

# Copeland™ Heat Pumps



Complete Hot Water Solutions for Commercial,  
Domestic and Swimming Pool applications

**COPELAND™**

  
**EMERSON™**

# Heat Pumps: The answer to all our hot water needs

In today's times of skyrocketing energy costs, Heat Pumps are just what you need for all your hot water needs. Traditional methods of heating water, such as electric water heaters and burning of fossil fuels, are proving to be increasingly expensive and aren't eco-friendly too. So how cost effective are Heat Pumps for you? Heat Pumps save you up to 75% in energy costs and also drastically reduce environmental pollution. Just to give you an idea, the average heating cost, calculated in ₹/kW is by far the best for a Heat Pump. While Electric heating costs you approximately ₹ 8.8/kW, and LPG heating costs you ₹ 7/kW, Heat Pump costs you a mere ₹1.2/kW! Imagine the savings over an entire year.

Emerson has developed a range of commercial and residential Heat Pumps that utilize naturally available heat from air, ground and water. These are designed specifically for Indian conditions and deliver unmatched comfort and convenience. Emerson has also developed specialized Heat Pumps that are designed to heat swimming pool water to a precise temperature, so that you can enjoy swimming all year round, whatever the season. Whatever your requirement, Emerson Heat Pumps, with their reliability and versatility are the perfect choice.

## Catering To A Wide Range Of Applications

### Hotels

20° to 60°C

- Sanitary
- Kitchen
- Laundry



### Hospitals

60°C

- Steam Baths
- Laundry



### Restaurants

20° to 60°C

- Utensils
- Washing



### Apartments

30° to 60°C

- Kitchen
- Shower
- Laundry



### Spas/Bungalows

30° to 60°C

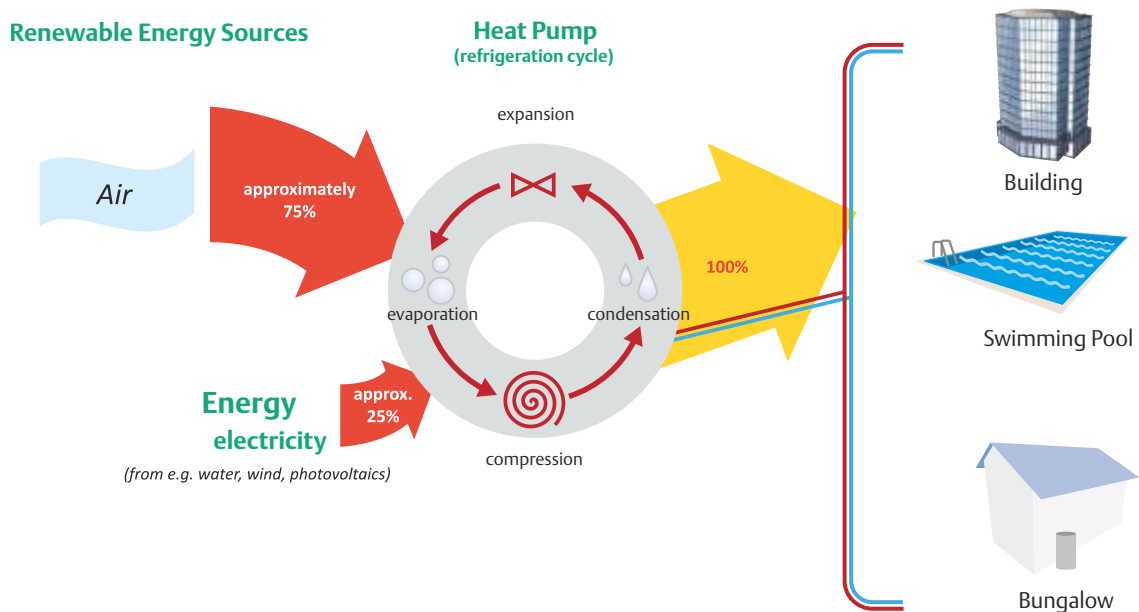
- Swimming Pool
- Steam Bath







## Heat Pump Water Heating: Proven Green Technology



### The working of a Heat Pump

Copeland offers several advantages over conventional water heating systems. Besides being more reliable and efficient, these contribute to a more sustainable environment by utilizing renewable energy sources. Combining renewable sources and applying vapor compression technology results in substantial cost savings and a more environmentally sustainable means of heating water. Reduced usage of fossil fuels also contributes to cleaner air quality.



