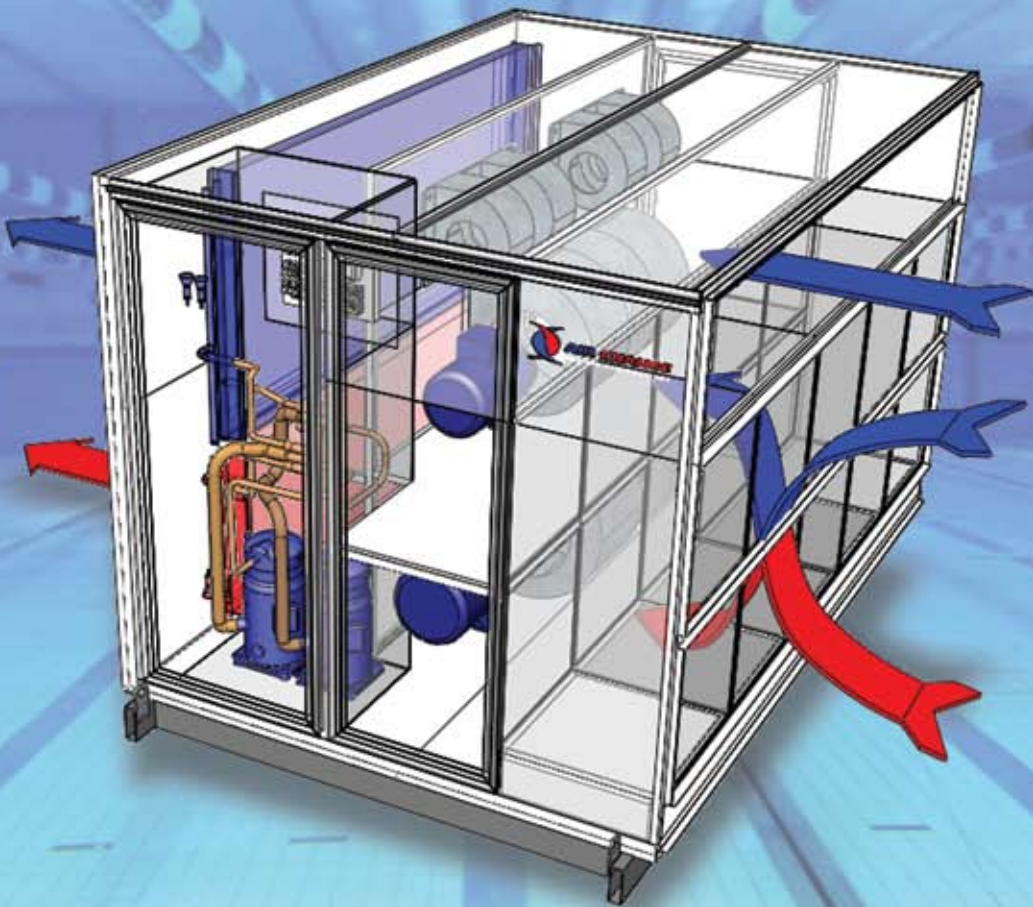




New generation HVAC for a sustainable future



PoolPac™



PoolPac™ - Reverse Cycle Packaged Ventilation & Air Conditioning Unit

Up to 6,500 ℓ/s

- Prevents condensation prolonging the life of the building
- 100% outdoor air expels harmful chlorine fumes improving Indoor Air Quality
- Non corrosive patented Heat Exchanger reduces outside Air Load by 80%
- Reverse cycle operation for all seasons

PoolPac™ designed for indoor heated pools

Indoor pools need careful design 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. When the chlorine reacts with the condensed water, it forms hydrochloric acid which will accelerate these corrosive affects. The moist conditions also lead to the growth of moulds, mildew, bacteria and fungi which impacts on the health of patrons and staff.

PoolPac™ is designed for indoor pools, with an energy efficient heat recovery system to simultaneously ventilate, remove moisture and condition the air. The unit is constructed of corrosion resistant components that are specially selected for the harsh indoor pool environment, and the inbuilt heat recovery system has no moving parts for continuous reliability.



Exhaust air fans and motors directly coupled for energy savings, lower noise and reduced service calls. Fans and motors powdercoated with stainless steel shafts



Pre conditioned outdoor air prevents condensation and improves air quality



Drain tray running the length of non corrosive sensible heat exchanger for condensate recovery to minimise pool evaporation losses



Easy access electrical enclosure with off the shelf components



PoolPac™ Colorbond sandwich panel cabinet and internal components treated against corrosion



Variable Speed Drives control fan speeds, reduce commissioning time and provide additional electronic protection for fans and motors.



