

Model: OMICRON Sky S4 R5 SLN 17.4 / EC
Option: -



COOLING

| Performance data | | |
|--------------------------------|-------------------|-------|
| Cooling capacity (A2) | kW | 163 |
| Total input power (A2) | kW | 48.5 |
| Compressor input power | kW | 46.0 |
| Input current | A | 88.8 |
| Power factor | - | 0.78 |
| EER | W/W | 3.36 |
| SEER ^(B0) | W/W | 4.46 |
| $\eta_{s,c}^{(B0)}$ | % | 175 |
| Source | | |
| Altitude | m | 0.0 |
| Dry bulb outdoor air | °C | 35.0 |
| Outdoor air Relative humidity | % | 49.8 |
| Air flow rate | m ³ /h | 61590 |
| Fan input power | kW | 2.25 |
| Fan input current | A | 4.85 |
| Fans available static pressure | Pa | 0 |

| User | | |
|---|---------------------|----------|
| Fluid type | | Water |
| Fouling fact. | m ² K/kW | 0.000 |
| In/out fluid temperature | °C | 12.0/6.0 |
| Fluid flow rate | m ³ /h | 23.39 |
| Circuit pressure drops | kPa | 22.1 |
| Sound data | | |
| Calculated sound power | dB(A) | 79 |
| Sound pressure ^(C0) [10.0 m] | dB(A) | 47 |

HEATING⁶⁶

| Performance data | | |
|---|-------------------|--------|
| Heating capacity | kW | 115 |
| Total input power (A2) | kW | 48.7 |
| Compressor input power | kW | 43.2 |
| Input current | A | 90.1 |
| Power factor | - | 0.78 |
| COP | W/W | 2.36 |
| SCOP LT ^(B2) /MT ^(B3) | W/W | 3.76/- |
| $\eta_{s,h}^{LT(B2)/MT(B3)}$ | % | 147/- |
| Source | | |
| Altitude | m | 0.0 |
| Dry bulb outdoor air | °C | -4.0 |
| Outdoor air Relative humidity | % | 86.9 |
| Air flow rate | m ³ /h | 82647 |
| Fan input power | kW | 5.38 |
| Fan input current | A | 10.5 |
| Fans available static pressure | Pa | 0 |

| User | | |
|---|---------------------|-----------|
| Fluid type | | Water |
| Fouling fact. | m ² K/kW | 0.000 |
| In/out fluid temperature | °C | 40.0/44.9 |
| Fluid flow rate | m ³ /h | 20.23 |
| Circuit pressure drops | kPa | 14.1 |
| Sound data | | |
| Calculated sound power | dB(A) | 79 |
| Sound pressure ^(C0) [10.0 m] | dB(A) | 47 |

COOLING DURING HEATING

| Performance data | | |
|--------------------------|--------------------|-----------|
| Cooling capacity (A2) | kW | 156 |
| Heating capacity | kW | 200 |
| Spare Capacity | - | 0.0% |
| Total input power (A2) | kW | 45.2 |
| Compressor input power | kW | |
| Input current | A | 80.3 |
| Power factor | - | 0.80 |
| TER | W/W | 7.88 |
| Hot User | | |
| Fluid type | | Water |
| Fouling fact. | m ² K/k | 0.000 |
| In/out fluid temperature | °C | 40.0/45.0 |
| Fluid flow rate | m ³ /h | 34.70 |
| Circuit pressure drops | kPa | 36.6 |

| Cold User | | |
|---|--------------------|----------|
| Fluid type | | Water |
| Fouling fact. | m ² K/k | 0.000 |
| In/out fluid temperature | °C | 12.0/6.0 |
| Fluid flow rate | m ³ /h | 22.31 |
| Circuit pressure drops | kPa | 21.6 |
| Sound data | | |
| Calculated sound power | dB(A) | 79 |
| Sound pressure ^(C0) [10.0 m] | dB(A) | 47 |

