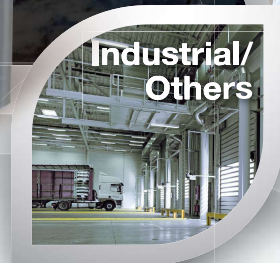
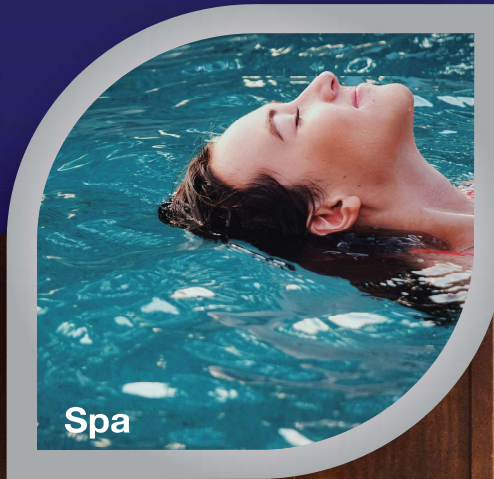


Low energy consumption & high efficiency heat pumps

The Thermatrac Solution



Air-to-Water Heat Pumps  Water-to-Water Heat Pumps



Air-to-Water Heat Pumps



Consume up to 75% less energy

Thermatrac Air-to-Water heat pump is an eco-friendly hot water system that consumes up to 75% less energy than conventional fossil fuel systems. Reduce your operating cost and do your part for the environment at the same time.

Its robust cabinet construction makes it suitable for outdoor installation, while its user-friendly LCD electronic control allows for ease of monitoring and easy interaction.

Be assured with our latest technology, dependable performance and excellent pre-sales and after-sales service and support.

Eco-friendly HFC refrigerant to achieve high Coefficient of Performance (COP)

Easy to maintain

User Friendly

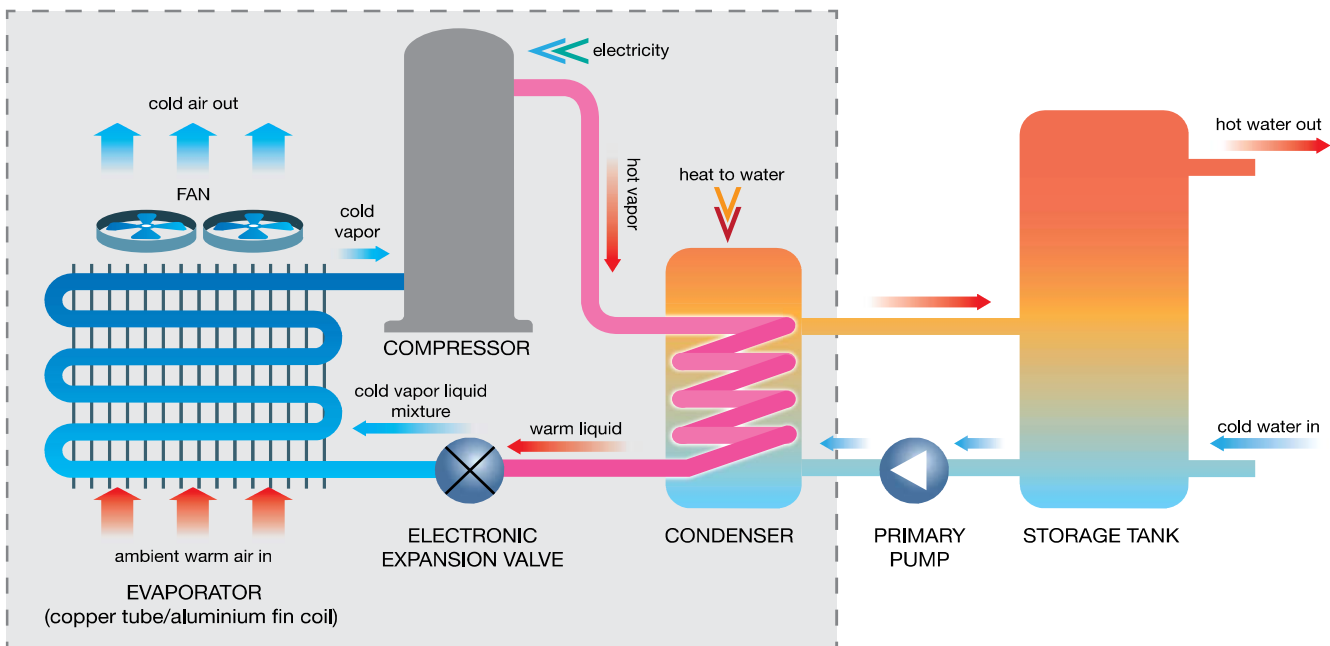
Fuss Free



What is an Air-to-Water Heat Pump?

An Air-to-Water heat pump absorbs heat from the surrounding air and transfers it into the water line. Heat pumps transfer heat by circulating refrigerant through a cycle of evaporation and condensation. A compressor pumps the refrigerant between two heat exchanger coils; 1) the refrigerant is evaporated at low pressure and absorbs heat from its surroundings; 2) the refrigerant is compressed then condenses at high pressure where it releases the heat that has been absorbed earlier in the cycle; then the refrigerant will go through an expansion device to repeat the evaporation process and the cycle continues.

AIR-TO-WATER HEAT PUMP SCHEMATIC



Key Features

1. World renowned compressors with Eco-friendly HFC refrigerant to achieve high Coefficient of Performance (COP)
2. High quality heat exchanger, ideal for direct potable water heating
3. Easily accessible control box
4. Large access panel for easy servicing
5. Robust UV resistant GI. Cabinet construction – suitable for outdoor installation (with option of Stainless Steel 304 cabinet)
6. User-friendly LCD electronic controls monitor operation for reliability and easy interaction
7. Standard safety features to ensure trouble-free operation; high-low pressure switch, flow switch, overheat cut-off protection, etc.
8. Environment-friendly hot water system – operation consumes up to 75% less energy of similar fossil fuel system

Consume up to
75% less energy

Saves on cost and
environmentally friendly

TRT Series – Single Compressor System

Air-to-Water heat pump models using an eco-friendly refrigerant R417A with a single compressor system that can obtain a maximum output of 60°C water temperature.

DESCRIPTION		TRT-10	TRT-18	TRT-20
TECHNICAL DATA				
Nominal Heating Capacity, kW		10.8	20.5	24.2
COP		4.68	4.8	4.94
Rated Input Power, kW		2.31	4.28	4.9
Power Supply, Volts/Ph/Hz	50 Hz	220/1/50	380/3/50	380/3/50
	60 Hz	220/1/60	380/3/60	380/3/60
Refrigerant		R417A		
Refrigerant Factory Charge, g		1500	3200	3700
Rated Outlet Water Temperature, °C		55		
Max. Outlet Water Temperature, °C		60		
Dimensions (L x W x H), mm		752 x 729 x 916	859 x 829 x 988	859 x 829 x 988
Noise Level, dB		56	62	62
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)		
IP Rating (Enclosure Class)		IPX4		
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault		
Metering Device		Electronic Expansion Device		
Net Wt./Approx. Shipping Wt., kg		97/ 115	120/141	120/141
Testing		Run Tested at Factory Prior to Shipment		
COMPRESSOR				
Quantity/Type		1/Scroll	1/Scroll	1/Scroll
Volts/Phase/Hertz	50 Hz	220/1/50	380/3/50	380/3/50
	60 Hz	220/1/60	380/3/60	380/3/60
Rated Load Amps, A		10	7.3	8.5
Locked Rotor Amps, A	50 Hz	72.5	59	67
	60 Hz	79	65	94
EVAPORATOR FAN				
Quantity/Type		1/Axial		
Air Volume, m ³ /hr		2200	3500	3500
Voltage/Phase/Hertz	50 Hz	220/1/50		
	60 Hz	220/1/60		
Full Load Amps, each		0.55	2	2
EVAPORATOR COILS				
Fin Type/Tube Type		Hydrophilic Pockmarked Aluminum Fins/Internal Threaded Tube		
CONDENSER				
Type		Single Wall Tube in Tube (Option: Double Wall)		
Water Flow Rate, m ³ /hr		1.86	3.53	4.16
Pressure Drop thru Heat Exchanger, kPa		50		
Max. Working Pressure – Water Side, kPa		700		
Water Connection		DN25	DN40	DN40

TRT Series – Dual Compressor System



Air-to-Water heat pump models using an eco-friendly refrigerant R417A with a dual compressor system that can obtain a maximum output of 60°C water temperature.

