

HOT WATER SYSTEMS

THERMANN™

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HOT WATER YOU CAN DEPEND ON

Precision engineered for efficiency and long life, Thermann is setting new standards for hot water systems in Australia. Packed with innovative features and proven technology, Thermann delivers the ultimate hot water experience everyday. What's more, Thermann is committed to total customer care, so you'll enjoy market-leading warranties and full after sales support for many years to come.

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ELECTRIC LARGE HOT WATER SYSTEM



THERMANN ELECTRIC STORAGE HOT WATER UNITS ARE AN INSULATED STORAGE VESSEL EFFICIENTLY STORING HOT WATER, READY FOR USE, WHEN YOU NEED IT. THE THERMANN RANGE OF ELECTRIC WATER HEATERS OFFER SOLUTIONS IN EIGHT DIFFERENT SIZES TO SUIT YOUR NEEDS.

RANGE FEATURES

- Commercial grade enamel and a thicker anode
- Easy installation, with water connections on both sides of tank
- Full flow pressure to all outlets
- Australian made
- 10-year tank warranty, including 1-year full parts and labour*

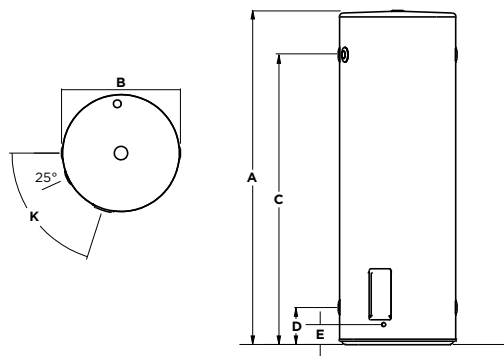
SPECIFICATIONS

Electric Tank

Measurements	80L	125L	160L	250L	315L	400L
Total Height (A)	925	1090	1315	1445	1765	1705
Total Diameter (B)	490	530	530	620	620	705
Outlet Height (C)	735	865	1120	1211	1531	1445
Inlet Height (D)	160	190	190	195	195	220
Electrical Entry (E)	85	100	100	105	105	130
Element Angle (K)	55°	55°	55°	72°	72°	72°
Storage Capacity	88	130	161	259	321	415
Hot Water Delivery	80	125	160	250	315	400
Net Weight Empty	41	51	61	72	92	110
Element Sizes (kW)	3.6	1.8, 3.6	2.4, 3.6	3.6	3.6	3.6
Relief Valve						
Pressure (kPa)	1000	1000	1000	1000	1000	1000
Max Inlet Pressure						
Without an ECV (kPa)	800	800	800	800	800	800
With an ECV (kPa)	650	650	650	650	650	650

Selecting the right unit for you

	80L	125L	160L
Inlet/Outlet	Dual Handed	Dual Handed	Dual Handed
No. People (continuous)	2-3	3-4	3-5
No. People (off peak)	0	0	1-3
	250L	315L	400L
Inlet/Outlet	Dual Handed	Dual Handed	Dual Handed
No. People (continuous)	3-5	4-6	5-9
No. People (off peak)	1-3	2-4	4-6





THERMANN TWIN ELEMENT ELECTRIC WATER HEATERS FEATURE A SECONDARY 'TOP' ELEMENT, TO HEAT AN ADDITIONAL CAPACITY OF WATER TO REDUCE THE CHANCE OF RUNNING OUT. THIS IS OFTEN REFERRED TO AS A 'BOOST CAPACITY', AND CAN BE CONTINUALLY HEATED AS HOT WATER IS USED.

TWIN ELEMENT FEATURES

- Cost effective – primary heating with off-peak and a continuous backup supply
- Flexible – ideal for varying hot water loads
- Limited tariffs – perfect for regions where
- Extended off-peak tariffs are unavailable
- Space efficient – for when there's no room for a larger tank
- Fast hot water – the boost capacity can be heated (and reheated) quickly

SPECIFICATIONS

Electric Tank - Twin Element

Measurements	250L	315L	400L
Total Height (A)	1445	1765	1705
Total Diameter (B)	620	620	705
Cold Water Inlet (C)	195	195	220
Hot Water Inlet (D)	1210	1530	1445
Electricity Entry (E)	105	105	130
Storage Capacity (L)	259	321	415
Hot Water Delivery Rating (L)	250	315	400
Boost Capacity (L)	50	50	80
Net Weight Empty (kg)	72	93	115
Element Sizes (kW)	2 x 3.6kW	2 x 3.6kW 2 x 4.8kW	2 x 4.8kW
Relief Valve			
Pressure (kPa)	1000	1000	1000
Max Inlet Pressure			
Without an ECV (kPa)	800	800	800
With an ECV (kPa)	650	650	650

