



POOL HEATING



Atecpool Inverter Heat Pumps

ATECPOOL Inverter Heat Pumps offer a maximum return on your money and extend the swimming pool season more than any other heat pump with best COP. **ATECPOOL** Heat Pumps are fully tested and certified, and are listed as **ECO friendly, being highly energy efficient with a COP up to 15.**

ATECPOOL provides wide range of heating solution from Sirocco, Mega and MegaHigh Inverter Heat pumps to On/Off Air to Water heat pumps, High



Temperature heat pumps, Water to Water heat pumps and Dehumidification.

Exclusive and extensive range of pool heating by **ATECPOOL** is excelled with design detailing, research engineering and high quality standards leading to **Green Revolution** with high energy savings and eco friendly solutions.



Atecpool Inverter Heat Pumps

Sirocco Heat Pumps

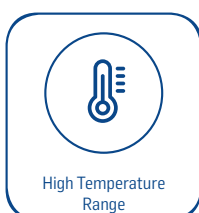
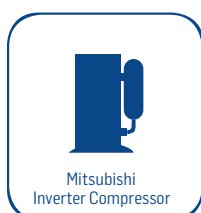
Eco-friendly & silent heating solution



The most silent heat pumps



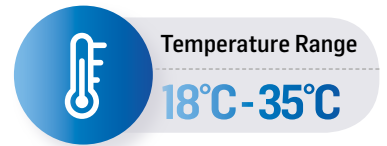
FIVE
STARS
HEAT
PUMP



ATECPOOL
INTERNATIONAL
GROUP

atecpool.com

Atecpool Sirocco Inverter Heat Pump



The most efficient heat-cool pump in the market. ECO Friendly pool heating.



Wi-fi
Integrated



COP up
to 10



Cost
Effective



Easy to
Operate

R410A GAS: Innovative refrigerant
Environmental friendly and saves energy

Average COP 10

When maintaining pool temperature at 95% of pool season, the HP is running at 50% capacity which results in the best energy saving performance and most silent pool environment.

Atecpool Sirocco utilises a simple touch controller which brings the best user-friendly experience.

Simple Classic Touch Controller



Easy Touch
Easy Run

Silent Heat
Pump

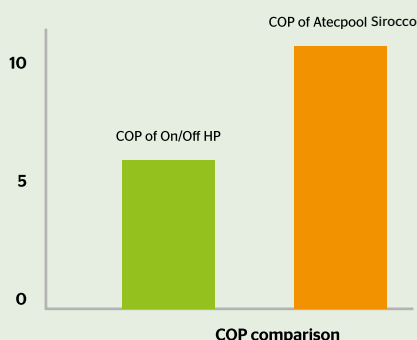
Patented
Design

Atecpool
Inverter
Technology

R32/R410A
production
line

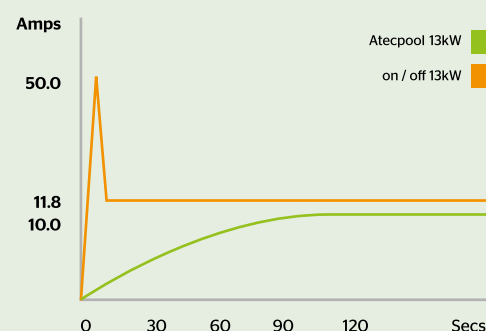
R410A
GAS

Double Energy saving than on/off hp



Intelligent system protection

The input current will start from 0 Amps to rated Amps steadily. No rush to house electricity system. Atecpool Sirocco can adapt to wide voltage from 180-260V and adjust the system in different conditions.

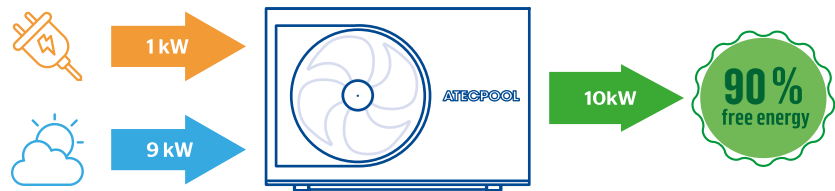


Atecpool Sirocco Inverter Heat Pump

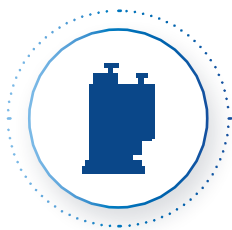
Atecpool Sirocco Heat Pump

Free Energy

Thanks to Atecpool Inverter technology, Atecpool Sirocco provides 90% free energy from ambient air on average.

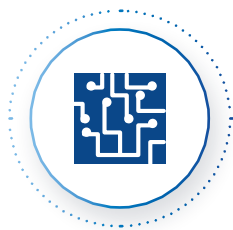


Atecpool Inverter Technology



Stepless DC Inverter

Atecpool inverters' core technology is stepless DC inverter. It adopts stepless invert compressor and DC brushless fan motor. The speed can be adjusted by a single hertz and round at a time, which provides amazing energy saving performance and extreme silence.



Unique Inverter Control System

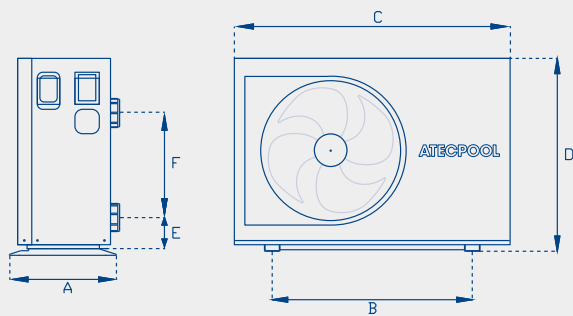
Atecpool inverters' control system is specially designed for pool heating. It can adjust the heating capacity precisely according to different heating needs high speed in the beginning of the season, and better energy saving in the rest of the season by low speed.



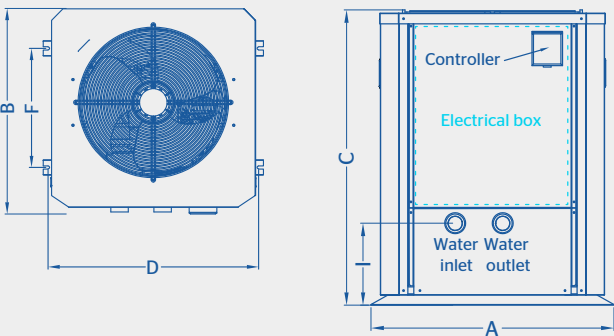
Intelligent Protection

Atecpool inverters can adapt to a wide range of voltage and adjusts the system in different tough conditions. For example, if an electricity peak or poor ventilation occurs, the system can intelligently slow down for comfortable operation. Thus, it has a longer life span than traditional on/off heat pump.

Atecpool Sirocco Dimensions

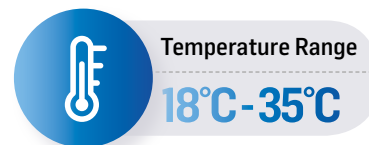


Code	A	B	C	D	E	F
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
AIHP115	405	680	1000	660	98	380
AIHP153	405	680	1000	660	98	380
AIHP180	405	680	1000	660	98	380
AIHP212	445	653	1130	775	108	380
AIHP253	445	653	1130	775	108	470



Code	A	B	C	D	F	I
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
AVHP265	795	742	966	760	430	268
AVHP308	795	742	966	760	430	268
AVHP352	900	812	1054	865	500	268
AVHP411	900	812	1054	865	500	268

Atecpool Sirocco Inverter Heat Pump Specifications



Atecpool Sirocco Inverter Side Discharge

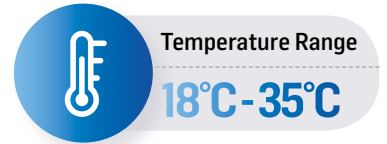


Atecpool Sirocco Side Discharge



Model		AIHP115	AIHP153	AIHP180	AIHP212	AIHP253
Ambient air temperature: 27°C, water temperature: 26°C, humidity 80%						
Heating	Heating capacity (kW)	11.5	15.3	18	21.2	25.3
	Power input (kW)	1.79	2.41	2.83	3.59	4.36
	COP	14.5-6.4	14.4-6.35	14.2-6.36	14.3-5.91	14.48-5.8
Ambient air temperature: 15°C, water temperature: 26°C, humidity 70%						
Heating	Heating capacity (kW)	8.23	11.15	13.33	14.2	16.7
	Power Input (kW)	1.614	2.226	2.693	2.88	3.394
	COP	7.81-5.1	7.64-5.01	7.55-4.95	7.45-4.93	7.58-4.92
Ambient air temperature: 43°C, water temperature: 30°C, humidity 70%						
Cooling	Cooling capacity (kW)	5.75	7.65	8.3	9.6	10.65
	Power Input (kW)	2.90	4.11	4.53	5.36	5.98
	EER	4.25-1.98	4.15-1.86	4.08-1.83	4.01-1.79	4.10-1.78
Power supply (V/Ph/Hz)		220V-240V/1P/50-60Hz			380-415V/3Ph/50-60Hz	
Max. power input (KW)		3	4.2	4.6	5.4	6
Max. current (A)		13.7	18.2	19.8	10.5	10.9
Compressor Brand		Mitsubishi (DC Inverter)				
Fan Quantities		1				
Heating temperature range		15°C - 35°C				
Cooling temperature range		18°C - 40°C				
Air Side Heat Exchanger		Hydrophilic Aluminum Fin & Copper Tube				
Water Side Heat Exchanger		Titanium Tube in PVC Tank				
Water Connection (mm)		50				
Noise Level at 1m dB(A)		33-47	35-47	35-47	37-48	37-48
Refrigerant	Type	R410A				
	Charged (kg)	0.63	0.95	1.35	1.5	1.9
Advised water flow (m³/h)		5	6	7	9.1	10.8
Fan Power Input (W)		60	60	60	120	120
Fan Speed (rpm)		850	850	850	850	850
Fan Airflow (cfm)		3000	3000	3000	5000	5000
Water pressure drop (kPa)		30	30	30	50	50
Net dimension LxWxH (mm)		980 x 398.5 x 660			1095 x 455 x 766	
Net/Gross Weight (kg)		44/57	47/60	52/65	75/84	85/94