DESCRIPTION		TRT-40	TRT-60	TRT-90
TECHNICAL DATA				
Nominal Heating Capacity, kW		45.8	68.5	95
COP		4.67	4.5	4.87
Rated Input Power, kW		9.8	15.2	19.5
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50		
	60 Hz	380/3/60		
Refrigerant		R417A		
Refrigerant Factory Charge, g		3400*2	4800*2	5000*2
Rated Outlet Water Temperature, °C		55		
Max. Outlet Water Temperature, °C		60		
Dimensions (L x W x H), mm		1503 x 723 x 1208	2200 x 1005 x 1840	2200 x 1005 x 1840
Noise Level, dB		62	70	70
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)		
IP Rating (Enclosure Class)		IPX4		
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault		
Metering Device		Electronic Expansion Device		
Net Wt./Approx. Shipping Wt., kg		325/340	435/465	650/685
Testing		Run Tested at Factory Prior to Shipment		
COMPRESSOR				
Quantity/Type		2/Scroll		
Volts/Phase/Hertz	50 Hz	380/3/50		
	60 Hz	380/3/60		
Rated Load Amps, A		17	27.5	34
Locked Rotor Amps, A	50 Hz	67	100	133
	60 Hz	94	147	170
EVAPORATOR FAN				
Quantity/Type		2/Axial		
Air Volume, m ³ /hr		7000	14000	14000
Voltage/Phase/Hertz	50 Hz	220/1/50		
	60 Hz	220/1/50		
Full Load Amps, each		2	4.2	4.2
EVAPORATOR COILS				
Fin Type/Tube Type		Hydrophilic Pockmarked Aluminum Fins/Internal Threaded Tube		
CONDENSER				
Type		Single Wall Tube in Tube (Option: Double Wall)		
Water Flow Rate, m ³ /hr		7.88	11.78	16.34
Pressure Drop thru Heat Exchanger, kPa		50		
Max. Working Pressure – Water Side, kPa		700		
Water Connection		DN40	DN50	DN50

Note: Higher heating capacity models are available upon request.

TRTH Series – Single Compressor System

Air-to-Water heat pump models using an eco-friendly refrigerant R134A with a single compressor system that can obtain a maximum output of 70°C water temperature

DESCRIPTION		TRTH-7	TRTH-12	TRTH-15
TECHNICAL DATA				
Nominal Heating Capacity, kW		8.5	14.5	16.8
COP		3.46	3.40	3.39
Rated Input Power, kW		2.46	4.26	4.95
Power Supply, Volts/Ph/Hz	50 Hz	220/1/50	380/3/50	380/3/50
	60 Hz	220/1/60	380/3/60	380/3/60
Refrigerant		R134A		
Refrigerant Factory Charge, g		1500	3200	3700
Rated Outlet Water Temperature, °C		65		
*Max. Outlet Water Temperature, °C		70		
Dimensions (L x W x H), mm		725 x 729 x 916	859 x 829 x 988	859 x 829 x 988
Noise Level, dB		56	58	58
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)		
IP Rating (Enclosure Class)		IPX4		
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault		
Metering Device		Electronic Expansion Device		
Net Wt./Approx. Shipping Wt., kg		97/ 115	120/141	120/141
Testing		Run Tested at Factory Prior to Shipment		
COMPRESSOR				
Quantity/Type		1/Scroll		
Volts/Phase/Hertz	50 Hz	220/1/50	380/3/50	380/3/50
	60 Hz	220/1/60	380/3/60	380/3/60
Rated Load Amps, A		11.75	7.62	9.17
Locked Rotor Amps, A	50 Hz	75	60	72
	60 Hz	88	71	95
EVAPORATOR FAN				
Quantity/Type		1/Axial		
Air Volume, m ³ /hr		2200	3500	3500
Voltage/Phase/Hertz	50 Hz	220/1/50	220/1/50	220/1/50
	60 Hz	220/1/60	220/1/60	220/1/60
Full Load Amps, each		0.55	2	2
EVAPORATOR COILS				
Fin Type/Tube Type		Hydrophilic Pockmarked Aluminum Fins/Internal Threaded Tube		
CONDENSER				
Type		Single Wall Tube in Tube (Option: Double Wall)		
Water Flow Rate, m ³ /hr		1.46	2.50	2.90
Pressure Drop thru Heat Exchanger, kPa		50		
Max. Working Pressure – Water Side, kPa		700		
Water Connection		DN25	DN40	DN40

*An outlet water temperature of up to 75°C is obtainable for ambient temperatures above 20°C.

TRTH Series – Dual Compressor System



Air-to-Water heat pump models using an eco-friendly refrigerant R134A with a dual compressor system that can obtain a maximum output of 70°C water temperature.

DESCRIPTION		TRTH-25	TRTH-35	TRTH-65
TECHNICAL DATA				
Nominal Heating Capacity, kW		28.5	34.90	68.00
COP		3.37	3.46	3.44
Rated Input Power, kW		8.45	10.09	19.78
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50		
	60 Hz	380/3/60		
Refrigerant		R134A		
Refrigerant Factory Charge, g		3000*2	3400*2	5000*2
Rated Outlet Water Temperature, °C		65		
*Max. Outlet Water Temperature, °C		70		
Dimensions (L x W x H), mm		1503 x 723 x 1208	1503 x 723 x 1208	2200 x 1005 x 1840
Noise Level, dB		62	62	68
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)		
IP Rating (Enclosure Class)		IPX4		
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault		
Metering Device		Electronic Expansion Device		
Net Wt./Approx. Shipping Wt., kg		293/340	300/345	695/719
Testing		Run Tested at Factory Prior to Shipment		
COMPRESSOR				
Quantity/Type		2/Scroll		
Volts/Phase/Hertz	50 Hz	380/3/50		
	60 Hz	380/3/60		
Rated Load Amps, A		14.9	17.5	33.0
Locked Rotor Amps, A	50 Hz	60	72	145
	60 Hz	71	95	179
EVAPORATOR FAN				
Quantity/Type		2/Axial		
Air Volume, m ³ /hr		7000	7000	14000
Voltage/Phase/Hertz	50 Hz	220/1/50		
	60 Hz	220/1/50		
Full Load Amps, each		2.20	2.20	4.50
EVAPORATOR COILS				
Fin Type/Tube Type		Hydrophilic Pockmarked Aluminum Fins/Internal Threaded Tube		
CONDENSER				
Type		Single Wall Tube in Tube (Option: Double Wall)		
Water Flow Rate, m ³ /hr		4.90	6.00	11.70
Pressure Drop thru Heat Exchanger, kPa		50		
Max. Working Pressure – Water Side, kPa		700		
Water Connection		DN40	DN40	DN50

*An outlet water temperature of up to 75°C is obtainable for ambient temperatures above 20°C.

Note: Higher heating capacity models are available upon request.

