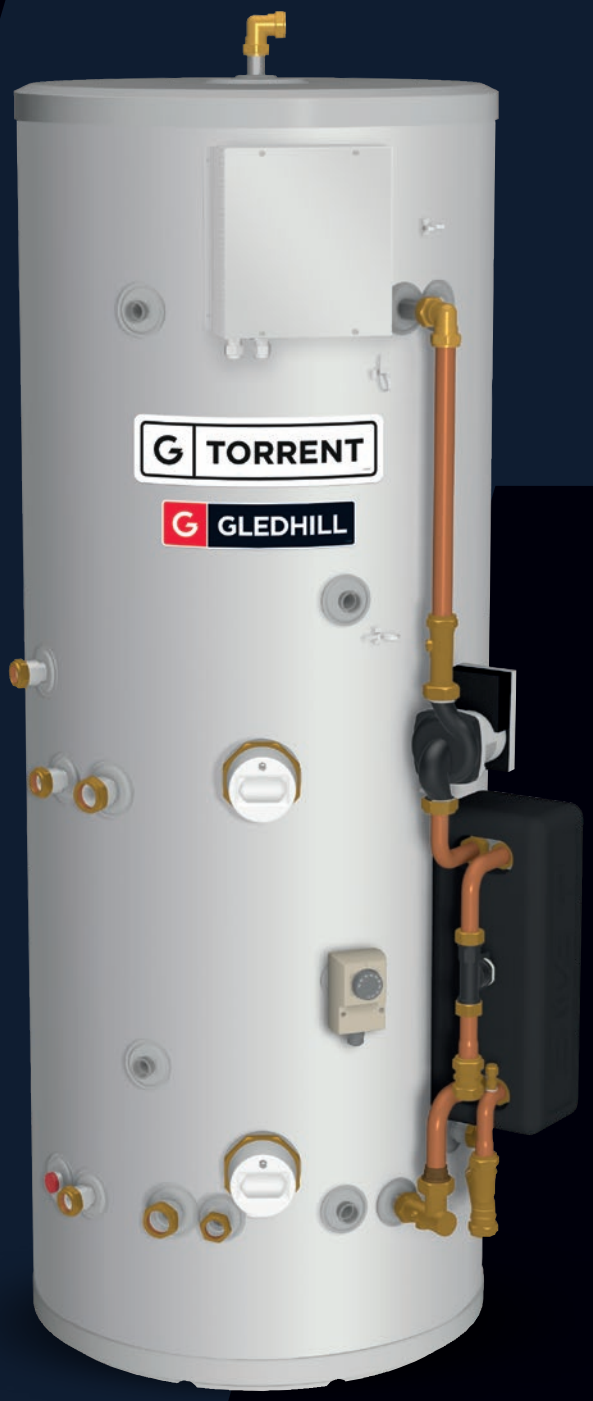
GLEDHILL

TORRENT STAINLESS

OPEN VENTED THERMAL STORE
PROVIDING HEATING AND MAINS
PRESSURE HOT WATER



ONE NAME. EVERY SOLUTION.

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WHAT IS A THERMAL STORE?

A THERMAL STORE IS THE PERFECT SOLUTION FOR A HOME'S HEATING AND WATER REQUIREMENTS. TORRENT OFFERS MORE OPTIONS THAN ANY OTHER STORE OR CYLINDER, AND IS DESIGNED TO REDUCE HEATING COSTS BY OFFERING COMPLETE FLEXIBILITY FOR HOUSEHOLDERS TO USE MULTIPLE ENERGY SOURCES.

The hot water within the store circulates around the heating system to heat the property, while mains cold water is instantaneously heated through a plate heat exchanger, to provide hot water.

All our Torrent models are open vented, enabling uncontrolled heat sources such as woodburning stoves to be used.

BENEFITS OF THERMAL STORES

- PROVIDE MAINS PRESSURE HOT WATER
- USE FOR BOTH HEATING AND HOT WATER
- NO ANNUAL MAINTENANCE OR SAFETY CHECK REQUIREMENT
- NO DISCHARGE PIPEWORK
- NO RISK OF LEGIONELLA
- NO G3 QUALIFICATION REQUIREMENT

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TORRENT STAINLESS

THE TORRENT STAINLESS IS MANUFACTURED FROM STAINLESS STEEL AT OUR BLACKPOOL HEADQUARTERS.

