

Designed for Indoor Pools
with Energy Recovery



PoolPac™



**PoolPac™ – Reverse cycle heat recovery
air conditioner for indoor pools**

Up to 6,500 l/s

- 100% Outdoor air ventilation improves IAQ for pool staff and patrons
- Energy efficient air to air counter-flow plate heat exchanger reduces outside air load by up to 80%
- Dilutes harsh chlorine fumes and smells
- Protects building structure from corrosion by eliminating condensation
- Reverse cycle operation for all seasons
- Australian designed and manufactured

www.airchange.com.au



2010 SPLASH!
Environmental
Awards Finalist

PoolPac™ designed for indoor pools

PoolPac™ provides a solution for indoor pools, with an energy efficient heat recovery system to simultaneously ventilate, reduce moisture and condition the air. The unit is constructed with resilient components specially selected to withstand the harsh indoor pool environment.



Multi Award Winning Technology

ARBS Industry Awards "ESD Product" Winner 2010

SEDA "Green Globe" Winner 2002 & 2003

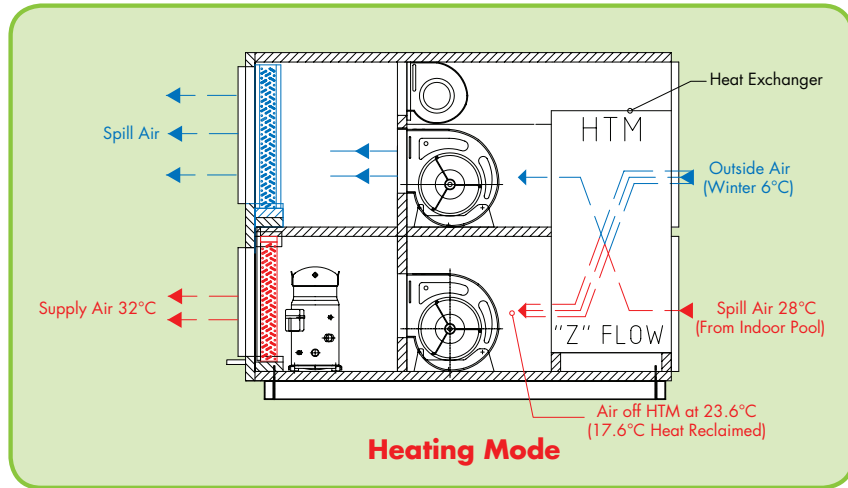
AIRAH "Excellence in HVAC" Winner 2003 (Qld) & 2006 (National)

Indoor pools need fresh air to overcome issues of condensation, corrosion and poor air quality.

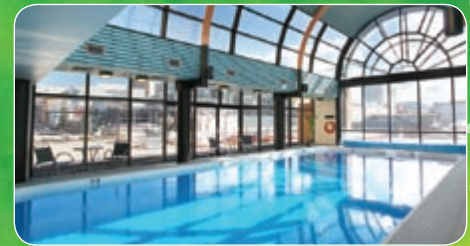
A common problem facing indoor pool operators is that high humidity causes rapid structural deterioration and corrosion. The moist conditions also lead to the growth of moulds, mildew, bacteria and fungi which can severely impact on the health of patrons and staff.

PoolPac Unit (Sensible Heat Exchanger)

80% Efficiency



Tweed Regional Aquatic Centre
 Consultant Floth Sustainable Building Consultants
 Installation L.E.N Enterprises
 Builder Multi Span Australia

