



Air cooled
multi-scroll
heat pump,
high efficiency,
standard sound

EWYQ-G-XS



Scroll compressor

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Compact design to allow easy indoor installation or retrofit operations
- › Partial and total heat recovery option available
- › Stainless steel plate heat exchanger

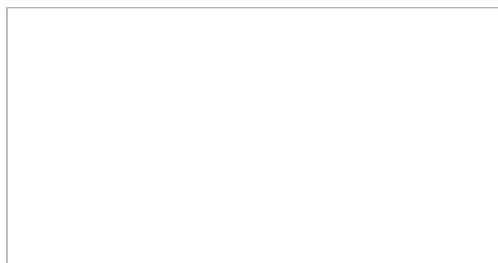
EWYQ-G-XS



| Heating & Cooling | | | | EWYQ-G-XS | 075 | 085 | 100 | 110 | 120 | 140 | 160 | |
|----------------------|------------------------------------|---|-----------|-------------|----------|----------|----------|----------|----------|----------|-------|-------|
| Cooling capacity | Nom. | | kW | 77.8 (1) | 88.1 (1) | 101 (1) | 117 (1) | 127 (1) | 147 (1) | 165 (1) | | |
| Heating capacity | Nom. | | kW | 82.2 (2) | 91.2 (2) | 110 (2) | 127 (2) | 138 (2) | 156 (2) | 170 (2) | | |
| Power input | Cooling | Nom. | kW | 27.0 (1) | 31.5 (1) | 36.0 (1) | 39.5 (1) | 44.7 (1) | 50.2 (1) | 57.8 (1) | | |
| | Heating | Nom. | kW | 26 (2) | 29 (2) | 34 (2) | 39 (2) | 43 (2) | 50 (2) | 54 (2) | | |
| Capacity control | Method | Step | | | | | | | | | | |
| | Minimum capacity | | % | 50 | 44 | 50 | 44 | 50 | 43 | 50 | | |
| EER | | | | 2.88 (1) | 2.80 (1) | 2.81 (1) | 2.97 (1) | 2.84 (1) | 2.92 (1) | 2.85 (1) | | |
| ESEER | | | | 3.90 | 3.94 | 3.97 | 4.03 | 3.92 | 3.96 | | | |
| COP | | | | 3.14 (2) | 3.12 (2) | 3.24 (2) | 3.25 (2) | 3.20 (2) | 3.11 (2) | 3.13 (2) | | |
| SCOP | | | | 3.25 | 3.20 | 3.46 | 3.42 | 3.39 | 3.33 | 3.35 | | |
| IPLV | | | | 4.40 | 4.47 | 4.40 | 4.49 | 4.40 | 4.50 | | | |
| Dimensions | Unit | Height | mm | 1,800 | | | | | | | | |
| | | Width | mm | 1,195 | | | | | | | | |
| | | Depth | mm | 2,826 | | 3,426 | | | 4,026 | | | |
| Weight | Unit | | kg | 850 | 912 | 1,077 | 1,183 | 1,213 | 1,333 | 1,394 | | |
| | | Operation weight | kg | 858 | 921 | 1,088 | 1,194 | 1,224 | 1,344 | 1,411 | | |
| Water heat exchanger | Type | Braze plate | | | | | | | | | | |
| | | Water flow rate | Cooling | Nom. | l/s | 3.7 | 4.2 | 4.8 | 5.6 | 6.1 | 7.0 | 7.9 |
| | | | Heating | Nom. | l/s | 4.0 | 4.4 | 5.3 | 6.1 | 6.7 | 7.5 | 8.2 |
| | | Water pressure drop | Cooling | Nom. | kPa | 8.40 | 8.30 | 8.70 | 11.6 | 13.7 | 18.2 | 19.9 |
| | | | Heating | Nom. | kPa | 9.50 | 9.10 | 11.20 | 14.40 | 17.20 | 21.70 | 22.50 |
| Water volume | | l | 8.10 | 9.40 | 10.8 | | | 16.7 | | | | |
| Air heat exchanger | Type | High efficiency fin and tube type with integral subcooler | | | | | | | | | | |
| Compressor | Type | Scroll compressor | | | | | | | | | | |
| | Quantity | 2 | | | | | | | | | | |
| Fan | Type | Direct propeller | | | | | | | | | | |
| | Quantity | 6 | | | 8 | | | 10 | | | | |
| | Air flow rate | Nom. | l/s | 10,042 | | 9,861 | | 13,148 | | 16,435 | | |
| | Speed | | rpm | 1,360 | | | | | | | | |
| Sound power level | Cooling | Nom. | dB(A) | 84 | 85 | 87 | 89 | | | | | |
| Sound pressure level | Cooling | Nom. | dB(A) | 66 | 68 | 70 | 71 | | | | | |
| Operation range | Air side | Cooling | Min.~Max. | °CDB -10~45 | | | | | | | | |
| | | Heating | Min.~Max. | °CDB -10~45 | | | | | | | | |
| | Water side | Cooling | Min.~Max. | °CDB -10~15 | | | | | | | | |
| | | Heating | Min.~Max. | °CDB -10~15 | | | | | | | | |
| Refrigerant | Type/GWP | R-410A/2,087.5 | | | | | | | | | | |
| | Circuits | Quantity | 1 | | | | | | | | | |
| Refrigerant charge | Per circuit | | kg | 15.0 | | 18.0 | | 23.0 | | 30.0 | | |
| | | TCO ₂ eq | | 31.3 | | 37.6 | | 48.0 | | 62.6 | | |
| Piping connections | Evaporator water inlet/outlet (OD) | 2" 1/2 | | | | | | | | | | |
| Unit | Starting current | Max | A | 210 | 261 | 267 | 316 | 323 | 363 | 377 | | |
| | | Running current | Cooling | Nom. | A | 52 | 56 | 60 | 69 | 76 | 88 | 95 |
| | | | Max | A | 66 | 72 | 78 | 87 | 95 | 111 | 125 | |
| Power supply | Phase/Frequency/Voltage | Hz/V | 3~/50/400 | | | | | | | | | |

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation. (2) Heating capacity, unit power input and COP are based on the following conditions: ambient 7°C; condenser 40.0/45.0°C, unit at full load operation | Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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