



ประสบการณ์ในงานปรับอากาศมีมากกว่า 15 ปี

15 YEARS



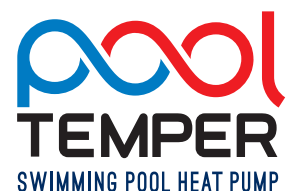
PAC Pooltemper Inverter ***Inverter Swimming Pool Heat Pump***

Keep Your Pool Comfortably Warm At All Time



ENERGY FRIENDLY
COMFORT

www.pac.co.th/pooltemper



pool
TEMPER
SWIMMING POOL HEAT PUMP

PAC Pooltemper Inverter

What is the perfect Pool Temperature ?

For Competition, Diving and Practicing **26°C- 28°C**

For Exercise, Adult Swimming Course **27°C- 29°C**

For relaxation **28°C- 30°C**

For Children Swimming Course **29°C- 31°C**

For Children & Baby **30°C- 32°C**

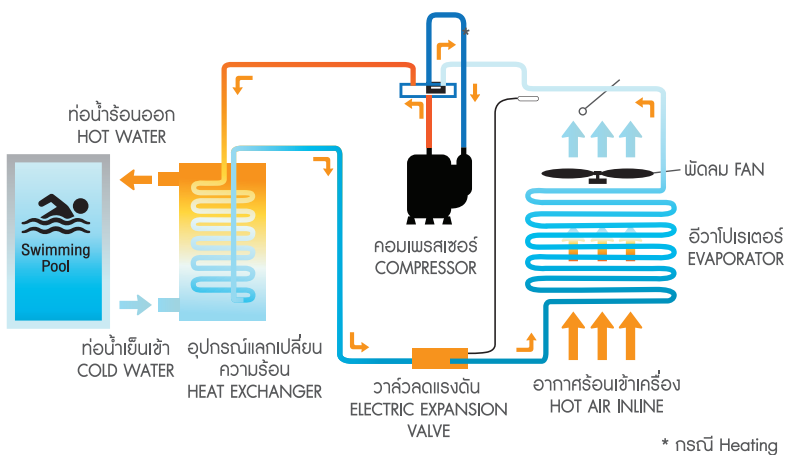
For Aquatic Therapy Hydrotherapy **30°C- 35°C**

For Spa **30°C- 40°C**

** Reference: Pool Water Technical Advisory Group (PWTAG)

PAC Pooltemper Inverter is built with by Heat Pump Inverter System Technology which is less energy consumption. It is more energy saving than the Conventional Heat Pump and most energy saving than Electric Heat Pump. Moreover, PAC Pooltemper Inverter provide much lower noise, more stable temperature adjustment. The most unique of PAC Pooltemper than other is the variation of temperature adjustment since 10 degree to 40 degree which is suitable for the diversity of all requirement such as exercise, hydrotherapy, spa, jacuzzi, etc and keep you truly comfortably and happy.

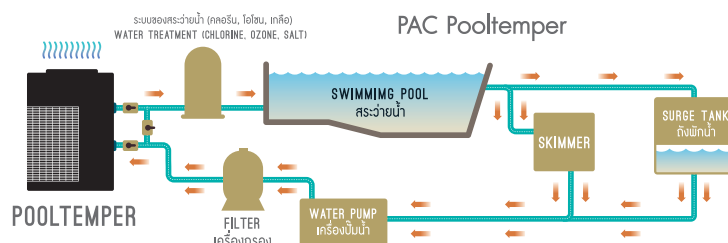
PAC Pooltemper Working Principle



PAC Pooltemper Inverter

PAC Pooltemper Inverter is built with by Heat Pump Inverter System Technology which work similarly to an air conditioning system. It starts from the fan that pulls natural air through an evaporator coil (in heating system). The refrigerant will absorb heat and turn liquid into gas. The refrigerant will be pulled into the compressor. Then the compressor will compress the refrigerant to increase its temperature and will be sent to HEAT EXCHANGER to heat water from swimming pool. The lower temperature and pressure will make the refrigerant changed into liquid, then pass through the expansion valve and evaporator to release the cool temperature out.

