

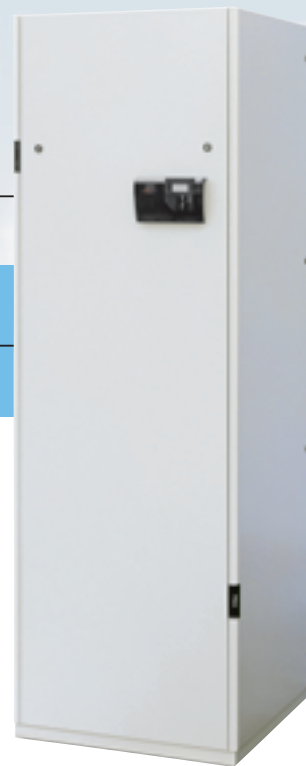
Liebert HIROSS



Hiline

HIGH PERFORMANCE AIR CONDITIONING

Hiline PI is the package direct expansion type, air conditioner range, with built-in air cooled condenser, for indoor installation, available in upflow and downflow version. Where there is minimum space, the compactness of the Slim version solves this problem (3 and 4Kw models available in a 295/600/2000 W/D/H frame).



Energy Saving And Cost Effective Cooling

The most modern design and components such as scroll compressor, plug-type fans and the freecooling mode assure high energy saving and greatly reduce running and lifetime

High Reliability

Hiline can be powered by 48VDC emergency power source in case of mains failure. Continued ventilation and the optional maximised freecooling assure constant operation of the telecommunications equipment and continued revenue from the site. 230/1/50 emergency supply is also available as an option.

High Connectivity

The standard on board control allows teamwork with other units and connectivity to innovative Liebert-HIROSS supervision system or to third-party monitoring. Connections can make use of existing Ethernet LAN and new interactive solutions via Web are available.

Faster Start-Up

The cooling circuit is pre-charged, fine tuned and fully tested before delivery. No pressure test is required on site. Installation is speeded up by using the fast-plug electrical connections (on request) and the automatic commissioning software: installation and commissioning are completed in less than 25 mins without need of specialized personnel on site.

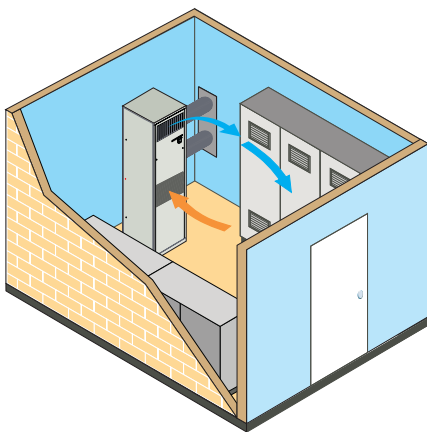
High Versatility

Upflow or downflow air supply version, combined with the back or side condenser connections make Hiline suitable for the most different sites configuration. Use the available full range of connection kit, to make your own installation true.