Torrent provides the flexibility for homeowners to select the thermal store which best suits their requirements, allowing them to maximise the available heat sources, whether they are traditional boilers, electric immersions, or increasingly popular alternative energy fuel sources.

The cylinder is open vented, enabling uncontrolled heat sources such as woodburning stoves to be used.

- FLOW SENSOR PROVIDES A FAST RESPONSE TIME FOR HOT WATER SUPPLY
- INTEGRATED PCB AND SOFTWARE
- HIGH STORE TEMPERATURES CAN BE UTILISED, PROVIDING GREATER BENEFIT FROM SOLID FUEL INPUTS
- ENERGY SAVING WITH A HIGH EFFICIENCY PUMP

5 YEAR WARRANTY

GAS OR OIL BOILERS

IMMERSION HEATER

SOLID FUEL

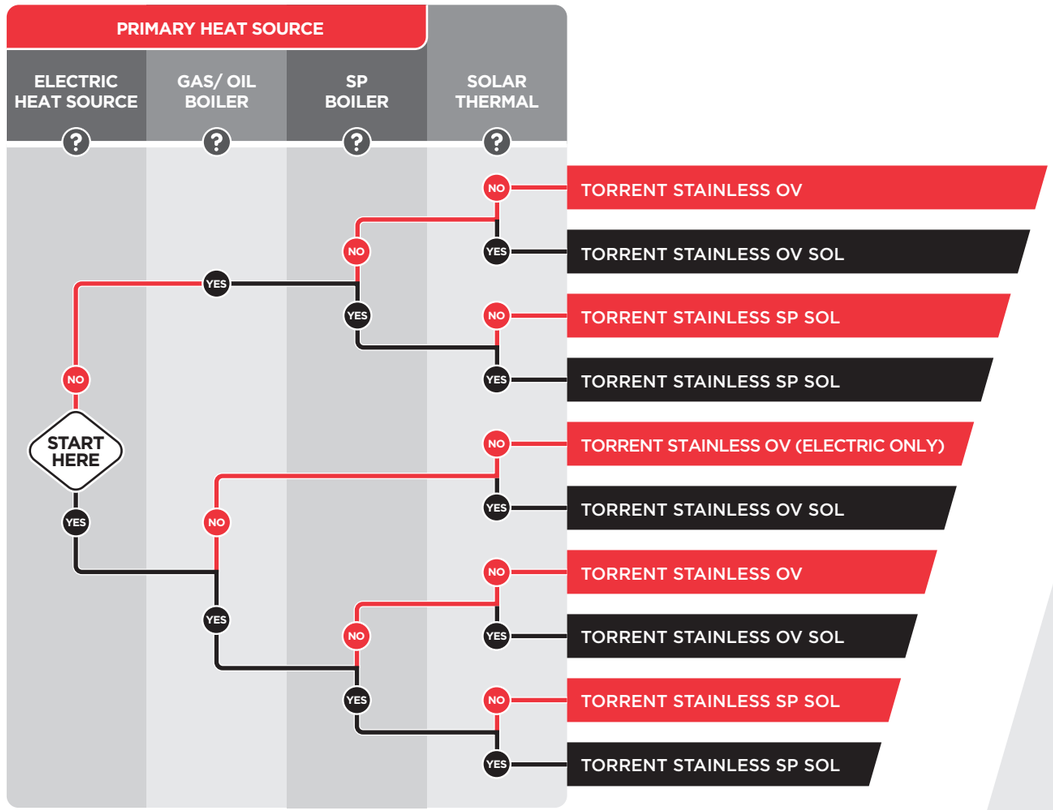
SOLAR THERMAL

WHICH PRODUCT DO I NEED?

OUR SELECTION CHART BELOW WILL HELP YOU IDENTIFY THE MOST SUITABLE TORRENT STAINLESS MODEL FOR YOUR INSTALLATION.

To use the chart, identify the available heat sources for your cylinder in each section, and follow the lines to identify the model required.