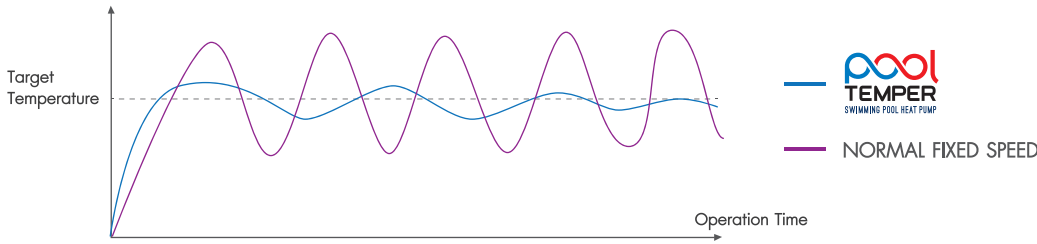
PAC Pooltemper Inverter also adjust pool temperature in cooling mode by the refrigerant direction control device which allow HEAT EXCHANGER to work in the opposite way and provide cool swimming pool as well.



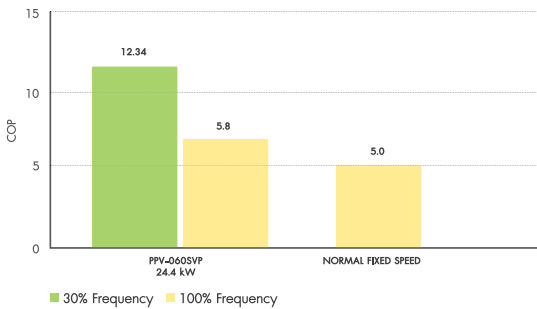
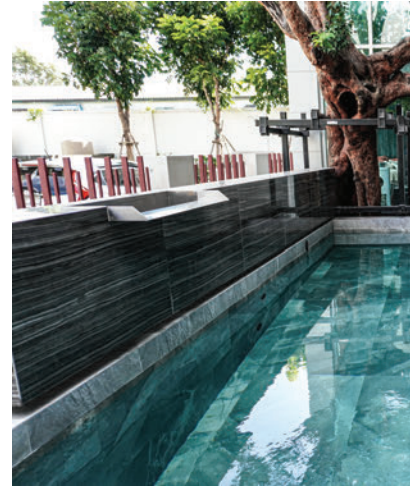
PAC Pooltemper Inverter can be installed in all swimming pool system whether overflow or skimmer and also can be installed with new or existing swimming pool.

PAC Pooltemper Inverter

SAVER Than ever with Full DC Inverter Technology



PAC Pooltemper Inverter will automatically adjust the compressor working round and fan speed. When the swimming pool is reaching the right temperature, Inverter system will reduce compressor working round and fan speed to maintain swimming pool temperature at your comfort level or increasing compressor working round and fan speed when the temperature is dropping without stop working. Therefore, the compressor will consistently work to maintain consistency temperature in



With Full DC Inverter Technology in model 220V/1Ph and 380V/3Ph, PAC Pooltemper Inverter will provide higher COP than Fixed Speed model and can be maximum COP to 12.34 if running at 30% no matter fully or lower workload.



Maximum Coefficient of Performance (COP) up to 12.34



Time Saving for Warming and Cooling Swimming Pool



Much More Saving Energy and Saving Money for Electricity Billing

Special Feature of PAC Pooltemper Inverter



Digital Control Device

The temperature can be accurately adjusted between 10 – 40 degrees to maintain the level that you are the most comfortable with. The device can be installed either on the machine itself or on the wall.



Exclusive Design Blade

Allow higher air circulation and is controlled by DC motor to ensure the minimum noise.



Environmentally Friendly

All models use refrigerant R32 which superior performance and reduced environmental impact. Every single part of PAC Pooltemper Inverter manufactured with high quality material under RoHS standard which is not produced the pollution and safe for environment.



Special Controller Design

PAC Pooltemper Inverter Flow Switch which is more accuracy and faster to check and monitor the temperature from flowing water and it leads to more efficiency temperature adjustment and more erosion protection than conservative control device.



Corrosion Protection Design

Base frame and external panels are made from ABS plastic and galvanized powder coated steel while chassis is treated with epoxy to ensure high corrosion-proof capability.



Double Coil Titanium Heat Exchanger

The best material to prevent corrosion might it be for chlorine, salt, or ozone pool. Safe, durable, and ensures a longer lifespan.



Smart Displayed System

Beautiful and modern display with Smart Color Touch Screen which display the temperature and energy power in graphic for 60 days backdate. Warning when system error including record error status and error date and time for clarified fixing solution.



Protection System

Our product is certified by CE, UL, and other standards. The system has high/ low gas pressure protection, flow switch, phase order protection, voltage protection, overheated protection, and more.

