Gledhill
the cylinder specialist

Renewable Range

Cylinders providing a perfect partnership with renewable energy inputs

SUPPLIERS TO THE MERCHANT TRADE FOR OVER 40 YEARS




Renewable Range

Gledhill - The Cylinder Specialist

The Gledhill name is synonymous with a family of water heating and storage products that lead the field in terms of innovation and quality. We are respected for our world-leading range of primary stores and unvented cylinders, manufactured in both copper and Duplex stainless steel.

Where a property is to be fitted with alternative energy, be it solar thermal, heat pump or a solid fuel heat source then a new hot water cylinder will be required to make the alternative energy heat source work effectively. Don't believe anyone who tries to tell you otherwise!

Thinking of using renewable energy?

Whatever the alternative energy source, Gledhill Building Products have a cylinder to work with it.

The table opposite shows which product range has a model specifically designed for use with which renewable heat source.

Solar Power

We offer a wide variety of cylinders in a choice of materials that are specially designed to make the most of solar

Gledhill Product Range	Renewable Energy Input		
	Solar Power	Air Source Heat Pump	Solid Fuel
Copper SunSpeed	✔	✘	✘
StainlessLite Unvented	✔	✔	✘
StainlessLite Buffer	✘	✔	✘
Torrent ECO	✔	✔	✔
Combi Boiler Solar Pre-Heat Thermal Store	✔	✘	✘

thermal technology. These range from relatively simple vented cylinders for hot water only through to fully integrated thermal stores that allow the solar energy to be used for both hot water AND heating. For traditional copper vented cylinders please see the Sunspeed range which has a high performance solar coil optimised for use with solar energy

For stainless steel unvented, high performance, mains pressure hot water cylinders, the StainlessLite Solar or StainlessLite Slimline if space is restricted is perfectly suited for your requirements.

For what we believe is the ultimate alternative energy solution providing solar energy input to both hot water AND heating see the Torrent ECO Solar. This is a highly flexible thermal store option that provides high performance mains pressure hot water and which also comes with additional tappings for use with a wood burning stove.

Heat Pump

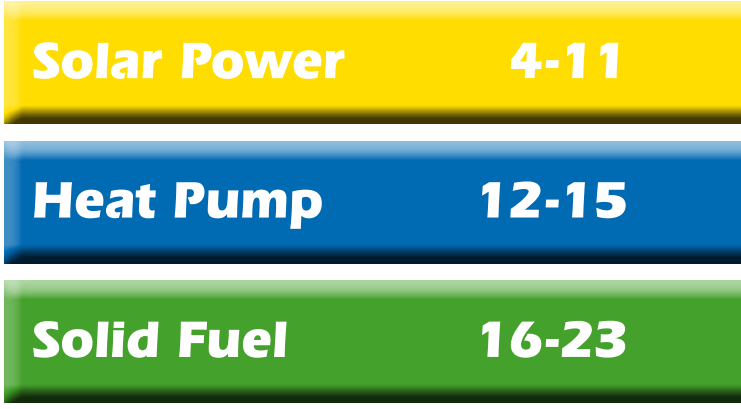
We offer a range of tried and tested cylinders and buffer stores for use with heat pumps.

StainlessLite Heat Pump is a stainless steel unvented cylinder specifically designed to have a larger heat exchanger for use with heat pumps. This will provide high performance mains pressure hot water using the heat pump as the primary heat source. An auxiliary immersion heater and thermostat pocket is provided to allow the installer to make provision to heat the water above 60 deg C to provide legionella protection.

The Torrent ECO HP is an open vented copper thermal store that will also provide high performance mains pressure hot water. Because it is a thermal store and the domestic hot water is heated via a heat exchanger (no stored domestic hot water) it has the added advantage of not needing any additional heating for legionella protection.

Solid Fuel

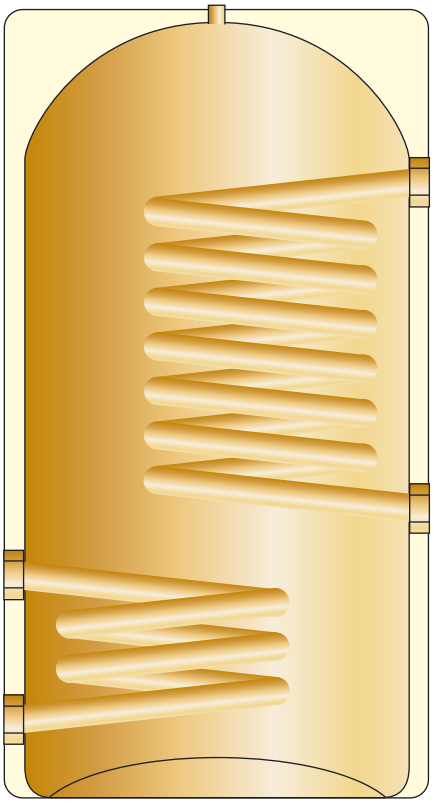
Designed to be the heart of an alternative energy system the Torrent range of thermal stores all come equipped with tappings for solid fuel / wood burning appliances.



Combi Pre-heat

Combi boiler solar preheat thermal store for use with solar energy

The Combi Pre-heat thermal store provides the perfect solution when you want to utilise solar energy for your hot water needs, in a property where a combi boiler is already installed.



Rather than the cold water being directly fed to the combi boiler, the water passes within the cylinder through a coil. The solar energy heats up the store of water, and as the cold water passes through the coil, heat is transferred from the store, and pre-heats the cold water before feeding to the boiler. This process completely eliminates any risk of legionella, as the water being delivered to the combi boiler is coming directly from the mains, and has not been stored.

The process of pre-heating the cold mains water means the boiler does not need to work as hard to reach the desired temperature, therefore energy bills are reduced.

The thermal store is available in two capacities in both vertical and horizontal patterns.

There are a wealth of benefits that come with thermal store technology including;

- Blending valve for anti-scald protection
- No requirement for discharge pipework
- No risk of legionella
- No annual safety check requirement
- No approvals needed
- Traditional vented safety
- Simple to install

Solar Pre-heat Technical Specification					
Description		**T110CP-V**	**T150CP-V**	**T110CP-H**	**T150CP-H**
Appliance height	mm	1115	1436	528	528
Appliance width	mm	528	528	1260	1590
Approx weight (empty)	kg	28	32	36	41
Approx weight (full)	kg	148	187	156	196
Total volume (nominal)	litres	120	155	120	155
Hot water flow rate		15	15	15	15

SunSpeed

Domestic hot water copper cylinder for use with solar energy

SunSpeed is a domestic hot water cylinder designed for use with solar panels, with cylinder capacities ranging from 120 to 332 litres. It is a copper cylinder with two heat exchangers, one for solar input and one for a boiler input.

The dedicated solar volumes range from 34% to 51% with the majority exceeding 40% enabling the best use of the solar panels. These dedicated solar volumes allow maximum suitable solar panels surface area from 2.7m^2 to 6.7m^2. The surface area of the solar heat exchanger coil is designed to exceed Building Regulations requirements.

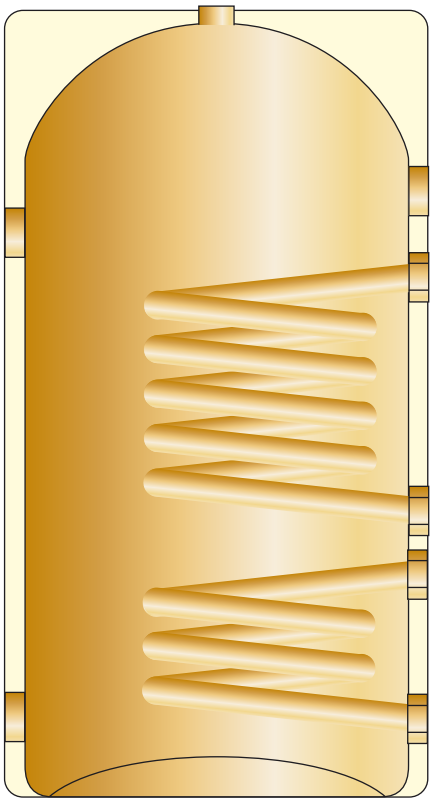
The boiler coil comes into play in the cooler months of the year as the solar input diminishes. A correctly sized cylinder will ensure enough hot water is available to the householder during these months as the dedicated solar volume will not be heated by the boiler. The boiler coil is sized appropriate to the cylinder and gives a recovery time of less than 26 minutes with sizes to meet all regulations.

The SunSpeed is an open vented cylinder which makes the location of the cylinder more flexible because the cylinder does not require a safety discharge pipe and makes it inherently safe.

The SunSpeed cylinders are insulated using 35mm HCFC free EnviroFoam to comply with Part L of the Building Regulations. This insulation incorporates Polyol which is derived from Rapeseed oil - a fully renewable resource, with an industry leading Global Warming Potential of 0.7. It also provides exceptionally low standing heat loss.

Please note other sizes other than the ones shown in the table below are available, please enquire with the local manufacturing depot.

Specification				
Gledhill Code	**Nominal overall capacity (litres)**	**Cylinder size (mm)**	**Dedicated solar volume (litres)**	**Surface area of solar coil (m^2)**
BSUN201	120	1050 x 400	41	0.29
BSUN202	138	1200 x 400	55	0.29
BSUN203	150	1300 x 400	61	0.29
BSUN204	163	1400 x 400	66	0.29
BSUN205	175	1500 x 400	78	0.43
BSUN207	150	1050 x 450	60	0.29
BSUN208	174	1200 x 450	77	0.36
BSUN209	190	1300 x 450	84	0.36
BSUN210	206	1400 x 450	92	0.43
BSUN211	222	1500 x 450	109	0.50
BSUN212	269	1800 x 450	132	0.65
BSUN213	332	1800 x 500	170	0.72



StainlessLite Solar Direct

Features and benefits

- Specifically designed for use with solar thermal panels
- Corrugated coil to maximise the heat transfer from the solar input
- 3kW incoloy 825 immersion heater for use as a secondary heat source when required
- 3kW incoloy immersion heater for emergency back-up
- Standard and slimline models available

Designed for use with

Need more technical information?

