STR

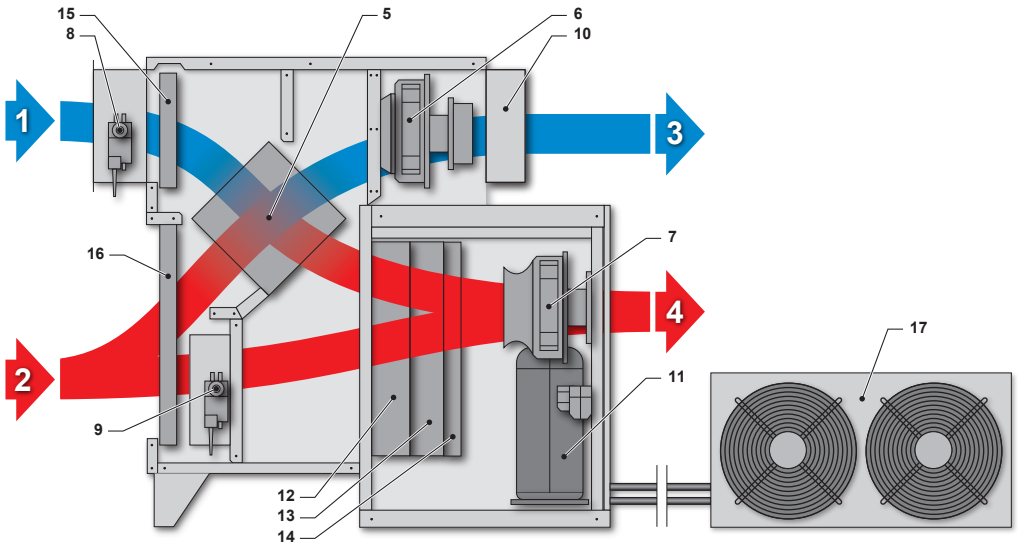
DEHUMIDIFIERS WITH HIGH AIR RENEWAL AND TEMPERATURE CONTROL

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 results simple, quick and cheap.

Technical sheet range **STR**		0130	0160	0190	0210	0260	0300
Dehumidifying capacity	L / day	128	157	190	210	268	302
Recirculation air flow rate	m^3/h	1200	1600	1600	2000	2800	2800
Fresh air flow rate	m^3/h	0 - 1200	0 - 1200	0 - 1200	0 - 2000	0 - 2000	0 - 2000
Cooling power	kW	6,5	8	10	11	15	16
Hot water coil capacity	kW	9,8	9,8	9,8	16,5	17	17
Electrical heaters capacity	kW	5	5	5	6	6	6
Heat recovery system efficiency	%	70	70	70	70	70	70
Power supply	V/ph/Hz	I---------- 230/1/50 ----------I			I---------- 400/3/50 ----------I		

Technical sheet range **STR**		0350	0450	0580	0750	0950	1100	1400
Dehumidifying capacity	L / day	358	452	581	760	955	1120	1380
Recirculation air flow rate	m^3/h	3800	4000	4800	7000	8200	11000	12500
Fresh air flow rate	m^3/h	0 - 2000	0 - 2000	0 - 2000	0 - 6000	0 - 6000	0 - 11000	0 - 12500
Cooling power	kW	18	23	30	38	50	56	66
Hot water coil capacity	kW	26,5	26,5	27	48	55	76	83
Electrical heaters capacity	kW	6	11	11	22	22	36	43
Heat recovery system efficiency	%	70	70	70	70	70	70	70
Power supply	V/ph/Hz	I---------- 400/3/50 ----------I						

Dehumidification power in following conditions: Air Temperature 30°C, Relative Humidity 80% net of contribution of air renewal
Recovery system efficiency with indoor 26°C/60% RH outdoor -5°C/80% RH conditions



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

Options:

- ACF: automatic control flow
- Hot water reheat coil with valve
- Desuperheater
- Dirty filters sensor
- Softstart
- RS485 serial port
- More powerful water coil for heat pump (on request)
- Electrical heaters
- Clock card - time bands
- Wall remote terminal
- Outdoor version
- Manometers
- Summer / Winter operating modes
- Silent version
- High efficiency air filters

Key to symbols used

Heat Recovery

Isothermic version

High Efficiency Fans

De-humidification

R410A refrigerant gas

EC plug fans

Winter time heating mode

R134a refrigerant gas

Low noise version

Summer time cooling mode

Scroll Compressors

Air filter

Free-Cooling

BLDC Compressors

Remote control via RS485