

Innovations In Green Energy

We're Here Today To Help You Save For Tomorrow



(Since 1968)

PecolTM

Innovation In Green Energy
(since 1968)

www.pecol.com.my



We're Here Today To Help You Save For Tomorrow



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THE COMPANY

PACIFIC ENGINEERING SDN BHD, established in 1968 as a result of Malaysian-Australian joint venture has over the years created a name as a premier Hot Water System Solution Provider through its **PECOL** brand name. In 2017, we established **PECOL ENGINEERING SDN BHD** to further enhance the brand name and quality in energy saving products and solutions.

Our corporate headquarters and manufacturing facility is located in Petaling Jaya, Selangor Darul Ehsan. We are the pioneers in the manufacture of hot water heaters in Malaysia under the trade name **PECOL** and were duly accorded "pioneer status" by The Malaysia Industrial Development Authority (MIDA).

Today our **PECOL** range of products has grown to be the industry leader in Energy Saving Water Heating technology for both industrial and commercial application such as:

Hot Water Storage Heater

Hybrid Hot Water Storage Heater

Solar Hot Water System

Commercial Heat Pump Hot Water Technology

Renewable Energy Mini Heat Pump

Our Vision:

To be a global leader in the manufacturing of quality and innovative hot water systems.

Our Mission:

To be the best Total ECO Hot Water Systems Provider of Choice in Asia through Delivering Continuous Innovations and Excellent Customer Service.

OUR EXPERTISE

- Consultancy Advice on Design, Supply, and Installation of Hot Water Heating System for Domestic and Commercial Projects
- Continuous improvement in Innovative Energy Saving Technologies via R&D
- Quality and Efficient Before and After Sales Service

PECOL Internationals Projects



Innovations in Green Energy
(since 1968)



Hilton Hotel Cebu, Philippines



Law Enforcement Academy, Singapore



Coco Beach Hotel, Maldives



Kikko's Resort, Philippines



Marco Polo Hotel, Philippines



Pan Pacific Hotel, Singapore



Orchard Golf Resort, Singapore



Singapore Raffles Hospital



Grand Copthorne, Singapore



Lao Cai Hotel, Vietnam



Prince Hotel, Chiangmai



Mandarin Oriental Hotel, Singapore



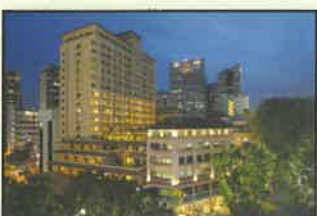
Armara Hotel, Singapore



Kempinski Hotel Jakarta, Indonesia



Nagoya Plaze Hotel, Indonesia



Orchid Parade Hotel, Singapore



Singapore General Hospital



Taal Vista Hotel, Philippines



Novotel Hotel Indonesia



Shangri-La Hotel, Singapore



Terminal 3, Changi Airport Singapore

Hot Water Storage Heater

Domestic and Commercial

PecolTM
Innovation In Green Energy
(since 1968)

Electric Hot Water Storage Heaters

Domestic (Pressure Type)



Easy installation.

Compact and versatile.

Saves space.

Various choices on size and mounting.

Minimum maintenance.

Commercial (Pressure Type)



Reliable and efficient.

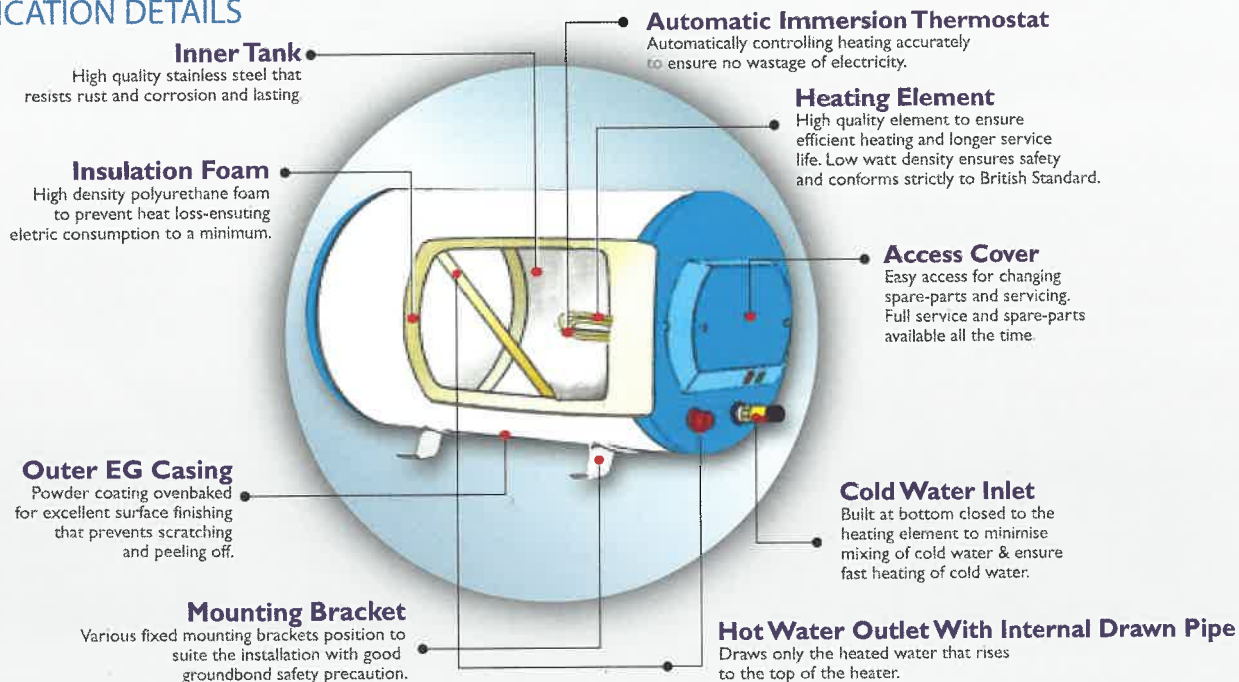
Plentiful supply of hot water.