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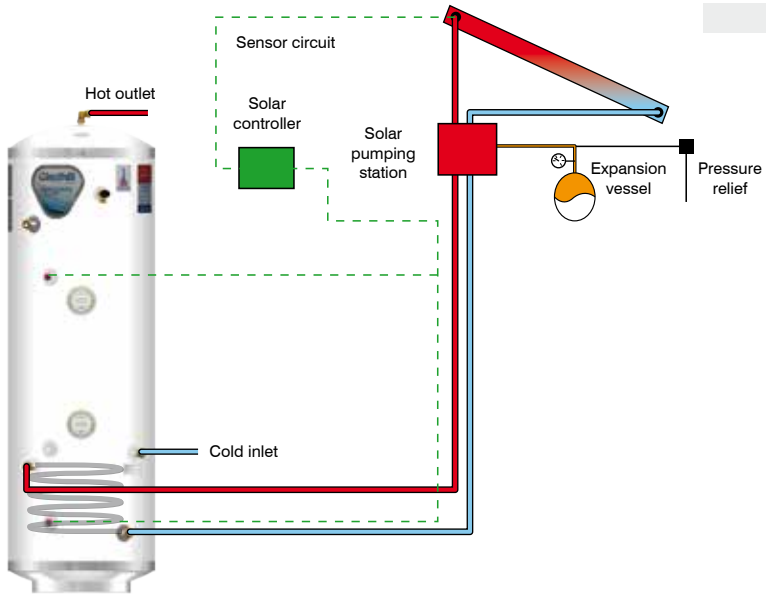

StainlessLite Solar Direct Technical Specifications

Description		SOL180d	SOL210d	SOL250d	SOL300d	SOL400d
Product Stock Code		ASL0070	ASL0075	ASL0080	ASL0085	ASL0086
Energy Efficiency Class		B	C	C	C	D
Heat Loss	watts	54	65	75	85	118
Capacity	litres	180	210	250	300	400
Height	mm	1305	1495	1745	1992	2030
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	26	30	34	39	49
Weight (full)	kg	206	240	284	339	449
Heat up time	min	n/a	n/a	n/a	n/a	n/a
Dedicated Solar Volume	litres	60	70	84	100	150
Number of Immersions		2	2	2	2	2
Secondary Return		No	Yes	Yes	Yes	Yes

StainlessLite Solar Slimline Direct Technical Specifications

Description		SOL 180d-SL	SOL 210d-SL
Product Stock Code		ASL475D180SOL	ASL475D210SOL
Energy Efficiency Class		C	C
Heat Loss	watts	76	84
Capacity	litres	180	210
Height	mm	1790	1970
Diameter	mm	475	475
Weight (empty)	kg	32	36
Weight (full)	kg	212	246
Heat up time	min	n/a	n/a
Dedicated solar volume	litres	60	70
Number of Immersions		2	2
Secondary Return		No	Yes

Notes:

1 The dedicated solar volume is the amount of water that cannot be heated by any other heat source in line with ADL1 Compliance
2 For further ErP information, please refer to the installation manual at www.gledhill.net

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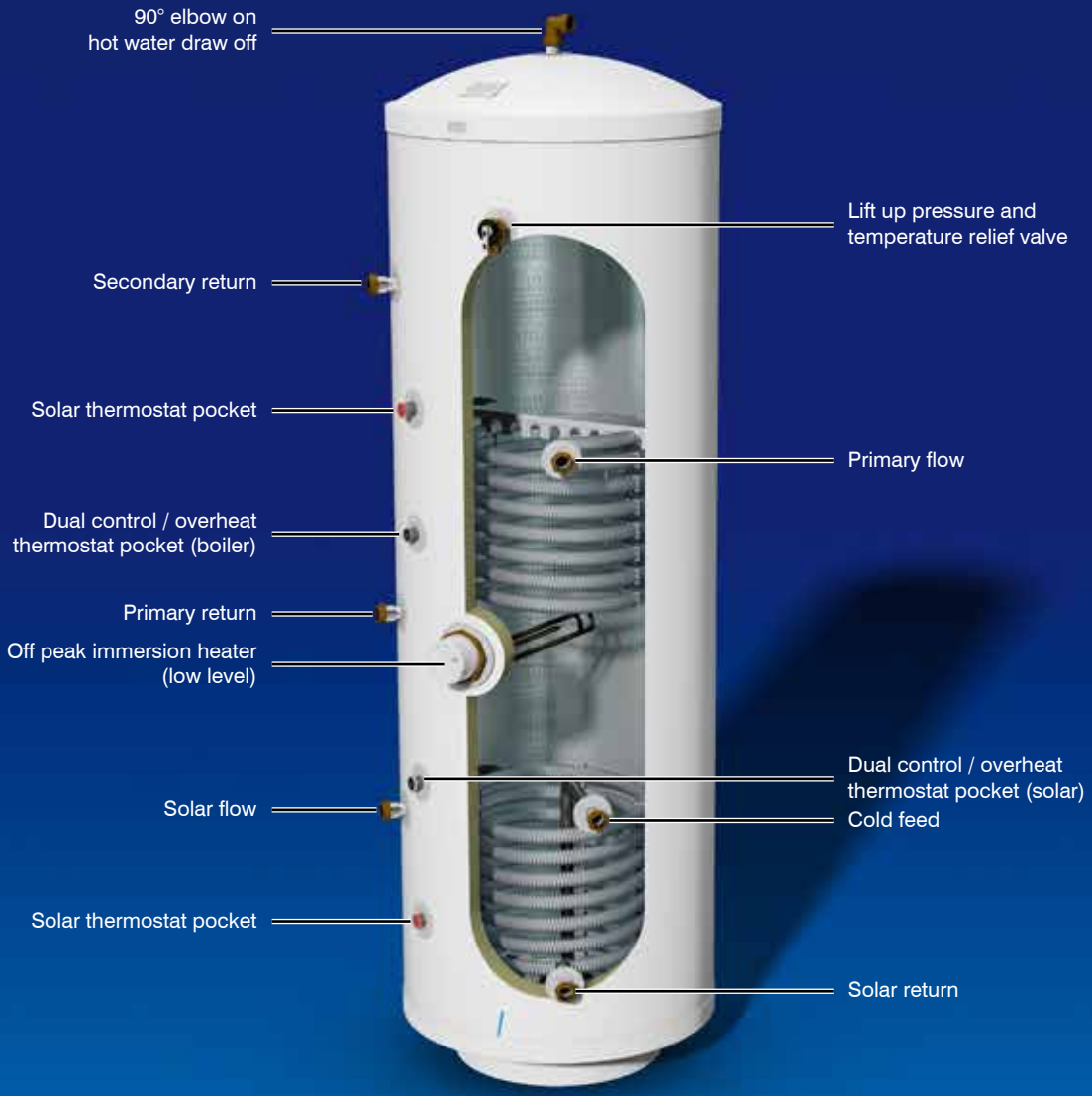
StainlessLite Solar Indirect



Features and benefits

- Specifically designed for use with solar thermal panels in addition to gas or oil boilers
- High efficiency corrugated coil maximises heat transfer from the solar input
- 3kW incoloy immersion heater for emergency back-up
- Standard and slimline models available

Designed for use with

Need more technical information?

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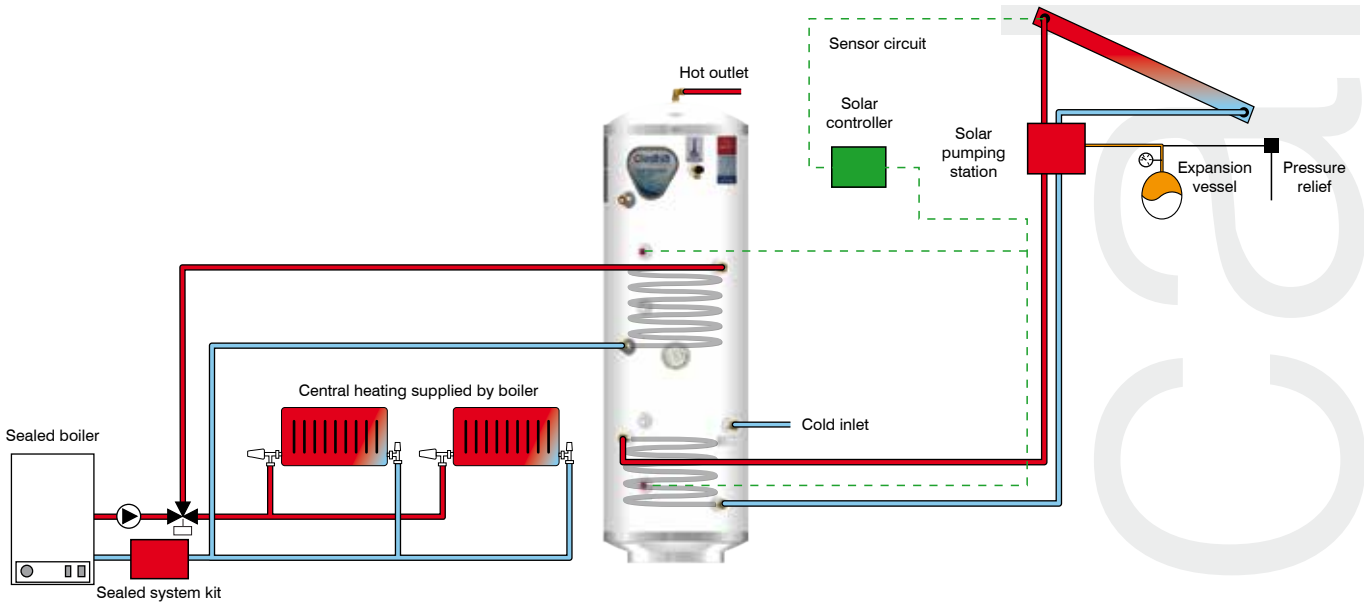

StainlessLite Solar Indirect Technical Specifications

Description		SOL180i	SOL210i	SOL250i	SOL300i	SOL400i
Product Stock Code		ASL0090	ASL0095	ASL0100	ASL0105	ASL0110
Energy Efficiency Class		B	C	C	C	D
Heat Loss	watts	54	65	75	85	118
Capacity	litres	180	210	250	300	400
Height	mm	1305	1495	1745	1992	2030
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	30	35	40	46	59
Weight (full)	kg	210	245	290	346	459
Heat up time	min	28	35	38	41	45
Dedicated solar volume	litres	96	101	107	125	165
Number of Immersions		1	1	1	1	1
Secondary Return		No	Yes	Yes	Yes	Yes

StainlessLite Solar Slimline Indirect Technical Specifications

Description		SOL180i-SL	SOL210i-SL
Product Stock Code		ASL475IND180SOL	ASL475IND210SOL
Energy Efficiency Class		C	C
Heat Loss	watts	76	84
Capacity	litres	180	210
Height	mm	1790	1970
Diameter	mm	475	475
Weight (empty)	kg	33	37
Weight (full)	kg	213	247
Heat up time	min	28	35
Dedicated solar volume	litres	60	70
Number of Immersions		1	1
Secondary Return		No	Yes

Notes:

1 The dedicated solar volume is the amount of water that cannot be heated by any other heat source in line with ADL1 Compliance
2 For further ErP information, please refer to the installation manual at www.gledhill.net

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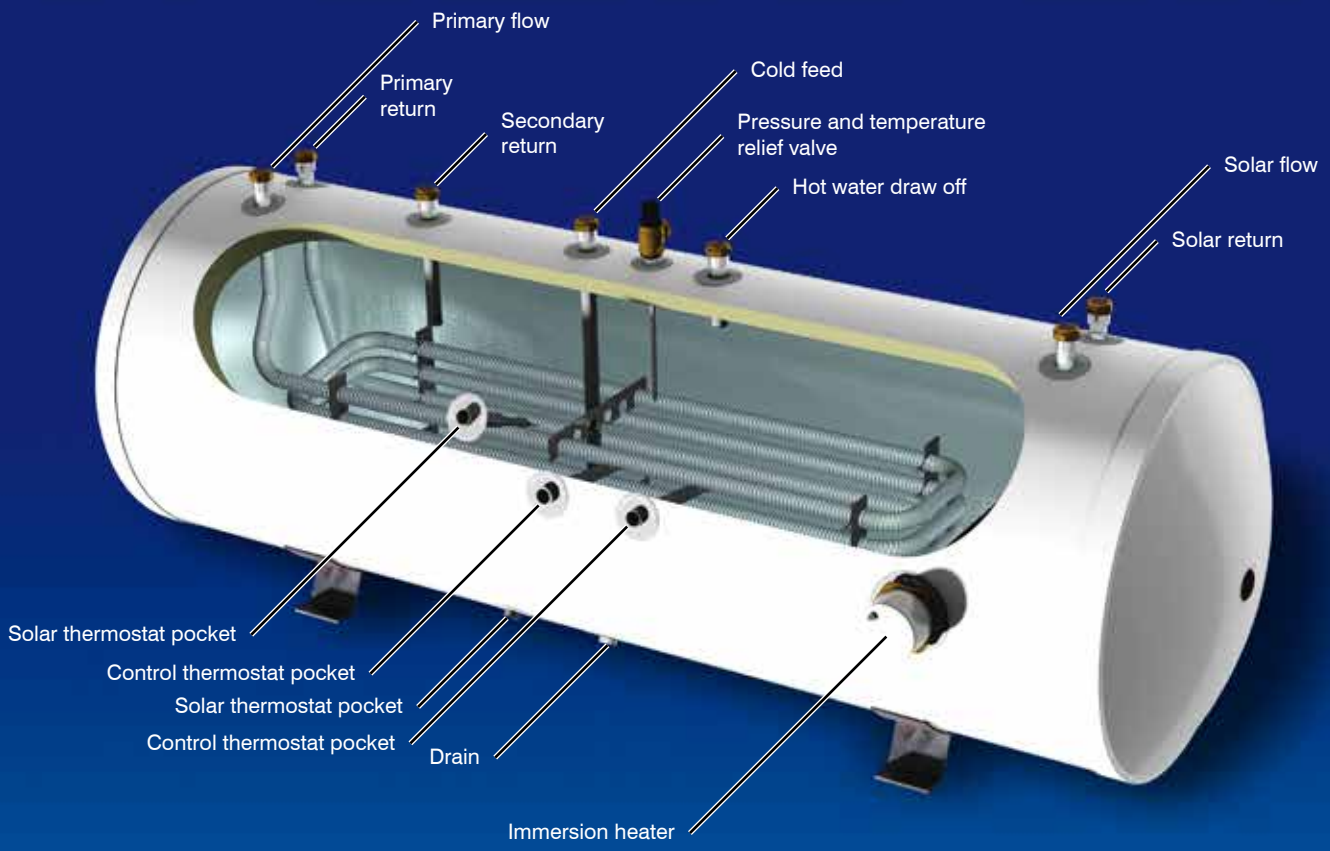
StainlessLite Horizontal Solar