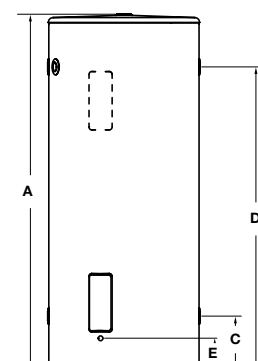
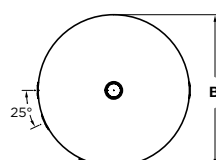
All Thermann electric storage water heaters are dual-handed for ease of installation and operate at 240V AC single phase electricity supply.



Cylinder



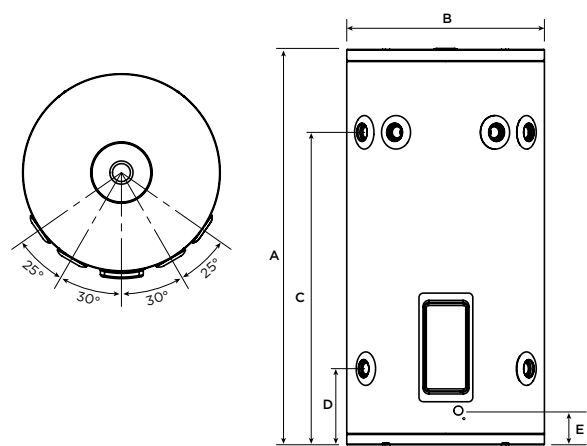
Parts and Labour



ELECTRIC SMALL HOT WATER SYSTEM



THERMANN SMALL ELECTRIC STORAGE HOT WATER UNITS ALLOW YOU TO INSTALL HOT WATER WHERE SPACE AND ACCESS IS RESTRICTIVE. WITH ITS “V FIT” CONFIGURATION, INLETS AND OUTLETS ARE CONFIGURED FOR EASE OF INSTALLATION. AVAILABLE IN ‘APPLIANCE WHITE’ FOR A MORE AESTHETICALLY PLEASING UNIT.



SPECIFICATIONS

Electric Tank

Measurements	25L	50L
Total Height (A)	455	670
Total Diameter (B)	405	405
Outlet Height (C)	275	490
Inlet Height (D)	145	145
Electrical Entry (E)	70	70
Element Angle (K)	55°	55°
Storage Capacity (litres)	31	50
Hot Water Delivery (litres)	25	50
Net Weight Empty (kg)	17	23
Element Size (kW)	2.4*, 3.6	2.4*, 3.6
Relief Valve		
Pressure (kPa)	1000	1000
Max Inlet Pressure		
Without an ECV (kPa)	800	800
With an ECV (kPa)	650	650

*2.4kW plug in only

Selecting the right unit for you

	25L	50L
Inlet/Outlet	Dual Handed	Dual Handed
No. People (continuous)	1	1-2
No. People (off peak)	0	0



Cylinder



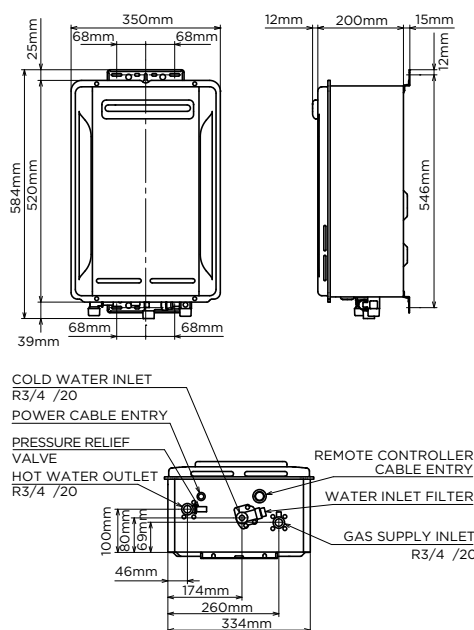
Parts and labour

CONTINUOUS FLOW 6*

HOT WATER SYSTEMS



THE THERMANN 6*, ENERGY EFFICIENT GAS CONTINUOUS FLOW UNIT ENSURES YOU WILL HAVE ENOUGH HOT WATER, WHEN YOU NEED IT. WITH A 12 YEAR WARRANTY, YOU CAN REST ASSURED YOU ARE COVERED FOR THE LIFE OF THE UNIT, AND UNIVERSAL CONTROLLERS ENSURE YOU ALWAYS HAVE PRECISE CONTROL OF YOUR HOT WATER TEMPERATURE SETTINGS.