Dimensions

Equipment dimensions: L = length, W = width, H = height

Recommended clearance: A = water connection side

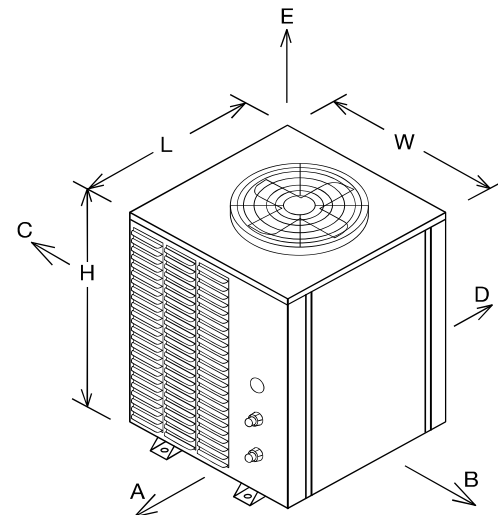
B = access panel side

C = air inlet

D = air inlet

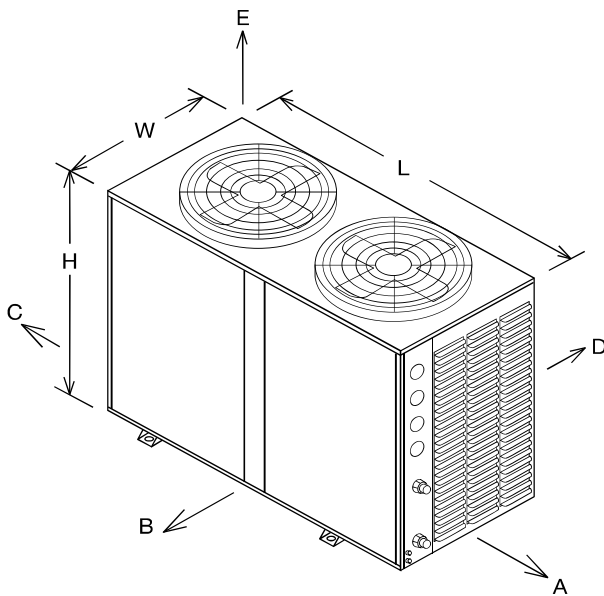
E = evaporator fan exhaust

MODEL	L	W	H	A	B	C	D	E
TRTH-7	752	729	916	800	800	400	400	2000
TRT-10	752	729	916	800	800	400	400	2000
TRTH-12	859	829	988	800	800	400	400	2000
TRTH-15	859	829	988	800	800	400	400	2000
TRT-18	859	829	988	800	800	400	400	2000
TRT-20	859	829	988	800	800	400	400	2000
TRTH-25	1503	723	1208	1000	800	500	500	2000
TRTH-35	1503	723	1208	1000	800	500	500	2000
TRT-40	1503	723	1208	1000	800	500	500	2000
TRT-60	2200	1005	1840	1200	1000	800	800	2000
TRTH-65	2200	1005	1840	1200	1000	800	800	2000
TRT-90	2200	1005	1840	1200	1000	800	800	2000

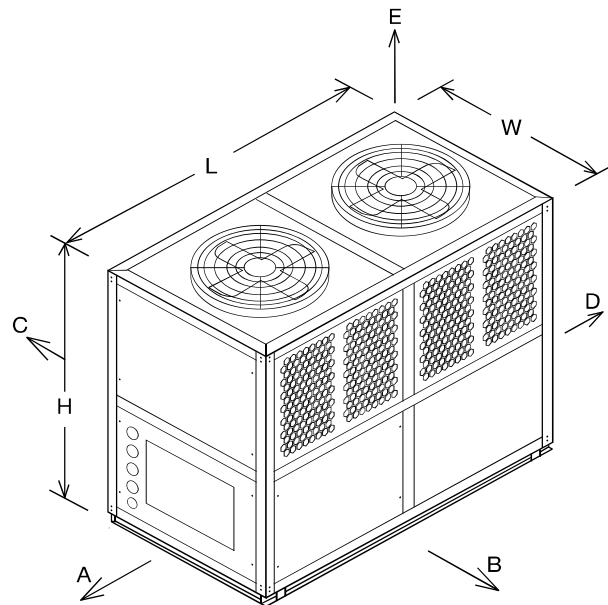


TRT & TRTH - 7 to 20
Single Compressor System

*All dimensions are in mm.



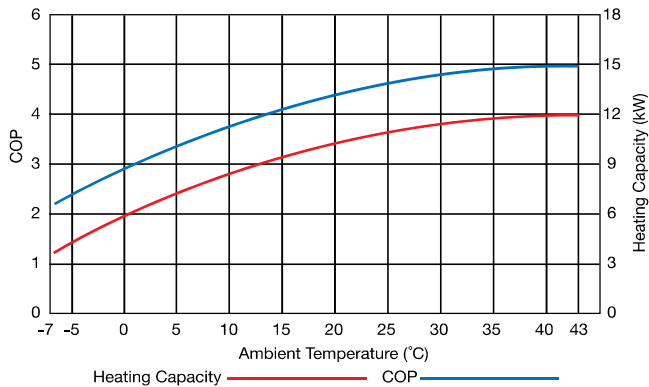
TRT & TRTH - 25 to 40
Dual Compressor System



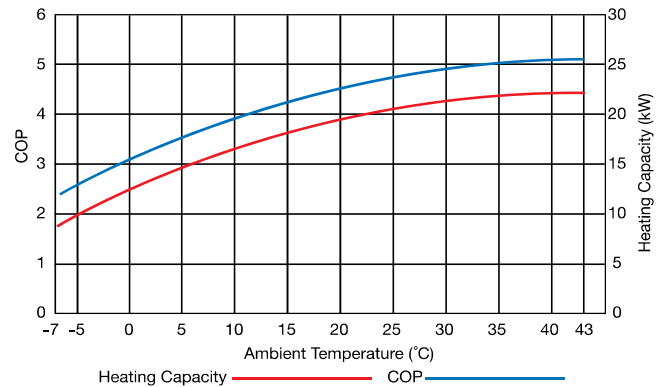
TRT & TRTH - 60 to 90
Dual Compressor System

Performance Curve - TRT Models

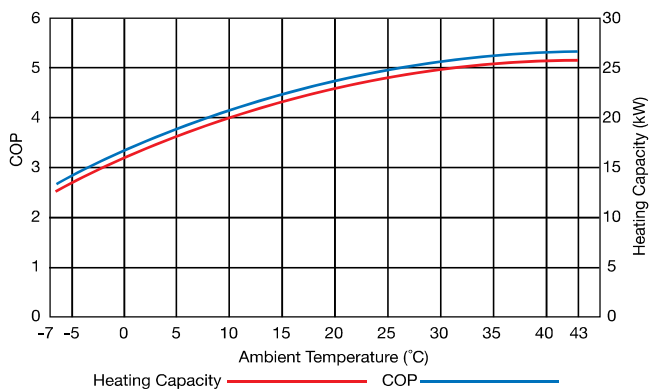
Performance rating indicated in the specification sheet was tested in the factory based on ambient condition of 25°C dry bulb and 20°C wet bulb. Water is heated from 20°C to 55°C.



