   | 24.1 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type   |        |        |        |        |      |      |      |      |      |        |        |      |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1   |        |        |        |        |      |      |      |      |      |        |        |      |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 1"  | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2"   | 2"   | 2"   | 2"   | 2"   | 2-1/2" | 2-1/2" |      |
| 卫生热水量 Reclaimed Water Flow(m³/h)                    | 2.3   | 3.1    | 4.1    | 5.5    | 6.0    | 7.1  | 8.2  | 8.9  | 9.8  | 11.7 | 13.5   | 14.5   |      |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21  | 24     | 23     | 28     | 27     | 27   | 26   | 26   | 26   | 26   | 27     | 26     |      |
| 整机重量 Total weight (Kg)                              | 1130  | 1160   | 1390   | 1550   | 1780   | 1920 | 2190 | 2310 | 2510 | 2900 | 3050   | 3350   |      |
| 运行重量 Running Weight (Kg)                            | 1230  | 1270   | 1560   | 1730   | 1940   | 2090 | 2370 | 2470 | 2720 | 3180 | 3330   | 3640   |      |
| 机组尺寸 Dimension L×W×H                                | 3200×900×1500 2250×850×1500 2350×1000×1600 2950×1000×1800 2600×1000×1800 2000×1000×1800 2300×1250×1800 2000×1400×1900 2950×1400×1900 3000×1700×1600 3100×1700×1600 3000×1700×1600 |        |        |        |        |      |      |      |      |      |        |        |      |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 -10°C / -15°C.
- 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -15°C ~ -5°C;
- 冷却水溶液温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -10°C / -15°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -15°C ~ -5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





**(热回收)水冷螺杆式低温冷水机组**  
Low Temp. Screw-Type Water Chiller (Heat Recovery)

**(热回收)水冷螺杆式低温冷水机组**  
Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -15°C Water outlet temperature -15°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 295SL 340SL 375SL 400SL 450SL 565SL 665SL 760SL 90DL 215DL 235DL 320DL   |         |         |         |         |         |                                |         |         |        |        |        |        |
|---|--|---------|---------|---------|---------|---------|--------------------------------|---------|---------|--------|--------|--------|--------|
|   | 295SLR 340SLR 375SLR 400SLR 450SLR 565SLR 665SLR 760SLR 90DLR 215DLR 235DLR 320DLR   |         |         |         |         |         |                                |         |         |        |        |        |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 251.9   | 294.1   | 322.4   | 344.8   | 388.7   | 486.1                          | 572.7   | 654.6   | 76.5   | 183.1  | 200.3  | 273.4  |
|   | KW   | 293     | 342     | 375     | 401     | 452     | 565                            | 666     | 761     | 89     | 213    | 233    | 318    |
|   | USRT   | 83.3    | 97.2    | 106.6   | 114.0   | 128.5   | 160.7                          | 189.4   | 216.5   | 25.3   | 60.6   | 66.2   | 90.4   |
| 输入功率 Input Power                            | KW   | 120.6   | 138.9   | 154.1   | 163.6   | 184.0   | 224.5                          | 263.1   | 297.6   | 43.0   | 94.8   | 103.4  | 134.6  |
| 压缩机输入功率系数 Comp.Input Power/Qty (kw)         |  | 120.6×1 | 138.9×1 | 154.1×1 | 163.6×1 | 184.0×1 | 224.5×1                        | 263.1×1 | 297.6×1 | 21.5×2 | 47.4×2 | 51.7×2 | 67.3×2 |
| 机组运行电流 Comp.Current (A)                     |  | 202.7   | 233.5   | 259.0   | 275.1   | 309.4   | 377.4                          | 442.3   | 500.3   | 72.2   | 159.4  | 173.6  | 226.4  |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low/High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |                                |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1  |         |         |         |         |         | 2                              |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0.50,75,100  |         |         |         |         |         | 0, 25,37,5,50,62,5,75,87,5,100 |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115  | 134     | 148     | 158     | 177     | 218     | 256                            | 292     | 36      | 84     | 92     | 124    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 5"   | 5"      | 5"      | 5"      | 6"      | 6"      | 6"                             | 8"      | 3"      | 4"     | 5"     | 5"     |        |
| 冷却水流量 Cooling Water Flow (m³/h)             | 71.1   | 82.7    | 91.0    | 97.1    | 109.4   | 135.8   | 159.0                          | 182.1   | 22.7    | 52.9   | 57.9   | 77.8   |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 50   | 56      | 58      | 59      | 61      | 63      | 72                             | 76      | 38      | 41     | 42     | 42     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |                                |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 5"   | 5"      | 5"      | 5"      | 5"      | 6"      | 6"                             | 8"      | 3"      | 5"     | 5"     | 5"     |        |
| 40%乙二醇水溶液流量40% Glycol Flow Volume (m³/h)    | 57.9   | 67.6    | 74.1    | 79.2    | 89.3    | 111.7   | 131.6                          | 150.4   | 17.6    | 42.1   | 46.0   | 62.8   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 95   | 48      | 70      | 84      | 87      | 90      | 92                             | 95      | 38      | 51     | 65     | 54     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0                           | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 3100   | 3300    | 3540    | 3620    | 4000    | 4320    | 4580                           | 4950    | 1740    | 2680   | 3010   | 3660   |        |
| 运行重量 Running Weight (Kg)                    | 3530   | 3720    | 4070    | 4320    | 4570    | 4900    | 5180                           | 5550    | 2170    | 3480   | 3920   | 4760   |        |

热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 120                     | 140            | 154            | 164            | 165            | 228            | 266            | 306            | 42             | 90             | 98             | 130            |                |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 75.6           | 88.2           | 96.7           | 103.4          | 116.6          | 145.8          | 171.8          | 196.4          | 23.0           | 54.9           | 60.1           | 82.0           |
|   | KW                      | 88             | 103            | 113            | 120            | 136            | 170            | 200            | 228            | 27             | 64             | 70             | 95             |
|   | USRT                    | 25.0           | 29.2           | 32.0           | 34.2           | 36.6           | 48.2           | 56.8           | 64.9           | 7.6            | 18.2           | 19.9           | 27.1           |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |                |                |                |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |                |                |                |                |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 2-1/2"                  | 3"             | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 2"             | 2-1/2"         | 2-1/2"         | 2-1/2"         |                |
| 卫生热水量 Reclaimed Water Flow(m³/h)                    | 15.1                    | 17.6           | 19.3           | 20.7           | 23.3           | 29.2           | 34.4           | 39.3           | 4.6            | 11.0           | 12.0           | 16.4           |                |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 26                      | 26             | 27             | 30             | 32             | 34             | 35             | 35             | 23             | 26             | 26             | 28             |                |
| 整机重量 Total weight (Kg)                              | 3440                    | 3680           | 3920           | 4200           | 4380           | 4880           | 5240           | 5640           | 1870           | 2930           | 3280           | 4010           |                |
| 运行重量 Running Weight (Kg)                            | 3870                    | 4100           | 4450           | 4700           | 4950           | 5490           | 5880           | 6270           | 2300           | 3730           | 4220           | 5110           |                |
| 机组尺寸 Dimension L×W×H                                | 3000×1700×1650          | 3500×1750×1650 | 3600×1750×1700 | 3600×1800×1700 | 3600×1800×1700 | 4000×1800×1700 | 4000×1800×1700 | 4000×1800×1700 | 2650×1300×1650 | 2650×1300×1650 | 2650×1300×1650 | 3000×1400×1600 | 3400×1400×1600 |

- 注:  
1.名义制冷量基准: 蒸发器进出口水温差-10°C/-15°C;  
2.冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;  
3.制冷剂充注量: -15°C ~ -5°C;  
4.规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

- Note:  
1.Rated cooling capacity based: Chilled Liquid water in/outlet -10°C/-15°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;  
2.Chilled Liquid range: -15°C ~ -5°C;  
3.Cooling water range: 15°C ~ 40°C;  
4.Changes of Specification for Improvement May be Made Without Notice.

出水温度: -15°C Water outlet temperature -15°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 480DL 520DL 565DL 590DL 685DL 750DL 800DL 900DL 1130DL 1330DL 1525DL   |         |         |         |         |         |         |         |         |         |         |         |  |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|   | 480DLR 520DLR 565DLR 590DLR 685DLR 750DLR 800DLR 900DLR 1130DLR 1330DLR 1525DLR  |         |         |         |         |         |         |         |         |         |         |         |  |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 409.3   | 448.6   | 485.8   | 504.7   | 588.1   | 645.7   | 688.7   | 776.4   | 972.1   | 1145.5  | 1309.1  |  |
|   | KW   | 476     | 522     | 565     | 587     | 684     | 751     | 801     | 903     | 1131    | 1332    | 1523    |  |
|   | USRT   | 135.3   | 148.4   | 160.6   | 166.9   | 194.5   | 213.5   | 227.8   | 256.8   | 321.5   | 378.8   | 432.9   |  |
| 输入功率 Input Power                            | KW   | 200.4   | 217.0   | 233.6   | 241.2   | 277.8   | 308.2   | 327.2   | 368.0   | 449.0   | 526.2   | 595.2   |  |
| 压缩机输入功率系数 Comp.Input Power/Qty (kw)         |  | 100.2×2 | 108.5×2 | 116.8×2 | 120.6×2 | 138.9×2 | 154.1×2 | 163.6×2 | 184.0×2 | 224.5×2 | 263.1×2 | 297.6×2 |  |
| 机组运行电流 Comp.Current (A)                     |  | 336.8   | 365.0   | 392.8   | 405.4   | 467.0   | 518.0   | 550.2   | 618.8   | 754.8   | 884.6   | 1000.6  |  |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |         |         |         |         |         |         |  |
| 保护装置 Protection Device                      | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low/High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |         |         |         |  |
| 制冷回路 Number of Refrigeration Circuit        | 2  |         |         |         |         |         |         |         |         |         |         |         |  |
| 能量控制 Capacity Control (%)                   | 0, 25,37,5,50,62,5,75,87,5,100   |         |         |         |         |         |         |         |         |         |         |         |  |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188  | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |  |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |         |         |         |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |         |         |         |  |
| 冷凝器进出口管径 Dia.of Pipe to Condenser (inch)    | 4"×2   | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 6"×2    | 6"×2    | 6"×2    | 6"×2    | 8"×2    |  |
| 冷却水流量 Cooling Water Flow (m³/h)             | 116.3  | 127.1   | 137.3   | 142.4   | 165.4   | 182.1   | 194.0   | 218.6   | 271.6   | 319.6   | 364.2   |         |  |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 43   | 44      | 47      | 50      | 56      | 58      | 63      | 69      | 72      | 75      | 80      |         |  |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |         |         |         |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |         |         |         |  |
| 蒸发器进出口管径 Dia.of Pipe to Evaporator (inch)   | 6"   | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |  |
| 40%乙二醇水溶液流量40% Glycol Flow Volume (m³/h)    | 94.1   | 103.2   | 111.7   | 116.0   | 135.2   | 148.4   | 158.3   | 178.4   | 223.4   | 263.3   | 300.9   |         |  |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 58   | 35      | 38      | 68      | 73      | 95      | 63      | 69      | 72      | 75      | 80      |         |  |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75      | 75      | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |  |
| 整机重量 Total weight (Kg)                      | 4560   | 4940    | 5350    | 5890    | 6390    | 6850    | 7080    | 7330    | 9000    | 9700    | 10300   |         |  |
| 运行重量 Running Weight (Kg)                    | 5780   | 6260    | 6700    | 6940    | 7170    | 7430    | 7760    | 8110    | 10180   | 11000   | 11600   |         |  |