Features and benefits

- UK's only independently approved domestic horizontal unvented cylinder
- Provides the ideal solution for height restricted installation spaces
- Specifically designed for use with solar thermal panels in addition to gas or oil boilers
- 3kW incoloy immersion heater for emergency back-up

Designed for use with

Need more technical information?

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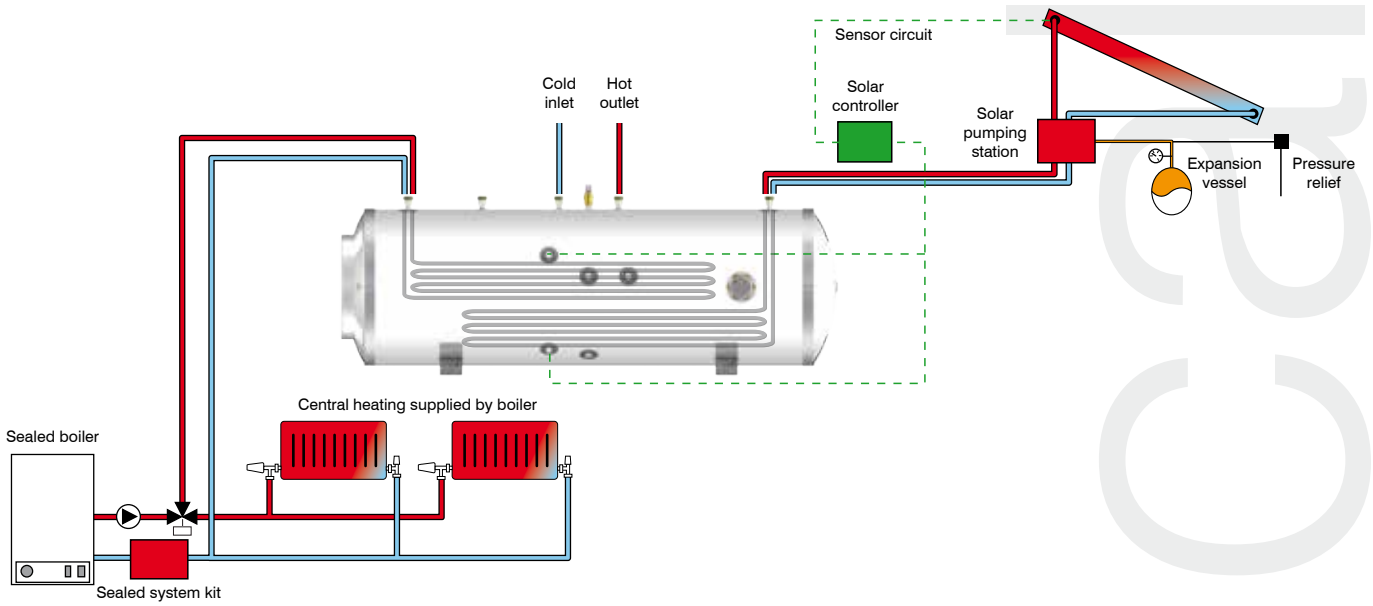

StainlessLite Horizontal Solar Technical Specifications

Description		IND180 SOL	IND210 SOL	IND250 SOL	IND300 SOL
Product Stock Code		ASL0090H	ASL0095H	ASL0100H	ASL0105H
Energy Efficiency Class		C	C	C	C
Heat Loss	watts	78	82	86	91
Capacity	litres	174	208	244	294
Overall Height	mm	585	585	585	585
Overall Width	mm	1310	1495	1745	1992
Diameter	mm	550	550	550	550
Weight (empty)	kg	34	34	35	46
Weight (full)	kg	205	242	279	340
Heat up time	min	21	24	38	26
Dedicated solar volume	litres	64	85	112	145
Number of Immersions		1	1	1	1
Secondary Return		Yes	Yes	Yes	Yes

Notes:

1 The dedicated solar volume is the amount of water that cannot be heated by any other heat source in line with ADL1 Compliance
2 For further ErP information, please refer to the installation manual at www.gledhill.net

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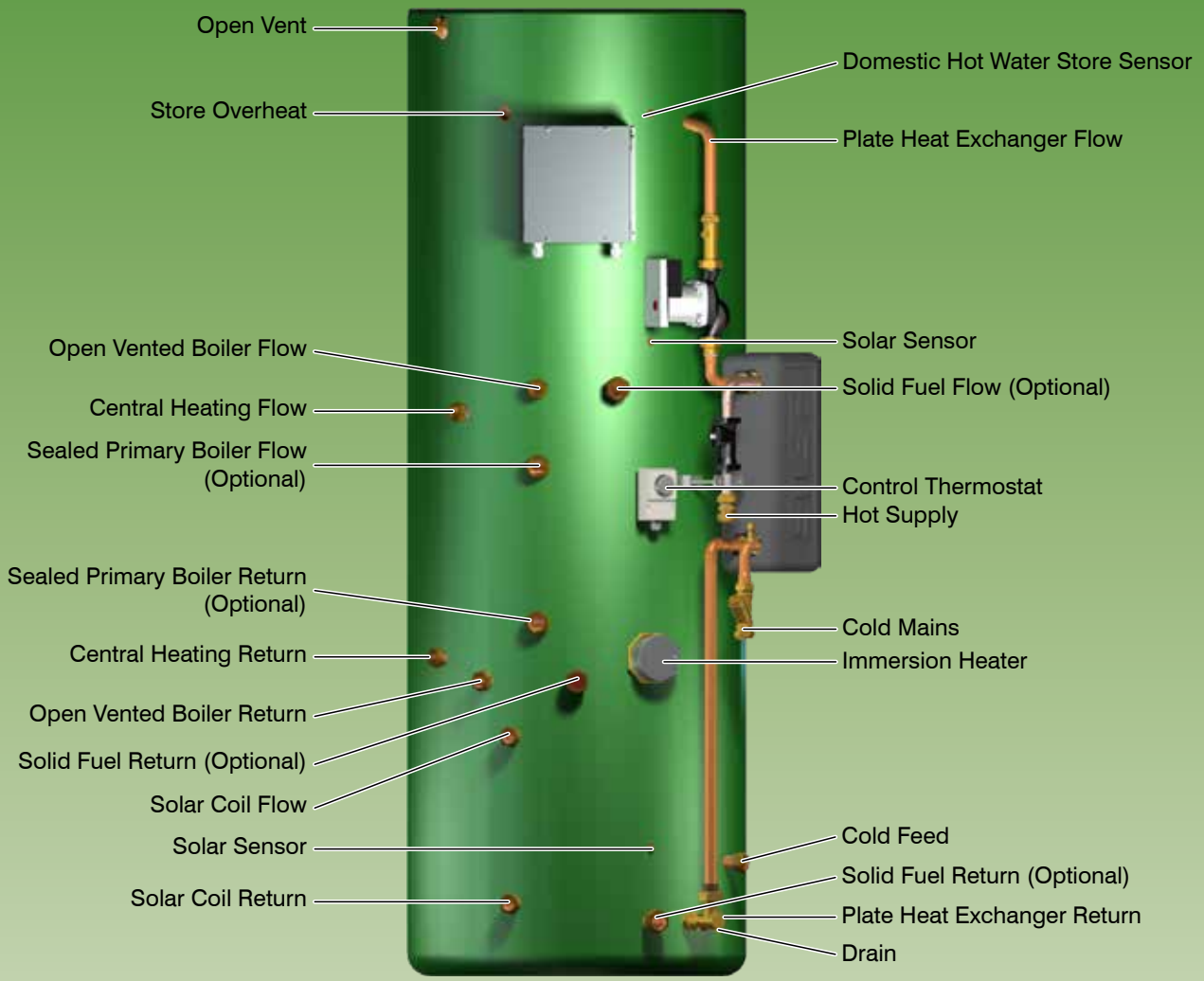
Torrent ECO SOL



Features and benefits

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

Tappings shown above can be removed or optional extras added at the time of order

Designed for use with

Need more technical information?

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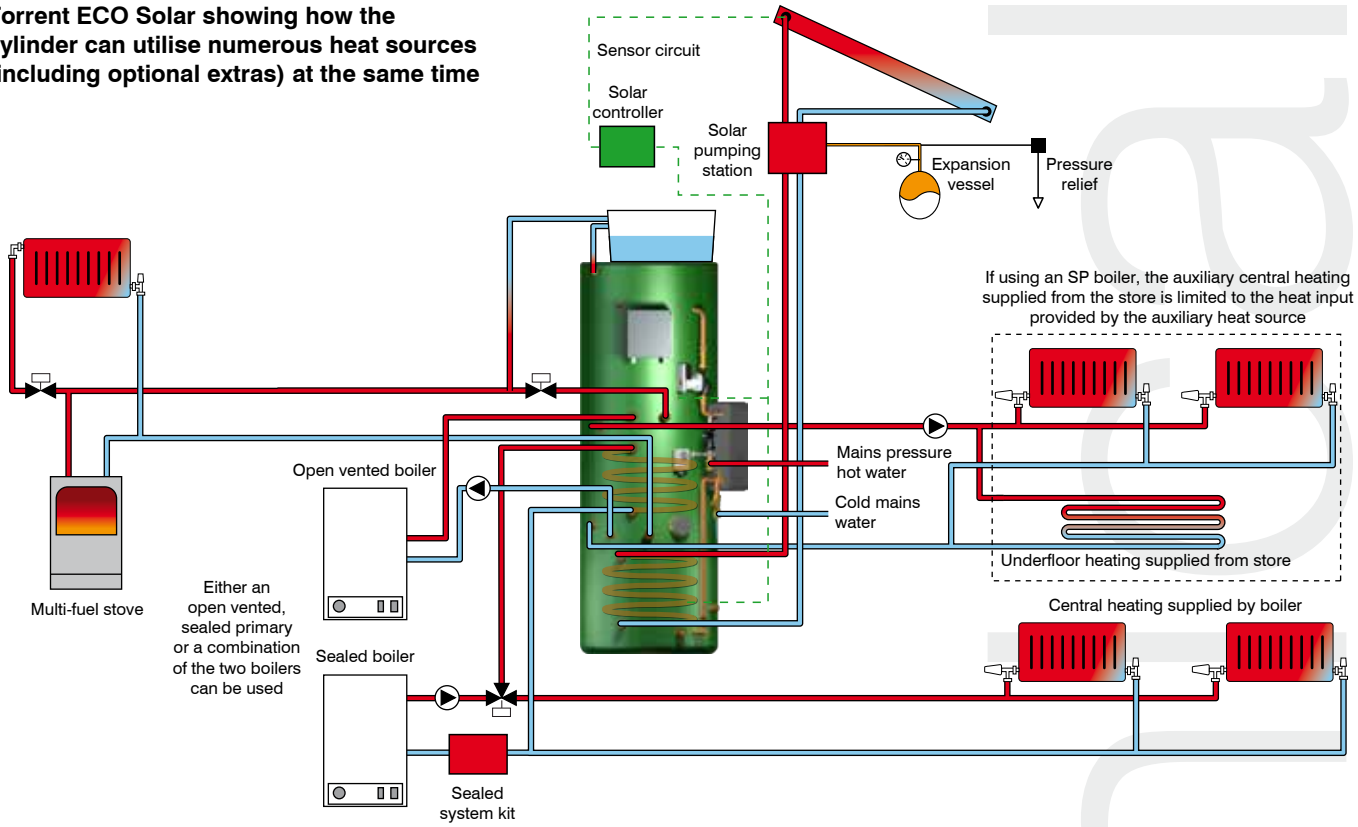
Torrent ECO Solar showing how the cylinder can utilise numerous heat sources (including optional extras) at the same time



