



Dantherm Non-Ducted Swimming Pool Dehumidifiers

Take control of your
swimming pool environment

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Ideal for indoor pool applications including Domestic, Therapy, Health Clubs and Hotel & Spa pools, the Dantherm range of non-ducted dehumidifiers, are the only choice when it comes to efficiency, reliability and performance.

Protect your pool building

An indoor swimming pool is a wonderful leisure and exercise environment, but there are many important factors to consider when planning and designing a pool.

Even when you cannot see it, moisture in the form of water vapour is all around us in the air. The humidity in the air, if not controlled, will cause corrosion, mould and bacteria growth. When left unchecked, moisture damage in swimming pool buildings causes major structural damage.

Dantherm dehumidifiers cleverly convert the energy locked up in the moisture into heat used to heat the room. The free heat recovered by dehumidification is not only "green", but it accelerates the drying process, keeps the boiler off for longer, reduces the evaporation from the pool and creates a warm dry environment.

Efficient

Dantherm dehumidifiers are exceptionally efficient, recovering the latent energy that is contained in the moisture and delivering it back to the pool hall in the form of heat.

Using a Calorex dehumidifier minimises the need to introduce and heat the cold outdoor air into the pool hall to dehumidify, which can be costly.

Models

Available as wall mount, floor standing or through wall models (TTW), for installation outside of the pool hall, the Dantherm range of dehumidifiers also offer air heating via LPHW (low pressure hot water) or Electric Resistance Heating.

The dehumidifiers within this brochure are subject to a 2 year manufacturer's warranty, plus they are supported by a nationwide network of service engineers.

Dantherm Floor Standing Dehumidifier – Air to Air Heat Recovery DHI20

The DH 120 is a powerful condensation dehumidifier designed to manage excess moisture in swimming pool areas as well as commercial and industrial spaces.

The floor-standing dehumidifier can remove up to 164.3 litres of moisture per day, effectively controlling humidity levels to prevent mould and mildew growth. The dehumidifier has been fitted with an easy-to-use control system that lets you set your desired humidity level. It features a durable aluminium housing with cataphoresis-painted coils for corrosion resistance, an electronic humidistat for precise control, and the two fan speed modes Comfort and Boost. The factory-installed low-pressure hot water heating coil is designed for water temperatures of 55°C.

Key features

- Aluminium housing and cataphoresis painted coils for corrosion resistance
- Electronic humidistat for improved humidity control
- Two fan speed modes – Comfort and Boost
- Factory-fitted large capacity LPHW heating coil specified for 55°C
- water temperature
- Designed as a floor-standing unit
- Direct water drainage
- User friendly dashboard
- Modern design
- Easy to install and use



TECHNICAL SPECIFICATION	DHI20AX	DHI20AX/L	
Dehumidification Capacity	(L/hr)	3.9	3.9
Dehumidification Capacity	(L/Day)	94	94
TOTAL HEAT TO AIR			
Dehumidifier Only (heat recovery)	kW	6.5	6.5
LPHW Air Heating	kW	n/a	15.9
Air Flow Rate	m ³ /hr	1200	1200
Total LPHW+ Heat Recovery	kW	n/a	18.6
LPHW Flow Rate	l/min	n/a	23.3
LPHW Pressure Drop	m hd	n/a	4.6
Condensate Drain	mm	16	16
Electrical Supply	Volts/Hz	230/50	230/50
Fuse	Amp	16	16
Nominal Running (Amps)	Amp	9.7	9.7
FLA Full Load Amps	Amp	12.5	12.5
Power Consumed (Nominal)	kW	2.13	2.13
Compressor LRA	Amp	35.5	35.5
Noise Level @ 3m	dB (A)	56	56
DIMENSIONS FOR WALL MOUNT			
Width (unpacked)	mm	1408	1408
Height (unpacked)	mm	860	860
Depth (unpacked)	mm	365	365

- LPHW = Low pressure hot water
- Humidistat adjustable from 40% to 80% RH
- Defrost is standard on all models, allowing operation down to 5°C
- These performance figures are based on air at 30°C and 60%
- RH and pool water at 28°C with boiler water at 80°C
- Fuses should be motor rated
- R454C Refrigerant

Wall mounted Dehumidifiers – Air to Air Heat Recovery DH 35 and DH65

The Dantherm Dehumidifier has larger LPHW air heating capacity than the original Vaporex with a comparative physical size and minimal adjustments to the pipework connections

Key features

- Aluminium housing
- Corrosion resistant coating
- Electronic humidistat
- Factory fitted heating coils
- 2 fan operating modes – Cycle and Continuous
- R454C Refrigerant
- Dual position LPHW pipework connections
- Fully anti corrosion coated coils