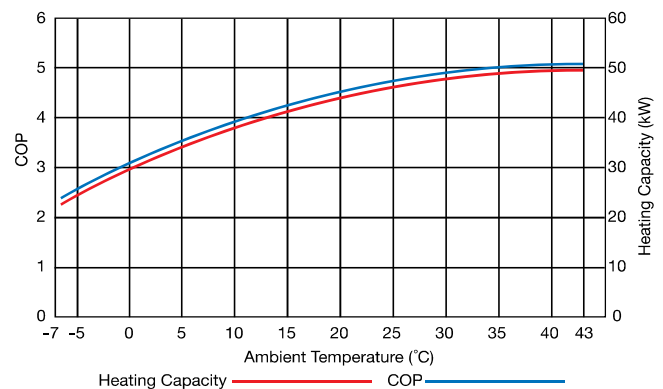
TRT - 10



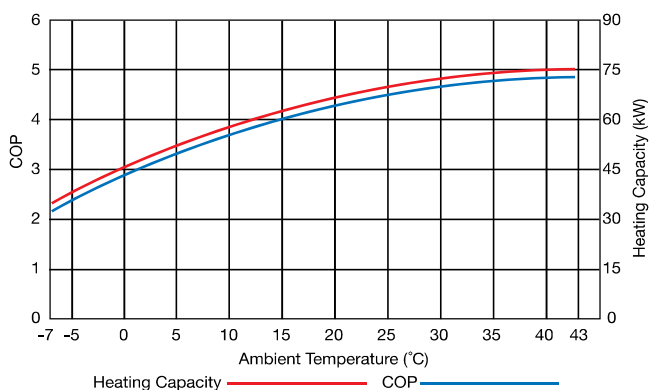
TRT - 18



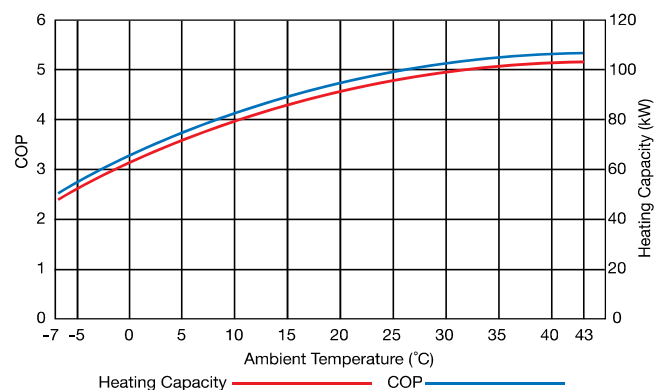
TRT - 20



TRT - 40



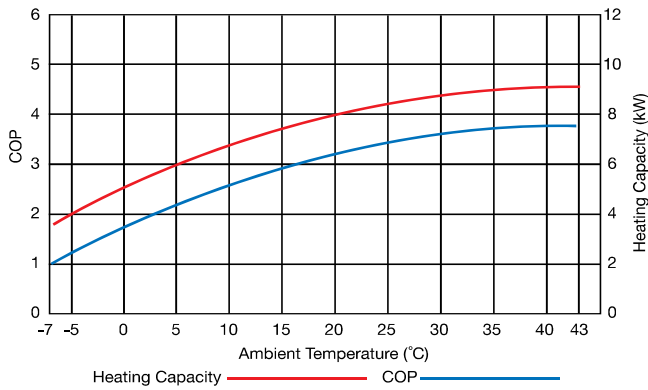
TRT - 60



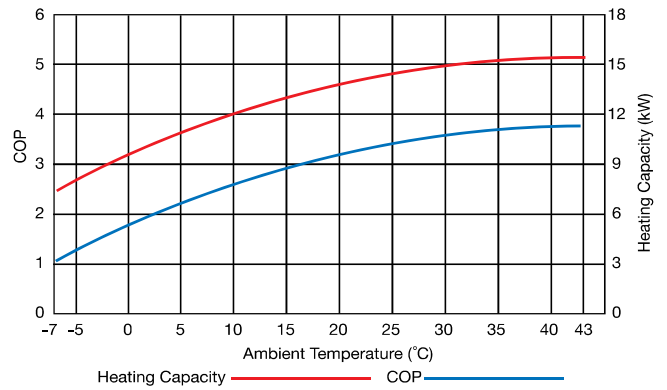
TRT - 90

Performance Curve - TRTH Models

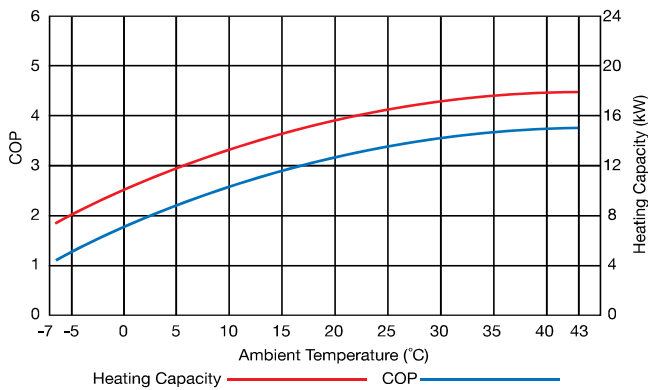
Performance rating indicated in the specification sheet was tested in the factory based on ambient condition of 25°C dry bulb and 20°C wet bulb. Water is heated from 20°C to 65°C.