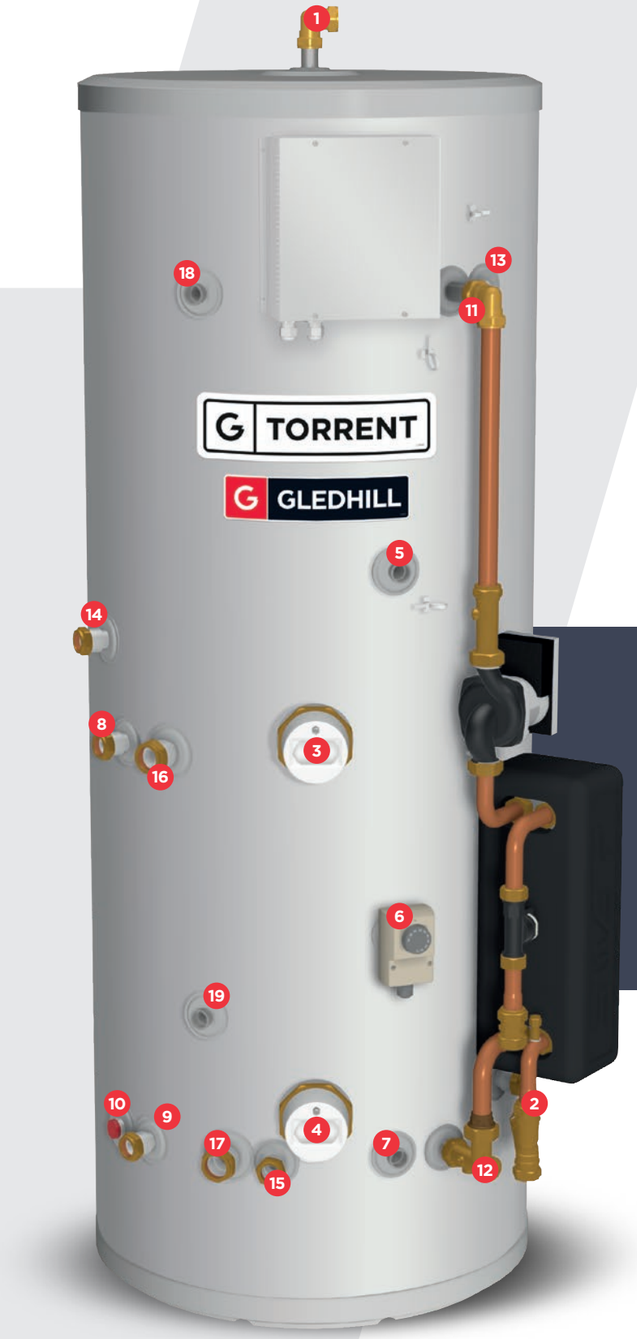
DOES THE SITE HAVE:



- All models come complete with back up immersion.
- All models come complete with solid fuel connections.
- Where a Torrent STAINLESS SP is selected, heating should be provided directly by the boiler as the store will only provide auxiliary heating.
- Where a Torrent STAINLESS SP is selected and no solar input is required, connecting the solar and boiler coils will maximise the boiler input and reduce reheat times.

TORRENT STAINLESS OV

150 | 180 | 210 | 250 | 350 LITRES



KEY FEATURES

- Utilises open vented boiler to heat the store directly, with 3kW immersion heaters for emergency back-up
- 3kW immersion heaters available when electric only is used as the primary heat source
- Utilises solid fuel connections
- Provides mains pressure hot water
- Blanking caps supplied

COMPONENTS

1 Open vent
2 Cold feed
3 On-peak immersion heater
4 Off-peak immersion heater
5 Control thermostat
6 Control thermostat
7 Control thermostat
8 Central heating flow
9 Central heating return
10 Drain
11 Plate heat exchanger flow
12 Plate heat exchanger return
13 Domestic hot water store sensor
14 Open vented flow
15 Open vented return
16 Solid fuel flow
17 Solid fuel return
18 Solid fuel overheat thermostat
19 Solid fuel control thermostat