Recess Box Painted (optional)



Universal Controller (optional)

SPECIFICATIONS

Continuous Flow 6*

Measurements	16L	20L	26L
Nominal hourly gas consumption by proportional electronic gas control (MJ/h)	125	158	200
Test point pressure (Natural Gas) (kPa)	0.56	0.8	0.8
Test point pressure (Propane) (kPa)	0.91	1.4	1.5
Minimum water pressure (kPa)	60	90	110
Maximum water pressure (kPa)	1200	1200	1200
Minimum gas inlet pressure (kPa)	NG 1.13 LPG 2.75	NG 1.13 LPG 2.75	NG 1.13 LPG 2.75
Maximum gas inlet pressure (kPa)	NG 5.0 LPG 7.0	NG 5.0 LPG 7.0	NG 5.0 LPG 7.0
Minimum Flow Rate Ignition (l/min)	2.7	2.7	2.7
Input voltage single phase 50Hz (V)	240	240	240
Maximum output current (A)	0.39	0.45	0.46
Inlet gas connection male thread	R3/4" (20mm)	R3/4" (20mm)	R3/4" (20mm)
Cold water connection male thread	R3/4" (20mm)	R3/4" (20mm)	R3/4" (20mm)
Hot water connection male thread	R3/4" (20mm)	R3/4" (20mm)	R3/4" (20mm)
Relief valve pressure setting (kPa)	1400	1400	1400
Weight dry (kg)	15	15	16
Dimensions (HxWxD mm)	520x350x200	520x350x200	520x350x200

Optional Accessories	Code
Universal controller with 15m cable	9505082
6* Recess Box Painted	9505219
6* Recess Box Gal	9505218
6* Locking Bracket	9504679
6* Flue Diverter	9505161

Selecting the right unit for you

	16L	20L	26L
No. Bathrooms	1	1-2	2-3
Energy Rating (Stars) (50°C)	6.3	6.5	6.1
Energy Rating (Stars) (60°C)	6.0	6.0	6.0
Capacity @ 25° rise (L/min)	16L	20L	26L
Capacity @ 40° rise (L/min)	10	12.5	16.25
Gas Type Available	NG, LPG	NG, LPG	NG, LPG



Heat Exchanger Parts and labour

CONTINUOUS FLOW C7

HOT WATER SYSTEM



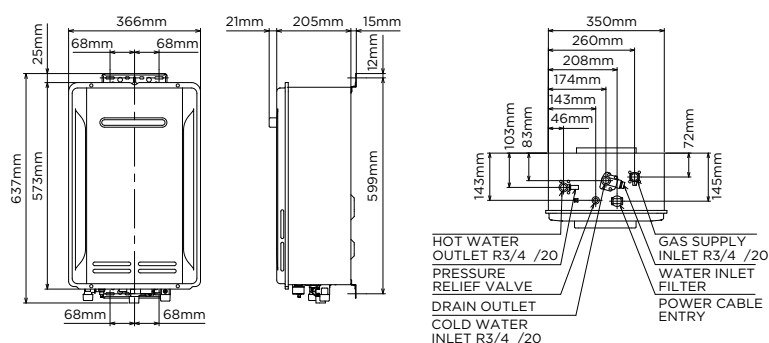
THE THERMANN C7 HIGH EFFICIENCY GAS CONTINUOUS FLOW UNIT ENSURES YOU WILL HAVE ENOUGH HOT WATER, WHEN YOU NEED IT. THIS UNIT HAS BEEN DEVELOPED TO REDUCE WASTED ENERGY BY PRE-HEATING THE WATER USING HEAT FROM THE GAS EXHAUST, MEANING YOU'LL USE LESS ENERGY. WITH A 12 YEAR WARRANTY, YOU CAN REST ASSURED YOU ARE COVERED FOR THE LIFE OF THE UNIT, AND OPTIONAL UNIVERSAL CONTROLLERS ENSURE YOU ALWAYS HAVE PRECISE CONTROL OF YOUR HOT WATER TEMPERATURE SETTINGS. THE UNIT IS AVAILABLE AS A 26L MODEL IN BOTH NG AND LPG TO SUIT YOUR GAS TYPE.

