DUCTED DEHUMIDIFIERS

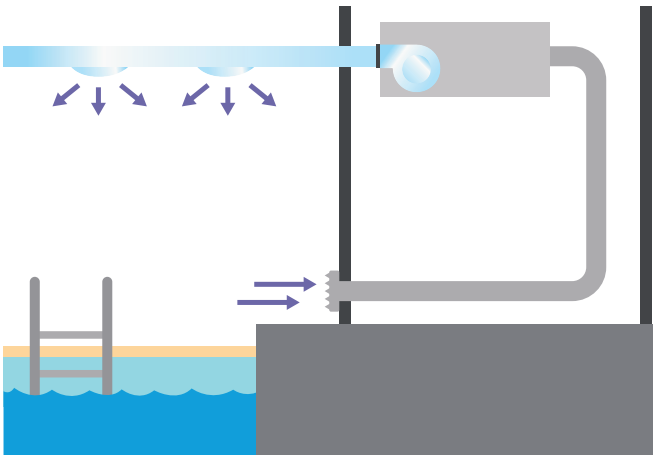


DPG

DPG- BC

DPG and DPG-BC units are high performance models specially designed for indoor pool environment and they are also able to dry other rooms where humidity could be a problem.

SPECIFICATIONS



Discharge ducts installation drawings

- Self-supporting frame with removable panels.
- Galvanized steel panels with epoxy coating.
- G5 air filter with synthetic fiber (non-electrostatic), easily cleanable.
- All DPG units have an electronic controller in order to control:
  - Compressor operation
  - Defrost cycles
  - Humidity levels
  - Air heating levels
  - Alarms

AVAILABLE ACCESSORIES:

- Integrated electronic sensor for humidity and temperature control.
- Remote hygro thermostat controller
- Remote thermo-hygro thermostat controller
- Electrical air heater
- Hot water coil and regulation
- Condensation heat recovery

DIFFERENT DPG-BC CONFIGURATIONS:



RI
Straight Horizontal discharge



VE
Vertical discharge (standard)



LE
Left side return discharge

TECHNICAL **SPECIFICATIONS**

RANGE		DPG				
Model		**50 1-Phase**	**75 1-Phase**	**100 1-Phase**	**150 1-Phase**	**200 1-Phase/3-Phase**
Dehumidification capacity	**30°C / 80% HR**	2,0 l/h	3,0 l/h	4,0 l/h	6,5 l/h	7,9 l/h
	30°C / 70% HR	1,9 l/h	2,8 l/h	3,5 l/h	5,9 l/h	7,2 l/h
	30°C / 60% HR	1,6 l/h	2,4 l/h	3,2 l/h	4,9 l/h	6,1 l/h
Operating range		50 to 100% humidity and 20°C to 35°C				
Max air flow		500 m³/h	800 m³/h	1000 m³/h	1400 m³/h	1650 m³/h
Power supply		230V / 1~ + N / 50Hz				
Energy input (maximum)		5,2 A (6,5 A)	7,0 A (8,2 A)	9,6 A (10,9 A)	11,3 A (12,5 A)	14,9 A (16,8 A) or 6,6 A (7,5 A)
Refrigerant		R410a				
Noise level (at 1m)		50 dB(A)	52 dB(A)	54 dB(A)	60 dB(A)	62 dB(A)
Weight		40 kg	50 kg	55 kg	73 kg	79 kg
AVAILABLE OPTIONS						
Electrical heater		3 kW	3 kW	3 kW	6 kW	6 kW
Hot water coil * and regulation		3,5 kW	3,5 kW	8,5 kW	13 kW	14 kW
Remote hygro-thermostat		wireless	wireless	wired	wired	wired

