

calorex

Certikin
brings water to life

Variheat Series 3 Air Handling Equipment



**A dehumidification and ventilation system
with dynamic energy recovery to
swimming pool water and air**

VARIHEAT SERIES 3

The Variheat Series 3 is an advanced environmental control system designed specifically to control indoor pool hall environments and water conditions. This unique range of equipment maximises energy efficiency to ensure running costs are kept to an absolute minimum. Relax, enjoy your pool, while the Variheat takes control of the environment.



Green & Efficient

Moisture is the enemy of indoor pools, potentially damaging buildings and decoration. It causes unsightly mould growth, and is damaging to health. Variheat's energy efficient heat pumps dry the pool hall without dragging in huge volumes of outside air. Using an ultra-modern heat pump and low energy fans, moisture is stripped out of the air without wasting energy. Heat which is thrown away by old fashioned fresh air systems, is recycled by the Variheat 'clever' controls into the pool water and air.

Ensuring the boiler is kept off for longer reduces your carbon foot print, is good for the planet as well as your pocket.

Preventing overheating

When solar gains cause overheating, the Variheat's optional cooling module responds instantly to bring down air temperature using 'free

cooling'. Both the air temperature and humidity are reduced without drawing heat from a boiler.

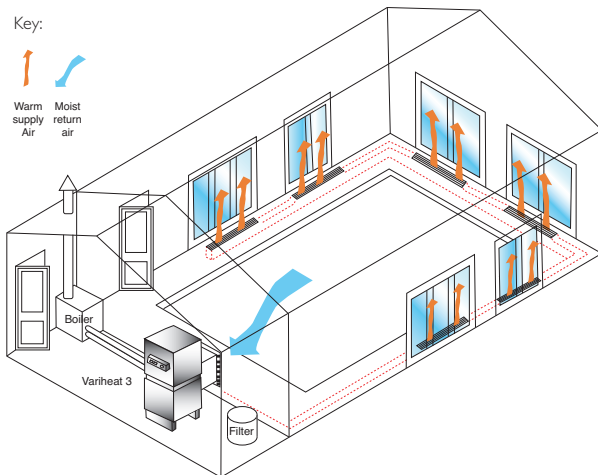
A summer switch allows all heating to be directed to the water alone. This prevents the boiler uselessly heating the outside air when doors or windows are open.

Why Calorex

Calorex is a world class manufacturer of swimming pool heat pumps and dehumidifiers. With almost 40 years of innovation, our quality and reliability are unrivalled. British designed and manufactured, Calorex products are exported to over 60 countries, making it a truly global brand.

Typical installation

Key:



Total environment control

At times of high heat loss from the building, Variheat's powerful air and water heaters automatically supplements the recovered energy. This ensures that optimal air and water temperatures are maintained at all times. The integral controls are designed so that the maximum use of recycled energy is made before asking for heat from an external boiler or heat source.

State of the art fans

Variheat's powerful variable speed fans are at the cutting edge of fan technology. The exhaust fan is arranged operate only when the fresh air cooling module demands it. This is automatically adjusted so that exactly the right air flow is introduced, regardless of the resistance of the ductwork. Likewise, the main heating and dehumidification fan recirculates the optimum air flow, automatically. This ensures that

the power consumption is minimised and never moves more air than is absolutely necessary to heat, cool and dehumidify the pool hall. The variable speed fans are quiet in operation, and prevent the booming noise that is prevalent in systems moving too much air.

Modular design

The modular design concept allows maximum flexibility. With inlets and outlets wherever you need them, there is never a problem fitting them into the tightest of plant rooms. Horizontal units to fit spaces with no head room, vertical units to minimise floor space with top, side or bottom outlets; there are literally thousands of configurations making easy work of even the most complex plant spaces. Control panels can be conveniently mounted on the Variheat or supplied with up to 20m of cable for remote mounting.

