Vertiv™ Liebert® PDX with Variable Speed Compressors

Air Cooled Direct Expansion
Perimeter Unit
from 15 to 165 kW

EUROVENT CERTIFIED PERFORMANCE
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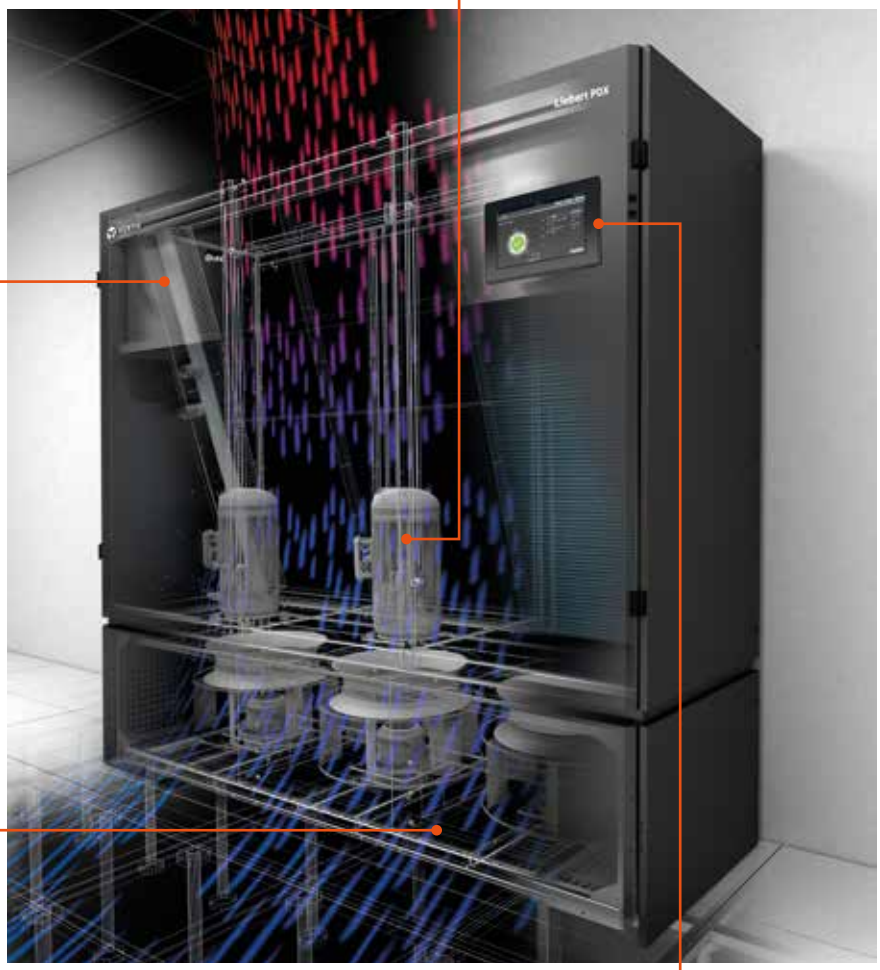

Cooling Continuity

Liebert® PDX guarantees enhanced availability and redundancy features; it can automatically manage power failures and restore quickly requested working conditions when power is back. Downtime is also minimized through the prevention of alarms and failures and real-time optimization and adaptation of working parameters.

Energy Efficiency

Liebert® PDX, thanks to variable speed drive compressors, increases full and part load efficiency, reduces starting current and improves power factor; as a result, power consumption and energy bills are considerably lowered. Liebert PDX cooling density has been maximized, allowing for reduced footprint and leaving more space for customers to install their IT equipment.

Flexibility

Liebert® PDX remains the product with the widest range of air configurations available in the market and a full set of options and accessories to adapt to any type of data center design.

Smart Liebert® iCOM™ Control

Liebert® iCOM™ control is the heart of the direct expansion cooling system, managing not only Liebert® PDX units but also outdoor heat rejection components (Liebert® MC or Liebert HCR condensers). Furthermore, it features a new 7" touch screen display for quicker and easier data readability.

