



Air cooled scroll inverter heat pump

EWYQ-BAWN/BAWP

R-410A



Inverter



Scroll compressor

- › High efficiency with leader-of-class ESEER
- › Minimal starting currents and short payback times
- › A Modbus interface (RTD-W) can be installed per unit for monitoring and control by Daikin or third-party BMS

- › No buffer tank required for standard applications
- › Large operation range (ambient temperature up to 43°C)

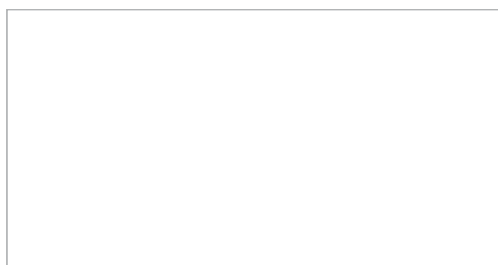
EWYQ-BAWN/BAWP



| Heating & Cooling | | EWYQ-BAWN/BAWP | | 016 | 021 | 025 | 032 | 040 | 050 | 064 | | | | | | | | | | |
|---------------------|-----------------------------------|-----------------|--|---------------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------|--------|-----------------|-----|-----------------|-----|-----------------|--|
| Cooling capacity | Nom. | kW | | 17.4 (1) / 16.6 (2) | 21.7 (1) / 20.7 (2) | 25.8 (1) / 24.7 (2) | 32.3 (1) / 30.9 (2) | 43.4 (1) / 41.5 (2) | 51.8 (1) / 49.7 (2) | 64.5 (1) / 62.3 (2) | | | | | | | | | | |
| Heating capacity | Nom. | kW | | 16.2 (1) / 17.0 (2) | 20.3 (1) / 21.3 (2) | 24.6 (1) / 25.7 (2) | 30.7 (1) / 32.1 (2) | 40.6 (1) / 42.5 (2) | 49.0 (1) / 51.1 (2) | 61.5 (1) / 63.7 (2) | | | | | | | | | | |
| Power input | Cooling | Nom. | | kW | | 5.60 (1) / 5.80 (2) | 7.25 (1) / 7.59 (2) | 9.29 (1) / 9.74 (2) | 13.0 (1) / 13.5 (2) | 18.8 (1) / 19.7 (2) | 26.4 (1) / 27.4 (2) | | | | | | | | | |
| | Heating | Nom. | | kW | | 5.53 (1) / 5.73 (2) | 7.10 (1) / 7.44 (2) | 8.91 (1) / 9.36 (2) | 10.6 (1) / 11.1 (2) | 14.0 (1) / 14.7 (2) | 17.6 (1) / 18.5 (2) | 20.7 (1) / 21.7 (2) | | | | | | | | |
| Capacity control | Method | | Inverter controlled | | | | | | | | | | | | | | | | | |
| | Minimum capacity | | % | | | | | | | | | | | | | | | | | |
| EER | | | | | 3.11 (1) / 2.86 (2) | 2.99 (1) / 2.73 (2) | 2.78 (1) / 2.54 (2) | 2.48 (1) / 2.29 (2) | 2.95 (1) / 2.69 (2) | 2.76 (1) / 2.52 (2) | 2.44 (1) / 2.27 (2) | | | | | | | | | |
| ESEER | | | | | 4.33 (1) / 4.21 (2) | 4.08 (1) / 4.18 (2) | 3.85 (1) / 4.04 (2) | 3.39 (1) / 3.62 (2) | 4.19 (1) / 4.24 (2) | 3.96 (1) / 4.12 (2) | 3.64 (1) / 3.78 (2) | | | | | | | | | |
| COP | | | | | 2.93 (1) / 2.97 (2) | 2.86 (1) / 2.86 (2) | 2.76 (1) / 2.75 (2) | 2.90 (1) / 2.89 (2) | 2.90 (1) / 2.89 (2) | 2.78 (1) / 2.76 (2) | 2.97 (1) / 2.94 (2) | | | | | | | | | |
| Space heating | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | 130(1)/133(2) | | 126(1)/126(2) | | 130(1)/121(2) | | 120(1)/119(2) | | 126(1)/126(2) | | 138(1)/121(2) | | 121(1)/119(2) | | | |
| | | | | | SCOP | | 3.33(1)/3.39(2) | | 3.22(1)/3.22(2) | | 3.32(1)/3.09(2) | | 3.08(1)/3.06(2) | | 3.22(1)/3.21(2) | | 3.53(1)/3.08(2) | | 3.09(1)/3.04(2) | |
| | | | | | Seasonal space heating eff. class | | A+(1)/A+(2) | | A+(1)/A(2) | | A(1)/A(2) | | A+(1)/A+(2) | | A+(1)/A(2) | | A(1)/A(2) | | | |