* Performance with water 80/70 °C – air 30°C

RANGE		DPG-BC					
Model		**270 3-Phase**	**350 3-Phase**	**450 3-Phase**	**550 3-Phase**	**750 3-Phase**	**950 3-Phase**
Dehumidification capacity	**30°C / 80% HR**	11,0 l/h	14,2 l/h	17,5 l/h	23,6 l/h	31,3 l/h	39,1 l/h
	30°C / 70% HR	9,4 l/h	12,6 l/h	15,8 l/h	20,7 l/h	28,1 l/h	35,4 l/h
	30°C / 60% HR	7,7 l/h	10,9 l/h	14,0 l/h	17,7 l/h	24,9 l/h	31,7 l/h
Operating range		50 to 100% humidity and 20°C to 35°C					
Max air flow		3800 m³/h	4200 m³/h	4200 m³/h	5500 m³/h	7000 m³/h	8500 m³/h
Power supply		400V / 3~ + N / 50Hz					
Energy input (maximum)		8,8 A (12,0 A)	11,3 A (14,2 A)	15,5 A (17,9 A)	16,2 A (22,0 A)	20,9 A (27,0 A)	28,0 A (38,3 A)
Refrigerant		R410a					
Noise level (at 1m)		63 dB(A)	64 dB(A)	64 dB(A)	66 dB(A)	66 dB(A)	66 dB(A)
Weight		207 kg	211 kg	215 kg	415 kg	423 kg	430 kg
AVAILABLE OPTIONS							
Electrical heater		9 kW	9 kW	9 kW	9 ou 18 kW	9 ou 18 kW	9 ou 18 kW
Hot water coil * and regulation		22,8 kW	24,0 kW	24,0 kW	42,0 kW	49,0 kW	56,0 kW
Remote hygro-thermostat		wired	wired	wired	wired	wired	wired

* Performance with water 80/70 °C – air 30°C

DIMENSIONS

Model DPG	50 1-Phase	75 1-Phase	100 1-Phase	150 1-Phase	200 1-Phase/3-Phase
A (mm)	710	980	980	1160	1160
B (mm)	700	900	900	1050	1050
C (mm)	360	460	460	530	530

DPG



Model DPG-BC	270 3-Phase	350 3-Phase	450 3-Phase	550 3-Phase	750 3-Phase	950 3-Phase
A (mm)	1154	1154	1154	1504	1504	1504
B (mm)	704	704	704	854	854	854
C (mm)	1378	1378	1378	1750	1750	1750

DPG-BC



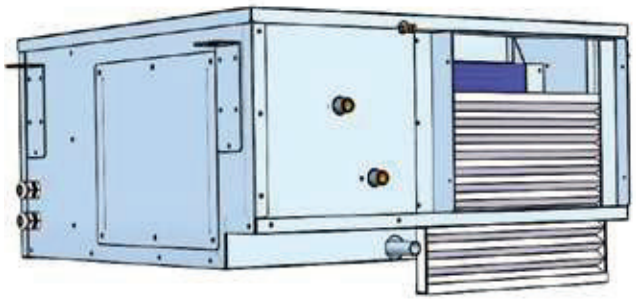
INSTALLATION

DGP ONLY

The **DPG models are very compact** and particularly well suited to installations where unit dimensions are critical:

- The unit is designed to be installed in the ceiling with special fixation brackets.
- You can change the filter from the top or the bottom of the unit using a deignated trap.
- The unit may be hidden in a suspended ceiling if there is sufficient space.

This solution allows **to clear the floor space** if it is limited of for other equipments.



DPG AND DPG-BC

For flexibility purposes, the fans have an admissible air pressure **discharge rating of 150 Pa** (300 Pa as an option).

All the exchangers have a specific surface treatment **to resist to chemical corrosion** in the pool environment (chlorine, salt...).



For air warming purposes, the units can be equipped with the following options:

- **Standard heater** (anodized aluminum electric heater integrated in the unit) controlled by the dehumidifier. The unit circulates air in order to measure the temperature and heats up the air if required
- **Hot water battery** – it is an air/water coil which is also treated to resist to a corrosive environment (connected to the house warming system)

The unit can also control (as an option) a 3-way valve which will regulate the unit to heat the air in the room, like a thermostatic valve on a radiator.

It is possible to **connect all house warming heating solutions** to the hot water battery:

- Fuel gas heater
- Gas heater
- Heat pump
- Wood granulate heater

Beware, the power of the battery will depend on the inflowing water temperature (between 55°C and 80°C).

For the users, it is simple and **only two parameters require setting to regulate the unit: humidity and temperature.**
The unit self regulates to reach the required set-points.

It is also possible to have a **remote display for the unit** as an option (cable of 50 meters maximum)