PAC Pooltemper Inverter

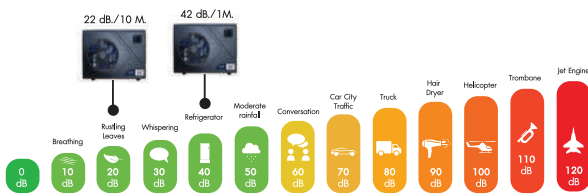


PAC Pooltemper Remote Control System

With the intelligent controller, PAC Pooltemper can be controlled by IOS or Andriod smartphone as well as other devices that are connected to the internet. You can turn it on and off, adjust the setting, or check the system status anywhere and anytime through your smartphone. Fast and Convenient for all lifestyles.



Low Noise Operation



PAC Pooltemper Inverter

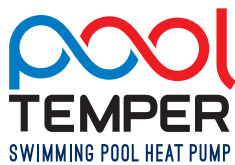
PAC Pooltemper developed 6 main parts for QUIETER



- Close all compressor outlet to reduce noise
- Double cover compressor with noise barrier
- Special design product to lowest noise
- Quiet Fan Motor
- Quiet Fan Blade
- Silent Mode Setting

PAC Pooltemper Inverter has a special design for lowest noise possible while compressor is working, noise will be at only 42 dB(A) in 1 meter which equal to noise from refrigerator and only 22 dB(A) in 10 meter which quiet as leaf falling. There is SILENT Mode setting in advance for quieter and more relaxing.

Why PAC Pooltemper



1

PAC is No.1 leading brand of energy saving pool temper.

15

More than 15 years experiences in Heating and Cooling Temperature Solution.

Site survey, installation design and consult provided by professional engineer.

Professional After Sales Service

Many models provide and serve to all customer requirements.

Complete Parts and Equipment availability. Worry free about fixing, maintenance, and error.



PAC Pooltemper Inverter References

House

- Mr.Pai boon Damrongchaitham
- Mr.Montri Chearavanont
- Mr.Prasan Maleenont
- Mr.Keeree Kanjanapas
- Mr.Danuporn-Suvanant Punnakun Family
- Mr.Burin Boonvisut
- Mr.Natthawut Skidjai
- Mr.Ratchanon – Haru Suprakob
- Mr.Pongsatorn Jongwilas (DJ Phuak)
- Mr.Piyawat Kempetch (DJ PK)

Hotel

- The Peninsula Bangkok
- Sheraton Grande Sukhumvit
- THANN Wellness Destination Ayutthaya
- Kirimaya Golf Resort Spa Khaoyai
- V Villas Hua Hin - M Gallery
- InterContinental Hua Hin Resort
- Smile Lanna Hotel – Chiangmai
- Panviman Chiangmai Spa Resort
- Four Seasons Resort Chiang Mai
- Montis Resort Pai – Maehongsorn
- The Shore at Katathani Resort - Phuket

Condominium

- The Bangkok Thonglor - Bangkok
- 137 Pillars Suites & Residences Bangkok
- The Sky Sukhumvit 49 - Bangkok
- Metro Luxe Kaset – Bangkok
- The Edge Sukhumvit 23 – Bangkok
- The Line Jatujak – Bangkok
- Ideo Mobi Bangsue-Grand Interchange – Bangkok
- Magnolias Ratchadamri Boulevard – Bangkok
- The Riviera Jomtien – Chonburi

School

- Denla Kindergarten, Phetkasem
- Denla Kindergarten, Rama 5
- Norwich International School, Rama 2
- Kids Kingdom International Kindergarten
- The First Steps International Pre-School
- Australian International School Bangkok
- Concordia International School
- VERSO International School
- Kwangtong School - Sukhothai
- Vachiralai School – Chiang Mai
- Vision Swimming Academy Swimming Pool
- Bangkok Swim Academy Sukhumvit 71
- Lanna International School - Chiang Mai

Spa

- SCG Muangthong United Football Club – Mueangthong
- SCG Muangthong United Football Club – Kirin Valley Khaoyai
- True Bangkok United
- The Villa Health Club - Bangkok
- The Legacy River Kwai Resort – Kanchanaburi
- Krabi Onsen & Spa – Krabi
- The Hotspring Beach Resort and Spa – Phang Nga

Kids Swimming Academy

- Baby Pool
- Baby Swimming
- Swimming Kids
- Swim Kidz
- Little Whale
- Bangkok Kids
- Baby Frog
- Ichi Baby Center

Hydrotherapy Pool

- Arun Health Garden – Bangkok
- Sukjaibodyfit Wellness – Saraburi
- Hatyai Chivasuk