| Dimensions | Unit | Height | | mm | | 1,684 | | 1,684 | | 2,358 | | 2,980 | | | | | | | | |
| | | Width | | mm | | 1,371 | | 774 | | 780 | | 730 | | | | | | | | |
| | | Depth | | mm | | 264 | | 317 | | 397 | | 571 | | 730 | | | | | | |
| Weight | Operation weight | | kg | | 267 | | 320 | | 401 | | 577 | | 738 | | | | | | | |
| | Water heat exchanger | Type | | Brazed plate | | | | | | | | | | | | | | | | |
| Water volume | | l | | 1.9 | | 2.9 | | 3.8 | | 5.7 | | | | | | | | | | |
| Water flow rate | | Cooling | Nom. | l/min | | 50 | | 62 | | 74 | | 93 | | 124 | | 148 | | 185 | | |
| | | Heating | Nom. | l/min | | 46 | | 58 | | 71 | | 88 | | 116 | | 140 | | 176 | | |
| Water pressure drop | Cooling | Total | | kPa | | 20 | | 30 | | 42 | | 30 | | 42 | | 30 | | | | |
| | | Type | | Hi-XSS | | | | | | | | | | | | | | | | |
| Compressor | Type | | Hermetically sealed scroll compressor | | | | | | | | | | | | | | | | | |
| | Quantity | | 1 | | 2 | | 3 | | 4 | | 6 | | | | | | | | | |
| Fan | Type | | Axial | | | | | | | | | | | | | | | | | |
| | Quantity | | 1 | | 2 | | 2 | | 4 | | 4 | | | | | | | | | |
| | Air flow rate | Cooling | Nom. | m³/min | | 171 | | 185 | | 233 | | 370 | | 466 | | | | | | |
| Heating | | Nom. | m³/min | | 171 | | 185 | | 233 | | 370 | | 466 | | | | | | | |
| Sound power level | Cooling | Nom. | | dB(A) | | 78 | | 80 | | 81 | | 83 | | | | | | | | |
| | | Operation range | Water side | Cooling | Min.-Max. | °CDB | | 5~20 | | 25~50 | | -5~43 | | -15~35 | | | | | | |
| Heating | Min.-Max. | | | °CDB | | 25~50 | | -5~43 | | -15~35 | | | | | | | | | | |
| Air side | Cooling | | Min.-Max. | °CDB | | -5~43 | | -15~35 | | | | | | | | | | | | |
| | Heating | | Min.-Max. | °CDB | | -15~35 | | | | | | | | | | | | | | |
| Refrigerant | Type / GWP | | R-410A / 2,087.5 | | | | | | | | | | | | | | | | | |
| | Control | | Electronic expansion valve | | | | | | | | | | | | | | | | | |
| | Circuits | | Quantity | | 1 | | 1 | | 1 | | 1 | | | | | | | | | |
| Refrigerant charge | Per circuit | | kg | | 7.6 | | 9.6 | | 15.2 | | 19.2 | | | | | | | | | |
| | Per circuit | | TCO _{Eq} | | 15.9 | | 20.0 | | 31.7 | | 40.1 | | | | | | | | | |
| Water circuit | Piping connections diameter | | inch | | 1-1/4" (female) | | 2" | | 2" (female) | | 1-1/2" | | | | | | | | | |
| | Piping | | inch | | 1-1/4" | | | | | | | | | | | | | | | |
| Unit | Maximum starting current | | A | | 0 | | 77.7 | | 88.7 | | 99.8 | | 101.9 | | 120.7 | | | | | |
| | Maximum running current | | A | | 22.2 | | 25.3 | | 26.4 | | 35.2 | | 47.4 | | 49.6 | | 67.2 | | | |
| Power supply | Phase/Frequency/Voltage | | Hz/V | | 3N~ | | /50/400 | | | | | | | | | | | | | |

(1) EWYQ-BAWN: Naked version (2) EWYQ-BAWP: Version with pump
 Cooling: Tamb 35°C - LWE 7°C (DT=5°C) Heating: DB/WB 7°C/6°C - LWC 35°C (DT=5°C)
 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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