Copeland Heat Pump is a significantly more efficient solution for heating water. It utilizes naturally available heat from water, ground and even winter air and applies a vapor compression refrigerant cycle, consuming nearly one quarter of the electrical energy required for traditional water heating. At 75% reduced energy consumption, this contributes to cleaner air.

Copeland has developed a full range (from 100 Liters/Hr To 1000 Liters/Hr) of water heating units; built on heating optimized Reciprocating and ZW scroll compressors to provide seasonal efficient heating capacity and effective domestic hot water production in residential, commercial and pool heating applications.

Copeland Heat Pumps are available for use with multiple refrigerants like R407C and R22 and are designed to deliver 60°C water temperature. They can operate from a wide ambient from 0°C to 43°C and fitted with Best-In-Class 'Shell & Tube' heat exchanger technology making them very easy to service and perfect for sites where the water quality is very poor. They also have a 'Simple User Interface'

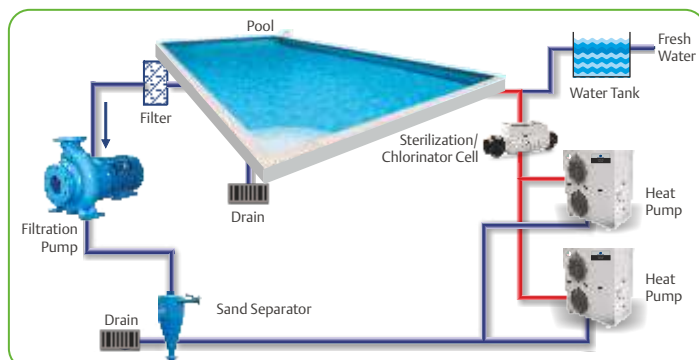
which makes troubleshooting easy and allows service teams to get advance warnings about field failures, reducing downtime and increasing the life of the system.

With all these benefits, the Copeland Heat Pump series is definitely the most reliable solution available on the market. Copeland also supports water heater contractors around the world by providing specifically designed units for heating water.

#### Heat pump water heating-Commercial



#### Pool Heating System Diagram



Note: Drawing for demonstration only; Pipe layout is only for reference.  
For detailed Installation diagram, please refer to the product manual.

#### Heat pump water heating-Residential





Emerson's diverse range of Reciprocating and ZW Scroll Compressors developed to provide a reliable water heating solution



Environmentally Friendly Design; Zero ODP Refrigerant Options Available



60° C Hot Water Available 24/7; Independent of Weather Conditions



Significant Energy Savings; Upto 75-85% Vis-a-Vis Traditional Heating Systems



Automatic Defrost Module for Low Ambient Operation



Reliable Hydrophilic Evaporator Design For Coastal/Salty Conditions



Adjustable Water Temperature & Accurate Temperature Control



Corrosion proof - galvanized powder coated steel chassis with polyester coating



Designed & Manufactured In India; Customized For Your Requirement



Titanium tube in PVC shell condenser designed especially to handle chlorinated water in Swimming Pool Heat Pump



Anti corrosion special coating on copper tubing



Reliable And Easy To Maintain; Designed For Safe Operation



100% Factory Tested, Inspected At Dedicated Heat Pump Testing Facility



# What Makes Copeland Heat Pump Series Unique?

## Copeland ZW Scroll: Dedicated Scroll for Commercial and Pool Heating requirements



**HOT WATER ASSURED**



**HOT WATER RELIABILITY**



**HIGH EFFICIENCY DESIGN**



**LOW LIFECYCLE COSTS**



**LOW AMBIENT PERFORMANCE**

The Copeland Scroll ZW compressor provides an energy efficient alternative for hot water heating and space heating - The perfect alternative to electric heaters or fuel-fired boilers. It is designed basis Copeland's strong experience of manufacturing over 150 million scroll compressors, that are recognized globally as reliable and efficient products. On this strong base, ZW applies Scroll Heating™ technology and multiple new product design features. ZW scrolls hold a new patent on the above features and technological advancements.