Atecpool Sirocco Inverter Heat Pump Specifications



Atecpool Sirocco Inverter Top Discharge



Atecpool Sirocco Top Discharge



Model		AVHP265	AVHP308	AVHP352	AVHP411
Ambient air temperature: 27°C, water temperature: 26°C, humidity 80%					
Heating	Heating capacity (kW)	26.5	30.8	35.2	41.1
	Power input (kW)	4.344	5.06	5.77	6.95
	COP	14.82-6.1	14.7-6.09	14.81-6.1	14.74-5.91
Ambient air temperature: 15°C, water temperature: 26°C, humidity 70%					
Heating	Heating capacity (kW)	17.87	19.84	24.56	28.1
	Power input (kW)	3.74	4.17	5.25	5.98
	COP	7.05-4.78	7.28-4.76	6.84-4.68	7-4.7
Ambient air temperature: 35°C, water temperature: 28°C, humidity 70%					
Cooling	Cooling capacity (kW)	14.84	15.5	17.4	19.8
	Power input (kW)	5.819	6.01	6.7	7.48
	EER	4.95-2.55	4.98-2.58	5.01-2.64	5.03-2.66
Ambient air temperature: 43°C, water temperature: 30°C, humidity 70%					
Cooling	Cooling capacity (kW)	12.25	13.4	15.6	17.55
	Power input (kW)	6.03	6.47	7.57	8.43
	EER	4.45-2.03	4.43-2.07	4.41-2.06	4.44-2.08
Power Supply (V/Ph/H)		380-415V/3Ph/ 50-60Hz			
Max Power input (kW)		6.1	6.5	7.3	8.0
Max Running Current (A)		10.9	11.6	13.0	14.3
Refrigerant		R410A			
Compressor Brand		Mitsubishi (DC Inverter)			
Air Side Heat Exchanger		Hydrophilic Aluminum Fin & Copper Tube			
Water Side Heat Exchanger		Titanium Tube in PVC Tank			
Water Connection (mm)		50			
Advised water flow (m³/h)		9	10	12	14
Heating Temperature Range		15°C - 35°C			
Cooling Temperature Range		18°C - 40°C			
Noise Level at 1m dB(A)		43-49	43-49	45-51	45-52
Fan Power Input (W)		185	185	230	230
Fan Speed (rpm)		800	800	800	800
Fan Airflow (cfm)		6500	6500	7200	7800
Water Pressure drop (kPa)		45	45	50	60
Net Dimension LxWxH (mm)		760 x 687 x 963	714 x 732 x 955	900 x 812 x 1060	
Net/Gross Weight (kg)		105/120	108/123	137/152	140/155



Atecpool Mega Inverter Heat Pumps

High Capacity Inverter

For Commercial Installations



FIVE
STARS
HEAT
PUMP



R410A
GAS

Less than
53dB



The most silent heat pumps



Wi-fi
Integrated



Cost
Effective



COP up
to 15



Atecpool Mega Inverter Heat Pump

Powerful saving commercial inverter



Easy Touch
Easy Run

WiFi Built-in
Touch Controller



Comfort Silence
53dB(A) at 1m

DC Inverter: Average COP 10

When maintaining pool temperature at 95% of pool season, the HP is running on 50% capacity which results in the best energy saving performance and most silent pool environment.

Silent Heat
Pump

Patented
Design

Atecpool
Inverter
Technology

R32/R410A
production
line

R410A
GAS

Specifications

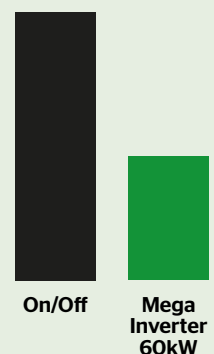
- Reverse cycle defrosting.
- 0-52°C operation.
- Aluminium-alloy casing.
- Mitsubishi Twin-Rotary Inverter Compressor.
- EEV Technology - 20% higher efficiency than capillary.
- Twisted Titanium Heat Exchanger - 40% higher efficiency.

Double Energy saving than on/off HP

Heat pump	Mega Inverter 60kW	On/Off HP 60 kW
COP (air 27°C / water 27°C)	10.5 @50% Capacity	5
Input power	2.86 kW	12 kW
Heating time (for 1°C)	9.67 hrs	4.83 hrs
Daily consumption	27.66 kWh	57.96 kWh
Yearly consumption (180 days)	4978.8 kWh	10432.8 kWh

Formula: $kW \cdot h = T \cdot V(m^3) \cdot 1.16$

Above calculation is just a reference when maintaining pool temp for well isolated pool under air 27°C / water 27°C



Atecpool Mega Inverter

Heat Pump Specifications

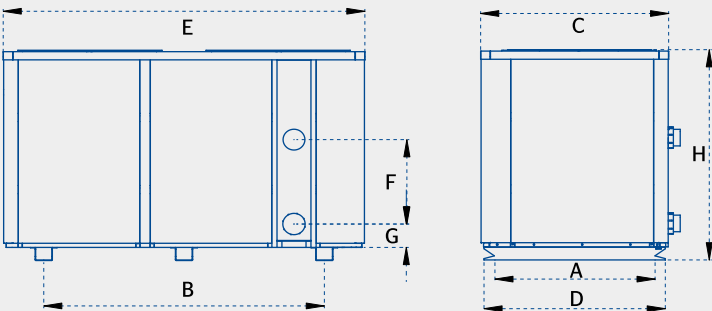
Mega Inverter Heat Pump Specification

Model	AMHP060	AMHP090
Performance condition: Air 27°C/ Water 27°C/ Humid. 80%		
Heating capacity (kW)	60,2	115,0
Average COP at 50% speed	10,5	10,0
Performance condition: Air 15°C/ Water 26°C/ Humid. 70%		
Heating capacity (kW)	40,1	80,8
Average COP at 50% speed	7,0	7,0
Performance condition: Air 45°C/ Water 32°C/ Humid. 80%		
Cooling capacity (kW)	25,1	50,3
Technical specifications		
Operating air temp. (°C)	0°C ~ 55°C	
Heat exchanger	Twisted Titanium Heat Exchanger	
Refrigerant Gas	410A	
Fan direction	Vertical	
Fan quantity	1	2
Fan air flow (cfm)	20000	38000
Fan input power (W)	500	500x2
Fan rotate speed (rpm)	800	800
Power Supply	400-415V / 3 Ph / 50Hz	
Rated input power (kW)	2.26-8.90	4.68-17.5
Rated input current (A)	3.27-12.9	6.78-25.3
Sound level at 1m dB(A)	53.0-61.0	55.0-64.0
Sound level 50% at 1m dB(A)	55	58
Sound level at 10m dB(A)	33.0-41.0	35.0-44.0
Advised water flow (m³/h)	20-25	40-50
Water connection (mm)	75	110
Net dimension LxWxH (mm) approximate	1000*1110*1260	2100*1090*1280
Net Weight (kg)	212	459

Notes:

- * The data above is only for reference. For specific data, please refer to the nameplate on the unit.
- * Advised pool volume applies to a private pool with an isothermal cover

Atecpool Mega Inverter Dimensions



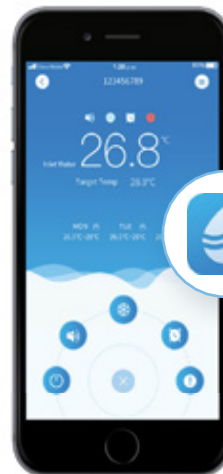
Code	A	B	C	D	E	F	G	H
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
AMHP060	1000	660	1110	1070	1000	780	105	1260
AMHP090	1000	1630	1090	1050	2100	510	140	1280

Atecpool MegaHigh Inverter Heat Pump

Atecpool MegaHigh Inverter for large water bodies



Heating
Cooling



App Control

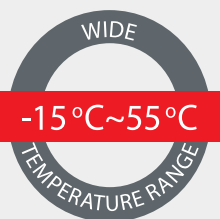
Full Inverter Technology equipped with high quality DC Mitsubishi compressor and DC fan motor. COP achieved upto 16.1 and EER upto 5.3. High energy efficiency units for commercial installations.

Display & Central Control

Two Display Options : 5 inch LCD Color Display / 7 inch LED Display. Equipped with a 64-bit chip, 0.1degC accurate temperature control and PID automatic defrosting.

Practical Cabinet Structure

The classic vertical wind outlet type saves ground space to accommodate more units.



