



DEHUMIDIFIERS FOR SWIMMING POOLS

FSW 140

The Fral FSW series fixed dehumidifiers are high-performance appliances, usable in a variety of applications. They are particularly suited to dehumidify swimming pool environments, since they are resistant to corrosion due to chlorine. They feature a high efficiency air filter in polyurethane, washable and easily replaceable, and the possibility of direct drain.

The Fral fixed dehumidifiers series FSW can be equipped with electrical resistances. Their elegant design makes them particularly suitable for installation in special environments such as libraries and offices.

FEATURES

FRAME

Structure and external panels in anodized aluminium profiles, internal sheets in stainless steel.

COMPRESSOR

Rotative compressor.

The compressor features:

1. High efficiency for saving in energy consumption.
2. Low noise level, quiet operation.
3. Use of the HFC refrigerant for the protection of the environment.
4. High reliability, long life.

REFRIGERANT CIRCUIT

The refrigerant gas used in these units is R410a. The refrigeration circuit is realized in conformity with ISO 97/23 concerning welding procedures and PED regulations.

The refrigerant circuit includes:

- drying filter.
- Schreder valve for maintenance and control.
- capillary tube expansion.
- compressor.
- condenser and evaporator made in copper tubing with aluminium fins

CONDENSATE COLLECTION TANK

Stainless steel tank; condensate drain tube fitting: ¾" Female.

FAN

Centrifugal fan.

AIR FILTER

Made in synthetic material, the air filter is washable and easily replaceable.

MICROPROCESSOR

The microprocessor controls all the functions of the machine, such as: general operation, automatic defrost system, alarms.

CONTROL PANEL

Controls the defrosting cycles, the compressor timer and the alarm card. The dehumidifier is equipped with step sequence control.

The electric panel features the following components:

1. Remote control terminals;
2. Electronic card;

The installation must comply with the safety rules and laws in force. Provide a main disconnector, if necessary.

TESTING

Tests are performed to check the tightness of the refrigeration circuit. Electrical discharge tests and functional tests are performed according to European rules CE

TECHNICAL STANDARDS

This dehumidifier meets the essential requirements included in the Directives of the European Community 2006/95/EC of 12 December 2006 on the safety of electrical products for use in Low Voltage; 2004/108/EC of 15 December 2004 in the field of electromagnetic compatibility; 2006/42/EC of 17 May 2006 in the fields of machinery safety.

The conformity is declared with reference to the following harmonized technical standards:

CEI-EN 60335-2-40, CEI-EN 55014-1, CEI-EN 55014-2.

We also declare that the product is manufactured in compliance with the RoHS Directive in force, that is 2002/95/EC, transposed with the Legislative Decree of 25 July 2005 no. 151 (article 5).

TECHNICAL SPECIFICATIONS

FSW140

Rated Average Power Consumption (27 °C - 65% R.H.)	1350 W
Max Power Consumption (35 °C - 70% U.R.)	1650 W
Max. Current Consumption (35°C - 70% R.H.) F.L.A.	8 A
Start up current L.R.A.	33 A
Rated air flow	900 mc/h
Sound Pressure Level (at 3 mts in free field)	49 db(A)
Refrigerant	R407c
Fitting on the machine for condensate drain	3/4"
IP	IPX2
Operational range (temperatures)	7÷35 °C
Operating range (relative humidity) T < 30 °C	40÷99%
Operating range (relative humidity) T 30÷32 °C	40÷90%
Operating range (relative humidity) T 32÷35 °C	40÷70%
Available voltage and frequency	230/1/50

ACCESSORIES

■ STANDARD

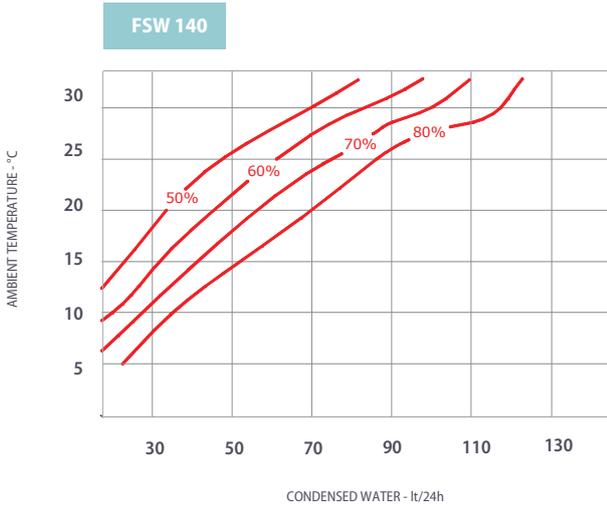
□ OPTIONAL

Remote electronic control humidity (up to two meters)		<input type="checkbox"/>
Condensate lifting pump		<input type="checkbox"/>

DIMENSIONS AND WEIGHTS

Width	1210 mm
Height	680 mm
Depth	350 mm
Weight	80 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%	26.7 °C 60%	27 °C 80%	30 °C 80%	32 °C 90%
FSW 140	20	35	30	50	43	70	60	80	75	90	115	140