热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 196                     | 214            | 230            | 240            | 280            | 308            | 328            | 370            | 456            | 532   | 612   |       |  |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|-------|--|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 122.8          | 134.7          | 145.7          | 151.4          | 176.4          | 193.7          | 206.6          | 232.9          | 291.6 | 343.6 | 392.7 |  |
|   | KW                      | 143            | 157            | 170            | 176            | 205            | 225            | 240            | 271            | 339   | 400   | 457   |  |
|   | USRT                    | 40.6           | 44.5           | 48.2           | 50.1           | 58.3           | 64.1           | 68.3           | 77.0           | 96.4  | 113.8 | 129.9 |  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |       |       |       |  |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |       |       |       |  |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       | 3"                      | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 4"             | 5"             | 5"    | 5"    |       |  |
| 卫生热水量 Reclaimed Water Flow(m³/h)                    | 24.6                    | 26.9           | 29.1           | 30.3           | 35.3           | 38.7           | 41.3           | 46.6           | 58.3           | 68.7  | 78.5  |       |  |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34                      | 35             | 38             | 38             | 39             | 42             | 43             | 43             | 43             | 43    | 43    |       |  |
| 整机重量 Total weight (Kg)                              | 4920                    | 5520           | 5930           | 6540           | 7210           | 7670           | 7900           | 8150           | 9250           | 10180 | 10780 |       |  |
| 运行重量 Running Weight (Kg)                            | 6130                    | 6840           | 7280           | 7590           | 7990           | 8250           | 8580           | 8930           | 10420          | 11380 | 12000 |       |  |
| 机组尺寸 Dimension L×W×H                                | 4100×2050×2200          | 3800×2050×2300 | 4500×2050×2450 | 4500×2050×2500 | 4600×2100×2500 | 4800×2100×2600 | 3800×2250×2600 | 4700×2250×2800 | 5200×2250×2800 |       |       |       |  |

- 注:  
1.名义制冷量基准: 蒸发器进出口水温差-10°C/-15°C;  
2.冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;  
3.制冷剂充注量: -15°C ~ -5°C;  
4.规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

- Note:  
1.Rated cooling capacity based: Chilled Liquid water in/outlet -10°C/-15°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;  
2.Chilled Liquid range: -15°C ~ -5°C;  
3.Cooling water range: 15°C ~ 40°C;  
4.Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -15°C Water outlet temperature -15°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                             | 50SLY 65SLY 85SLY 110SLY 125SLY 145SLY 170SLY 185SLY 200SLY 240SLY 280SLY 300SLY  |        |        |        |        |        |             |        |        |         |         |         |         |
|--|---|--------|--------|--------|--------|--------|-------------|--------|--------|---------|---------|---------|---------|
|  | 50SLY   | 65SLY  | 85SLY  | 110SLY | 125SLY | 145SLY | 170SLY      | 185SLY | 200SLY | 240SLY  | 280SLY  | 300SLY  |         |
| 名义制冷量<br>Rated Cooling Capacity            | X1000 Kcal/h  | 42.1   | 55.9   | 72.2   | 96.3   | 108.3  | 124.7       | 144.5  | 159.1  | 172.0   | 204.6   | 239.0   | 254.5   |
|  | KW  | 49     | 65     | 84     | 112    | 126    | 145         | 168    | 185    | 200     | 238     | 278     | 296     |
|  | USRT  | 13.9   | 18.5   | 23.9   | 31.8   | 35.6   | 41.2        | 47.8   | 52.6   | 56.9    | 67.7    | 79.0    | 84.2    |
| 输入功率 Input Power                           | KW  | 26.6   | 34.9   | 44.4   | 58.1   | 65.3   | 74.3        | 85.9   | 93.5   | 102.4   | 120.9   | 142.0   | 150.6   |
| 压缩机输入功率台数 Comp. Input Power/Qty (kw)       |   | 26.6x1 | 34.9x1 | 44.4x1 | 58.1x1 | 65.3x1 | 74.3x1      | 85.9x1 | 93.5x1 | 102.4x1 | 120.9x1 | 142.0x1 | 150.6x1 |
| 机组运行电流 Comp. Current (A)                   |   | 44.6   | 58.7   | 74.6   | 97.6   | 109.7  | 125.0       | 144.4  | 157.2  | 172.2   | 203.3   | 238.8   | 253.2   |
| 电源 Power Supply                            | 3 φ-380V-50HZ   |        |        |        |        |        |             |        |        |         |         |         |         |
| 保护装置 Protection Device                     | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |             |        |        |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit       | 1   |        |        |        |        |        |             |        |        |         |         |         |         |
| 能量控制 Capacity Control (%)                  | 0,66,100  |        |        |        |        |        | 0,50,75,100 |        |        |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)             | 18  | 25     | 32     | 42     | 46     | 55     | 62          | 68     | 75     | 90      | 102     | 110     |         |
| 冷凝器 Condenser                              | 壳管式 Shell and Tube Type   |        |        |        |        |        |             |        |        |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)       | 1   |        |        |        |        |        |             |        |        |         |         |         |         |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)   | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 5"      | 5"      | 5"      |         |
| 冷却水流量 Cooling Water Flow (m³/h)            | 13.0  | 17.2   | 22.1   | 29.3   | 32.9   | 37.7   | 43.7        | 47.9   | 52.0   | 61.7    | 72.2    | 76.8    |         |
| 冷凝器水压降 Condenser Water Pressure drop(Pa)   | 35  | 40     | 39     | 46     | 45     | 44     | 43          | 43     | 43     | 44      | 44      | 44      |         |
| 蒸发器 Evaporator                             | 壳管式 Shell and Tube Type   |        |        |        |        |        |             |        |        |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)       | 1   |        |        |        |        |        |             |        |        |         |         |         |         |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)  | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 4"      | 5"      | 5"      |         |
| 40%乙二醇水溶液流量 40% Glycol Flow Volume (m³/h)  | 9.7   | 12.8   | 16.6   | 22.1   | 24.9   | 28.7   | 33.2        | 36.6   | 39.5   | 47.0    | 54.9    | 58.5    |         |
| 蒸发器水压降 Evaporator Water Pressure drop (Pa) | 26  | 34     | 38     | 43     | 55     | 67     | 74          | 80     | 77     | 52      | 57      | 76      |         |
| 运转噪音 Running Noise dB(A)                   | 73.1  | 73.7   | 74.8   | 75.0   | 75.0   | 75.0   | 75.0        | 75.0   | 75.0   | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                     | 1070  | 1100   | 1290   | 1450   | 1640   | 1780   | 2010        | 2130   | 2300   | 2650    | 2800    | 3010    |         |
| 运行重量 Running Weight (Kg)                   | 1170  | 1210   | 1460   | 1630   | 1800   | 1950   | 2190        | 2290   | 2510   | 2930    | 3080    | 3300    |         |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                      | 21                      | 28            | 35            | 45            | 49             | 58             | 65             | 71             | 78             | 95             | 107            | 115            |
|--|-------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 热回收量<br>Heat Reclaimed Volume                      | X1000 Kcal/h            | 12.6          | 16.8          | 21.7          | 28.9           | 32.5           | 37.4           | 43.3           | 47.7           | 51.6           | 61.4           | 71.7           |
|  | KW                      | 15            | 20            | 25            | 34             | 38             | 44             | 50             | 56             | 60             | 71             | 83             |
|  | USRT                    | 4.2           | 5.5           | 7.2           | 9.6            | 10.7           | 12.4           | 14.3           | 15.8           | 17.1           | 20.3           | 23.7           |
| 热回收器 Heat Recoverer                                | 壳管式 Shell and Tube Type |               |               |               |                |                |                |                |                |                |                |                |
| 水侧最高承压 Water Side Max Pressure (MPa)               | 1                       |               |               |               |                |                |                |                |                |                |                |                |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer (inch)     | 1"                      | 1-1/2"        | 1-1/2"        | 1-1/2"        | 1-1/2"         | 2"             | 2"             | 2"             | 2"             | 2"             | 2-1/2"         | 2-1/2"         |
| 卫生热流量 Reclaimed Water Flow (m³/h)                  | 2.5                     | 3.4           | 4.3           | 5.8           | 6.5            | 7.5            | 8.7            | 9.5            | 10.3           | 12.3           | 14.3           | 15.3           |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(Pa) | 21                      | 24            | 23            | 28            | 27             | 27             | 26             | 26             | 26             | 26             | 27             | 26             |
| 整机重量 Total weight (Kg)                             | 1130                    | 1180          | 1390          | 1550          | 1780           | 1920           | 2190           | 2310           | 2510           | 2900           | 3050           | 3350           |
| 运行重量 Running Weight (Kg)                           | 1230                    | 1270          | 1560          | 1730          | 1940           | 2090           | 2370           | 2470           | 2720           | 3180           | 3330           | 3640           |
| 机组尺寸 Dimension LxWxH                               | 2200x800x1500           | 2250x850x1500 | 2350x900x1600 | 2500x900x1800 | 2600x1000x1800 | 2800x1000x1800 | 2900x1200x1800 | 2900x1400x1800 | 2950x1400x1800 | 3000x1700x1900 | 3300x1700x1900 | 3600x1700x1900 |