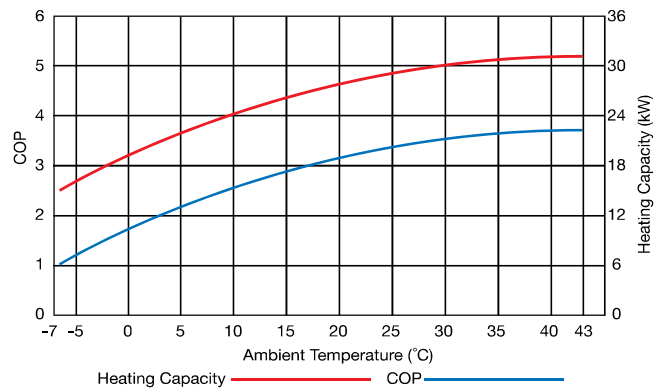
TRTH-7



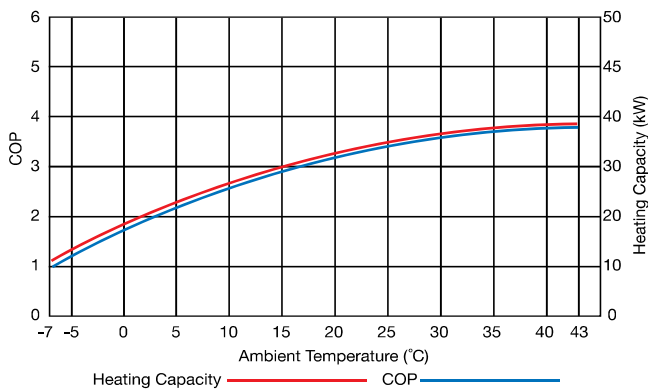
TRTH - 12



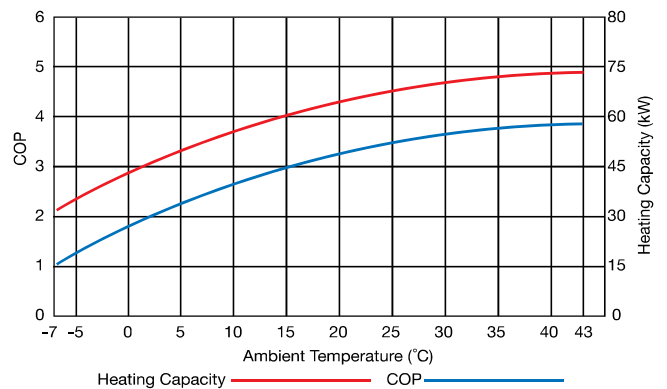
TRTH - 15



TRTH - 25



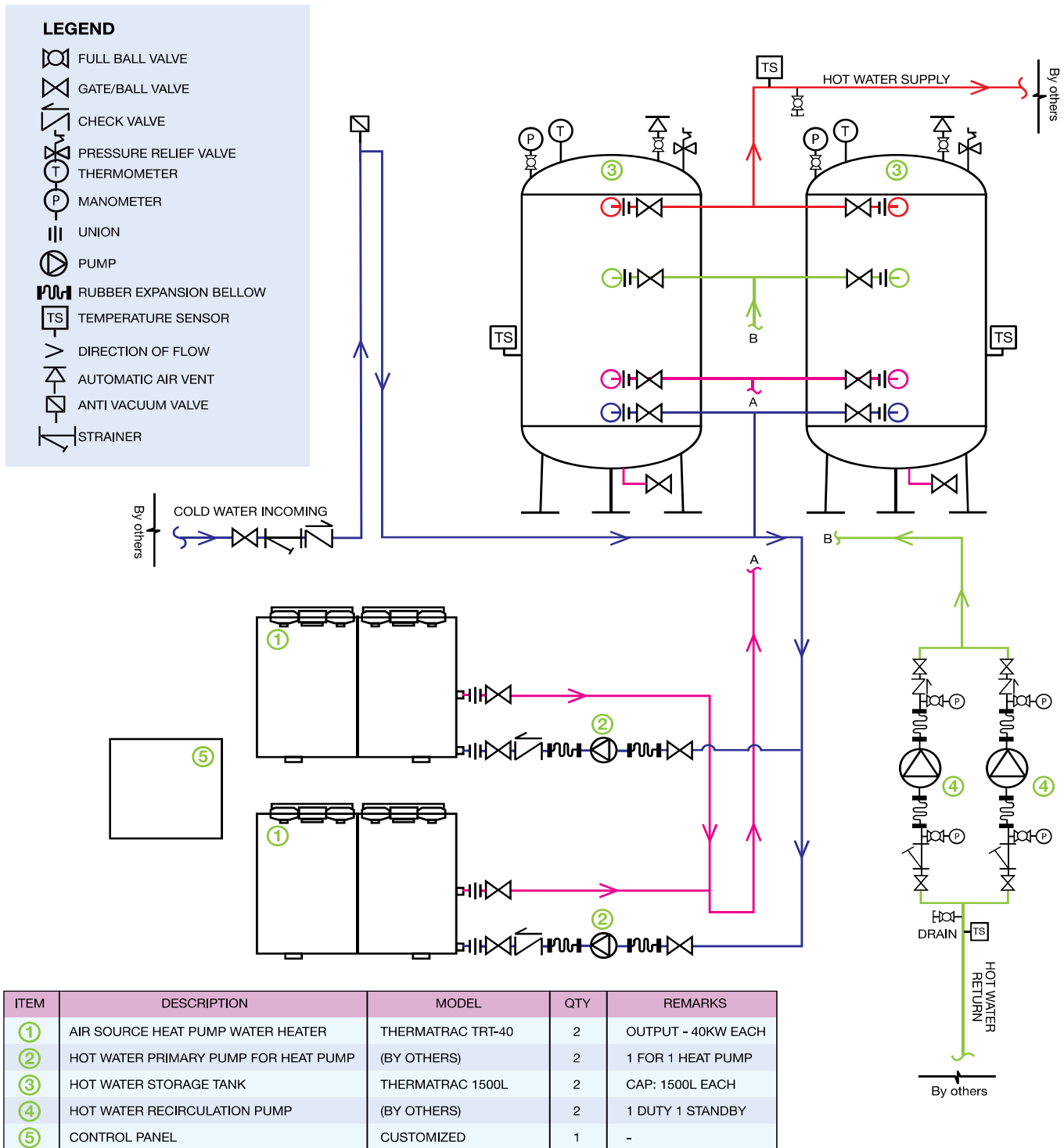
TRTH - 35



TRTH - 65

Typical Installation

In this system, hot water storage tanks and heat pumps are connected in one loop. The primary pump circulates the water from the storage tank to the heat pump. Hot water supply going to the building comes from the topmost outlet of the storage tank. Recirculation pumps circulate the hot water from the entire building's plumbing system back to the storage tanks to ensure instant delivery of hot water on every service tap.





Water-to-Water Heat Pumps

The ideal heating solution



Thermatrac Water-to-Water heat pumps deliver exceptional performance and efficiency.

Reduce your operating cost and carbon footprint significantly with high efficiency solution and eco-friendly credentials. Thermatrac Water-to-Water heat pumps only utilize eco-friendly HFC refrigerant R417A (up to 60 °C) or R134A (up to 70 °C) in its product range.

Its robust cabinet construction makes it suitable for outdoor installation, while its user-friendly LCD electronic control allows for ease of monitoring and easy interaction.

Be assured with our latest technology, dependable performance and excellent pre-sales and after-sales service and support.



Eco-friendly HFC refrigerant

Fuss free

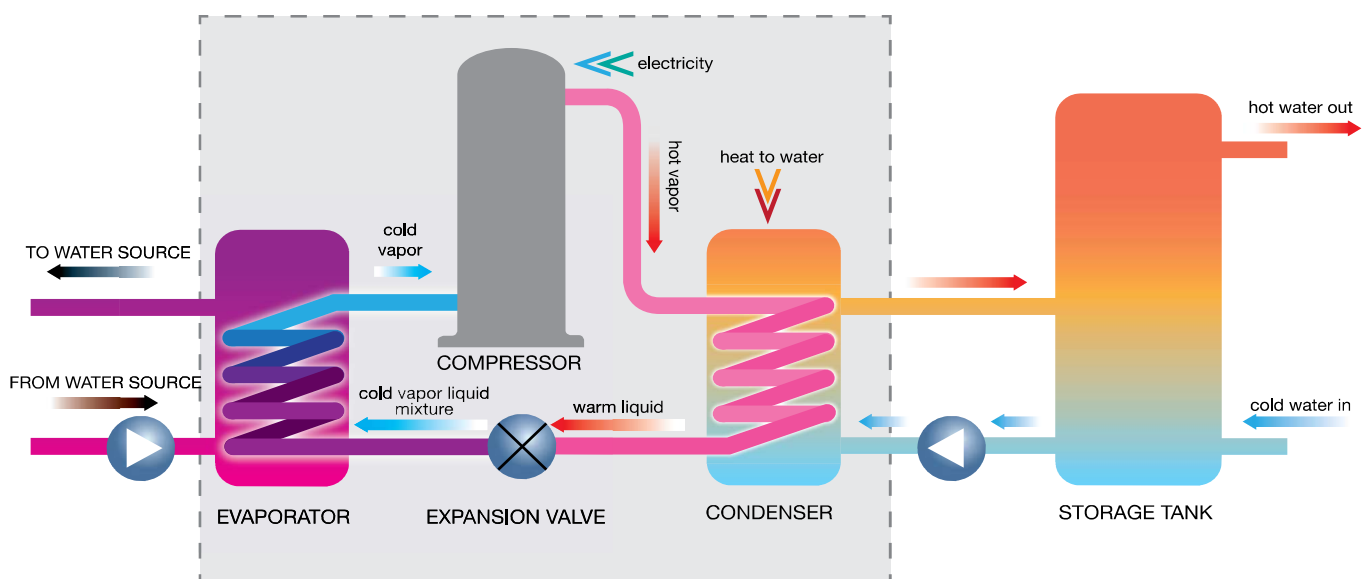
High quality heat exchangers

Suitable for outdoor installations

What is a Water-to-Water Heat Pump?

A Water-to-Water heat pump absorbs heat from the water source (normally from the building's chiller side) and transfers it into the hot water line. Heat pumps transfer heat by circulating refrigerant through a cycle of evaporation and condensation. A compressor pumps the refrigerant between two heat exchanger coils; 1) the refrigerant is evaporated at low pressure and absorbs heat from its surroundings; 2) the refrigerant is compressed then condenses at high pressure where it releases the heat that has been absorbed; then the refrigerant will go through an expansion device to repeat the evaporation process and the cycle continues.

WATER-TO-WATER HEAT PUMP SCHEMATIC



Key Features

1. World renowned compressors with Eco-friendly HFC refrigerant to achieve high Coefficient of Performance (COP)
2. High quality heat exchanger, ideal for direct potable water heating
3. Easily accessible control box
4. Large access panel for easy servicing
5. Robust UV resistant GI. Cabinet construction – suitable for outdoor installation (with option of Stainless Steel 304 cabinet)
6. User-friendly LCD electronic controls monitor operation for reliability and easy interaction
7. Standard safety features to ensure trouble-free operation; high-low pressure switch, flow switch, overheat cut-off protection, etc.
8. Environment-friendly hot water system – operation consumes up to 75% less energy of similar fossil fuel system

**75% less energy of
similar fossil fuel system**

**Saves on cost and
environmentally friendly**

TRW Series – Single Compressor System

Water-to-Water heat pump models using an eco-friendly refrigerant R417A with a single compressor system that can obtain a maximum output of 60°C water temperature.

DESCRIPTION		TRW-20	TRW-25
TECHNICAL DATA			
Nominal Heating Capacity, kW		19,5	24
COP		4.6	4.6
Rated Input Power, kW		4.2	5.2
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50	
	60 Hz	380/3/60	
Refrigerant		R417A	
Refrigerant Factory Charge, g		2400	2800
Rated Outlet Water Temperature, °C		55	
Max. Outlet Water Temperature, °C		60	
Dimensions (L x W x H), mm		859 x 829 x 850	859 x 829 x 850
Noise Level, dB		54	
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)	
IP Rating (Enclosure Class)		IPX4	
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault	
Metering Device		Electronic Expansion Device	
Net Wt./Approx. Shipping Wt., kg		135/148	
Testing		Run Tested at Factory Prior to Shipment	
COMPRESSOR			
Quantity/Type		1/Scroll	
Volts/Phase/Hertz	50 Hz	380/3/50	
	60 Hz	380/3/60	
Rated Load Amps, A		8.7	11
Locked Rotor Amps, A	50 Hz	59	67
	60 Hz	65	94
EVAPORATOR			
Heat Exchanger Type		Plate	
Cooling Side Water Flow Rate, m ³ /hr		3.4	4.1
Pressure Drop thru Heat Exchanger, kPa		50	
Max. Working Pressure – Water Side, kPa		700	
Water Connection		DN25	
CONDENSER			
Heat Exchanger Type		Single Wall Tube in Tube (Option: Double Wall)	
Heating Side Water Flow Rate, m ³ /hr		3.4	4.1
Pressure Drop thru Heat Exchanger, kPa		50	
Max. Working Pressure – Water Side, kPa		700	
Water Connection		DN40	

TRW Series – Dual Compressor System



Water-to-Water heat pump models using an eco-friendly refrigerant R417A with a double compressor system that can obtain a maximum output of 60°C water temperature.

