

JREF DX A

Centrifugal

AIR CONDENSED PERIMETER MOUNTED UNITS FOR DATA CENTERS

7-24 kW



The JREF DX Centrifugal units are direct expansion units with centrifugal AC fans designed to be installed in small-sized premises such as server rooms and labs or for applications where **accurate control of thermo-hygrometric parameters and round-the-clock operation are required**. The internal design and the choice of components are primarily aimed at **ensuring a compact design to make unit installation as flexible as possible**. Versatile and flexible range

JREF DX A Centrifugal units are air-condensed perimeter-mounted units in the JREF range; they are widely used for the cooling of Data Centers. The air-condensed solution offers **simple system design**, thanks to the absence of auxiliary circuits and pumps; the cooling circuit is managed by the cabinet, and both the indoor unit and the remote condenser are **easy to install**.

- Refrigerant R410A
- Scroll on/off compressors
- Temperature control through heating and post-heating systems with electric heating elements, hot water and hot gas (optional)
- Humidity control through dehumidification and humidification (optional)
- 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)
- Low temperature kits for optimal operation in the case of installation in particularly cold environments (on request)
- Long distance kits for optimal operation in the event of large distances between indoor and outdoor units (on request)



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**.



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 DX A 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.**

Green

HiRef is constantly committed to the search for refrigerants that have an increasingly reduced environmental impact. The use of ASHRAE Class A1 refrigerants, non-toxic and non-flammable, is essential for the "close control" application. All JREF DX A Centrifugal units are available with R134a and R513A refrigerants.

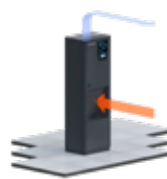


Remote condensers

All units can be combined with HiRef remote condensers, choosing from **different combinations to meet all system needs. Oversize remote condensers** are ideal for warmer environments, where it is necessary to keep the condensing temperature under control, while **the compact condensers** on the other hand are small in terms of both size and consumption. The condensers, used with dual-circuit units, are available with a single cooling circuit for **maximum reliability and redundancy of the system** or with a double cooling circuit, **to reduce installation spaces and costs.**



AIRFLOW CONFIGURATIONS



Upflow



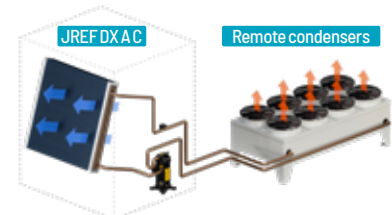
Downflow



Displacement



AIR CONDENSED



JREF DX A C		0060	0080	0100	0110	0130	0160	0190	0205
R410A - Indoor air 24°C - 50% / Outdoor air 35°C									
Cooling capacity	kW	6.5	8.6	11.2	12.3	14.6	16.2	19.7	22.6
Total absorbed power	kW	2.1	2.1	3.3	3.6	4.7	5	5.8	6.2
EER		3.52	4.79	4.06	4.01	3.53	3.71	3.82	4.12
SHR		0.99	0.94	0.99	0.95	0.9	0.98	0.94	0.87
R410A - Indoor air 30°C - 35% / Outdoor air 35°C									
Cooling capacity	kW	7.1	9.4	12.4	13.7	16	18.3	21.9	24.4
Total absorbed power	kW	2.2	2.1	3.4	3.7	4.8	5.2	6	6.2
EER		3.7	5.19	4.43	4.39	3.79	4.08	4.12	4.39
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 [L xHxD]	mm	600x1875x449			900x1875x449			1200x1875x449	

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