



Specification

Model	All in One 100	All in One 160	All in One 200	All in One 300	All in One 350	All in One 420
Capacity (Ltr.)	100 (HWM)	160	200	300	350	420
Heat Pump						
Heat Pump input power	220W	420 W	420 W	875 W	1300 W	1300 W
Heat Pump output	750W	1780 W	1780 W	3500 W	5300 W	5300 W
Coefficient of performance	3.41	4.28	4.28	4.0	4.07	4.07
Electric heater input power	2500 W	2500 W	2500 W	2500 W	3000 W	3000 W
Max. input power	2800 W	3200 W	3200 W	3700 W	5000W	5000W
Max. current (A)	13 A	16 A	16 A	17 A	23 A	23 A
Power supply	220V/1ph/50Hz	220V/1ph/50Hz	220V/1ph/50Hz	220V/1ph/50Hz	220V/1ph/50Hz	220V/1ph/50Hz
Heating capacity in eco mode	16 L/h	38 L/h	38 L/h	78 L/h	118 L/h	118 L/h
Heating capacity in hybrid mode	76 L/h	91 L/h	91 L/h	135 L/h	190 L/h	190 L/h
Max. temperature by eco mode	60°C	65° C	65° C	65° C	65° C	65° C
Max. temperature by hybrid mode	75°C	75° C	75° C	75° C	75° C	75° C
Heat pump noise level	40 dBa	40 dBa	40 dBa	45 dBa	45 dBa	45 dBa
Refrigerant / Volume	R134a/360g	R134a/870g	R134a/870g	R134a/1000g	R134a/1150g	R134a/1150g
Water heat exchanger	Micro channel	Micro channel	Micro channel	Micro channel	Micro channel	Micro channel
Operating temperature range	-7°C to 45°C	-7°C to 45°C	-7°C to 45°C	-7°C to 45°C	-7°C to 45°C	-7°C to 45°C
No of fan	1	1	1	1	2	2
Fan input power	16W	29W	29w	35 W	35w x 2pcs	35w x 2pcs
Tank						
Tank rated pressure	8 bar	8 bar	8 bar	8 bar	8 bar	8 bar
Water inlet / outlet connection	1/2"	3/4"	3/4"	1"	1"	1"
T/P valve connection	*	3/4"	3/4"	3/4"	3/4"	3/4"
Hot water circulation connection	*	*	*	*	3/4"	3/4"
Condensation water out connection	16mm	16mm	16mm	16mm	16mm	16mm
Drain water connection	*	3/4"	3/4"	3/4"	3/4"	3/4"
Insulation thickness / density	50mm (45kg/m3)	50mm (45 kg/m3)	50mm (45 kg/m3)	50mm (45 kg/m3)	50mm (45 kg/m3)	50mm (45 kg/m3)
Weight	65 kg	102 kg	114 kg	150 kg	192 kg	207 kg
Product size	470x1075 mm	525x1735 mm	525x1955 mm	650x1900 mm	675 x 937 x 1720mm	735 x 1006 x 1720mm
Magnesium anode protection	300g/M2	400g/M2	400g/M2	400g/M2	400g/M2	400g/M2
Water proofing grade	IPx4	IPX4	IPX4	IPX4	IPX4	IPX4

Company reserves the right to change specifications and models without prior notice.

*Testing condition: Dry-bulb temperature 20°C, Wet-bulb temperature 15°C, Outlet water temp. 55°C deg.

MFD BY
ISO 9001
ISO 14001



Intertek

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ALL IN ONE AIR SOURCE HEAT PUMP

Quality at the forefront of Technology
Safety features you can Trust
Service you can count on
WE REDEFINE TIPCO

Tipco excels in providing simple installations to customized Water Heating Solutions to discerning buyers. Be it Heat Pump, Gas, Solar or Electric an amalgamation of technologies. No wonder why our customers Trust Us when it comes to providing Hot Water Solution.



Setting new quality standards

About TIPCO

Meet Piyush Lohiya, the visionary Managing Director of TIPCO, TIPC & IWS group of companies. Over the last two decades, he has built an exceptional legacy of trust and excellence, winning the hearts of hundreds of premium iconic luxury apartment builders and prestigious clients. From My Home Constructions to DSR Builders, Rajapushpa, Bollineni Developers, and more, Shri Piyush Lohiya's trustworthiness and commitment have made him the go-to partner for renowned builders and organisations.

