

P R O J E C T A N A L Y S I S S U M M A R Y

Contact:	T	F
Company:		04/11/2003
Project Title / Ref:		P11445

Selection : **XF** **500 Super Plus**

Description : *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 hall air and pool water via integral heat emitters
 Plant room located - central ventilation principle with air ducting channels*

Provisions :

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:

Pool Hall Air temperature:	30 °C
Pool water surface area:	22 m ²
Pool water temperature:	29 °C
Uncovered Hrs. Norm/Max:	2 / 6
Spa water surface area:	1.6 m ²
Pool Hall Space Volume:	207 m ³
Min. ambient temperature:	-5 °C
Hall structural heat loss:	4.0 kW
Fresh air heat loss:	7.7 kW
Water heat loss:	4.0 kW

Performance data:

Recirculation Air Flow :	1400 M ³ /Hr.
Exhaust/Fresh Air Flow:	900 M ³ /Hr.
Air heating coil : (LTHW)	14 kW
Pool Heat Exchanger : (LTHW)	20 kW
Total Required Boiler duty :	20 kW
Min. Flow Temperature :	82 °C
Electrical supply options :	
Single phase 230v 50Hz :	9 Amps
Three phase 400v 50Hz :	Not available

Annual Energy use analysis:

Probable Heat & Vent cost:	£
Source of heat energy:	Mains Gas
Energy consumption kWh:	
kG CO ² :	

Building regulation compliance :

Classification of project for regulations :	
L2B Existing building - non-domestic	Actual: L2B Status:
Dry heat extraction from expelled air >50%:	25 Fail
Variable speed fan drive included ? :	No Fail

EX WORKS PRICE : **£ 10,508** **DELIVERY COST :** **£196**

AVAILABILITY : Normally 4-6 weeks from Confirmation of Order & Final Specification

Payment terms : To be confirmed with AstralPool UK Ltd

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 AstralPool UK Ltd and is valid for 90 days.

Delivery cost excludes carriage via Hi-ab or timed deliveries and is subject to confirmation at time of order.

Performance ratings are nominal. Annual energy use analysis is indication only and not intended to be binding. E&OE