



Air cooled screw
inverter chiller,
high efficiency,
standard/reduced
sound

EWAD-TZXS/XR

R-134a



Inverter



Screw compressor

- › High energy efficiency both at full and part load conditions
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)

- › Compact design for small footprint and minimized installation space

EWAD-TZXS/XR



| Cooling only | | | | EWAD-TZXS/XR | | | | | | | | | | | | | | | | |
|----------------------|------------------------------------|---------------------|-----------|---|-----------|--------|--------|---------|--------|--------|--------|---------|--------|--------------------------|--------|--------|--------|-------|----|----|
| | | | | 180 | 220 | 265 | 290 | 330 | 360 | 380 | 410 | 440 | 490 | 540 | 580 | 630 | 690 | | | |
| Cooling capacity | Nom. | | | kW | 180 | 216 | 265 | 288 | 332 | 366 | 407 | 441 | 490 | 536 | 577 | 629 | 682 | | | |
| Power input | Cooling | Nom. | | kW | 56.1 | 68.4 | 84.6 | 89.8 | 106 | 113 | 128 | 139 | 156 | 169 | 185 | 201 | 216 | | | |
| Capacity control | Method | | | Stepless | | | | | | | | | | | | | | | | |
| | Minimum capacity | | | % | 33.3 | 28.6 | 30.8 | 28.6 | 25.0 | 23.5 | 16.7 | 15.4 | 14.3 | 16.7 | 15.4 | 14.3 | 13.3 | 12.5 | | |
| EER | | | | | 3.20 | 3.16 | 3.14 | 3.21 | 3.14 | 3.18 | 3.16 | 3.17 | 3.15 | 3.17 | 3.12 | 3.16 | | | | |
| ESEER | | | | | 5.02 | 5.09 | 5.10 | 5.16 | 5.23 | 5.02 | 5.10 | 5.05 | 5.02 | 5.18 | 5.15 | 5.12 | | | | |
| IPLV | | | | | 6.32 | 6.20 | 6.33 | 6.26 | 6.32 | 6.37 | 6.38 | 6.47 | 6.39 | 6.42 | 6.48 | 6.44 | 6.53 | 6.51 | | |
| Dimensions | Unit | Height | | mm | 2,270 | | | | | | | | 2,222 | | | | | | | |
| | | Width | | mm | 1,224 | | | | | | | | 2,258 | | | | | | | |
| | | Depth | | mm | 4,361 | 5,261 | 3,218 | 4,117 | | | | 5,015 | | | | 5,917 | 6,817 | | | |
| Weight | Unit | | kg | 2,060 | 2,304 | 2,434 | 2,582 | 2,986 | 3,039 | 4,247 | 4,321 | 4,704 | 4,706 | 4,882 | 5,185 | 5,275 | 5,588 | | | |
| | Operation weight | | kg | 2,081 | 2,404 | 2,586 | 2,734 | 3,035 | 3,088 | 4,417 | 4,479 | | | | 5,152 | 5,455 | 5,537 | 5,843 | | |
| Water heat exchanger | Type | | | Plate heat exchanger | | | | | | | | | | | | | | | | |
| | Water volume | | | l | 20 | 24 | 39 | 50 | 170 | 158 | 270 | 262 | 255 | Single pass shell & tube | | | | | | |
| | Water flow rate | Cooling | Nom. | l/s | 8.6 | 10.4 | 12.7 | 13.8 | 15.9 | 17.2 | 17.5 | 19.5 | 21.1 | 23.5 | 25.7 | 27.6 | 30.1 | 32.7 | | |
| | | Water pressure drop | | Cooling | Total | kPa | 24 | 25 | 19 | 22 | 23 | 26 | 40 | 41 | 48 | 56 | 30 | 34 | 44 | 57 |
| Air heat exchanger | Type | | | High efficiency fin and tube type with integral subcooler | | | | | | | | | | | | | | | | |
| Compressor | Type | | | Inverter driven single screw compressor | | | | | | | | | | | | | | | | |
| | Quantity | | | 1 | | | | | | | | 2 | | | | | | | | |
| Fan | Type | | | Direct propeller | | | | | | | | | | | | | | | | |
| | Quantity | | | 4 | 5 | 6 | 8 | 10 | 12 | 14 | | | | | | | | | | |
| | Air flow rate | Nom. | | l/s | 16,015 | 20,665 | 20,019 | 24,023 | 33,064 | 32,030 | 33,064 | 32,030 | 41,330 | 40,038 | 49,597 | 48,046 | 56,053 | | | |
| | Speed | | | rpm | 700 | | | | | | | | | | | | | | | |
| Sound power level | Cooling | Nom. | | dB(A) | 96 | 97 | 96 | 97 | 98 | 99 | 100 | 99 | 100 | 101 | | | | | | |
| Sound pressure level | Cooling | Nom. | | dB(A) | 77 | | | | 78 | 80 | 79 | 80 | 79 | | 80 | | | | | |
| Operation range | Air side | Cooling | Min.-Max. | °CDB | -18~49 | | | | | | | | | | | | | | | |
| | Water side | Cooling | Min.-Max. | °CDB | -8~15 | | | | | | | | | | | | | | | |
| Refrigerant | Type / GWP | | | R-134a / 1,430 | | | | | | | | | | | | | | | | |
| | Circuits | | | Quantity | 1 | | | | | | | | 2 | | | | | | | |
| Refrigerant charge | Per circuit | | | kg | 31.0 | 37.0 | 45.0 | 49.0 | 57.0 | 61.0 | 31.0 | 34.5 | 37.5 | 42.0 | 45.5 | 49.0 | 53.5 | 58.0 | | |
| | | | | TCO ₂ eq | 44.3 | 52.9 | 64.4 | 70.1 | 81.5 | 87.2 | 44.3 | 49.3 | 53.6 | 60.1 | 65.1 | 70.1 | 76.5 | 82.9 | | |
| Piping connections | Evaporator water inlet/outlet (OD) | | | 88.9mm | | | | 139.7mm | | | | 168.3mm | | | | | | | | |
| Unit | Starting current | | | Max | 3 | | | | | | | | | | | | | | | |
| | Running current | Cooling | Nom. | A | 98 | 118 | 144 | 153 | 182 | 194 | 202 | 220 | 239 | 267 | 289 | 315 | 344 | 368 | | |
| | | Max | | A | 124 | 146 | 174 | 190 | 225 | 239 | 247 | 267 | 292 | 321 | 347 | 379 | 411 | 444 | | |
| 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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