

LIEBERT® HPM-S

from 4 kW to 25 kW



The Liebert® HPM-S direct expansion cooling unit is equipped with the most advanced industry technology, guaranteeing precise cooling of data centers and server rooms. It comes complete with R410A refrigerant which allows the unit to reach significant levels of efficiency. Liebert® HPM-S incorporates Vertiv's breadth of cooling expertise in a unique range of cabinet air coolers designed to ensure performance and reliability. The Liebert® HPM-S range comes complete with EC Fans as standard, thus ensuring top energy efficiency. The complete unit design has furthermore been optimized with enhanced heat exchangers, delivering a high level of overall efficiency and cooling capacity.

Key Features



Designed for R410A Refrigerant



Precision cooling floor mount products comply with the European ErP 2015 Directive requirements, respecting environmental commitments, while reducing operating costs



Continuous monitoring of heat load ensures that only necessary kilowatts are invested in targeted cooling, thus conserving energy



EC Fans for optimized airflow distribution



First class energy efficiency achieved through the combination of market leading technologies



Vertiv supports customers with an extensive service offering, guaranteeing availability and total peace of mind 24/7

Customer Experience Center - Floor-Mount Validation Area

Vertiv's Customer Experience Center located in Tognana (Padova- Italy), gives our customers the unique opportunity to witness pre-installation demonstrations, covering technical performance, interoperability and efficiency of our solutions under a broad range of real field conditions. Our Customer Experience Center features a dedicated area to test our highly efficient floor-mount units, including our Liebert® HPM-S solution. Equipped with a highly automated testing chamber, this validation area can balance a thermal load of up to 200 kW and can simulate a test environment within a temperature range of 0°C to 60°C. Customers visiting the center may also benefit from a comprehensive consultation from our R&D, engineering and application specialists. The Customer Experience Center provides customers, consultants and data center

specialists with the most complete testing area to experience the capabilities of our technologies at peak conditions. All our measuring tools are periodically tested to adhere to current international quality procedures. Every customer visit is accompanied by a complete final report which includes each and every tested parameter as well as the relevant outputs for the specific Thermal Management unit validated.



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Technical Specifications

Liebert® HPM-S

Model		S0F	S0H	S1A	S1D	S1E	S1G	S2E	S2G
Condenser		HCR10	HCR14	HCR17	HCR24	HCR24	HCR24	HCR43	HCR43
Total gross cooling capacity	kW	5.6	7.2	10.6	13.0	15.6	17.4	23.1	25.0
Net sensible cooling capacity	kW	5.1	7.0	9.8	10.9	13.8	15.6	19.9	21.5
Sensible Heat Ratio (SHR)		0.93	1.00	0.94	0.86	0.93	0.95	0.90	0.92
Net sensible EER		2.6	3.0	3.1	2.9	3.3	3.1	3.1	3.0
Airflow	m³/h	1.560	2.500	2.680	2.750	4.200	4.930	5.200	5.750
Max. ESP	Pa	300	240	190	140	400	380	280	190
Sound pressure level	dB(A)	56,2	50,8	52,9	53,3	48.8	49.4	52.7	50.0
Internal Unit Dimensions (W x D)	mm	750 x 400	750 x 500	750 x 500	750 x 500	750 x 750	750 x 750	750 x 750	750 x 750
External Unit Dimensions (W x D)	mm	701x 599	1050 x 891	1050 x 891	1112 x 1340				
Weight of the Internal Unit	kg	170	195	210	215	240	250	260	270
Weight of the External Unit	kg	16	44	44	75	75	75	92	92
Airflow of the Delivery (downflow, upflow, displacement/frontal)		D, U, F*	D, U, F*	D, U, F*	D, U, F*	D, U, F*	D, U, F*	D, U, F*	D, U, F*

Note:

Performance at 24°C 50%

Nominal ESP 20 Pa

External Temperature 35°C

System able to work at up to 40°C external temperature.

Internal Unit Height 1950 mm; External Unit Height 907 mm

D: downflow U: upflow F: frontal