- 15% More efficient (26ng50c compared to 26ng50)
- Japanese technology and manufacture
- AGA approved
- Over 50 years of manufacturing experience
- Product quality guarantee
- Watermark approved
- Available in NG and LPG in 50 and 60 degree models
- Optional universal controllers available

SPECIFICATIONS

Continuous Flow C7

Features	26L
Nominal hourly gas consumption (MJ/h)	173
Test point pressure NG (kPa)	0.84
Test point pressure LPG (kPa)	1.27
Minimum water pressure (kPa)	115
Maximum water pressure (kPa)	1200
Minimum gas inlet pressure NG (kPa)	1.13
Minimum gas inlet pressure LPG (kPa)	2.75
Maximum gas inlet pressure NG (kPa)	5.0
Maximum gas inlet pressure LPG (kPa)	7.0
Minimum flow rate ignition (L/min)	2.7
Input voltage single phase 50HZ (v)	240
Maximum output current (A) - inc. anti-frost heater	
Inlet gas connection male thread	R3/4" (20mm)
Cold water connection male thread	R3/4" (20mm)
Hot water connection male thread	R3/4" (20mm)
Condensate connection male thread	R1/2" (15mm)
Relief valve pressure setting (kPa)	1400
Weight dry (kg)	20.5
Dimensions (DxWxH mm)	205x366x573



Selecting the right unit for you

	26L
No. Bathrooms	2-3
Energy Rating 50°C (stars)	7.3
Energy Rating 60°C (stars)	7.0
Capacity at 25°C rise (L/min)	26
Capacity at 40°C rise (L/min)	16.25
Gas Type Available	NG, LPG



Heat Exchanger

IAPMO Approval Certificate no. GMK10409.
Watermark Certificate of Compliance WMKA-000506

CONTINUOUS FLOW C7

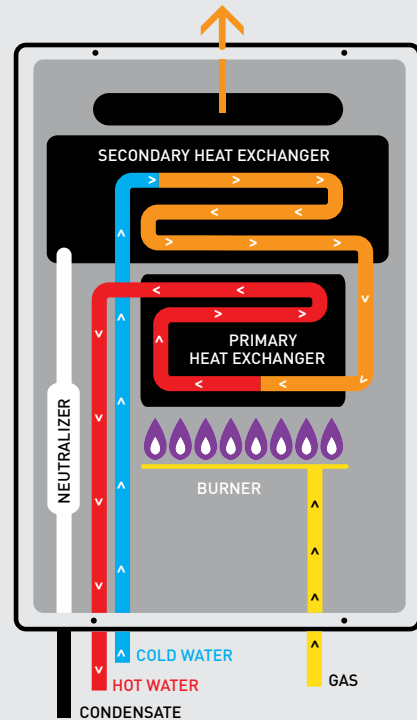
HOT WATER SYSTEM

HOW IT WORKS

DEVELOPED TO REDUCE WASTED ENERGY, THIS UNIT PRE-HEATS THE WATER USING HEAT FROM THE GAS EXHAUST, MEANING YOU'LL USE LESS ENERGY.

THE PROCESS

1. A hot water tap is turned on
2. Water enters the heater
3. The water flow sensor detects the water flow
4. The computer automatically ignites the burner
5. Water circulates through the heat exchanger
6. The heat exchanger heats the water to the designated temperature
7. When the tap is turned off, the unit shuts down



*Thermann model 26NG50C when compared to 26NG50, based on comparative energy consumption when tested to AS 4552.