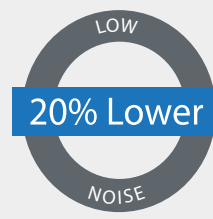
Broad Climate Suitability

The unit can adapt to a wide climatic range. Lab tests showed maintained stable operation in -15-55°C. This feature makes the unit suitable for markets all over the world



Soft Starting

When the machine is turned on, its soft start technology avoids a sudden fluctuation of taking high Amps but start the unit softly and reach stable current slowly.



Low Noise

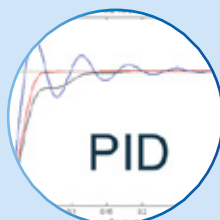
The DC inverter fan with special design blades not only saves energy but also helps to keep the operating noise 20% lower.



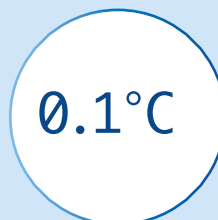
Centralized
Control
(RS485)



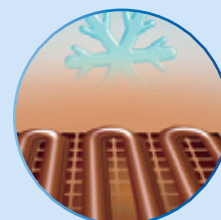
64Bit
Processor



PID
Control



Precise
Control



Automatic
Defrost

Atecpool MegaHigh Inverter Heat Pump

MegaHigh Inverter Heat Pump Specification



Specification		Code	
		AMHP110	AMHP170
Heating capacity air 27°C / water 26°C / humidity 80%			
Heating Capacity	kW	80	175
Consumed Power	kW	0.76-10.65	1.76-20.97
COP		6.1-16.1	6.2-16.0
Heating capacity air 15°C / water 26°C / humidity 70%			
Heating Capacity	kW	60	135
Consumed Power	kW	1.96 - 5.96	2.61 - 20.41
COP		4.91 - 8.4	4.90 - 8.5
Cooling capacity air 43°C / water 26°C / humidity 70%			
Cooling Capacity	kW	42	96
Consumed Power	kW	2.94 - 7.37	13.81 - 13.85
EER		4.1 - 5.1	4.3 - 5.3
Cooling capacity air 53°C / water 35°C / humidity 80%			
Cooling Capacity	kW	25	75
Consumed Power	kW	2.02 - 6.28	10.73 - 17.79
EER		3.00 - 4.05	3.08 - 4.1
Operating Air temperature	°C	-15 - 55	
Power Supply	V / Ph / Hz	380-415V-/3Ph-50Hz	380-415V-/3Ph-50Hz
Rated Input current	A	21	47
Casing Type		metal sheet	metal sheet
Compressor		Mitsubishi DC type	
Fan quantity		2	2
Fan power input	W	200x2	1300x2
Fan rotate speed	rpm	850	850
Fan direction		vertical	vertical
Fan airflow	cfm	18000	22500
Sound Pressure 1m	dB(A)	60	63
Sound Pressure 10m	dB(A)	40	43
Water connection	mm	63	110
Advised water flow	m³/h	25	45
Net dimensions (LxWxH)	mm	1750x840x1750	2170x1150x2130
Refrigerant gas		R410A	R410A



Atecpool Reversible Cycle Heat Pump

Air/Water Heat Pumps

Heating and Cooling

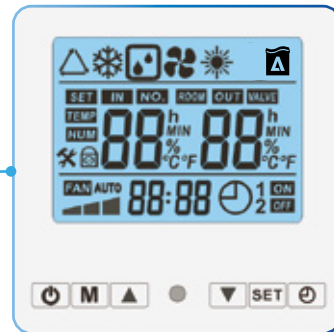


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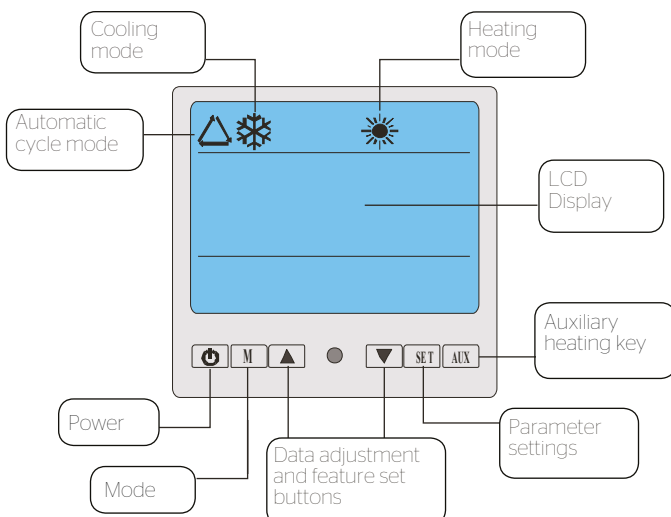
Atecpool Air/Water Heat Pump

Outdoor Installation



Atecpool Air/Water Heat Pump

- Atecpool Reversible cycle heat pump can be used for heating and cooling swimming pools, spas or other water bodies.
- RCHP technology is based on the same principle employed in air conditioners and refrigerators, delivering up to five times more energy in heat than it consumes as electricity. Our heat pumps are designed to heat your pool by extracting ambient heat from the atmosphere. This heat is then transferred into a refrigerant gas which is compressed and heated further. The heat is then transferred into the pool water, and heats your pool.
- With a Coefficient of Performance (COP) of greater than 5.8 at an air temperature of 26°C and over 4.5 at just 15°C, ATECPPOOL heat pumps are 15-30% more efficient than competitive units. This remarkable efficiency can save up to 80% on running costs when compared to alternative gas or electric pool heating.
- 16 programs with synchronization capability.
- 2 Years manufacturer warranty.
- Whisper-quiet operation
- Quality, reliability and durability
- Our Heat Pumps are manufactured using only top-quality components. The titanium heat exchanger is not only extremely efficient, but it will never rust or corrode. Our heat pumps also feature more accurate and durable commercial grade digital controllers with the most user-friendly features, specific water flow switches and high capacity compressor capacitors.

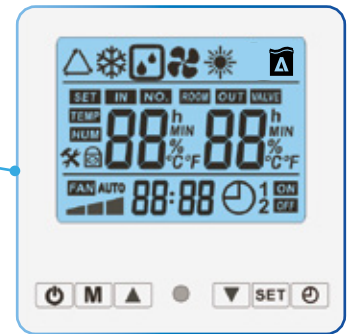


**Let's start swimming
all year round!**

Reversible Cycle Heat Pump

Outdoor Installation

Atecpool Air/Water Heat Pump



ATECPPOOL Heat Pump Benefits

- Uses freely available air energy = 4-5 times more effective than conventional electrical heaters.
- For every kW of power consumed, you get at least 4-5kW of free power
- Inexpensive to run
- Incredibly efficient Japanese inverter technology
- Quietest operation
- Top quality, maximum durability titanium heat exchanger
- Installation is quick and easy

Water Heat Exchanger

- Made of double spiralled titanium tubes encased in PVC or S.S. for additional protection against corrosive pool water.
- The double spiraling of the heat exchanger increases the surface area that comes in contact with the pool water, this drastically reduces scaling while heating rapidly and efficiently.

External Heat Exchanger (Evaporator coils)

- The tubes are made of copper and the fins are aluminium.
- The extra-large evaporator coils are designed to collect more heat from air outside to ensure the best performance in even the most adverse conditions.
- Large axial fans, with precision engineered blades are used to draw in maximum ambient air and pass it on to the evaporator coils.

Refrigerant

- We use the environmentally approved refrigerant R407-C, R410-A, R134-A depending on our client's requirements.
- For maximum efficiency you can combine your reversible cycle heat pump and solar pool heating in one system to capitalise on the sun's free energy as well as that from the ambient air. All components of ATECPPOOL heat cool pumps are of the highest international quality.

Reversible Cycle Heat Pump

Outdoor Installation

Atecpool Air/Water Heat Pump Specification		Model / Code						
		03310020H	03300030	03300040	03300050	03300060	03310070	03300080
Heating capacity	kW	8.8	13	17	21	25	35	45
	BTU /hr	30000	44000	58000	72000	86000	120000	150000
Heating Power Input	kW	19	265	3.7	46	5	75	95
Cooling Capacity	kW	5.8	8.8	12	14.5	17.4	25	34
	BTU /hr	19720	30000	41000	49500	59500	86000	116000
Cooling Power Input	kW	21	2.85	3.9	5.2	5.8	8.4	9
Running current	A	8.6 / 96	13.6 / 14.3	18.0 / 19.1	71 / 7.35	8.91 / 10.33	13.2 / 14.5	15.7 / 16.4
COP		51	51	5.0	5.0	5.1	5.0	4.9
Power Supply	V / PH / HZ	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz
Compressor Quantity		1	1	1	1	1	2	2
Compressor		Rotory	Rotory	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Quantity		1	1	1	1	1	2	2
Fan Input Power	W	150	200	200	200	200	200 x2	200 X 2
Fan Rotate Speed	rpm	850	830	830	830	830	830	830
Fan Airflow	cfm	3330	6960	6960	6960	6960	13920	13920
Fan direction		Horizontal	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Noise	dB (A)	50	51	51	51	54	59	61
Water connection	mm	50	50	50	50	50	50	63
Water Flow volume	m³/h	3	6	7.5	8	9	10	14
Water pressure drop (max)	kPa	8	8	10	12	12	15	15
Unit net dimensions (L/W/H)	mm	1010*420*650	660*660*860	660*660*860	660*660*860	660*660*860	1448*725*976	1450*730*1250
Unit net weight	kg	77	86	100	125	150	200	250

