



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

EWYQ-F-XS/XL

**R-410A**



Scroll compressor

- › Class A efficiency in heating mode
- › Extended operation range: ambient temperatures from -10°C up to +46°C in cooling mode and down to -17°C in heating mode
- › 2 truly independent refrigerant circuits
- › Reduced footprint thanks to the V-shaped frame
- › Reliable and efficient scroll compressors with high EER values
- › Top serviceability level thanks to reduced weight, compact footprint and optimized components accessibility
- › Inverter fans management for enhanced part load efficiencies

# EWYQ-F-XS/XL



| Heating & Cooling         |                                       |          |           | EWYQ-F-XS/XL  |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
|---------------------------|---------------------------------------|----------|-----------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|--------|--|
|                           |                                       |          |           | 160   | 190      | 210      | 230      | 310      | 340      | 380      | 400      | 430      | 510      | 570      | 630      |         |        |  |
| Cooling capacity          | Nom.                                  |          |           | kW  | 164 (1)  | 184 (1)  | 205 (1)  | 231 (1)  | 304 (1)  | 335 (1)  | 376 (1)  | 401 (1)  | 427 (1)  | 502 (1)  | 565 (1)  | 624 (1) |        |  |
| Heating capacity          | Nom.                                  |          |           | kW  | 173      | 197      | 227      | 254      | 329      | 362      | 404      | 429      | 463      | 535      | 607      | 674     |        |  |
| Power input               | Cooling                               | Nom.     |           | kW  | 57.6 (1) | 63.3 (1) | 70.3 (1) | 79.3 (1) | 102 (1)  | 114 (1)  | 129 (1)  | 138 (1)  | 145 (1)  | 172 (1)  | 195 (1)  | 214 (1) |        |  |
|                           | Heating                               | Nom.     |           | kW  | 54.0     | 61.6     | 70.5     | 79.2     | 101      | 113      | 126      | 133      | 140      | 167      | 190      | 210     |        |  |
| Capacity control          | Method                                |          |           | Step  |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
|                           | Minimum capacity                      |          |           | %   | 25.0     |          |          |          |          |          |          |          |          | 17.0     |          |         |        |  |
| EER                       |                                       |          |           | 2.84 (1)  | 2.91 (1) | 2.92 (1) |          | 2.99 (1) | 2.93 (1) | 2.91 (1) | 2.90 (1) | 2.94 (1) | 2.92 (1) | 2.90 (1) | 2.91 (1) |         |        |  |
| ESEER                     |                                       |          |           | 3.73  | 3.89     | 3.81     | 3.71     | 4.07     | 4.19     | 3.99     | 3.96     | 4.14     | 4.20     | 3.98     | 4.06     |         |        |  |
| COP                       |                                       |          |           | 3.20  |          | 3.22     | 3.21     | 3.24     | 3.21     |          | 3.23     | 3.30     | 3.21     | 3.20     | 3.21     |         |        |  |
| SCOP                      |                                       |          |           | 2.78  | 2.85     | 2.81     | 2.80     | 2.87     | 2.89     |          | 2.84     | 2.90     | 2.83     | 2.82     | 2.84     |         |        |  |
| IPLV                      |                                       |          |           | 4.45  | 4.47     | 4.55     | 4.38     | 4.56     | 4.61     | 4.38     | 4.50     | 4.70     | 4.71     | 4.56     | 4.74     |         |        |  |
| Dimensions                | Unit                                  | Height   | mm        | 2,270   |          |          |          |          | 2,220    |          |          |          |          |          |          |         |        |  |
|                           |                                       | Width    | mm        | 1,200   |          |          |          |          | 2,258    |          |          |          |          |          |          |         |        |  |
|                           |                                       | Depth    | mm        | 4,370   |          | 5,270    |          | 4,125    |          | 5,025    |          | 5,925    |          | 6,825    |          |         |        |  |
| Weight (XS)               | Unit                                  |          |           | kg  | 1,430    | 1,850    | 2,300    | 2,350    | 2,900    | 2,910    | 2,920    | 3,730    | 3,750    | 4,250    | 4,280    | 4,670   |        |  |
|                           | Operation weight                      |          |           | kg  | 1,470    | 1,890    | 2,340    | 2,390    | 2,980    | 2,990    | 3,000    | 3,840    | 3,850    | 4,370    | 4,400    | 4,780   |        |  |
| Weight (XL)               | Unit                                  |          |           | kg  | 1,520    | 1,940    | 2,400    | 2,440    | 3,060    | 3,070    | 3,080    | 3,890    | 3,900    | 4,400    | 4,440    | 4,820   |        |  |
|                           | Operation weight                      |          |           | kg  | 1,570    | 1,980    | 2,440    | 2,480    | 3,130    | 3,150    | 3,160    | 3,990    | 4,010    | 4,520    | 4,550    | 4,940   |        |  |
| Water heat exchanger      | Type                                  |          |           | Plate heat exchanger                                      |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
|                           | Water volume                          |          |           | l   | 18       |          |          |          | 44       |          |          | 60       |          |          | 70       |         |        |  |
|                           | Water flow rate                       | Cooling  | Nom.      | l/s   | 7.8      | 8.8      | 9.8      | 11.1     | 14.6     | 16.0     | 18.0     | 19.2     | 20.4     | 24.0     | 27.1     | 29.9    |        |  |