De-super heater option for free hot water heating



Hot gas de-ice solenoid (centre) pipe support (top right)



Sump heater on compressor for reliable cold morning starts

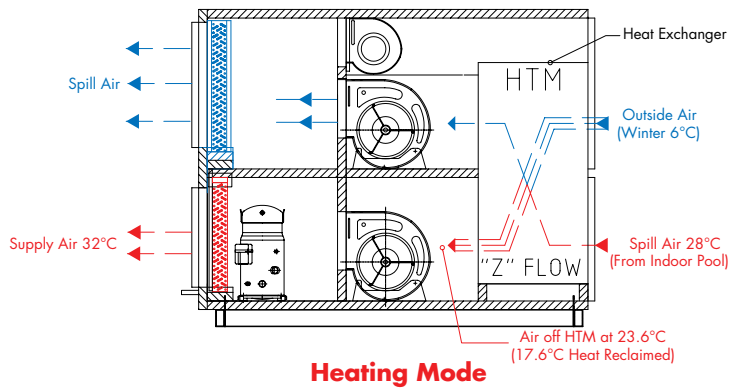
Internationally Patented, Registered Trade Mark



Multi Award Winning Technology
 SEDA "Green Globe" Winner 2002 & 2003
 AIRAH "Excellence in HVAC" Winner 2003 (Qld) & 2006 (National)

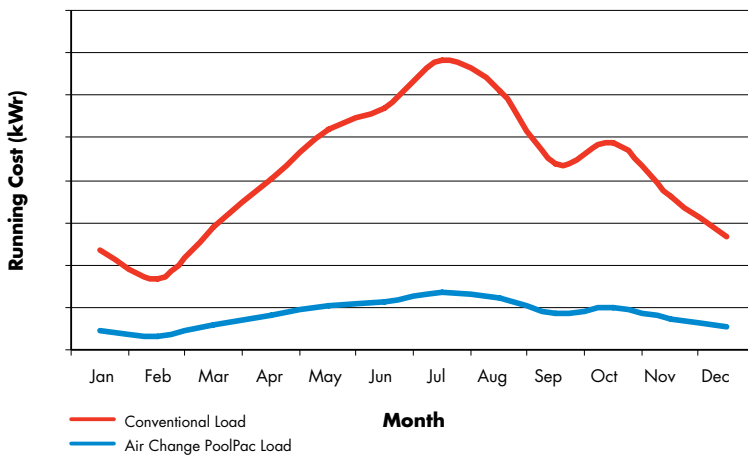
PoolPac Unit (Sensible Heat Exchanger)

80% Efficiency



Outside Air Load - Yearly Modelling

Sydney Conditions



Examples of Indoor Pool Installations



St Kevin's College

A Catholic school for boys - founded in 1918
Consultant BRT Consulting Engineers
Installation Allcare Air Conditioning



Australian Institute of Sport

AIS leads the development of elite athletes.
Consultant Acor Consulting
Installation Climatech (Canberra)



Ryde Aquatic Leisure Centre

Community Aquatic Centre upgraded with Air Change PoolPac Units
Installation Advanced Mechanical Systems



WoolfPurNay Veterinary Complex

A state of the art, mega complex for animals incorporating an indoor Hydrotherapy Dog Pool.
Consultant Air Systems Engineering Pty Ltd

Indoor Pool Installations

- Capitol Hotel - ACT
- Kings Swim - Macgregor ACT
- Blacktown Leisure Centre - NSW
- Bomaderry Aquatic Centre - NSW
- Carlisle Swimming Centres: Carlingford /Cherrybrook/Killarney - NSW
- Castle Hill RSL Club (C2K) - NSW
- Cook & Phillip Park - NSW
- Dubbo RSL Club - NSW
- Enfield Aquatic Centre - NSW
- Goonellabah Sports & Aquatic Centre - NSW
- Great Lakes Aquatic Centre - NSW
- Jackson's Landing - NSW
- Kings Swim - Campbelltown - NSW
- Lifestyle Manor M1 - NSW
- Mounties - NSW
- McKeon's Swim Centre - NSW
- Narooma Pool - NSW
- Oakhill College - NSW
- Phoenix Sports Club - Newcastle NSW
- Port Macquarie Indoor Pool - NSW
- Presbyterian Ladies College - NSW
- Quarterdeck Club - NSW
- Regent Place - NSW
- Rhodes Corporate Park - NSW
- St Ignatius College, Riverview - NSW
- Springwood Aquatic & Fitness Centre - NSW
- St Mary's Hydrotherapy Pool - NSW
- St George School - NSW
- Sydney Private Hospital - NSW
- Trinity College, Lismore - NSW
- University of Sydney - NSW
- Waterbrook - NSW
- Dolphins Aquatic Centre -QLD
- Kawana Community Centre -QLD
- Mt Gravatt East Pool - QLD
- Murwillumbah Pool - QLD
- Novotel, Twin Waters - QLD
- Redcliffe Aquatic Centre - QLD
- Runcorn Pool - QLD
- The Sun Spa, Coolum - QLD
- Mile End Hydrotherapy Pool - SA
- Launceston Aquatic Centre - TAS
- Nixon Street School - TAS
- Balgownie Estate - VIC
- Cranbourne Aquatic Centre -VIC
- Dinner Plain Day Spa Complex - VIC
- Kings Swim - Chirnside Park - VIC
- Sale Aquatic Centre - VIC
- St Michael's Collegiate Pool - VIC
- Atwell School - WA
- Success Primary School - WA
- Jellie Park Aqualand - NZ

