

# Sensi Hydro Heat Pumps

*Comprehensive hot water solutions for commercial, residential and swimming pool applications*





Significant energy savings, up to 70% compared to traditional heating systems



Copeland offers a wide range of reciprocating and ZW scroll compressors engineered to deliver a reliable water heating solution



Environmentally friendly design; zero Ozone Depletion Potential (ODP) refrigerant options available



60°C hot water available 24/7; independent of weather conditions



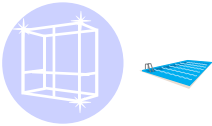
Automatic defrost module for low ambient operation



Reliable hydrophilic evaporator design for coastal or salty conditions



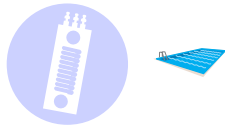
Adjustable water temperature and accurate temperature control



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 specifically to handle chlorinated water in a swimming pool heat pump



Anti-corrosion special coating on the copper tubing



Reliable and easy to maintain; designed for safe operation



100% factory tested, inspected at Copeland's own labs and testing facilities

Model name			EHP-R010X-PBA-XXX	CHP-T015X-PPC-D61*	CHP-T020X-PPC-D61
Nominal capacity		HP	1	1.5	2
Hot water capacity		LPH	100	150	200
Heat pump	Power supply		230V/ 50Hz/ 1Ph	230V/ 50Hz/ 1Ph	230V/ 50Hz/ 1Ph
	Ambient temperature range	°C	10 to 43	-5 to 43	-5 to 43
	Max.Water temperature	°C	55	55	55
	Capacity	KW	3.5	5.2	7.2
	Input power	KW	1.31	1.3	1.8
	COP		2.7	4	4
	Current	A	7.9	6	10.5
	Refrigerant gas		R-407C	R-410A	R-410A
Compressor	Type	-	Fixed Speed	Fixed Speed	Fixed Speed
Fan motor	Quantity	pcs	1	1	1
	Current		230V/ 50Hz/ 1Ph	230V/ 50Hz/ 1Ph	230V/ 50Hz/ 1Ph
Water pump	Head	Feet	8	10	10
	Power supply		230V/ 50Hz/ 1Ph	230V/ 50Hz/ 1Ph	230V/ 50Hz/ 1Ph
Heat exchanger	Type/Model	-	Tube in Tube	VSIT	VSIT
Water piping	Inlet pipe size	mm/inch	25/ 1" BSP	25/ 1" BSP	25/ 1" BSP
	Outlet pipe size	mm/inch	25/ 1" BSP	25/ 1" BSP	25/ 1" BSP
Dimension	Dimension (DxWxH)	mm	355 x 905 x 625	303 x 810 x 590	303 x 810 x 590
	Weight	kgs	72	60	60

Rating condition-rise in water temperature by 30°C, when ambient of 25 °C & 65% RH, when initial temp.is 20°C  
 \*To be launched in December 2025/January 2026

Model name			EHP-Z030X-TME	EHP-Z050X-TMB	EHP-Z075X-TMB	EHP-Z100X-TMB	EHP-Z140X-TMB	EHP-Z200X-TMB**
Nominal capacity		HP	3HP	5HP	7.5HP	10HP	15HP	20HP
Hot water capacity		LPH	300	500	750	1000	1500	2000
Heat Pump	Power supply		380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph
	Ambient temperature range	°C	0 to 43	0 to 43	0 to 43	0 to 43	0 to 43	0 to 43
	Max.water temperature	°C	60	60	60	60	60	60
	Capacity	kW	11	18.4	26	36	52	72
	Input power	kW	3.26	5.0	7.5	10.1	15.0	20.1
	COP		3.4	3.7	3.5	3.6	3.5	3.6
	Current	A	5.6	9.8	20.3	21.4	41.2	43.9
	Refrigerant gas		R-407C	R-407C	R-407C	R-407C	R-407C	R-407C
Compressor	Type	-	ZW Scroll	ZW Scroll	ZW Scroll	ZW Scroll	ZW Scroll	ZW Scroll
Fan motor	Quantity	pcs	1	1	2	2	2	2
	Power supply		230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph
Heat exchanger	Type/model	-	Tube & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube
Water piping	Inlet pipe size	inch	1" BSP	1" BSP	1" BSP	1" BSP	1- 3/8" BSP	1 1/4" BSP
	Outlet pipe size	inch	1" BSP	1" BSP	1" BSP	1" BSP	1- 3/8" BSP	1 1/4" BSP
	Minimum water flow	LPH	1440	2800	4800	5000	10000	12500
Dimension	Dimension (D x W x H)	mm	505 x 1145 x 810	710 x 1235 x 1060	710 x 1270 x 1380	710 x 1270 x 1380	1092 x 1653 x 2201	1092 x 1879 x 2201
	Weight	kg	230	290	365	370	668	835

