



ID/SP - IT/ST



Be.On



Plug & Play

Equipment
with control

Display

DESCRIPTION

Industrial dehumidifier, model ID/SP - IT/ST, designed for use in environments with high latent loads requiring 24-hour operation. ID-SP units are typically installed in environments such as public swimming pools, dairy processing plants, basements, wine cellars, warehouses, or wherever lack of humidity control may damage the structure or the stored product. Thanks to the temperature control function, IT-ST units equipped with a remote condenser ensure full control not only of humidity but also of ambient temperature, making them suitable for applications where control of both parameters is required.

Structure fully coated with polyester paint to resist corrosion. Heat exchangers treated with anticorrosion coatings. Fasteners and fixing systems made of non-oxidizing materials such as stainless steel or carbon steel with surface treatment. Units are equipped with removable panels to allow full access and facilitate maintenance.

Available in 20 sizes (ID-SP + IT-ST). Versions: ID (Industrial Dehumidifier), IT (Industrial Dehumidifier with condenser), SP (Pool Dehumidifier), and ST (Pool Dehumidifier with condenser).

ADVANTAGES

- Total humidity control (ID / SP) and ambient temperature and humidity control (IT / ST).
- Possible integration of Be On module with direct cloud connection and Be Smart monitoring.

ACCESSORIES

- Desuperheater
- Electrical Heaters
- EC fan
- Low-noise version

COMPONENTS

FAN

Centrifugal fan with backward-curved blades, directly coupled to an AC motor, uprated AC motor, or EC motor, the latter ensuring lower energy consumption and reduced noise levels.

HOT WATER COIL

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

ELECTRICAL HEATERS

Allows heating of the supply air when no hot water is available. Safety is ensured by a thermostat which, in case of overheating, deactivates the heating elements and signals an alarm. The unit is supplied with the electric heating elements already installed inside.

INTERNAL COMPRESSOR

Internal compressor performing condensation in three possible ways: to a remote condenser connected by copper refrigerant pipes (model IT/ST), water condensation for pool reheating (optional desuperheater), or air condensation where air cools the compressor while reheating the air.

CHARACTERISTICS

ID-SP IT-ST	100	130	160	190	210	260	300
Dehumidification Capacity (30°/80% R.H.) (L/day)	100	128	157	190	210	268	302
Airflow (m³/h)	900	1200	1600	1600	2000	2800	2800
Cooling capacity (kW)	4,9	6,5	8	10	11	15	16
Available static pressure (Pa)	50	50	50	50	50	50	50
Available static pressure EC fan (kW)	450	450	400	400	550	350	350
Hot Water Coil (30°/80°-70°) (kW)	5,5	9,8	9,8	9,8	16,5	17	17
Desuperheater (kW)	1,7	2	2,5	2,8	3,5	4,6	4,8
Power consumption (kW)	2,2	2,5	3,6	5,3	5,5	6,8	7
Power Supply (V F Hz)	230 1 50	230 1 50	230 1 50	230 1 50	400 3 50	400 3 50	400 3 50
Sound pressure level (dB(A))*	56	56	60	61	62	62	63
Weight (Kg)	100	100	105	110	120	130	140

ID-SP IT-ST	350	450	580	770	950	1100	1400
Dehumidification Capacity (30°/80% R.H.) (L/day)	358	452	581	760	955	1120	1350
Airflow (m³/h)	3800	4000	4800	7000	8200	11000	12500
Cooling capacity (kW)	19	23	30	38	50	56	66
Available static pressure (Pa)	50	50	50	130	130	200	200
Available static pressure EC fan (kW)	550	540	450	450	400	480	450
Hot Water Coil (30°/80°-70°) (kW)	26,5	26,5	27	48	55	76	83
Desuperheater (kW)	4,8	5,8	8,1	11,5	14,5	14	18
Power consumption (kW)	8,5	10	13,4	16,3	20	23	26,6
Power Supply (V F Hz)	400 3 50	400 3 50	400 3 50	400 3 50	400 3 50	400 3 50	400 3 50
Sound pressure level (dB(A))*	64	65	65	66	66	68	69