Meets international quality and safety standards.

Reliable in-house before and after service.

Manufacturer warranty.

IDENTIFICATION DETAILS



Product's Warranty of Electric Storage Water Heater



In house
after-sales service



Wide range of standard
sizes and tailor-made



Built-in Triple safety
for maximum safety



Horizontal and vertical
mounting to suit the site



5 years stainless
steel inner tank



Easy installation and
multiple outlets
application



High Quality
Stainless Steel



Safety Pressure
Relief

Domestic (Pressure Type) - Hot Water Storage Heater

MODELS	LITRE	Imp. GALLON	DIMENSION (mm)	WEIGHT (kg)	POWER (kW. Single Phase)
PPS 23	23	5	Ø360 x 460	13.5	3kW
PPS 25	25	5.5	Ø360 x 508	14.9	3kW
PPS 27	27	6	Ø360 x 560	16.2	3kW
PPS 34	34	7.5	Ø360 x 610	16.3	3kW
PPS 45	45	10	Ø360 x 760	19.2	3kW
PPS 57	57	12.5	Ø460 x 610	21.3	3kW
PPS 68	68	15	Ø460 x 710	23.0	3kW
PPS 91	91	20	Ø460 x 880	28.2	3kW
PPS 114	114	25	Ø460 x 1040	35.3	3kW
PPS 136	136	30	Ø460 x 1220	42.3	3kW

Commercial (Pressure Type) - Hot Water Storage Heater

MODELS	LITRE	Imp. GALLON	DIMENSION (mm)	WEIGHT (kg)	POWER (kW. Phase)
PPS 136	136	30	Ø510 x 1220	54.7	9kW, 3 phase
PPS 182	182	40	Ø510 x 1600	67.6	9kW, 3 phase
PPS 227	227	50	Ø510 x 1950	80.1	9kW, 3 phase
PPS 273	273	60	Ø610 x 1600	93.0	9kW, 3 phase
PPS 341	341	75	Ø610 x 1930	112.5	9kW, 3 phase
PPS 364	364	80	Ø610 x 2040	117.6	9kW, 3 phase
PPS 454	454	100	Ø740 x 1650	142	Customised to the requirement.
PPS 908	908	200	Ø990 x 1750	256	
PPS 1362	1362	300	Ø990 x 2350	331	
PPS 1816	1816	400	Ø1400 x 1900	408	
PPS 2270	2270	500	Ø1400 x 2300	464	
PPS 2724	2724	600	Ø1400 x 2700	531	
PPS 3178	3178	700	Ø1700 x 2000	602	
PPS 3632	3632	800	Ø1700 x 2400	649	
PPS 4086	4086	900	Ø1700 x 2600	696	
PPS 4540	4540	1000	Ø1700 x 2800	753	
PPS 5448	5448	1200	Ø2000 x 2500	1130	
PPS 6810	6810	1500	Ø2000 x 3000	1270	
PPS 9080	9080	2000	Ø2000 x 3800	1951	

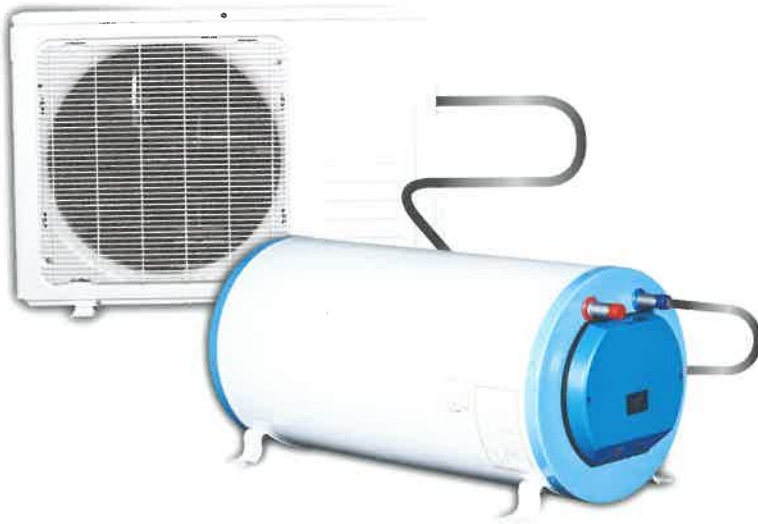
Heating time for electric storage heaters

