



V-shape

EWAQ-F-XS/XL
EWAQ-F-XR



W-shape

EWAQ-F-XS/XL
EWAQ-F-XR



MicroTech III

- > 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
- > 1-2 truly independent refrigerant circuits
- > 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
- > Ideal solution for a broad range of comfort and process applications
- > MicroTech III controller with superior control logic and easy interface

Cooling only

High efficiency Standard/low sound

| EWAQ-F-XS/XL | | | | 170 | 200 | 220 | 250 | 310 | 320 | 350 | 360 | 400 | 430 | 450 | 520 | 610 | 680 | | | |
|---------------------------|------------------------------------|---|-----------|-------------------|--------|-------------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|-------|-------------------|-------|--------|----|----|----|
| Cooling capacity | Nom. | | kW | 170 | 194 | 220 | 244 | 316 | | 356 | | 403 | 428 | 457 | 528 | 607 | 672 | | | |
| Power input | Cooling | Nom. | kW | 54.8 | 62.2 | 70.6 | 78.3 | 102 | | 115 | | 130 | 137 | 146 | 170 | 198 | 219 | | | |
| Capacity control | Method | Step | | | | | | | | | | | | | | | | | | |
| | Minimum capacity | | % | 25 | 21 | 25 | 22 | 23 | | 25 | | 21 | 20 | 25 | 17 | 14 | 17 | | | |
| EER | | | | 3.11 | 3.13 | 3.12 | | 3.09 | | | 3.10 | 3.12 | | 3.10 | 3.07 | | | | | |
| ESEER | | | | 3.89 | 4.08 | 3.91 | 4.03 | 4.05 | 4.30 | 4.06 | 4.33 | 4.22 | 4.26 | 4.22 | 4.29 | 4.24 | 4.14 | | | |
| Dimensions | Unit | HeightxWidthxDepth | mm | 2,271x1,224x4,413 | | 2,271x1,224x5,313 | | 2,271x1,224x6,213 | 2,221x2,258x3,210 | 2,271x1,224x6,213 | 2,221x2,258x3,210 | 2,221x2,258x4,110 | | | 2,221x2,258x5,010 | | | | | |
| Weight (XS) | Unit | | kg | 1,688 | 1,958 | 2,210 | 2,339 | 2,500 | 2,600 | 2,632 | 2,732 | 2,744 | 2,845 | 2,861 | 3,569 | 3,667 | 4,054 | | | |
| | Operation weight | | kg | 1,700 | 1,973 | 2,225 | 2,353 | 2,514 | | 2,672 | 2,772 | 2,784 | 2,891 | 2,907 | 3,615 | 3,727 | 4,115 | | | |
| Weight (XL) | Unit | | kg | 1,909 | 2,193 | 2,457 | 2,592 | 2,761 | 2,861 | 2,900 | 3,000 | 3,017 | 3,124 | 3,141 | 3,923 | 4,026 | 4,434 | | | |
| | Operation weigh | | kg | 1,921 | 2,207 | 2,472 | 2,607 | 2,776 | 2,876 | 2,940 | 3,040 | 3,057 | 3,170 | 3,187 | 3,970 | 4,087 | 4,494 | | | |
| Water heat exchanger | Type | Plate heat exchanger | | | | | | | | | | | | | | | | | | |
| | Water volume | | l | 12 | | | | 14 | | | | 40 | | | | 46 | | | | 60 |
| | Nominal water flow | Cooling | l/s | 8.2 | 9.3 | 10.5 | 11.7 | 15.1 | | 17.0 | | 19.3 | 20.5 | 21.8 | 25.3 | 29.0 | 32.2 | | | |
| | Nominal water pressure drop | Cooling | Total | kPa | 25 | 27 | 34 | 42 | 22 | | 23 | | 31 | 29 | 30 | 41 | 44 | 55 | | |
| 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 | | | | 6 | | | | 8 | | | | 10 | 12 | |
| | Air flow rate | Nom. | l/s | 21,845 | 21,148 | 26,874 | 25,204 | 31,722 | | 30,245 | 30,245 | 42,296 | 40,326 | | 50,408 | | 60,489 | | | |
| | Speed | | rpm | 900 | | | | | | | | | | | | | | | | |
| Sound power level (XS) | Cooling | Nom. | dB(A) | 91 | 93 | 94 | 95 | 96 | | | | 97 | 98 | | 99 | 100 | | | | |
| Sound power level (XL) | Cooling | Nom. | dB(A) | 90 | 91 | 92 | | 93 | | | | 95 | | 96 | 97 | | | | | |
| Sound pressure level (XS) | Cooling | Nom. | dB(A) | 72 | 74 | 75 | 76 | 77 | 76 | 77 | 78 | | 79 | 78 | 79 | | | | | |
| Sound pressure level (XL) | Cooling | Nom. | dB(A) | 71 | 73 | | 74 | | | | 75 | | 76 | | | | | | | |
| Operation range | Water side | Cooling | Min.~Max. | °CDB -15~-18 | | | | | | | | | | | | | | | | |
| | Air side | Cooling | Min.~Max. | °CDB -18~-52 | | | | | | | | | | | | | | | | |
| Refrigerant | Type | R-410A | | | | | | | | | | | | | | | | | | |
| | Circuits | Quantity | 2 | | | | | | | | | | | | | | | | | |
| Refrigerant circuit | Charge | | kg | 14 | 18 | 21 | 24 | | | | 35 | | 40 | | 46 | | | | | |
| Piping connections | Evaporator water inlet/outlet (OD) | 3" | | | | | | | | | | | | | | | | | | |
| Power supply | Phase/Frequency/Voltage | | Hz/V | 3~/50/400 | | | | | | | | | | | | | | | | |