See www.air-change.com for more installations

Other Air Change equipment for indoor pools:

- Pool Air Handling Units
- Heat Recovery Ventilators



Featured in the
 Australian Technology Showcase



Proudly Australian Made
 and Internationally Patented



green building council australia
 Member

100% Outdoor Air PoolPac Units

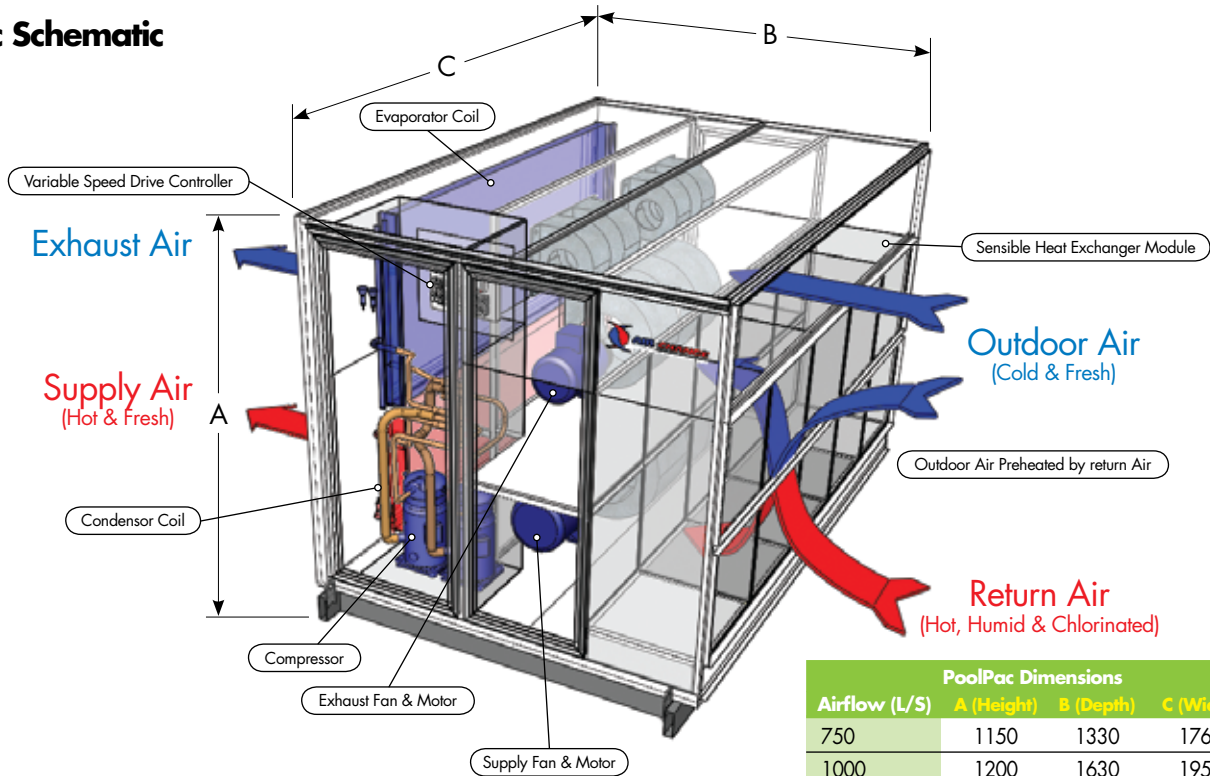
Contact Air Change for full technical specifications. The outside air load varies according to design conditions, so ask our engineering team for assistance on unit sizing.

Model Number		AC PP750	AC PP1000	AC PP1200	AC PP1400	AC PP1700	AC PP2000	AC PP2300	AC PP2800	AC PP3200	AC PP3600	AC PP4200	AC PP5000	AC PP6500	
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		R-22 / 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	
Return Air Bypass		50 – 100%													

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



Toll Free 1300 766 704 • www.air-change.com

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Australian Distributors SA/NT/WA 08 8354 0088 NTH QLD 07 4775 5222 TAS 03 6344 6888

International Distributors New Zealand +64 3 343 6184