



Air cooled  
multi-scroll  
chiller, high  
efficiency,  
reduced sound

EWAQ-E-XR

**R-410A**



Scroll compressor

- › Reliable and efficient scroll compressors with high EER values
- › A series of advantages thanks to the use of large-capacity scroll compressors: increased competitiveness, reduced weight, clearances around the unit
- › Reduced footprint thanks to the V-shaped frame
- › Large operation range: ambient temperatures up to 52°C and down to -18°C
- › The unit can be equipped with a hydraulic module optimizing installation time, space and cost

# EWAQ-E-XR



| Cooling only         |                                    |         |           | EWAQ-E-XR                                                 | 170       | 190    | 220    | 260    | 300    | 320    |
|----------------------|------------------------------------|---------|-----------|-----------------------------------------------------------|-----------|--------|--------|--------|--------|--------|
| Cooling capacity     | Nom.                               |         | kW        |                                                           | 172       | 190    | 219    | 254    | 302    | 310    |
| Power input          | Cooling                            | Nom.    | kW        |                                                           | 56.5      | 63.6   | 71.8   | 85.4   | 102    | 107    |
| Capacity control     | Method                             |         |           |                                                           | Step      |        |        |        |        |        |
|                      | Minimum capacity                   |         |           | %                                                         | 50.0      | 43.0   | 50.0   | 33.0   | 27.0   | 33.0   |
| EER                  |                                    |         |           |                                                           | 3.05      | 2.98   | 3.05   | 2.97   | 2.96   | 2.89   |
| ESEER                |                                    |         |           |                                                           | 4.45      | 4.57   | 4.33   | 4.65   | 4.62   | 4.50   |
| IPLV                 |                                    |         |           |                                                           | 5.09      | 4.95   | 4.90   | 5.04   | 5.07   | 5.20   |
| Dimensions           | Unit                               | Height  | mm        |                                                           | 2,271     |        |        |        |        |        |
|                      |                                    | Width   | mm        |                                                           | 1,224     |        |        |        |        |        |
|                      |                                    | Depth   | mm        |                                                           | 4,413     |        | 5,313  |        | 6,213  |        |
| Weight               | Unit                               |         |           | kg                                                        | 1,970     | 2,064  | 2,134  | 2,489  | 2,632  | 2,840  |
|                      | Operation weight                   |         |           |                                                           | kg        | 1,982  | 2,076  | 2,148  | 2,503  | 2,647  |
| Water heat exchanger | Type                               |         |           | Plate heat exchanger                                      |           |        |        |        |        |        |
|                      | Water flow rate                    | Cooling | Nom.      | l/s                                                       | 8.2       | 9.1    | 10.5   | 12.1   | 14.5   | 14.8   |
|                      | Water pressure drop                | Cooling | Nom.      | kPa                                                       | 26        | 39     | 33     | 44     | 43     | 52     |
|                      | Water volume                       |         |           | l                                                         | 12        |        | 14     |        |        |        |
| Air heat exchanger   | Type                               |         |           | High efficiency fin and tube type with integral subcooler |           |        |        |        |        |        |
| Compressor           | Type                               |         |           | Scroll compressor                                         |           |        |        |        |        |        |
|                      | Quantity                           |         |           |                                                           | 2         |        |        |        | 3      |        |
| Fan                  | Type                               |         |           | Direct propeller                                          |           |        |        |        |        |        |
|                      | Quantity                           |         |           |                                                           | 4         |        | 5      |        | 6      |        |
|                      | Air flow rate                      | Nom.    |           | l/s                                                       | 16,743    | 18,405 | 20,618 | 20,056 | 25,243 | 28,009 |
|                      | Speed                              |         |           | rpm                                                       | 705       | 784    | 705    |        | 784    |        |
| Sound power level    | Cooling                            | Nom.    |           | dBA                                                       | 85        | 86     | 87     | 86     | 88     | 89     |
| Sound pressure level | Cooling                            | Nom.    |           | dBA                                                       | 66        | 67     | 68     | 67     | 68     | 69     |
| Operation range      | Air side                           | Cooling | Min.-Max. | °CDB                                                      | -18~-52   |        |        |        |        |        |
|                      | Water side                         | Cooling | Min.-Max. | °CDB                                                      | -13~-18   |        |        |        |        |        |
| Refrigerant          | Type / GWP                         |         |           | R-410A / 2,087.5                                          |           |        |        |        |        |        |
|                      | Circuits                           |         |           | Quantity                                                  | 1         |        |        |        |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |         |           |                                                           | 3"        |        |        |        |        |        |
| Power supply         | Phase/Frequency/Voltage            |         |           | Hz/V                                                      | 3~/50/400 |        |        |        |        |        |
| Refrigerant charge   | Per circuit                        |         |           | kg                                                        | 28.0      | 31.0   | 27.0   | 35.0   | 43.0   | 53.0   |
|                      |                                    |         |           | TCO <sub>2</sub> Eq                                       | 58.5      | 64.7   | 56.4   | 73.1   | 89.8   | 110.6  |

(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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