|                           |                                       | Heating  | Nom.      | l/s   | 8.3      | 9.5      | 10.9     | 12.2     | 15.9     | 17.5     | 19.5     | 20.7     | 22.3     | 25.8     | 29.3     | 32.5    |        |  |
|                           | Water pressure drop                   | Cooling  | Nom.      | kPa   | 22       | 28       | 36       | 40       | 21       | 27       | 30       | 29       | 34       | 37       | 42       | 56      |        |  |
| Heating                   |                                       | Nom.     | kPa       | 25  | 32       | 43       | 50       | 25       | 31       | 37       | 33       | 40       | 43       | 50       | 66       |         |        |  |
| Air heat exchanger        | Type                                  |          |           | High efficiency fin and tube type with integral subcooler |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
| Compressor                | Type                                  |          |           | Scroll compressor   |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
|                           | Quantity                              |          |           | 4   |          |          |          |          |          |          |          |          | 6        |          |          |         |        |  |
| Fan                       | Type                                  |          |           | Direct propeller  |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
|                           | Quantity                              |          |           | 4   |          | 5        |          | 8        |          |          | 10       |          | 12       |          | 14       |         |        |  |
|                           | Air flow rate                         | Nom.     | l/s       | 22,577  | 21,593   | 26,992   |          | 43,187   |          |          | 55,213   |          | 53,983   |          | 64,780   |         | 75,577 |  |
|                           | Speed                                 |          |           | rpm   | 900      |          |          |          |          |          |          |          |          |          |          |         |        |  |
| Sound power level (XS)    | Cooling                               | Nom.     | dBA       | 92  | 94       | 95       |          | 97       |          | 98       |          | 99       |          |          | 100      |         |        |  |
| Sound power level (XL)    | Cooling                               | Nom.     | dBA       | 89  | 92       | 93       |          | 95       |          |          | 96       |          | 97       |          | 98       |         |        |  |
| Sound pressure level (XS) | Cooling                               | Nom.     | dBA       | 72  | 74       | 75       | 76       | 77       |          | 78       |          |          | 79       |          | 80       |         |        |  |
| Sound pressure level (XL) | Cooling                               | Nom.     | dBA       | 70  | 73       |          | 74       | 75       |          |          | 76       |          | 77       |          |          |         |        |  |
| Operation range           | Water side                            | Cooling  | Min.-Max. | °CDB  |          | -13~15   |          |          |          |          |          |          |          |          |          |         |        |  |
|                           |                                       | Heating  | Min.-Max. | °CDB  |          | 25~50    |          |          |          |          |          |          |          |          |          |         |        |  |
|                           | Air side                              | Cooling  | Min.-Max. | °CDB  |          | -10~46   |          |          |          |          |          |          |          |          |          |         |        |  |
|                           |                                       | Heating  | Min.-Max. | °CDB  |          | -17~20   |          |          |          |          |          |          |          |          |          |         |        |  |
| Refrigerant               | Type / GWP                            |          |           | R-410A / 2,087.5  |          |          |          |          |          |          |          |          |          |          |          |         |        |  |
|                           | Circuits                              | Quantity |           |   | 2        |          |          |          |          |          |          |          |          |          |          |         |        |  |
| Refrigerant charge        | Per circuit                           |          |           | kg  | 16.0     | 20.0     |          | 24.0     | 35.0     | 36.0     | 35.0     | 46.0     |          | 55.0     | 52.5     | 68.0    |        |  |
|                           | Per circuit                           |          |           | TCO <sub>Eq</sub>   | 33.4     | 41.8     |          | 50.1     | 73.1     | 75.2     | 73.1     | 96.0     |          | 114.8    | 109.6    | 142.0   |        |  |
| Piping connections        | Evaporator water inlet/outlet (OD)    |          |           | 2.5"  |          |          |          |          | 3"       |          |          |          |          |          |          |         |        |  |
| Unit                      | Maximum starting current              |          | A         | 282   | 536      | 353      | 560      | 600      | 516      | 637      | 659      | 666      | 648      | 787      | 827      |         |        |  |
|                           | Nominal running current (RLA) Cooling |          | A         | 115   | 140      | 128      | 162      | 193      | 205      | 235      | 251      | 257      | 307      | 353      | 384      |         |        |  |
|                           | Maximum running current               |          | A         | 138   | 165      | 164      | 196      | 246      | 264      | 295      | 316      | 330      | 396      | 442      | 491      |         |        |  |
| 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. 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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