Atecpool Air/Water Heat Pump Specification		Model / Code						
		03300090	03310100	03310110	03310120	03310130	03310140	03310160
Heating capacity	kW	55	75	90	105	145	160	210
	BTU /hr	187000	255000	306000	357000	493000	550000	714000
Heating Power Input	kW	11	16.7	17.5	22.5	30.2	34.2	46.3
Cooling Capacity	kW	42	56	70	88	106	120	150
	BTU /hr	143000	190400	238000	300000	360400	410000	510000
Cooling Power Input	kW	10.3	17.2	17.8	24.7	32.1	41.6	56.2
Running current	A	18.0 / 19.2	29.8 / 30.6	31.2 / 31.7	40.1 / 44.0	53.9 / 57.3	61.0 / 74.2	81.8 / 99.1
COP		4.9	4.49	4.7	4.5	4.80	4.7	4.5
Power Supply	V / PH / HZ	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz	415V/3N-/50Hz
Compressor Quantity		2	3	3	4	3	3	4
Compressor		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Quantity		2	3	3	3	3	3	4
Fan Input Power	W	200 X 2	200 X 3	200 X 3	200 X 3	550 X 3	550 X 3	550 X 4
Fan Rotate Speed	rpm	830	830	830	830	870	870	870
Fan Airflow	cfm	13920	19500	19500	19500	22500	22500	30000
Fan direction		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Noise	dB (A)	61	61	62	62	64	65	65
Water connection	mm	63	63	63	110	110	110	110
Water Flow volume	m³/h	18	25	30	32	36	40	60
Water pressure drop (max)	kPa	15	16	16	16	23	24	24
Unit net dimensions (L/W/H)	mm	1450*730*1280	2150*760*1310	2150*760*1310	2170*1065*1930	2170*1065*2100	2170*1065*2100	2850*1108*2220
Unit net weight	kg	265	360	370	695	752	950	1350

Data sheet is based on capacities:

Cooling: Ambient air temperature: 42° / 36° C - Water temperature: 33° C // Heating: Ambient air temperature: 23° / 18° C - Water temperature: 26° C

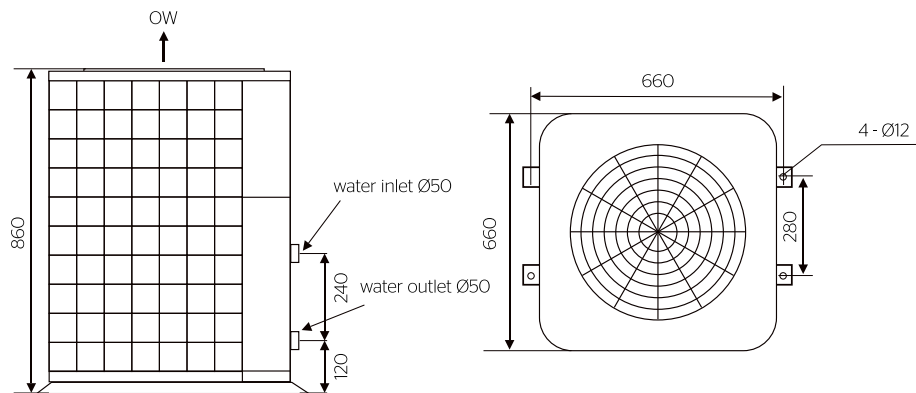


Reversible Cycle Heat Pump

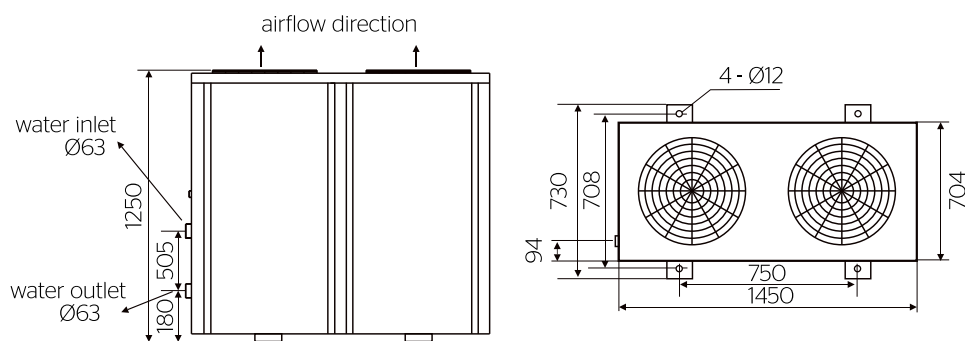
Outdoor Installation

Atecpool Air/Water Heat Pump

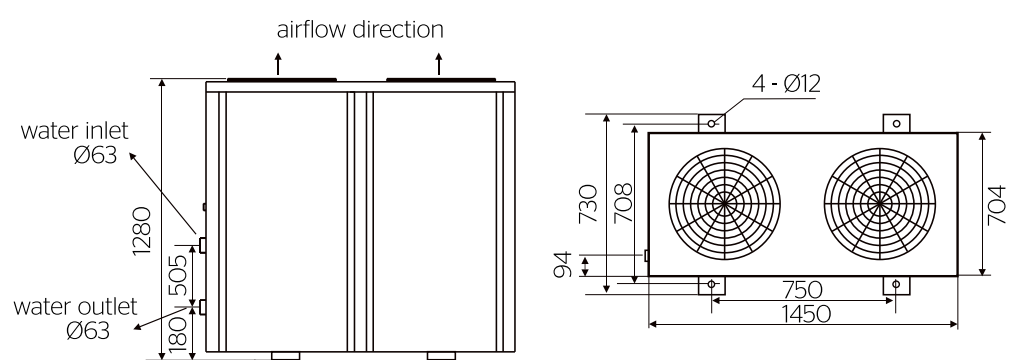
03300060
Heating capacity 25 kW
Cooling capacity 17.4 kW



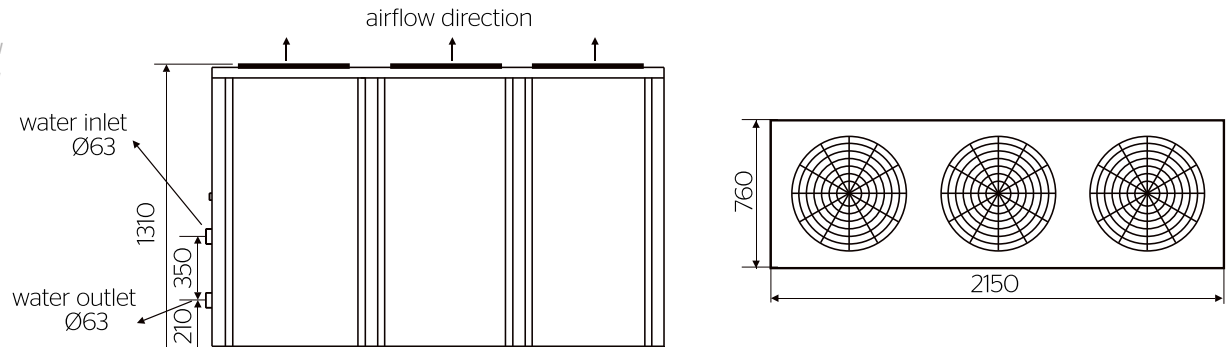
03300080
Heating capacity 45 kW
Cooling capacity 34 kW



03300090
Heating capacity 55 kW
Cooling capacity 42 kW



03310110
Heating capacity 90 kW
Cooling capacity 70 kW



Atecpool MaxChill Series

Water Chillers

Atecpool MaxChill water chillers

Ideal for plunge pools and water immersion pools for sports recovery. Atecpool Water Chillers provide low temperatures reaching 10°C for cold water treatment. Anti-Corrosive Titanium Heat Exchanger combined with a R410 refrigerant compressor for low water temperatures.



>> Low water temperature upto 10°C <<

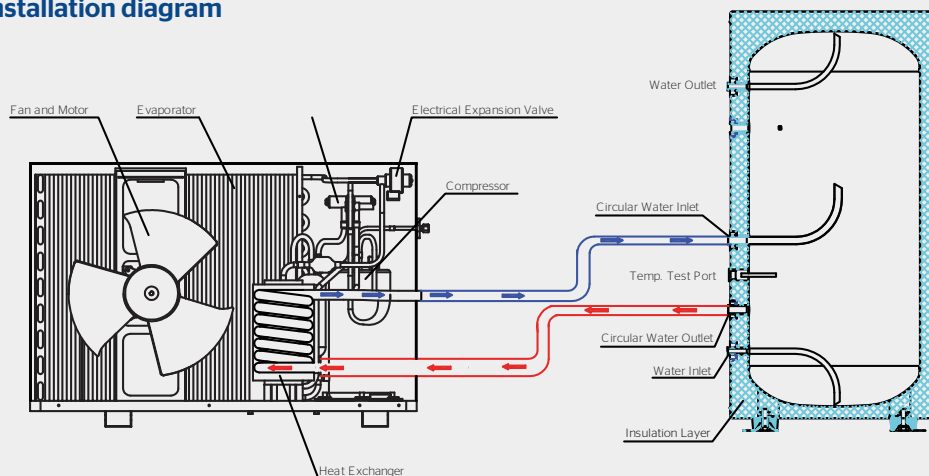
Suitable for cooling

- Swimming pool
- Spa
- Roof water tanks

Working principle

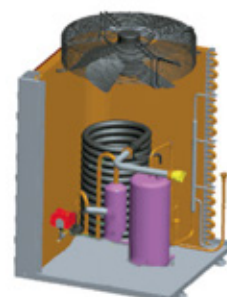
The technology is based on the same principle employed in air conditioners and refrigerators, delivering up to five times more energy than it consumes in electricity. Chillers are designed to give low temperatures to water body by extracting ambient heat from the surrounding air.

