

1. Outdoor Unit

1-1. Specifications

Unit specifications (For Europe)

| Outdoor | | MODEL | U-8LZ2E8 | | | U-10LZ2E8 | | |
|--|--|-------------------------------------|-------------|-------------|-------------------------------------|-------------|-------------|-------|
| Performance test condition | | EN14511, EN14825 | | | EN14511, EN14825 | | | |
| Power supply | V, ϕ , Hz | 380-400-415V,3 ϕ ,50Hz | | | 380-400-415V,3 ϕ ,50Hz | | | |
| | Wire | 4W | | | 4W | | | |
| | V | 380 | 400 | 415 | 380 | 400 | 415 | |
| Cooling | Capacity | kW | 22.4 | 22.4 | 22.4 | 28.0 | 28.0 | 28.0 |
| | | BTU/h | 76500 | 76500 | 76500 | 95600 | 95600 | 95600 |
| | Current | A | 9.73 | 9.25 | 8.91 | 13.2 | 12.5 | 12.1 |
| | Input power | kW | 5.83 | 5.83 | 5.83 | 8.07 | 8.07 | 8.07 |
| | EER | kW / kW | 3.84 | 3.84 | 3.84 | 3.47 | 3.47 | 3.47 |
| | Power factor | % | 91 | 91 | 91 | 93 | 93 | 93 |
| | SEER | kW / kW | 7.56 | | | 7.08 | | |
| | η_{sc} | % | 299.4 | | | 280.2 | | |
| | Noise outdoor | dB-A (Normal) | 59.0 | | | 60.0 | | |
| | | Power Level dB (Normal) | 72.0 | | | 74.0 | | |
| dB-A (Silent 1) | | 56.0 | | | 57.0 | | | |
| dB-A (Silent 2) | | 54.0 | | | 55.0 | | | |
| dB-A (Silent 3) | | 52.0 | | | 53.0 | | | |
| Heating | Capacity | kW | 25.0 | 25.0 | 25.0 | 28.0 | 28.0 | 28.0 |
| | | BTU/h | 85300 | 85300 | 85300 | 95600 | 95600 | 95600 |
| | Current | A | 9.81 | 9.32 | 8.98 | 10.5 | 9.93 | 9.57 |
| | Input power | kW | 5.81 | 5.81 | 5.81 | 6.26 | 6.26 | 6.26 |
| | COP | kW / kW | 4.30 | 4.30 | 4.30 | 4.47 | 4.47 | 4.47 |
| | Power factor | % | 90 | 90 | 90 | 91 | 91 | 91 |
| | SCOP | kW / kW | 4.59 | | | 4.60 | | |
| | η_{sh} | % | 180.6 | | | 181.0 | | |
| | Noise outdoor | dB-A (Normal) | - | | | - | | |
| | | Power Level dB | - | | | - | | |
| Max current(A) / Max input power(kW) | | 13.7 / 8.21 | 13.7 / 8.64 | 13.7 / 8.96 | 19.5 / 11.9 | 19.5 / 12.6 | 19.5 / 13.0 | |
| Starting current(A) / Comp output(kW) | | 1 / - | 1 / - | 1 / - | 1 / - | 1 / - | 1 / - | |
| Time delay fuse max size(A) | | 25 | | | 30 | | | |
| Earth leakage circuit breaker max size(A) | | 25 | | | 30 | | | |
| Fan motor output W / Pole number | | 120 | / | 8 | 120 | / | 8 | |
| External static pressure Pa | | 0 ~ 35 | | | 0 ~ 35 | | | |
| Air flow m ³ / min | | 158 | | | 167 | | | |
| Refrigerant type / amount(ship) kg/ amount(max) kg | | R32 / 4.9 kg / 15.9 kg | | | R32 / 5.1 kg / 15.9 kg | | | |
| F-Gas | GWP / CO ₂ eq (ton) (PRECHARGED AMOUNT) / CO ₂ eq (ton) (MAXIMUM CHARGED AMOUNT) | 675 / 3.31 ton / 10.7 ton | | | 675 / 3.44 ton / 10.7 ton | | | |
| | | | | | | | | |
| Product dimension | Height | mm | 1500 | | | 1500 | | |
| | Width | mm | 980 | | | 980 | | |
| | Depth | mm | 370 | | | 370 | | |
| Packing dimension | Height | mm | 1642 | | | 1642 | | |
| | Width | mm | 1095 | | | 1095 | | |
| | Depth | mm | 529 | | | 529 | | |
| Weight | (NET) kg | 125 | | | 126 | | | |
| | (GROSS) kg | 133 | | | 134 | | | |
| Layers limit | | 2 | | | 2 | | | |
| Operation condition (Outdoor) | Cool (DBT) | -10°C ~ 52°C | | | -10°C ~ 52°C | | | |
| | Heat (WBT) | -20°C ~ 18°C | | | -20°C ~ 18°C | | | |
| Max. working pressure | High side bar (MPa) | 41.5 (4.15) | | | 41.5 (4.15) | | | |
| | Low side bar (MPa) | 22.6 (2.26) | | | 22.6 (2.26) | | | |
| Piping | Pipe diameter mm (inch) (Under 90m for ultimate Indoor unit) | (Liquid) 9.52(3/8) (Gas) 19.05(3/4) | | | (Liquid) 9.52(3/8) (Gas) 22.22(7/8) | | | |
| | Pipe diameter mm (inch) (Over 90m for ultimate Indoor unit) | - | | | - | | | |
| | Balance pipe mm (inch) | - | | | - | | | |
| | Connecting method | flared(Liquid), flared(Gas) | | | flared(Liquid), flared(Gas) | | | |
| | Max tubing length m | 7.5 ~ 100 | | | 7.5 ~ 100 | | | |
| | Total max tubing length m | 300 | | | 300 | | | |
| | Indoor unit & Outdoor unit height difference (Outdoor unit upper / Outdoor unit Lower) m | 50 / 40 | | | 50 / 40 | | | |
| Max connectable indoor units pcs. | | 16 | | | 16 | | | |
| Max allowable indoor/outdoor capacity ratio % | | 50~150 (130 *1) | | | 50~150 (130 *1) | | | |

*1 Max allowable indoor/outdoor capacity ratio in case of 1.5kW indoor unit's connection.