VERTIV.™

Liebert®

HPM Plus
from 32 to 102 kW

The Direct Expansion Unit
Maximizing Cooling Capacity

Direct Expansion Floor Mount Units Maximum Cooling Capacity and Minimized TCO

Liebert® HPM Plus direct expansion cooling unit is equipped with the most advanced industry technology, guaranteeing precise cooling of data centers and server rooms. The units come complete with R410A refrigerant and include new generation EC Fans. The cost-effective unit design has been optimized with enhanced heat exchangers, delivering high levels of overall cooling capacity.

Liebert HPM Plus
Upflow Air Discharge Version

Liebert HPM Plus
Downflow Up Air Discharge Version

DIRECT EXPANSION TECHNOLOGY

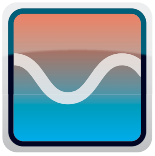
Liebert® HPM Plus Features

Precise Temperature Control

Close monitoring and control of room temperature extend server lifetime.

EC Fans

The new generation of EC Fans are the core element of the direct expansion units, significantly minimizing noise levels and increasing the unit's efficiency.



Heat Load Monitoring

Continuous heat monitoring minimizes energy consumption.

Vertiv™ ICOM™ Control: When Smart Means Efficient

Smart mode is a control algorithm developed for containment applications, meeting cooling and airflow needs of the servers while ensuring that only necessary Watts are invested in targeted cooling.

European ErP Directive

Liebert HPM Plus units comply with the latest European ErP Directive requirements, respecting environmental commitments while reducing operating costs.

Highest Availability

First-class availability achieved through the development of market leading technologies.

Liebert® HPM Plus - Scroll

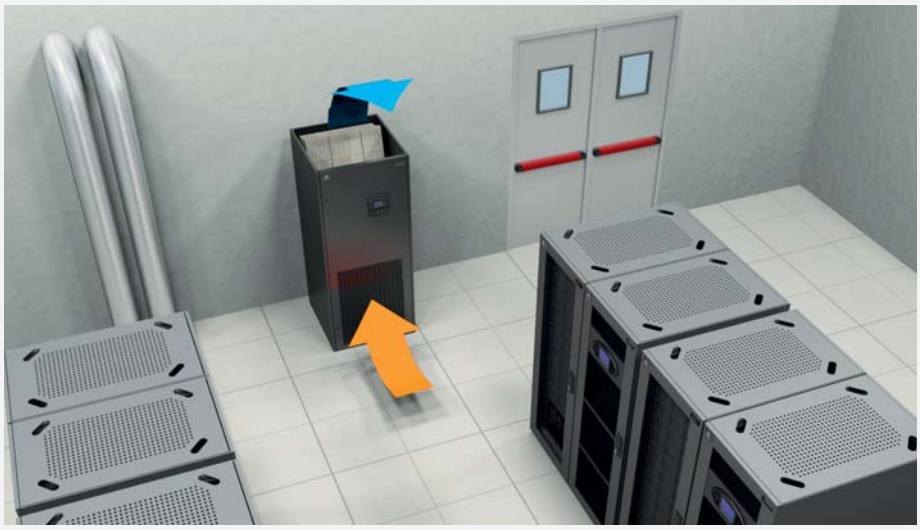
SINGLE CIRCUIT					
Model		**MS03C**	**MS04A**	**MS04E**	**MS05A**
Total Gross Cooling Capacity	kW	13.9	19.1	25.0	30.1
SHR		0.83	0.92	0.90	0.91
EER		3.55	3.83	3.72	3.76
Airflow	m³/h	6819	9728	10350	12100
Maximum ESP (@ Nominal Airflow)	Pa	22	81	92	144
Dimensions (W x D)	mm	844 x 890	1200 x 890	1200 x 890	1750 x 890
Height (H)	mm	1970	1970	1970	1970
Weight	kg	340	452	456	637
Number of Capacity Steps		1	1	1	1
Aiflow Delivery					
Down Flow UP - Fans Over the Raised Floor			■		
Up Flow			■		
Frontal			■		
Cooling Version:					
Air Cooled			■		

DOUBLE CIRCUITS								
Model		**MD04D**	**MD05D**	**MD06B**	**MD07D**	**LD08B**	**LD09D**	**LD10D**
Total Gross Cooling Capacity	kW	41.8	49.8	58.2	72.8	83.5	91.0	101.9
SHR		1.00	0.92	1.00	0.88	0.93	0.89	0.84
EER		3.68	3.91	3.32	3.58	3.90	3.87	3.73
Airflow	m³/h	12500	12544	17100	16460	21822	21822	21822
Maximum ESP (@ Nominal Airflow)	Pa	86	80	91	83	81	81	81
Dimensions (W x D)	mm	1750 x 890	1750 x 890	1750 x 890	1750 x 890	2550 x 890	2550 x 890	2550 x 890
Height (H)	mm	1970	1970	1970	1970	1970	2570	1970
Weight	kg	638	642	680	680	931	929	931
Number of Capacity Steps		2	2	2	2	2	2	2
Aiflow Delivery								
Down Flow UP - Fans Over the Raised Floor				■			■	
Up Flow				■			■	
Frontal				■				
Cooling Version:								
Air Cooled				■			■	

Performances at 24°C 50% - 45°C condensing temperature
Nominal ESP 20 Pa

Model Configurations

AIR DISCHARGE VERSION

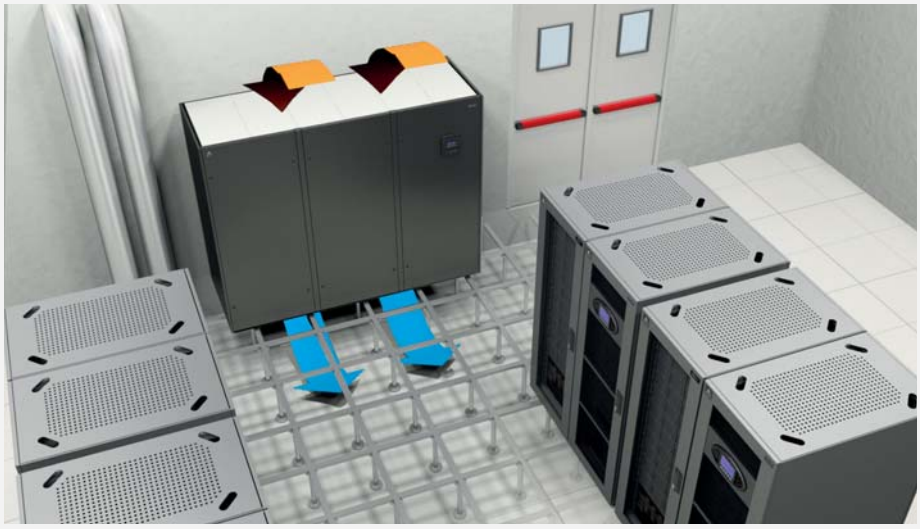


Upflow

Return air enters the unit from the bottom front, while supply air is discharged from the top.

Downflow Frontal

Return air enters the unit from the top, while supply air is discharged from the bottom front.



Downflow Up

Return air enters the unit from the top, while supply air is discharged from below, exiting beneath the floor.

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