



DDS - DCS



Plug & Play



Equipment with control



Display

DESCRIPTION

Domestic dehumidifier, DDS - DCS model, supplied as standard with advanced control, fully autonomous and designed for wall installation. DDS models are intended for direct installation within the conditioned space. Their design provides elegance, making them suitable for environments such as museums, archives, libraries, churches and basements. The sober yet refined appearance facilitates installation in both public and private environments, typically characterized by sophisticated design.

DCS models are designed for installation in a technical room adjacent to the dehumidified space: in this case, installation requires supply and return ductwork and plenums.

Polyester-coated structure for corrosion resistance and heat exchangers with anti-corrosion treatment. Removable front panel for full access to the unit, ensuring simple and fast maintenance. Screws and fastening systems in non-oxidizing materials, stainless steel or carbon steel with surface treatment. Stainless steel condensate tray. Rotary refrigerant compressor.

Available in 11 sizes with the possibility of installation within the conditioned space.

ADVANTAGES

- Direct installation in the conditioned space.
- Advanced integrated control.
- Fully autonomous humidity management.
- DDS model with casing for direct installation in the environment.
- DCS model concealed in adjacent technical room, with only supply and return grilles visible.
- Possibility of integrating Be.On module with direct cloud connection and Be.Smart monitoring.

ACCESSORIES

- Support feet
- Epoxy coil coating
- Silent version

COMPONENTS

FAN

3-speed EC centrifugal fan, allowing airflow rates in the range of 350 to 2000 m³/h. Corrosion-resistant structure.

HOT WATER COIL

Composed of a hot water post-heating coil and a 3-way valve directly controlled by the unit, designed to heat the supply air using hot water from a boiler or heat pump. The unit is supplied with coil and valve already installed and wired. For positioning of hydraulic connections, refer to dimensional drawings.

ELECTRICAL HEATERS

Allows heating of supply air when hot water is not available. Safety is ensured by a thermostat that, in case of overheating, deactivates the heating elements and signals an alarm. The unit is supplied with electric heating elements already installed internally.



CHARACTERISTICS

DDS-DCS	40	50	60	70	90	100
Dehumidification Capacity (30°/80% R.H.) (L/day)	46	52	62	68	92	99
Dehumidification airflow (m³/h)	350	450	500	600	700	800
Available static pressure (Pa)	40	40	40	40	40	40
Hot Water Coil (30°/80°-70°) (kW)	3,7	4,5	4,5	6,1	6,8	7,5
Electrical Heaters Power (kW)	1,5	1,5	1,5	2	3,6	3,6
Power consumption (kW)	0,9	0,9	1	1	1,7	1,7
Power Supply (V F Hz)	230 1 50					
Sound Pressure (dB(A))*	43	45	46	47	48	49

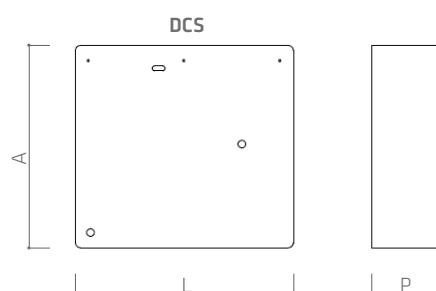
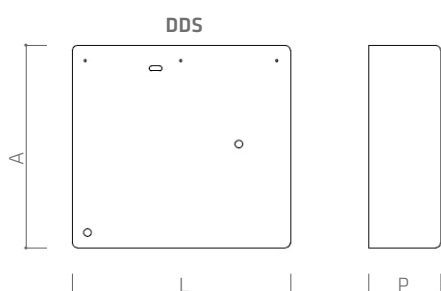
DDS-DCS	160	190	210	230	300
Dehumidification Capacity (30°/80% R.H.) (L/day)	165	186	211	226	300
Dehumidification airflow (m³/h)	1000	1200	1500	1500	2000
Available static pressure (Pa)	40	40	40	40	40
Hot Water Coil (30°/80°-70°) (kW)	10,1	11,5	14,5	14,5	17,7
Electrical Heaters Power (kW)	4,0	4,0	7,2	7,2	7,2
Power consumption (kW)	2,6	2,7	3,6	3,9	5
Power Supply (V F Hz)	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
Sound Pressure (dB(A))*	51	53	54	55	57

* Sound pressure level at 1 m, measured in open field in accordance with ISO 3744

DIMENSIONS

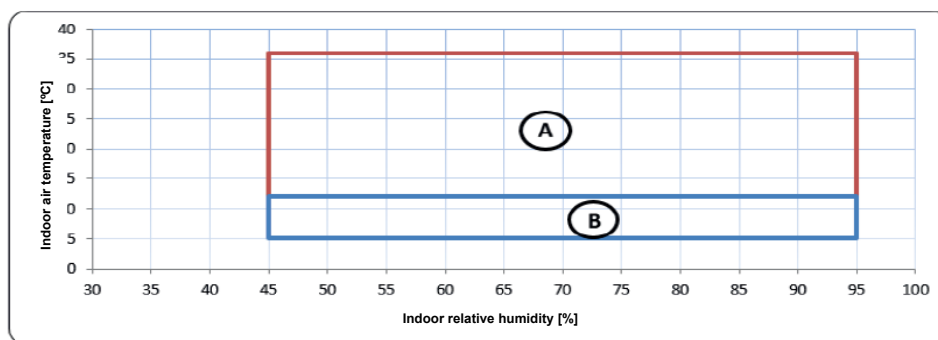
DDS	40	50	60	70	90	100	160	190	210	230	300
A (mm)	782	782	782	782	782	782	852	852	852	852	852
L (mm)	845	845	845	1045	1045	1045	1345	1345	1545	1545	1545
P (mm)	282	282	282	282	282	282	333	333	333	333	333
Weight (kg)	46	46	46	55	55	55	88	88	100	100	102

DCS	40	50	60	70	90	100	160	190	210	230	300
A (mm)	745	745	745	745	745	745	815	815	815	815	815
L (mm)	800	800	800	1000	1000	1000	1300	1300	1500	1500	1500
P (mm)	257	257	257	257	257	257	306	306	306	306	306
Weight (kg)	46	46	46	55	55	55	88	88	100	100	102





OPERATING LIMITS



A. Limite operacional do desumidificador

B. Limite operacional com instalação de opção de GÁS DEFROST