DESCRIPTION		TRW-40	TRW-50	TRW-90
TECHNICAL DATA				
Nominal Heating Capacity, kW		40	48	90
COP		4.6	4.6	4.5
Rated Input Power, kW		8.7	10.4	20
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50		
	60 Hz	380/3/60		
Refrigerant		R417A		
Refrigerant Factory Charge, g		2500*2	3000*2	4000*2
Rated Outlet Water Temperature, °C		55		
Max. Outlet Water Temperature, °C		60		
Dimensions (L x W x H), mm		1503 x 723 x 1070	1503 x 723 x 1070	1200 x 1000 x 1700
Noise Level, dB		60	60	64
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)		
IP Rating (Enclosure Class)		IPX4		
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault		
Metering Device		Electronic Expansion Valve		
Net Wt./Approx. Shipping Wt., kg		276/300	286/310	572/602
Testing		Run Tested at Factory Prior to Shipment		
COMPRESSOR				
Quantity/Type		2/Scroll		
Volts/Phase/Hertz	50 Hz	380/3/50		
	60 Hz	380/3/60		
Rated Load Amps, A		17.6	22.0	38
Locked Rotor Amps, A	50 Hz	59	67	133
	60 Hz	65	94	170
EVAPORATOR				
Heat Exchanger Type		Plate		
Cooling Side Water Flow Rate, m ³ /hr		6.9	8.3	15.5
Pressure Drop thru Heat Exchanger, kPa		50		
Max. Working Pressure – Water Side, kPa		700		
Water Connection		DN40	DN40	DN40
CONDENSER				
Heat Exchanger Type		Single Wall Tube in Tube (Option: Double Wall)		
Heating Side Water Flow Rate, m ³ /hr		6.9	8.3	15.5
Pressure Drop thru Heat Exchanger, kPa		50		
Max. Working Pressure – Water Side, kPa		700		
Water Connection		DN40	DN40	DN50

Note: Higher heating capacity models are available upon request.

TRWH Series – Single Compressor System

Water-to-Water heat pump models using an eco-friendly refrigerant R134A with a single compressor system that can obtain a maximum output of 70°C water temperature.

DESCRIPTION		TRWH-12	TRWH-15
TECHNICAL DATA			
Nominal Heating Capacity, kW		14	16.5
COP		3.7	3.6
Rated Input Power, kW		3.8	4.6
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50	
	60 Hz	380/3/60	
Refrigerant		R134A	
Refrigerant Factory Charge, g		3000	3400
Rated Outlet Water Temperature, °C		65	
*Max. Outlet Water Temperature, °C		70	
Dimensions (L x W x H), mm		859 x 829 x 850	859 x 829 x 850
Noise Level, dB		54	
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)	
IP Rating (Enclosure Class)		IPX4	
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault	
Metering Device		Electronic Expansion Device	
Net Wt./Approx. Shipping Wt., kg		135/148	
Testing		Run Tested at Factory Prior to Shipment	
COMPRESSOR			
Quantity/Type		1/Scroll	
Volts/Phase/Hertz	50 Hz	380/3/50	
	60 Hz	380/3/60	
Rated Load Amps, A		6.85	8.0
Locked Rotor Amps, A	50 Hz	60	72
	60 Hz	71	95
EVAPORATOR			
Heat Exchanger Type		Plate	
Cooling Side Water Flow Rate, m ³ /hr		2.4	2.8
Pressure Drop thru Heat Exchanger, kPa		50	
Max. Working Pressure – Water Side, kPa		700	
Water Connection		DN25	
CONDENSER			
Heat Exchanger Type		Single Wall Tube in Tube (Option: Double Wall)	
Heating Side Water Flow Rate, m ³ /hr		2.4	2.8
Pressure Drop thru Heat Exchanger, kPa		50	
Max. Working Pressure – Water Side, kPa		700	
Water Connection		DN40	

*An outlet water temperature of up to 75°C is obtainable for evaporator inlet temperatures above 20°C.

TRWH Series – Dual Compressor System



Water-to-Water heat pump models using an eco-friendly refrigerant R134A with a double compressor system that can obtain a maximum output of 70°C water temperature.

DESCRIPTION		TRWH-30	TRWH-60
TECHNICAL DATA			
Nominal Heating Capacity, kW		33	65.5
COP		3.7	3.7
Rated Input Power, kW		8.9	17.8
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50	
	60 Hz	380/3/60	
Refrigerant		R134A	
Refrigerant Factory Charge, g		3400*2	4000*2
Rated Outlet Water Temperature, °C		65	
*Max. Outlet Water Temperature, °C		70	
Dimensions (L x W x H), mm		1503 x 723 x 1070	1200 x 1000 x 1700
Noise Level, dB		62	62
Cabinet		Powder Painted Galvanized Steel (Option: SUS 304)	
IP Rating (Enclosure Class)		IPX4	
Safety Device		Compressor Thermal Overload, High & Low Water Temp, High Discharge Temp, Sensor Probe Fault	
Metering Device		Electronic Expansion Valve	
Net Wt./Approx. Shipping Wt., kg		286/310	572/602
Testing		Run Tested at Factory Prior to Shipment	
COMPRESSOR			
Quantity/Type		2/Scroll	
Volts/Phase/Hertz	50 Hz	380/3/50	
	60 Hz	380/3/60	
Rated Load Amps, A		17.6	39.4
Locked Rotor Amps, A	50 Hz	72	145
	60 Hz	95	179
EVAPORATOR			
Heat Exchanger Type		Plate	
Cooling Side Water Flow Rate, m ³ /hr		5.68	11.27
Pressure Drop thru Heat Exchanger, kPa		50	
Max. Working Pressure – Water Side, kPa		700	
Water Connection		DN40	DN40
CONDENSER			
Heat Exchanger Type		Single Wall Tube in Tube (Option: Double Wall)	
Heating Side Water Flow Rate, m ³ /hr		5.68	11.23
Pressure Drop thru Heat Exchanger, kPa		50	
Max. Working Pressure – Water Side, kPa		700	
Water Connection		DN40	DN50

*An outlet water temperature of up to 75°C is obtainable for evaporator inlet temperatures above 20°C.

Note: Higher heating capacity models are available upon request.

Dimensions

Equipment dimensions: L = length, W = width, H = height

Recommended clearance: A = water connection side

B = access panel side

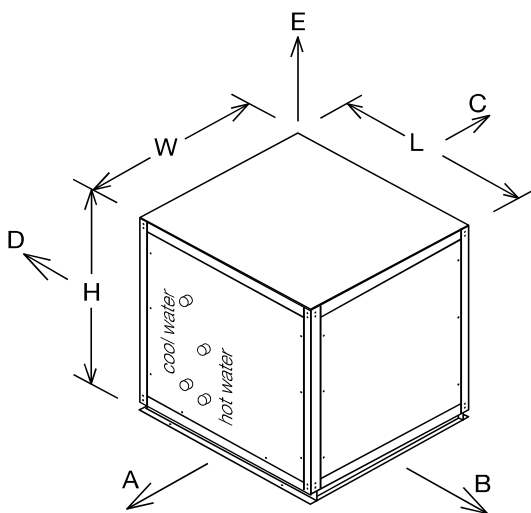
C = maintenance

D = maintenance

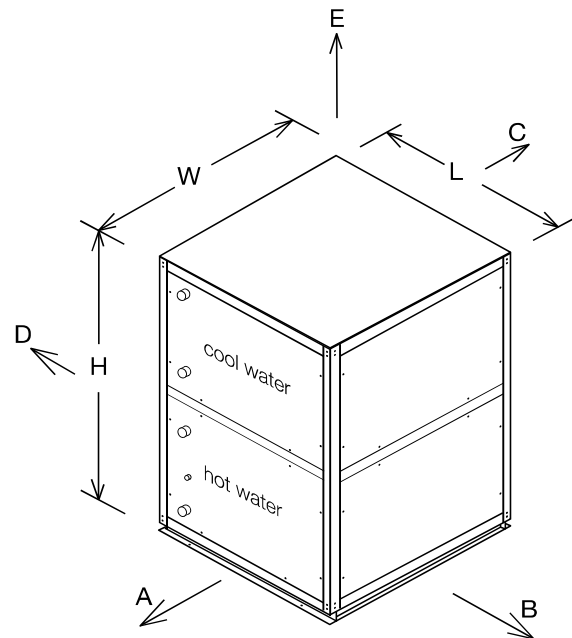
E = maintenance

MODEL	L	W	H	A	B	C	D	E
TRWH-12	859	829	850	800	800	300	300	300
TRWH-15	859	829	850	800	800	300	300	300
TRW-20	859	829	850	800	800	300	300	300
TRW-25	859	829	850	800	800	300	300	300
TRWH-30	1503	723	1070	1000	1000	300	300	300
TRW-40	1503	723	1070	1000	1000	300	300	300
TRW-50	1503	723	1070	1000	1000	300	300	300
TRWH-60	1200	1000	1700	1000	1000	300	300	300
TRW-90	1200	1000	1700	1000	1000	300	300	300

*All dimensions are in mm.