### High Efficiency

Copeland Scroll's efficiency is primarily derived from its axial compliance design. ZW scrolls are required to operate on a much wider range of envelope compared to standard heat pump air-conditioners. This has been accomplished by a new axial compliance pressure balance combination designed especially for ZW scrolls. It also applies a highly efficient, high power motor which can cater to extremes required by Heat Pump Water Heating (HPWH); to generate low internal losses at mild ambient cold tank heating and provide adequate power demanded at ambient tank reheating.





## Copeland ZW Scroll Scores Over Traditional AC Scrolls

Innovation Criteria	Traditional AC Scroll	ZW Water Heating Scroll Design Innovations
Heating Capacity	Standard	15-20% Higher Than Standard
COP	Standard	15-20% More Than Standard
Highest Water Temperature	55°C	60°C (Heating Optimized Valve Designed For High Compression Ratios)
Hot Water Reliability	Standard	Stronger & Robust Scroll Design, High Power Motor To Operate At Low Ambient & Higher Condensing Temperature Vs AC Compressors

Water heating Copeland Scroll ZW compressors are designed to meet different winter ambient regions in India. For tropical regions and moderate winter ambient regions, the compressor is designed without vapor injection.

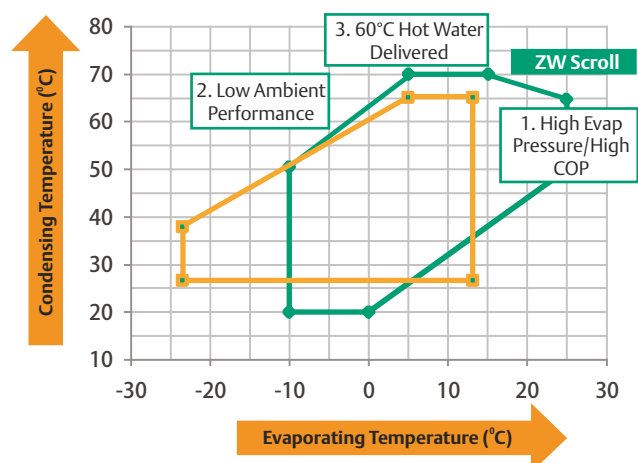
### Hot Water Reliability

Water heating is characterized by long operating hours at both high load and high compression ratios. Demand for hot water is at its highest when ambients are low and when conventional heat pump capacity falls off. ZW\*\*KA compressors are designed for reliable operation for heavier duty applications where the ambient temperature does not fall below 0°C; with significantly enhanced heating capacity, higher efficiency, and minimal requirement to reduce water outlet temperatures.

### Environment Friendly Design

Low ODP refrigerants are utilized by the ZW compressor. Using ZW shows commitment in promoting green technology through the direct and indirect reduction of CO<sub>2</sub> emissions.

Copeland ZW Scroll Scores Over Traditional AC Scrolls



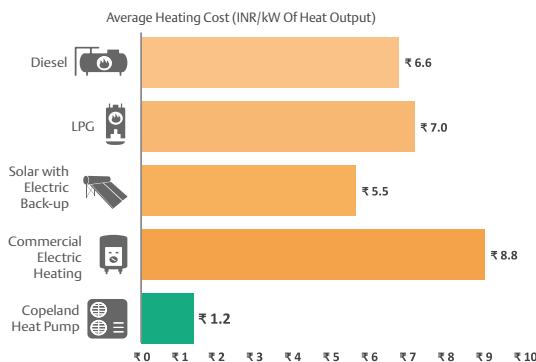
# Copeland Heat Pump Offers Best ROI & Lower Operating Costs

Sustainable, Energy Efficient & A Reliable Alternative To Existing Heating Technologies

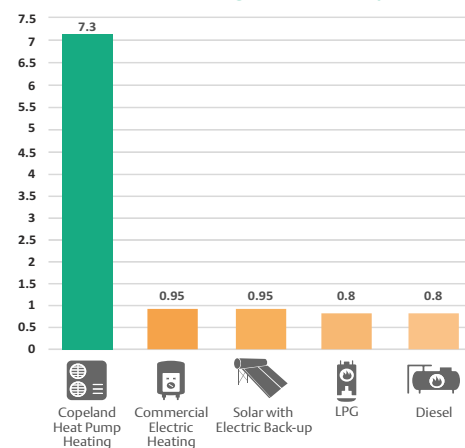
Delivering up to 85% energy savings vs traditional heating systems