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	Single circuit models		PI015	PI021	PI025	PI031	PI033	PI041	PI045	PI047	PI051	PI057	PI075	PI059
	Maximum net sensible cooling capacity (*)	kW	19,2	23,9	29,1	32,7	37,0	50,9	56,4	52,5	60,9	62,4	77,5	70,4
	Minimum net sensible cooling capacity (*)	kW	5,9	7,0	8,5	9,6	11,8	15,4	18,1	15,8	18,2	17,5	23,3	13,0
Compressor modulation 80% (*)	Nom. ESP	Pa	20	20	20	20	20	20	20	20	20	20	20	20
	Net Total Cooling Capacity	kW	15,8	19,8	24,5	27,8	31,9	43,2	49,3	43,7	51,1	52,0	65,4	60,6
	Net Sensible Cooling Capacity	kW	15,8	19,8	24,5	27,8	31,9	43,2	49,3	43,7	51,1	52,0	65,4	60,6
	nSHR		1	1	1	1	1	1	1	1	1	1	1	1
	Unit Net Sensible EER		4,63	4,49	4,11	3,54	3,36	3,91	3,66	4,02	3,86	4,17	3,71	3,53
	Airflow	m^3/h	4049	5040	6217	7126	8163	11080	12608	11199	13104	13273	16745	13191
Compressor modulation 40% (*)	Net Total Cooling Capacity	kW	8,3	10,5	13,4	15,3	18,2	23,8	27,8	23,7	28,1	27,8	36,2	35,4
	Net Sensible Cooling Capacity	kW	8,3	10,5	13,4	15,3	18,2	23,8	27,8	23,7	28,1	27,8	36,2	35,4
	nSHR		1	1	1	1	1	1	1	1	1	1	1	1
	Unit Net Sensible EER		5,46	5,20	5,17	4,77	4,76	5,25	5,05	4,95	4,92	5,25	4,99	4,64
	Airflow	m^3/h	2112	2669	3372	3911	4665	6086	7099	6047	7166	7118	9222	9045
	Dimensions (W x D)	mm			840x890			1200x890			1750x890			1200x890
	Height (H)	mm						1970						2570
	Weight	kg	315	316	336	358	358	471	472	640	641	688	754	584
	Aiflow Delivery													
	Down Flow UP - Fans Over the Raised Floor				•					•				•
	Down Flow UP - Frontal air delivery				•					•				•
	Down Flow UP - Back air Delivery													•
	Down Flow Down - Fans in the Raised Floor									•				•
	Up Flow				•					•				•

* Performance at RAT 30°C / RH 35% - Condensing temperature 45°C - Downflow up air configuration. CE units - Power supply 400V/3ph/50Hz - High Power EC Fans - Refrigerant R410A

	Double circuit models		PI044	PI054	PI062	PI074	PI068	PI082	PI094	PI104	PI120	PI092	PI150	PI165
	Maximum net sensible cooling capacity (*)	kW	56,0	62,0	73,1	82,9	78,5	97,4	105,1	112,8	136,2	94,3	169,3	176,2
	Minimum net sensible cooling capacity (*)	kW	8,6	9,4	11,3	13,1	12,5	13,5	15,1	16,8	22,2	13,5	22,2	24,9
Compressor modulation 80% (*)	Nom. ESP	Pa	20	20	20	20	20	20	20	20	20	20	20	20
	Net Total Cooling Capacity	kW	45,2	51,1	60,4	70,5	64,8	79,2	87,1	95,4	119,8	80,7	146,4	153,7
	Net Sensible Cooling Capacity	kW	45,2	51,1	60,4	70,5	64,8	79,2	87,1	95,4	119,8	80,7	146,4	153,7
	nSHR		1	1	1	1	1	1	1	1	1	1	1	1
	Unit Net Sensible EER		4,42	4,32	3,99	3,66	4,71	4,15	4,04	3,91	3,35	3,69	3,65	3,51
	Airflow	m^3/h	11546	13093	15414	18134	16921	20667	22769	24854	31292	20603	38428	40076
Compressor modulation 40% (*)	Net Total Cooling Capacity	kW	21,8	23,8	28,6	32,8	31,2	45,2	49,5	55,1	69,8	36,3	83,3	90,1
	Net Sensible Cooling Capacity	kW	21,8	23,8	28,6	32,8	31,2	45,2	49,5	55,1	69,8	36,3	83,3	90,1
	nSHR		1	1	1	1	1	1	1	1	1	1	1	1
	Unit Net Sensible EER		4,14	4,20	4,03	3,94	4,53	5,10	5,10	5,04	4,66	4,21	4,99	4,83
	Airflow	m^3/h	5590	6113	7311	8490	8129	11686	12881	13984	18157	9239	21719	23299
	Dimensions (W x D)	mm	1750x890				2550x890					1750x890	3350x890	
	Height (H)	mm	1970									2570		
	Weight	kg	671	682	723	708	935	957	967	987	1006	811	1496	1544
	Aiflow Delivery													
	Down Flow UP - Fans Over the Raised Floor			•					•			•	•	
	Down Flow UP - Frontal air delivery			•								•	•	
	Down Flow UP - Back air Delivery											•	•	
	Down Flow Down - Fans in the Raised Floor			•					•			•	•	
	Up Flow			•					•			•		

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