Installation diagram



MaxChill Components

- Heat Exchanger made of double spiralled titanium tubes encased in PVC or SS for additional protection against corrosive pool water.
- Extra-large evaporator coils are designed to collect more cool energy from the outside air to ensure performance in even the most adverse conditions.
- Large axial fans, with precision engineered blades are used to draw maximum ambient air and pass it on to the evaporator coils



Atecpool Maxchill Series

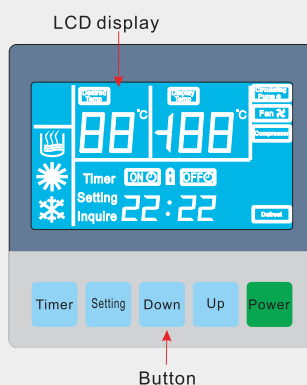
Water Chillers



Specification		Model / Code		
		ACU-200	ACU-300	ACU-500
Chilled water @ 35°C ambient				
Cooling Capacity Rating	kW	75 (2 Ton)	12.35 (3.5 Ton)	18 (5 Ton)
Rated Power Input	kW	2.50	4.10	6.0
Rated current	Amps	12.10	18.60	11.40
Chilled water @ 46°C ambient				
Cooling Capacity Rating	kW	6.25	10.30	15.0
Rated Power Input	kW	2.70	4.40	6.40
Rated current	Amps	12.80	20.0	12.20
Min Cooling Water Temp			10°C	
Incoming Cable Size		3 Core x 2.5mm² Cu	3 Core x 4.0mm² Cu	5 Core x 2.5mm² Cu
Power Voltage		220V / 50Hz	220V / 50Hz	380V / 50Hz
Compressor	Brand	Panasonic	Panasonic	Panasonic
		Scroll*1	Scroll*1	Scroll*1
Heat Exchanger		Titanium Tube Heat Exchanger in PVC shell		
Refrigerant		R410A	R410A	R410A
Electric Expansion Valve		DPF2.4	DPF3.0	DPF3.0
Defrost		Included		
Cabinet		Galvanized Steel Casing		
Water Connection Port	mm	Exterior 50mm/ Interior 40mm		
Fan Blade Material		Axial Fan Plastic Blade	Axial Fan Plastic Blade	Axial Fan Metal Blade
Fan Input Power	W	200	400	400
Fan Rotate Speed	rpm	850	850	850
Noise	dB(A)	49	58	58
Advised water flow	m³/h	8-10	12-15	12-15
Water pressure drop	kPa	14	15	15
Unit net dimensions	mm	630*605*780	810*810*1050	810*810*1350
Net Weight	Kg	94	105	160

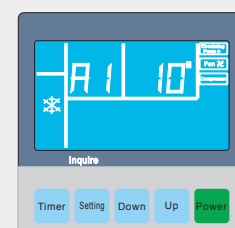
LCD Display and functions

MaxChill features more accurate and durable commercial grade digital controllers with user friendly features.



◆ Illustration for the buttons

- power** unit unlock, turn on/off
- UP** increase (setting parameters of the functions)
- down** decrease (setting parameters of the functions)
- setting** Query and function setting
- timer** Clock and timer switch setting



HiHeat Hot Water Heat Pump

Outdoor Installation

Outlet water temperature up to 80°C



Suitable for

- 5 Star Hotels
- Hospitals
- Printing & Packaging
- Textile industry
- Food Processing Industry
- And other industries

HiHeat Hot Water Reversible Cycle Heat Pump, Air/Water cycle with its heat power capability of producing hot water up to 80°C is equipped with an inbuilt Grundfos circulation pump, patented Tube in Shell Heat Exchanger and Copeland compressor with R134A refrigerant.

Low
Operating
Cost

Environmentally
Friendly

80°C
Hot Water
Outlet

EVI
Technology

Multiple
Protections

Wide
Operation
Range

HiHeat Highlights

- **Low operating cost:** The operating cost is very low compared with conventional heat sources, such as electricity, coal, gas and diesel.
- **Environmental Friendly:** Adopting R134A refrigerant of lower GWP, means the air pollution emission is zero, which is very environmental-friendly compared with coal.
- **80°C Hot Water Outlet:** With stable hot water supply, the unit can be widely used in different industrial applications.
- **EVI Technology:** With EVI technology, the unit can work stably for hot water application.
- **Multiple-Protections:** The multiple protective design ensure the unit's long service life and stable operation.
- **Wide Operation Range:** With advanced 4-way-valve applied in the unit, the unit can be used in any environment from -7°C to 45°C.

HiHeat Hot Water Heat Pump

Outdoor Installation

HiHeat Hot Water Heat Pump Specification



Specification		Model / Code			
		ATHP30	ATHP50	ATHP70	ATHP120
Hot Water Capacity (Air 20/15°C, Water 15-65°C)	kW	19.0	35.0	70.0	135.0
Power Input	kW	5.3	9.2	19.0	38.6
COP	W/W	3.58	3.68	3.68	3.50
Hot Water Volume	l/h	326	602	1204	2321
Max. Power Input	kW	75	18.1	36.2	64.4
Max. Running Current	A	14.3	32.3	64.6	108.5
Power Supply	V/Ph/Hz	380-415V/3N-/50Hz			
Compressor Quantity		1	1	2	4
Compressor Type		Scroll			
Compressor Brand		Copeland			
Fan Quantity		2	1	2	2
Circulation Water Pump		Grundfos CM 3-3	Grundfos CM 5-3	Grundfos CM 10-2	-
Fan Motor Input	W	200x2	750	750x2	1800x2
Minimum Flow Required	m³/h	3.3	6.0	12.0	23.2
Water Pressure Drop	kPa	25	38	42	45
Water Connection		1.2" inch	DN40 flange	DN65 flange	DN80 flange
Noise	dB(A)	58	65	68	70
Air Volume	m³/h	5000x2	12000x1	14000x2	23000x2
Air Discharge Type		Horizontal	Vertical	Vertical	Vertical
Max. Outlet Water temp.	°C	80			
Operation range	°C	-7-45			
Condenser		Patented tube in Shell Heat Exchanger			
Evaporator		High Efficiency Aluminium Finned Heat Exchange			
Defrosting		by 4-Way Valve			
Controller		PC Controller			
Display		5 inch Smart Central Display			
Refrigerant		R134A			
Cabinet		Eco-friendly Galvanized Metal / (Stainless Steel optional)			
Net Weight	kg	219	468	600	1050
Gross Weight	kg	238	512	643	1100
Net Dimensions (L/W/H)	mm	1175×400×1605	1195×980×1900	1930×1050×1980	2350×1150×2370

Data sheet is based on capacities:

Test Conditions: Ambient temperature 20°C/15°C, water circulation from 15°C to 65°C.

The data above is for reference only. For more specific data, please refer to the nameplate on the unit.

Climatic Water/Water Heat Pump

Water Source Heat Pump

Atecpool Climatic Water Source Heat Pump

Water-to-Water Heat Pump is a system of heating or cooling that involves the transfer of heat by a circulating fluid (as water or vapor) in a closed system of pipes.

Atecpool Climatic ATWSHP Series for heating includes a special high temperature scroll compressor coupled with heat exchangers designed specifically for water heating, which provides unmatched efficiency and performance. The evaporator is a tube-in-shell heat exchanger that is capable of operation over a wide range of temperatures, and is more rugged than other types of evaporators. The condenser uses a close approach tube-in-shell heat exchanger as well.

Perfect Solution for industrial water heating

Suitable for

- Pharmacy Industry
- Gas boilers replacement
- Dairy Requirement Sterilization
- Sewage Treatment
- Desalination Plants



High
COP

Various
Applications

Higher
ROI

More
Reliable

Compact
Design &
Flexible
installation

Climatic Series Highlights

- **IEER > High COP:** High heat transfer efficiency enables it to have high energy saving performance.
- **Various Applications:**
Compatible with existing water chillers for hot water & cooling
Compatible with existing cooling tower for factory process cooling & hot water
- **Higher ROI:** Low cost water heating and free air cooling, flexible installation and combination solution equals to high ROI in the long run.
- **More Reliable:** Durable and reliable; the unit can run stably all year around without being affected by ambient temperature.
- **Compact Design & Flexible installation:** The multi-connected heat exchanger design makes it compact, thus able to adjust to various installation locations.

Climatic Water/Water Heat Pump

Water Heat Pump

Atecpool Climatic Water Source Heat Pump



Climatic Series Specifications

- Compact water-to-water heat pump for indoor or outdoor installation.
- With suction gas cooled scroll compressor.
- With extensive tube-in-shell Heat Exchanger as tube evaporator and coaxial condenser.
- Refrigerant cycle with thermostatic expansion valve, filter, gas-liquid separator, high and low pressure switches.
- With efficient automatic defrosting by hot gas principle.
- Electric and terminal box, with control and disturbance signaling.
- Heating regulator for mounting to walls.
- Refrigerant as R134A.

