



# HIGH EFFICIENCY LOW HUMIDITY

# INDUSTRIAL DEHUMIDIFIERS

## SERIE FSDV

A series of professional products for drying. They are able to work with accuracy from 10° to 40 °, with relative humidity up to 20%. The temperature control is adjustable.

## FEATURES

### FRAME

Structure with aluminium profiles and panels in sturdy galvanised sheet, painted with epoxy powder ensuring high resistance to atmospheric agents and aggressive environments.  
The panels are sandwich and removable to allow a quick inspection and maintenance of the internal parts.

### COMPRESSOR

Compressor scroll mounted on vibration dampers. Provided with resistance on the housing and thermal safety.

### REFRIGERANT CIRCUIT

**Evaporator and condenser:** the coil is made of copper pipes and aluminium fins. Drying filter, Shrader valves, minimum and maximum pressure switch. Defrosting thermostat and solenoid valve in version S.

### CENTRIFUGAL FAN

Centrifugal double suction fan, built with sturdy blades in galvanized sheet, statically and dynamically balanced.  
Two-speed fan.

### MICROPROCESSOR

Controls the defrosting cycles, the compressor timer and the alarm card. The dehumidifier is equipped with step sequence control and electronic control 0-10 V (optional) or on/off of the outside unit.

### AIR FILTER

The air filter G4, supplied as standard with the unit, is washable and easily replaceable. It is in Polyurethane and High-efficiency filter.

### 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 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

	FSDV3000	FSDV6000	FSDV8000
Rated Average Power Consumption (1)	4,0 kW	6,0 kW	8,2 kW
Maximum power consumption (2)	5,0 kW	8,3 kW	10,5 kW
Maximum power consumption with Electric resistance	9 kW	15 kW	24 kW
Max. Current Consumption F.L.A. (3)	18 A	25 A	25 A
Start up current L.R.A.	18 A	18 A	20 A
Nominal Air flow	2300 mc/h	6300 mc/h	6800 mc/h
Static pressure	200 Pa	200 Pa	200 Pa
Sound Pressure Level (at 3 mts in free field)	68 db(A)	62 db(A)	72 db(A)
Refrigerant	R407C	R407c	R407c
Fitting on the machine for condensate drain	¾"	¾"	¾"
Operating range (temperatures)	15-38°C	15-38°C	15-38°C
Operating range (relative humidity)	20-70%	20-70%	20-70%
Power supply	400/3+ N/50	400/3+ N/50	400/3+ N/50

(1) Prestazioni riferite a queste condizioni di temperatura ambiente 30°C; umidità relativa 40% ;  
 (2) Prestazioni riferite a queste condizioni di temperatura ambiente 35°C; umidità relativa 60%;  
 (3) Prestazioni riferite a queste condizioni di temperatura ambiente 35°C; umidità relativa 95%.

## ACCESSORIES

Digital dehumidostat and thermostat	0	0	0
Version with modulating control 0-10 V fan motor	0	0	0
Condensate lifting pump	●	0	0
Inverter centrifugal fan	●	●	●
Electric resistances	●	●	●

0 STANDARD ● OPTIONAL X NON DISPONIBILE

## OPTIONAL ACCESSORIES

### ELECTRIC RESISTANCE (optional)

The post heating electric resistances are operated by a relay connected to the thermostat. The post heating function can also be operated in the absence of a request on the part of the dehumidostat.

### HOT WATER COIL (optional)

Post-heating coil, which can be connected through a three-way valve to a hot water circuit. The valve is operated by a relay connected to the thermostat. The heating function can also be operated in the absence of a request on the part of the humidistat.

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

	27 °C 22 %	27 °C 25 %	25 °C 30 %	25 °C 50 %	25 °C 60 %	30 °C 40 %	30 °C 50 %	30 °C 60 %	35 °C 30 %	35 °C 40 %	35 °C 50 %	35 °C 60 %
<b>FSDV3000</b>	30	50	80	145	185	155	190	230	140	180	240	260
<b>FSDV6000</b>	63	115	162	260	340	280	350	420	250	330	440	480
<b>FSDV8000</b>	84	150	215	340	450	370	460	550	330	440	580	640

## AIR FLOW AT DIFFERENT STATIC PRESSURES (mc/h)

	50 Pa	75 Pa	100 Pa	125 Pa	150 Pa	175 Pa	200 Pa
<b>FSDV3000</b>	3200	3000	2800	2500	2400	2300	2200
<b>FSDV6000</b>	6400	6300	6200	6100	6000	5900	5800
<b>FSDV8000</b>	8600	8400	8300	8200	8000	7900	7800

## WEIGHT

Weight	160 Kg	180 Kg	230 Kg
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## DIMENSIONAL DATA (mm)

Depth	760 mm	760 mm	760 mm
Wide	1550 mm	1550 mm	1550 mm
hight	1800 mm	1800 mm	1800 mm

APPLICAZIONI

INDUSTRY

PAINTING ROOM

DRYING

INDUSTRIAL PROCESS