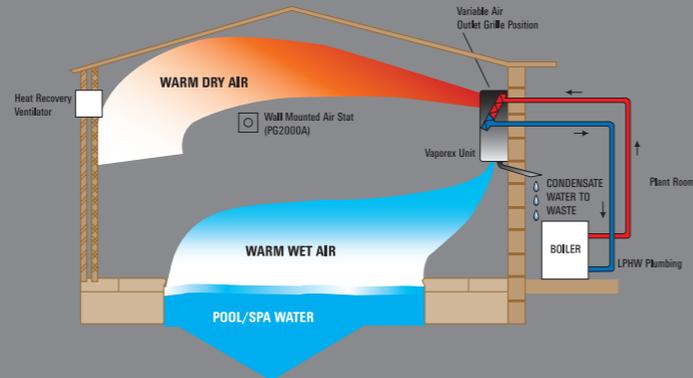
Air Heating Facility

Models 35 and 65 can be supplied with LPHW heater batteries which will provide pool room air heating, thus eliminating the need for separate fan heaters and / or radiators. 3.8kW heating is available on the 35 model, 7.5kW on the 65 model.

Models with electric heating elements are also available. Model 35 provides 2kW heat and Model 65 provides 3.5kW of heat.

Models with electric air heaters come with easily accessible pre-installed thermostat.

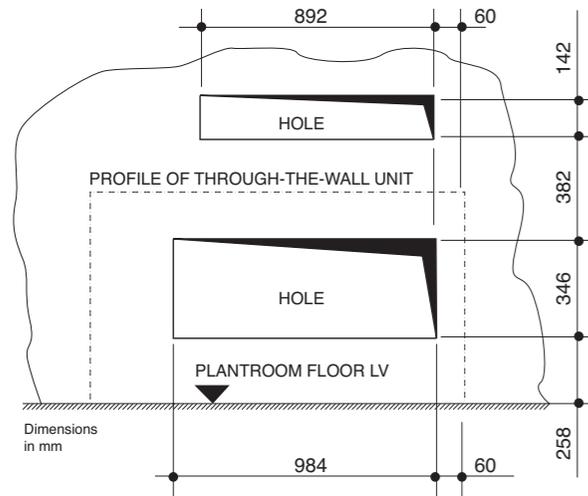
Models with LPHW air heaters include 1 x separate air stat. Air stat to be connected to external motorized valve (valve and transformer supplied by others)



TECHNICAL SPECIFICATION		DH35AX	DH35AX/L	DH65AX	DH65AX/L	DH35AX/E	DH65AX/E
Dehumidification Capacity	(L/hr)	1.22	1.22	2.0	2.0	1.22	2.0
Dehumidification Capacity	(L/Day)	30	30	50	50	30	50
TOTAL HEAT TO AIR							
Dehumidifier Only (heat recovery)	kW	2	2	3.3	3.3	2	3.3
LPHW Air Heating	kW	n/a	3.8	n/a	7.5	n/a	n/a
Electric Heat Output	kW	n/a	n/a	n/a	n/a	2	3.5
Air Flow Rate	m ³ /hr	500	500	800	800	500	800
Total LPHW/Elec + Heat Recovery	kW	n/a	5	n/a	11.7	4	6.9
LPHW Flow Rate	l/min	n/a	5	n/a	11.7	n/a	n/a
LPHW Pressure Drop	m hd	n/a	3.5	n/a	1.8	n/a	n/a
Condensate Drain	mm	16	16	16	16	16	16
Electrical Supply	Volts/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Fuse	Amp	10	10	13	13	20	30
Nominal Running (Amps)	Amp	4	4	4.9	4.9	12.7	20.1
FLA Full Load Amps	Amp	4.6	4.6	5.8	5.8	13.3	21.0
Power Consumed (Nominal)	kW	0.87	0.87	1.08	1.08	2.87	4.58
Compressor LRA	Amp	12.2	12.2	21.6	21.6	12.2	21.6
Noise Level @ 3m	dB (A)	46	46	47	47	46	47
DIMENSIONS FOR WALL MOUNT							
Width (unpacked)	mm	885	885	1306	1306	885	1306
Height (unpacked)	mm	720	720	720	720	720	720
Depth (unpacked)	mm	265	265	265	265	265	265

- LPHW = Low pressure hot water
- Humidistat adjustable from 40% to 80% RH
- Defrost is standard on all models, allowing operation down to 5°C
- These performance figures are based on air at 30°C and 60%
- RH and pool water at 28°C with boiler water at 80°C
- Fuses should be motor rated

