

Agam

AGAM ENERGY SYSTEMS LTD.

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VLHC Dehumidifier for Heated Indoor Swimming Pool and Spa Halls

Environmentally-friendly, energy-conserving dehumidification and heating for increased comfort and hygiene.

Maintaining a controlled level of humidity in pool and spa halls is key to both comfort and hygiene. High humidity levels in such enclosed spaces result in unpleasant surface condensation, higher instances of bacteria and fungi problems, and bather discomfort.

Traditional heating and dehumidification solutions are energy-intensive and expensive, relying primarily on ventilation to dehumidify the hall.

Agam's Ventilated Latent Heat Converter (VLHC) is a revolutionary, patented, field-tested dehumidification system for indoor swimming pool and spa halls. VLHC cost-effectively relieves unpleasant high humidity levels, and solves humidity-related health and hygiene problems – making sure that indoor pools are always compliant with health regulations.

The VLHC takes in humid air from inside the pool hall, adding only enough fresh air to remove chlorine and other unwanted smells. The unit converts water vapor into water and heat by blowing the air through a matrix of desiccant-filled elements in a compact cooling tower. This surplus heat is channeled back into the pool hall, and the condensed water vapor is returned to the pool.

Thus, the Agam VLHC efficiently converts the latent heat stored in the water vapor to usable heat - a welcome by-product in cold-climate swimming pool halls – reducing hall heat loss by up to 50%, and dramatically lowering energy consumption.

Agam VLHC Advantages

- Reduces humidity
- Heats pool hall
- Eliminates humidity-related hygiene problems and discomfort
- Cleans and filters air
- Saves 30-50% energy





Model	Condensation Rate l/hr	Dehumidification Capacity (l/hr)	Pool Area (m ²)	Fuel Saving (l/hr)
VLHC 1012	12.5	30	90	1.9
VLHC 1025	25	60	180	3.8

* Pool hall: 29°C (water); 30°C (air); RH=60%. Ambient (outdoors): 10°C; RH=80%.

Heat: 25000 kcal/hr=29kW
 (3m³ water at 85°C)
 Power input: 2 kW
Total input: 31 kW

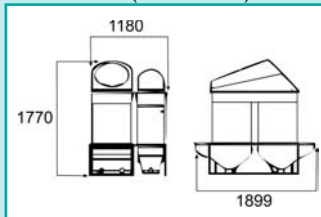
Input



Output

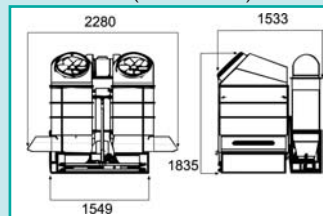
Total output: 66kW
Input: 31kW
Surplus: 35 kW

VLHC 1012 (12 litres/hr)



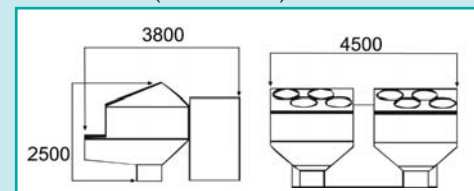
Weight: 150 Kg

VLHC 1025 (25 litres/hr)



Weight: 350 Kg

VLHC 10125 (125 litres/hr)



Weight: 1200 Kg

Dimensions: mm

About Agam Energy Systems

Founded in 1998 by industry veterans, Agam develops and produces innovative, energy-conserving and environmentally-friendly cooling, heating and dehumidification systems. Agam's solutions serve the needs of the industrial, recreational and agricultural sectors, including greenhouses, hospitals, indoor swimming pools and spas. Based on patented heat-exchange technology, Agam's products are highly cost-effective and field proven, often saving more than 70% of energy expenses.

for more information contact:

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