5 YEAR WARRANTY

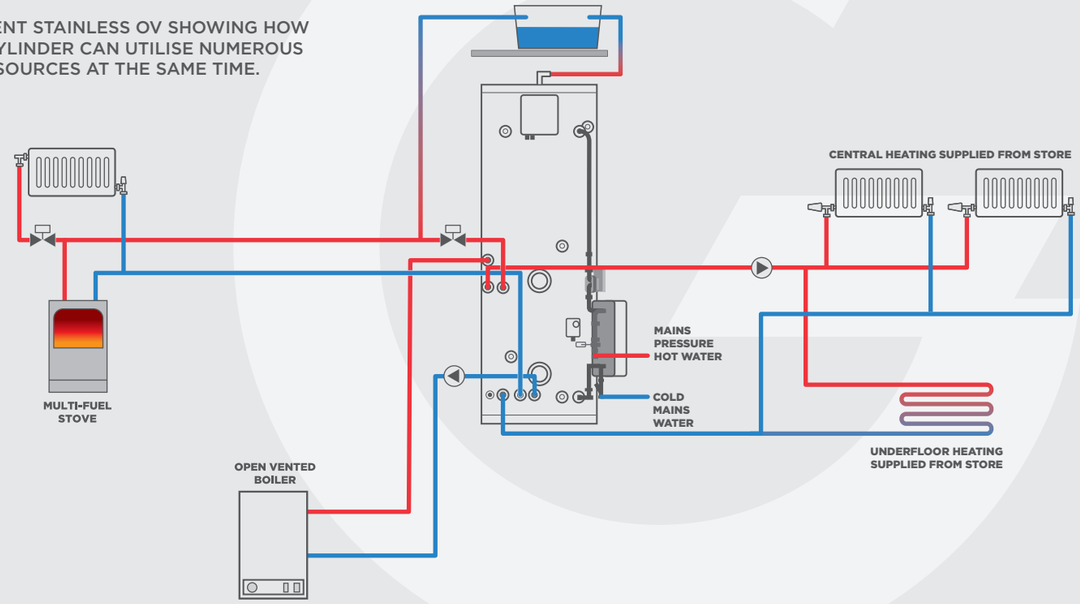
IMMERSION HEATER

GAS OR OIL BOILERS

SOLID FUEL

TECHNICAL SPECIFICATION

TORRENT STAINLESS OV SHOWING HOW THE CYLINDER CAN UTILISE NUMEROUS HEAT SOURCES AT THE SAME TIME.



TORRENT STAINLESS OV

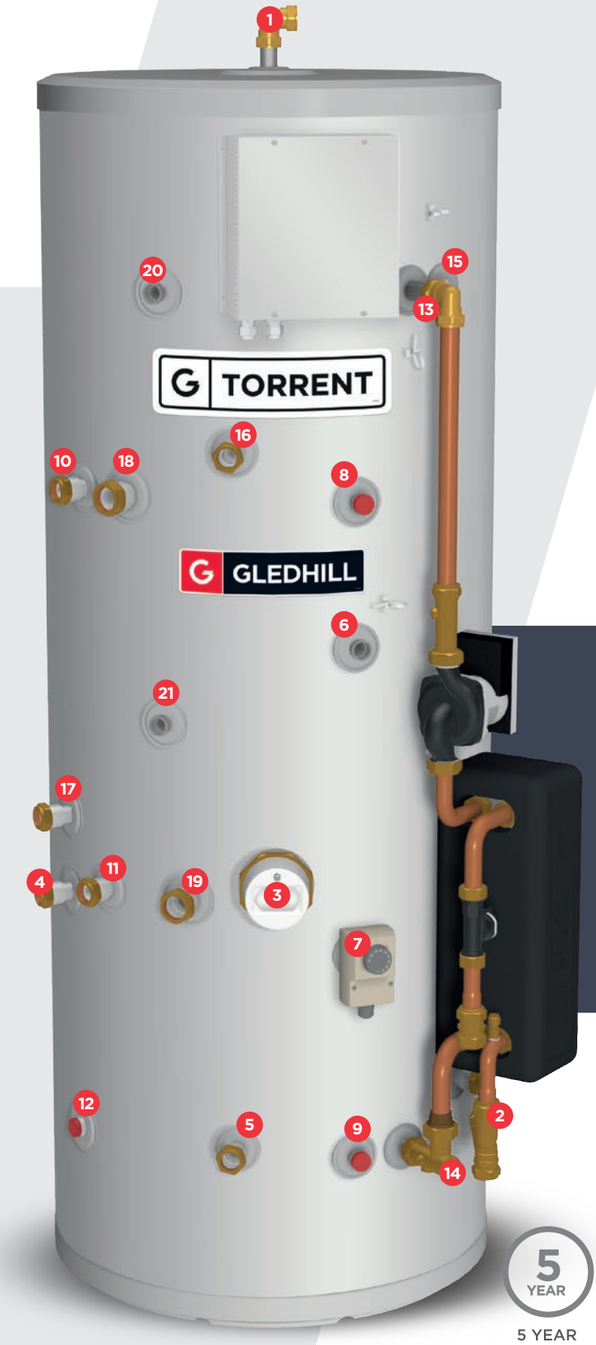
Description		TST150OV	TST180OV	TST210OV	TST250OV	TST350OV
ErP rating		B	B	B	C	C
Heat loss	watts	47	55	62	74	79
Capacity	litres	148	178	208	248	345
Unit height	mm	1118	1306	1494	1744	1765
Unit diameter	mm	550	550	550	550	630
Max. hot water flow rate	litres/minute	26.5	26.5	26.5	26.5	26.5
Maximum dwelling type	bath	1	1	2	2	3
	shower room	-	1	1	2	2
	bed	1-2	2-3	2-3	3-4	4-5

