

▶ Modular Air-cooled Screw Chiller

R22



265kW
76RT



386kW
110RT



495kW
141RT

▶ Modular air-cooled screw chiller is a kind of refrigerant equipment which supplies chilled water in summer and hot water in winter. The unit can combine with packaged AHU and hydronic AHU and other AHU terminals into large-scale central air conditioning system. It is widely used in new or reconstructed civil or industrial buildings, or used to supply the required chilled/hot water used in manufacturing process.



- ◇ Modular operating, up to 8 units (no matter what capacity) can be integrated, to achieve a maximum capacity of 3960kW output system
- ◇ Flexible main module patent, any unit can be as main module just by connected with wired controller
- ◇ High efficient heat operation even in low temperature thanks to real time intelligent defrost mode, COP is improved with 10% upon that at traditional timed defrost mode
- ◇ Advanced error self diagnosis
- ◇ Unit optimized design with 0-25-50-75-100% multi-step energy adjustment
- ◇ Cool operating range up to 48°CDB and heating down to -15°C ambient
- ◇ Completed safeties
- ◇ Screw compressor
- ◇ Thermal expansion valves
- ◇ Sight glasses, dryer filter, high and low pressure sensors
- ◇ Water flow switch kit
- ◇ Wired LCD controller
- ◇ Long distance monitoring(optional)



Modular structure



Intelligent defrosting



Diagnosis displaying



Wired controller

| Item | Water Side | | Air Side | |
|---------|-----------------------|------------------------------|--------------------|--------------------|
| | Water Flow[m³/(h.kw)] | Outlet Water Temperature(°C) | DB Temperature(°C) | WB Temperature(°C) |
| Cooling | 0.172 | 7 | 35 | — |
| Heating | 0.172 | 45 | 7 | 6 |

| Item | Operating Range | | |
|---------|------------------------------|---|--------------------|
| | Water Side | | Air Side |
| | Outlet Water Temperature(°C) | Temperature Difference between Inlet&Outlet(°C) | DB Temperature(°C) |
| Cooling | 5~15 | 2.5~8 | 18~48 |
| Heating | 30~50 | 2.5~8 | -15~24 |



| Model | Cooling only | | LSBLGF270M-M | LSBLGF385M-M | LSBLGF500M-M |
|---------------------------|-------------------------|-------------------|---------------------|---------------------|----------------------|
| | Heat pump | | LSBLGRF270M-M | LSBLGRF385M-M | LSBLGRF500M-M |
| Cooling capacity | | kW | 265 | 386 | 495 |
| | | RT | 76 | 110 | 141 |
| Heating capacity* | | kW | 290 | 425 | 535 |
| | | RT | 83 | 121 | 153 |
| Capacity control | | % | 25-50-75-100 | | |
| EER | | W/W | 2.82 | 2.84 | 3.05 |
| COP* | | W/W | 3.20 | 2.90 | 3.30 |
| Power supply | | V-Ph-Hz | 380V-3Ph-50Hz | | |
| Power input | Cooling | kW | 94 | 136 | 162 |
| | Heating* | kW | 91 | 148 | 162 |
| Water side heat exchanger | Type | | Shell and Tube | | |
| | Water flow volume | m ³ /h | 45.6 | 66.4 | 85.1 |
| | | GPM | 201 | 292 | 374 |
| | Pressure drop | kPa | ≤50 | | |
| | | ft.WG | ≤16 | | |
| Connection pipe | mm | DN100 | DN100 | DN125 | |
| Air side heat exchanger | Heat exchanger type | | Finned Coil | | |
| | Fan type×Number of fans | | Axial Fan×4 | Axial Fan×6 | Axial Fan×8 |
| | Total fan air flow | m ³ /h | 10×10 ⁴ | 15×10 ⁴ | 20×10 ⁴ |
| | | CFM | 5.9×10 ⁴ | 8.8×10 ⁴ | 11.8×10 ⁴ |
| Motor input power | kW | 4×2.0 | 6×2.0 | 8×2.0 | |
| Sound pressure level | | dB(A) | 78 | 79 | 80 |
| Dimension | Outline(W×D×H) | mm | 3150×2100×2300 | 4330×2100×2300 | 5250×2100×2300 |
| | Package(W×D×H) | mm | 3230×2180×2300 | 4410×2180×2300 | 5330×2180×2300 |
| Net weight | Cooling only | kg | 3160 | 4540 | 5160 |
| | Heat pump | kg | 3250 | 4640 | 5280 |
| Loading quantity | 20'GP/40'GP/40'HQ | | 0/0/3 | 0/0/2 | 0/0/2 |

Notice:

- *for heat pump unit only
- The operating weight of the unit is equal to 110% of net weight of the unit.

