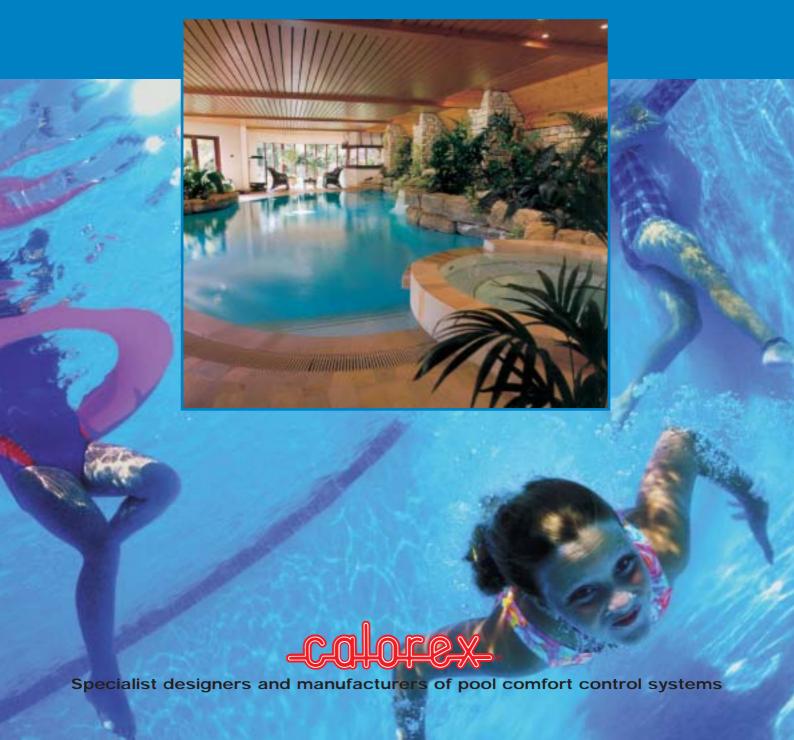
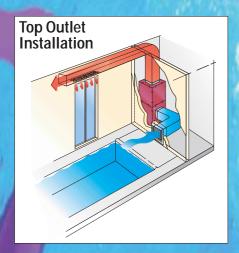
Variheat System

dehumidification, heat recovery and ventilation system designed for all indoor pools

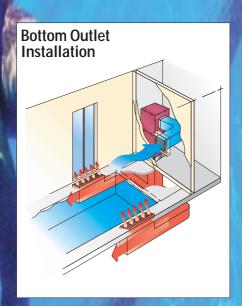


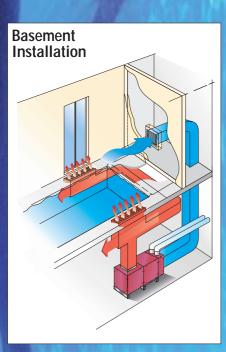


Environmental Control

An indoor pool is such fun to own and use when you know that the comfort and economy of the pool environment are under the safe control of Calorex. While you swim, the innovative Variheat takes care of heating, humidity control, ventilation and energy recovery.

Calorex Variheat-The perfect





Why Calorex

Calorex is the Worlds leading manufacturer of swimming pool heat pumps and is renowned for its innovation, range and quality of product - a proud claim, backed by over twenty years of design, manufacture and operational experience with thousands of units operating in over 30 countries worldwide.

The brains of your pool environment

Variheat controls the operation of the boiler and combines it with a highly efficient heat pump dehumidifier to provide air and water heating, humidity control, ventilation and energy recovery.

Humidity control

In contrast to most buildings, indoor swimming pools constantly evaporate large volumes of moisture into the space around them. Unless this moisture is removed, humidity will rise creating an uncomfortable environment and structural/fabric damage. Totally self controlling, the Variheat will remove this moisture and recover energy from it which is then re-used to assist water and air heating. By utilising this method, a heat cycle is created and energy costs are kept to a minimum.

Pool Water and Air Heating

A majority of the heating needs are provided by heat recovery from the dehumidification process. Heat losses that cannot be recovered are replaced

Our product is our reputation. It's the best.

using inbuilt heat exchangers which are connected to a hot water supply from a boiler. Control is fully automatic once customer preferences have been set up. A time clock permits reduction of pool air temperature to reduce heating cost when the pool cover is in place – Variheat can operate as low as +10C to allow real energy savings.

Ventilation

Variheat silently circulates heated air throughout the pool hall to ensure an even temperature and control of humidity/ condensation. For additional comfort and control of airborne chemicals a fresh air option

locate on the
Variheat or at a convenient
position up to 20m from the unit. When
the pool cover is in place, energy saving from air
temperature reduction can be achieved automatically
by the control link to the pool cover system.
Alternatively, a "poolside" remote panel complete
with sensors, enabling the user to conveniently view
the temperature and humidity conditions as well as
the machine status.