Torrent ECO SOL Technical Specifications

Description		TEC210-SOL	TEC250-SOL	TEC350-SOL	TEC450-SOL
Energy efficiency class		C	D	D	D
Heat loss	watts	84	93	114	134
Domestic hot water volume	litres	210	250	350	450
Unit height	mm	1414	1654	1874	1764
Unit diameter	mm	585	585	636	738
Dedicated solar volume [2]	litres	62	73	101	130
Max. solar collector area [1]	m^2	2.47	2.91	4.03	5.19
Solar heat exch. surface area [1]	m^2	0.27	0.34	0.40	0.54
Max. hot water flow rate	litres/minute	35	35	35	35
Maximum dwelling type	Bath	1	1	2	3
	Shower room	1	2	2	2
	Bed	2 - 4	2 - 4	3 - 5	4 - 6

Notes:

1 To comply with the Building Regulations ADL1 Domestic Heating Compliance Guide.
2 This can be adjusted at the time of specification.

- Please note the diagrams shown include optional extra components.
- 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 an feed and expansion (feed & 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 ECO Solar itself can be sited anywhere in the property.
- Provision is also made within the design for a sealed heating/boiler circuit with the heat exchanger provided which would then operate as a conventional cylinder. Although this would reduce the potential for utilising the solar energy in the HEATING CIRCUIT, it would mean that both the Torrent and the feed and expansion tank can then be sited anywhere in the property, as the feed and expansion is only being used to fill the store with water.
- 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.

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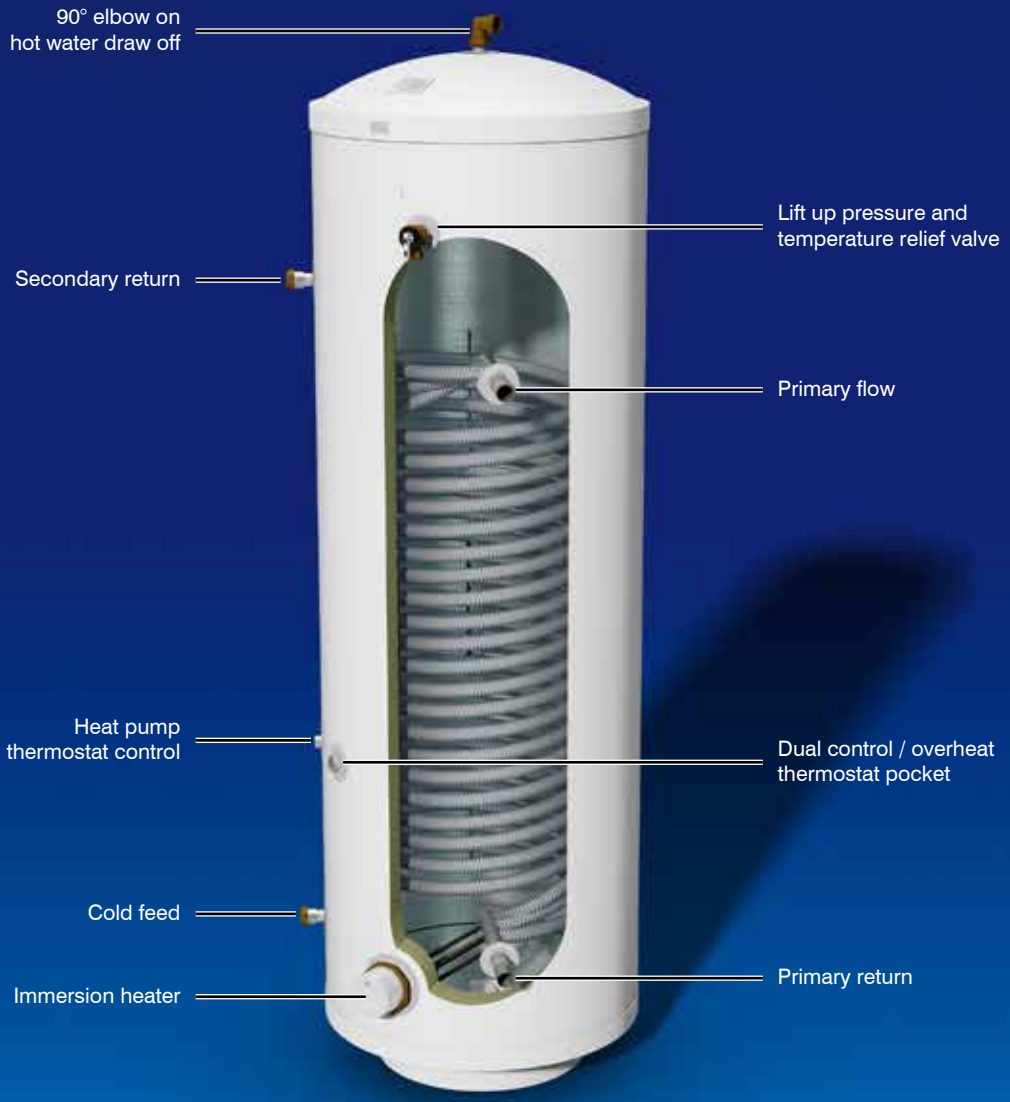
StainlessLite Heat Pump



Features and benefits

- Designed for use with either air source or ground source heat pumps
- High efficiency corrugated coil maximises heat transfer to the cylinder of water
- 3kW incoloy immersion heater for emergency back-up
- Standard and slimline models available

Designed for use with

Need more technical information?

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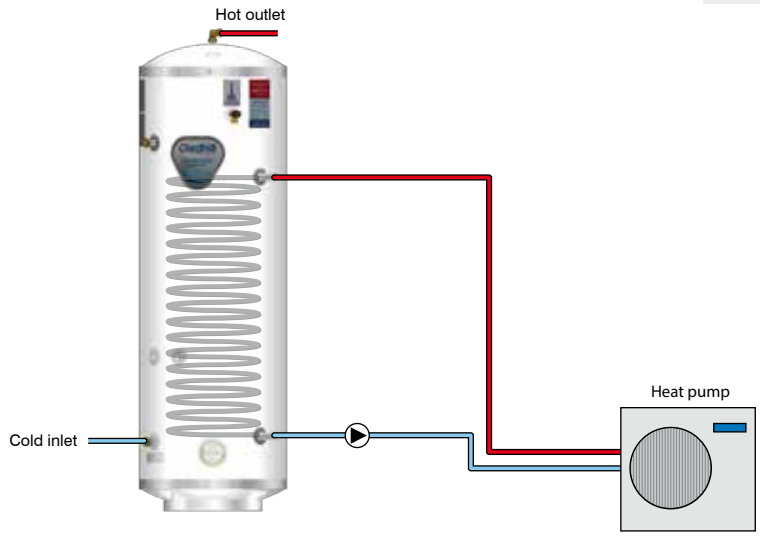

StainlessLite Heat Pump Technical Specifications

Description		HP180IND	HP210IND	HP250IND	HP300IND	HP400IND
Product Stock Code		ASL180HP2.5SQM	ASL210HP3SQM	ASL250HP3SQM	ASL300HP3SQM	ASL400HP4SQM
Energy Efficiency Class		B	C	C	C	D
Heat Loss	watts	54	65	75	85	118
Capacity	litres	180	210	250	300	400
Height	mm	1305	1495	1745	1992	2030
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	33	38	43	58	62
Weight (full)	kg	213	248	293	358	462
Surface Area of HP Coil	m^2	2.5	3	3	3	4
Number of Immersions		1	1	1	1	1
Secondary Return		No	Yes	Yes	Yes	Yes

StainlessLite Slimline Heat Pump Technical Specifications

Description		HP180SL	HP210SL
Product Stock Code		ASL180HPSL	ASL210HPSL
Energy Efficiency Class		C	C
Heat Loss	watts	76	84
Capacity	litres	180	210
Height	mm	1790	1970
Diameter	mm	475	475
Weight (empty)	kg	33	37
Weight (full)	kg	213	247
Surface Area of HP Coil	m^2	3	3
Number of Immersions		1	1
Secondary Return		No	Yes

Notes:

1 For further ErP information, please refer to the installation manual at www.gledhill.net

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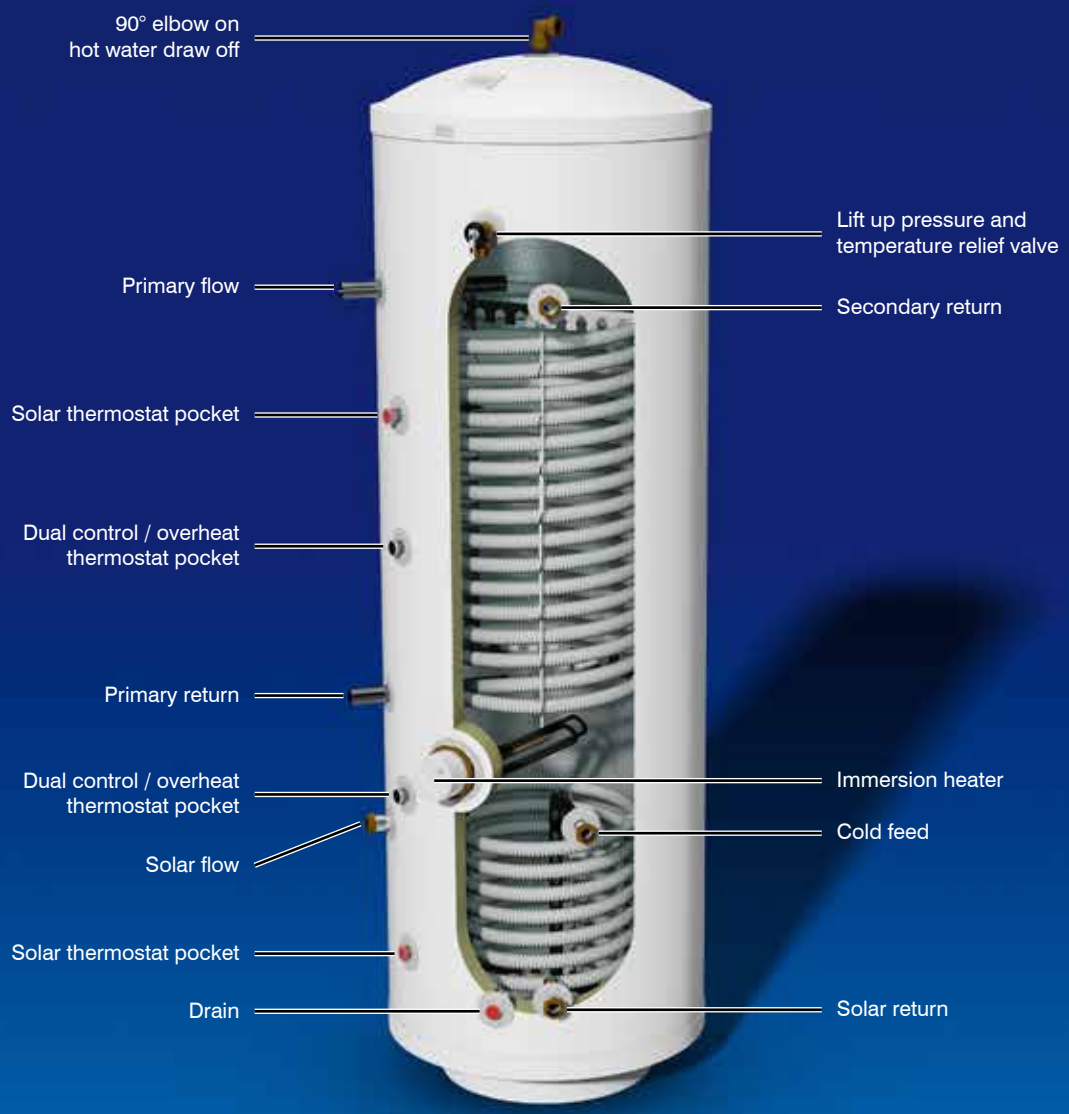
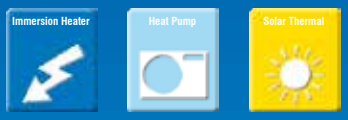
StainlessLite Heat Pump Solar