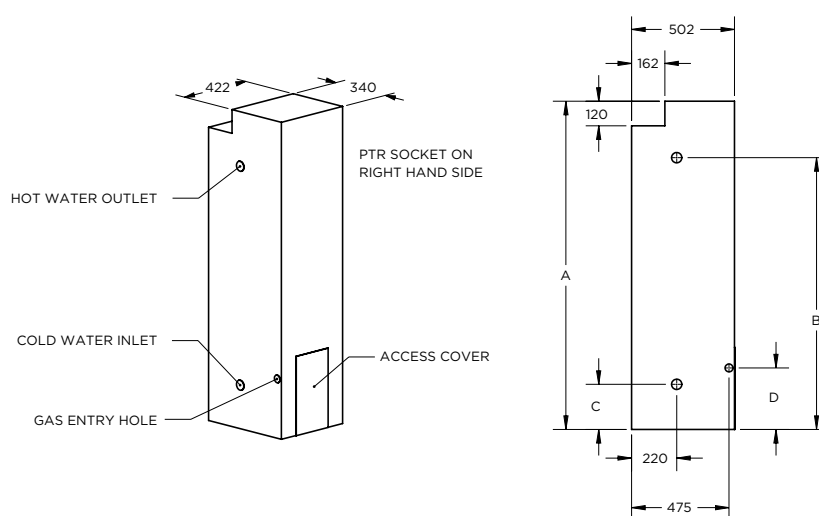
**AS 4552 limits the rating shown on the energy label to 6.0 Stars. Where the calculated rating exceeds 6.0 Stars it is designated as an "equivalent" rating.

GAS STORAGE

HOT WATER SYSTEM



THE THERMANN 4* GAS HOT WATER HEATER CAN SUIT ANY FAMILY TYPE. WITH AN ADJUSTABLE THERMOSTAT FOR SAFETY AND EFFICIENCY IT ALLOWS YOU TO BE IN CONTROL OF YOUR OPERATING COSTS AND PERFORMANCE. THE UNIT HAS A SMALL FOOTPRINT WHICH MAKES IT IDEAL FOR REPLACING A 3* CHANGEOVER.



SPECIFICATIONS

Gas Tank

Measurements	135L	170L
Capacity (litres)	135	170
Net Weight Empty (kg)	72	86
Relief Valve Pressure (kPA)	1400	1400
Gas Consumption (MJ/h)	135NG = 29.5 135LPG = 28	170NG = 33.5
Recovery rate @ 45°C rise (L/hr)	130	146
First Hr Delivery	265	316
Dimensions (mm)	135L	170L
Height (A)	1600	1900
Hot Water Outlet (B)	1325	1620
Cold Water Inlet (C)	220	220
Gas Inlet (D)	300	300
Water Inlet/Outlet	Left	Left

Selecting the right unit for you

	135L	170L
No. People	3-4	4-5



Cylinder



Parts and labour

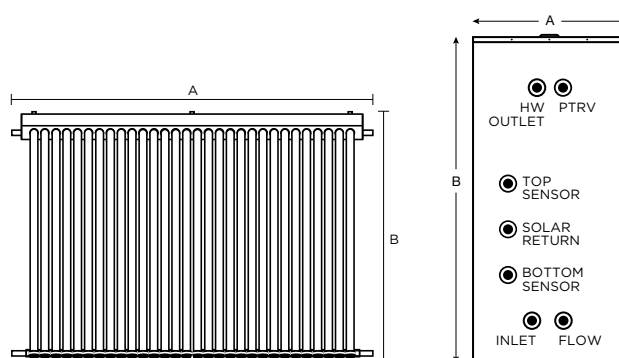
Specifications correct for gas storage models manufactured after 1 August 2016.

EVACUATED TUBE SOLAR

ELECTRIC BOOSTED



THERMANN EVACUATED TUBE SOLAR ELECTRIC BOOSTED SYSTEMS HARNESS THE SUN'S ENERGY TO HEAT YOUR WATER. AN ELECTRIC ELEMENT IN THE TANK PROVIDES BACK UP IF NEEDED, ENSURING PEACE OF MIND, WHILST ALSO REDUCING YOUR RUNNING COSTS AND ENVIRONMENTAL FOOTPRINT.