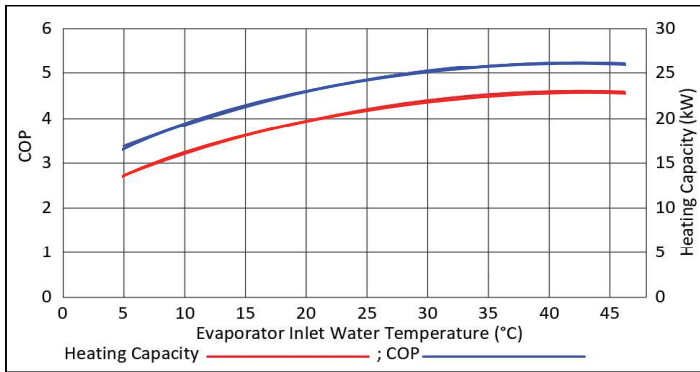
**TRW & TRWH – 12 to 25
Single Compressor System**



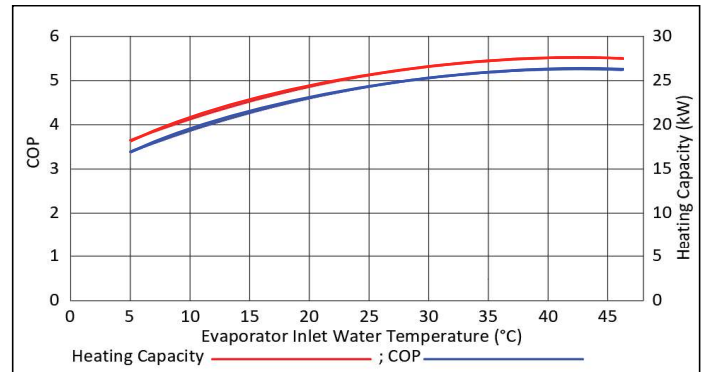
**TRW & TRWH – 30 to 90
Double Compressor System**

Performance Curve - TRW Models

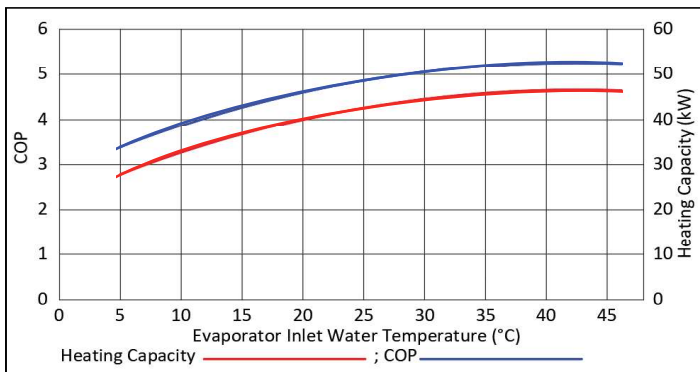
Performance rating indicated in the specification sheet was tested in the factory based on cooling side condition of 20°C inlet and 15°C outlet. Water is heated from 20°C to 55°C.



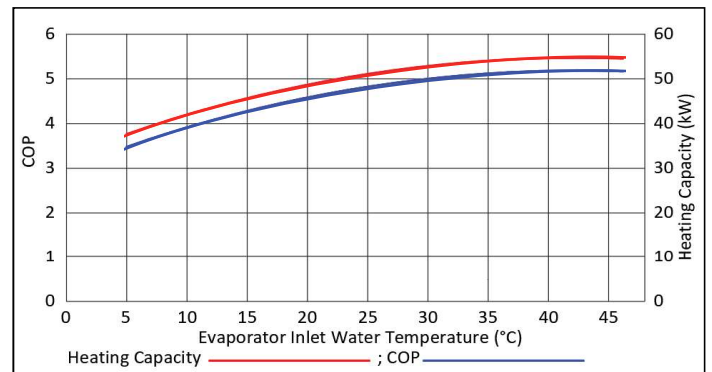
TRW-20



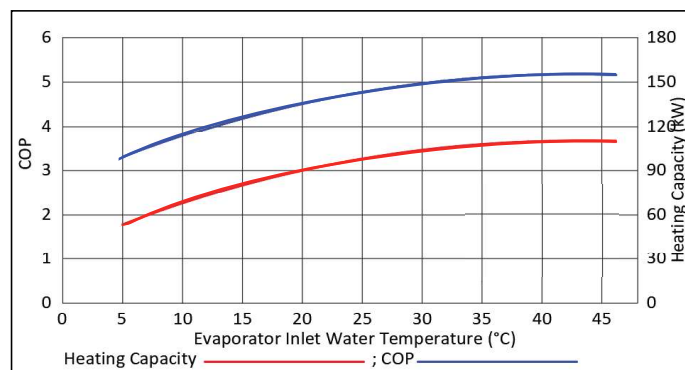
TRW-25



TRW-40



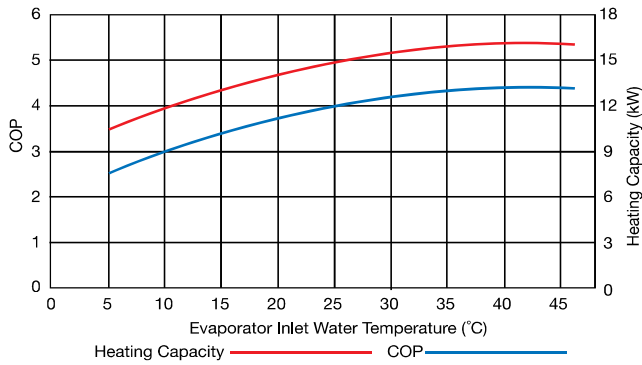
TRW-50



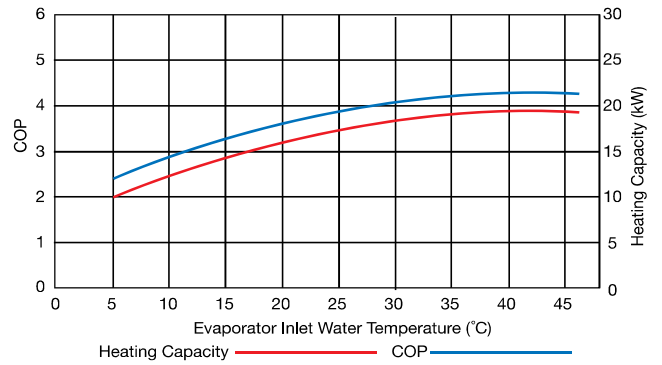
TRW-90

Performance Curve - TRWH Models

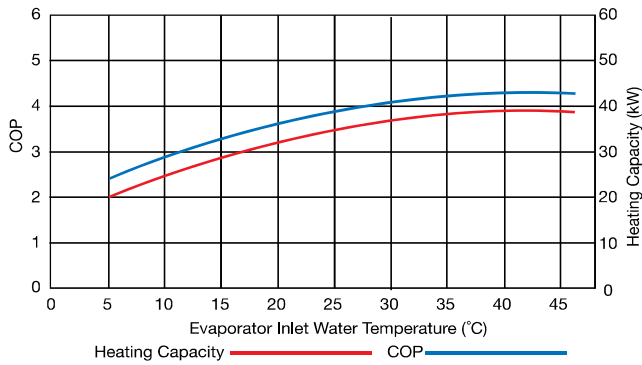
Performance rating indicated in the specification sheet was tested in the factory based on cooling side condition of 20°C inlet and 15°C outlet. Water is heated from 20°C to 65°C.