Features and benefits

- Designed for use with either air source or ground source heat pumps in addition to solar thermal panels
- High efficiency corrugated coil maximises heat transfer to the cylinder of water
- 3kW incoloy immersion heater for emergency back-up

Designed for use with



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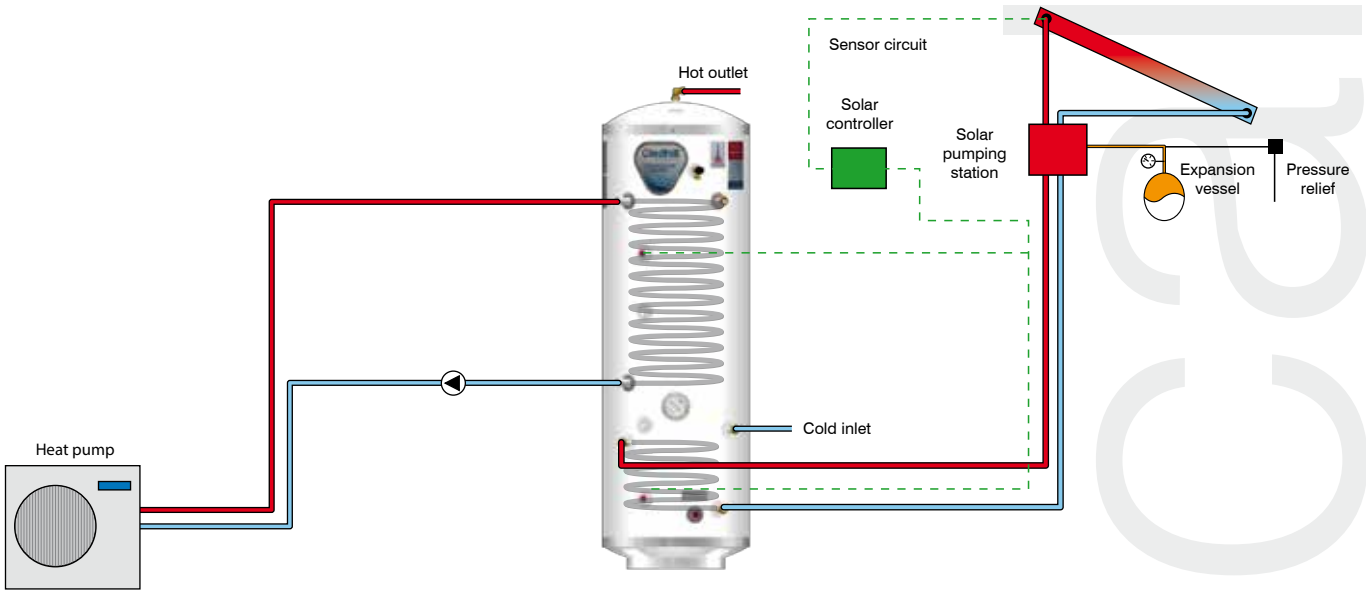

StainlessLite Heat Pump Solar Technical Specifications

Description		HP180INDSOL	HP210INDSOL	HP250INDSOL	HP300INDSOL	HP400INDSOL
Product Stock Code		ASL180HP	ASL210HP	ASL250HP	ASL300HP	ASL400HP
Energy Efficiency Class		B	C	C	C	D
Heat Loss	watts	54	65	75	85	118
Capacity	litres	180	210	250	300	400
Height	mm	1305	1495	1745	1992	2030
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	33	38	43	49	61
Weight (full)	kg	213	248	293	349	461
Surface Area of HP Coil	m^2	1.36	1.56	1.94	2.04	2.91
Dedicated solar volume	litres	65	75	90	105	130
Number of Immersions		1	1	1	1	1
Secondary Return		No	Yes	Yes	Yes	Yes

Notes:

1 For further ErP information, please refer to the installation manual at www.gledhill.net

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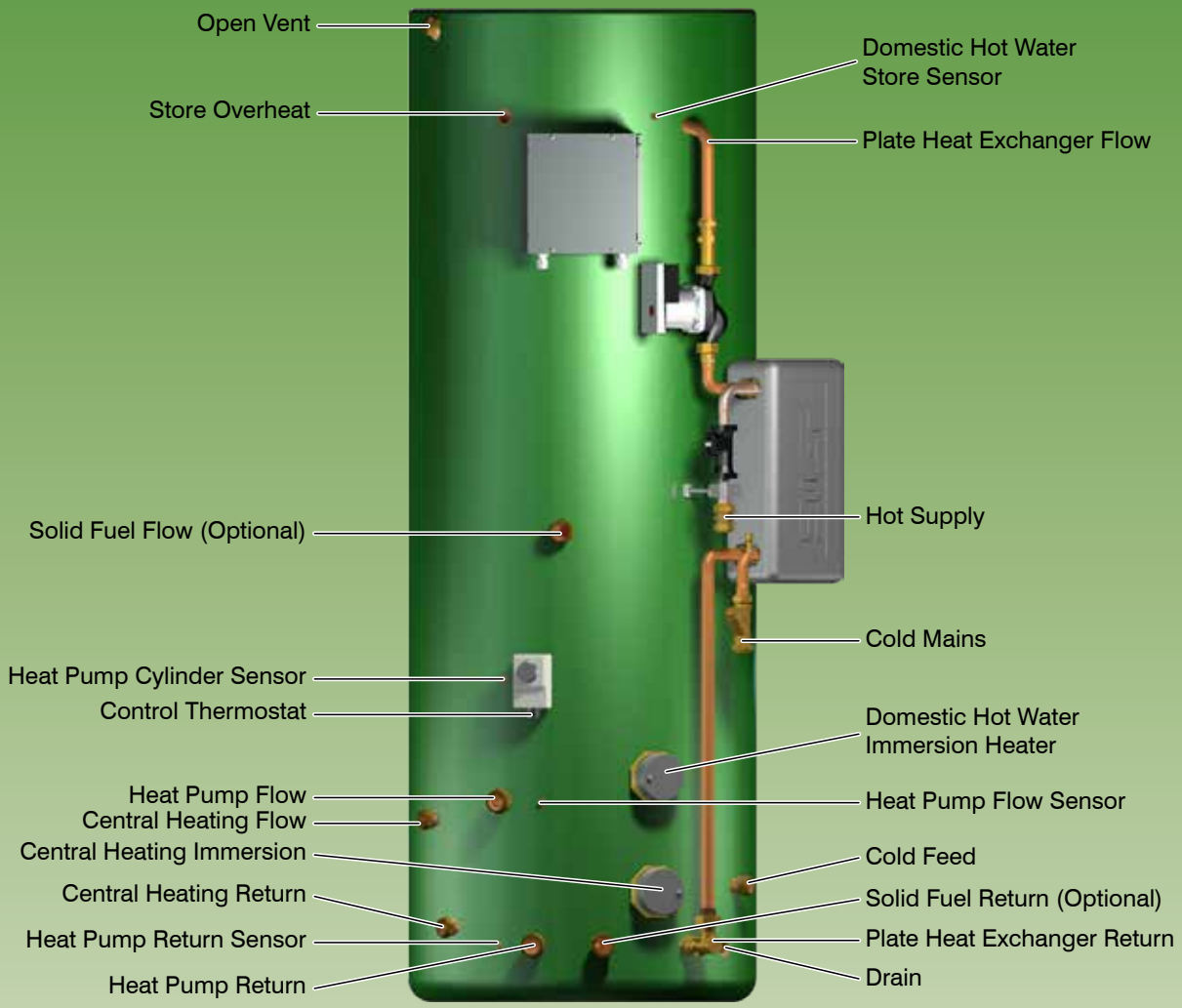
Torrent ECO HP



Features and benefits

- Specifically designed for use with either air source or ground source heat pumps
- Heating provided directly from the store
- Optional solid fuel connections
- 3kW immersion heaters for boost and emergency back-up for both heating and hot water
- Provides mains pressure hot water

Tappings shown above can be removed or optional extras added at the time of order

Designed for use with

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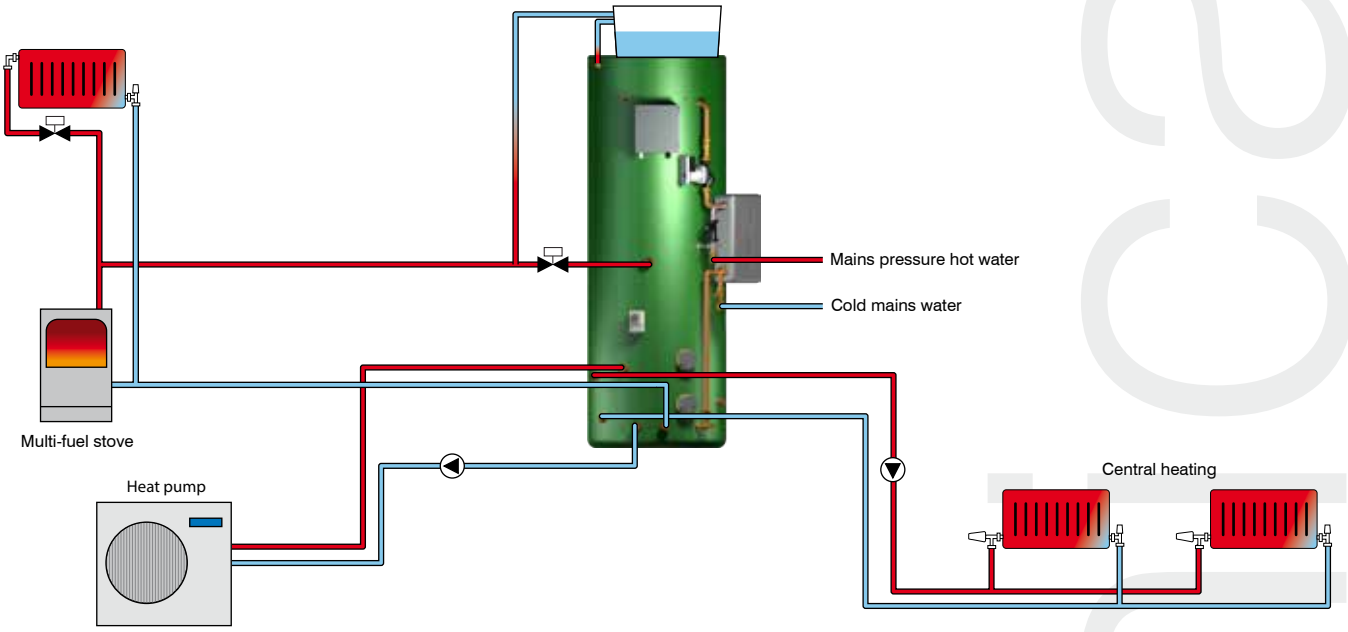
Torrent ECO HP showing how the cylinder can utilise numerous heat sources (including optional extras) at the same time



