



SPR - STR



Plug & Play



Equipment with control



Display

DESCRIPTION

Heat recovery dehumidifier, models SPR - STR, ideal for swimming pools that not only require dehumidification but also need to renew indoor air while recovering its heat. Up to 80% efficiency guaranteed by the high-efficiency heat recovery system. These units use only high energy-efficiency EC fans and are equipped with software that allows measurement, control, and adjustment of the dehumidifier airflow. In STR units, thanks to the temperature control function with a remote condenser, the units ensure total control not only of humidity but also of ambient temperature, making them suitable for applications where both parameters must be controlled. Installation of the dehumidifier is extremely simple and fast.

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. Removable panels allow full access to the unit and facilitate maintenance.

Available in 20 sizes (SPR + STR). Version with air-side heat recovery or recovery and condensation: SPR (Pool Dehumidifier) and STR (Pool Dehumidifier with condenser).

ADVANTAGES

- Equipped with software to measure, control, and adjust airflow.
- Total humidity control (SPR) and ambient temperature and humidity control (STR).
- High-efficiency heat recovery.
- Possible integration of Be.On module with direct cloud connection and Be.Smart monitoring.

ACCESSORIES

- Desuperheater
- Electrical Heaters
- Hot water coil
- Low-noise version
- Automatic airflow control

COMPONENTS

FAN

Centrifugal fan with backward-curved blades, directly coupled to an EC electric motor, 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 STR), water condensation for pool reheating (optional desuperheater), or air condensation where air cools the compressor while reheating the air.

CHARACTERISTICS

SPR STR	100	130	160	190	210	260	300
Dehumidification Capacity (30°/80% R.H.) (L/day)	100	128	157	190	210	268	302
Nominal Airflow (m³/h)	900	1200	1600	1600	2000	2800	2800
Renewal Airflow (m³/h)	0-900	0-1200	0-1200	0-1200	0-2000	0-2000	0-2000
Cooling capacity (kW)	4,9	6,5	8	10	11	15	16
Supply/return pressure drop (Pa)	400/400	400/400	350/400	350/400	400/430	200/400	200/400
Heat recovery efficiency (%)	70	70	70	70	70	70	70
Hot Water Coil (kW)	5,5	9,8	9,8	9,8	16,5	17	17
Desuperheater (kW)	1,7	2	2,5	2,8	2,9	4,6	4,8
Power consumption (kW)	3,2	3,3	4,4	6,1	6,5	7,8	8
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))*	57	57	61	62	63	63	64

SPR STR	350	450	580	750	950	1100	1400
Dehumidification Capacity (30°/80% R.H.) (L/day)	358	452	581	760	955	1120	1350
Nominal Airflow (m³/h)	3800	4000	4800	7000	8200	11000	12500
Renewal Airflow (m³/h)	0-2000	0-2000	0-2000	0-6000	0-6000	0-11000	0-12500
Cooling capacity (kW)	19	23	30	38	50	56	66
Supply/return pressure drop (Pa)	460/500	440/480	440/420	650/480	600/450	750/1050	600/950
Heat recovery efficiency (%)	70	70	70	70	70	70	70
Hot Water Coil (kW)	26,5	26,5	27	48	55	76	83
Desuperheater (kW)	4,3	5,8	8,1	11,5	14,5	14	18
Power consumption (kW)	9,6	11,2	14,4	18,9	22,6	28,5	31,8
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 (dB(A))*	65	66	66	67	67	69	70

SPR STR	1500	1700	1900	2200	3000	4500
Dehumidification Capacity (30°/80% R.H.) (L/day)	1480	1710	1870	2180	2960	4650
Nominal Airflow (m³/h)	13000	15000	15000	17000	25000	35000
Renewal Airflow (m³/h)	0-13000	0-13000	0-13000	0-13000	0-20000	0-28000
Cooling capacity (kW)	75	86	96	110	148	226
Supply/return pressure drop (Pa)	500/700	480/650	480/650	400/600	300/480	280/450
Heat recovery efficiency (%)	70	70	70	70	70	70
Hot Water Coil (kW)	98	107	107	118	168	235
Desuperheater (kW)	19	22	25	29	38	55
Power consumption (kW)	34,2	40,4	43,8	47,8	68	96
Power Supply (V/F/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Sound Pressure (dB(A))*	71	72	72	73	74	75

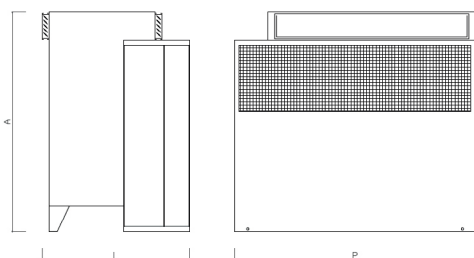
*Sound pressure level at 1 m, measured in open field according to ISO 3744.



DIMENSIONS

SPR STR	100	130	160	190	210	260	300	350	450	580	750	950
A (mm)	1320	1320	1320	1320	1320	1320	1320	1769	1769	1769	1950	1950
L (mm)	550	550	550	550	850	850	850	850	850	850	1400	1400
P (mm)	1452	1452	1452	1452	1452	1452	1452	1682	1682	1682	2331	2331
Weight (kg)	155	155	160	165	200	210	220	250	270	300	515	540

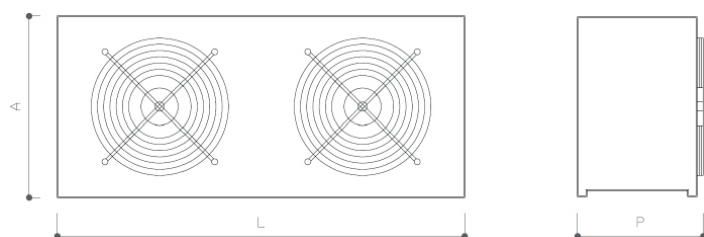
SPR STR	1100	1400	1500	1700	1900	2200	3000	4500
A (mm)	2385	2385	2385	2385	2385	2385	2385	2385
L (mm)	1950	1950	2500	2500	2500	2500	3390	4430
P (mm)	2510	2510	2510	2510	2510	2510	2510	2510
Weight (kg)	870	1060	1280	1280	1290	1290	1680	2825



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

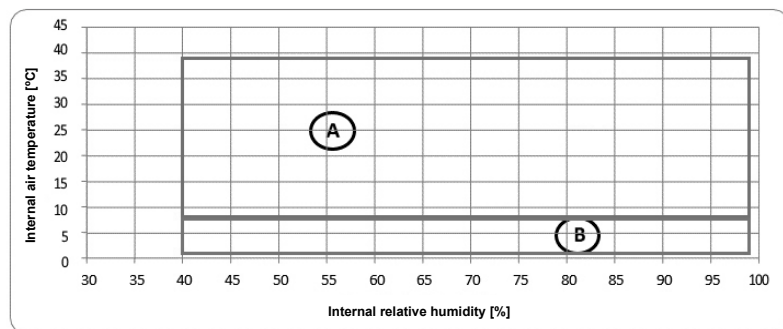
REMOTE CONDENSER	1100	1400	1500	1700	1900	2200	3000	4500*
A (mm)	1130	1130	1144	1144	1144	1144	1144	1144
L (mm)	2413	2413	3800	3800	3800	3800	5550	3800
P (mm)	404	404	900	900	900	900	900	900
Weight (Kg)	147	147	332	332	332	332	535	332

* Size 4500 requires two condensers; the indicated characteristics are per condenser.



OPERATING LIMITS

SPR



A. Dehumidifier operating limit

B. Operating limit with optional GAS DEFROST installation

STR