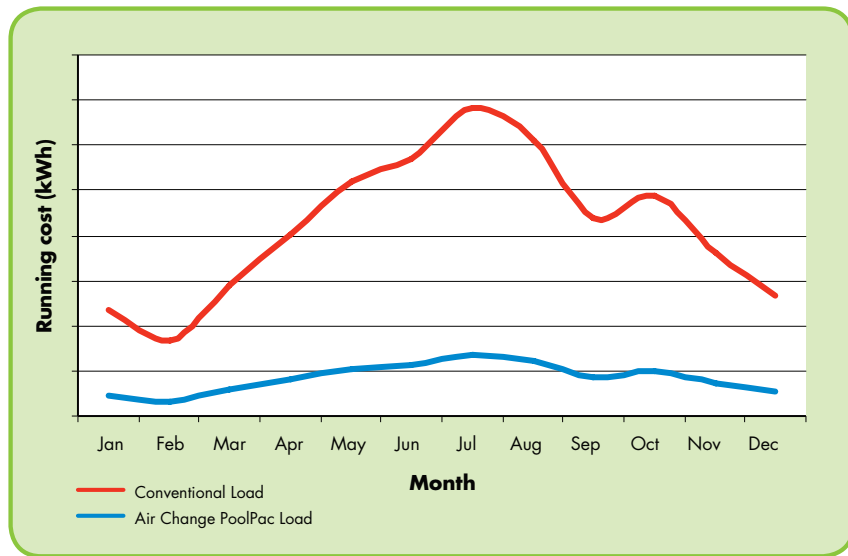


The Hotel Grand Chancellor, Tasmania
 Consultant ASC Engineers
 Installation White & McAllister Pty Ltd



Virgin Active Health Clubs
 Virgin Active is a leading global health club with world class facilities.
 Consultant David Shreeve and Associates

Outside Air Load - Yearly Modeling



Australian Institute of Sport
 AIS leads the development of elite athletes.
 Consultant Acor Consulting
 Installation Climatch (Canberra)



WoofPurnay Veterinary Complex
 A state of the art mega complex in Narre Warren for animals incorporating an indoor hydrotherapy lap pool for dogs.
 Consultant Air Systems Engineering Pty Ltd



100% Outdoor Air PoolPac™ Units

Contact Air Change for full technical specifications. The outside air load varies according to design conditions, so ask our engineering team for assistance on unit sizing.

Model Number		AC PP750	ACPP1000	ACPP1200	ACPP1400	ACPP1700	ACPP2000	ACPP2300	ACPP2800	ACPP3200	ACPP3600	ACPP4200	ACPP5000	ACPP6500	
Supply Air	Flow Rate	750	1000	1200	1400	1700	2000	2300	2800	3200	3600	4200	5000	6500	
	External Static	<150	<200				<300				<350				
Design Conditions		100% Outdoor Air at 5°C / Supply Air at 44°C / Internal 28°C													
Compressor Capacity (kWt)	Heating	20	25	34	40	45	59	68	85	91	107	125	125	125	
	Cooling	16	20	27	32	36	45	52	65	70	82	96	96	96	
Heat Reclaimed Heating (kWt)		17	22	27	31	38	45	51	62	71	80	94	112	145	
Heat Exchanger Energy Savings		47.3%	47.2%	47.2%	47.1%	47.1%	47.1%	47.1%	47.2%	47.2%	47.2%	47.2%	47.2%	47.2%	
Compressor Type		1 x Hermetically Sealed Scroll Compressor					2 x Hermetically Sealed Scroll Compressor								
Refrigerant		R407c													
Fan Type		3 speed 240V	3 Phase Direct Couple Motor/Fan – VSD Controlled												
Volts/ph/Hz		415/3/50													
Construction		50mm sandwich panel, 0.6mm clad Colourbond both sides. UV treated polymer joiners for maximum strength, insulation and durability													
Weight (kg)		340	420	510	550	650	880	940	1400	1430	1470	1600	2100	2500	

Fresh air and Return air filters and filter boxes supplied by installers.

(Specifications subject to change without notice)

PoolPac™ Schematic



PoolPac Dimensions			
Airflow (L/S)	A (Height)	B (Depth)	C (Width)
750	1150	1330	1760
1000	1200	1630	1950
1200-1700	1300	1630	2200
2000-2300	1850	2350	2250
2800-4200	1965	2350	2900
5000	2210	2350	3550
6500	2070	2350	4200



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Refrigerant Trading Authorisation No: AU23586
Air Change products internationally patent protected.