

Modular Scroll Air to Water Heat Pump – LSQ Series – Technical Specifications

| Model | Heat Pump | | LSQWRF65M/NaD-M | LSQWRF80M/NaD-M | LSQWRF130M/NaD-M | LSQWRF160M/NaD-M |
|-------------------------------|-----------------|--------|---|--------------------|---------------------|--------------------|
| Capacity | Cooling | kW/ TR | 60,0 / 17,0 | 71,0 / 20,2 | 120 / 34,1 | 145 / 41,2 |
| | Heating | kW/ TR | 75,0 / 18,5 | 79,5 / 22,6 | 130 / 37,0 | 165 / 46,9 |
| Capacity Steps | % | | 0-50-100% | | 0-25-50-75-100% | |
| EER – ESEER | W/W | | 2,84 – 3,31 | 2,76 – 3,22 | 2,84 – 3,30 | 2,79 – 3,2 |
| COP | W/W | | 3,09 | 2,94 | 2,93 | 3 |
| Power Supply | | | 380 ~ 415V – 3N – 50Hz | | | |
| Power Input | Cooling | kW | 21,1 | 25,7 | 42,3 | 52 |
| | Heating | kW | 21 | 27 | 44,4 | 55 |
| Compressor | Type / Quantity | | Hermetic Scroll / 2 | | Hermetic Scroll / 4 | |
| Refrigerant | Type | | R – 410A | | | |
| Evaporator | Type | | High efficient Shell and Tube heat exchanger | | | |
| | Water Flow | L/s | 2,9 | 3,4 | 5,7 | 6,9 |
| | Pressure drop | kPa | 15 | 20 | 30 | 35 |
| Chilled Water Outlet/Inlet | mm | | DN65 | DN65 | DN80 | DN80 |
| Condenser | Type | | High efficient Fin tube type heat exchanger | | | |
| Fan | Type / Quantity | | Axial / 2 | | Axial / 4 | |
| | Power Input | kW | 0,7 x 3 | 0,7 x 3 | 0,7 x 6 | 0,7 x 6 |
| Sound Pressure Level | dB(A) | | 70 | 71 | 72 | 74 |
| Dimensions (W x D x H) | mm | | 2040 x 1000 x 2230 | 2040 x 1000 x 2230 | 2226 x 1650 x 2230 | 2226 x 1650 x 2230 |
| Net weight / Operation Weight | Heat Pump | kg | 710 / 781 | 760 / 836 | 1256 / 1382 | 1440 / 1584 |
| | | | Cooling: OutTemp. 5~45 DB °C, water 5~15, Heating: OutTemp. -15~24 DB °C, water 40~50 | | | |
| Operation Range | °C | | | | | |

Units capacity and power input are based in the following conditions:

Cooling: Water 7°C, ΔT= 5°C, OutTemp. 35°C DB/24°C WB

Heating: Water 45°C, ΔT= 5°C, OutTemp. 7°C DB/6°C WB