Annual energy saving in ₹  
Heat pumps vs other heating systems



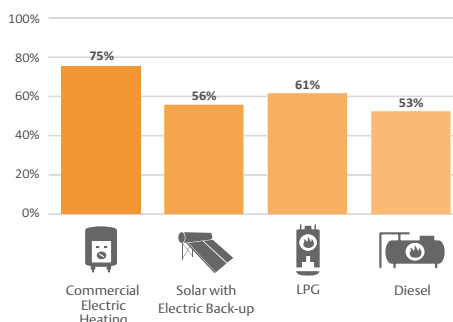
Heating efficiency



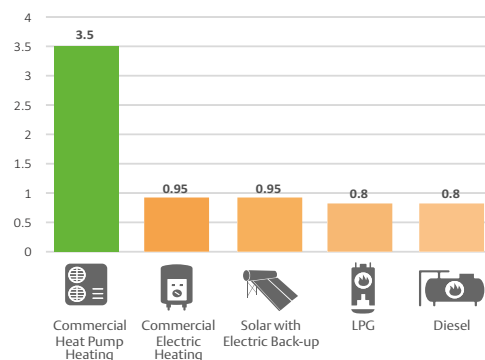
Delivering up to 75% energy savings vs traditional heating systems



Annual energy saving in %  
Heat pumps vs other heating systems



Heating efficiency



**Note:** Results shown from above analysis are designed for comparative purposes only. The assumptions and data used for the analysis may change depending on the market conditions. Emerson cannot be held responsible for any errors, omissions, or misrepresentations in the data represented. If you need confirmation on the detailed analysis, please get in touch with your Emerson Representative.





## Copeland heat pumps comparison versus competing technologies

Heat pump technology scores across all parameters



Parameters	Copeland Heat Pump Heating	Electric Heating	Solar	Diesel	LPG
Energy Savings w.r.t Conventional	Up to 75%	N.A	60-75%	N.A	N.A
Space Requirement	5% Of Solar	5% Of Solar	N.A	5% Of Solar	5% Of Solar
Climate Independent	Yes	N.A	No	N.A	N.A
Efficiency	Up to 400%	Up to 95%	Up to 95%	Up to 80%	Up to 80%
Maintenance	Minimal	High	Panel Cleaning	High	Moderate
Environment Friendly	Yes	Yes	Yes	No	No
Safety	Yes	Moderate	Yes	Moderate	No
Depreciation	40% in 1 <sup>st</sup> Year	No	40% in 1 <sup>st</sup> Year	No	No

## Copeland Heat Pumps: Need Of The Hour

Solution to problems faced by traditional water heating methods



Lack of space  
Costly real-estate



Poor radiation days



High fossil  
fuel usage



Rising electric bills



Safety/Fuel ducting  
& piping

# Easy To Maintain & Service

## Poor Water Quality Leads To Scaling Issues & Abnormal Operating Conditions

Many a time water quality can cause serious problems in hot water systems. The water should be tested for hardness, acidity and iron content before a heat pump is installed. Your contractor or equipment manufacturer can tell you what level of water is acceptable. Mineral deposits can build up inside the heat pump's heat exchanger.

Some possible issues that can crop up are:

- Scale formation
- Pressure drops
- Efficiency loss
- High discharge pressure and can lead to system failure

## Our Solution: Shell & Tube Condenser For Handling Poor Quality Of Water

Our units come fitted with best-in-class 'Shell & Tube' heat exchanger technology. These are easier to service compared to other available Heat exchangers like Tube-In-tube, Plate Type heat exchangers etc. Shell & Tube heat exchangers are the perfect solution for the Indian market where the water quality is very poor at site. All condenser models are simple to install and can be easily opened for inspection, cleaning and maintenance purposes.



Characteristics	Shell & Tube	Tube In Tube	Plate Type
Heat Transfer Efficiency	<b>Comparable</b>	Moderate	Moderate
Ability To Handle High Operating Pressures & Temperature	✓	Moderate	Limitation Due To Bonding Material
Leakage Concerns	<b>Easy To Locate Leaks</b>	Difficult	Difficult To Locate Leaks
Corrosion	<b>Moderate</b>	Moderate	More Prone (Titanium)
Ability To Handle Impure Water/ Scaling	<b>Can Handle Any Water Quality</b>	Needs Treated Water	Needs Treated Water
Maintenance	<b>Easier To Clean/ Maintain Using Brush</b>	Difficult	Difficult