NOTES:

- Additional height for feed and expansion tank will need to be allowed if it is to be sited in the same cupboard.
- Vent pipes shown through the side of the feed and expansion tank may not be suitable for all systems. Installers must check suitability.
- The standard open vented store relies on a feed and expansion tank suitably sited above the highest radiator point to provide sufficient head for the system.
- The feed and expansion tank must be sized to take the water expansion of the whole system (ie. solid fuel boiler, cylinder, open flue boiler and auxiliary heating).
- The feed and expansion tank is not supplied as standard with the unit, but is available as an optional extra at the time of order.
- For solid fuel applications, copper feed and expansion tanks are available as an optional extra at the time of order.

TORRENT STAINLESS OV SOL

150 | 180 | 210 | 250 | 350 LITRES



KEY FEATURES

- Specifically designed for use with solar thermal panels
- Utilises open vented boiler to heat the store directly
- 3kW immersion heater for emergency back-up
- Utilises solid fuel connections
- Provides mains pressure hot water
- Blanking caps supplied

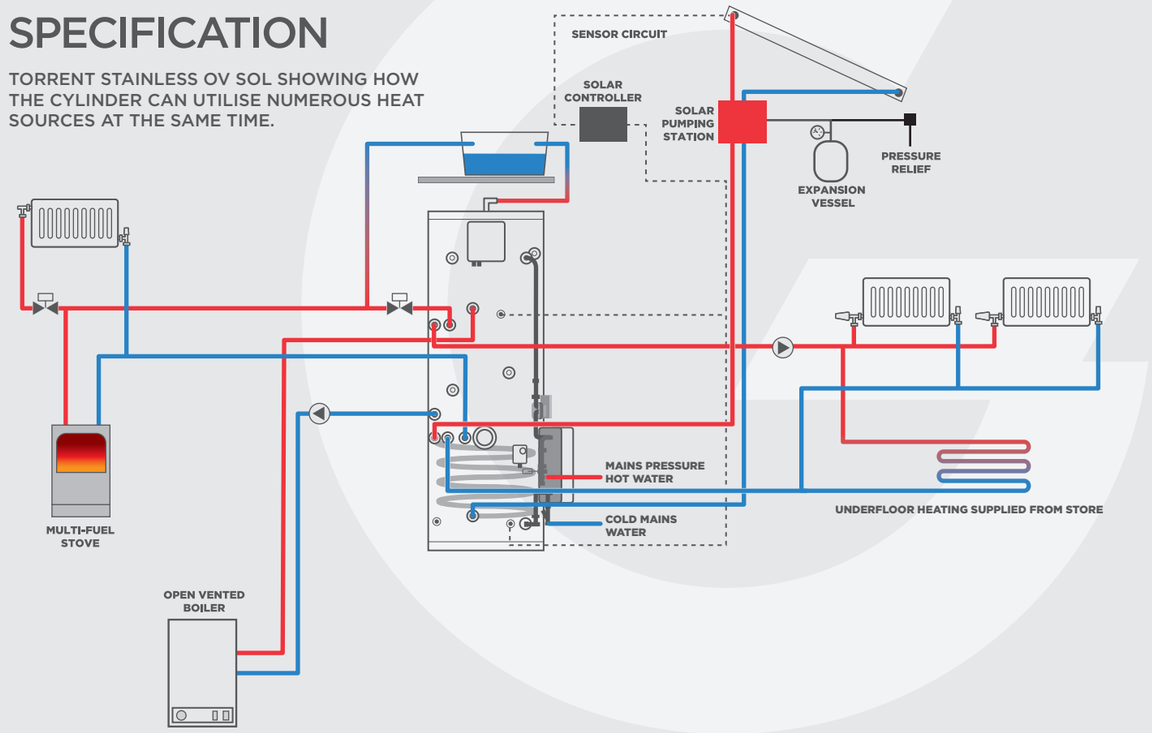
COMPONENTS

1 Open vent
2 Cold feed
3 Immersion heater
