High Performance Air Conditioning

Efficiency, Compactness, Flexibility

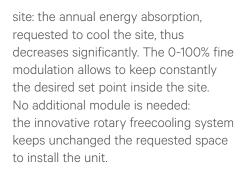
Liebert HPS is the high performance split air conditioner designed to ensure proper environmental conditions inside technological environments, especially for mobile networks. Liebert HPS guarantees an effective air distribution, while its highly efficient components ensure energy and space saving. The unit is available in several cooling versions thus guaranteeing extreme flexibility for any site application. Liebert HPS can be configured depending on the main application drivers (noise level, environmental conditions range etc.) and the desired options (freecooling, emergency freecooling, heating etc.).

Optimized Air Distribution

Liebert HPS delivers cold air straight down, close to the racks suction area and intakes the hot air out coming from the heat sources, into the cabinet sides (frontal and lateral). In this way the mixing effect between conditioner cold air and electronic equipment hot air is denied resulting in a double beneficial effect: the rack is supplied with cold air where needed and the air conditioner treats only the hot air maximizing its efficiency. This allows for proper temperature inside the racks, high efficiency of the cooling equipment and hot spot absence in the site.

Energy and Space Saving

The use of the optional freecooling gives the possibility to stop the compressor and use the external fresh air to cool the



Maximizing Site Reliability

Remote nodes need to exchange data continuously, always working at proper environmental conditions. The most modern design and components such as scroll compressor and plugtype fans, heat exchanger surfaces and airflows guarantee a 24/7 unit operation. Moreover, in case of main supply fault the air conditioner is supplied by alternative energy sources like 48 VDC batteries or independent AC generator.



Suitable for Any Site Application

Liebert HPS ensures optimal air distribution, efficiency, energy saving, reliability and compactness independently of its configuration. More stringent requirements in terms of noise level emission and maximum external working temperature can be satisfied selecting Liebert HPS advanced version: 45 dB(A) at 3m f.f and 50° C with internal air intake conditions of 30° C, 35% R.H.





Liebert HPS - Evaporative Ceiling-Mounted Module

Liebert HPS - Condensing Module

Liebert HPS - Condensing Module



Technical Specifications

| MODELS HPSE + HPSC | | 06 | 08 | 10 | 12 | 14 |
|---|-------|----------------------|-----------|-------------------------|---------------|-----------|
| Evaporating side installation | | | | Ceiling mounting | | |
| Main power supply | | 230/1N/50 | 400/3N/50 | 400/3N/50 | 400/3N/50 | 400/3N/50 |
| Emergency power supply (opt) | | | | 48V DC or 230/1N/50 | | |
| PERFORMANCES | | | | | | |
| Total cooling capacity ⁽¹⁾ | kW | 6.4 | 8.1 | 10.1 | 12.5 | 14.6 |
| Sensible cooling capacity ⁽¹⁾ | kW | 6.4 | 8.1 | 10.1 | 12.5 | 14.6 |
| Compressor power input ⁽¹⁾ | kW | 1.7 | 2.2 | 3.0 | 3.7 | 4.6 |
| Condenser fan power input ⁽¹⁾ | kW | 0.24 | 0.24 | 0.12 | 0.15 | 0.15 |
| Evaporator fan power input ⁽¹⁾ | kW | 0.18 | 0.35 | 0.35 | 0.33 | 0.33 |
| Evaporator airflow | m³/h | 1510 | 2360 | 2360 | 2770 | 2750 |
| Condenser max. airflow | m³/h | 2970 | 2970 | 6300 | 5675 | 5675 |
| Outdoor sound pressure level ⁽²⁾ | dB(A) | 48.5 | 48.5 | 52 | 54 | 56 |
| Indoor sound pressure level ⁽²⁾ | dB(A) | 58 | 62.5 | 62.5 | 63 | 63 |
| Max. ambient temperature ⁽³⁾ | °C | 52 | 50 | 50 | 50 | 50 |
| REFRIGERATION CIRCUIT | | | | | | |
| Compressor type/quantity | | | | scroll / 1 | | |
| Refrigerant | | | | R407C | | |
| Expansion device | | | | thermostatic valve | | |
| EVAPORATOR FAN | | | | | | |
| Quantity/type/poles version | | | | 1/Axial/4 | | |
| Driven/motor protection | | direct | / IP44 | | direct / IP54 | |
| CONDENSER FAN | | | | | | |
| Quantity/type/poles | | 1/ax | ial / 6 | | 2 / axial / 6 | |
| Driven/motor protection | | | | direct / IP54 | | |
| Control system | | | | variable speed | | |
| AIR FILTERY | | | | | | |
| Filter type / efficiency | | | | pleated / G3 | | |
| HEATING | | | | | | |
| Electric heating (opt) | kW | 1. | .5 | | 4.5 | |
| CABINET | | | | | | |
| Frame | | galvanized steel | | | | |
| Painting | | polyester – RAL 7035 | | | | |
| Insulation type/thikness | -/mm | | | polyurethane class A1/1 | 0 | |
| Evaporator Width | mm | | 800 | | 9 | 000 |
| Evaporator Depth | mm | 800 | | | 9 | 000 |
| Evaporator Height | mm | | 310 | | 3 | 375 |
| Evaporator Weight | kg | 50 | 53 | 53 | 58 | 58 |
| Condenser Width | mm | 92 | 20 | | 920 | |
| Condenser Depth | mm | 39 | 90 | | 390 | |
| Condenser Height | mm | 84 | 40 | | 1190 | |
| Condenser Weight | kg | 80 | 82 | 97 | 103 | 111 |

Ref. conditions: 30°C, 35% R.H indoor air intake, 35°C outdoor.
Measured with outdoor temperature 35°C, 2 meters from the unit, free field conditions (factory set).
Referred to 30°C indoor air intake.
Data referred to HPS standard version (no options)

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