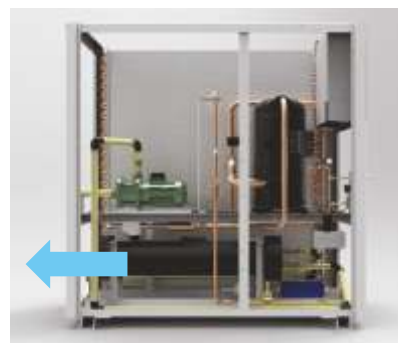
## Individual Components Easily Accessible In Field Designed For Easy Maintenance In Field



Service Panels Removable For Access



Multiple Compartment Design For Easy  
Access To Pump, Compressor & Components



Shell & Tube HX Slides Out After Disconnecting  
Valves



# Simple To Use & Control; Complete Diagnostic Capability & Full Electrical Protection

## Simple To Use Diagnostics Features

The Copeland Heat Pump series is designed for simple & easy operation in the field for end-users like apartments, bungalows, hotels, hostels, restaurants, swimming pools, etc. These units come with 'Simple User Interface' which allows service teams to get advance warnings about field failures, simple error codes for easy diagnosis & troubleshooting. This reduces the downtime and increases the life of the system.



**Simple To Use & Control**  
LED Display For  
Parametric Control  
& Fault Analysis



**Schedule Your**  
Heat Pump Daily



**Complete Electrical**  
Protection



**100% Component**  
Protection  
With Diagnostics  
& Running Status



**Computer**  
Connectivity  
Through RS485



**Weather Proof**  
Enclosure



**Automatic Defrost**  
Module for Low  
Ambient Operations

## Diagnostic Features For Easy Troubleshooting



- 1. Amp /Voltage Monitor key**  
View Electrical Data Of Heat Pump
- 2. Tank Temp & Parameter Set key**  
Control Tank Temperature & Other Parameters
- 3. Backward / Log Key**  
View Alarms/Faults During Operation
- 4. UP / PROBE for Temp Monitoring Key**  
Increase Pre-Set Temperature; Scroll Other Parameters
- 5. DOWN / Programming Key**  
Decrease Pre-Set Temperature; Scroll Other Parameters
- 6. Forward / Real Time Clock key**  
Set Real Time Clock, Date, Time etc.
- 7. Reset key**  
Exit Any Mode
- 8. Power On / Off key**  
Switch On/Off The Heat Pump & Controller
- 9. Power LED**  
Visual Indication Of Power On/Off
- 10. Alarm Signal LED**  
Visual Indication Of Alarms/Faults



## System Protector/End User

1. No Incoming Water Flow
2. High Discharge Pressure Cut Off (Manual Reset only)
3. Low Pressure Cut Off
4. Water Tank Temperature
5. Any Part / Sensor Failure
6. Fuse Failure Display
7. Controller Communication Error
8. Daily Usage Programming Capability
9. Communication Port - To Connect To Laptop (RS485)
10. Installer Password lock
11. Master Password lock
12. Memory For Last 30 Errors Occurred

## Component Protection

### Compressor

1. Single Phase, Phase Missing/Reversal
2. Under/Over Voltage & Current
3. High Discharge Temperature

### Water Pump

1. Dry Run Protection
2. High Current Protection

### Fan Motors

1. Healthy Status
2. High Current
3. One Fan Fails

## Complete Electrical Protection For Field Issues

- Under/ Low Voltage Protection
- Single Phasing/ Phase Missing & Reversal Protection
- Compressor Overload Protector
- Pump Overload Protector
- MCB/Fuse As Standard
- Auto defrost feature for low ambient weather

Line Voltage Monitor  
(Under Voltage/  
Over Voltage/Phase  
Reversal/Phase  
Missing Protection)