4 Solar coil flow
5 Solar coil return
6 Control thermostat
7 Control thermostat
8 Solar sensor pocket
9 Solar sensor pocket
10 Central heating flow
11 Central heating return
12 Drain
13 Plate heat exchanger flow
14 Plate heat exchanger return
15 Domestic hot water store sensor
16 Open vented flow
17 Open vented return
18 Solid fuel flow
19 Solid fuel return
20 Solid fuel overheat thermostat
21 Solid fuel control thermostat

5 YEAR WARRANTY | IMMERSION HEATER | GAS OR OIL BOILERS | SOLID FUEL | SOLAR THERMAL

TECHNICAL SPECIFICATION

TORRENT STAINLESS OV SOL SHOWING HOW THE CYLINDER CAN UTILISE NUMEROUS HEAT SOURCES AT THE SAME TIME.



TORRENT STAINLESS OV SOL

Description		TST150OVSOL	TST180OVSOL	TST210OVSOL	TST250OVSOL	TST350OVSOL
ErP rating		B	B	B	C	C
Heat loss	watts	47	55	62	74	79
Capacity	litres	148	178	208	248	345
Unit height	mm	1118	1306	1494	1744	1765
Unit diameter	mm	550	550	550	550	630
Dedicated solar volume	litres	64	74	84	97	130
Max. solar collector area[1]	m^2	2.22	2.54	2.91	3.88	4.64
Solar heat exch. surface area	m^2	0.78	0.78	1.27	1.27	1.27
Max. hot water flow rate	litres/minute	26.5	26.5	26.5	26.5	26.5
Maximum dwelling type	bath	1	1	1	2	2
	shower room	-	-	1	1	2
	bed	1-2	2-3	2-3	3-4	4-5

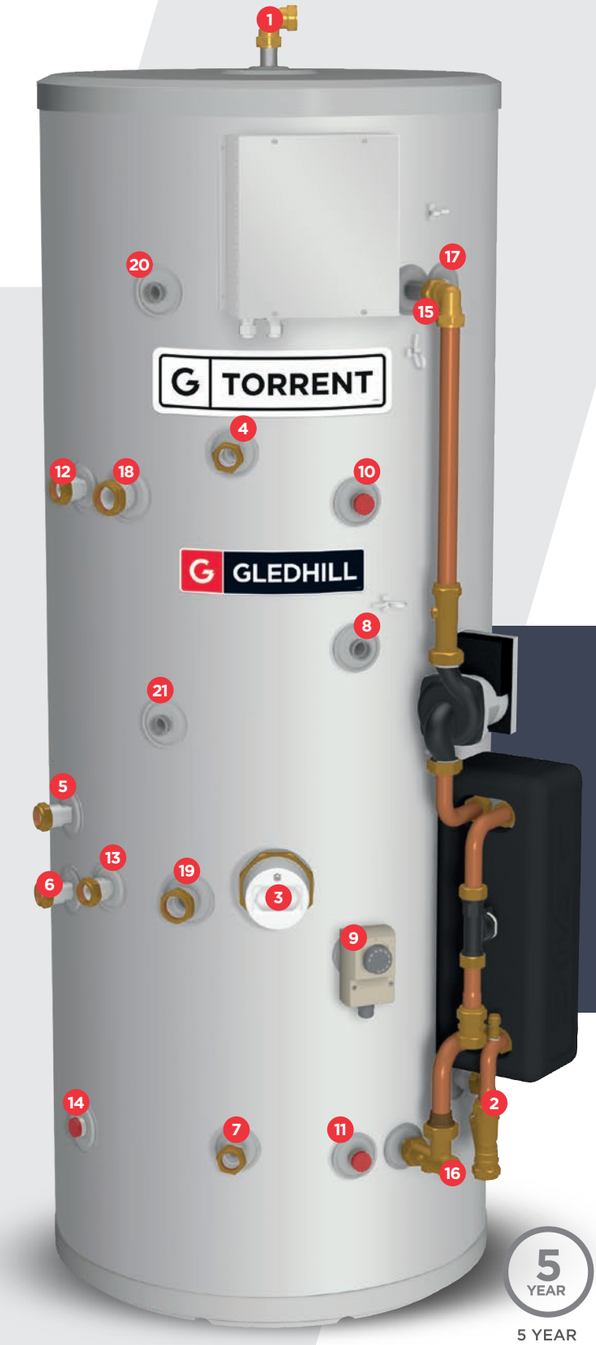
NOTES:

