

STR

DEHUMIDIFIERS WITH HIGH AIR RENEWAL AND TEMPERATURE CONTROL

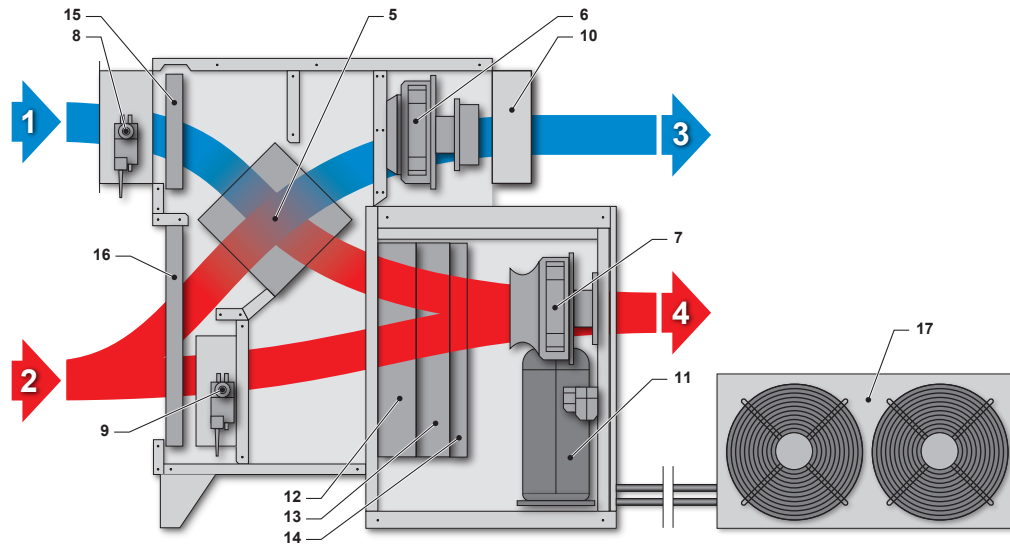


The **STR** models are the ideal units for industries and swimming pools that require not only dehumidification, but also a high air renewal, without dispersing the internal heat outdoors, and the temperature control. With an efficiency of the recovery up to 80%, these units represent the state-of-art in terms of efficiency, reliability and emitted sound power. The STR range only uses electronic radial fans with high-energy efficiency inverter integrated. Thanks to the temperature control function, with an external condenser, these units grant a full control, not only of the humidity, but also of the ambient temperature. Therefore, these units are suitable for those applications in which the contemporary control of both the parameters is required. Moreover, thanks to a sophisticated software, developed in HIDEW, the air flow can be set, measured and controlled: it eliminates any chance of incorrect calculation of load losses. Finally, the installation and the first start of these units result simple, quick and cheap.

Technical sheet of the range		STR									
		0100	0130	0160	0190	0210	0260	0300	0350	0450	0580
Dehumidifying capacity (1)	L/Day	100	128	157	190	210	268	302	358	452	581
Recirculation air flow rate	m³/h	900	1200	1600	1600	2000	2800	2800	3800	4000	4800
Fresh air flow rate	kW	0 - 900	0 - 1200	0 - 1200	0 - 1200	0 - 2000	0 - 2000	0 - 2000	0 - 2000	0 - 2000	0 - 2000
Hot water coil capacity (1)	kW	5,5	9,8	9,8	9,8	16,5	17	17	26,5	26,5	27
Heat recovery system efficiency (2)	kW	70	70	70	70	70	70	70	70	70	70
Electric power supply	V/ph/Hz	230 / 1+N / 50					400 / 3+N / 50				
Dimensions L x P x H	mm	550 x 1452 x 1320				850 x 1452 x 1320			850 x 1682 x 1769		
Weight	kg	155	155	160	165	200	210	220	250	270	300

Technical sheet of the range		STR									
		0750	0950	1100	1400	1500	1700	1900	2200	3000	4500
Dehumidifying capacity (1)	L/Day	760	955	1120	1380	1480	1710	1870	2180	2960	4650
Recirculation air flow rate	m³/h	7000	8200	11000	12500	13000	15000	15000	17000	20000	35000
Fresh air flow rate	kW	0 - 6000	0 - 6000	0 - 11000	0 - 12500	0 - 13000	0 - 15000	0 - 15000	0 - 17000	0 - 20000	277
Hot water coil capacity (1)	kW	48	55	76	83	98	107	107	118	168	
Heat recovery system efficiency (2)	kW	70	70	70	70	70	70	70	70	70	235
Electric power supply	V/ph/Hz	400 / 3+N / 50									
Dimensions L x P x H	mm	1400 x 2331 x 1950		2700 x 1950 x 2340		2500 x 2505 x 2380			2500 x 3390 x 2380		2500 x 4430 x 2380
Weight	kg	710	730	870	1060	1280	1280	1290	1290	1680	2100

(1) Inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C; outdoor air: 30°C - 50% RH; 100% recirculation.
 (2) Indoor air: 26°C - 60% RH; outdoor air: -5°C - 80% RH.



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|--|----------------------------------|------------------------------------|
| 1 Inlet fresh outdoor air flow | 7 Recirculation air fan | 13 Condenser coil |
| 2 Indoor recirculation air flow | 8 Outdoor air damper | 14 Reheat coil (optional) |
| 3 Expelled outdoors air flow | 9 Calibration damper | 15 Outdoor fresh air filter |
| 4 Supply air flow indoors | 10 Discharged air gravity damper | 16 Indoor recirculation air filter |
| 5 High-efficiency crossed flows heat recovery system | 11 Compressor | 17 External condenser |
| 6 Exhaust air exhaust fan | 12 Evaporator coil | |

Options:

- High efficiency air filters
- Hot water coil with 3-ways valve
- Chilled water coil with 3-ways valve
- Free cooling
- Silent version -2 dB(A)
- Soft-start
- Manometers
- Hot gas defrost
- Contact for 0-10 V humidifier control
- De-superheater for swimming pool water
- ACF - Automatic Control Flow
- Clock card – time scheduling
- Dirty filters sensor
- Remote user terminal including 20 m cable
- TH probe for duct installation
- Serial board Modbus, Lonworks, Bacnet, Konnex, Ethernet™
- External version (outside temperature down to -10°C)
- Panels thermal insulation, thickness 20 mm or 40 mm