MCB



Contactors  
For Compressor

Contactors  
For Fan

Contactors  
For Pump

Sensor Inputs  
For Control



## Copeland Commercial Heat Pump

### Technical Specifications - Standard Models

Model Name			EHP-Z030X-TEA-XXX	EHP-Z050X-TEA-XXX	EHP-Z100X-TEA-XXX
<b>Nominal Capacity</b>	HP		3	5	10
<b>Hot Water Capacity</b>	LPH		300	500	1000
<b>Heat Pump</b>	Power Supply		380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph
	Operating Ambient Range	°C	10 to 43	10 to 43	10 to 43
	Max. Water Temperature	°C	60	60	60
	Capacity	kW	11	17.4	36
	Input Power	kW	3.3	4.8	9.4
	COP		3.3	3.6	3.8
	Current	A	5.6	9.7	21.5
	Refrigerant Gas		R22/R407C	R22/R407C	R22/R407C
<b>Compressor</b>	Type	-	ZW Scroll	ZW Scroll	ZW Scroll
<b>Fan Motor</b>	Quantity	pcs	1	1	2
	Power Supply		230V/1Ph	230V/1Ph	230V/1Ph
<b>Water Pump</b>	Power Supply		230V/1Ph	230V/1Ph	230V/1Ph
<b>Heat Exchanger</b>	Type	-	Shell & Tube	Shell & Tube	Shell & Tube
<b>Water Piping</b>	Inlet Pipe Size	Inch	1" BSP	1" BSP	1" BSP
	Outlet Pipe Size	Inch	1" BSP	1" BSP	1" BSP
	Min. Water Flow (Recommended)	LPH	1400	2800	5000
<b>Dimensions</b>	Dimension (DxWxH)	mm	505 x 1145 x 810	710 x 1235 x 1060	710 x 1270 x 1380
	Approx. Weight	Kg	190	230	400

