

Liebert HIROSS



Cabinet Cooler

HIGH PERFORMANCE AIR CONDITIONING

Cabinet Cooler is the indoor package air conditioner, direct expansion with built-in air cooled condenser especially designed for telecommunications sites like BTS, Fibre Optic Networks and other technological environments.

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 cost.

High Power Density Rate

More and more applications in modern telecommunications networks are based on small enclosures with an increasing need for reduced dimensions but with high data process intensity. Cabinet Cooler is the answer to the need of providing high refrigerating power in a small environment with up to 6 kW cooling capacity and a 600x300x1600 mm (WxDxH) frame.

High Reliability

Evaporator fan, damper and control are powered by 48VDC emergency power sources 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. The 48VDC supply increases the lifetime and reliability of the microprocessor and unit.

Ease And Flexibility Of Installation

A full range of air delivery directions is available: downflow, frontal, combined frontal and lateral, which makes the unit suitable for several applications and positioning in containers and cabinets. It can be mounted on slides, in the rack, on the door and along the side wall.

Dedicated Accessories

Mount the especially designed grille to optimise condensing airflow in the direct expansion mode. This prevents short circuit in the free-cooling mode and any water intrusion.



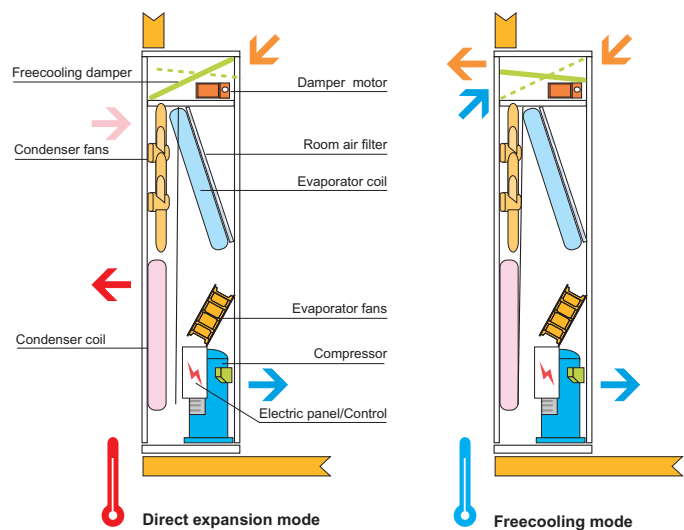
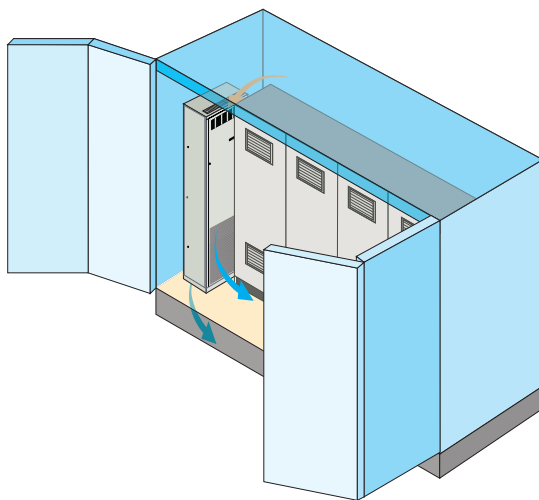
General Features

Model Cabinet Cooler CC		03	05	06
Air supply		Frontal Downflow / Underflow / Side		
Main power supply		230V/1Ph+N+PE/50HZ		
Emergency power supply (standard)		48V DC		
Performances				
Total cooling capacity ⁽¹⁾	kW	3,86	4,86	5,74
Sensible cooling capacity ⁽¹⁾	kW	3,32	4,86	5,29
Compressor AC power input ⁽¹⁾	kW	1,32	1,88	2,63
Condenser fan AC power input ⁽¹⁾	kW	0,25	0,25	0,25
Evaporator fan DC power input ⁽¹⁾	kW	0,053	0,185	0,185
Evaporator airflow	m ³ /h	820	1.450	1.450
Condenser max.airflow	m ³ /h	1.600	1.600	1.600
Freecooling max.airflow	m ³ /h	700	1.270	1.270
Outdoor sound pressure level ⁽²⁾	dB(A)	62	64	66
Indoor sound pressure level ⁽²⁾	dB(A)	63,5	65,8	66,7
Max.ambient temperature ⁽³⁾	°C	45	45	41
Refrigeration Circuit				
Compressor type / Quantity		scroll / 1		
Refrigerant		R407C		
Expansion device		thermostatic valve		
Evaporator Fan				
Quantity / type / poles DC version		2/plug/-		
Driven		direct		
Condenser Fan				
Quantity / type / pole		2/plug/4		
Driven / motor protection		direct / IP44		
Control system		variable speed		
Filter type / efficiency (CEN-EU)		G3		
Electric heating (opt)	kW	1,5		
Cabinet				
Frame		galvanized steel		
Painting		polyester - RAL7035		
Insulation type / thickness	-/mm	polyurethane class A1 / 10		
Width	mm	600		
Depth	mm	300		
Height	mm	1.600		
Weight	kg	122	124	125

(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



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High Performance Air Conditioning

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Uninterruptible Power Supply

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