

<b>Contact name :</b>		
<b>Company :</b>		
<b>Project Title / Ref:</b>		<b>P9871c</b>

**Equipment Selection :**

<b>Model :</b>	<b>Orion</b>	<b>100</b>	<b>Super Plus</b>
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**To provide :**

Dehumidification	-	By dehumidifying heat pump
Heat recovery	-	To air by active dehumidifying heat pump
Air heating	-	By integral LTHW heating coil
Water heating	-	By integral LTHW heat exchanger coil
Fresh air	-	Not included
Air cooling	-	Not Included
Ducting required	-	Suck and blow flexi-duct kit

**Project Design Criteria :**

Av. Relative Humidity :	65 %
Pool Hall Air temperature :	30.0 °C
Pool water surface area :	26 m <sup>2</sup>
Pool water temperature :	29.0 °C
Uncovered Hrs. Norm/Max :	4 / 12
'In use' Hrs. Norm/Max :	2 / 4
No spa included	

**Structural details :**

	Areas :	U-value W/m <sup>2</sup> /°K
Exterior walls :	62.4 m <sup>2</sup>	0.45
Exterior wall glass :	10.6 m <sup>2</sup>	2.80
Interior walls :	12.0 m <sup>2</sup>	0.30
Roof / ceiling :	89.2 m <sup>2</sup>	0.40
Floor :	37.3 m <sup>2</sup>	0.40
Pool Hall Volume :	235 m <sup>3</sup>	

**Prob. annual H&V costs (Gas) :**

Heating & ventilation :	£
Energy consump. kWh :	<b>24,702</b>

**Dimensions of selected unit :**

L / W / H (mm) :	625 / 745 / 1590
Weight (approx) :	112 kg

**Unit Performance data :**

Dehum via heatpump :	4.1 L/Hr.
Supply airflow :	1500 M <sup>3</sup> /Hr.
External resistance :	150 Pa
Air heating coil :	18 kW (LTHW)
Pool Heat Exchanger :	20 kW (LTHW)
Integral controls type :	Analogue Mechanical.

**Installation services required :**

Electrical supply options :	
Single phase :	230v / 50Hz 22 Amps
Three phase :	Not available
Boiler pump :	UPS 15-60 82 / 71
Total Boiler duty :	KW / BTU 20 / 69,000
LTHW pipes :	28 mm flow and return
Pool Water :	1.5 inch flow and return
Condensate :	22 mm PVC

<b>Price</b>	<b>£ 9,720</b>	inc VAT	<b>DELIVERY COST :</b>	<b>£196</b>
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