Torrent ECO HP Technical Specifications

Description		TEC170-HP	TEC210-HP	TEC250-HP	TEC350-HP	TEC450-HP
Energy efficiency class		C	C	D	D	D
Heat loss	watts	74	84	93	114	134
Domestic hot water volume	litres	170	210	250	350	450
Unit height	mm	1449	1414	1654	1874	1764
Unit diameter	mm	535	585	585	636	738
Max. hot water flow rate	litres/minute	15	15	15	15	15
Maximum dwelling type	Bath	1	1	2	2	3
	Shower room	1	2	1	2	2
	Bed	2 - 3	2 - 3	3 - 4	3 - 4	4 - 5

Notes:

- Please note the diagrams shown include optional extra components.
- The suggested model sizes in the selection chart are based on a store temperature of 75°C. If the intention is that the heat pump will be used to provide the majority of the hot water with minimum boost from another heat source then consideration should be given to choosing a larger model of Torrent ECO HP appliance. See the Design Installation and Servicing Instructions for equivalent volumes at different charge temperatures.
- If the immersion heater is to be used as the hot water boost a suitable control system should be installed to ensure that the heat pump has fully charged the appliance before the boost immersion heater is allowed to operate. This will ensure the most efficient and cost effective use of the system.
- Additional height for feed and expansion tank will need to be allowed if it is to be sited in the same cupboard.
- 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.

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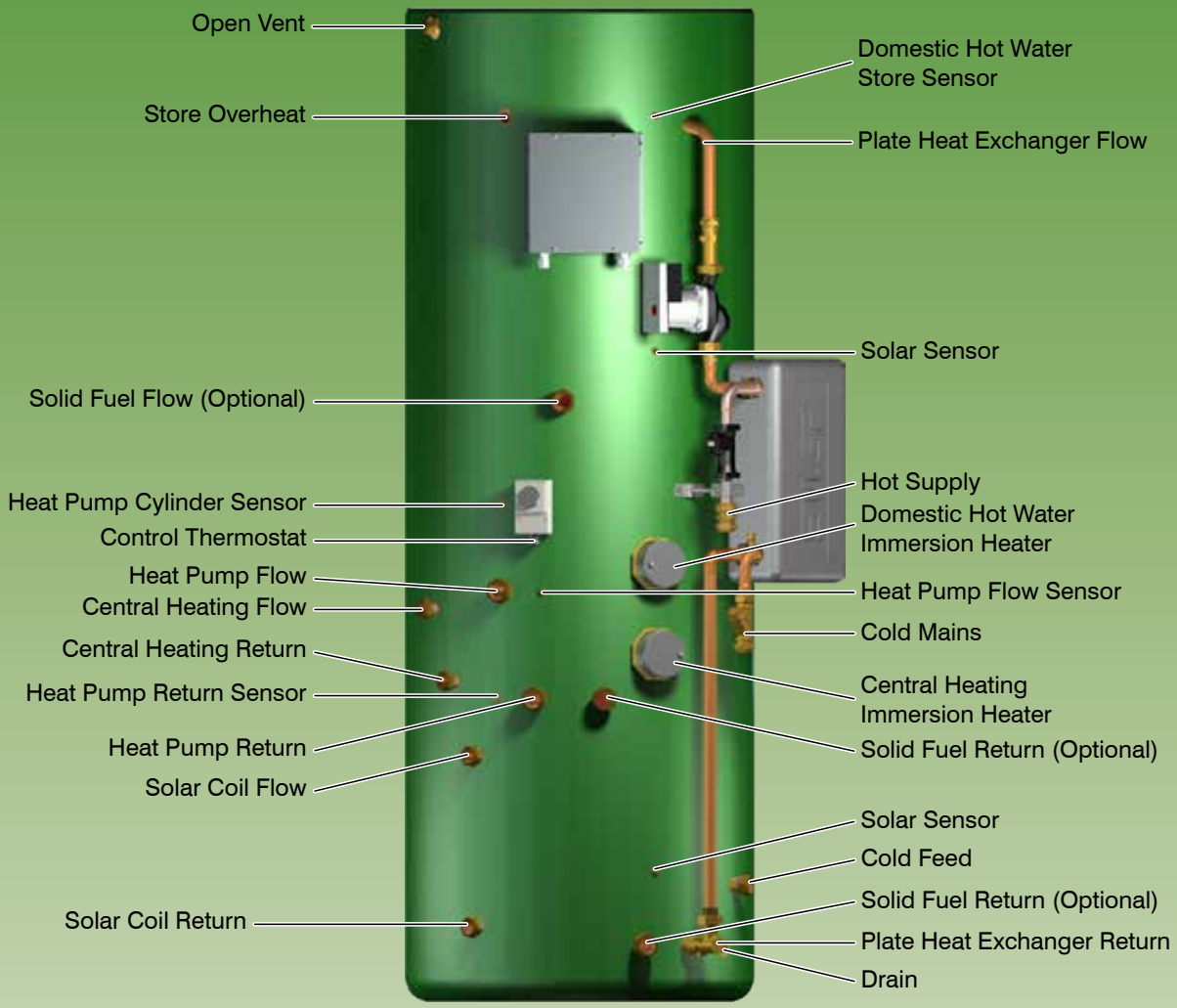
Torrent ECO HP SOL

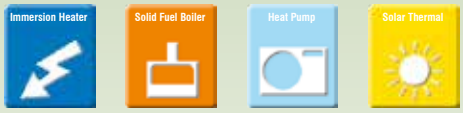


Features and benefits

- Specifically designed to combine solar thermal and heat pump technology
- Heating provided directly from the store
- Optional solid fuel connections to provide the ultimate alternative energy cylinder
- 3kW immersion heaters for boost and emergency back-up for both heating and hot water
- Provides mains pressure hot water

Tappings shown above can be removed or optional extras added at the time of order

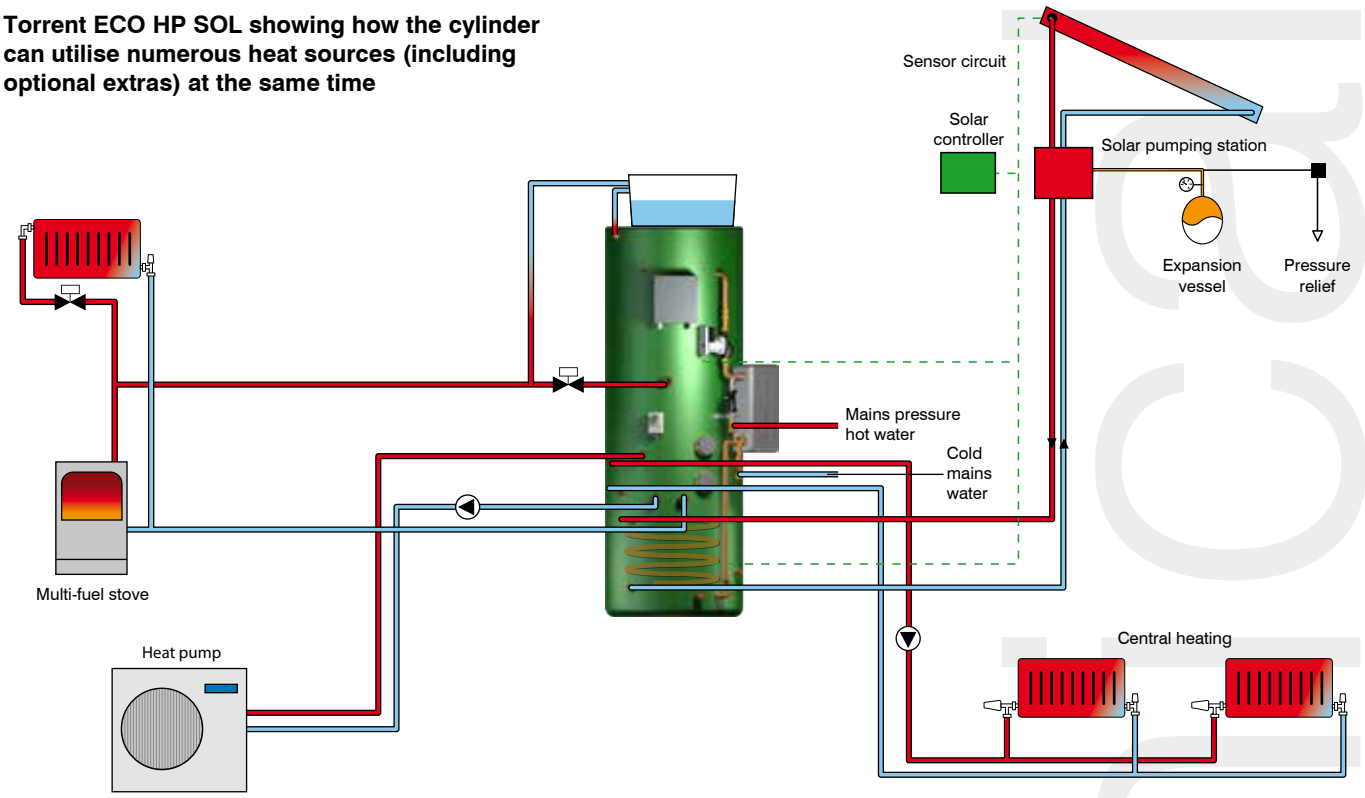
Designed for use with



Need more technical information?

SCAN HERE

Torrent ECO HP SOL showing how the cylinder can utilise numerous heat sources (including optional extras) at the same time