Service & back up

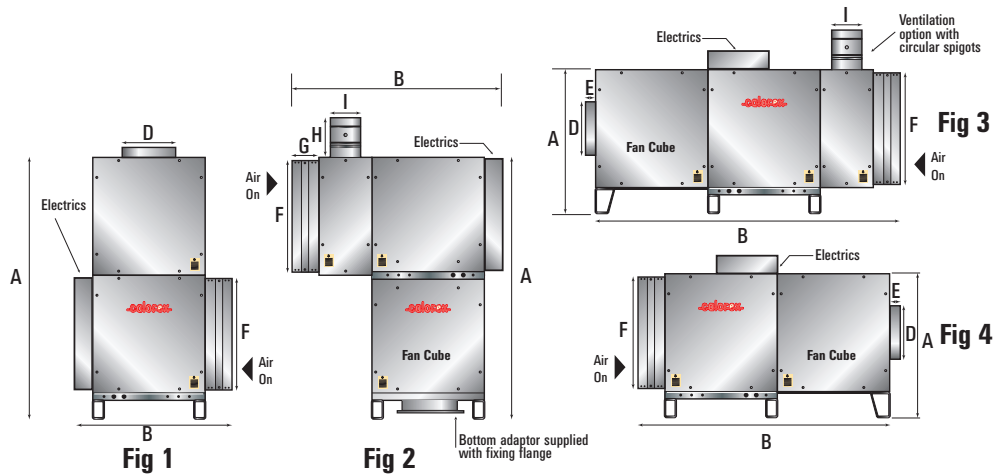
Calorex's network of service agents cover the country, with an engineer always close to you. Rapid response to service calls by trained engineers and full on-site service agreements are available to ensure that your pool hall heating and environment control always run at the peak of their efficiency.

For free design advice, please contact Certikin, the exclusive UK agent for Calorex pool equipment on 01993 777200 or email enquiries@certikin.co.uk



MODEL	AW600VH	AA600VH	AW900VH	AA900VH	AW1200VH	AA1200VH	AW1500VH	AA1500VH
DEHUMIDIFICATION								
30°C 60%RH - l/hr	4.6	4.6	6.5	6.5	8.5	8.5	10.1	10.1
AIRFLOW								
Main fan airflow - M ³ /hr	2000	2000	2500	2500	3500	3500	4300	4300
Fresh air module - M ³ /hr	900	900	900	900	900	900	900	900
HEAT TO AIR (kW)								
Energy recovery from heat pump (Mode B)	5.1	5.1	7.1	7.1	10	10	14	14
Via LPHW @ 82°C	11	11	13.5	13.5	24	24	28	28
Max available (Mode B + LPHW)	14	14	18.6	18.6	30	30	36	36
HEAT TO WATER (kW)								
Energy recovery from heat pump (Mode A)	5.5	0	7.4	0	10	0	12.5	0
Via LPHW @ 82°C	18	0	30	0	30	0	40	0
Max available (Mode A + LPHW)	23.5	0	37.4	0	40	0	52.5	0
ELECTRICAL DATA (AMPS)								
Supply / Fuse 1 Phase 240v / 50hz	20	20	30	30	40	40	-	-
Supply / Fuse 3 Phase 415v / 50hz	16	16	16	16	25	25	20	20
Total Power Consumed (kW)	2.1	2.1	2.8	2.8	3.6	3.6	5.1	5.1
Recommended Boiler Capacity (kW)	29	11	44	13.5	54	24	66	28

12 month warranty



	Model 600 / 900			Model 1200 / 1500			Spigot Ref	VSD600 / 900	VSD1200 / 1500
	Length (B)	Width (C)	Height (A)	Length (B)	Width (C)	Height (A)			
Fig 1	957mm	698mm	1514mm	1059mm	800mm	1718mm	Air On spigot size (mm)	662 High x 615 Wide	786 High x 692 Wide
Fig 2	1310mm	698mm	1530mm	1412mm	800mm	1734mm	Air Off (Top or Side) spigot	289mm x 333mm	289mm x 333mm
Fig 3	1869mm	698mm	838mm	2073mm	800mm	940mm			
Fig 4	1514mm	698mm	838mm	1718mm	800mm	940mm			

Dimensions / profiles vary for models with Electric Air heating and/or refrigerant cooling modifications. Width of each model is scheduled as dimension (C) above.

Notes

- Five 'Air-Off' outlet options are available per Variheat. The outlet can be positioned on any external face of the fan cube.
- Bottom outlet versions, for 'Air-Off' to underfloor ductwork, are supplied complete with bridging sleeve and floor fixing flange.
- Plumbing connections, where applicable, are available on either side of the Variheat.
- Any of the Variheat units in this range of equipment can be supplied with or without a fresh air cooling module.
- The pair of ventilation spigots can be positioned on the top of the fresh air cooling module, or on either of the two vertical sides.

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

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