Swimming pool dehumidifiers type SHA

Ductable horizontal dehumidifier for indoor swimming pools. The **SHA** increases comfort and prevents mould growth and moisture damage to furniture or the building structure. The units have an epoxy coating to resist chlorine vapours. Optionally, this dehumidifier can be equipped with a heating coil for a more pleasant indoor climate. **The dehumidifier does not have a built-in humidity probe. Choose from the accessories listed below for a built-in humidity probe RGDD or a remote humidistat HYGR for installation in the swimming pool area.**

Brand

- Emicon

Application

- Dehumidification of indoor swimming pools
- On request also available as an industrial dehumidifier (HHA version) operating up to 5°C instead of up to 20°C.

Capacity

- 50 to 200 l/24h
- 500 to 1650 m³/h

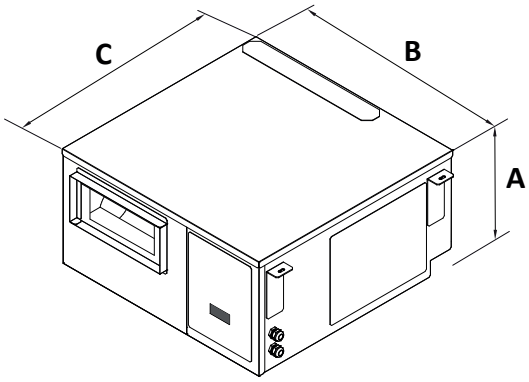
Accessoires

- **HYGR** – Remote mechanical hygrostat. To be installed on the wall, it is supplied with a regulation knob and working range from 30% to 100% with precision of 3%.
- **HOEL -** Electric post-heating battery (Also take the RGDD.05 in this case).
- **HOWA -** Hot water battery (on central heating water from the boiler or heat pump) to heat the air in the room after drying (also take the KIVM and RGDD.05 in this case).
- **KIVM -** modulating 3-way valve. In combination with the HOWA hot water battery. The 3-way valve is controlled directly from the microprocessor of the unit.
- **INSE -** Serial Interface Card RS485. This interface card allows the regulator to communicate with other devices via the Modbus protocol.
- **LS00** - Low noise version (standard).
- **PCRL** - Remote control. This panel can be mounted up to 50 m (maximum) from the device and displays all control functions. It is connected using a double cable with a section of 0.75 mm².
- **RGDD** - Humidity and Temperature electronic sensor. Built-in Electronic temperature and humidity sensor.
- **RP01** - Partial heat recovery. The exchanger is designed to recover approximately 20% of the thermal capacity generated by the unit to the poolwater. (Watercondensor Cu-Ni).
- **KGBH** - Louver kit and case for ducted version.
- **V1CE -** E.C. fan 200 Pa.

Technical data						
SHA		50	75	100	150	200
Moisture removal at 30°C - 80%	l/24h	49	73	95	155	190
Moisture removal at 30°C - 60%	l/24h	39	56.7	77.4	118.3	146.7
Moisture removal at 27°C - 60%	l/24h	34.9	50.1	69.1	104.4	129.5
Moisture removal at 20°C - 60%	l/24h	25.6	35.4	50.7	75.7	92.5
Nominal input power	kW	0.97	1.29	1.76	2.07	2.74
Maximum input power	kW	1.2	1.5	2	2.3	3.1
Electrical post-heater (option)	kW	3	3	3	6	6
Maximum input current (1)	A	3.9	5.6	8.4	10.5	13.2
Peak current	A	19.1	20.1	38.4	44.7	63.7
Hot water coil (2)	kW	3.5	7.5	8.5	13	14
Partial heat recovery(3)	kW	-	1.1	1.7	2.3	3
Air flow rate	m^3/h	500	800	1000	1400	1650
Available static pressure	Pa	50÷150				
Refrigerant (GWP)		R410A (2088)				
Refrigerant charge	g (CO2eq-T)	360 (0.752)	600 (1.253)		900 (1.879)	
Sound power (4)	dB(A)	57	59	61	66.5	68.5
Sound pressure level (5)	dB(A)	50	52	54	59.5	61.5
Power supply	V/Ph/Hz	230/1/50				

Performances are calculated with low fan speed and are referred to the following conditions:

- (1)Temperature 30°C, Humidity 80%
- (2)Room temperature 30°C, water temperature 80/70°C, compressor OFF
- (3)Room temperature 30°C/80%, water temperature 27/32°C
- (4)Sound power level calculated according to ISO 9614, fan with available static pressure 50 Pa
- (5)Sound pressure level measured at 1 meter from the unit in free field conditions according to ISO 9614



Dimensions				
	A [mm]	B [mm]	C [mm]	[kg]
SHA 50	360	700	710	63
SHA 75	460	980	900	95
SHA 100	460	980	900	122
SHA 150	530	1160	1050	131
SHA 200	530	1160	1050	140

Accessories					
SHA	50	75	100	150	200
Hot water coil (LPHW)	HOWA.49	HOWA.75		HOWA.76	
Electrical post-heating battery 3 kW (230/1/50)	HOEL.29	-	-	-	-
Electrical post-heating battery 3 kW (230/1/50)	-	HOEL.30		-	-
Electrical post-heating battery 4,5 kW (230/1/50)	-	-	-	-	-
Electrical post-heating battery 6 kW (230/1/50)	-	-	-	HOEL.62	
Built-in electronic temperature/humidity sensor	RGDD.05				
Mechanical humidistat	HYGR.20				
Remote control panel	PCRL.10				
Serial card RS485-MODBUS	INSE.10				
Built-in 3-way valve	KIVM.75			KIVM.76	
Cu-Ni Partial heat recovery watercondensor	-	RP01.75	RP01.10	RP01.20	
Louver kit and case with subframe	KGBH.50	KGBH.75		KGBH.15	
AC fan with available static pressure up to 150 Pa	Standard				
EC fan with available static pressure up to 200 Pa	V1CE.10		V1CE.20		