Water Connections

- Water connections to be done on site.
- Heating and condensation connections of flexible pipes with external thread.

Condensation Connections

- The water connections and the drain pipelines must be protected against frost on sites in freezing climates.
- It's always recommended and necessary to insulate the water pipes from W2W to water bodies when there is a long distance between them, to maintaining the heat.

Climatic Water/Water Heat Pump

Water Source Heat Pump

Atecpool Climatic Water Source Heat Pump Specification



Specification		Model / Code			
		ATWSHP210	ATWSHP230	ATWSHP270	
Heating Capacity*	kW	33.6	67.1	134.2	
Cooling Capacity*	kW	25.5	50.9	101.9	
Power Input*	kW	7.9	15.8	31.6	
COP*	W	4.24	4.24	4.24	
EER*	W	316	3.20	3.22	
Heating Capacity**	kW	28.9	57.8	115.6	
Cooling Capacity**	kW	18.9	37.8	75.6	
Power Input**	kW	10.4	20.8	41.7	
COP**	W	2.77	2.77	2.77	
EER**	W	1.78	1.81	1.82	
Max. Power Input	kW	15	25	46	
Max. Running Current	A	25	45	90	
Power Supply	V / Ph / Hz	380-415V/3N-/50Hz			
CompressorType		Copeland ZW150KBE-TFP-522 Scroll Compressor			
Compressor Quantity		1	2	4	
Evaporator	Type	Tube in Shell Heat Exchanger			
	Water Flow	m³/h	5.0	10.0	20.0
	Water Pressure Drop	kPa	20.4	38.6	54.5
	Water Connection		DN32	DN80	DN80
Condenser	Type	Tube in Shell Heat Exchanger			
	Water Flow	m³/h	4.6	9.1	18.2
	Pressure Drop	kPa	16.5	30.9	41.5
	Water Connection		DN32	DN80	DN80
Noise	dB(A)	65.0	68.0	69.0	
Refrigerant		R134A			
Controller		Multi-function Controller			
Display		5 Inch Colorful Touch Display			
Max Outlet Water Temperature	°C	80			
Cabinet		Eco-friendly Galvanized Metal / Stainless Steel for option			
Net Weight	kg	202	441	866	
Net Dimensions (L/W/H)	mm	1030 / 640 / 730	1172 / 900 / 1365	1600 / 1130 / 1500	
Shipping dimensions (L/W/H)	mm	1130 / 710 / 910	1360 / 960 / 1520	1790 / 1210 / 1670	

Note:

*Testing Condition Evaporator Side inlet/outlet: 20/15°C; Condenser Side inlet/outlet: 45/55°C

**Testing Condition Evaporator Side inlet/outlet: 20/15°C; Condenser Side inlet/outlet: 65/75°C

Atecpool Air Dehumidification

Atecpool Air Pool Dehumidification

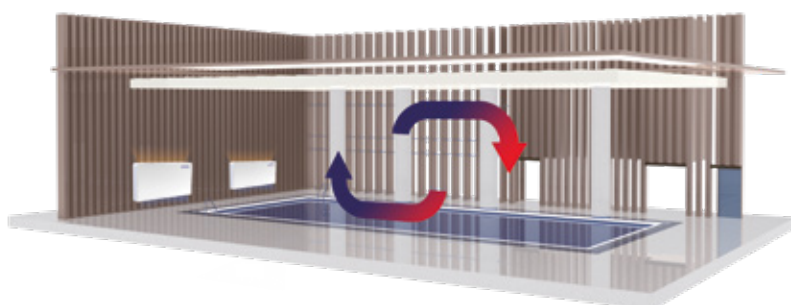


Wall Mounted Dehumidifiers for indoor pool installation

Through absorbing clammy air and transferring it to warm and dry air, Atecpool Air Dehumidifier can easily tackle problem that cause condensation and furniture corrosion. Atecpool Air Dehumidifier for indoor pool installation. Wall mounted models for humidity controls in indoor swimming pools. Extremely silent operation (44-47 dB(A)) and high energy saving with R410A compressors and a built-in electronic thermostat.

- 1 Epoxy Fin Air Exchanger**
 Air Dehumidifier adopt epoxy fin air exchanger which is featured with great anti-corrosion performance, ensuring the units longer life.
- 2 Super Silent Operation**
 Heat Pump Dehumidifiers utilise DC fan motors to circulate air, allowing the units to work silently.
- 3 Ultra-Thin Casing**
 With a compact inner structure our Air Dehumidifiers feature an ultra-thin casing 200mm thick, requiring less space in the pool house.
- 4 High Working Efficiency**
 The dehumidification volume reaches as much as 3.0 L/h at 30°C ambient temperature and 80% relative humidity.
- 5 Exclusive Design**
 Atecpool Air Dehumidifier provides two exclusive designs. Users can choose the white glass panel or black glass panel casing according to your preference.
- 6 Automatic Temperature Detection**
 The unit is equipped with a sensor that detects the ambient temperature. If the ambient temperature exceeds 30°C, the unit will automatically shut down to protect the equipment.

Atecpool Air Dehumidifier



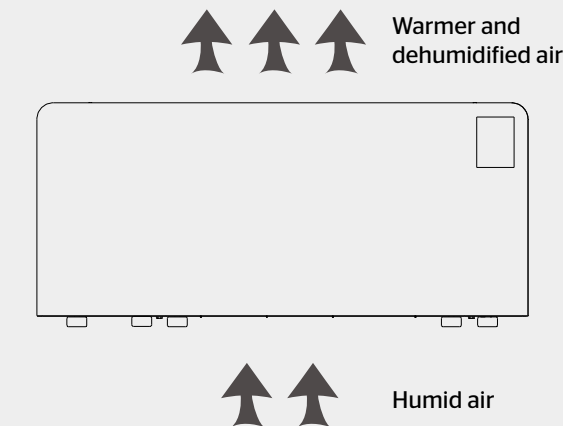
Atecpool Air

Dehumidifier Specifications

Model	Unit	ATEC22	ATEC35	ATEC45
Rated Capacity	L/h	2.2	3.5	4.5
Dehumidification capacity per day	L	53	84	108
Max pool area	m²	42	60	83
Air Volume	m³/h	450	600	750
Noise Level	dB(A)	44	46	47
Rated Voltage / Frequency	/	220-240V~/50Hz	220-240V~/50Hz	220-240V~/50Hz
Rated Power Input*	kW	0.9	1.1	1.95
Rated Running Current*	A	4.0	5.0	8.8
Max Power Input	kW	1	1.3	2.3
Max Running Current	A	4.3	5.85	10
Relative Humidity	%RH	40~100	40~100	40~100
Running Ambient Temperature	°C	10~30	10~30	10~30
Dimensions (LxWxH)	mm	1295x202x647	1495x202x647	1695x202x647
Refrigerant	/	R410A / R32	R410A / R32	R410A / R32
Condensation Pipe Diameter	mm	16	16	16
Testing Condition : 30°C Ambient Temperature, 80% Relative Humidity				

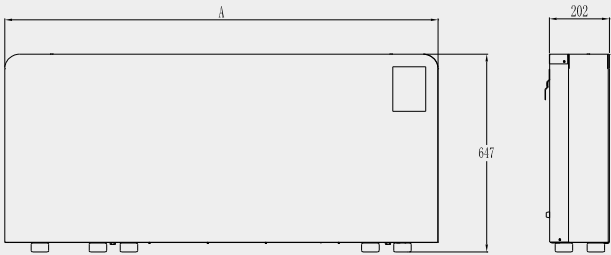
Working principle

The unit works by drawing moist air over a refrigerated coil with a small fan. The cold coil of the refrigeration device condenses the water, which is removed, then the air is reheated by the hot coil. This process works most effectively with higher ambient temperatures with a high dew point temperature.



Dimensions

Code	ATEC22	ATEC35	ATEC45
	(mm)	(mm)	(mm)
Length	1295	1495	1695



Dantherm

Dehumidification

CDP Pool Dehumidification - Efficient dehumidification for aggressive environments

Fully automatic operations

The small units are fully automatic. They are supplied with electronic control, built in adjustable hygrostat and a visual display showing the operation modes.

The large units are supplied with electronic control and prepared for external hygrostat connection. An electronic module provides a visual display of working modes while the control panel provides push button selection of "air heating" and "continuous fan run". The control panel can be moved to either side of the unit to suit plant room configuration.

Applications CDP and CDP (T)

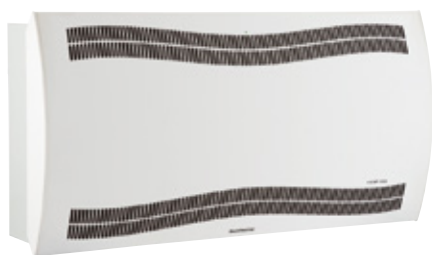
- Swimming pools
- Spas
- Shower rooms
- Gymnasiums
- Larger private pools
- Hotel pools and spas

Function

An integral fan draws humid air into the dehumidifier through a filter. Here the air passes through an evaporator, where the water vapour condenses on a cold surface and falls as water droplets, into the drip tray and then into the drain. The cooled air then passes through a condenser and picks up not only the heat equivalent of the previous cooling, but also the heat equivalent of the electrical input to the unit. Consequently, the air leaves the unit drier and several degrees warmer. The repeated circulation of air through the unit reduces the relative humidity, giving very rapid but gentle drying.