注:

- 名义制冷量基准: 蒸发器进出口水温差 -10°C/ -15°C, 冷凝器进口水温 30°C/35°C, 污垢系数: 0.088 m²·°C/KW;
- 冷冻水温度范围: -15°C ~ -5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -10°C/ -15°C, cooling water in/outlet 30°C/35°C, Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -15°C ~ -5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -15°C Water outlet temperature -15°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 310SLY 360SLY 395SLY 425SLY 475SLY 595SLY 700SLY 780SLY 95DLY 225DLY 250DLY 335DLY  |         |         |         |         |         |                                      |         |         |        |        |        |        |
|---|---|---------|---------|---------|---------|---------|--------------------------------------|---------|---------|--------|--------|--------|--------|
|   | 310SLY  | 360SLY  | 395SLY  | 425SLY  | 475SLY  | 595SLY  | 700SLY                               | 780SLY  | 95DLY   | 225DLY | 250DLY | 335DLY |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 266.6   | 309.5   | 339.6   | 365.4   | 407.6   | 510.7                                | 601.0   | 670.7   | 83.4   | 193.5  | 216.7  | 288.9  |
|   | KW  | 310     | 360     | 395     | 425     | 474     | 594                                  | 699     | 780     | 97     | 225    | 252    | 336    |
|   | USRT  | 88.1    | 102.4   | 112.3   | 120.8   | 134.8   | 168.9                                | 198.7   | 221.8   | 27.6   | 64.0   | 71.7   | 95.5   |
| 输入功率 Input Power                            | KW  | 158.6   | 182.7   | 200.7   | 213.7   | 237.5   | 302.2                                | 353.8   | 391.1   | 53.2   | 116.2  | 130.6  | 171.8  |
| 压缩机输入功率台数 Comp. Input Power/Qty (kw)        |   | 158.6x1 | 182.7x1 | 200.7x1 | 213.7x1 | 237.5x1 | 302.2x1                              | 353.8x1 | 391.1x1 | 26.6x1 | 58.1x1 | 65.3x1 | 85.9x1 |
| 机组运行电流 Comp. Current (A)                    |   | 266.6   | 307.2   | 337.4   | 359.3   | 399.3   | 508.0                                | 594.9   | 657.5   | 89.6   | 195.2  | 219.4  | 288.8  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1   |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0,50,75,100   |         |         |         |         |         | 0, 25, 37.5, 50, 62.5, 75, 87.5, 100 |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 115   | 134     | 148     | 158     | 177     | 218     | 256                                  | 292     | 36      | 84     | 92     | 124    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    | 5"  | 5"      | 5"      | 5"      | 6"      | 6"      | 6"                                   | 6"      | 3"      | 4"     | 5"     | 5"     |        |
| 冷却水流量 Cooling Water Flow (m³/h)             | 80.6  | 93.3    | 102.4   | 109.8   | 122.4   | 154.1   | 181.0                                | 201.4   | 25.8    | 58.7   | 65.8   | 87.3   |        |
| 冷凝器水压降 Condenser Water Pressure drop(Pa)    | 50  | 56      | 58      | 59      | 61      | 63      | 72                                   | 76      | 38      | 41     | 42     | 42     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |         |         |         |         |         |                                      |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia of Pipe to Evaporator (inch)   | 5"  | 5"      | 5"      | 5"      | 5"      | 6"      | 6"                                   | 6"      | 3"      | 5"     | 5"     | 5"     |        |
| 40%乙二醇水溶液流量 40% Glycol Flow Volume (m³/h)   | 61.3  | 71.1    | 78.1    | 84.0    | 93.7    | 117.4   | 138.1                                | 154.1   | 19.2    | 44.5   | 49.8   | 66.4   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 96  | 48      | 70      | 84      | 87      | 90      | 92                                   | 95      | 38      | 51     | 65     | 54     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0                                 | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 3100  | 3300    | 3540    | 3620    | 4000    | 4320    | 4580                                 | 4950    | 1740    | 2680   | 3010   | 3660   |        |
| 运行重量 Running Weight (Kg)                    | 3530  | 3720    | 4070    | 4320    | 4570    | 4900    | 5180                                 | 5550    | 2170    | 3480   | 3920   | 4760   |        |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                      | 120                     | 140            | 154            | 164            | 165            | 228            | 266            | 306            | 42             | 90             | 96             | 130            |
|--|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 热回收量<br>Heat Reclaimed Volume                      | X1000 Kcal/h            | 80.0           | 92.9           | 101.9          | 109.6          | 122.3          | 153.2          | 180.3          | 201.2          | 25.0           | 58.0           | 65.0           |
|  | KW                      | 93             | 108            | 119            | 128            | 142            | 178            | 210            | 234            | 29             | 68             | 76             |
|  | USRT                    | 26.4           | 30.7           | 33.7           | 36.3           | 40.4           | 50.7           | 59.6           | 66.5           | 8.3            | 19.2           | 21.5           |
| 热回收器 Heat Recoverer                                | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |                |                |
| 水侧最高承压 Water Side Max Pressure (MPa)               | 1                       |                |                |                |                |                |                |                |                |                |                |                |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer (inch)     | 2-1/2"                  | 3"             | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 2"             | 2-1/2"         | 2-1/2"         | 2-1/2"         |
| 卫生热流量 Reclaimed Water Flow (m³/h)                  | 16.0                    | 18.6           | 20.4           | 21.9           | 24.5           | 30.6           | 36.1           | 40.2           | 5.0            | 11.6           | 13.0           | 17.3           |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(Pa) | 26                      | 26             | 27             | 30             | 32             | 34             | 35             | 35             | 23             | 26             | 26             | 28             |
| 整机重量 Total weight (Kg)                             | 3440                    | 3680           | 3920           | 4200           | 4380           | 4880           | 5240           | 5840           | 1870           | 2930           | 3260           | 4010           |
| 运行重量 Running Weight (Kg)                           | 3870                    | 4100           | 4450           | 4700           | 4950           | 5490           | 5860           | 6270           | 2300           | 3730           | 4220           | 5110           |
| 机组尺寸 Dimension LxWxH                               | 3600x1700x1600          | 3600x1700x1600 | 3600x1700x1600 | 3600x1700x1600 | 3600x1600x1700 | 4000x1800x1900 | 4600x2000x2000 | 2600x1300x1600 | 3300x1300x1700 | 3300x1400x1500 | 3400x1400x1500 | 3400x1400x1500 |

注:

- 名义制冷量基准: 蒸发器进出口水温差 -10°C/ -15°C, 冷凝器进口水温 30°C/35°C, 污垢系数: 0.088 m²·°C/KW;
- 冷冻水温度范围: -15°C ~ -5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -10°C/ -15°C, cooling water in/outlet 30°C/35°C, Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -15°C ~ -5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -15°C Water outlet temperature -15°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              |  | 590DLY  | 555DLY  | 590DLY  | 620DLY  | 720DLY  | 790DLY  | 850DLY  | 950DLY  | 1190DLY  | 1400DLY  | 1560DLY  |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
|   |  | 590DLRY | 555DLRY | 590DLRY | 620DLRY | 720DLRY | 790DLRY | 850DLRY | 950DLRY | 1190DLRY | 1400DLRY | 1560DLRY |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 431.6   | 477.2   | 509.0   | 532.2   | 618.2   | 679.3   | 730.0   | 815.1   | 1020.6   | 1202.1   | 1342.2   |
|   | KW   | 502     | 555     | 592     | 619     | 719     | 790     | 849     | 948     | 1187     | 1398     | 1561     |
|   | USRT   | 142.7   | 157.8   | 168.3   | 176.0   | 204.4   | 224.6   | 241.4   | 269.5   | 337.5    | 397.5    | 443.8    |
| 输入功率 Input Power                            | KW   | 255.4   | 284.0   | 301.2   | 317.2   | 365.4   | 401.4   | 427.4   | 475.0   | 604.4    | 707.6    | 782.2    |
| 压缩机输入功率台数 Comp.Input Power Qty (kw)         |  | 127.7×1 | 142.0×1 | 150.6×1 | 158.6×1 | 182.7×1 | 200.7×1 | 213.7×1 | 237.5×1 | 302.2×1  | 353.8×1  | 391.1×1  |
| 机组运行电流 Comp.Current (A)                     |  | 429.4   | 477.6   | 506.4   | 533.2   | 614.4   | 674.8   | 718.6   | 798.6   | 1016.0   | 1189.8   | 1315.0   |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |         |         |         |         |         |         |         |         |          |          |          |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |         |          |          |          |
| 制冷回路 Number of Refrigeration Circuit        | 2  |         |         |         |         |         |         |         |         |          |          |          |
| 能量控制 Capacity Control (%)                   | 0, 25, 37.5, 50, 62.5, 75, 87.5, 100   |         |         |         |         |         |         |         |         |          |          |          |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188  | 204     | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512      | 584      |          |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |          |          |          |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |          |          |          |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)   | 4"×2   | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 6"×2    | 6"×2    | 8"×2     | 8"×2     |          |
| 冷却水流量 Cooling Water Flow (m³/h)             | 130.2  | 144.3   | 153.6   | 161.0   | 186.5   | 204.9   | 219.5   | 244.7   | 308.1   | 362.1    | 403.0    |          |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 43   | 44      | 47      | 50      | 56      | 58      | 63      | 69      | 72      | 75       | 80       |          |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |         |         |         |         |         |         |         |         |          |          |          |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |         |         |         |         |         |         |         |         |          |          |          |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  | 6"   | 6"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"      | 10"      |          |
| 40%乙二醇水溶液流量 40% Glycol Flow Volume (m³/h)   | 99.2   | 109.7   | 117.0   | 122.3   | 142.1   | 156.1   | 167.8   | 187.3   | 234.6   | 276.3    | 308.5    |          |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 58   | 35      | 36      | 68      | 73      | 95      | 63      | 69      | 72      | 75       | 80       |          |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0     | 75.0     |          |
| 整机重量 Total weight (Kg)                      | 4560   | 4940    | 5350    | 5890    | 6390    | 6850    | 7080    | 7330    | 9000    | 9700     | 10300    |          |
| 运行重量 Running Weight (Kg)                    | 5780   | 6260    | 6700    | 6940    | 7170    | 7430    | 7760    | 8110    | 10160   | 11000    | 11600    |          |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       |  | 196   | 214   | 230   | 240   | 280   | 308   | 328   | 370   | 466   | 532   | 612   |
|---|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h   | 129.5 | 143.2 | 152.7 | 159.7 | 185.5 | 203.8 | 219.0 | 244.5 | 306.2 | 360.6 | 402.7 |
|   | KW   | 151   | 167   | 176   | 186   | 216   | 237   | 255   | 284   | 366   | 419   | 468   |
|   | USRT   | 42.8  | 47.3  | 50.5  | 52.8  | 61.3  | 67.4  | 72.4  | 80.9  | 101.3 | 119.2 | 133.2 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type  |       |       |       |       |       |       |       |       |       |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |       |       |       |       |       |       |       |       |       |       |       |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 3"   | 3"    | 3"    | 3"    | 4"    | 4"    | 4"    | 4"    | 5"    | 5"    | 5"    |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 25.9   | 28.6  | 30.5  | 31.9  | 37.1  | 40.8  | 43.8  | 48.9  | 61.2  | 72.1  | 80.5  |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34   | 35    | 38    | 38    | 39    | 42    | 43    | 43    | 43    | 43    | 43    |       |
| 整机重量 Total weight (Kg)                              | 4920   | 5520  | 5930  | 6540  | 7210  | 7670  | 7900  | 8150  | 9250  | 10180 | 10780 |       |
| 运行重量 Running Weight (Kg)                            | 6130   | 6640  | 7280  | 7590  | 7990  | 8250  | 8580  | 8930  | 10420 | 11380 | 12000 |       |
| 机组尺寸 Dimension L×W×H                                | 4100×2050×2200 3800×2050×2300 4300×2050×2400 4500×2050×2500 4600×2100×2500 4600×2100×2600 3900×2250×2600 4700×2250×2800 5200×2250×2800 |       |       |       |       |       |       |       |       |       |       |       |

注:

- 名义制冷量基准: 蒸发器进出口水溶液温度 -10°C / -15°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -15°C ~ -5°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -10°C / -15°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -15°C ~ -5°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -35°C Water outlet temperature -35°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              |  | 17SJ   | 23SJ   | 30SJ   | 40SJ   | 43SJ   | 50SJ   | 60SJ   | 65SJ   | 70SJ   | 85SJ   | 97SJ   | 105SJ  |
|---|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|   |  | 17SJR  | 23SJR  | 30SJR  | 40SJR  | 43SJR  | 50SJR  | 60SJR  | 65SJR  | 70SJR  | 85SJR  | 97SJR  | 105SJR |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h   | 14.2   | 19.4   | 25.5   | 33.9   | 37.2   | 44     | 50.9   | 55.1   | 60.6   | 72.2   | 83.6   | 90.5   |
|   | KW   | 17     | 23     | 30     | 39     | 43     | 51     | 59     | 64     | 71     | 84     | 97     | 105    |
|   | USRT   | 4.7    | 6.4    | 8.4    | 11.2   | 12.3   | 14.6   | 16.8   | 18.2   | 20.0   | 23.9   | 27.6   | 29.9   |
| 输入功率 Input Power                            | KW   | 17.2   | 22.9   | 29.3   | 39.0   | 42.6   | 46.8   | 56.5   | 61.5   | 68.1   | 79.8   | 91.7   | 98.9   |
| 压缩机输入功率台数 Comp.Input Power Qty (kw)         |  | 17.2×1 | 22.9×1 | 29.3×1 | 39.0×1 | 42.6×1 | 46.8×1 | 56.5×1 | 61.5×1 | 68.1×1 | 79.8×1 | 91.7×1 | 98.9×1 |
| 机组运行电流 Comp.Current (A)                     |  | 28.9   | 38.6   | 49.2   | 65.6   | 71.6   | 82.1   | 95.0   | 103.3  | 114.4  | 134.2  | 154.1  | 166.3  |
| 电源 Power Supply                             | 3 φ-380V-50HZ  |        |        |        |        |        |        |        |        |        |        |        |        |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection, Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |        |        |        |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        | 1  |        |        |        |        |        |        |        |        |        |        |        |        |
| 能量控制 Capacity Control (%)                   | 0.66, 100  |        |        |        |        |        |        |        |        |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              | 18   | 25     | 32     | 42     | 46     | 55     | 62     | 68     | 75     | 90     | 102    | 110    |        |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type  |        |        |        |        |        |        |        |        |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |        |        |        |        |        |        |        |        |        |        |        |        |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)   | 2"   | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     | 5"     | 5"     |
| 冷却水流量 Cooling Water Flow (m³/h)             | 5.8  | 7.8    | 10.1   | 13.5   | 14.8   | 17.2   | 19.9   | 21.6   | 23.8   | 28.2   | 32.5   | 35.1   |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   | 35   | 40     | 39     | 46     | 45     | 44     | 43     | 43     | 43     | 44     | 44     | 44     |        |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type  |        |        |        |        |        |        |        |        |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1  |        |        |        |        |        |        |        |        |        |        |        |        |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  | 2"   | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     | 5"     |        |
| 50%乙二醇水溶液流量 50% Glycol Flow Volume (m³/h)   | 3.6  | 5.0    | 6.6    | 8.7    | 9.6    | 11.3   | 13.1   | 14.2   | 15.6   | 18.5   | 21.5   | 23.2   |        |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 27   | 34     | 39     | 43     | 56     | 27     | 26     | 82     | 78     | 53     | 56     | 78     |        |
| 运转噪音 Running Noise dB(A)                    | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   |        |
| 整机重量 Total weight (Kg)                      | 1100   | 1160   | 1340   | 1500   | 1670   | 1820   | 2070   | 2190   | 2380   | 2720   | 2830   | 3060   |        |
| 运行重量 Running Weight (Kg)                    | 1200   | 1270   | 1510   | 1680   | 1830   | 1990   | 2260   | 2350   | 2590   | 3000   | 3120   | 3350   |        |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       |  | 18     | 25     | 32     | 42     | 46   | 55   | 62   | 68   | 75   | 90     | 102    | 110  |
|---|--|--------|--------|--------|--------|------|------|------|------|------|--------|--------|------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h   | 4.3    | 5.8    | 7.7    | 10.2   | 11.2 | 13.2 | 15.3 | 16.5 | 18.2 | 21.7   | 25.1   | 27.2 |
|   | KW   | 5      | 7      | 9      | 12     | 13   | 15   | 18   | 19   | 21   | 25     | 29     | 32   |
|   | USRT   | 1.4    | 1.9    | 2.5    | 3.4    | 3.7  | 4.4  | 5.0  | 5.5  | 6.0  | 7.2    | 8.3    | 9.0  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type  |        |        |        |        |      |      |      |      |      |        |        |      |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1  |        |        |        |        |      |      |      |      |      |        |        |      |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 1"   | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2"   | 2"   | 2"   | 2"   | 2"   | 2-1/2" | 2-1/2" |      |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 0.9  | 1.2    | 1.5    | 2.0    | 2.2    | 2.6  | 3.1  | 3.3  | 3.6  | 4.3  | 5.0    | 5.4    |      |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21   | 24     | 23     | 28     | 27     | 27   | 26   | 26   | 26   | 26   | 27     | 26     |      |
| 整机重量 Total weight (Kg)                              | 1140   | 1220   | 1440   | 1640   | 1810   | 1960 | 2250 | 2370 | 2590 | 2970 | 3080   | 3400   |      |
| 运行重量 Running Weight (Kg)                            | 1240   | 1330   | 1610   | 1820   | 1970   | 2130 | 2400 | 2530 | 2800 | 3250 | 3370   | 3690   |      |
| 机组尺寸 Dimension L×W×H                                | 2000×1000×1000 2200×1000×1050 2500×1000×1100 2600×1000×1100 2800×1000×1150 2800×1000×1180 2800×1000×1180 2900×1000×1180 3000×1000×1180 3000×1000×1180 3000×1000×1180 3000×1000×1180 3000×1000×1180 |        |        |        |        |      |      |      |      |      |        |        |      |

注:

- 名义制冷量基准: 蒸发器进出口水溶液温度 -35°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -35°C ~ -25°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -35°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -35°C ~ -25°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -35°C Water outlet temperature -35°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 制冷剂 Refrigerant R22 |   |         |         |         |         |         |         |         |        |        |        |        |
|---|---------------------|---|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
|   | 110SJ               | 130SJ   | 140SJ   | 150SJ   | 170SJ   | 230SJ   | 275SJ   | 315SJ   | 35DJ    | 80DJ   | 90DJ   | 120DJ  |        |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h        | 94.2  | 109.7   | 120.4   | 128.5   | 145.0   | 199.7   | 235.2   | 268.8   | 28.4   | 67.8   | 74.5   | 101.8  |
|   | KW                  | 110   | 126     | 140     | 150     | 169     | 232     | 274     | 313     | 33     | 79     | 87     | 118    |
|   | USRT                | 31.1  | 36.3    | 39.8    | 42.5    | 47.9    | 66.0    | 77.6    | 88.9    | 9.4    | 22.4   | 24.6   | 33.7   |
| 输入功率 Input Power                            | KW                  | 102.3   | 118.4   | 130.8   | 139.2   | 156.7   | 191.6   | 225.0   | 255.5   | 34.4   | 78.0   | 85.2   | 113.0  |
| 压缩机输入功率×台数 Comp.Input Power/Qty (kw)        |                     | 102.3×1   | 118.4×1 | 130.8×1 | 139.2×1 | 156.7×1 | 191.6×1 | 225.0×1 | 255.5×1 | 17.2×2 | 39.0×2 | 42.6×2 | 56.5×2 |
| 机组运行电流 Comp.Current (A)                     |                     | 172.1   | 199.1   | 220     | 234.1   | 263.5   | 322.1   | 378.2   | 429.6   | 57.8   | 131.2  | 143.2  | 180.0  |
| 电源 Power Supply                             |                     | 3 φ-380V-50HZ   |         |         |         |         |         |         |         |        |        |        |        |
| 保护装置 Protection Device                      |                     | 应相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |         |         |        |        |        |        |
| 制冷回路 Number of Refrigeration Circuit        |                     | 1   |         |         |         |         |         |         |         |        |        |        |        |
| 能量控制 Capacity Control (%)                   |                     | 0,50,75,100   |         |         |         |         |         |         |         |        |        |        |        |
| 制冷剂充注量 Refrigerant Charge (kg)              |                     | 115   | 134     | 148     | 158     | 177     | 218     | 256     | 292     | 36     | 84     | 92     | 124    |
| 冷凝器 Condenser                               |                     | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        |                     | 1   |         |         |         |         |         |         |         |        |        |        |        |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)   |                     | 5"  | 5"      | 5"      | 5"      | 6"      | 6"      | 8"      | 8"      | 3"     | 4"     | 5"     | 5"     |
| 冷却水流量 Cooling Water Flow (m³/h)             |                     | 36.4  | 42.3    | 46.6    | 49.6    | 55.9    | 72.0    | 85.7    | 97.7    | 11.6   | 27.0   | 29.5   | 39.8   |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   |                     | 50  | 56      | 58      | 59      | 61      | 63      | 72      | 76      | 38     | 41     | 42     | 42     |
| 蒸发器 Evaporator                              |                     | 壳管式 Shell and Tube Type   |         |         |         |         |         |         |         |        |        |        |        |
| 水侧最高承压 Water Side Max Pressure (MPa)        |                     | 1   |         |         |         |         |         |         |         |        |        |        |        |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  |                     | 5"  | 5"      | 5"      | 5"      | 5"      | 8"      | 8"      | 8"      | 3"     | 5"     | 5"     | 5"     |
| 55%乙二醇水溶液流量 55% Glycol Flow Volume (m³/h)   |                     | 24.2  | 28.2    | 30.9    | 33.0    | 37.2    | 51.3    | 60.4    | 69.0    | 7.3    | 17.4   | 19.1   | 26.1   |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) |                     | 98  | 49      | 71      | 85      | 88      | 91      | 94      | 97      | 39     | 52     | 67     | 55     |
| 运转噪音 Running Noise dB(A)                    |                     | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0   | 75.0   | 75.0   | 75.0   |
| 整机重量 Total weight (Kg)                      |                     | 3160  | 3350    | 3590    | 3870    | 4050    | 4380    | 4640    | 5020    | 1820   | 2760   | 3100   | 3760   |
| 运行重量 Running Weight (Kg)                    |                     | 3580  | 3770    | 4120    | 4370    | 4620    | 4960    | 5240    | 5610    | 2250   | 3560   | 4010   | 4860   |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       |              | 115                     | 134            | 148            | 158            | 177            | 218            | 256            | 292            | 36             | 84             | 92             | 124            |
|---|--------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h | 28.2                    | 32.9           | 36.1           | 38.6           | 43.5           | 59.9           | 70.6           | 80.6           | 8.5            | 20.3           | 22.3           | 30.5           |
|   | KW           | 33                      | 38             | 42             | 45             | 51             | 70             | 82             | 94             | 10             | 24             | 26             | 36             |
|   | USRT         | 9.3                     | 10.9           | 11.9           | 12.8           | 14.4           | 19.8           | 23.3           | 26.7           | 2.8            | 6.7            | 7.4            | 10.1           |
| 热回收器 Heat Recoverer                                 |              | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |                |                |
| 水侧最高承压 Water Side Max Pressure (MPa)                |              | 1                       |                |                |                |                |                |                |                |                |                |                |                |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       |              | 2-1/2"                  | 3"             | 3"             | 3"             | 3"             | 4"             | 4"             | 2"             | 2-1/2"         | 2-1/2"         | 2-1/2"         |                |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   |              | 5.6                     | 6.6            | 7.2            | 7.7            | 8.7            | 12.0           | 14.1           | 16.1           | 1.7            | 4.1            | 4.5            | 6.1            |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) |              | 26                      | 26             | 27             | 30             | 32             | 34             | 35             | 23             | 26             | 26             | 26             |                |
| 整机重量 Total weight (Kg)                              |              | 3500                    | 3730           | 3970           | 4250           | 4430           | 4760           | 5020           | 5400           | 1950           | 3010           | 3400           | 4110           |
| 运行重量 Running Weight (Kg)                            |              | 3920                    | 4150           | 4500           | 4750           | 5060           | 5340           | 5620           | 5990           | 2380           | 3810           | 4320           | 5230           |
| 机组尺寸 Dimension L×W×H                                |              | 3600×1750×1850          | 3600×1750×1850 | 3600×1750×1850 | 3600×1750×1850 | 3600×1850×1750 | 4600×1850×1850 | 4600×1900×2000 | 4600×1900×2000 | 2800×1300×1800 | 3200×1300×1750 | 3300×1400×1800 | 3400×1400×2000 |

注:

- 名义制冷量基准: 蒸发器进出口水溶液温度 -35°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -35°C ~ -25°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -35°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -35°C ~ -25°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -35°C Water outlet temperature -35°C

制冷剂 Refrigerant R22

| 型号 Model HLWD~                              | 制冷剂 Refrigerant R22 |   |        |        |         |         |         |         |         |         |         |         |  |
|---|---------------------|---|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|   | 180DJ               | 195DJ   | 210DJ  | 220DJ  | 255DJ   | 280DJ   | 300DJ   | 340DJ   | 465DJ   | 550DJ   | 625DJ   |         |  |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h        | 152.6   | 167.2  | 181.1  | 188.3   | 219.4   | 240.8   | 257.1   | 289.9   | 399.3   | 470.3   | 537.6   |  |
|   | KW                  | 178   | 194    | 211    | 219     | 255     | 280     | 299     | 337     | 464     | 547     | 625     |  |
|   | USRT                | 50.5  | 55.3   | 59.9   | 62.3    | 72.6    | 79.6    | 85.0    | 95.9    | 132.0   | 155.5   | 177.8   |  |
| 输入功率 Input Power                            | KW                  | 168.6   | 183.4  | 197.8  | 204.6   | 236.8   | 261.6   | 278.4   | 313.4   | 383.2   | 450.0   | 511.0   |  |
| 压缩机输入功率×台数 Comp.Input Power/Qty (kw)        |                     | 84.3×2  | 91.7×2 | 98.9×2 | 102.3×2 | 118.4×2 | 130.8×2 | 139.2×2 | 156.7×2 | 191.6×2 | 225.0×2 | 255.5×2 |  |
| 机组运行电流 Comp.Current (A)                     |                     | 283.4   | 308.2  | 332.6  | 344.2   | 398.2   | 440.0   | 468.2   | 527.0   | 644.2   | 756.4   | 859.2   |  |
| 电源 Power Supply                             |                     | 3 φ-380V-50HZ   |        |        |         |         |         |         |         |         |         |         |  |
| 保护装置 Protection Device                      |                     | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |         |         |         |         |         |         |         |         |  |
| 制冷回路 Number of Refrigeration Circuit        |                     | 2   |        |        |         |         |         |         |         |         |         |         |  |
| 能量控制 Capacity Control (%)                   |                     | 0, 25, 37, 5, 50, 62, 5, 75, 87, 5, 100   |        |        |         |         |         |         |         |         |         |         |  |
| 制冷剂充注量 Refrigerant Charge (kg)              |                     | 188   | 204    | 220    | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |  |
| 冷凝器 Condenser                               |                     | 壳管式 Shell and Tube Type   |        |        |         |         |         |         |         |         |         |         |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        |                     | 1   |        |        |         |         |         |         |         |         |         |         |  |
| 冷凝器进出口管径 Dia of Pipe to Condenser (inch)    |                     | 4"×2  | 5"×2   | 5"×2   | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 6"×2    | 6"×2    | 8"×2    | 8"×2    |  |
| 冷却水流量 Cooling Water Flow (m³/h)             |                     | 59.5  | 65.0   | 70.2   | 72.8    | 84.6    | 93.1    | 99.3    | 111.9   | 145.8   | 171.5   | 195.4   |  |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)   |                     | 43  | 44     | 47     | 50      | 56      | 58      | 63      | 69      | 72      | 75      | 80      |  |
| 蒸发器 Evaporator                              |                     | 壳管式 Shell and Tube Type   |        |        |         |         |         |         |         |         |         |         |  |
| 水侧最高承压 Water Side Max Pressure (MPa)        |                     | 1   |        |        |         |         |         |         |         |         |         |         |  |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  |                     | 6"  | 6"     | 8"     | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |  |
| 55%乙二醇水溶液流量 55% Glycol Flow Volume (m³/h)   |                     | 39.2  | 42.9   | 46.5   | 48.3    | 56.3    | 61.8    | 66.0    | 74.4    | 102.5   | 120.8   | 138.0   |  |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) |                     | 59  | 65     | 64     | 69      | 75      | 97      | 93      | 90      | 87      | 96      | 104     |  |
| 运转噪音 Running Noise dB(A)                    |                     | 75.0  | 75.0   | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |  |
| 整机重量 Total weight (Kg)                      |                     | 4650  | 5030   | 5440   | 6020    | 6510    | 6970    | 7200    | 7450    | 9120    | 9820    | 10450   |  |
| 运行重量 Running Weight (Kg)                    |                     | 5870  | 6350   | 6790   | 7060    | 7290    | 7550    | 7880    | 8230    | 10280   | 11150   | 11720   |  |