Rating condition-water temperature rise by 30°C at ambient of 25°C with RH of 65%, when initial temperature is 20°C

\*\*Water temperature rise by 30°C at ambient of 27°C with RH of 65%

Models with in-built water pump require a power supply of 230V/1ph.

Model name		EHP-Z004K-TMP	EHP-Z008K-TMP	EHP-Z010K-TMP	EHP-Z017K-TMP	EHP-Z022K-TMP	EHP-Z034K-TMP	
Pool size		30 m <sup>3</sup>	60 m <sup>3</sup>	80 m <sup>3</sup>	100 m <sup>3</sup>	125 m <sup>3</sup>	200 m <sup>3</sup>	
Nominal capacity	HP	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	
Power supply	-	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	
Ambient temperature range	°C	0 to 35	0 to 35	0 to 35	0 to 35	0 to 35	0 to 35	
Max. Water temperature	°C	35	35	35	35	35	35	
Water heating	Capacity	kW	13	21	32	43	53	86
	COP	-	5.5	5.4	5.4	5.6	4.4	5.5
Total input power		kW	2.3	4.0	5.9	7.7	12.1	15.6
	Max. Input current	A	5	7.6	14	16.5	29.1	34.5
	Refrigerant gas	-	R407C	R407C	R407C	R407C	R407C	R407C
Compressor	Type	-	ZW Scroll	ZW Scroll	ZW Scroll	ZW Scroll	ZW Scroll	ZW Scroll
Fan motor	Quantity	pcs	1	1	2	2	2	2
	Power supply	-	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph
Heat exchanger	Type/model	-	Titanium Tube	Titanium Tube	Titanium Tube	Titanium Tube	Titanium Tube	Titanium Tube
Water piping	Inlet pipe size	Inch	1 1/2" BSP	1 1/2" BSP	2" BSP	2" BSP	2" BSP	2" BSP
	Outlet pipe size	Inch	1 1/2" BSP	1 1/2" BSP	2" BSP	2" BSP	2" BSP	2" BSP
	Min. Water flow	LPH	3800	7300	9500	16500	20900	32300
	Max. Water flow	LPH	4600	9200	10500	18000	23100	35700
Dimension	Dimension (DxWxH)	mm	505 x 1150 x 870	710 x 1220 x 864	710 x 1250 x 1380	710 x 1250 x 1380	1092 x 1653 x 2201	1092 x 1880 x 2087
	Weight	kg	120	190	260	270	560	835

Rating Condition - at ambient of 25°C & inlet water of 20°C; final water temperature of 28°C



## About Copeland

Copeland is a global leader in sustainable heating, cooling, cold chain and industrial solutions. We provide mission-critical compression technologies and controls solutions for a broad range of commercial, industrial, refrigeration and residential customers. We address issues like climate change, growing populations, electricity demands and a complex global supply chain with innovations that advance the energy transition, accelerate the adoption of climate friendly low-GWP (global warming potential) and natural refrigerants and safeguard the world's most critical goods through an efficient and sustainable cold chain. We have over 18,000 colleagues with feet on the ground in more than 40 countries – a global presence that makes it possible to serve customers wherever they are in the world and meet challenges with scale and speed. Our industry-leading brands and diversified portfolio deliver innovation and technology proven in over 200 million installations worldwide. Together, we create sustainable solutions that improve lives and protect the planet today and for future generations.

To learn more, visit [copeland.com](https://copeland.com)

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