1 To comply with the Building Regulations ADL1 Domestic Heating Compliance Guide.

- Additional height for feed and expansion tank will need to be allowed if it is to be sited in the same cupboard.
- Vent pipes shown through the side of the feed and expansion tank may not be suitable for all systems. Installers must check suitability.
- The standard open vented store relies on a feed and expansion tank suitably sited above the highest radiator point to provide sufficient head for the system. As the domestic hot water is at mains pressure, the Torrent Stainless OV Sol itself can be sited anywhere in the property.
- The feed and expansion tank must be sized to take the water expansion of the whole system (ie. solid fuel boiler, cylinder, open flue boiler and auxiliary heating).
- The feed and expansion tank is not supplied as standard with the unit, but is available as an optional extra at the time of order.
- For solid fuel applications, copper feed and expansion tanks are available as an optional extra at the time of order.

TORRENT STAINLESS SP SOL

150 | 180 | 210 | 250 | 350 LITRES



KEY FEATURES

- Specifically designed for use with solar thermal panels
- Sealed primary boiler connections as standard
- 3kW immersion heater for emergency back-up
- Utilises solid fuel connections
- Provides mains pressure hot water
- Where there is no solar input, the coils can be connected to maximise heat input, reducing reheat time
- Blanking caps supplied

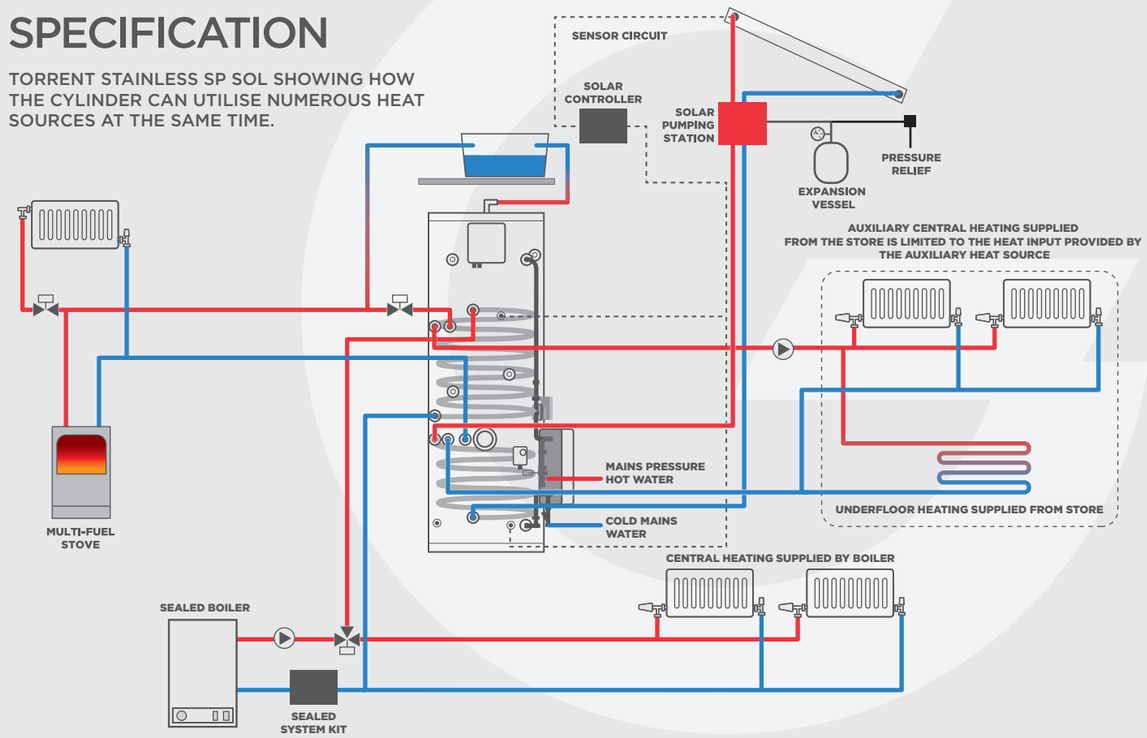
COMPONENTS

1 Open vent
2 Cold feed
3 Immersion heater
4 Primary coil flow
5 Primary coil return
6 Solar coil flow
7 Solar coil return
8 Control thermostat
9 Control thermostat
10 Solar sensor pocket
11 Solar sensor pocket
12 Central heating flow
13 Central heating return
14 Drain
15 Plate heat exchanger flow
16 Plate heat exchanger return
17 Domestic hot water store sensor
18 Solid fuel flow
19 Solid fuel return
20 Solid fuel overheat thermostat
21 Solid fuel control thermostat

5 YEAR WARRANTY | IMMERSION HEATER | GAS OR OIL BOILERS | SOLID FUEL | SOLAR THERMAL

TECHNICAL SPECIFICATION

TORRENT STAINLESS SP SOL SHOWING HOW THE CYLINDER CAN UTILISE NUMEROUS HEAT SOURCES AT THE SAME TIME.



TORRENT STAINLESS SP SOL

Description		TST150SPSOL	TST180SPSOL	TST210SPSOL	TST250SPSOL	TST350SPSOL
ErP rating		B	B	B	C	C
Heat loss	watts	47	55	62	74	79
Capacity	litres	148	178	208	248	345
Unit height	mm	1118	1306	1494	1744	1765
Unit diameter	mm	550	550	550	550	630
Dedicated solar volume	litres	64	74	84	97	130
