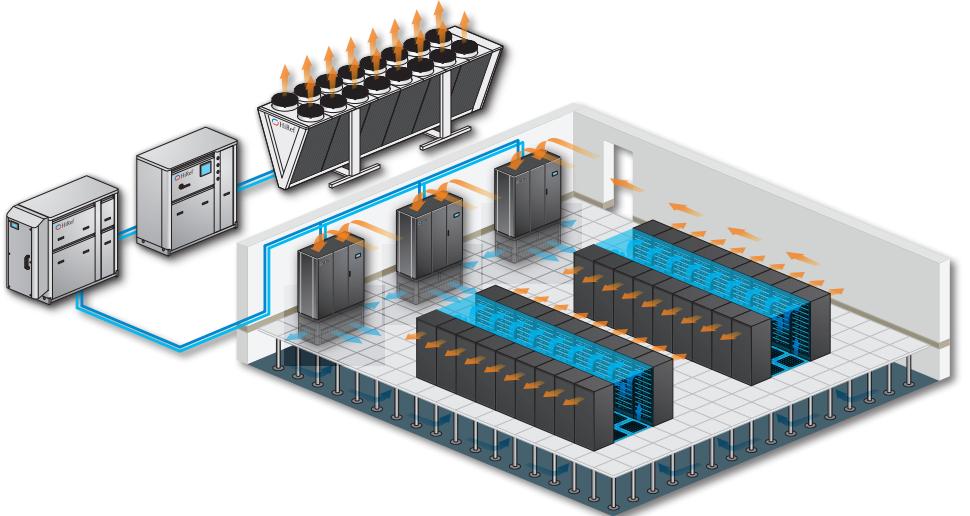


# FCDR

## CHILLED WATER CRAC UNITS WITH UNDERFLOOR FANS



Ambient Conditions: 34°C/30% r.h. - Tw = 16/22°C

FCDR	FCDR 0450	FCDR 0550	FCDR 0650	FCDR 0750	FCDR 1500	FCDR 1800	FCDR 2000	FCDR 2100	
Net cooling capacity - Max power	kW	66	71	68	133	177	195	230	259
SHR	-	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Airflow	m³/h	14000	14000	26500	26300	39400	39000	51900	51400
Fans' power input	kW	2,4	2,5	5,1	5,1	7,7	7,8	10,3	10,4
Fans' current absorption	A	3,9	3,9	8,1	8,2	12,3	12,4	16,5	16,7
EER	-	28	29	23	26	23	25	22	25
Net cooling capacity - Max efficiency	kW	31	33	52	56	77	82	96	106
SHR	-	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Airflow	m³/h	5900	6000	9900	10100	14600	14900	18500	19000
Fans' power input	kW	0,3	0,33	0,52	0,56	0,78	0,83	0,98	1,07
Fans' current absorption	A	0,5	0,53	0,84	0,89	1,25	1,33	1,57	1,71
EER	-	100	100	100	101	99	99	98	99
Dimensions (L x H x D)	mm	1280x1998x950	1280x1998x950	1760x1998x950	1760x1998x950	2500x1998x950	2500x1998x950	3160x1998x950	3160x1998x950
Min dimensions with base module (L x H x D)	mm	1280x2698x950	1280x2698x950	1760x2698x950	1760x2698x950	2500x2698x950	2500x2698x950	3160x2698x950	3160x2698x950

Available also for 60 Hz power supply

HF65G00005 rev.A



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30 - 260 kW



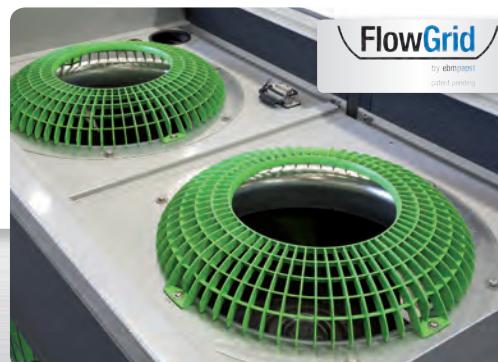
# FCDR

## CHILLED WATER CRAC UNITS WITH UNDERFLOOR FANS

- HIGHEST ENERGY EFFICIENCY: EER = 100**



- FLOWGRID BY EBM-PAPST:  
EFFICIENCY AND LOW-NOISE LEVELS**



- FCDR'S FANS TAKE OFF WITH  
“E-WING”**



- HIGH SPECIFIC CAPACITY**



- LOWEST PUE VALUES WITH THE  
“FREE-FAN” SOLUTION**

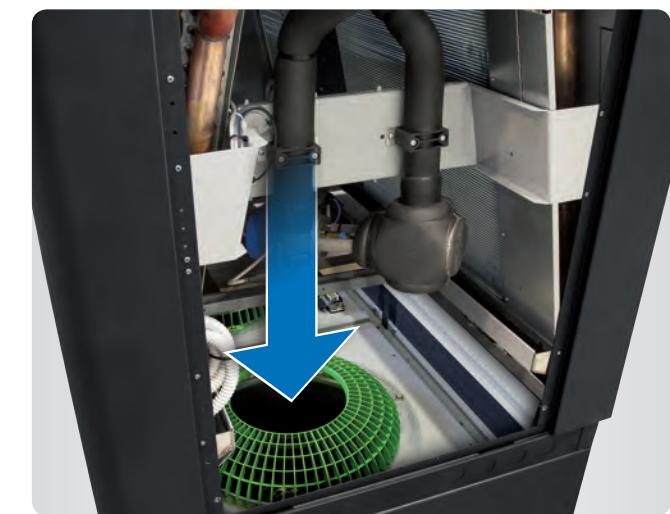


- » Backward curved blade fans with EC motors and plastic impeller EBM-PAPST Radical series
- » Fan speed modulation according to the cooling demand (constant  $\Delta T$ )
- » Fans are selected to maximize efficiency at low pressure conditions
- » Fan speed modulation according to the air-flow demand (constant  $\Delta p$ )
- » Double  $\Delta$ -shaped coil with large exchange surface
- » Quick electrical connections
- » Adjustable legs



**FCDRs** are the brand new range of chilled-water air conditioners for high density computer rooms. With a specific aerodynamic analysis each component is designed to reduce the air pressure drops, thus to minimize the energy consumption by the fans, the only power input in the unit.

- PAINSTAKING AERODYNAMICS**



The air flows through wider sections, as the base module containing the EC fans is installed in the false floor, the "E-Wing" profile separates the airflows out of each fan and the EC motors provide a high-efficient modulation of the airflow. All these features make the FCDR reach EER values of 100. The extremely technological solutions adopted for FCDR lead to very low values of PUE for Data Centers.