Swimming pool dehumidifiers type SDA

Vertical ductable dehumidifier for indoor swimming pools. The **SDA** 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

- Hidros

Application

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

Capacity

- 75 to 200 l/24h
- 800 to 1800 m³/h

Accessoires

- **CANA** – Flange for connection of an exhaust duct. Preformed rectangular flange for easy connection of an exhaust duct mounted on the exhaust side of the fan. (standard)
- **HYGR** – Remote mechanical hygrostat for wall mounting. It comes with a control knob and a working range from 30% to 100% with an accuracy 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).
- **INSE** - RS485 serial interface card. This interface card allows the controller to communicate with other devices using the Modbus protocol.
- **KIVM** - 3 way modulating valve kit. It is used to control the flow of water in the battery. The 3-way valve is controlled directly from the microprocessor in this

unit.
- **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 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 into the pool water. (water condenser)
- **V1CE** - EC-fan 300 Pa

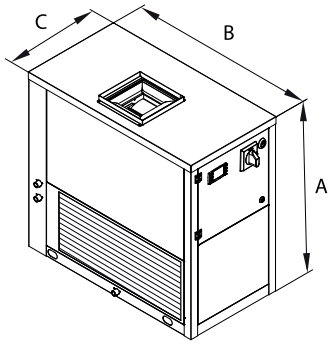
Order example

The "SDA 200 1PH LPHW" is a stock product central warehouse unless sold and has the following options fitted as standard:

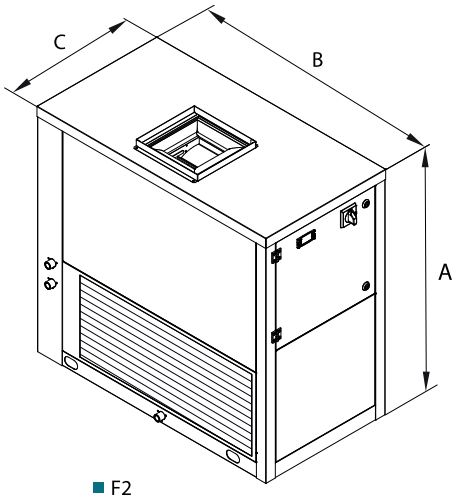
- **RGDD** Humidity and temperature sensor Built-in
- **HOWA** Hot water battery
- **KIVM** 3 way modulating valve kit (Build-in)

Technical data							
SDA		**75**	**100**	**150**	**153**	**200**	**203**
Moisture removal at 30°C - 80%	**l/24h**	73	95.2	157.1	157.1	194.3	194.3
Moisture removal at 30°C - 60%	**l/24h**	56.6	76.5	111	111	145.3	145.3
Moisture removal at 27°C - 60%	**l/24h**	49.4	68.5	99.7	99.7	127.8	127.8
Moisture removal at 20°C - 60%	**l/24h**	34.5	50.2	66.6	66.6	90.6	90.6
Nominal input power(1)	**kW**	1.4	1.83	2.22	2.22	2.84	2.84
Maximum input power(1)	**kW**	1.8	2	2.7	3.0	3.2	3.5
Electrical post-heater (option)	**kW**	3	3	6	4.5	6	4.5
Maximum input current(1)	**A**	7.1	8.1	12.6	8.1	15.5	9.5
Peak current	**A**	25	38	47	31	66	46
Hot water coil(2)	**kW**	7.5	8.5	13.9	13.9	15.2	15.2
Partial heat recovery(3)	**kW**	1.1	1.7	2.3	2.3	3.0	3
Air flow rate	**m^3/h**	800	1000	1500	1500	1800	1800
Available static pressure	**Pa**	50÷150	50÷150	50÷150	50÷150	50÷150	50÷150
Refrigerant (GWP)		R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Refrigerant charge	**g (CO2eq-T)**	550 (1.148)	550 (1.148)	1100 (2.297)	1100 (2.297)	1100 (2.297)	1100 (2.297)
Sound power(4)	**dB(A)**	59	61	67	67	69	69
Sound pressure level(5)	**dB(A)**	52	54	60	60	62	62
Power supply	**V/Ph/Hz**	230/1/50	230/1/50	230/1/50	400/3+N/50	230/1/50	400/3+N/50

Performances are calculated with low fan speed and are referred to the following conditions:
- (1) Without electrical heater
- (2) Room temperature 30°C, water temperature 80/70°C, compressor OFF
- (3) Room temperature 30°C/80%, water temperature 27/32°C, compressor OFF
- (4) Sound Power level 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 with ISO 9614, fan with available static pressure 50 Pa



■ F1



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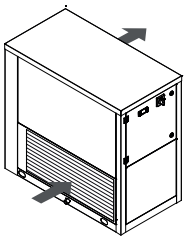

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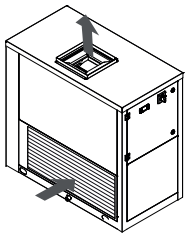

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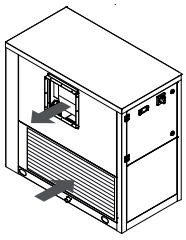

■ ASLE

Dimensions					
	Frame	A [mm]	B [mm]	C [mm]	[kg]
SDA 75	F1	800	800	400	85
SDA 100	F1	800	800	400	90
SDA 150/153	F2	1000	1060	550	130
SDA 200/203	F2	1000	1060	550	135

Accessories						
SDA	75	100	150	153	200	203
Hot water coil (LPHW)	HOWA.75	HOWA.75	HOWA.76	HOWA.76	HOWA.76	HOWA.76
Electrical post-heating battery 3 kW (230/1/50)	HOEL.30	HOEL.30	-	-	-	-
Electrical post-heating battery 4,5 kW (230/1/50)	-	-	-	HOEL.45	-	HOEL.45
Electrical post-heating battery 6 kW (230/1/50)	-	-	HOEL.62	-	HOEL.62	-
Built-in electronic temperature/humidity sensor	RGDD.05	RGDD.05	RGDD.05	RGDD.05	RGDD.05	RGDD.05
Mechanical humidistat	HYGR.20	HYGR.20	HYGR.20	HYGR.20	HYGR.20	HYGR.20
Remote control panel	PCRL.10	PCRL.10	PCRL.10	PCRL.10	PCRL.10	PCRL.10
Serial card RS485-MODBUS	INSE.10	INSE.10	INSE.10	INSE.10	INSE.10	INSE.10
Built-in 3-way valve	KIVM.75	KIVM.75	KIVM.76	KIVM.76	KIVM.76	KIVM.76
Partial heat recovery watercondensor CU-NI	RP01.75	RP01.10	RP01.20	RP01.20	RP01.20	RP01.20
AC fan with available static pressure up to 150 Pa	Standard	Standard	Standard	Standard	Standard	Standard
EC fan with available static pressure up to 300 Pa	V1CE.10	V1CE.10	V1CE.20	V1CE.20	V1CE.20	V1CE.20
Rubber vibration dampers	KAVG.20	KAVG.20	KAVG.20	KAVG.20	KAVG.20	KAVG.20