Max. solar collector area[1]	m^2	2.22	2.54	2.91	3.88	4.64
Solar heat exch. surface area	m^2	0.78	0.78	1.27	1.27	1.27
Max. hot water flow rate	litres/minute	26.5	26.5	26.5	26.5	26.5
Maximum dwelling type	bath	1	1	1	2	2
	shower room	-	-	1	1	2
	bed	1-2	2-3	2-3	3-4	4-5

NOTES:

1 To comply with the Building Regulations ADL1 Domestic Heating Compliance Guide.

- Additional height for feed and expansion tank will need to be allowed if it is to be sited in the same cupboard.
- Vent pipes shown through the side of the feed and expansion tank may not be suitable for all systems. Installers must check suitability.
- The standard open vented store relies on a feed and expansion tank suitably sited above the highest radiator point to provide sufficient head for the system connected to the store. As the domestic hot water is at mains pressure, the Torrent Stainless SP Sol itself can be sited anywhere in the property.
- The Torrent Stainless SP Sol can be installed as a standard 'S' plan or 'Y' plan. The benefit of this is more flexibility on the location of the feed and expansion tank. However, when installed this way the central heating output will not gain heat from the solar thermal input to the thermal store.
- The feed and expansion tank must be sized to take the water expansion of the whole system (ie. solid fuel boiler, cylinder, open flue boiler and auxiliary heating).
- The feed and expansion tank is not supplied as standard with the unit, but is available as an optional extra at the time of order.
- For solid fuel applications, copper feed and expansion tanks are available as an optional extra at the time of order.

SPARES
Gledhill products are manufactured to the highest quality standards. In the unlikely event that you require a spare part, you can contact Gledhill Spare Parts, on:

01253 474412
or visit **www.gledhill-spares.net**

HERE TO HELP
If you're looking for technical assistance while you're on the job, give our technical team a call. With many years' experience, they're an invaluable resource to have at the end of the phone.

FOR TECHNICAL ADVICE PLEASE CALL
01253 474584

GLEDHILL

Gledhill Building Products Limited
Sycamore Estate,
Squires Gate,
Blackpool FY4 3RL

T: 01253 474550
E: enquiries@gledhill.net

WWW.GLEDHILL.NET

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THE MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING AND SERVICING OF DOMESTIC HEATING AND HOT WATER SYSTEMS

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GBP14.1 03.18

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