

PROJECT ANALYSIS SUMMARY

Contact:	Nigel	T 0844 8806 749	E nigel@heatpumps4pools.com
Company:	Heatpumps4pools		18-09-17
Project Title / Ref:			P28596

Selection :	XF	1000 Super	Plus
Description :	<i>Packaged Total Environmental Control unit purpose designed for indoor pool application Fresh air Heat Recovery Ventilation (HRV) system with heat recuperator Single speed direct drive, forward curved, format air fan Full rate fresh air ventilation capability Complete heating of room air and pool water via integral heat emitters Plant room located - central ventilation principle with air ducting channels</i>		

Provisions :	✓	Condenser boiler temperatures compensated
Humidity control	✓	By mechanical ventilation utilising ambient fresh air
Energy recycling	✗	Not included
Heat recovery	✓	From expelled room air using 'Cross Flow' heat recuperator (permanent)
Room Air heating	✓	By integral multi-row LTHW heating coil
Pool Water heating	✓	By integral LTHW high capacity shell & tube heat exchanger coil
Fresh air ventilation	✓	Dilution provision & Full rate capability
Room Air cooling	✗	Not included
Controls package	✓	Digital Electronic
Ducting required	✓	Pool air intake, pool air supply, fresh air intake, exhaust air to outside

Design Criteria:		Performance data:	
Pool Room Air temperature:	30 °C	Recirculation Air Flow :	1500 M³/Hr.
Pool water surface area:	50 m²	Exhaust/Fresh Air Flow:	1200 M³/Hr.
Pool water temperature:	29 °C	Air heating coil :	(LTHW) 16 kW
Uncovered Hrs. Norm/Max:	24 / 24	Pool Heat Exchanger :	(LTHW) 25 kW
No spa included		Total Required Boiler duty :	35 kW
Pool Room Space Volume:	235 m³	Min. Flow Temperature :	80 °C
Min. ambient temperature:	-5 °C	Electrical supply options :	
Room structural heat loss:	4.7 kW	Single phase 230v 50Hz :	14 Amps
Fresh air heat loss:	9.8 kW	Three phase 400v 50Hz :	Not available
Air ducting heat loss:	0.9 kW		
Water heat loss:	6.9 kW		

Annual Energy use analysis:		Building regulation compliance :	
Probable Heat & Vent cost:	£ 4,890	Classification of project for regulations :	
Source of heat energy:	Mains Gas	L1B Existing building - Domestic	Actual: L1B Status:
Energy consumption kWh:	140,406	Dry heat extraction from expelled air >70%:	34 Fail
kG CO²:	26,234	Variable speed fan drive included ? :	No N/A

EX WORKS PRICE :	£ 9,360	DELIVERY COST :	£265
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AVAILABILITY : Normally 4-6 weeks from Confirmation of Order & Final Specification

Payment terms : 10% deposit with order. Balance by cheque 7 days before delivery, or bank draft on delivery
 Prices include all discounts, are net ex works, and are subject to VAT at applicable rates.
 This quotation is subject to the terms and conditions of sale of HS Europe Ltd and is valid for 90 days.
 Delivery cost excludes carriage via Hi-ab or timed deliveries.
 Performance ratings are nominal. Annual energy use analysis is indication only and not intended to be binding. E&OE