MODELS	LITRE	Imp. GALLON	POWER (KW)	Time in minutes (water from 28°C to 60°C)
PPS 23	23	5	3kW	17
PPS 25	25	5.5	3kW	19
PPS 27	27	6	3kW	20
PPS 34	34	7.5	3kW	25
PPS 45	45	10	3kW	34
PPS 57	57	12.5	3kW	42
PPS 68	68	15	3kW	50
PPS 91	91	20	3kW	67
PPS 114	114	25	3kW	84
PPS 136	136	30	3kW	101
PPS 136	136	30	9kW	33
PPS 182	182	40	9kW	45

MODELS	LITRE	Imp. GALLON	POWER (KW)	Time in minutes (water from 28°C to 60°C)
PPS 227	227	50	9kW	56
PPS 454	454	100	9kW	112
PPS 681	681	150	18kW	84
PPS 908	908	200	18kW	112
PPS 1362	1362	300	18kW	168
PPS 1816	1816	400	18kW	225
PPS 2270	2270	500	27kW	187
PPS 3632	3632	800	27kW	300
PPS 4540	4540	1000	36kW	281
PPS 5448	5448	1200	36kW	337
PPS 6810	6810	1500	36kW	422
PPS 9080	9080	2000	54kW	375

Hybrid Hot Water System

Waste Heat Reclaim Water Heater



Hybrid Hot Water Storage Heater

PECOLS Aircon Water Heating System utilises otherwise wasted heat energy generated by any split unit air-conditioner to provides an alternative source for heating water.

The system is ideal for houses, condominiums, apartments, hotels, clubhouses, resorts, factories and even high-rise buildings. It's proven reliable and we are backing it with a 5-years warranty on tanks.

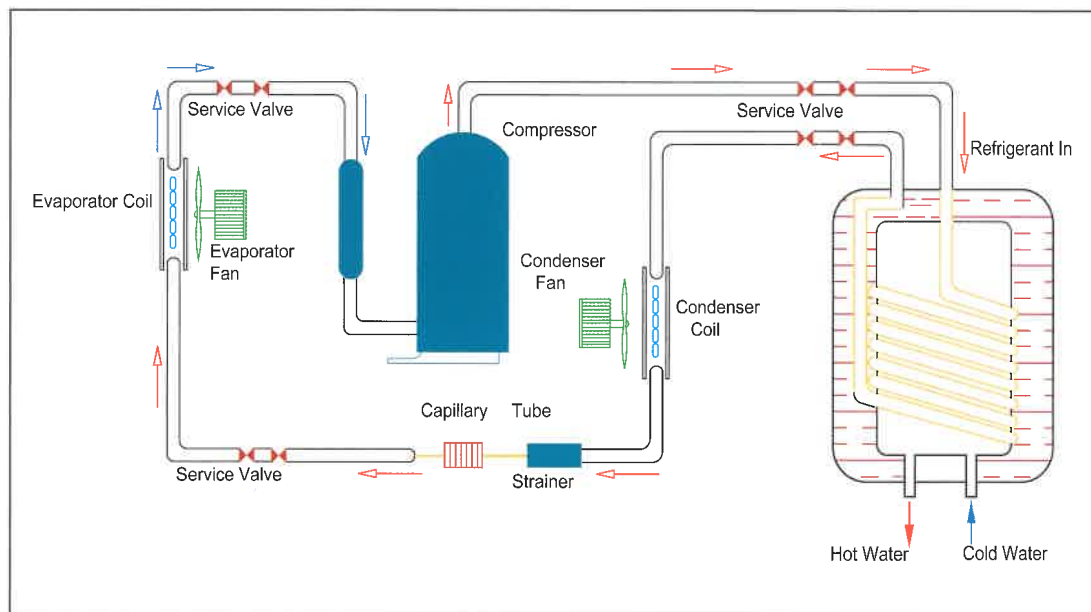
- 1 **Zero Operating Cost**
PECOL Aircon water heater generating hot water with zero operating cost.
- 2 **Great Savings on Electricity**
PECOL Aircon Water heater reduces work done by the condenser of the air-conditioner. Thus, less wattage of electricity is consumed.
- 3 **Environmental friendly**
By recycling the waste energy of the air-conditioner, the PECOL Aircon water heater helps to conserve the environment.
- 4 **Safe and Quiet**
The system does not have flame, exhaust, fume and it does not overheat. It also has no moving parts.
- 5 **Weather Resistant**
Built from highly durable material, the product can withstand any weather condition.
- 6 **Minimum Maintenance**
No parts replacement, no oiling or lubrication required.
- 7 **Pay back period (Return on Investment)**
Compared to the electric heater, the extra investment spent can be recovered within 12 months.

Leader in Water Heating Technology



- Free hot water, 100% savings on electric bills.
- Easy installation.
- Saves space.
- Various choice on size and mounting.
- Minimum maintenance.
- Reliable and efficient.
- Plentiful of hot water.
- Meets international quality and safety standards.
- Reliable in-house before and after service.
- Able to function with all around models.
- Manufacturer warranty.

