

PROJECT ANALYSIS SUMMARY

Contact:		
Company:	.	17/11/2009
Project Title / Ref:		P4100B

Selection :	Andromeda FX	1000 Super	Plus	ASHP
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Description :

*Packaged Total Environmental Control unit purpose designed for indoor pool application
Dehumidifying heat pump based system with energy recycling back to room air
Single speed direct drive, forward curved, format air fan
Room air dilution with fresh air facility - negative room air pressure balance
Complete heating of room air and pool water via integral heat emitters
Plant room located - central ventilation principle with air ducting channels*

Provisions :	
	✓ Upgrade available for salt pool application
Humidity control	✓ By Dehumidifying Heat Pump acting upon recirculated room air
Energy recycling	✓ Back to room air via Dehumidifying Heat Pump
Heat recovery	✗ Not included
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 via Fresh air & Exhaust ports (FX)
Room Air cooling	✗ Not included
Controls package	✓ Digital Electronic
Ducting required	✓ Pool air intake, pool air supply, fresh air and exhaust ports

Design Criteria:		Performance data:	
Pool Hall Air temperature:	30 °C	Dehum via heatpump :	4.8 Kg/Hr.
Pool water surface area:	64 m ²	Recirculation Air Flow :	3000 M ³ /Hr.
Pool water temperature:	29 °C	Exhaust/Fresh Air Flow:	300 M ³ /Hr.
Uncovered Hrs. Norm/Max:	2 / 6	Air heating coil : (LTHW)	14 kW
No spa included		Pool Heat Exchanger : (LTHW)	39 kW
Pool Hall Space Volume:	217 m ³	Total required LTHW duty :	39 kW
Min. ambient temperature:	-1 °C	Min. Flow Temperature :	80 °C
Hall structural heat loss:	10.4 kW	Electrical supply options :	
Fresh air heat loss:	3.0 kW	Single phase 230v 50Hz :	25 Amps
		Three phase 400v 50Hz :	Amps/Ph
Water heat loss:	7.8 kW		

Annual Energy use analysis:		Building regulation compliance :	
Probable Heat & Vent cost:	£ 4,150	Classification of project for regulations :	
Source of heat energy:	Air Source Heat Pump	L2B Existing building - non-domestic	Actual: L2B Status:
Energy consumption kWh:	38,584	Dry heat extraction from expelled air >50%:	0 N/A
kG CO ² :	20,241	Variable speed fan drive included ? :	No Fail

EX WORKS PRICE :	£ 16,094	DELIVERY COST :	£185
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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

