

DATA CENTER

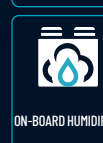
INDUSTRIAL

JREF CW

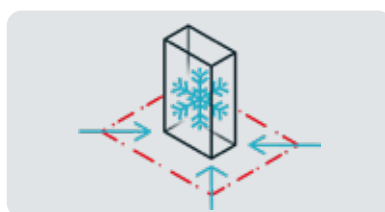
Centrifugal

CHILLED WATER
PERIMETER MOUNTED UNITS
FOR DATA CENTERS

7-24 kW



The JREF CW Centrifugal series perimeter mounted units are chilled water units with AC centrifugal fans for 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 easy as possible**.



High power density

The reduced footprint and high efficiency offer **higher cooling capacity**. In this way the **space dedicated to the units in the Data Center is minimized, making the most of available spaces**.

Double circuit

Chilled water units are also available with a double circuit. In this version the supply is **via two different hydraulic circuits** that can offer the **utmost operational continuity if one of the two circuits malfunctions**. Each circuit is equipped with a regulating valve

- Temperature control through heating and post-heating systems using electric heating elements, additional hot water coil, or both (optional)

- Humidity control through dehumidification and humidification (optional)

- Fan speed modulation based on thermal load (constant ΔT)

- 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)

- Instant reading of water flow rate, water inlet and outlet temperatures, or supplied cooling capacity (optional)





Easier scheduled maintenance

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



Finned pack coil with hydrophilic coating

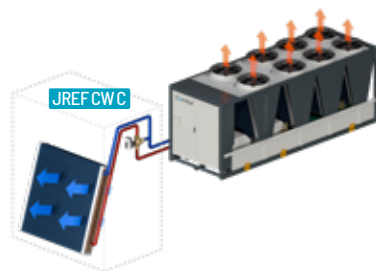
All models in the JREF CW Centrifugal range feature heat exchange coils with hydrophilic coating. This special coating - together with adequate adjustment of air through-flow speeds - **helps condensate collection and outflow during the dehumidification process, preventing any dripping on the inside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



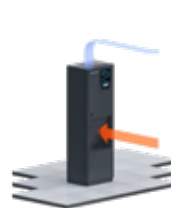
Accurate regulation with multiple types of valves

All units in the JREF CW Centrifugal range have as standard regulating valves fitted with 0-10V servo motor, selectable in 2-way execution, with variable or 3-way flow system or with servo motor with spring return. Pressure-independent valves can also be fitted on request. All these types of valves ensure **the utmost adjustment accuracy while maintaining the system's hydronic balance.**

CHILLED WATER



AIRFLOW CONFIGURATIONS



Upflow



Downflow



Displacement

JREF CW C		0080	0110	0140	0160	0200	0230
Air temperature 30°C - 35% / Water temperature In 10°C Out 15°C							
Cooling capacity	kW	8.8	10.7	15.3	17	21.8	23.7
EER		40	38.09	27.34	30.44	32.53	35.35
SHR		0.94	1	1	1	1	1
Air temperature 35°C - 30% / Water temperature In 15°C Out 20°C							
Cooling capacity	kW	8.9	10.7	15.4	17.1	22	23.8
EER		40.25	38.24	27.53	30.56	32.77	35.49
SHR		0.94	1	1	1	1	1
Rated air flow	m³/h	1785	2150	3530	3470	5115	4990
Total fan absorbed power	kW	0.2	0.3	0.6		0.7	
Power supply	V/ph/Hz	400/3+N/50					
Lp @ nominal rpm; dist.=2m Q=2	db(A)	48	50	51	51	52	52
Dimensions [LxHxD]	mm	600x1875x449		900x1875x449		1200x1875x449	

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

