

**Certikin**  
international ltd



## DEHUMIDIFIERS

- Efficient & Economical
- High Performance, Low Cost
- Automatic Controls
- Rapid Installation
- Low Temperature Operation

**vaporex**

*Humidity control for indoor swimming pools and spas.*

## VAPOREX DEHUMIDIFIERS

### Efficient & Economical

High levels of humidity left unchallenged, can be a major problem in an indoor pool environment. Water evaporating from the pool or spa surface increases air humidity, and can eventually lead to mould or even structural damage or collapse. In the past, the conventional approach to combating high humidity came in the form of wasteful air extraction from the pool hall.

Nowadays, the science of humidity control has moved into another realm. The advanced range of Vaporex dehumidifiers provides an efficient and economical solution.

### High-Performance, Low-cost Units

Vaporex dehumidifiers minimise the need for costly air extraction. Operating on the heat pump principle, these high-performance units re-circulate pool air —removing the moisture content and delivering warm, dry air back to the pool hall.

By working in this way, they maintain a comfortable humidity level, minimise condensation and keep heating costs at the lowest possible level.

### Automatic Control, Assured Comfort

Each Vaporex dehumidifier is equipped with a variable humidistat for automatic control. The recommended humidity level is set between 60% and 65% RH which ensures a comfortable environment.

### Energy & Cost Efficient

As well as minimising heating costs by re-circulating air, the Vaporex heat pump system works on an efficient 3:1 heat / electricity ratio, diverting energy back to the pool hall.



### Rapid Installation, Flexible Operation

The Vaporex units are self contained units that are installer friendly.

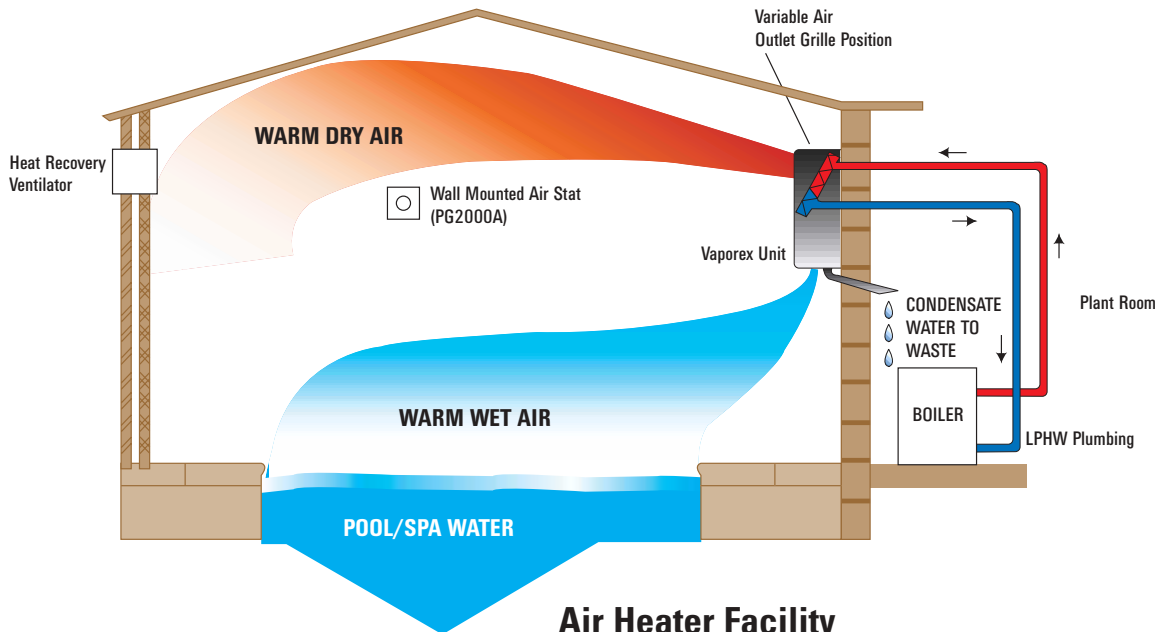
The option of installing at high or low level, through the wall or floor mounted makes the Vaporex versatile in its application.

### Low Temperature Operation

The pool hall construction requires protection when not in use and, for economy reasons, the air temperature might be lowered when unoccupied for long periods.