partner for your indoor pool

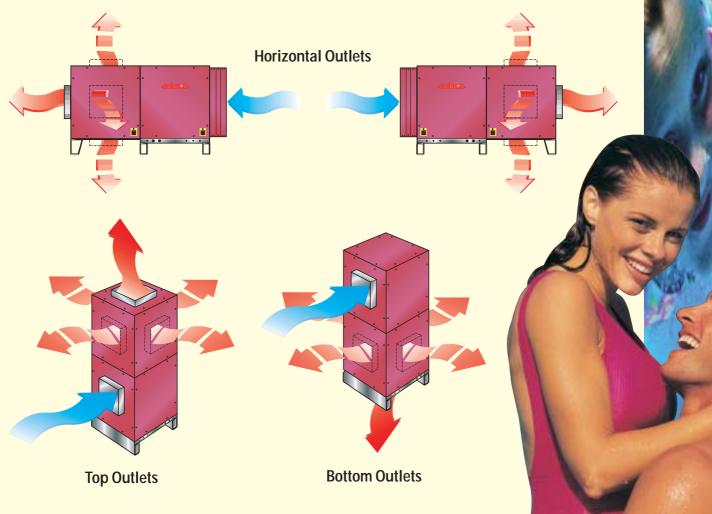
is available, having the additional advantage of creating a slight negative pressure in the pool hall to prevent migration of pool air to adjacent rooms.

Controls

Variheat is complete with easy to read and readily adjustable humidistat, thermostats and time clock together with all diagnostic and operational indicators, conveniently mounted in a compact multi-position 12volt panel which the installer can

Configuration and installation

Variheat is exceptionally compact and easy to configure to suit customer and building requirements. Up draught, downdraught, horizontal airflows, 90 degree turns and left/right handing are all easily achieved from the standard Variheat, ducting requirements being minimised. Where no connection to the filtration circuit is required, Variheat can be supplied without water heat exchanger. Remote condensing units can be fitted to all models.



CALOREX VARIHEAT 3 DEHUMIDIFICATION/HEAT RECOVERY/VENTILATION UNITS FOR INDOOR POOLS. MULTI CONFIGURATION WITH UP, DOWN OR HORIZONTAL AIRFLOWS. HEAT RECOVERY TO AIR/WATER OR AIR ONLY

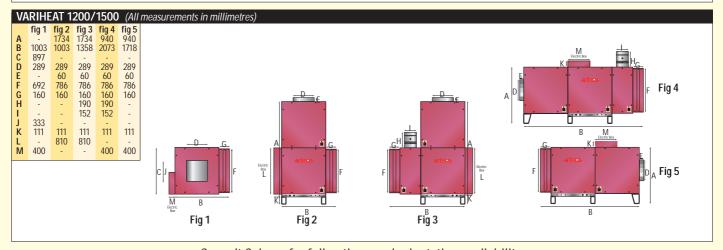
Model		AW600VH	AA600VH	AW900VH	AA900VH	AW1200VH	AA1200VH	AW1500VH	AA1500VH
DEHUMIDIFICATION 30C 60%RH 30C 70%RH	l/hr l/hr	4.6 5.5	4.6 5.5	6.5 7.8	6.5 7.8	8.5 10.8	8.5 10.8	10.5 13.2	10.5 13.2
AIRFLOW Main fan airflow External available static Fresh airflow(option) External available static	m³/hr Pa m³/hr Pa	2000 230 150 20	2000 230 150 20	2500 230 200 20	2500 230 200 20	3500 180 250 20	3500 180 250 20	4230 240 300 20	4230 240 300 20
HEAT TO AIR Net via heat pump(Mode B) Via LPHW @ 80C Max available(Mode B + LPHW) Pool water flow/head	kW L/M/Mhd	5.1 11 14 30/3.5	5.1 11 14 -	7.1 13.5 18.6 32/3.5	7.1 13.5 18.6	10 24 30 33/3.5	10 24 30	14 28 36 40/3.5	14 28 36
HEAT TO WATER Net via heat pump(Mode A) Via LPHW @ 80C Max available(Mode A + LPHW)	kW	5.5 18 23.5	0 0 0	7.4 30 37.4	0 0 0	10 30 40	0 0 0	12.5 40 52.5	0 0 0
ELECTRICAL DATA Supply/Fuse 1 phase 230v 50hz Supply/fuse 3 phase 400v 50hz	Amps	20 10	20 10	30 15	30 15	35 10	35 10	N/A 20	N/A 20
POWER INPUT	kW	2.5	2.5	3.3	3.3	4	4	5.6	5.6
RECOMMENDED BOILER CAPACITY kW/btu		29/100000	11/37500	44/150000	13.5/46000	54/184250	24/81900	68/232000	28/95500
BOILER FLOW RATE / HEAD	L/m/mhd	25/6.3	10/6.3	32/6.3	10/6.3	42/6.3	22/6.3	52/6.3	22/6.3

AW denotes heat recovery to air /water and LPHW batteries for air/water. AA denotes heat recovery to air and airside LPHW battery only. All units with X defrost - air temperature range +5C to 40C. NOTE -

OPTIONS- • Fresh air module • Electric resistance air heaters (6/12/18kW).

RS485 themostat • Remote condensing unit
 Low speed fan
 Poolside control panel

VARIHEAT 600/900 (All measurements in millimetres, fig 2 1514 **fig 3 fig 4** 1514 838 fig 5 838 fig 1 A B C D E F G H I J K 900 900 1254 1869 698 289 60 289 289 289 60 60 60 660 160 190 660 660 Fig 4 160 160 160 160 190 152 152 333 111 111 111 111 111 M L M 650 650 345 345 345 Box L A Fig 5 Fig 3 Fig 2 Fig 1

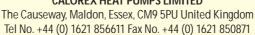


Consult Calorex for full options and orientation availability









e.mail: sales@calorex.com web: www.calorex.com