Working Principle of the Hybrid Hot Water Storage Heater



Specification - Pecol Hybrid Hot Water Storage Heater

MODELS	UOM	PAC 7.5	PAC 10	PAC 12.5	PAC 15	PAC 20	PAC 25	PAC 30	PAC 40
Normal Outlet Water Temperature	deg C / F	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140
Tank Capacity	L / Gal	34/7.5	45/10	57/12.5	68/15	91/20	114/25	136/30	182/40
Unit Diameter	cm / in	36/14	36/14	46/18	46/18	46/18	46/18	46/18	51/20
Unit Length (Overall)	cm / in	63/25	79/31	63/25	73/29	88/35	107/42	125/49	160/63
Unit Weight - Empty	kg	16.5	19.5	21.5	23.2	28.4	48.6	55.1	67.6
- Full	kg	50.5	60.5	78.5	91.2	119.4	162.6	191.1	249.6
Installation Position		Vertical or Horizontal							
Tank Construction		Premium Grade Stainless Steel							
Outer Casing		Oven Baked Powder Coated E.G. Sheet							
Insulation		High Density Polyurethane 40 kg / m ³							
Water Inlet / Outlet Connection		½"BSPT	½"BSPT	½"BSPT	½"BSPT	½"BSPT	½"BSPT	¾"BSPT	¾"BSPT
Max Operating Pressure - Water	kPa	700	700	700	700	700	700	700	700
- Refrigerant	MPa	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Refrigerant Inlet / Outlet Connection		¾"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Standby Electrical Heating Element		3kW/ 1 phase / 50Hz							

MODELS	UOM	PAC 50	PAC 60	PAC 75	PAC 100	PAC 150	PAC 200	PAC 300
Normal Outlet Water Temperature	deg C / F	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140	60 / 140
Tank Capacity	L / Gal	227/50	273/60	341/75	455/100	682/150	909/200	1385/300
Unit Diameter	cm / in	51/20	61/24	61/24	74/29	74/29	99/39	99/39
Unit Length (Overall)	cm / in	195/77	160/63	193/76	169/66	244/96	182/72	252/99
Unit Weight - Empty	kg	80.3	93.2	112.5	141.8	188.2	255.2	330.9
- Full	kg	307.3	366.2	453.5	596.8	870.2	1164.2	1695.9
Installation Position		Vertical or Horizontal						
Tank Construction		Premium Grade Stainless Steel						
Outer Casing		Oven Baked Powder Coated E.G. Sheet						
Insulation		High Density Polyurethane 40 kg / m						
Water Inlet / Outlet Connection		¾"BSPT	¾"BSPT	¾"BSPT	1"BSPT	1"BSPT	1½"BSPT	2"BSPT
Max Operating Pressure - Water	kPa	700	700	700	700	700	700	700
- Refrigerant	MPa	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Refrigerant Inlet / Outlet Connection		3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Standby Electrical Heating Element		3kW/ 1 phase / 50Hz			9kW/ 3 phase / 50Hz			

Solar Hot Water System

Delivering Sustainable



Pecol Solar Hot Water System is a proven system that has been manufactured and developed over the years by Pacific Engineering Sdn Bhd. Our latest solar hot water system is the result of extensive research and development which incorporates the most advanced technology from USA. The PECOL design team had created this modern, durable and high efficiency system that will blend beautifully with most housing styles to meet your hot water heating needs.

Environmentally friendly, reduces your carbon footprint.



Free hot water from the sun.

Enhanced energy retention.

Ultra fast heating.

Built to last.

Meets international quality and safety standard.

Reliable in house before and after sales services.

Reliable and efficient.

Air tight seal design.

Pollution free.

Manufacturer warranty.

Solar Hot Water System

- 1 Ultra Solid Frame**
Premium grade material are used throughout the construction of every Pecol Solar Hot Water System.
- 2 Ultra Fast Heating**
Pecol solar water system has been precisely engineered to meet the need for constant hot water. It trap solar energy at a faster rate with its larger surface of area to allows better heat absorption.
- 3 Extra Energy Saving**
Pecol crystal clear low iron tempered glass specially designed to allow the ultimate transmission of sunlight with negligible emission of heat directly onto the ultra black chromatic collector. The near 'Perfect Bank' UBC collector has an extra absorption power to deliver higher performance compared to any other collector.
- 4 Best Insulation**
Pecol uses pressure injected high density polyurethane foam to restrict minimal heat lost to the atmosphere surrounding even at tremendous temperature difference.
- 5 Built to Last**
Quality workmanship and quality material are pecol commitment. We assure high durability to give great value to your investment.
- 6 Hot Water All Year Round**
Pecol comes with built in electrical backup for heating element for additional hot water needed during monsoon season efficiently maintain desired temperature anytime during rainy days.

7 Prolong Hot Water Temperature

Pecol has incorporated soft-flow water spreader to prevent make-up cold water from mixing freely with the heated water.