## 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       |              | 188                     | 204            | 220            | 230            | 268            | 296            | 316            | 354            | 436            | 512            | 584            |  |
|---|--------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h | 45.8                    | 50.1           | 54.3           | 56.5           | 65.8           | 72.2           | 77.1           | 87.0           | 119.8          | 141.1          | 161.3          |  |
|   | KW           | 53                      | 58             | 63             | 66             | 77             | 84             | 90             | 101            | 139            | 164            | 188            |  |
|   | USRT         | 15.1                    | 16.6           | 18.0           | 18.7           | 21.8           | 23.9           | 25.5           | 28.8           | 39.6           | 46.7           | 53.3           |  |
| 热回收器 Heat Recoverer                                 |              | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |                |  |
| 水侧最高承压 Water Side Max Pressure (MPa)                |              | 1                       |                |                |                |                |                |                |                |                |                |                |  |
| 热回收器进出口管径 Dia of pipe to Heat Recoverer(inch)       |              | 3"                      | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 4"             | 5"             | 5"             | 5"             |  |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   |              | 9.2                     | 10.0           | 10.9           | 11.3           | 13.2           | 14.4           | 15.4           | 17.4           | 24.0           | 28.2           | 32.3           |  |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) |              | 34                      | 35             | 36             | 38             | 39             | 42             | 43             | 43             | 43             | 43             | 43             |  |
| 整机重量 Total weight (Kg)                              |              | 5050                    | 5910           | 6090           | 6670           | 7330           | 7790           | 8020           | 8270           | 9940           | 10640          | 11270          |  |
| 运行重量 Running Weight (Kg)                            |              | 6270                    | 6930           | 7440           | 7720           | 8110           | 8370           | 8700           | 9050           | 11100          | 11970          | 12540          |  |
| 机组尺寸 Dimension L×W×H                                |              | 4100×2050×2200          | 4100×2050×2200 | 4500×2050×2200 | 4500×2050×2200 | 4800×2100×2500 | 4800×2100×2500 | 4800×2100×2500 | 4800×2100×2500 | 4600×2250×2600 | 4700×2250×2600 | 5250×2250×2600 |  |

注:

- 名义制冷量基准: 蒸发器进出口水溶液温度 -35°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -35°C ~ -25°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -35°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -35°C ~ -25°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





**(热回收)水冷螺杆式低温冷水机组**  
Low Temp. Screw-Type Water Chiller (Heat Recovery)

**(热回收)水冷螺杆式低温冷水机组**  
Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -35°C Water outlet temperature -35°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                             | 20SJY 25SJY 33SJY 43SJY 50SJY 56SJY 65SJY 72SJY 77SJY 92SJY 107SJY 114SJY   |        |        |        |        |        |             |        |        |        |         |         |         |
|--|---|--------|--------|--------|--------|--------|-------------|--------|--------|--------|---------|---------|---------|
|  | 20SJRY  | 25SJRY | 33SJRY | 43SJRY | 50SJRY | 56SJRY | 65SJRY      | 72SJRY | 77SJRY | 92SJRY | 107SJRY | 114SJRY |         |
| 名义制冷量<br>Rated Cooling Capacity            | X1000 Kcal/h  | 16.3   | 21.5   | 28.4   | 37.0   | 42.1   | 48.2        | 55.9   | 61.9   | 66.2   | 78.1    | 92.0    | 98.0    |
|  | KW  | 19     | 25     | 33     | 43     | 49     | 56          | 65     | 72     | 77     | 92      | 107     | 114     |
|  | USRT  | 5.4    | 7.1    | 9.4    | 12.2   | 13.9   | 15.9        | 18.5   | 20.5   | 21.9   | 26.2    | 30.4    | 32.4    |
| 输入功率 Input Power                           | KW  | 19.7   | 25.9   | 33.2   | 43.8   | 49.2   | 56.2        | 65.0   | 71.1   | 77.4   | 91.7    | 107.4   | 114.2   |
| 压缩机输入功率系数 Comp.Input Power/Qty (kw)        |   | 19.7×1 | 25.9×1 | 33.2×1 | 43.8×1 | 49.2×1 | 56.2×1      | 65.0×1 | 71.1×1 | 77.4×1 | 91.7×1  | 107.4×1 | 114.2×1 |
| 机组运行电流 Comp.Current (A)                    |   | 33.0   | 43.6   | 55.9   | 73.6   | 82.6   | 94.6        | 109.3  | 119.5  | 130.2  | 154.1   | 180.6   | 191.9   |
| 电源 Power Supply                            | 3 φ-380V-50HZ   |        |        |        |        |        |             |        |        |        |         |         |         |
| 保护装置 Protection Device                     | 液相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |        |        |        |        |             |        |        |        |         |         |         |
| 制冷回路 Number of Refrigeration Circuit       | 1   |        |        |        |        |        |             |        |        |        |         |         |         |
| 能量控制 Capacity Control (%)                  | 0.56,100  |        |        |        |        |        | 0.50,75,100 |        |        |        |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)             | 18  | 25     | 32     | 42     | 46     | 55     | 62          | 68     | 75     | 90     | 102     | 110     |         |
| 冷凝器 Condenser                              | 壳管式 Shell and Tube Type   |        |        |        |        |        |             |        |        |        |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)       | 1   |        |        |        |        |        |             |        |        |        |         |         |         |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)  | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 5"     | 5"      | 5"      |         |
| 冷却水流量 Cooling Water Flow (m³/h)            | 6.7   | 8.8    | 11.4   | 14.9   | 16.9   | 19.3   | 22.4        | 24.6   | 26.6   | 31.6   | 36.9    | 39.2    |         |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)  | 35  | 40     | 39     | 46     | 45     | 44     | 43          | 43     | 43     | 44     | 44      | 44      |         |
| 蒸发器 Evaporator                             | 壳管式 Shell and Tube Type   |        |        |        |        |        |             |        |        |        |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)       | 1   |        |        |        |        |        |             |        |        |        |         |         |         |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch) | 2"  | 2-1/2" | 3"     | 3"     | 3"     | 3"     | 4"          | 4"     | 4"     | 4"     | 5"      | 5"      |         |
| 55%乙二醇水溶液流量 55% Glycol Flow Volume (m³/h)  | 4.2   | 5.5    | 7.3    | 9.5    | 10.8   | 12.4   | 14.3        | 15.9   | 17.0   | 20.3   | 23.6    | 25.2    |         |
| 蒸发器水压降 Evaporator Water Pressure drop(kPa) | 27  | 34     | 39     | 43     | 56     | 27     | 26          | 82     | 78     | 53     | 58      | 78      |         |
| 运转噪音 Running Noise dB(A)                   | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0   | 75.0        | 75.0   | 75.0   | 75.0   | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                     | 1100  | 1160   | 1340   | 1500   | 1670   | 1820   | 2070        | 2190   | 2380   | 2720   | 2830    | 3060    |         |
| 运行重量 Running Weight (Kg)                   | 1200  | 1270   | 1510   | 1680   | 1830   | 1990   | 2260        | 2350   | 2590   | 3000   | 3120    | 3350    |         |

热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 18                      | 25            | 32            | 42             | 46             | 55             | 62             | 68             | 75             | 90             | 102            | 110            |      |
|---|-------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 4.9           | 6.4           | 8.5            | 11.1           | 12.6           | 14.4           | 16.8           | 18.6           | 19.9           | 23.7           | 27.6           | 29.4 |
|   | KW                      | 6             | 8             | 10             | 13             | 15             | 17             | 20             | 22             | 23             | 28             | 32             | 34   |
|   | USRT                    | 1.6           | 2.1           | 2.8            | 3.7            | 4.2            | 4.8            | 5.5            | 6.1            | 6.6            | 7.8            | 9.1            | 9.7  |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |               |               |                |                |                |                |                |                |                |                |                |      |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |               |               |                |                |                |                |                |                |                |                |                |      |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 1"                      | 1-1/2"        | 1-1/2"        | 1-1/2"         | 1-1/2"         | 2"             | 2"             | 2"             | 2"             | 2"             | 2-1/2"         | 2-1/2"         |      |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 1.0                     | 1.3           | 1.7           | 2.2            | 2.5            | 2.9            | 3.4            | 3.7            | 4.0            | 4.7            | 5.5            | 5.9            |      |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 21                      | 24            | 23            | 26             | 27             | 27             | 26             | 26             | 26             | 26             | 27             | 26             |      |
| 整机重量 Total weight (Kg)                              | 1140                    | 1220          | 1440          | 1640           | 1810           | 1960           | 2250           | 2370           | 2590           | 2970           | 3080           | 3400           |      |
| 运行重量 Running Weight (Kg)                            | 1240                    | 1330          | 1610          | 1820           | 1970           | 2130           | 2400           | 2530           | 2800           | 3250           | 3370           | 3690           |      |
| 机组尺寸 Dimension L*W*H                                | 2203*901*1581           | 2280*920*1590 | 2350*930*1600 | 2500*1000*1800 | 2600*1030*1800 | 2820*1080*1850 | 2920*1120*1850 | 3000*1140*1850 | 3200*1200*1900 | 3400*1250*1900 | 3600*1300*1900 | 3800*1350*1900 |      |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 -35°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -35°C ~ -25°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -35°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -35°C ~ -25°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