Hospital

- Siriraj Piyamaharajkarun Hospita – Bangkok
- Ramadhibodi Chakri Naruebodindra Hospital
- Samitivej Srinakarin Hospital

Vegetable Farm

- Sabaijai Farm
- Chaiyo Farm

Swimming Academy

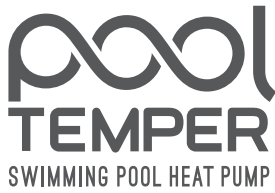
- Vision Swimming Academy Swimming Pool
- Bangkok Swim Academy Sukhumvit 71
- Aquarich Thailand

Other

- [Embassy of the United States, Bangkok](#)



PAC Pooltemp Inverter Specification



Model		PPV-015HP	PPV-020HP	PPV-030HP	PPV-045HP	PPV-060SVP	PPV-080SVP
Heating capacity*	kW	1.9 - 8.0	2.4 - 10.9	2.5 - 15.0	3.5 - 17.4	5.8 - 24.4	8.2 - 34.7
Heating capacity	BTU/h	6,460 - 27,200	8,160 - 37,060	8,500 - 51,000	11,900 - 59,160	19,720 - 82,960	27,880 - 117,980
Power input	kW	0.19 - 1.82	0.24 - 2.37	0.25 - 3.33	0.35 - 3.87	0.47 - 4.65	0.66 - 6.90
COP		10.00 - 4.40	10.00 - 4.60	10.00 - 4.50	10.00 - 4.50	12.34 - 5.25	12.42 - 5.03
Running current	A	8.40	9.50	16.56	17.50	11.70	14.40
Cooling capacity**	kW	0.25 - 2.53	0.34 - 3.12	0.50 - 4.90	0.48 - 5.64	1.25 - 14.05	2.50 - 22.00
Cooling capacity	BTU/h	850 - 8,630	1,160 - 10,640	1,700 - 16,700	1,640 - 19,240	4,265 - 47,939	8,530 - 75,064
Power input (kW)	kW	0.22 - 1.69	0.23 - 2.60	0.41 - 3.22	0.40 - 3.64	1.04 - 5.17	2.05 - 8.80
COP		1.50 - 1.15	1.50 - 1.20	1.52 - 1.22	1.55 - 1.20	2.72 - 1.20	2.50 - 1.22
Running current	A	8.40	9.50	16.56	17.50	11.70	14.40
Power supply	V/Ph/Hz	220 / 1 / 50				380 / 3 / 50	
Compressor quantity		1					
Compressor type		Inverter Rotary					
Heat exchanger type		Titanium Coil in PVC (Tube in shell)					
Refrigerant type		R32					
Fan quantity		1					
Fan motor type		DC					
Fan speed	RPM	400 - 700	500 - 800	400 - 750	500 - 750	600 - 750	500 - 750
Fan power input	Watt	40	40	75	75	200	250
Fan direction		Horizontal				Vertical	
Sound pressure level 1m	dB(A)	39 - 51	42 - 53	43 - 54	43 - 55	50 - 60	55 - 65
Sound pressure level in silence mode 1m	dB(A)	40	43	44	45	50	55
Sound pressure level 10m	dB(A)	20 - 30	22 - 32	24 - 33	24 - 34	30 - 40	35 - 45
Sound pressure level in silence mode 10m	dB(A)	20	22	24	25	30	35
Water connection	inch	1 1/2					
Water flow volume	m ³ /h	3.2	4.1	5.2	5.6	8.1	11.5
Water pressure drop	kPa	5	5	5	5	16	23
Casing material		ABS Plastic					
Casing color		Black					
Dimensions (L/W/H)	mm	1004/418/605	1004/418/605	1046/453/765	1161/490/862	777/816/965	910/920/1020
Net Weight	kg	47	51	60	70	106	123

Testing Condition :

*Heating : Ambient temp (DB/WB) 27°C/25 °C, Water temp.(In/Out) : 26 °C/28 °C

**Cooling : Ambient temp (DB/WB) 35 °C/24 °C, Water temp.(In/Out) : 28 °C/26 °C

Remark :

Max water temp 40 °C For Heating

Min water temp 10 °C For Cooling

Specification are subjected to changed without prior notice

RoHS



CB

CE



PAC is a leader of Energy Saving
Pool Temp and Pool Heat pump



Pool Asia Environment Award 2011
Pool Asia Expo & Conference 2011
Categories : Product Development



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