Shri Piyush Lohiya's leadership has brought over 10 global innovations to thousands of clients. Through IWS, Innovative Water Solutions, he has empowered clients to conserve energy, go green, and create leak-proof, lasting plumbing solutions. Delivering a staggering 75% energy savings for hotels, hostels, commercial, and residential heating solutions - efficiency and luxury go hand in hand with our range of TIPCO water heaters.

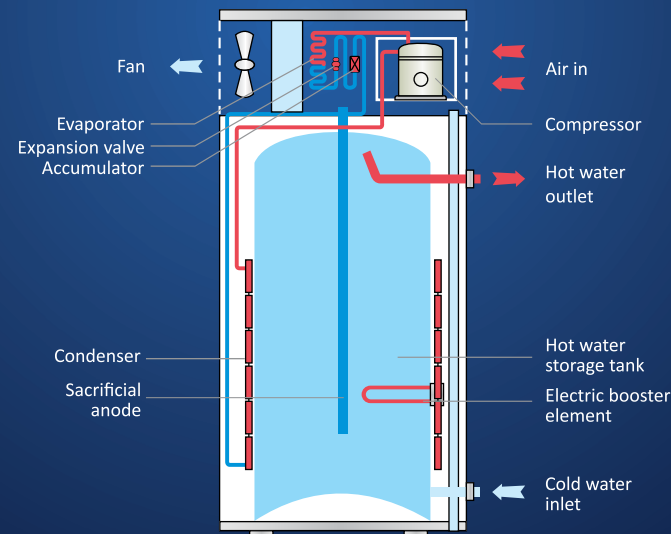
Heat Pump working principle

Tipco Air Source Heat Pump is a water heater that sources heat from the air to heat water. Working principle is based on the Reversed Carnot Cycle. Usually, a Heat Pump water heater has four main components: evaporator, compressor, condenser and expansion device. The refrigerant is the medium to connect the four parts. With our technology the liquid refrigerant in the compressor will be pumped into high temperature and high pressure gas by using very little amount of electricity.

Tipco heat pump water heater consumes only ¼ electric power compared to regular electric water heater. The way our product is not just saves money by its power saver mode but also is an environment friendly new generation water heater.

Tipco is also a proud supplier of split heat pump, swimming pool heat pump and high temperature heat pump.

Working diagram



Safety

High voltage protection

Compressor over heating protection

Hot water over heating protection

Refrigerant high pressure protection

Refrigerant low pressure protection

Over water pressure protection

Circuit failure protection



How to choose an excellent air source Heat Pump water heater: Key features



1st time in India

Micro channel heat exchanger

Tipco has developed external micro channel heat exchanger fitted water tank which avoids direct contact between water and heat exchanger, that helps in preventing scaling problems in hard water regions. This innovative heat exchanger is wound closely on the outer surface of the water tank resulting into increased contact area, higher heat efficiency, making the system more stable and a longer service life. Our variable programming flow technology maximizes the effectiveness of heat exchanger.



- ◆ **Glass enamel tank:** Enamel coated inner tank in the heat pump is manufactured in an international advanced automatic plant, making it the highest quality tank available in the market.
- ◆ **Eco-friendly refrigerant:** R134a is an environment friendly, non-poisonous, non-flammable, non-explosive, non-irritant and non-corrosive refrigerant.
- ◆ **High COP:** Micro channel heat exchanger enhances the surface between inner tank and heat exchanger thus enhances the performance of Heat Pump. The COP of this kind of unit can reach upto 4.28 based on European standard.
- ◆ **Panasonic special compressor:** A special compressor with operating range of -7°C to 45°C.
- ◆ **Low noise:** Tipco Heat Pumps are specially designed to reduce noise level to as low as 40 to 45dB.
- ◆ **Advanced anode protection:** The anode rod is a highly effective corrosion fighting system which protects internal tank surfaces from corrosive elements.
- ◆ **360° insulation:** Extremely thick and high intensity insulation for better thermal protection.
- ◆ **Controller:** User friendly controller.
- ◆ **Suitable for low temperature environment:** The ambient temperature range for Heat Pump operation is -7°C to 43°C.