8 Pressure Solar Tank

Pecol's optimum water flow is designed to enable the right flow of hot water throughout your entire hot water plumbing system.

9 Tougher Protection

Pecols uses an UV treated air-light seal all around the side and goes all round the solar hot water tank to prevent rain water and other corrosive particles in the air seeping through.

10 State-Of-The-Art Design

The trendy and stylish slim like design is designed to blend into harmony of any roof profile.

11 Maintenance Free

Pecols has perfected the welds by using high technology robotic welding also to compressed seal by the quality brass fittings are used form preffered system.

12 Warranty

Pecols provide 10 years warranty after purchased.

Specification - Pecol Solar Hot Water System

Total Capacity	66 Gal Or 300 L
Overall Length	2439mm
Overall Width	2286mm
Overall Height	508mm
Outer Tank Diameter	508mm
Outer Tank Length	2296mm
Nominal Working Pressure	500kPa
Cylinder Test Pressure	1500kPa
Relief Valve Settings	700kPa
Weight Empty (Total)	128kg
Weight Full (Total)	432kg
Outer Cylinder Case Material	Zincalume
Tank Insulation	Polyurethane
Thermostat	Sunvic

TANK INSULATION

A) Insulation Material	Polyurethane
B) Method	High Pressure Injection
C) Weight	10kg (approx)

SOFT FLOW WATER SPREADER

A) Diameter	30mm
B) Length	1.6m
C) Material Specification	Stainless Steel

TANK

A) Cylinder Body Length	2133mm
B) Cylinder Body End	64mm
C) Cylinder Diameter	410mm
D) Cylinder Material	1.5mm ss 304

COLLECTOR CASING

A) Material	Zincalume
B) Thickness	0.45mm
C) Vent Holes	2
D) Trim Depth	15mm

LOW IRON CLEAR TEMPERED GLASS

A) Thickness	4mm
B) Size	994mm x 1918mm
C) Insulation Material	Rockwool

COLLECTOR

A) Length	1930mm
B) Width	1003mm
C) Height	51mm
D) Absorber Plate Design	Tube & Fin
E) Absorber Plate Material	Aluminium
F) Absorber Plate Thickness	1.2mm
G) Nett Absorber Area (Single)	2sq.m
H) Absorber Plate Coating	Ultra Black Chromatic
I) Absorber Coefficient	0.95
J) Emission Coefficient	0.1
K) Coefficient Tolerance	+/-0.02
L) No. of Riser Tubes	6
M) Riser Tube Material Thickness	0.71
N) Riser Bond	Thermal Bond
O) Riser Plate Spacing	139mm
P) Riser Joint Type	Brazed
Q) Panel to Panel Joint	22mm Compression Fitting
R) Leak Test Pressure	800kPa
S) Over Pressure Test	1500kPa

OVERALL DIMENSIONS

A) Overall Tank Length	2286mm
B) Overall Length of System	2438mm
C) Tank Height	508mm
D) Collector Length	1930mm
E) End Cap Width	41mm
F) Collector Width (Single)	1003mm
G) Collector Width (Complete)	2199mm
H) Tank Width	508mm
I) Tank Height	508mm
J) Overall Length of System	2286mm
K) Collector Height	51mm

END CAP

A) End Cap Seal Material	EPDM Blend UV Protected
B) End Cap Seal Width	13mm
C) End Cap Material	0.9mm Powder Coated Steel
D) End Cap Width	41mm
F) End Cap Diameter	508mm

Commercial Heat Pump

Hot Water Technology

PECOL Heat Pump technology is a reverse refrigeration technology that reaches a high level of efficiency and high heat temperature of hot water. It absorbs heat from the surroundings and raises it to usable temperature for heating.

1) Lowest Operating and Hot Water Cost

For the same amount of water to be heated the PECOL Heat Pump provide the MINIMUM OPERATING AND WATER COST by transferring the surrounding heat instead of generating heat by electric resistance, gas and oil.

2) Pollution Free & Safer

PECOL Heat Pump operate with R134A refrigerant.

3) Practically Maintenance Free

PECOL Heat Pump is fully automatic and requires minimal maintenance.

4) Free Cool Air

PECOL Heat Pump generates a lot of cold air with no added cost. This large amount of cold air can be channeled to cool the laundry room, lift motor room, kitchen or for any other purpose.