SPECIFICATIONS

Electric Boosted Tank

Measurements (mm)	250L BOT	315L BOT	315L MID	400L BOT	400L MID
Tank Diameter (A)	617	617	617	705	705
Tank Height (B)	1445	1765	1765	1704	1704
HW Outlet	1211	1531	1531	1445	1445
PTRV Port	1211	1531	1531	1445	1445
Top Sensor Port	786	872	872	809	832
Solar Return Port	567	566	504	536	554
Bottom Sensor	347	355	326	340	357
Solar Flow	197	197	197	219	219
Cold Water Inlet	197	197	197	219	219
Dry Weight (kg)	71	92	92	116	116

Selecting the right unit for you

	250L	315L	400L
No. People	3-5	4-6	5-9
No. Tubes	22	30	44

*Other kit configurations available



Tubes



Tank



Parts and Labour

Roof Collector

Measurements (mm)			Dry Weight	
Collector	Width (A)	Length (B)	WO/Tubes	W/Tubes
22 Tubes	1636	2005	20kg	80.7kg
30 Tubes	2196	2005	24kg	105.7kg

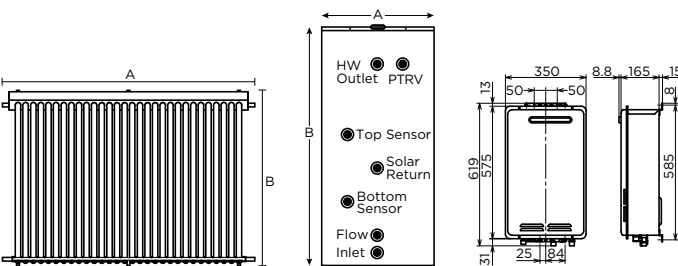
Dry weights based on 2 track flush mount frame.

EVACUATED TUBE SOLAR

GAS BOOSTED



THERMANN EVACUATED TUBE SOLAR GAS BOOSTED SYSTEMS OFFER RELIABILITY AND EFFICIENCY. PASSIVE SUN TRACKING MEANS MORE OF THE SUN’S RAYS ARE CONVERTED TO USABLE HOT WATER THROUGHOUT THE DAY - REDUCING YOUR POWER BILLS. WITH THE GAS BOOSTED CONTINUOUS FLOW UNIT, YOU’LL NEVER RUN OUT OF HOT WATER, NO MATTER THE WEATHER.



SPECIFICATIONS

Gas Boosted Tank

Measurements (mm)	250L GAS	315L GAS	400L GAS
Tank Diameter (A)	617	617	705
Tank Height (B)	1445	1765	1704
HW Outlet	1211	1531	1445
PTRV Port	1211	1531	1445
Top Sensor Port	992	1258	1208
Solar Return Port	764	953	932
Bottom Sensor	457	551	554
Solar Flow	197	197	219
Cold Water Inlet	197	197	219
Dry Weight (kg)	71	92	116

Selecting the right unit for you

	160L	250L	315L	400L
No. People	1-2	3-5	4-6	5-9
No. Tubes	22	22	30	44
Gas Booster	26L	26L	26L	26L



Tubes



Tank



Parts and Labour

For 26L Gas Continuous Flow specifications and warranty information refer to page 6.

Roof Collector

Measurements (mm)			Dry Weight	
Collector	Width (A)	Length (B)	WO/Tubes	W/Tubes
22 Tubes	1636	2005	20kg	80.7kg
30 Tubes	2196	2005	24kg	105.7kg

Dry weights based on 2 track flush mount frame.

EVACUATED TUBE SOLAR

HOW IT WORKS

STEP 1

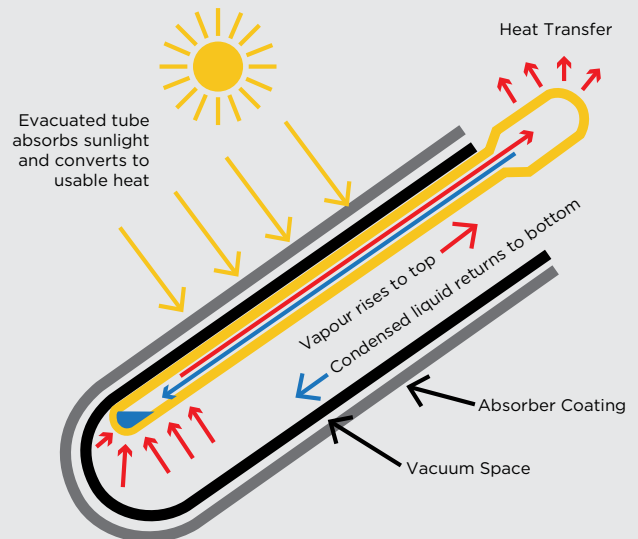
The sunlight strikes the dark absorber coating inside the tube.

STEP 2

The heat pipe transfers the heat up to the copper header pipe location in the insulated manifold box.