出水温度: -35°C Water outlet temperature -35°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                             | 120SJY 140SJY 150SJY 165SJY 183SJY 230SJY 270SJY 300SJY 38DJY 87DJY 97DJY 130DJY  |         |         |         |         |         |                               |         |         |        |        |         |        |
|--|---|---------|---------|---------|---------|---------|-------------------------------|---------|---------|--------|--------|---------|--------|
|  | 120SJRY   | 140SJRY | 150SJRY | 165SJRY | 183SJRY | 230SJRY | 270SJRY                       | 300SJRY | 38DJRY  | 87DJRY | 97DJRY | 130DJRY |        |
| 名义制冷量<br>Rated Cooling Capacity            | X1000 Kcal/h  | 102.3   | 119.5   | 130.7   | 141.0   | 157.4   | 196.9                         | 232.2   | 258.8   | 32.7   | 74.6   | 83.4    | 111.8  |
|  | KW  | 119     | 139     | 152     | 164     | 183     | 229                           | 270     | 301     | 38     | 87     | 97      | 130    |
|  | USRT  | 33.6    | 39.5    | 43.2    | 46.6    | 52.0    | 65.1                          | 76.8    | 85.6    | 10.8   | 24.7   | 27.6    | 37     |
| 输入功率 Input Power                           | KW  | 119.9   | 138.6   | 152.2   | 162.7   | 181.0   | 229                           | 268.7   | 298.2   | 39.4   | 87.6   | 98.4    | 130.0  |
| 压缩机输入功率系数 Comp.Input Power/Qty (kw)        |   | 119.9×1 | 138.6×1 | 152.2×1 | 162.7×1 | 181.0×1 | 229.0×1                       | 268.7×1 | 298.2×1 | 39.7×2 | 43.8×2 | 49.2×2  | 65.0×2 |
| 机组运行电流 Comp.Current (A)                    |   | 201.6   | 233.0   | 250.9   | 273.5   | 304.4   | 385                           | 451.8   | 501.3   | 66.0   | 147.2  | 165.2   | 218.6  |
| 电源 Power Supply                            | 3 φ-380V-50HZ   |         |         |         |         |         |                               |         |         |        |        |         |        |
| 保护装置 Protection Device                     | 逆相保护, 缺相保护, 过流保护, 排气温度保护, 高低压保护, 低温保护, 水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |         |         |         |         |         |                               |         |         |        |        |         |        |
| 制冷回路 Number of Refrigeration Circuit       | 1   |         |         |         |         |         |                               |         |         |        |        |         |        |
| 能量控制 Capacity Control (%)                  | 0.50,75,100   |         |         |         |         |         | 0.25,37.5,50,62.5,75,87.5,100 |         |         |        |        |         |        |
| 制冷剂充注量 Refrigerant Charge (kg)             | 115   | 134     | 148     | 158     | 177     | 218     | 256                           | 292     | 36      | 84     | 92     | 124     |        |
| 冷凝器 Condenser                              | 壳管式 Shell and Tube Type   |         |         |         |         |         |                               |         |         |        |        |         |        |
| 水侧最高承压 Water Side Max Pressure (MPa)       | 1   |         |         |         |         |         |                               |         |         |        |        |         |        |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)  | 5"  | 5"      | 5"      | 5"      | 6"      | 6"      | 8"                            | 8"      | 3"      | 4"     | 5"     | 5"      |        |
| 冷却水流量 Cooling Water Flow (m³/h)            | 41.1  | 47.7    | 52.3    | 56.2    | 62.6    | 78.8    | 92.6                          | 103.0   | 13.3    | 30.0   | 33.6   | 44.7    |        |
| 冷凝器水压降 Condenser Water Pressure drop(kPa)  | 50  | 56      | 58      | 59      | 61      | 63      | 72                            | 76      | 38      | 41     | 42     | 42      |        |
| 蒸发器 Evaporator                             | 壳管式 Shell and Tube Type   |         |         |         |         |         |                               |         |         |        |        |         |        |
| 水侧最高承压 Water Side Max Pressure (MPa)       | 1   |         |         |         |         |         |                               |         |         |        |        |         |        |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch) | 5"  | 5"      | 5"      | 5"      | 5"      | 8"      | 8"                            | 8"      | 3"      | 5"     | 5"     | 5"      |        |
| 55%乙二醇水溶液流量 55% Glycol Flow Volume (m³/h)  | 26.3  | 30.7    | 33.6    | 36.2    | 40.4    | 50.6    | 59.6                          | 66.5    | 8.4     | 19.2   | 21.4   | 28.7    |        |
| 蒸发器水压降 Evaporator Water Pressure drop(kPa) | 98  | 49      | 71      | 85      | 88      | 91      | 94                            | 97      | 39      | 52     | 67     | 55      |        |
| 运转噪音 Running Noise dB(A)                   | 75.0  | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0                          | 75.0    | 75.0    | 75.0   | 75.0   | 75.0    |        |
| 整机重量 Total weight (Kg)                     | 3160  | 3350    | 3590    | 3870    | 4050    | 4380    | 4640                          | 5020    | 1820    | 2760   | 3100   | 3760    |        |
| 运行重量 Running Weight (Kg)                   | 3580  | 3770    | 4120    | 4370    | 4620    | 4960    | 5240                          | 5610    | 2250    | 3560   | 4010   | 4860    |        |

热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 115                     | 134            | 148            | 158            | 177            | 218            | 256            | 292            | 36             | 84             | 92     | 124    |      |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|--------|------|
| 热回收量<br>Heat Reclaimed Volume                       | X1000 Kcal/h            | 30.7           | 35.9           | 39.2           | 42.3           | 47.2           | 59.1           | 69.6           | 77.6           | 9.8            | 22.4   | 25.0   | 33.5 |
|   | KW                      | 36             | 42             | 46             | 49             | 55             | 69             | 81             | 90             | 11             | 26     | 29     | 39   |
|   | USRT                    | 10.2           | 11.9           | 13.0           | 14.0           | 15.6           | 19.5           | 23.0           | 25.7           | 3.2            | 7.4    | 8.3    | 11.1 |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type |                |                |                |                |                |                |                |                |                |        |        |      |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1                       |                |                |                |                |                |                |                |                |                |        |        |      |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 2-1/2"                  | 3"             | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 2"             | 2-1/2"         | 2-1/2" | 2-1/2" |      |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 6.1                     | 7.2            | 7.8            | 8.5            | 9.4            | 11.8           | 13.9           | 15.5           | 2.0            | 4.5            | 5.0    | 6.7    |      |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 26                      | 26             | 27             | 30             | 32             | 34             | 35             | 35             | 23             | 26             | 26     | 28     |      |
| 整机重量 Total weight (Kg)                              | 3500                    | 3730           | 3970           | 4250           | 4430           | 4760           | 5020           | 5400           | 1950           | 3010           | 3400   | 4110   |      |
| 运行重量 Running Weight (Kg)                            | 3920                    | 4150           | 4500           | 4750           | 5060           | 5340           | 5620           | 5990           | 2380           | 3810           | 4320   | 5230   |      |
| 机组尺寸 Dimension L*W*H                                | 3600*1700*1850          | 3800*1750*1850 | 3600*1700*1700 | 3800*1850*1700 | 4000*1850*1600 | 4800*1800*2000 | 2050*1300*1850 | 3200*1350*1750 | 3300*1400*1950 | 3400*1450*2050 |        |        |      |

注:

- 名义制冷量基准: 蒸发器进出口溶液温度 -35°C, 冷凝器进水温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -35°C ~ -25°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet -35°C, cooling water in/outlet 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -35°C ~ -25°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.





## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)