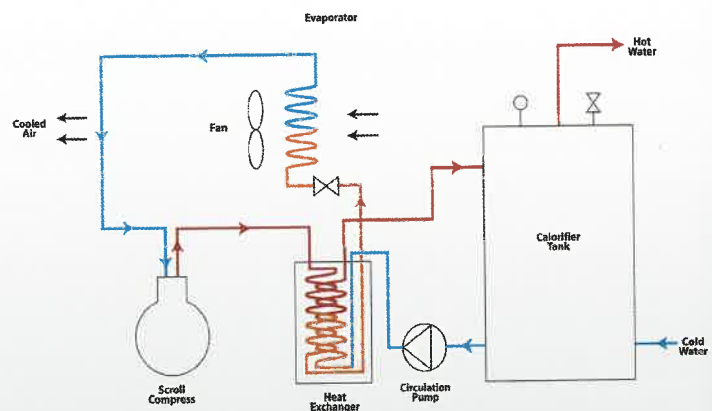
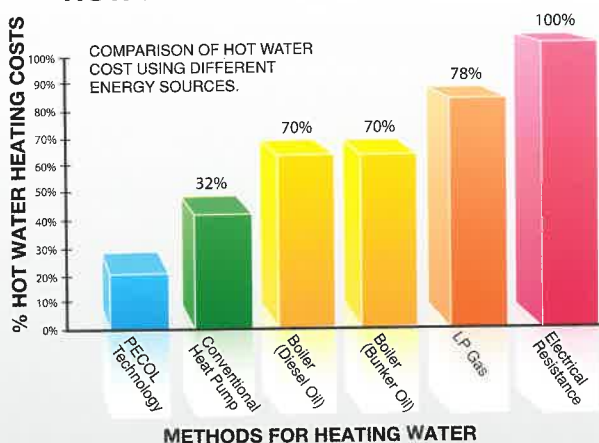
5) Space Flexibility

The wide range of PECOL Heat Pump provide space flexibilities to ease installation at constrained areas.

6) Return Of Investment (ROI)

Fast ROI payback.

HOW PECOL SAVES MONEY



Note: Pecol also support Water to Water System

Designing for maximum coefficient of performance (COP) and trouble free maintenance

The COP of heat pump depends on a number of factors :

- 1) The temperature range of heat pump
- 2) The type of refrigerant used
- 3) The temperature approach on evaporator and condenser
- 4) The power gearing of the compressor

Class	Range of Temperature Difference	COP
I	18°C	5.0 - 8.0
II	33°C	3.3 - 5.0
III	43°C	3.0 - 3.5

As a general rules, the higher the temperature range, the lower the COP

Specification - PECOL Heat Pump

Model		PHM3	PHM5	PHM7.5	PHM10	PHM15	PHM20	PHM25	PHM30	PHM40
Compressor Rating	kW	2.25	3.75	5.62	7.5	11.25	15	18.75	22.5	30.0
Heating Capacity	kW/Hr	9	15	22.5	30	45	60	75	90	120
	Btu/Hr	30708	51180	76702	102360	153540	204720	255900	307080	409440
Cooling Capacity	kW	6.6	11.0	16.4	21.9	32.6	43.2	52.2	62.1	82.8
	RT (tons)	1.8	3.1	4.6	6.2	9.3	12.3	14.8	17.6	23.5
Max Running Current	Ampere/3 Phase	10	11.9	14.5	16	22.9	28.5	40	48	60
Heating COP		4								
Refrigerant		R134A								
Square Model	Dimension L X W X H (mm)	1067x890x483	1220x1169x760		1372x1169x900		1372x1169x1060			
	Unit Weight (kg)	160	210	260	300	330	400			
Vertical Model	Dimension L X W X H (mm)		1220x600x1473		1372x600x1778		1372x600x1982	2032x600x1651		2030x635x1982
	Unit Weight (kg)		195	245	275	315	375	515	550	675

Note: Pecol Water to Water Heat Pump using chiller condenser water as heat source can be made to requirement.
Special capacities and dimensions other than shown above can be made to requirement.
Specifications are subject to modification without prior notice.



Calorifier Capacity

Model	Capacity Litre (Gal.)	Outer Container Dimension (mm)	Empty Weight (kg)	Loaded Weight (kg)
PACHM100	454 (100)	ø700 x 1700	142	597
PACHM200	908 (200)	ø1000 x 1800	256	1165
PACHM300	1362 (300)	ø1000 x 2500	331	1695
PACHM400	1816 (400)	ø1400 x 1900	408	2226
PACHM500	2270 (500)	ø1400 x 2300	464	2736
PACHM600	2724(600)	ø1400 x 2700	531	3258
PACHM700	3178 (700)	ø1700 x 2000	602	3784
PACHM800	3632 (800)	ø1700 x 2400	649	4285
PACHM900	4086 (900)	ø1700 x 2600	696	4787
PACHM1000	4540 (1000)	ø1700 x 2800	753	5298
PACHM1200	5448 (1200)	ø2000 x 2500	1130	6585
PACHM1500	6810 (1500)	ø2000 x 3000	1270	8088
PACHM2000	9080 (2000)	ø2000 x 3800	1951	11042

Note: Special capacities and dimensions other than shown above can be made to order.

The PECOL calorifier:

- 1) Allow the system to meet period of high peak hot water demand.
- 2) Provide hot water temperature stratification required by the heat pump for efficient operation.
- 3) Properly sized capacity with correct thermostat differential setting prevent short cycling.

PECOL commercial calorifier

Adequate storage capacity is official to maximise the Pecol heat pump water heater system performance, water is circulated between the storage tank and the heat pump unit by the built in PECOL circulating pump.

The water is heated approximately 8°C each times it passes through the heat pump unit. The tank temperature gradually rises until the set point of the thermostat control is reached and the heat pumps automatically shuts off.