# Rating Condition - At Ambient of 25°C & Inlet Water of 25°C; Final Water Temperature of 55°C,

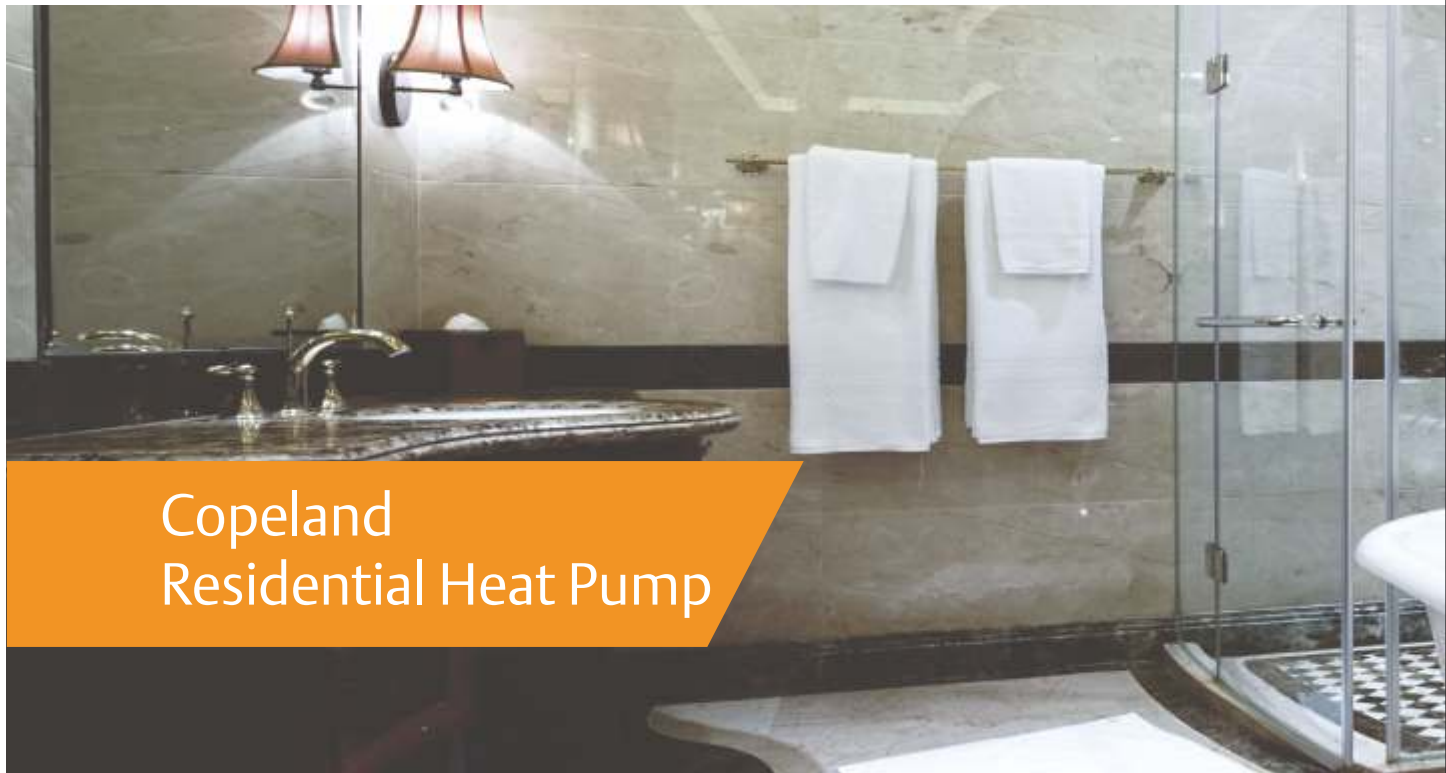




## Technical Specifications - Low Ambient Models

Model Name			EHP-Z030X-TEB-XXX	EHP-Z050X-TEB-XXX	EHP-Z100X-TEB-XXX
<b>Nominal Capacity</b>	HP		3	5	10
<b>Hot Water Capacity</b>	LPH		300	500	1000
<b>Heat Pump</b>	Power Supply		380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph
	Operating Ambient Range	°C	0 to 43	0 to 43	0 to 43
	Max. Water Temperature	°C	60	60	60
	Capacity	kW	11	17.4	36
	Input Power	kW	3.3	4.8	9.4
	COP		3.3	3.6	3.8
	Current	A	5.6	9.7	21.5
	Refrigerant Gas		R22/R407C	R22/R407C	R22/R407C
<b>Compressor</b>	Type	-	ZW Scroll	ZW Scroll	ZW Scroll
<b>Fan Motor</b>	Quantity	pcs	1	1	2
	Power Supply		230V/1Ph	230V/1Ph	230V/1Ph
<b>Water Pump</b>	Power Supply		230V/1Ph	230V/1Ph	230V/1Ph
<b>Heat Exchanger</b>	Type	-	Shell & Tube	Shell & Tube	Shell & Tube
<b>Water Piping</b>	Inlet Pipe Size	Inch	1" BSP	1" BSP	1" BSP
	Outlet Pipe Size	Inch	1" BSP	1" BSP	1" BSP
	Min. Water Flow (Recommended)	LPH	1400	2800	5000
<b>Dimensions</b>	Dimension (DxWxH)	mm	505 x 1145 x 810	710 x 1235 x 1060	710 x 1270 x 1380
	Approx. Weight	Kg	192	235	404

# Rating Condition - At Ambient of 25°C & Inlet Water of 25°C; Final Water Temperature of 55°C



## Copeland Residential Heat Pump

### Technical Specifications - Standard Models

Model Name			EHP-R010X-PGA-XXX	EHP-R015X-PGA-XXX	EHP-R020X-PGA-XXX
Nominal Capacity	HP		1	1.5	2
Hot Water Capacity	LPH		100	150	200
<b>Heat Pump</b>	Power Supply		230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph
	Ambient Range	°C	10 to 40	10 to 43	10 to 43
	Max. Water Temperature	°C	55	55	55
	Capacity	kW	3.5	5.2	7.0
	Input Power	kW	1.2	1.6	2.1
	COP		2.9	3.3	3.3
	Current	A	7.7	9	13
	Refrigerant Gas		R134a	R134a	R134a
<b>Compressor</b>	Type	-	Reciprocating	Reciprocating	Reciprocating
	Current	A	6	7.5	8.5
<b>Fan Motor</b>	Quantity	pcs	1	1	1
	Supply	A	0.7	0.7	0.7
<b>Water Pump</b>	Head	Feet	8	10	10
	Rating Current	A	0.36	0.36	0.36
<b>Heat Exchanger</b>	Type / Model	-	Tube in Tube	Tube in Tube	Tube in Tube
<b>Water Piping</b>	Inlet Pipe Size	Inch	1" BSP	1" BSP	1" BSP
	Outlet Pipe Size	Inch	1" BSP	1" BSP	1" BSP
<b>Dimensions</b>	Dimension (DxWxH)	mm	355x905x625	355x905x625	355x905x625
	Approx weight	Kgs	72	82	84

