

Condenserless multi-scroll chiller, standard efficiency, standard sound

EWLQ-G-SS



Scroll compressor

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › For chilled water production, to be combined with a remote condensing unit
- › Stainless steel plate heat exchanger
- › Compact design to allow easy indoor installation or retrofit operations
- › Conceived for stacked installation of two single circuit units to reduce the footprint
- › High efficiency and reliable scroll compressor

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| Cooling only | | | | EWLQ-G-SS | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------------|--------|----------|----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|----|--|----|--|----|--|
| | | | | 090 | 100 | 120 | 130 | 150 | 170 | 190 | 210 | 240 | 300 | 360 | | | | | | | | |
| Cooling capacity | Nom. | | | kW | 86.5 (1) | 98.4 (1) | 110 (1) | 125 (1) | 139 (1) | 160 (1) | 181 (1) | 206 (1) | 231 (1) | 290 (1) | 346 (1) | | | | | | | |
| Power input | Cooling | Nom. | | kW | 22.4 (1) | 25.8 (1) | 29.2 (1) | 33.0 (1) | 36.8 (1) | 42.0 (1) | 47.0 (1) | 54.2 (1) | 59.9 (1) | 75.6 (1) | 91.8 (1) | | | | | | | |
| Capacity control | Method | | | Step | | | | | | | | | | | | | | | | | | |
| | Minimum capacity | | | % | 50.0 | 43.0 | 50.0 | 44.0 | 50.0 | 45.0 | 50.0 | 43.0 | 50.0 | 40.0 | 50.0 | | | | | | | |
| EER | | | | | 3.86 (1) | 3.81 (1) | 3.78 (1) | 3.79 (1) | | 3.80 (1) | 3.86 (1) | 3.80 (1) | 3.85 (1) | 3.84 (1) | 3.77 (1) | | | | | | | |
| Dimensions | Unit | Height | | mm | 1,066 | | | | | | | | | | | | | | | | | |
| | | Width | | mm | 928 | | | | | | | | | | | | | | | | | |
| | | Depth | | mm | 2,743 | | | | | | | | | | | | | | | | | |
| Weight | Unit | | kg | 494 | 578 | 686 | 714 | 742 | 773 | 807 | 838 | 852 | 967 | 1,046 | | | | | | | | |
| | Operation weight | | | kg | 525 | 615 | 729 | 760 | 791 | 826 | 863 | 901 | 916 | 1,044 | 1,134 | | | | | | | |
| Water heat exchanger - evaporator | Water pressure drop | | Cooling | Nom. | kPa | | 44 | | 35 | | 29 | | 31 | | 33 | | 30 | | 38 | | 41 | |
| | Type | | | Plate heat exchanger | | | | | | | | | | | | | | | | | | |
| | Water volume | | | l | 6 | 8 | | 10 | 12 | 13 | 15 | 17 | | 27 | 34 | | | | | | | |
| Compressor | Water flow rate | | Nom. | l/s | 4.2 | 4.7 | 5.3 | 6.0 | 6.7 | 7.7 | 8.7 | 9.8 | 11.1 | 13.9 | 16.6 | | | | | | | |
| | Type | | | Scroll compressor | | | | | | | | | | | | | | | | | | |
| Sound power level | Cooling | | Nom. | dB(A) | 80 | 83 | 85 | 87 | 88 | | | 90 | 92 | 93 | | | | | | | | |
| | Quantity | | | 2 | | | | | | | | | | | | | | | | | | |
| Sound pressure level | Cooling | | Nom. | dB(A) | 64 | 67 | 69 | 70 | 72 | | | 74 | 76 | | 77 | | | | | | | |
| Operation range | Evaporator | | Cooling | Min.~Max. | °CDB | | | | -10~15 | | | | | | | | | | | | | |
| | Condenser | | Cooling | Min.~Max. | °CDB | | | | 30~60 | | | | | | | | | | | | | |
| Refrigerant | Type / GWP | | | R-410A / 2,087.5 | | | | | | | | | | | | | | | | | | |
| | Circuits | | Quantity | 1 | | | | | | | | | | | | | | | | | | |
| Piping connections | Evaporator water inlet/outlet (OD) | | | 1" 1/2 | | | | 2" 1/2 | | | | 3" | | | | | | | | | | |
| Unit | Starting current | | Max | A | 204 | 255 | 261 | 308 | 316 | 354 | 368 | 466 | 481.0 | 640 | 677 | | | | | | | |
| | Running current | | Cooling | Nom. | A | 39 | 42 | 45 | 51 | 57 | 64 | 70 | 81 | 88 | 111 | 135 | | | | | | |
| | Max | | | A | 59 | 66 | 72 | 80 | 88 | 102 | 116 | 131 | 145 | 183 | 221 | | | | | | | |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 3~/50/400 | | | | | | | | | | | | | | | | | |

(1) Cooling: entering evaporator water temp. 12.0°C; leaving evaporator water temp. 7.0°C; condensing temperature 45.0°C, unit at full load operation.
 (2) Its functioning relies on fluorinated greenhouse gases

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