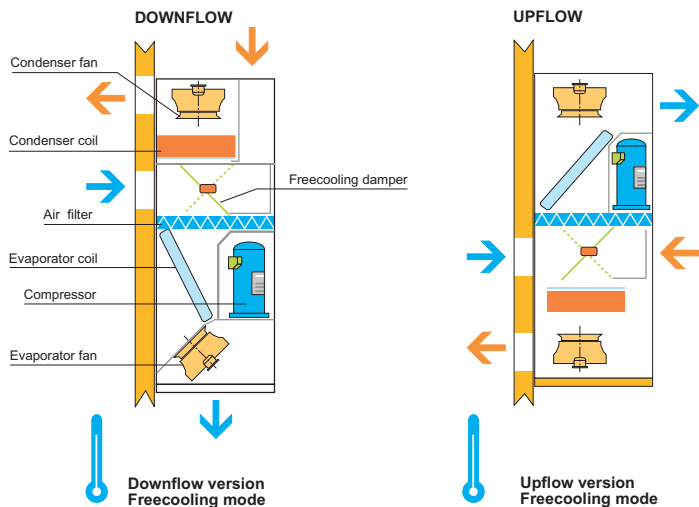
General Features

Model Hiline PI		05	07	10	12	15
Air supply		Under (U)/Over (O)				
Main power supply		230V/1Ph+N+PE/50HZ		400V/3Ph+N+PE/50HZ		
Emergency power supply (opt)		48V DC or 230V/1Ph/50HZ				
Performances						
Total cooling capacity ⁽¹⁾ U/O	kW	5,2/5,2	7,5/7,4	10,8/10,8	12,9/13,1	16,5/16,1
Sensible cooling capacity ⁽¹⁾ U/O	kW	5,2/5,2	6,9/7,1	10,8/10,8	12,9/13,1	15,3/15,7
Compressor AC power input ⁽¹⁾ U/O	kW	0,96/0,96	2,14/2,17	2,81/2,88	3,53/3,50	4,52/4,52
Condenser fan AC power input (@50Pa) ⁽¹⁾ U/O	kW	0,72/0,72	0,72/0,72	1,26/1,27	1,26/1,27	1,26/1,27
Evaporator fan AC power input ⁽¹⁾ U/O	kW	0,46/0,54	0,49/0,61	0,93/0,94	1,04/1,03	1,12/1,11
Evaporator fan DC power input ⁽¹⁾ U/O	kW	0,27	0,34	0,43	0,55	0,68
Evaporator airflow	m³/h	1.950/2.100	2.050/2.200	3.405/3.560	3.780/3.890	4.000/4.200
U (ESP 20 Pa)/O (ESP 50 Pa)						
Condenser airflow 50Pa / 200 Pa	m³/h		2.740/2.380		4.830/4.280	
Freecooling max.airflow U/O	m³/h	1.500/1.890	1.570/1920	3.180/3.180	3.480/3.480	3.740/3.740
Outdoor sound pressure level ⁽²⁾	dB(A)	60	60	62	62	62
Indoor sound pressure level ⁽²⁾	dB(A)	55	57	55	56	57
Max.ambient temperature ⁽³⁾	°C	45	45	45	45	45
Refrigeration Circuit						
Compressor type/quantity		scroll/1				
Refrigerant		R407C				
Expansion device		thermostatic valve				
Evaporator Fan						
Quantity/type/poles AC version		1/radial/4				
Quantity/type/poles DC version		1/plug/-			2/plug/-	
Driven/motor protection		direct/IP54				
Condenser Fan						
Quantity/type/poles		1/radial/4				
Driven/motor protection		direct/IP54				
Control system		variable speed				
Filter type/efficiency (EN 779)		pleated/G3				
Electric heating (opt)	kW	3,0	4,5		6,0	
Cabinet						
Frame		galvanized steel				
Painting		epoxydic powder				
Insulation type/thickness	-/mm	synthetic foam class 1/10				
Width	mm	650			900	
Depth	mm	650			750	
Height	mm	1.990			2.050	
Weight Under / Over	kg	228/232	231/236	287/292	287/292	297/302

(1) Reference conditions are 27°C, &47% R.H indoor, 35°C outdoor; nominal power supply.
 (2) Measured with outdoor temperature 35°C, 2 meters from the unit, free field conditions.
 (3) Maximum outdoor temperature referred to indoor air temperature =24°C.



Upflow version as example



Liebert HIROSS Headquarters
 Via Leonardo da Vinci, 8
 35028 - Piove di Sacco (PD)
 tel. +39.0499719311 fax +39.0499719053
 info@liebert-hiross.com

High Performance Air Conditioning
 Via Leonardo da Vinci, 8
 35028 - Piove di Sacco (PD)
 tel. +39.0499719311 fax +39.0499719053
 info.hpac@liebert-hiross.com

Uninterruptible Power Supply
 Via Gioacchino Rossini, 6
 20098 - San Giuliano Milanese (MI)
 tel. +39.02982501 fax +39.0298250337
 info.ups@liebert-hiross.com

Services
 Via Gioacchino Rossini, 6
 20098 - San Giuliano Milanese (MI)
 tel. +39.02982501 fax +39.0298250338
 info.ups@liebert-hiross.com