# Rating Condition - At Ambient of 25°C & Inlet Water of 20°C; Final Water Temperature Of 55°C



## Technical Specifications - Low Ambient Models

Model Name		EHP-R010X-PGB-XXX	EHP-R015X-PGB-XXX	EHP-R020X-PGB-XXX
Nominal Capacity	HP	1	1.5	2
Hot Water Capacity	LPH	100	150	200
<b>Heat Pump</b>	Power Supply	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph
	Ambient Range	°C	0 to 40	0 to 43
	Max. Water Temperature	°C	55	55
	Capacity	kW	3.5	5.2
	Input Power	kW	1.2	1.6
	COP		2.9	3.3
	Current	A	7.7	9
	Refrigerant Gas		R134a	R134a
<b>Compressor</b>	Type	-	Reciprocating	Reciprocating
	Current	A	6	7.5
<b>Fan Motor</b>	Quantity	pcs	1	1
	Supply	A	0.7	0.7
<b>Water Pump</b>	Head	Feet	8	10
	Rating Current	A	0.36	0.36
<b>Heat Exchanger</b>	Type / Model	-	Tube in Tube	Tube in Tube
<b>Water Piping</b>	Inlet Pipe Size	Inch	1" BSP	1" BSP
	Outlet Pipe Size	Inch	1" BSP	1" BSP
<b>Dimensions</b>	Dimension (DxWxH)	mm	355x905x625	355x905x625
	Approx weight	Kgs	74	86

# Rating Condition - At Ambient of 25°C & Inlet Water of 20°C; Final Water Temperature Of 55°C



# Copeland Swimming Pool Heat Pump

## Technical Specifications - Swimming Pool Heat Pump

Model Name			EHP-Z004K-TEP/TBP-001	EHP-Z008K-TEP/TBP-001	EHP-Z017K-TEP/TBP-001
Pool Size			30m3	50m3	100m3
Power Supply			380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph
Operating Ambient Temp.		°C	0 to 43	0 to 43	0 to 43
Max. Water Temperature		°C	35	35	35
Water Heating	Capacity	kW	13	22	43
	Total Power	kW	2.3	3	5.9
	COP	-	5.7	7.3	7.3
	Max. Input Current	A	5	7.6	21
	Refrigerant Gas	-	R22 / R407C	R22 / R407C	R22 / R407C
Compressor	Type	-	ZW Scroll	ZW Scroll	ZW Scroll
Fan Motor	Quantity	pcs	1	1	2
	Power Supply		230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph
Heat Exchanger	Type / Model	-	Titanium Tube	Titanium Tube	Titanium Tube
Water Piping	Inlet Pipe Size	Inch	1.5"	1.5"	2"
	Outlet Pipe Size	Inch	1.5"	1.5"	2"
	Min. Water Flow	LPH	3800	7300	16500
	Max. Water Flow	LPH	4600	9200	18000
Dimensions	Dimension (DxWxH)	mm	505 x1135 x 810	710 x 1220 x 1060	710 x 1250 x 1380
	Approx. Weight	Kg	110	180	250

# Rating Condition - At Ambient of 25°C & Inlet Water of 20°C; Final Water Temperature Of 28°C

## Copeland Heat Pumps: Tested At In-House Laboratory For Performance & Reliability

- Dedicated test lab for heat pump reliability & performance. Built at Karad test lab
- Controlled room ambient from 0° to 46°C
- Monitoring of various parameters upto a measurement accuracy of +/-0.5%
- Real field issues simulation & system correction
- Capability to measure water flow, temperature, pressures, electrical and system
- All instruments calibration performed by NABL accredited labs only
- Certifications of facility
  - QMS - ISO 9000
  - EMS - ISO 14000
  - UL / IEC Stage - 3 / Intertek
- Compliant with Emerson Inc International Guidelines



## Accolades and Recognitions

The consistent and efficient performance of Copeland Heat Pumps has been recognized and appreciated by the industry. Copeland Heat Pump was awarded the coveted National Energy Management Award for the year 2019 in view of the outstanding energy savings vis-à-vis its competition.



## System Integrator Partner Network



Emerson has an extensive nationwide service network with trained technical experts to take care of your Heat Pump after sales needs. Wherever you may be in the country, you can expect an Emerson Technician to look into your servicing needs swiftly, and efficiently.

## CONTACTS LIST

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#### COLD CHAIN CENTERS

##### Chakan

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#### PLANT

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