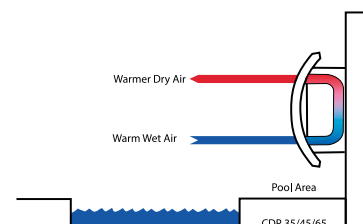
In swimming pool halls with large areas of windows, a solution in which the dehumidified and warm supply air is led through pipes under the floor and blown under the windows is a reliable choice. In this way condensing of the windows can be avoided.

Wall Mounted Version CDP 40/50/70



Wall mounted version CDP 40/50/70

Dimensions CDP 40/50/70			
	Height (mm)	Width (mm)	Depth (mm)
CDP 40	770	1010	326
CDP 50	770	1160	326
CDP 70	800	1495	326



CDP 40/50/70 units are designed for installation directly in the pool hall or area to be dehumidified.

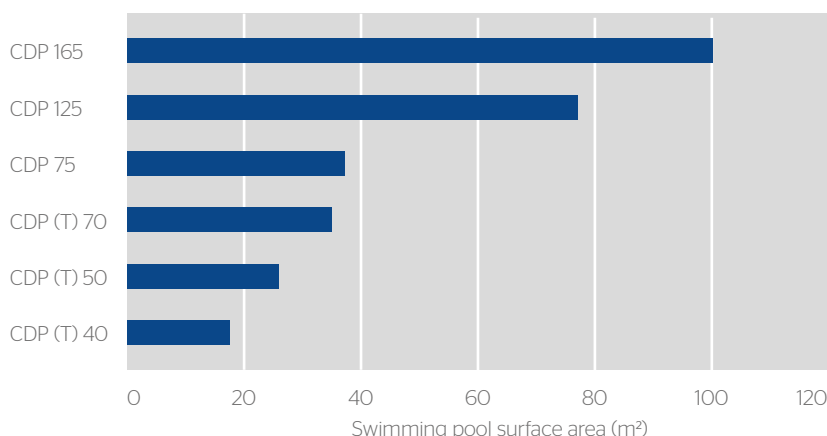
Remote control DRC1

A newly developed remote control allows reading and setting of relative humidity and temperature, alarms and service information.



Technical data CDP 40/50/70					
	Dehumidification capacity at 28°C / 60% RH / 24h	Air flow (m³/h)	Operating range / humidity %RH	Operating range / temperature (°C)	Weight (kg)
CDP 40	34	400	40 - 100	10 - 36	56
CDP 50	52	680	40 - 100	10 - 36	65
CDP 70	69	900	40 - 100	10 - 36	75

Quick selection guide



Technical data CDP(T) 40/50/70/75/125/165

Which unit to choose in a swimming pool hall depends on the surface area. This graph is intended as a guide only, providing approximate recommendations. The selection of the correct dehumidifier for swimming pool halls requires the consideration of several factors, e.g. air and water temperatures, usage levels and whether a floating cover is used.

Please consult your supplier for professional guidance as unit selection should be carried out only by qualified personnel to get an optimum solution.

Dantherm

Dehumidification

CDP Pool Dehumidification - Efficient dehumidification for aggressive environments

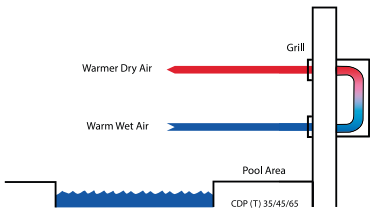
Through-Wall Mounted Version CDP (T) 40/50/70



Through-wall mounted version CDP (T) 35/45/65

Technical data CDP (T) 40/50/70					
	Dehumidification capacity at 28°C / 60% RH l/24h	Air flow (m³/h)	Operating range / humidity %RH	Operating range / temperature (°C)	Weight (kg)
CDP 40T	29	250	40 - 100	10 - 36	60/57
CDP 50T	42	500	40 - 100	10 - 36	74/68
CDP 70T	66	750	40 - 100	10 - 36	101/95

Dimensions CDP (T) 40/50/70			
	Height (mm)	Width (mm)	Depth (mm)
CDP 40T	680	890	290
CDP 50T	680	1192	290
CDP 70T	680	1735	290



CDP(T) 35/45/65 units are designed for installation in an adjacent room and are supplied with a through-the-wall duct kit with supply and return air grills.

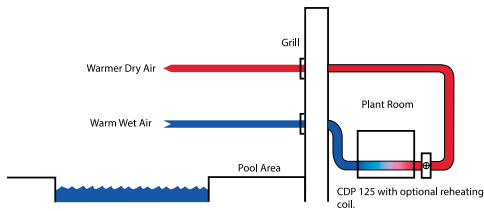
Ducted Version CDP 75/125/165



Ducted version CDP 75/125/165

Technical data CDP 75/125/165				
	Dehumidification capacity at 28°C / 60% RH l/24h	Air flow (m³/h)	Operating range / humidity %RH	Operating range / temperature (°C)
CDP 75	74	1500	40 - 100	20 - 38
CDP 125	124	2500	40 - 100	20 - 38
CDP 165	162	3600	40 - 100	20 - 38

Dimensions CDP 75/125/165				
	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
CDP 75	650	1155	725	130
CDP 125	850	1300	900	160
CDP 165	975	1400	1010	190



The humid air from the water's surface passes through a dehumidifier, leaving the supply air drier and several degrees warmer.

Flexible installation of the CDP

The CDP units are highly flexible regarding installation. They are designed for installation in plant rooms, with ducted supply and return air grills, but can also be installed directly in the room that needs dehumidification. A range of options are available for the CDP to meet individual requirements, including heating coils, outdoor air connection, wall-mount kit and floor mount kit. The CDP is also available with a water-cooled condenser allowing the excess heat to be used for pool or domestic hot water. The fresh air discharge can be from the top or from the side opposite to the air inlet. Both evaporator and condenser coils are epoxy-coated for higher corrosion resistance.

Features and benefits

- High quality product manufactured to exact standards
- Low energy consumption and impressive functionality
- Silent operation
- Pleasant design
- Easy to operate and control
- Designed to suit any plant room configuration
- Epoxy-coated coils

Thermalec

Titanium Electrical Heater

The Thermalec pool and spa heater range

Built using titanium elements, to the same exact standards traditionally associated with Thermalec® heaters, the THR TITANIUM range fulfils all the required electrical safety standards.



Size range from 3kW to 168kW

- Unique spiral flow allows efficient heat removal from the elements, minimising the scale and sediment build up.
- Unique design ensures cooler water from the filter pump does not strike the elements directly (giving longer life).
- Air generated from the pump passes harmlessly around the sides of the baffles and across the top of the heater elements (The heat pumps heat both air and water).
- The control thermostat is positioned to sense the temperature of incoming water and controls the pool to within 1°C.
- The safety thermostat senses the water temperature leaving the heater.
- Thermalec® heaters can be used in conjunction with other heating systems to provide year round heating solutions for your pool or spa.
- Each heater is designed with its own simple self diagnostic system.
- Heating elements are always submerged.

Standards

Thermalec® pool and Spa heaters are CE marked and comply with:

EU Council Directive 89/336/EEC & 93/068/EEC on Electromagnetic compatibility

EU Council Machinery Directive 98/37/EEC

EU Council Low Voltage Directive 2006/95/EEC & 72/23/EEC

Harmonised Standards: EN55014, EN55104, EN5501, EN5502, CEI801-2, CEI801-3 and EN60335-2-35

Materials of Construction

Heater vessel: Fusion epoxy coated cast iron

Element holding plate: uPVC

Gasket: Silicone rubber

Water connections: uPVC socket

Heater elements: Titanium sheath

Electrical enclosure: Powder coated steel

Control and indication

Water temperature cut-out: Factory set to trip at water outlet temperature of 52°C. Manual reset on front panel

Thermostats: Pressurised liquid filled capillary type

Pool temperature control: Analogue dial, calibrated 15°C to 45°C and graduated at 1°C intervals.

Mains indicator lamps: Red (mains power is on), Amber (filter pump interlock power present).

Status indicator lamps: Red (heater's ON/OFF switch ON), White (safety thermostat trip armed), Amber (pump interlock relay OK), Green (heating elements powered)

Operating data

Water inlet/outlet: Socket for 50mm or 2" NB pipe

Max. Water temperature: 52°C heater outlet

Operating pressure: 2.0 bar max.

Ambient temperature: 40°C max.

Pool temperature control range: 15°C to 45°C

Thermostat operating difference: 0.5 C°

Thermalec

Titanium Electrical Heater

The Thermalec pool and spa heater range - main features

The heaters in the Thermalec® pool and spa heater range are classified in series according to the body size. There are six series in the range. Each series offers a choice of nominal power rating. The following tables summarise the main features of the range and power ratings available in each series.