Dantherm Monitair Floor Standing and Through The Wall (TTW) Dehumidifier – Air to Air Heat Recovery DH75 and DHI10

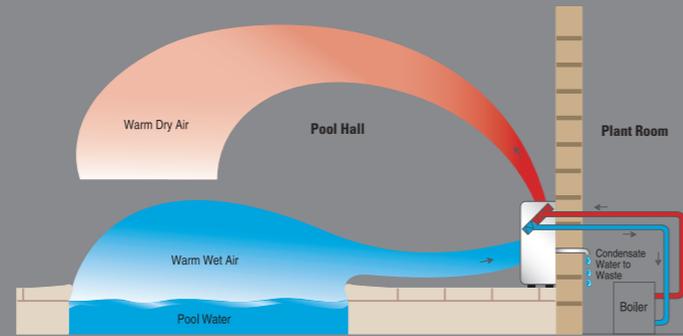


Through-the-wall hole positions (DH75/DHI10 units) (viewed from within the plant room)

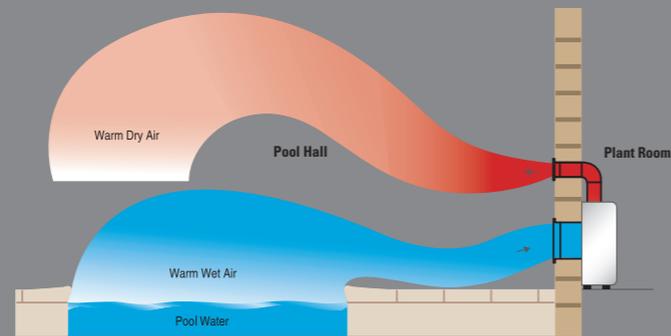


Standard Model (with optional air heating battery)

Note: Units with air heating option are supplied with a separate air thermostat.



Through-the-wall model (75 / 110 units)



TECHNICAL SPECIFICATION		DH75AX & DH75AX/T	DH75AX/L & DH75AX/TL	DHI10AX & DHI10AX/T	DHI10AX/L & DHI10AX/TL
Dehumidification Capacity	(L/hr)	3.6	3.6	4.5	4.5
Dehumidification Capacity	(L/Day)	86.4	86.4	108	108
TOTAL HEAT TO AIR					
Dehumidifier Only (heat recovery)	kW	4.7	4.7	6.4	6.4
LPHW Air Heating	kW	8.9	8.9	8.9	8.9
Electric Heat Output	kW	n/a	n/a	n/a	n/a
Air Flow Rate	m ³ /hr	1180	1180	1180	1180
Total LPHW + Heat Recovery	kW	n/a	11.3	n/a	12.2
LPHW Flow Rate	l/min	n/a	9.6	n/a	9.6
LPHW Pressure Drop	m hd	n/a	2.8	n/a	2.8
Condensate Drain	mm	15	15	15	15
Electrical Supply	Volts/Hz	230/50	230/50	230/50	230/50
Fuse	Amp	13	13	16	16
Nominal Running (Amps)	Amp	6.4	6.4	9.3	9.3
FLA Full Load Amps	Amp	7.8	7.8	10.6	10.6
Power Consumed (Nominal)	kW	1.46	1.46	2.12	2.12
Compressor LRA	Amp	55	55	66	66
Noise Level @ 3m	dB (A)	48.5	48.5	48.5	48.5
DIMENSIONS FOR WALL MOUNT					
Width (unpacked)	mm	1520	1520	1520	1520
Height (unpacked)	mm	796	796	796	796
Depth (unpacked)	mm	385	385	385	385
DIMENSIONS FOR THROUGH WALL MODELS					
Width (unpacked)	mm	1474	1474	1474	1474
Height (unpacked)	mm	1167	1167	1167	1167
Depth (unpacked)	mm	350	350	350	350

*Through-the-wall models include 90Deg duct and grille kit

- Standard models are finished in smooth white coated alloy
- Air heating capacities assume 80°C LPHW supply
- A motorised 3 way valve is built-in to units fitted with air heating facility
- Dehumidification capacities listed assume pool water
- @ 28°C, pool hall air @ 30°C, RH @ 60%

- RH and pool water at 28°C with boiler water at 80°C
- Fuses should be motor rated
- LPHW = Low pressure hot water
- Humidistat adjustable from 20% to 80% RH
- Defrost is standard on all models, allowing operation down to 5°C

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Contact your Certikin stockist for prices and availability.

This literature is intended as a guide.
The company reserves the right to change the specifications without notice.