DESIGN AND SIZING DATA

| GENERAL DATA | | |
|-------------------------------|----|--------|
| Compressor type | | Scroll |
| Number of compressors | | 4 |
| Number of circuits | | 2 |
| Capacity steps | | 4 |
| Minimum capacity step | % | 25.0 |
| Refrigerant type | | R454B |
| GWP | | 466.0 |
| Total refrigerant charge (R1) | kg | 43.6 |
| CO2 equivalent charge | kg | 20318 |
| Total oil charge | kg | 28.8 |

| DIMENSIONS | | |
|-----------------|----|------|
| Length | mm | 2297 |
| Width | mm | 2256 |
| Height | mm | 2443 |
| Shipping weight | kg | 2149 |
| Net weight | kg | 2149 |

| FANS | | |
|--------------------------|----|-------|
| Fan type | | Axial |
| Fan motor | | EC |
| Number of fans | | 4 |
| Maximum input power (P1) | kW | 5.82 |
| Maximum input current | A | 11.2 |

| ELECTRICAL DATA | | |
|------------------------------|---------|------------|
| Nominal voltage supply | Ph/V/Hz | 3/400/50.0 |
| Maximum voltage supply | V | 440 |
| Minimum voltage supply | V | 360 |
| Maximum input power (P1) | kW | 74.4 |
| Maximum input current | A | 128 |
| Maximum peak current | A | 296 |
| Input power in stand-by mode | kW | 0.236 |
| Power factor | | 0.84 |

| Sound data | | |
|---|-------|----|
| 63 | dB | 82 |
| 125 | dB | 72 |
| 250 | dB | 71 |
| 500 | dB | 73 |
| 1000 | dB | 74 |
| 2000 | dB | 74 |
| 4000 | dB | 70 |
| 8000 | dB | 65 |
| Calculated sound power | dB(A) | 79 |
| Sound pressure ^(C0) [10.0 m] | dB(A) | 47 |

(A0) Technical data shown are not binding. The Company shall have the right to introduce at any time whatever modifications necessary to the improvement of the product.

(A1) Dimensional data shown are not binding.

(A2) According to standard: EN 14511-2018

(B0) Calculated according to Commission Regulation (EU) 2016/2281: Average/-/Fan coil/Variable outlet/Constant user flow rate/-

(B2) Calculated according to Commission Regulation (EU) 2013/813: Average/Outdoor air/Low temperature/Variable outlet/Constant user flow rate/-

(C0) Noise pressure is calculated according to the following sound propagation method: Hemispherical ISO EN 3744 source

Values obtained from the sound power level, related to a distance indicated between brackets [] from the unit in free field with directivity factor Q=2.

None of the sound pressure values are binding.

(C0) Calculated sound power cooling mode: unit operating at nominal operating capacity, without any accessories, with external air temperature of 35°C and user-side heat exchanger water inlet-outlet temperature of 12-7°C. Values obtained from measures taken according to standard ISO 3744 and to the Eurovent certification programme

where applicable. Calculated sound power is the only binding value.

(H1) Sound pressure: values obtained from the sound power level, related to a distance indicated between brackets [] from the unit in free field with directivity factor Q=2. None of the sound pressure values are binding.

(H0) Calculated sound power heating mode: unit operating at nominal operating capacity, without any accessories, with external air temperature of 7°C and user-side heat exchanger water inlet-outlet temperature of 40-45°C. Values obtained from measures taken according to standard ISO 3744 and to the Eurovent certification programme where applicable. Calculated sound power is the only binding value.

The acoustic data relates to the standard conditions described above, in referable and reproducible operating modes.

All data except Calculated sound are given for the mere purpose of example and can not be used for predictive purposes or for the verification of enforced limits.

With specific reference to the acoustic emissions, the Manufacturer commits to their conformity limited to the declared "Calculated sound power" value.

Any liability of the Manufacturer is excluded concerning the impact of such emissions with reference to the location of the plant and to other conditions related to the installation of the unit.

The environment and the installation's characteristics, besides the operating modes, may alter the acoustic emissions.

The overall acoustic evaluation, with regard to site conditions, remains the responsibility of the installer.

(R1) The indicated refrigerant charge is calculated. The refrigerant charge can vary according to different versions/accessories and product updates.

(P1) Mains power supply to allow unit operation. Sum of components' full power absorption.

66: In cases where the unit is used for extended periods in similar conditions, evaluate the use of the appropriate accessories for use in situations with low outside air temperatures (if available) : IDRO VASC RAV RAM KTC.