Feature	Series Reference					
	12THR	24THR	36THR	72THR	120THR	ZENITH Ti
Body in robust fusion epoxy coated cast iron	●	●	●	●	●	●
Elements in corrosion resistant titanium	●	●	●	●	●	●
Suitable for sea / salt-water pools and spas	●	●	●	●	●	●
Pressure: tested to 4 bar, operating 2 bar max.	●	●	●	●	●	●
Safety pressure relief valve(s)	●	●	●	●	●	●
Easy installation - uPVC solvent weld sockets	●	●	●	●	●	●
Easy element replacement	●	●	●	●	●	●
Water drain for winterisation or repair	●	●	●	●	●	●
Removable top plate for easy vessel inspection	●	●	●	●	●	●
Water flow direction easy to reverse	●	●	●	●	●	●
Premium quality electrical components	●	●	●	●	●	●
Heavy duty contactors	●	●	●	●	●	●
Power isolation ON/OFF switch	●					
Power isolation circuit breakers		●	●	●	●	●
Filter pump safety interlock	●	●	●	●	●	●
Fused control circuit protection	●	●	●	●	●	●
Liquid filled capillary control and safety thermostats	●	●	●	●	●	●
Two stage temperature controller				●	●	●
Time delay switch powers elements in 2 stages				●		
Time delay switch powers elements in 3 stages					●	
Time delay switch powers elements in 4 stages						●
At least 6 indicator lamps to monitor operation	●	●	●	●	●	●
Analogue heater outlet water temperature indicator			●	●	●	●
High temperature safety trip with manual reset	●	●	●	●	●	●
Protection in the event of pool filter pump failure	●	●	●	●	●	●
Special design enclosure for spa applications	●					
Enhanced "Deluxe" model available		○	○			
Suitable for fish pond and aquarium use	○	○	○	○	○	○
Special models available for marine, central heating & renewable energy applications	○	○	○	○	○	○
Available for non-standard power supplies	○	○	○	○	○	
CE Mark - compliant with all relevant EU Directives	●	●	●	●	●	●
Two year return-to-base guarantee	●	●	●	●	●	●

● *Standard feature* ○ *Available as an option*

Power ratings of Thermalec® heater standard models

Standard Models - Installed nominal power rating (kW)*																		
Series Ref	3	4	6	7.5	8	9	10	12	15	16	18	21	24	30	36	48	60	72
12THR	■	■	■	■		■	■	■										
24THR									■		■	■	■					
36THR														■	■			
72THR																■	■	■
120THR																	■	■
ZENITH Ti					■						■		■				■	■

Single phase power supply only. ■ *Single or three phase power supply.* ■ *Three phase power supply only.* ■

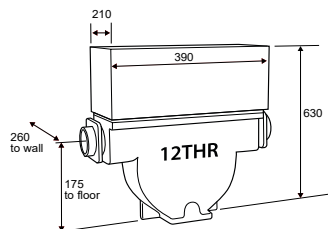
*based on standard power supply 230V/1 ph/50Hz or 400V/3ph/50Hz



Thermalec

Titanium Electrical Heater

12THR Series (3kW - 12kW)



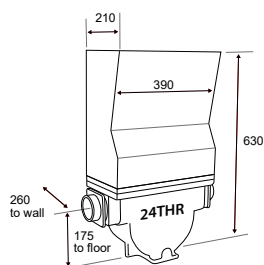
Packed dimensions: 425 x 450 x 190mm

Packed weight: 26kg

Code	Standard Power Supply: 230V/1ph/50Hz or 400V/3ph/50Hz				
	Load (kW)	Current (Amps) 1-ph/3-ph	Elements (no. x nominal kW)	1-phase version	3-phase version
12THR3	3	14/n.a.	1 x 3 kW	Yes	No
12THR4	4	17/n.a.	1 x 4 kW	Yes	No
12THR6	6	27/n.a.	2 x 3 kW	Yes	No
12THR7.5	7.5	33/11	3 x 2.5 kW	Yes	Yes
12THR9	9	40/13	3 x 3 kW	Yes	Yes
12THR12	12	53/17	3 x 4 kW	Yes	Yes

Water Flow Rate Ranges							
	3 kW	4 kW	6 kW	7.5 kW	9 kW	10 kW	12 kW
Max. (hard water) l/min	152	152	152	152	152	152	152
Max. (soft water) l/min	76	76	76	76	76	76	76
Minimum l/min	4.5	6	9	11	14	15	18

24THR Series (15kW - 24kW)



Packed dimensions: 730 x 520 x 300mm

Packed weight: 42kg

Code	Standard Power Supply: 400V/3ph/50Hz		
	Load (kW)	Current (Amps)	Elements (no. x nominal kW)
24THR15	15	22	6 x 2.5 kW
24THR18	18	26	6 x 3 kW
24THR21	21	31	3 x 4 kW + 3 x 3 kW
24THR24	24	35	6 x 4 kW

Water Flow Rate Ranges				
	15 kW	18kW	20kW	24kW
Max. (hard water) l/min	303	303	303	303
Max. (soft water) l/min	152	152	152	152
Minimum l/min	23	27	32	36

Thermalec

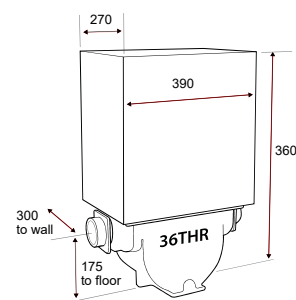
Titanium Electrical Heater

36THR Series (30kW - 36kW)



Code	Standard Power Supply: 400V/3ph/50Hz		
	Load (kW)	Current (Amps)	Elements (no. x nominal kW)
36THRX30	30	44	3x4 kW + 6x3 kW
36THRX36	36	53	9x4 kW

Water Flow Rate Ranges			
	30 kW	36 kW	
Max. (hard water) l/min	300	300	
Max. (soft water) l/min	150	150	
Minimum l/min	46	55	



Packed dimensions: 660 x 450 x 330mm

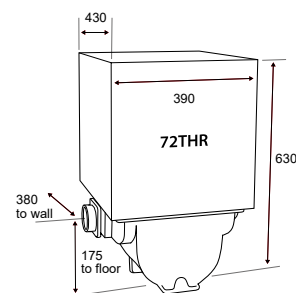
Packed weight: 52kg

72THR Series (48kW - 72kW)



Code	Standard Power Supply: 400V/3ph/50Hz		
	Load kW	Current Amps	Elements (no. x nominal kW)
72THRX48	48	73	12x4 kW
72THRX60	60	91	15x4 kW
72THRX72	72	108	18x4 kW

Water Flow Rate Ranges			
	48 kW	60 kW	72 kW
Max. (hard water) l/min	300	300	300
Max. (soft water) l/min	150	150	150
Minimum l/min	73	91	109



Packed dimensions: 660 x 450 x 470mm

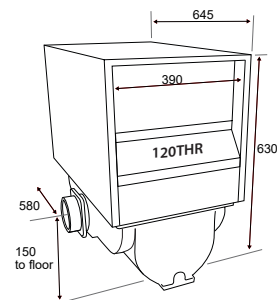
Packed weight: 81kg

120THR Series (84kW - 120kW)



Code	Standard Power Supply: 400V/3ph/50Hz			
	Load (kW)	Current (Amps)	Elements (no. x nominal kW)	
120THRX84	84	122	21x4 kW	
120THRX96	96	140	24x4kW	
120THRX108	108	157	27x4 kW	
120THRX120	120	174	30x4 kW	

Water Flow Rate Ranges				
	84 kW	96 kW	108 kW	120 kW
Max. (hard water) l/min	700	700	700	700
Max. (soft water) l/min	350	350	350	350
Minimum l/min	127	146	164	182



Packed dimensions: 750 x 580 x 750mm

Packed weight: 140kg

Pool Heating

Plate Type Heat Exchangers

Standard Plate Heat Exchangers AISI 316 / AISI 316L

Atecpool offers 'Plate Type Heat Exchangers': copper brazed, semi-welded and all welded plate heat exchangers. Big range of plate type heat exchangers. Atecpool has the optimal technical solution for any possible task, with connection sizes from Ø15mm - Ø500mm, covering a liquid flow of 50L/hours - 2000 m³/hour.



Highlights:

- High operation safety
- Exact energy-transfer
- Low running costs
- Energy saving
- Environmentally-friendly

Advantages

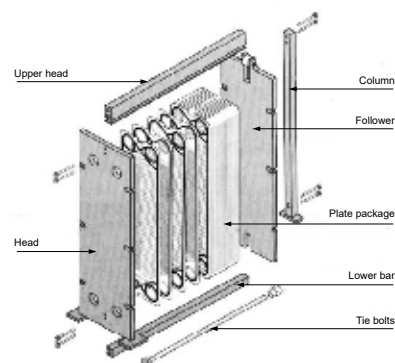
- The plates and plate patterns are constructed to maintain a high thermal efficiency with a low pressure drop
- There are two pattern designs available with different pressing angles giving respectively high/low turbulence flow, dependant on the given selection
- The inlet channels allow for maximum strength in the inlet area, whilst maintaining minimal contact points, reducing blockage at the flow distribution zone
- The inlet design ensures even distribution of the liquids across the heating surface
- The gasket is placed in a dedicated retaining gasket groove. This secures the elasticity of the gasket even after a long time of compression

Plate Design

The construction of the inlet part makes for a perfect distribution of the liquids across the heating surface. The inlet part is increased and supplied with grooves preventing "dead spots" which could cause the growth of bacteria in the plate heat exchanger. The inlet with grooves secures a strong inlet part with a minimum number of contact points.

The inlet parts are constructed with a leakage drain zone fulfilling the AAA specifications.

The heat transfer plates are designed with a gap between plates up to 11mm depending on the plate type. This is because the pattern of the plate pressing has horizontal waves maintaining no "plate contact points" in the flow direction, the flow channels remain free of obstacles allowing the media/particles to flow freely.



Note: Please ask for selection of Heat Exchanger for your pool.
Selection chart/datasheet on request.