Renewable Energy Mini Heat Pump

Save up to 75% of your heating bills

PecolTM
Innovation In Green Energy
(since 1968)

Pecol- based on our Revolutionary Technology - Energy Multiplier, the Mini Heat Pump can effectively Save Up To 75% of your Water Heating Bills.

Ideal for your entire household's hot-water supply, 24 hours a day.

On top of that, you will also enjoy cool air generated as a by-product of the system.

Leader in Water Heating Technology.



Economical, 75% savings on heating bills.

Minimum maintenance.

Lower cost per unit energy output.

Meets international quality and safety standards.

Reliable and efficient.

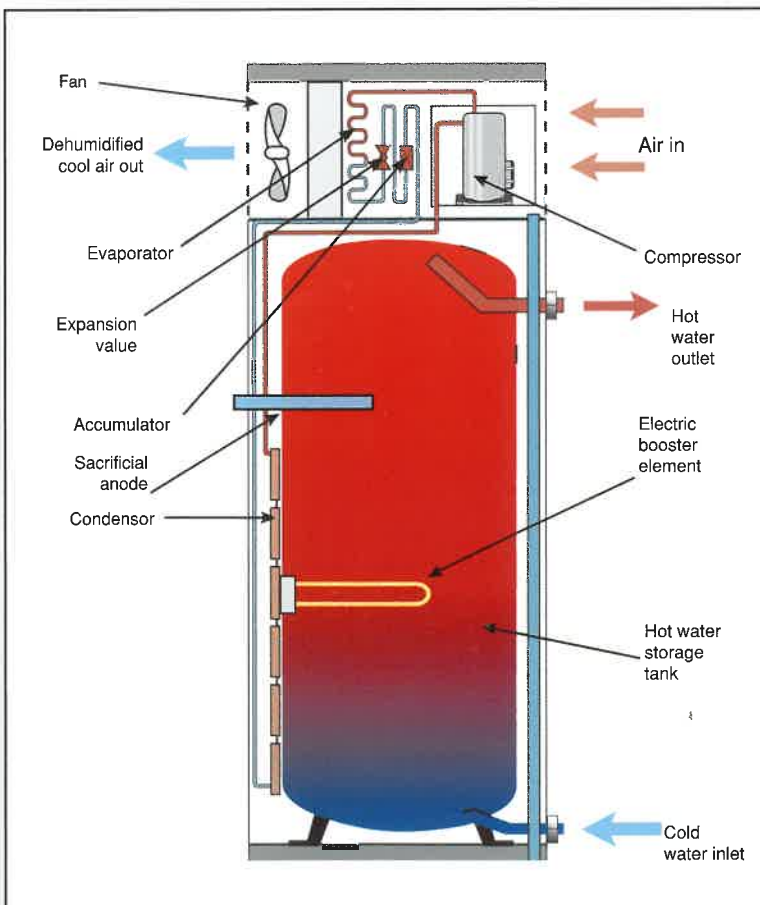
Reliable in-house before and after sales service.

Saves space.

Built to last.

Pollution free.

Manufacturer warranty.



Renewable Energy Mini Heat Pump

This Energy Saving system work on the same principle as an air conditioner in the reverse cycle.

The compressor compresses the refrigerant vapor and directs the hot compressed vapor refrigerant to the copper pipe heat exchanger connected to the water storage tank. This makes the coil to act as the condenser and gives out heat energy that is transferred to the water in the storage tank.

The cooled liquid refrigerant is then passed through the liquid receiver to filter the liquid content from the refrigerant vapor. The filtered refrigerant is expanded through expansion valve and is passed through the evaporator inside or outside the unit where heat from the surrounding is absorbed into the vapor and cold air is blown out. The refrigerant then flows back to the compressor to complete one cycle of process.

This heating process will keep running until water temperature reaches 60°C. Temperature and pressure relief valve is used to ensure the pressure and temperature of the storage water does not exceed the set limits.

FREE COOLED AIR is the by-product of the system.

Specifications - Mini Heat Pump

		MODELS		
	Unit	MHP 30	MHP 50	MHP 80
Maximum Outlet Water Temperature	deg C (F)	60 (140)	60 (140)	60 (140)
Tank Capacity	litres (gal)	136 (30)	227 (50)	363 (80)
Unit Diameter	mm (in)	510 (20)	610 (24)	740 (29)
Unit Height (Overall)	mm (in)	1650 (65)	1775 (70)	1828 (72)
Unit Weight (Empty)	kg	71.2	83.1	120.6
Unit Weight (Full)	kg	207.2	310.1	483.6
Installation Position	-	Vertical	Vertical	Vertical
Tank Construction	-	Premium grade stainless steel		
Outer Casing	-	Oven baked powder coated E. G. sheet		
Insulation	-	Polyurethane of density 40 kg/m ³		
Water Inlet / Outlet Connection	-	3/4"BSPT	3/4"BSPT	1"BSPT
Drain Pipe Connection	-	1"BSPT	1"BSPT	1"BSPT
Safety Value Connection	-	3/4"BSPT	3/4"BSPT	3/4"BSPT
Max. Operating Pressure				
Water	kPa	700	700	700
Compressor Rating	kW (HP)	0.75 (1.0)	1.1 (1.5)	1.5 (2.0)
Refrigerant		R134A	R134A	R134A
Refrigerant Inlet / Outlet Connection	-	3/8"	1/2"	5/8"
Ventilation Fan Rating	Watts (HP)	150 (1/5)	180 (1/4)	220 (1/3)
Standby Electric (Capacity)	kW	3	3	3
Heating Element (Power Supply)	V/ph/Hz	240 / 1 phase / 50 Hz		
c/w Thermostat (Temperature Setting)	deg C (F)	60 (140)	60 (140)	60 (140)