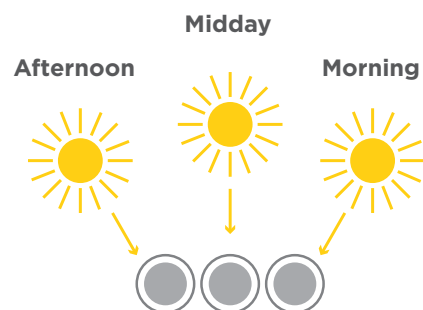
STEP 3

A circulator moves water from the storage tank to the copper pipe warming the water. The solar heated water is then pushed down into the storage tank for use. Anti-frost is built in to the Thermann system to ensure solar hot water can be provided even in cold regions.



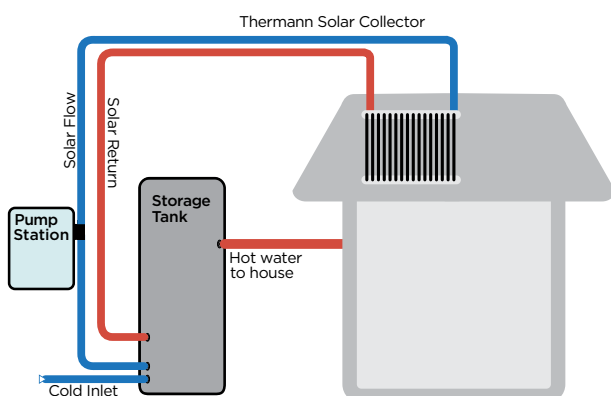
PASSIVE SUN TRACKING

The round tube design of the system passively tracks the sun throughout the day giving the highest possible performance from early morning through to late afternoon.

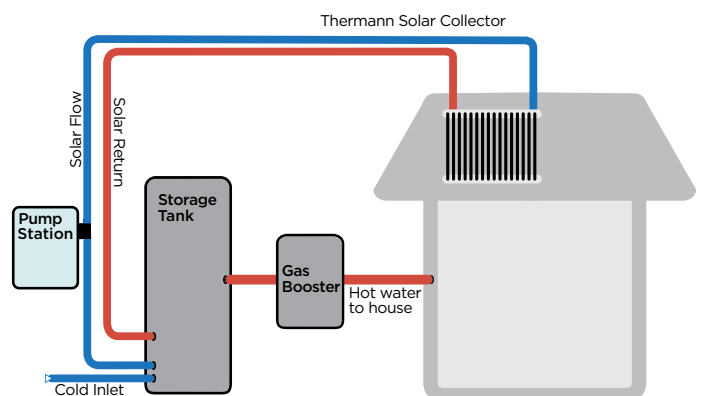


ELECTRIC & GAS SETUPS

Electric Booster



Gas Booster



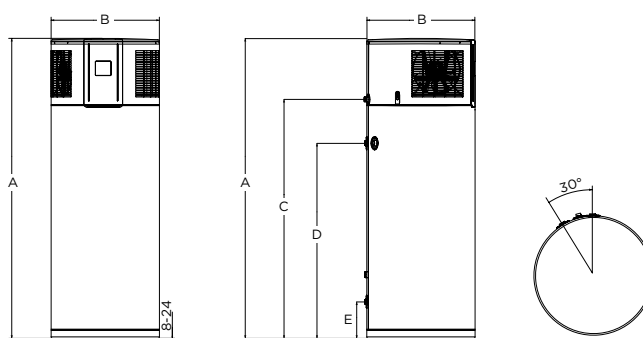
Note: Diagram not to scale - basic system overview (not installation guide).

HEAT PUMP X

HOT WATER SYSTEM



ENGINEERED IN GERMANY FOR AUSTRALIAN CONDITIONS, THE **THERMANN X HYBRID HEAT PUMP** EXTRACTS HEAT FROM AMBIENT AIR AND QUIETLY TRANSFERS IT TO HEAT WATER. IT COMES WITH A REMOVABLE CASING FOR EASY CLEANING AND SERVICING WHERE ACCESS IS LIMITED. WITH A BUILT IN MANUAL ELEMENT BOOST, FOR HIGH DEMAND CONDITIONS, AND SOLAR PV READY IT TRULY IS THE SMART WAY TO HEAT YOUR WATER.



