

DATA CENTER

INDUSTRIAL

JREF DX W/Z

Centrifugal



WATER CONDENSED PERIMETER MOUNTED UNITS FOR DATA CENTERS

JREF DX W > 7-24 kW

JREF DX Z > 7-28 kW



JREF W Centrifugal units are water-condensed perimeter-mounted cabinets, and they use Dry Cooler water. The JREF units of this series are “monobloc” units inside which **the entire cooling circuit is concentrated**. Cooling is via a **brazed-plate exchanger made of stainless steel AISI 304**. All W units can be paired with **Hiref Dry Coolers**.

JREF Z Centrifugal units are water-condensed perimeter-mounted cabinets, and they use low temperature mains water or groundwater (15°C). The JREF units of this series are “monobloc” units inside which **the entire cooling circuit is concentrated**. Cooling is via a **brazed plate exchanger made of stainless steel AISI 304**.

AIRFLOW CONFIGURATIONS



Upflow

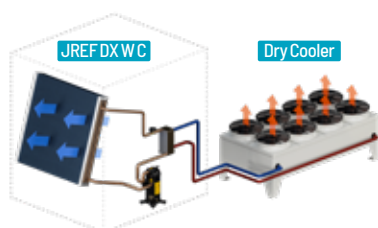


Downflow

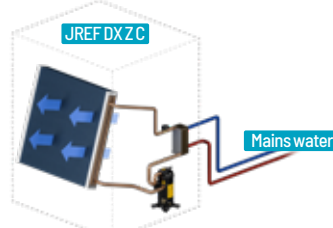


Displacement

WATER CONDENSED



MAINS WATER CONDENSED



- Refrigerant R410A
- Scroll on/off compressors
- Temperature control through heating and post-heating systems with electric heating elements (optional)
- Humidity control through dehumidification and humidification (optional)
- Low temperature kits for optimal operation in the case of installation in particularly cold environments (on request)
- Broad choice of accessories, including base modules and plenums for ducting
- Air filter class G3 as standard. Air Filters G4, M5, F7 (optional)
- Double power supply with automatic switch (optional)
- Electronic expansion valves (optional)



Efficiency

The performance, reliability and efficiency of HiRef units are guaranteed **by using the best quality components and by cleverly designed internal and external layouts.**



Safety in the server room

All models in the JREF W/Z Centrifugal range feature heat exchange coils with hydrophilic coating. This special coating - together with adequate adjustment of air through-flow speeds - **helps condensate collection during the dehumidification process, preventing any dripping on the inside and outside of the unit.**



Easier scheduled maintenance

The unit has been painstakingly designed to ensure frontal access to components even with the units running. This makes **routine maintenance easier in full compliance with safety standards.**

Green

HiRef is constantly striving to **find refrigerants with an ever decreasing environmental impact.** The use of ASHRAE class A1, non-toxic and non-flammable refrigerants is essential in close control applications.



JREF DX W C		0060	0080	0100	0110	0130	0160	0190	0205
R410A - Indoor air 24°C - 50% / Water 40°C - 45°C									
Cooling capacity	kW	6.7	8.1	11	12.1	14.9	16.3	19.8	21.8
Total absorbed power	kW	1.9	2.4	3.4	3.7	4.6	4.8	5.7	6.7
EER		3.91	3.92	3.82	3.81	3.66	3.91	3.9	3.63
SHR		0.97	0.97	0.99	0.97	0.9	0.98	0.94	0.89
R410A - Indoor air 30°C - 35% / Water 40°C - 45°C									
Cooling capacity	kW	7.4	9	12.3	13.6	16.3	18.4	22	23.7
Total absorbed power	kW	2	2.3	3.4	3.7	4.6	4.8	5.7	6.7
EER		4.25	4.38	4.32	4.33	4	4.42	4.33	3.95
SHR		1	1	1	1	1	1	1	1
Rated air flow	m³/h	1785	2150	3690	3530	3470	5115	4990	
Power supply	V/ph/Hz	400/3+N/50							
Lp @ nominal rpm; dist.=2m Q=2	db(A)	46	48	48	49	51	52	53	53
Dimensions [LxHxD]	mm	600x1875x449			900x1875x449			1200x1875x449	

Performance data relating to Downflow versions with R410A refrigerant. | Also available with 60 Hz power supply. | Model height Displacement 2125 mm.

JREF DX Z C		0060	0080	0100	0110	0130	0160	0190	0205
R410A - Indoor air 24°C - 50% / Water 15°C - 30°C									
Cooling capacity	kW	7.4	9.3	12.4	14	17.1	19.5	23.7	25.8
Total absorbed power	kW	1.4	1.7	2.6	3	3.5	3.7	4.4	5
EER		6.29	6.5	6.02	5.84	5.78	6.35	6.39	5.9
SHR		0.89	0.88	0.92	0.89	0.84	0.88	0.86	0.82
R410A - Indoor air 30°C - 35% / Water 15°C - 30°C									
Cooling capacity	kW	8	10.1	13.5	15.5	18.3	21.4	25.5	27.7
Total absorbed power	kW	1.4	1.7	2.6	2.9	3.5	3.7	4.4	5
EER		6.81	7.07	6.59	6.51	6.2	6.94	6.88	6.32
SHR		1	1	1	1	1	1	1	0.99
Rated air flow	m³/h	1785	2150	3690	3530	3470	5115	4990	
Power supply	V/ph/Hz	400/3+N/50							
Lp @ nominal rpm; dist.=2m Q=2	db(A)	46	48	48	49	51	52	53	53
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