PECOL Local Projects



Alison Kiana, Nilai



Assunta Hospital



Bayview Group of Hotels



Cheras Rehabilitation Hospital



Desa Park Hospital



E & O Hotel, Penang



Four Points Hotel



G Hotel, Penang



Copthorne Hotel



Glenmarie Golf & Country Club



Grand Continental, Langkawi



Rimbayu, IJM



PECOL Local Projects



Innovations in Green Energy
(since 1968)



Seaview, Langkawi



Alison Klana, Nilai



BayView Hotel, Langkawi



The Ascott Hotel Kuala Lumpur



Hyatt Hotel, Kota Kinabalu



Rimbayu, Ulu



The Ascott Hotel Kuala Lumpur



UOA Vertical Hotel, Bangsar South



Sentosa Hospital



Sunway Lagoon Resort Hotel



Sime Darby Medical Centre, Subang Jaya



IB Tower



Assunta Hospital



Sunway Medical Centre, Sunway



The University Malaya Medical Centre



KPJ Johor



Royal Bintang Hotel, Kuala Lumpur



Sierramas Bungalow



Sunrise MK10 Condo



Sunrise MK11 Condo



Tawakal Hospital, KPJ

Energy Saving Conscious Establishments



Sheraton Hotel, Subang



Sama-sama, KLIA



Subang Jaya Medical Centre



Shangri-La Hotel, Singapore



The Ascott Hotel, Kuala Lumpur

OUR CLIENTS REFERENCE PROJECTS

Local Projects:

Cheras Rehabilitation Hospital, KL (Heat Pump)
 Permai Psychiatric Hospital, Tampoi, Johor (Heat Pump)
 Kluang Hospital, Johor (Heat Pump)
 Desa Park Hospital, KL (Heat Pump)
 Sunrise MK11 Condo, KL (Electric Storage Heater/ Air-con Water Heater)
 Sierramas Bungalows, Sg. Buloh (Air-con Heater with Mitsubishi & York)
 Grand Hyatt Hotel Kuala Lumpur (Chiller/Air-con Water Heater)
 Shah Alam Hospital (Heat Pump)
 Kuching Medical Center (Heat Pump)
 Hospital Raja Perempuan Zainab II Kota Bharu (Heat Pump)
 PETRONAS Cari Gali Duyung, Terengganu (Electric Storage Heater)
 Sunrise MK28 Condo, KL (Electric Storage Heater)
 Glenmarie Golf & Country Club
 Genting Resorts
 Putra World Trade Centre
 Palace of the Golden Horse
 Sunway Resort
 Langkawi International Convention Centre
 St Regis, KL Sentral
 VE Hotel, Bangsar South
 Damansara City 2 Hotel
 Manipal Collage, Muar
 IBIS Hotel, Melaka
 Wolo Hotel, Bukit Bintang
 IB Tower

Hotel Pan Pacific KLIA (Heat Pump – Upgrading)
 Hotel Ttanz, Kuala Lumpur (Heat Pump)
 Four Points Hotel Penang (Heat Pump)
 Kuantan Medical Centre
 Four Season, Langkawi
 Bayview Group of Hotels
 Royal Bintang, KL
 The Ascott Hotel, Kuala Lumpur
 E & O Hotel, Penang
 G Hotel, Penang
 Gurney Hotel, Penang
 The Westin, KL
 Grand Continental, Langkawi
 KLIA
 KLIA 2
 Tropicana Golf & Country Club
 Bayview Langkawi (Upgrade)
 KPJ Hospital Shah Alam
 Grand Dorsett, Kuala Lumpur (Upgrade)
 IJM, Rimbayu (Solar System)
 Empire Residence (Solar System)
 Shah Alam Hospital
 Tg Rhu Hotel, Langkawi (Upgrade)

International Projects

Singapore Sembawang Barge (Customized Heater)
 Koh Samui, Thailand (Air-con Heater)
 Far East Village Hotel, Singapore (Heat Pump)
 Coco Beach Hotel, Maldives (Air-con Heater)
 Capital Hotel, Singapore
 Singapore General Hospital
 Crowne Plaza, Changi Airport

Lao Cai Hotel, Vietnam (Heat Pump)
 Danang Banyan Tree International Hotel (Heat Pump)
 Malaysian Embassy in Pakistan (Electric Storage Heater)
 Sheraton Tower, Singapore
 Singapore Yishun Community Hospital
 Singapore General Hospital

ECO Thermal Water Solution by 2018



Reuse of energy



Reduce carbon
foot print



Reduce cost



RENEWABLE ENERGY



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