## (热回收)水冷螺杆式低温冷水机组

### Low Temp. Screw-Type Water Chiller (Heat Recovery)



出水温度: -35°C Water outlet temperature -35°C

制冷剂 Refrigerant R404A

| 型号 Model HLWD~                              | 194DJY 214DJY 228DJY 240DJY 277DJY 305DJY 327DJY 365DJY 458DJY 540DJY 600DJY  |        |         |         |         |         |         |         |         |         |         |         |
|---|---|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | 194DJY  | 214DJY | 228DJY  | 240DJY  | 277DJY  | 305DJY  | 327DJY  | 365DJY  | 458DJY  | 540DJY  | 600DJY  |         |
| 名义制冷量<br>Rated Cooling Capacity             | X1000 Kcal/h  | 166.8  | 184.0   | 196.0   | 205.5   | 238.2   | 262.3   | 281.2   | 313.8   | 393.8   | 463.5   | 517.6   |
|   | KW  | 194    | 214     | 228     | 239     | 277     | 305     | 327     | 365     | 458     | 539     | 602     |
|   | USRT  | 55.2   | 60.8    | 64.8    | 68.0    | 78.8    | 86.7    | 93.0    | 103.8   | 130.2   | 153.3   | 171.2   |
| 输入功率 Input Power                            | KW  | 193.6  | 214.8   | 228.4   | 239.8   | 277.2   | 304.4   | 325.4   | 362.0   | 458.0   | 537.4   | 596.4   |
| 压缩机输入功率及行量 Comp.Input Power/Qty (kw)        |   | 96.8*2 | 107.4*2 | 114.2*2 | 119.9*2 | 138.6*2 | 152.2*2 | 162.7*2 | 181.0*2 | 229.0*2 | 266.7*2 | 298.2*2 |
| 机前运行电流 Comp.Current (A)                     |   | 325.4  | 361.2   | 383.8   | 403.2   | 466.0   | 501.8   | 547.0   | 608.8   | 770.0   | 903.6   | 1002.6  |
| 电源 Power Supply                             | 3 φ-380V-50HZ   |        |         |         |         |         |         |         |         |         |         |         |
| 保护装置 Protection Device                      | 逆相保护、缺相保护、过流保护、排气温度保护、高低压保护、低温保护、水流保护<br>Phase reversion protection, Phase lack protection, Overload current protection,<br>Discharge air temperature protection, Low&High pressure protection, Low temp protection, Water flow protection. |        |         |         |         |         |         |         |         |         |         |         |
| 制冷回路 Number of Refrigeration Circuit        | 2   |        |         |         |         |         |         |         |         |         |         |         |
| 能量控制 Capacity Control (%)                   | 0, 25, 37, 50, 62.5, 75, 87.5, 100  |        |         |         |         |         |         |         |         |         |         |         |
| 制冷剂充注量 Refrigerant Charge (kg)              | 188   | 204    | 220     | 230     | 268     | 296     | 316     | 354     | 436     | 512     | 584     |         |
| 冷凝器 Condenser                               | 壳管式 Shell and Tube Type   |        |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |         |         |         |         |         |         |         |         |         |         |
| 冷凝器进出口管径 Dia. of Pipe to Condenser (inch)   | 4"×2  | 5"×2   | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 5"×2    | 6"×2    | 6"×2    | 8"×2    | 8"×2    |         |
| 冷却水流量 Cooling Water Flow (m³/h)             | 66.7  | 73.7   | 78.5    | 82.3    | 95.3    | 104.8   | 112.2   | 125.0   | 157.5   | 185.1   | 206.1   |         |
| 冷凝器水压降 Condenser Water Pressure drop (kPa)  | 43  | 44     | 47      | 50      | 56      | 58      | 63      | 69      | 72      | 75      | 80      |         |
| 蒸发器 Evaporator                              | 壳管式 Shell and Tube Type   |        |         |         |         |         |         |         |         |         |         |         |
| 水侧最高承压 Water Side Max Pressure (MPa)        | 1   |        |         |         |         |         |         |         |         |         |         |         |
| 蒸发器进出口管径 Dia. of Pipe to Evaporator (inch)  | 6"  | 6"     | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 8"      | 10"     | 10"     |         |
| 55%乙二醇水溶液流量 55% Glycol Flow Volume (m³/h)   | 42.8  | 47.2   | 50.3    | 52.8    | 61.2    | 67.3    | 72.2    | 80.6    | 101.1   | 119.0   | 132.9   |         |
| 蒸发器水压降 Evaporator Water Pressure drop (kPa) | 59  | 65     | 64      | 69      | 75      | 97      | 93      | 90      | 87      | 96      | 104     |         |
| 运转噪音 Running Noise dB(A)                    | 75.0  | 75.0   | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    | 75.0    |         |
| 整机重量 Total weight (Kg)                      | 4650  | 5030   | 5440    | 6020    | 6510    | 6970    | 7200    | 7450    | 9120    | 9820    | 10450   |         |
| 运行重量 Running Weight (Kg)                    | 5870  | 6350   | 6790    | 7060    | 7290    | 7550    | 7880    | 8230    | 10280   | 11150   | 11720   |         |

#### 热回收技术参数 Heat Recovery

| 制冷剂充注量 Refrigerant charge(kg)                       | 188 204 220 230 268 296 316 354 436 512 584 |                |                |                |                |                |                |                |                |                |       |       |       |
|---|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|-------|
|   | 热回收量<br>Heat Reclaimed Volume               | X1000 Kcal/h   | 50.0           | 55.2           | 58.8           | 61.7           | 71.5           | 78.7           | 84.4           | 94.2           | 118.1 | 139.0 | 155.3 |
|   |   | KW             | 58             | 64             | 68             | 72             | 83             | 92             | 98             | 110            | 137   | 162   | 181   |
| USRT  |   | 16.5           | 18.3           | 19.4           | 20.4           | 23.6           | 26.0           | 27.9           | 31.1           | 39.1           | 46.0  | 51.4  |       |
| 热回收器 Heat Recoverer                                 | 壳管式 Shell and Tube Type                     |                |                |                |                |                |                |                |                |                |       |       |       |
| 水侧最高承压 Water Side Max Pressure (MPa)                | 1   |                |                |                |                |                |                |                |                |                |       |       |       |
| 热回收器进出口管径 Dia. of pipe to Heat Recoverer(inch)      | 3"  | 3"             | 3"             | 3"             | 4"             | 4"             | 4"             | 4"             | 5"             | 5"             | 5"    |       |       |
| 卫生热水流量 Reclaimed Water Flow(m³/h)                   | 10.0  | 11.0           | 11.8           | 12.3           | 14.3           | 15.7           | 16.9           | 18.8           | 23.6           | 27.8           | 31.1  |       |       |
| 热回收器水压降 Heat recovery Unit Water Pressure drop(kPa) | 34  | 35             | 38             | 38             | 39             | 42             | 43             | 43             | 43             | 43             | 43    |       |       |
| 整机重量 Total weight (Kg)                              | 5050  | 5910           | 6090           | 6670           | 7330           | 7790           | 8020           | 8270           | 9940           | 10640          | 11270 |       |       |
| 运行重量 Running Weight (Kg)                            | 6270  | 6930           | 7440           | 7720           | 8110           | 8370           | 8700           | 9050           | 11100          | 11970          | 12540 |       |       |
| 机组尺寸 Dimension L×W×H                                | 4100×2050×2250                              | 4100×2050×2300 | 4500×2050×2450 | 4500×2050×2500 | 4600×2100×2550 | 4600×2100×2600 | 4600×2100×2650 | 4700×2250×2600 | 4700×2250×2650 | 5200×2250×2800 |       |       |       |

#### 注:

- 名义制冷量基准: 蒸发器进出口溶液温度 -35°C, 冷凝器进口温度 30°C/35°C; 污垢系数: 0.088 m²·°C/KW;
- 冷冻水溶液温度范围: -35°C ~ -25°C;
- 冷却水温度范围: 15°C ~ 40°C;
- 规格参数及外形尺寸因产品改良会有所变动, 恕不另行通知。

#### Note:

- Rated cooling capacity based: Chilled Liquid water in/outlet: -35°C, cooling water in/outlet: 30°C/35°C; Fouling factor: 0.088 m²·°C/KW;
- Chilled Liquid range: -35°C ~ -25°C;
- Cooling water range: 15°C ~ 40°C;
- Changes of Specification for Improvement May be Made Without Notice.

机组出厂前已经过严格的调试检验, 用户只需将机组在专用机房内正确安装好, 不要安装在露天场所, 接冷却水、冷冻水循环管路系统及空调末端设备, 按要求接通电源便可使用。

- 机组应安装在不低于20cm的水平混凝土基础上, 装上减震装置用地脚螺栓紧固。机组周围要留有一定空间, 以方便操作、管理与维护。
- 合理设计、安装水系统, 以充分发挥机组性能。
  - 1) 出入水口要准确接, 不能接错。
  - 2) 出入水管口侧装设防震软接头、闸阀、压力表、温度计等, 出水管侧安装水流开关。
  - 3) 水管与设备的连接要用防震软接头, 以减少震动传递。
  - 4) 机组配置合适的冷却塔、冷却水泵及冻水泵, 水泵的入口侧装设过滤器等辅助设备。
  - 5) 尽量缩短水系统管路, 避免或减少不必要的管路变向(特别是垂直方向的变向), 以减少压力损失。
  - 6) 在冻水供水主管道间设置压差旁通阀; 在冻水系统最高处安装膨胀水箱, 膨胀水管接在冻水泵入口侧的回水主管上; 在冻水系统最高处安装手动或自动放气阀; 水系统最低处设置放水阀。
  - 7) 所有冻水供水管道都要隔热处理, 隔热前先进行气密性检验。
- 机组采用专门的配电设备, 不要与其它用电设备共用, 机组的电源电压应在额定电压的 -5 ~ 5% 范围内, 三相电压不平衡应少于 2%, 相间电流不平衡应少于 3%, 不正当供电会对机组造成损害。
- 机组的保护控制在电路出厂前已安装调试完毕, 安装时不要擅自改动。
- 系统安装完毕后必须进行以下工作才能开机调试。
  - 1) 检查水系统、空调末端系统及电气系统是否已安装妥当。
  - 2) 关闭末端设备的进出水阀门, 向水管路系统注清水清洗管路, 并排出管路系统内的空气。
  - 3) 检查冷却水及冷冻水系统运行是否正常。
  - 4) 开机前给机组通电24小时, 使机组润滑油加热。
- 冷却系统的用水应进行水质处理, 因碱性高的水质会加剧腐蚀铜管, 降低换热器的使用寿命, 使用水的PH值在 7.0~8.5 范围。
- 须确认压缩机吸气截止阀及冷凝器出液阀门处于开启位置才能开机, 系统开启顺序: 开冻水泵-开冷却塔-开冷却水泵-开机组; 系统关闭顺序: 关机组-关冷却水泵-关冷却塔-关冻水泵。
- 机组设有多种自动保护装置, 各项保护装置在出厂前已设置好, 用户不要随意改动。
- 双回路机组为均衡各压缩机运转时间设有停机次序转换开关, 此开关不要经常拨动, 半年或一年转换一次即可。
- 非紧急情况不要通过切断主电源来开启或关闭机组。
- 当机组发生故障报警停机时, 先按下机组的停止按钮(报警灯熄灭), 再检查故障原因, 在故障未排除前不得强行开机运行。
- 如需短期停机(时间少于7天), 只需按下机组的停止按钮即可, 不用关闭主电源; 若机组冬季长期停止使用, 先按下机组停止按钮, 再关闭主电源, 并放尽系统内的水。
- 要经常检查机组的运行情况, 包括冷却水的水质、水温、水压、冷媒、润滑油及水泵、冷却塔等运行是否正常, 发现异常要及时处理。要经常测定乙二醇水溶液的浓度比, 以防结冰。
- 要保持机房干燥、清洁、通风良好。
- 本公司对所有“华利”机组提供十二个月的免费保修服务, 并负责永久维修, 所有国内用户均可享受本公司快捷、及时的售后服务。

**警告: 本系列冷水机属高压、专业性较强的机械设备, 应由专业技术人员进行正确的操作和维护, 非专业技术人员请勿随意进行操作及使用。**