FRAL

RIGHT HUMIDITY ON DEMAND

PROFESSIONAL PORTABLE DEHUMIDIFIERS

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FDC SERIES

The Fral portable professional dehumidifiers of the series FDC are high-performance appliances, equipped with robust galvanized steel frame and frontal plastic cover painted with epoxy resins and mounted on 4 swivel casters that make it easy to move.
They have a high efficiency air filter in polyurethane, washable and easily replaceable, and a very large condensate collection tank with the possibility of direct drain.

The main characteristic of all the Fral portable professional models of the series FDC is the evaporation coil, that consists of smooth tubes in aluminium. This unique arrangement derived from professional dehumidifiers allows a lower power consumption of the appliance, with a very high efficiency even at low relative humidity. All models include the defrost timer and Hot Gas defrost (except for FDC26).

FEATURES

FRAME
The frame and the sheets are hot galvanised, epoxy powder coated, ensuring high strength and durability.

COMPRESSOR
Rotative compressor, mounted on vibration dampers.

REFRIGERANT CIRCUIT
Evaporator: the evaporation coil consists of smooth tubes in aluminium. The smooth tubes ensure a high yield of the dehumidifier, significantly reducing energy consumption, even at low relative humidity.
Condenser: the coil is made of copper pipes and aluminium fins, the wide size of the condenser fins ensures resistance to dust, long life and easy maintenance of the machine.

CONDENSATE COLLECTION TANK
The condensate collection tank, installed as standard, is very large and can be easily removed. The machine is also ready for connection to a fixed condensate drain.

FAN
Axial fan, statically and dynamically balanced, long-lasting and durable.

AIR FILTER
The air filter, supplied as standard with the unit, is washable and easily replaceable. High-efficiency filter.

MICROPROCESSOR
Controls the defrosting cycles with hot gas, the timer of the compressor and the alarm card.

CONTROL PANEL
Located at the top of the machine.
Executed according to the European standards in force.

TESTING
Tests are performed to check the tightness of the refrigeration circuit. Electrical discharge tests and functional tests are performed as well.

TECHNICAL STANDARDS
This dehumidifier meets the essential requirements included in the Directives of the European Community 2014/35/EU of 26 February 2014 on the safety of electrical products for use in Low Voltage; 2014/30/EU of 26 February 2014 in the field of electromagnetic compatibility.
The conformity is declared with reference to the following harmonized technical standards:
EN 60335-1,EN 60335-2-40, EN 55014-1, EN 55014-2, IEC63000
Other applied technical standards and specifications: EN 378-2, IEC 60335-2-40:2018 with R1234yf refrigerant.
We also declare that the product is manufactured in compliance with the RoHS Directive in force, that is 2011/65/EU.

TECHNICAL SPECIFICATIONS

	FDC26	FDC32	FDC32S
Rated average power consumption (27 ºC - 60% R.H.)	300 W	420 W	420 W
Maximum power consumption (35 ºC - 70% R.H.)	410 W	540 W	540 W
Maximum current consumption (35 ºC - 70% R.H.)	2 A	2.6 A	2.6 A
L.R.A.	13 A	5,2 A	5,2 A
Air flow	**300 mc/h**	**380 mc/h**	**380 mc/h**
Sound pressure level (3 meters in open field)	41db (A)	43 db (A)	43 db (A)
Refrigerant	R1234yf	R1234yf	R1234yf
Capacity of the condensate water tank	5,5 kg	5,5 kg	5,5 kg
Fitting on the machine for condensate drain	16 mm	16 mm	16 mm
Operational range (temperatures)	7÷35 °C	7÷35 °C	1÷35 °C
Operating range (relative humidity) T < 30 °C	35÷98%	35÷98%	35÷98%
Operating range (relative humidity) T 30÷32 °C	35÷90%	35÷90%	35÷90%
Operating range (relative humidity) T 32÷35 °C	35÷70%	35÷70%	35÷70%

ACCESSORIES

■ STANDARD □ OPTIONAL ☒ NOT AVAILABLE

Hot gas defrost	☒	☒	■
Hour counter Mechanical	☒	☒	☒
humidistat Condensate	■	■	■
Lifting pump	☒	☒	☒

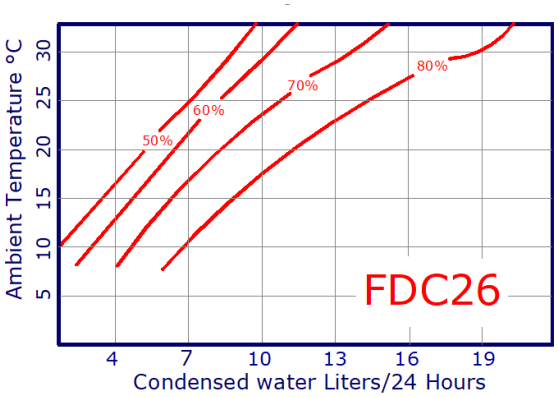
DIMENSIONS AND WEIGHTS

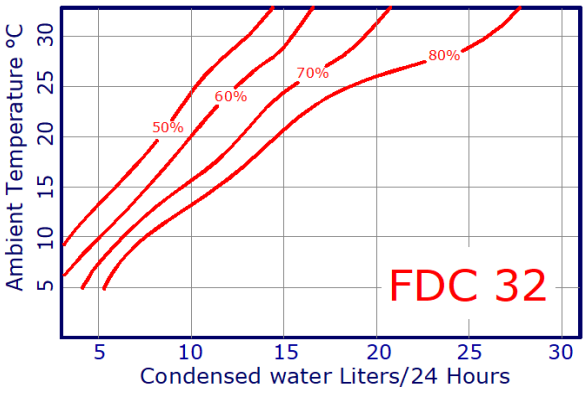
Width	330 mm	330 mm	330 mm
Height	660 mm	660 mm	660 mm
Depth	320 mm	320 mm	320 mm
Weight	23.5 kg	23.5 kg	23.5 kg

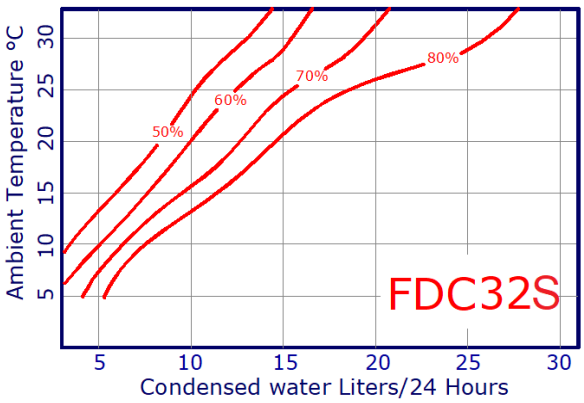
DIMENSIONS AND WEIGHTS WITH PACKING

Width	430 mm	430 mm	430 mm
Height	780 mm	780 mm	780 mm
Depth	370 mm	370 mm	370 mm
Weight	24.5 kg	24.5 kg	24.5 kg

CONDENSED WATER AT DIFFERENT AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS (lt/24h)







	10 °C 60%	10 °C 80%	15 °C 60%	15 °C 80%	20 °C 60%	20 °C 80%	25 °C 60%	25 °C 80%	27 °C 65%	27 °C 80%	30 °C 80%	32 °C 90%
FDC26	3	7	5	9	7	12.5	8	14	10	16	19	26
FDC32	5	8	8	12	10	15	13	18	15	23	26	32
FDC32S	5	8	8	12	10	15	13	18	15	23	26	32