Cooling only

High efficiency Reduced sound

| EWAQ-F-XR | | | | 170 | 190 | 210 | 240 | 300 | 310 | 330 | 340 | 390 | 410 | 430 | 500 | 580 | 650 | | | | | | |
|----------------------|------------------------------------|--------------------|------|---|-----|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|-------------------|--------|--------|-------------------|-------|--------|--------|------|----|
| Cooling capacity | Nom. | | | kW | | | 165 | 188 | 211 | 236 | 304 | 340 | 385 | 407 | 433 | 502 | 579 | 645 | | | | | |
| | Power input | Cooling | Nom. | kW | | | 53.0 | 61.2 | 68.7 | 77.3 | 101 | 117 | 128 | 136 | 146 | 170 | 200 | 219 | | | | | |
| Capacity control | Method | | | Step | | | | | | | | | | | | | | | | | | | |
| | Minimum capacity | | | % | | | 25 | 21 | 25 | 22 | 23 | 25 | 21 | 20 | 25 | 17 | 14 | 17 | | | | | |
| EER | | | | | | | 3.12 | 3.07 | 3.08 | 3.05 | 3.00 | 2.92 | 3.01 | 2.99 | 2.96 | 2.90 | 2.95 | | | | | | |
| ESEER | | | | | | | 4.49 | 4.59 | 4.45 | 4.51 | 4.53 | 4.67 | 4.45 | 4.62 | 4.65 | 4.62 | 4.53 | 4.75 | 4.63 | 4.54 | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | | | 2,271x1,224x4,413 | 2,271x1,224x5,313 | 2,271x1,224x6,213 | 2,221x2,258x3,210 | 2,271x1,224x6,213 | 2,221x2,258x3,210 | 2,221x2,258x4,110 | | 2,221x2,258x5,010 | | | 2,221x2,258x5,910 | | | | | |
| Weight | Unit | | | kg | | | 2,004 | 2,303 | 2,580 | 2,722 | 2,900 | 3,000 | 3,045 | 3,145 | 3,168 | 3,280 | 3,298 | 4,120 | 4,228 | 4,655 | | | |
| | Operation weight | | | kg | | | 2,017 | 2,317 | 2,594 | 2,736 | 2,914 | 3,014 | 3,085 | 3,185 | 3,208 | 3,326 | 3,344 | 4,166 | 4,288 | 4,716 | | | |
| Water heat exchanger | Type | | | Plate heat exchanger | | | | | | | | | | | | | | | | | | | |
| | Water volume | | | l | | | 12 | 14 | | | 40 | | | 46 | | | 60 | | | | | | |
| | Nominal water flow | | | Cooling | | | l/s | | | 7.9 | 9.0 | 10.1 | 11.3 | 14.5 | | 16.3 | 18.4 | 19.5 | 20.7 | 24.0 | 27.7 | 30.9 | |
| | Nominal water pressure drop | | | Cooling | | | Total | | | kPa | | | 24 | 25 | 31 | 39 | 21 | | 28 | 26 | 27 | 38 | 40 |
| 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 | | | 6 | | | 8 | | | 10 | | | 12 | | | | |
| | Air flow rate | | | Nom. | | | l/s | | | 16,743 | 16,285 | 20,618 | 19,522 | 24,428 | | 23,426 | 32,570 | 31,235 | | 39,044 | 46,852 | | |
| | Speed | | | rpm | | | 705 | | | | | | | | | | | | | | | | |
| Sound power level | Cooling | Nom. | | dBA | | | 83 | 84 | 85 | 86 | 87 | | | 89 | 90 | 89 | 90 | 92 | | | | | |
| Sound pressure level | Cooling | Nom. | | dBA | | | 64 | 65 | 66 | 67 | 68 | 67 | 68 | 69 | 70 | 69 | 70 | 71 | | | | | |
| Operation range | Water side | | | Cooling | | | Min.~Max. | | | °CDB | | | | | | | | | | | | | |
| | Air side | | | Cooling | | | Min.~Max. | | | °CDB | | | | | | | | | | | | | |
| Refrigerant | Type | | | R-410A | | | | | | | | | | | | | | | | | | | |
| | Circuits | | | Quantity | | | 2 | | | | | | | | | | | | | | | | |
| Refrigerant circuit | Charge | | | kg | | | 14 | 18 | | 21 | 24 | | | 35 | | | 40 | | 46 | | | | |
| Piping connections | Evaporator water inlet/outlet (OD) | | | 3" | | | | | | | | | | | | | | | | | | | |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | | | | | | | | | | | | | | | | | | | |
| | | | | 3~/50/400 | | | | | | | | | | | | | | | | | | | |