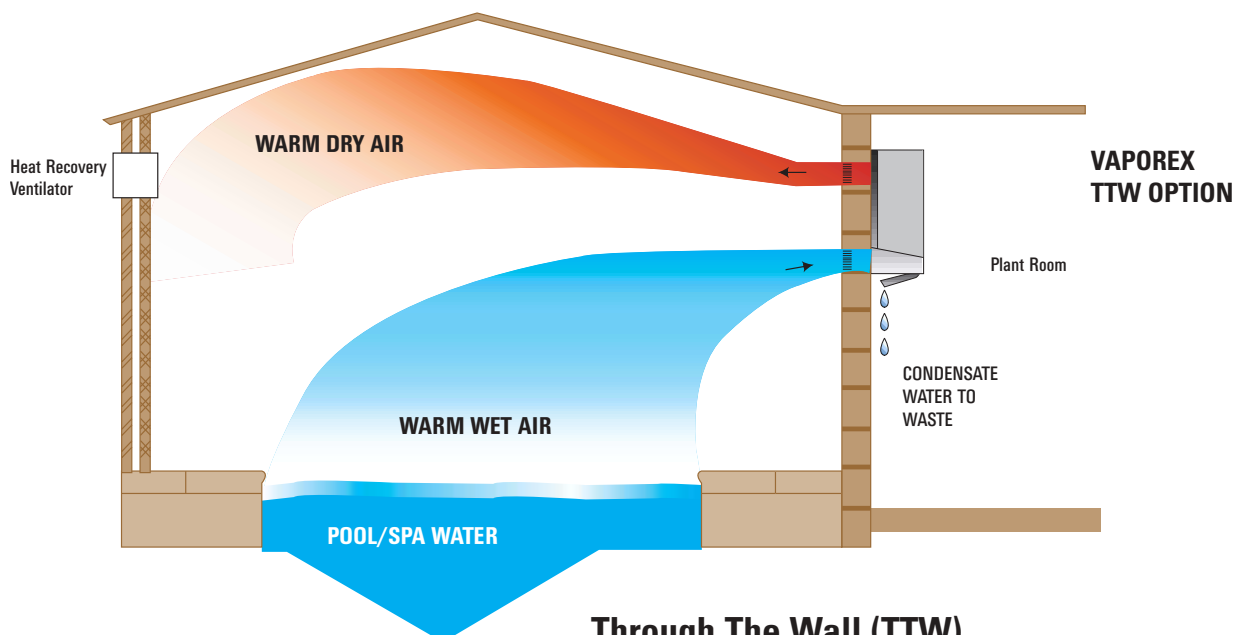
If the pool hall air temperature could drop below 17°C it is strongly advisable to use the defrost version which will operate down to an air temperature of 0°C

## POWERFUL OPTIONS



### Air Heater Facility

Models 33 and 55 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. 3kW heating is available on the 33 model, 5kW on the 55 model. Models with electric heating elements are also available. Model 30 provides 2kW heat and Model 50 provides 4kW of heat. An air thermostat is necessary for all models with air heating facility; One thermostat is included with each new Vaporex with heating facility.



### Through The Wall (TTW)

Where there is a preference to place the dehumidifier in an adjacent plant room, the Vaporex are also available in a TTW variant. Supplied with full wall brackets and decorative grilles for the air ducts, the TTW is a useful option for confined space or particular aesthetic demands. Also available with air heating facility as above.

## TECHNICAL DETAILS

Description	Model	30AP	30AXP	DH33A	DH33AX	DH33TTW	50AP	50AXP	DH55A	DH55AX	
Dehumidification	l/h	1.25	1.25	1.25	1.25	1.25	2.5	2.5	2.5	2.5	2.5
Dehumidification	l/d	30.0	30.0	30.0	30.0	30.0	60.0	60.0	60.0	60.0	60.0
Elect Heat Output	kW	2.0	2.0	n/a	n/a	n/a	4.0	4.0	n/a	n/a	n/a
LPHW Heat Output	kW	n/a	n/a	3.0	3.0	3.0	n/a	n/a	5.0	5.0	5.0
LPHW Flow Rate	l/min	n/a	n/a	5.0	5.0	5.0	n/a	n/a	5.0	5.0	5.0
LPHW Pressure Drop	m hd	n/a	n/a	1.1	1.1	1.1	n/a	n/a	1.8	1.8	1.8
Pipe Connections LPHW	mm	n/a	n/a	15	15	15	n/a	n/a	15	15	15
Condensate Drain	mm	15	15	15	15	15	15	15	15	15	15
Electrical Supply	← 240 Volts / 50 Hz →										
Fuse	AMP	20.0	20.0	10.0	10.0	10.0	32.0	32.0	13.0	13.0	13.0
Nominal Running	AMP	12.1	12.1	3.4	3.4	3.4	23.0	23.0	5.6	5.6	5.6
Power Consumed	kW	2.8	2.8	0.75	0.75	0.75	5.3	5.3	1.2	1.2	1.2
Compressor LRA	AMP	15.8	15.8	15.8	15.8	15.8	30.0	30.0	30.0	30.0	30.0
Noise Level @ 3m	dB(A)	52	52	48	48	46	54	54	48	48	47
<b>Dimensions:</b>											
Width	mm	780	780	780	780	875	1245	1245	1245	1245	1300
Depth	mm	250	250	250	250	290	250	250	250	250	290
Height	mm	655	655	653	653	745	655	655	653	653	745
Weight	kg	40	40	40	40	48	60	60	60	60	70

- LPHW = Low pressure hot water
- Humidistat adjustable from 20% to 80% RH.
- Minimum air temperature on standard models is 15 degrees C, the defrost models will operate down to 0 degrees C.
- Fuses should be motor rated.
- TTW models are supplied with inlet and outlet grilles. (C/W sleeves)
- These performance figures are based on air at 30 degree C and 60% RH and pool water at 28 degree C with boiler water at 80 degree C.
- Vaporex units are covered by a full two year parts and labour warranty.
- All Vaporex units are R407C ozone friendly refrigerant
- Manufactured in the UK.

If you should require further technical information please do not hesitate to contact us.