ID-SP IT-ST	1500	1700	1900	2200	3000	4500
Dehumidification Capacity (30°/80% R.H.) (L/day)	1480	1710	1870	2180	2960	4650
Airflow (m³/h)	13000	15000	15000	17000	25000	35000
Cooling capacity (kW)	75	86	96	110	148	226
Available static pressure (Pa)	200	200	200	200	200	200
Available static pressure EC fan (kW)	450	480	480	450	400	280
Hot Water Coil (30°/80°-70°) (kW)	98	107	107	118	168	235
Desuperheater (kW)	19	22	25	29	37	55
Power consumption (kW)	29	35	38	42	62	90
Power Supply (V F Hz)	400 3 50	400 3 50	400 3 50	400 3 50	400 3 50	400 3+N 50
Sound pressure level (dB(A))*	70	71	71	72	73	74

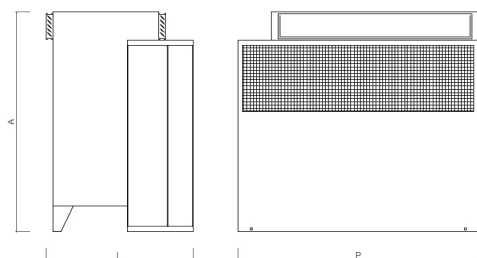
*Sound pressure level at 1 m, measured in open field in accordance with ISO 3744.



DIMENSIONS

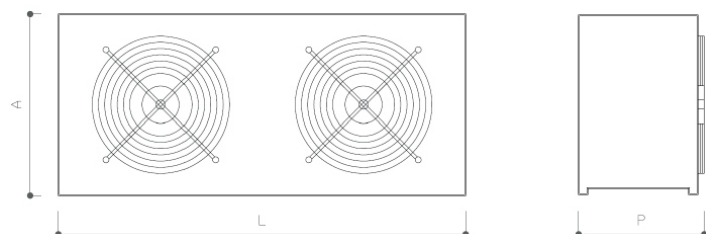
ID-SP IT-ST	100	130	160	190	210	260	300	350	450	580	750	950
A (mm)	900	900	900	900	900	900	900	1350	1350	1350	1350	1350
L (mm)	700	700	700	700	700	700	700	830	830	830	1000	1000
P (mm)	550	550	550	550	850	850	850	850	850	850	1400	1400
Weight (kg)	100	100	105	110	120	130	140	220	230	240	410	430

ID-SP IT-ST	1100	1400	1500	1700	1900	2200	3000	4500
A (mm)	1640	1640	1640	1640	1640	1640	1640	1640
L (mm)	1000	1000	1000	1000	1000	1000	1000	1000
P (mm)	1950	1950	2500	2500	2500	2500	3390	4430
Weight (kg)	650	720	780	840	900	950	1250	1550



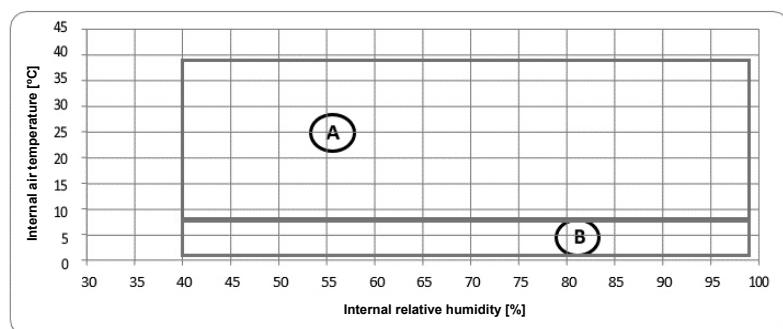
REMOTE CONDENSER	100	130	160	190	210	260	300	350	450	580	750	950
A (mm)	575	575	575	575	575	575	575	575	575	575	1130	1130
L (mm)	748	748	748	748	1303	1303	1303	1303	1858	1858	1858	1858
P (mm)	404	404	404	404	404	404	404	404	404	404	404	404
Weight (kg)	24	24	24	24	34	34	34	42	58	64	102	128

REMOTE CONDENSER	1100	1400	1500	1700	1900	2200	3000	4500
A (mm)	1130	1130	1144	1144	1144	1144	1144	1144
L (mm)	2413	2413	3800	3800	3800	3800	5550	3800
P (mm)	404	404	1100	1100	1100	1100	1100	1100
Weight (kg)	147	147	332	332	332	332	535	332



OPERATING LIMITS

ID-SP



A. Dehumidifier operating limit

B. Operating limit with optional GAS DEFROST installation