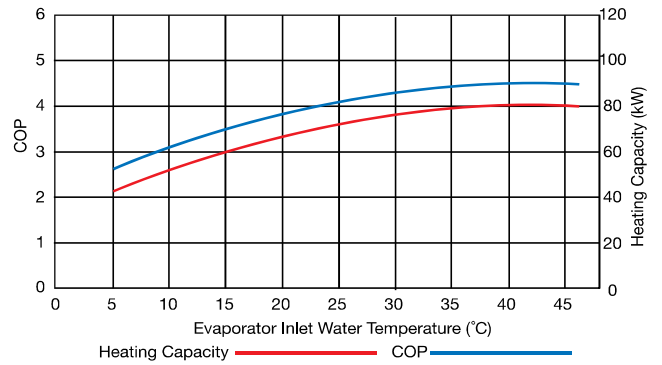
TRWH - 12



TRWH - 15



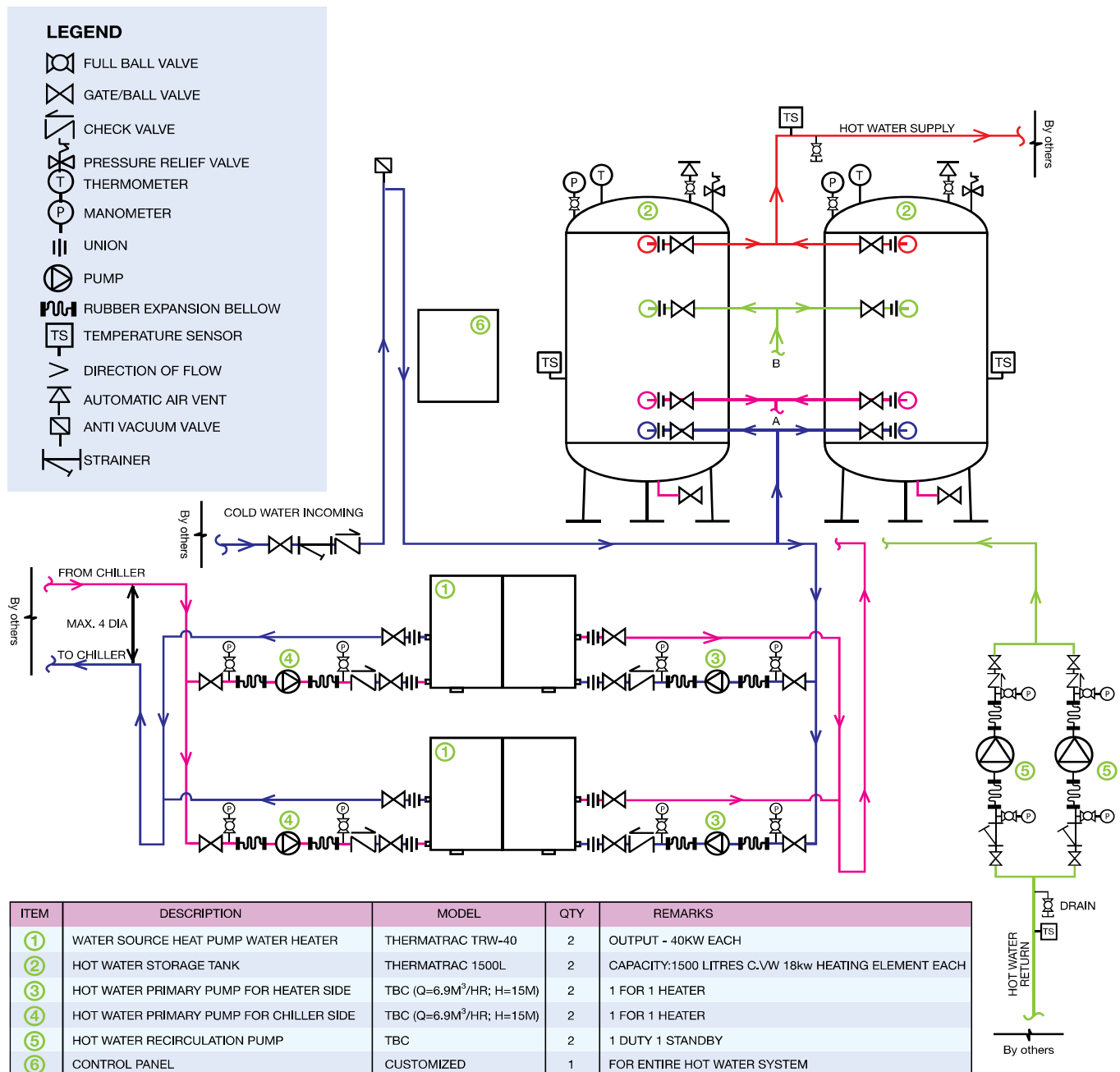
TRWH - 30



TRWH - 60

Typical Installation

In this system, hot water storage tanks and heat pump's heating side are connected in one loop. The primary pump for heating side circulates the water from the storage tank to heat pump; the primary pump for cooling/chiller side circulates the water from the chiller/cooling tower loop to the heat pump. Hot water supply going to the building comes from the topmost outlet of the storage tank. Recirculation pumps circulate the hot water from the entire building's plumbing system back to the storage tanks to ensure instant delivery of hot water on every service tap.



Selected Project Reference



Banyan Tree Resort, Indonesia



Belmond Hotel, Indonesia



Bulgari Hotel, Indonesia



Cape Weligama Resort, Sri Lanka



City Hotel, Sri Lanka



Conrad Hotel, Indonesia



Double Tree Hotel, Indonesia



Four Seasons Hotel, Indonesia



Goodwood Park Hotel, Singapore



Hilton Hotel, Indonesia



Hotel Nikko, Indonesia



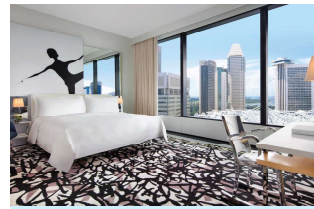
Holiday Inn Hotel, Indonesia



Janaki Hotel, Philippines



JJ Inn, Philippines



JW Marriot Hotel, Indonesia



Kempinski Hotel, Indonesia



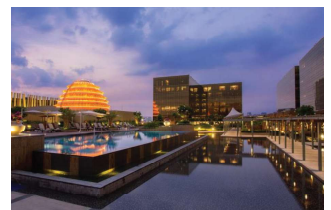
Langham Hotel, Indonesia



Le Meridien Hotel, Indonesia



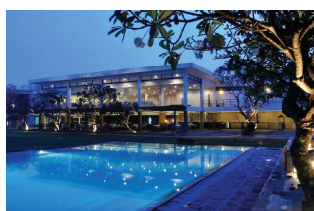
Mercure Hotel, Indonesia



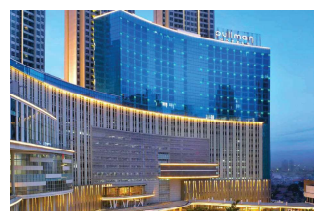
Nobu Hotel, Philippines



Novotel Hotel, Indonesia



Pegasus Hotel, Sri Lanka



Pullman Hotel, Indonesia



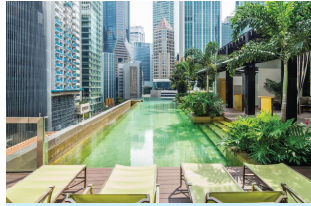
Red Planet Hotel, Philippines



Ritz-Carlton Hotel, Indonesia



Royal Square Hotel, Singapore



Sofitel Hotel, Indonesia



St Regis Hotel, Indonesia



Waldorf Astoria Hotel, Indonesia



Westin Hotel, Indonesia



Grassroot Club, Singapore



Tampines Town Hub, Singapore



Tanglin Club, Singapore



Temasek Club, Singapore



NUS, Singapore



SUTD, Singapore



Army Hospital, Sri Lanka



Assisi Hospice, Singapore



Ninewells Hospital, Sri Lanka



Thomson Medical, Singapore



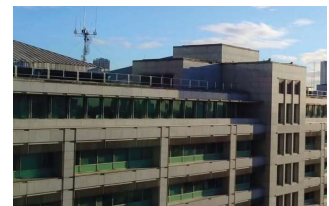
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