



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

EWAD-CZXS/XL

R-134a



Inverter

- › High efficiency with leader-of-class ESEER
- › Inverter stepless single-screw compressor
- › Highly efficient fans with patented blade profile for quiet operation



Screw compressor

- › Extensive option list (heat recovery option available)

EWAD-CZXS/XL



| Cooling only | | | | EWAD-CZXS/XL | | | | | | | | | | | | |
|---------------------------|------------------------------------|---|-----------|---------------------|-----------|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|-------|
| | | | | 740 | 830 | 900 | C10 | C11 | C12 | C13 | C14 | C15 | C16 | C17 | C18 | |
| Cooling capacity | Nom. | | | kW | 734 | 828 | 898 | 1,033 | 1,090 | 1,232 | 1,303 | 1,444 | 1,538 | 1,616 | 1,701 | 1,795 |
| Power input | Cooling | Nom. | | kW | 239 | 269 | 309 | 343 | 380 | 404 | 447 | 494 | 538 | 564 | 596 | 619 |
| Capacity control | Method | Stepless | | | | | | | | | | | | | | |
| | Minimum capacity | | | % | 20.0 | | | | | | | | 13.0 | | | |
| EER | | | | 3.07 | | 2.90 | 3.01 | 2.87 | 3.05 | 2.92 | 2.93 | 2.86 | | 2.85 | 2.90 | |
| ESEER | | | | 4.72 | 4.89 | 4.88 | 4.91 | 4.70 | | 4.51 | 4.73 | 4.83 | 4.59 | 4.62 | 4.61 | |
| IPLV | | | | 5.68 | 5.72 | 5.79 | 5.73 | 5.56 | 5.58 | 5.45 | 5.61 | 5.75 | 5.65 | 5.46 | 5.29 | |
| Dimensions | Unit | Height | | | mm | 2,540 | | | | | | | | | | |
| | | Width | | | mm | 2,285 | | | | | | | | | | |
| | | Depth | | | mm | 6,725 | 7,625 | 8,525 | 10,325 | 11,625 | 12,525 | 13,425 | 14,325 | | | |
| Weight (XS) | Unit | | | kg | 6,000 | 6,620 | 6,870 | 7,440 | 8,570 | 8,970 | 9,600 | 9,940 | 11,370 | 12,190 | 12,920 | |
| | Operation weight | | | kg | 6,250 | 6,860 | 7,110 | 7,880 | 8,960 | 9,360 | 9,980 | 10,320 | 12,220 | 13,040 | 13,790 | |
| Weight (XL) | Unit | | | kg | 6,280 | 6,900 | 7,150 | 7,720 | 8,850 | 9,250 | 9,880 | 10,220 | 11,790 | 12,610 | 13,340 | |
| | Operation weight | | | kg | 6,530 | 7,140 | 7,390 | 8,160 | 9,240 | 9,640 | 10,260 | 10,600 | 12,640 | 13,460 | 14,210 | |
| Water heat exchanger | Type | Single pass shell & tube | | | | | | | | | | | | | | |
| | Water volume | | | l | 248 | 241 | 441 | 383 | 374 | 850 | 871 | | | | | |
| | Water flow rate | Cooling | Nom. | l/s | 35.2 | 39.7 | 43.0 | 49.5 | 52.3 | 59.0 | 62.4 | 69.2 | 73.7 | 77.4 | 81.5 | 86.0 |
| | Water pressure drop | Cooling | Nom. | kPa | 83 | 58 | 65 | 63 | 70 | 47 | 52 | 62 | 72 | 63 | 69 | 65 |
| Air heat exchanger | Type | High efficiency fin and tube type with integral subcooler | | | | | | | | | | | | | | |
| Compressor | Type | Asymmetric single screw compressor | | | | | | | | | | | | | | |
| | Quantity | | | | 2 | | | | | | | | 3 | | | |
| Fan | Type | Direct propeller | | | | | | | | | | | | | | |
| | Quantity | | | | 12 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | | | |
| | Air flow rate | Nom. | l/s | 65,026 | 75,863 | 86,701 | 108,376 | 119,214 | 130,051 | 129,455 | 140,143 | 151,130 | | | | |
| | Speed | | | rpm | 900 | | | | | | | | | | | |
| Sound power level (XS) | Cooling | Nom. | dB(A) | 102 | 103 | | | 104 | | | 106 | | | | | |
| Sound power level (XL) | Cooling | Nom. | dB(A) | 99 | 100 | | | 101 | | | 103 | | | | | |
| Sound pressure level (XS) | Cooling | Nom. | dB(A) | 81 | | | | | | | | 83 | | | | |
| Sound pressure level (XL) | Cooling | Nom. | dB(A) | 78 | | | | | | | | 80 | | | | |
| Operation range | Water side | Cooling | Min.-Max. | °CDB | -8~15 | | | | | | | | | | | |
| | Air side | Cooling | Min.-Max. | °CDB | -18~50 | | | | | | | | | | | |
| Refrigerant | Type / GWP | R-134a / 1,430 | | | | | | | | | | | | | | |
| | Circuits | | | Quantity | 2 | | | | | | | | 3 | | | |
| Refrigerant charge | Per circuit | | | kg | 73.0 | 81.0 | 100.0 | 125.0 | 140.0 | 106.7 | 113.3 | 116.7 | | | | |
| | Per circuit | | | TCO ₂ Eq | 104.4 | 115.8 | 143.0 | 178.8 | 200.2 | 152.5 | 162.1 | 166.8 | | | | |
| Piping connections | Evaporator water inlet/outlet (OD) | | | 168.3mm | | | | 219.1mm | | | | 273mm | | | | |
| Unit | Maximum starting current | | | A | 374 | 416 | 447 | 496 | 534 | 585 | 620 | 703 | 765 | 840 | 890 | 940 |
| | Nominal running current (RLA) | Cooling | A | 403 | 438 | 481 | 532 | 586 | 630 | 692 | 762 | 829 | 873 | 922 | 962 | |
| | Maximum running current | | | A | 524 | 579 | 626 | 691 | 748 | 816 | 869 | 970 | 1,072 | 1,121 | 1,182 | 1,243 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 3~/50/400 | | | | | | | | | | | |

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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