SPECIFICATIONS

Thermann Hybrid

Electrical details	220L	300L
Rated Voltage	230	230
Rated Current (Amps)	9.70	9.70
Power Consumption Boost Element (kW)	1.6	1.6
Specifications		
Application Range (Operating Temp.)	-5 to +42°C	-5 to +42°C
Seasonal Coefficient of Performance (COP)	3.94	3.58
PTR Valve (kPa)	700	700
Refrigerant	R134a	R134a
Refrigerant Capacity (kg)	0.85	0.85
Anode Type	Maintenance-Free Impressed Current Anode	Maintenance-Free Impressed Current Anode
Measurements		
Cylinder Capacity (L)	220	300
Total Height (A)	1545	1913
Total Diameter (B)	690	690
Electrical Entry (C)	1160	1150
Outlet Height (D)	935	1287
Inlet Height (E)	218	218
Weight (Empty)	120	135



Cylinder

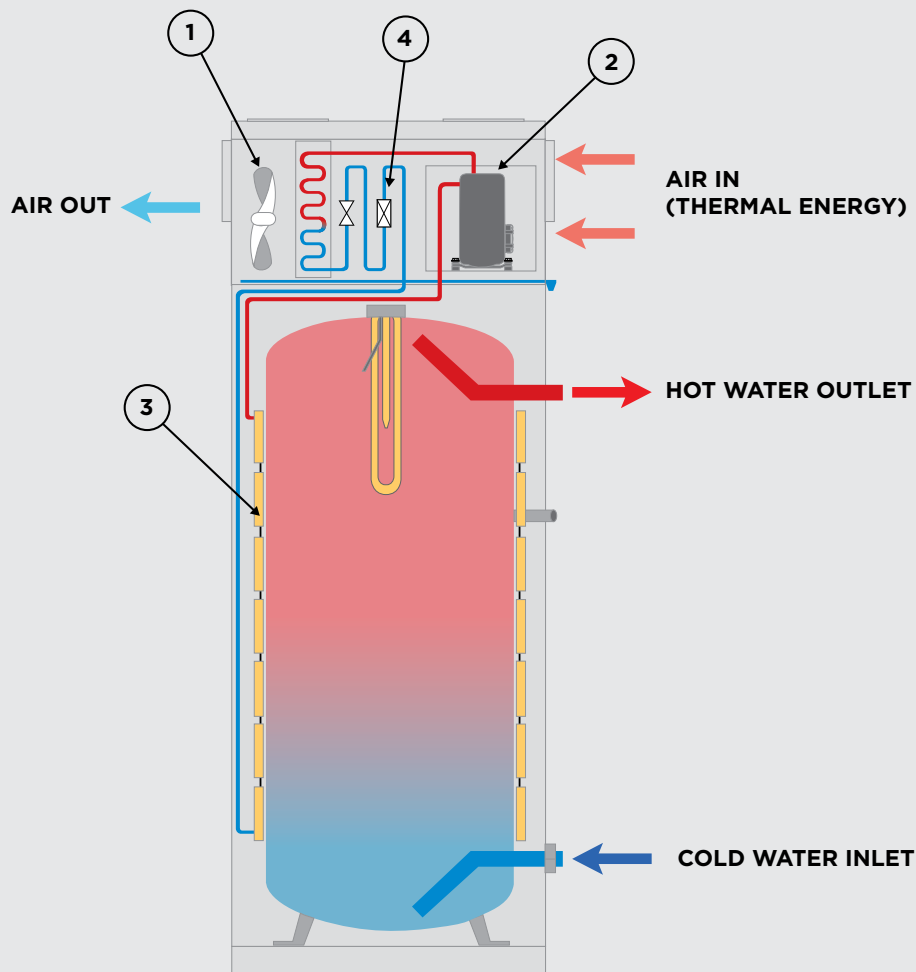


Parts and labour

HEAT PUMP X

HOT WATER SYSTEM

HOW IT WORKS



1. A fan draws air through an evaporator. Thermal energy within the air is transferred to a liquid refrigerant causing it to change into a gas.
2. The refrigerant gas is then drawn into a compressor which increases the pressure and as a result increases the temperature.
3. A condenser (heat exchanger) then transports the hot gas refrigerant around the outside of the water tank. This heats the water inside the tank and the gaseous refrigerant reverts into a liquid.
4. The pressure of the refrigerant is reduced as it goes through an expansion valve and returns to the evaporator for the process to start again.

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