Torrent ECO HP SOL Technical Specifications

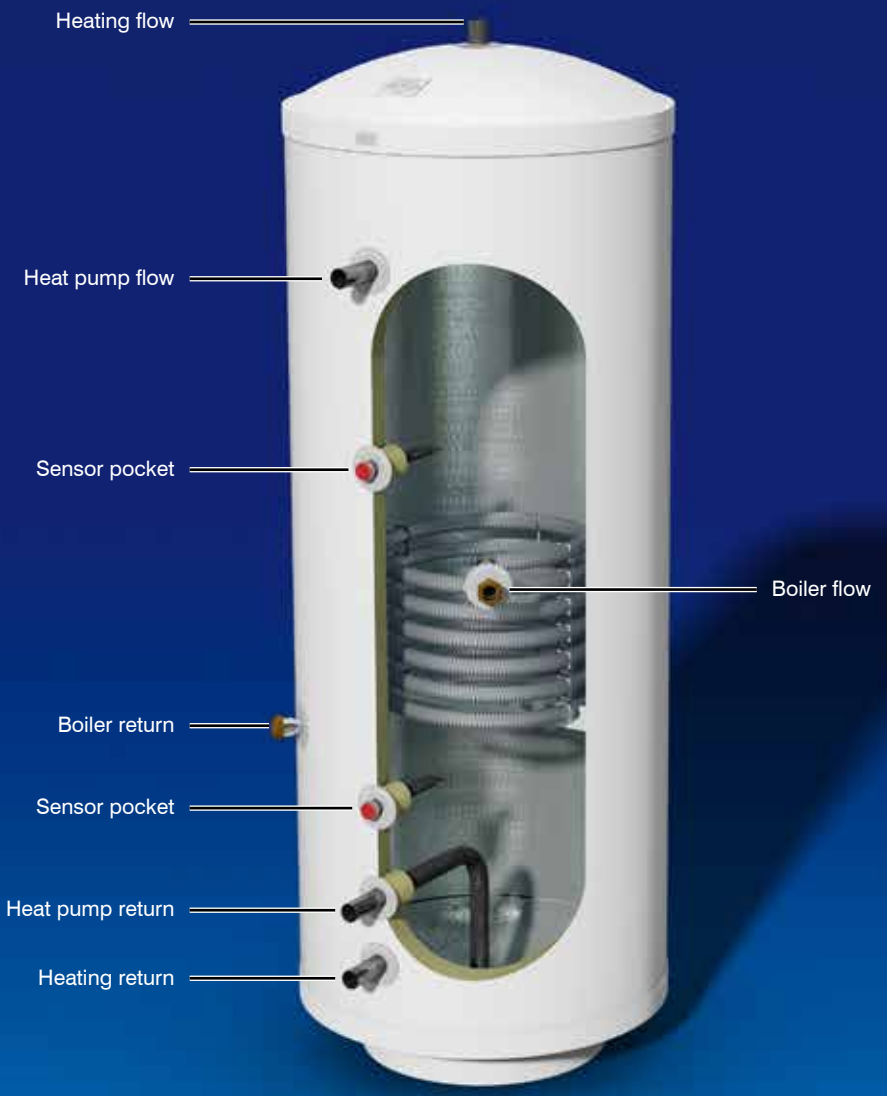
Description		TEC210-HPSOL	TEC250-HPSOL	TEC350-HPSOL	TEC450-HPSOL
Energy efficiency class		C	D	D	D
Heat loss	watts	84	93	114	134
Domestic hot water volume	litres	210	250	350	450
Unit height	mm	1414	1654	1874	1764
Unit diameter	mm	585	585	636	738
Dedicated solar volume [2]	litres	62	73	101	130
Max. solar collector area [1]	m^2	2.47	2.91	4.03	5.19
Solar heat exch. surface area [1]	m^2	0.27	0.34	0.40	0.54
Max. hot water flow rate	litres/minute	15	15	15	15
Maximum dwelling type	Bath	1	1	2	2
	Shower room	1	2	1	2
	Bed	2 - 3	2 - 3	3 - 4	3 - 4

Notes:

1 To comply with the Building Regulations ADL1 Domestic Heating Compliance Guide
2 This can be adjusted at the time of specification.

- Please note the diagrams shown include optional extra components.
- The suggested model sizes in the selection chart are based on a store temperature of 75°C. If the intention is that the heat pump will be used to provide the majority of the hot water with minimum boost from another heat source then consideration should be given to choosing a larger model of Torrent ECO HP SOL appliance. See table 1b in the Design Installation and Servicing Instructions for equivalent volumes at different charge temperatures.
- If the immersion heater is to be used as the hot water boost a suitable control system should be installed to ensure that the heat pump has fully charged the appliance before the boost immersion heater is allowed to operate. This will ensure the most efficient and cost effective use of the system.
- Additional height for feed and expansion tank will need to be allowed if it is to be sited in the same cupboard.
- 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.

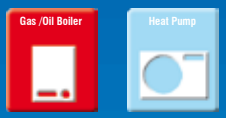
StainlessLite Buffer Store



Features and benefits

- Open vented Duplex stainless steel cylinder in direct or indirect models
- Buffer stores increase the overall volume of the heating distribution system, and reduce the cycling of the heat pump
- Designed for use with either air source or ground source heat pumps
- Indirect models for use with gas or oil boilers, utilise a high efficiency corrugated coil to maximise heat transfer

Designed for use with



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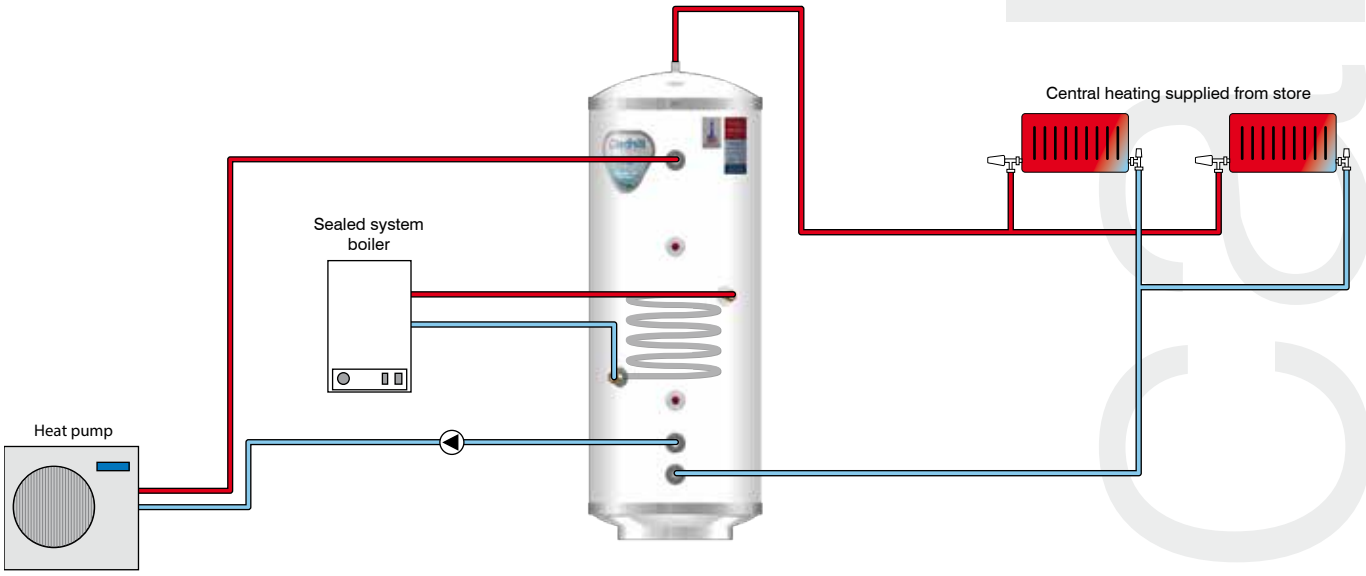

StainlessLite Direct Buffer Store Technical Specifications

Description		90D	120D	210D	300D	400D
Product Stock Code		ASLD90BUFFER	ASLD120BUFFER	ASLD210BUFFER	ASLD300BUFFER	ASLD400BUFFER
Energy Efficiency Class		B	B	C	C	D
Heat Loss	watts	35	44	65	85	118
Capacity	litres	90	120	210	300	400
Height	mm	745	930	1495	1992	2030
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	13	18	28	37	51
Weight (full)	kg	103	138	238	337	451

StainlessLite Indirect Buffer Store Technical Specifications

Description		120IND	210IND	300IND	400IND
Product Stock Code		ASLIND120BUFFER	ASLIND210BUFFER	ASLIND300BUFFER	ASLIND400BUFFER
Energy Efficiency Class		B	C	C	D
Heat Loss	watts	44	65	85	118
Capacity	litres	120	210	300	400
Height	mm	930	1495	1992	2030
Diameter	mm	550	550	550	630
Weight (empty)	kg	22	33	44	55
Weight (full)	kg	142	243	344	455

Notes:

1 For further ErP information, please refer to the installation manual at www.gledhill.net

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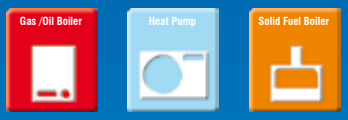
StainlessLite Flexible Buffer Store

Features and benefits

- Open vented Duplex stainless steel cylinder
- Provides connections for multiple inputs
- Suitable for use with air source or ground source heat pumps, wood burning stoves or open vented boilers
- Designed to directly supply the heating circuit
- Works up to 3.5 bar pressure

Designed for use with



Need more technical information?

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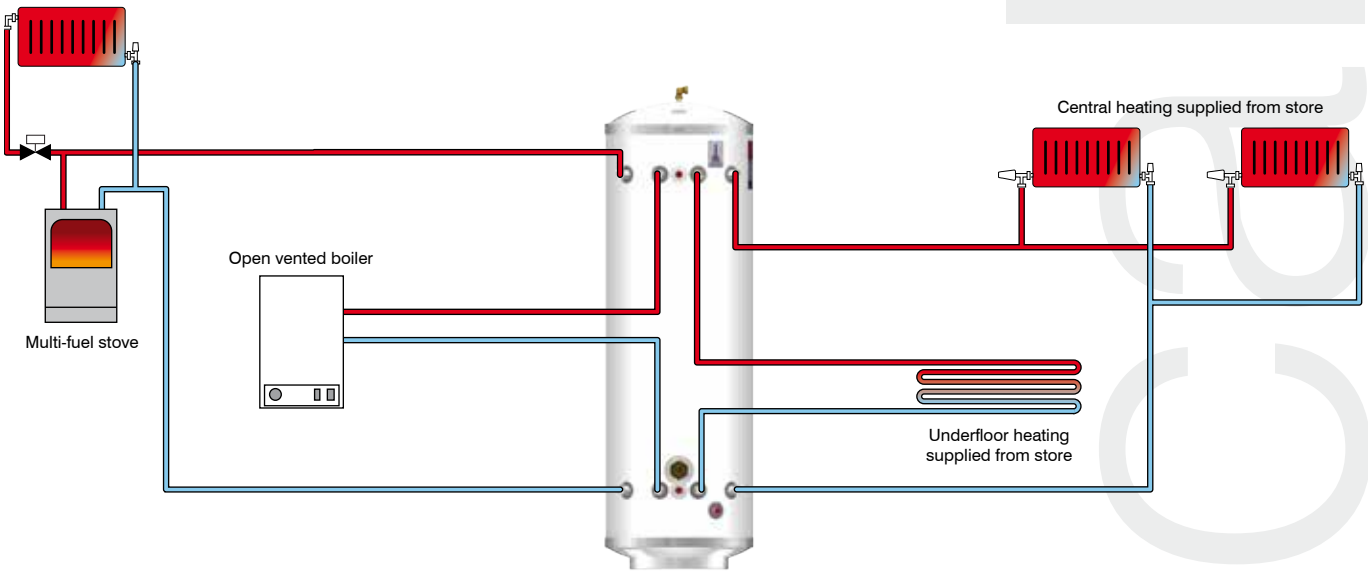

StainlessLite Flexible Buffer Store Technical Specifications

Description		90FLX	120FLX	210FLX	250FLX	300FLX	400FLX
Product Stock Code		ASL90BUF	ASL120BUF	ASL210BUF	ASL250BUF	ASL300BUF	ASL400BUF
Energy Efficiency Class		B	B	C	C	C	D
Heat Loss	watts	35	44	65	75	85	118
Capacity	litres	90	120	210	250	300	400
Height	mm	745	930	1495	1745	1992	2030
Diameter	mm	550	550	550	550	550	630
Weight (empty)	kg	13	18	28	32	37	51
Weight (full)	kg	103	138	238	282	337	451

Notes:

1 For further ErP information, please refer to the installation manual at www.gledhill.net

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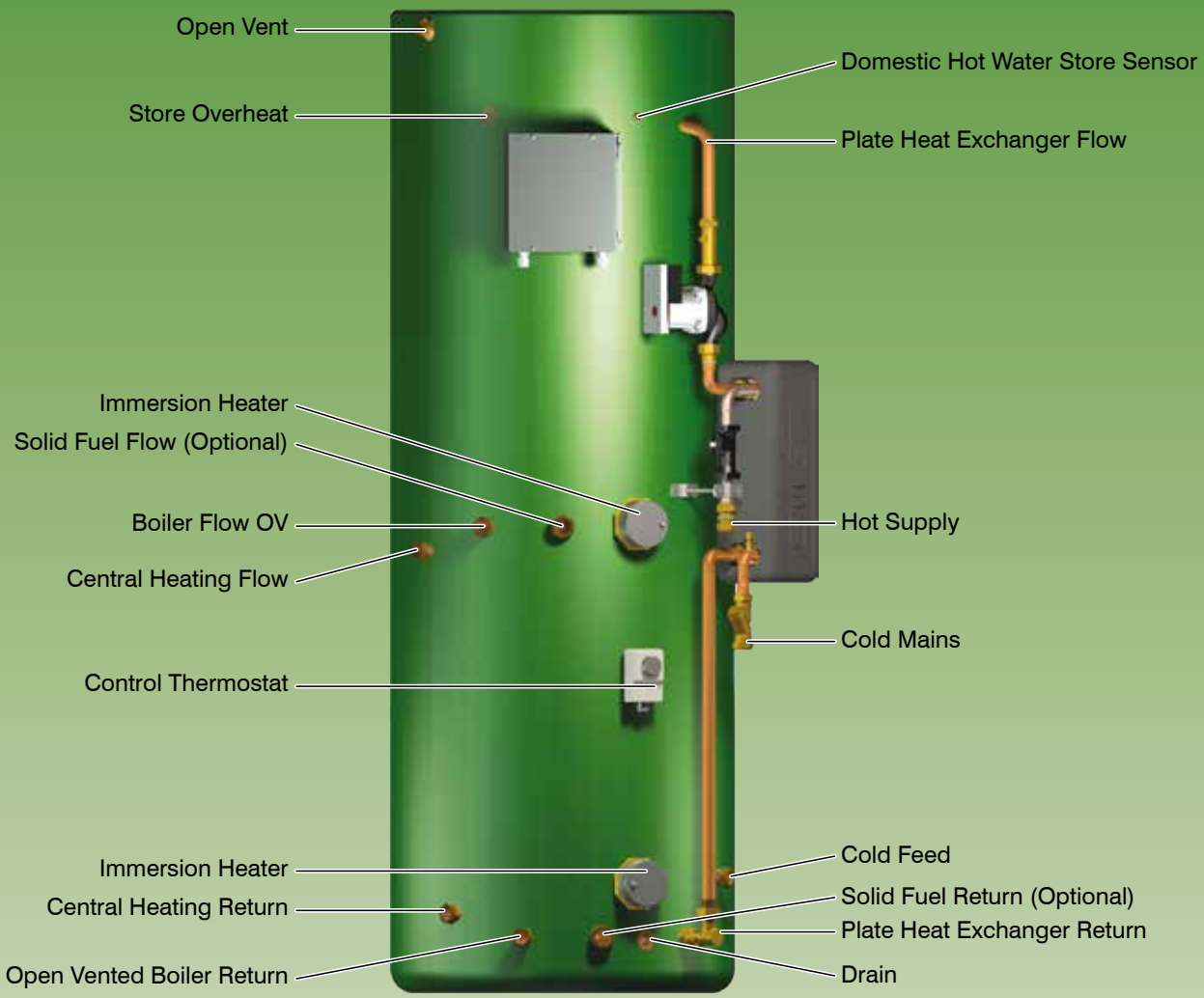
Torrent ECO OV



Features and benefits

- Utilises open vented boiler to heat the store directly
- 3kW immersion heater for emergency back-up
- Electric only versions available
- Optional solid fuel connections
- Provides mains pressure hot water

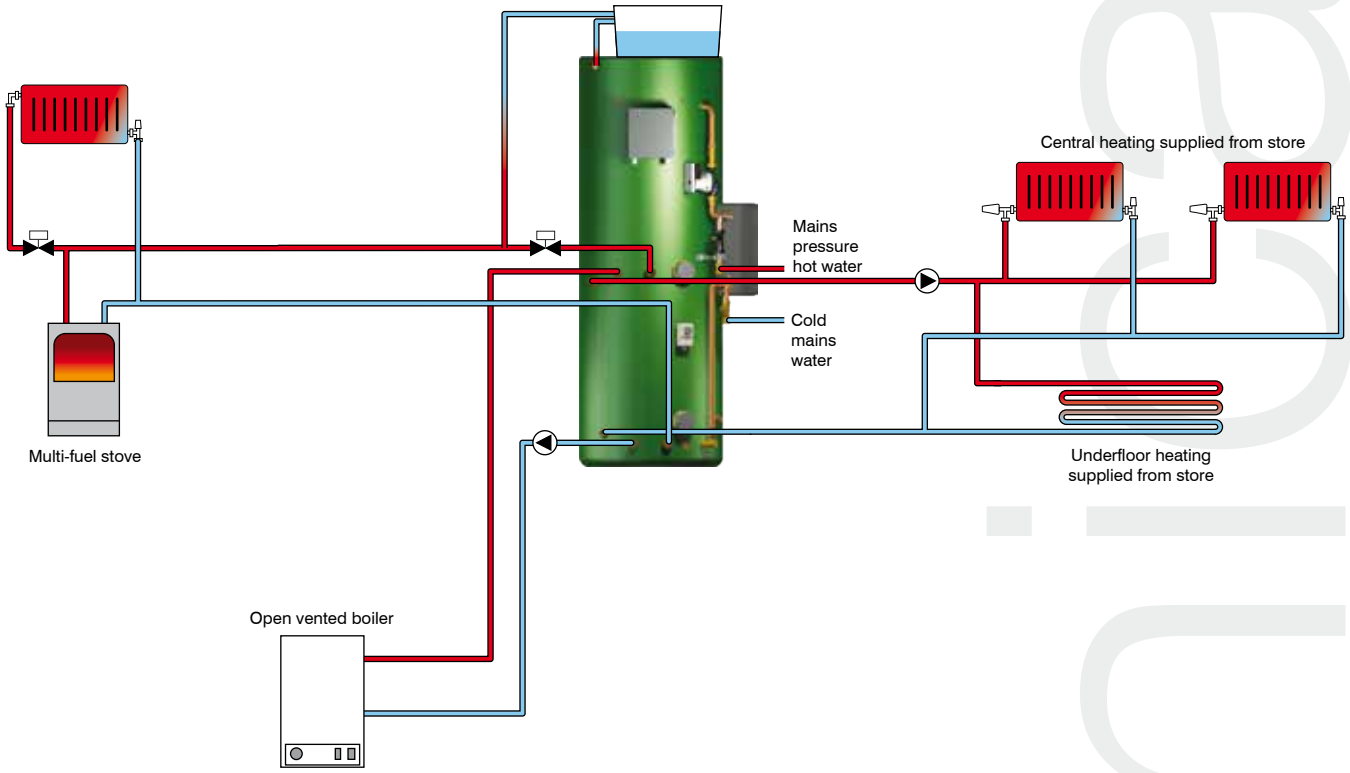
Tappings shown above can be removed or optional extras added at the time of order

Designed for use with

Need more technical information?

SCAN HERE

Torrent ECO OV showing how the cylinder can utilise numerous heat sources (including optional extras) at the same time



Torrent ECO OV Technical Specifications

Description		TEC140-OV	TEC170-OV	TEC210-OV	TEC250-OV	TEC350-OV
Energy efficiency class		C	C	C	D	D
Heat loss	watts	66	74	84	93	114
Domestic hot water volume	litres	140	170	210	250	350
Unit height	mm	1219	1449	1414	1654	1874
Unit diameter	mm	535	535	585	585	636
Max. hot water flow rate	litres/minute	35	35	35	35	35
Maximum dwelling type	Bath	1	1	2	2	3
	Shower room	-	1	1	2	2
	Bed	1 - 2	2 - 4	3 - 4	3 - 5	3 - 5

Notes:

- Please note the diagrams shown include optional extra components.
- 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.

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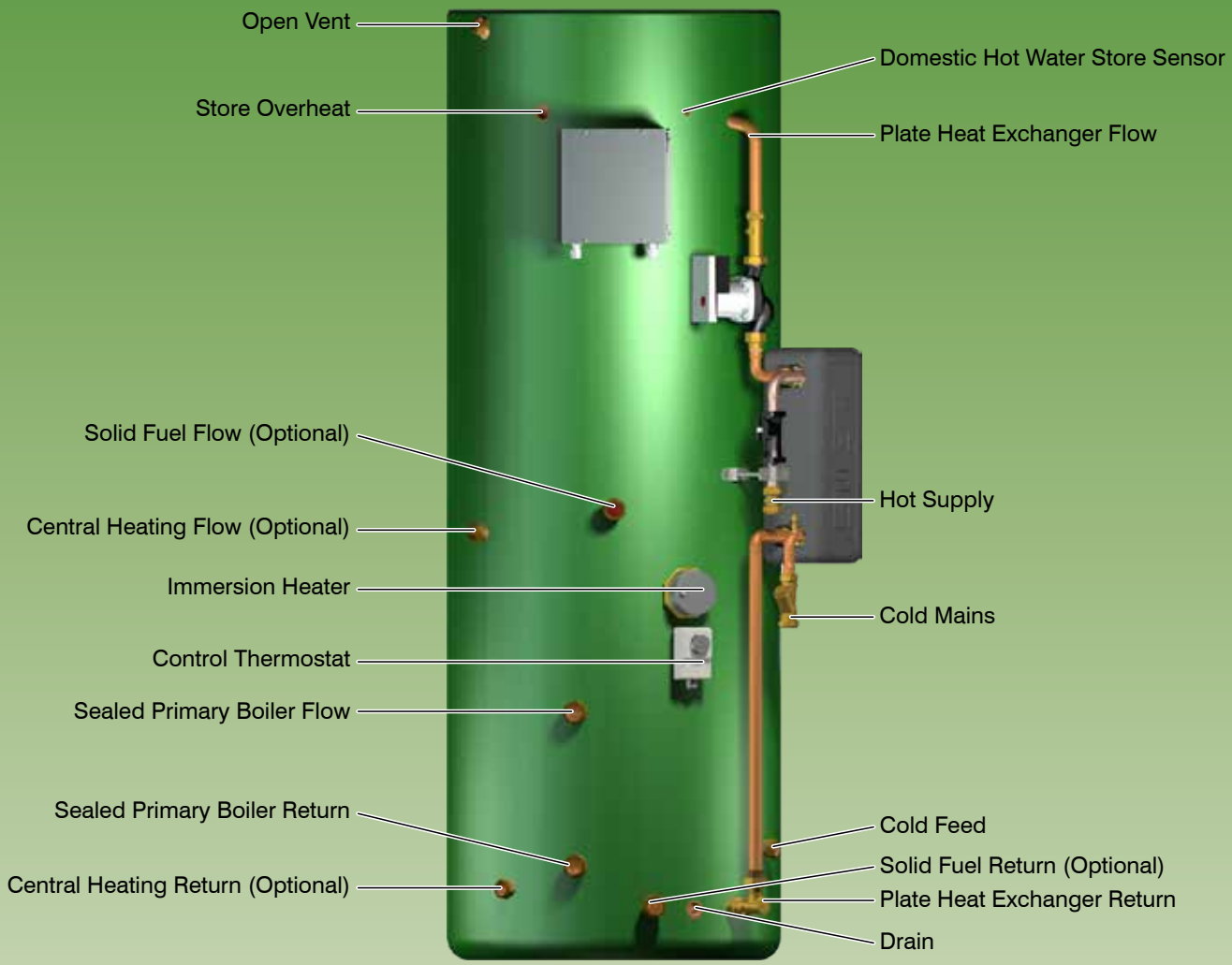
Torrent ECO SP



Features and benefits

- Utilises a sealed primary boiler to heat the store indirectly via an internal coil
- Auxilliary or underfloor heating available directly from the store (subject to heat input)
- 3kW immersion heater for emergency back-up
- Optional solid fuel connections
- Provides mains pressure hot water

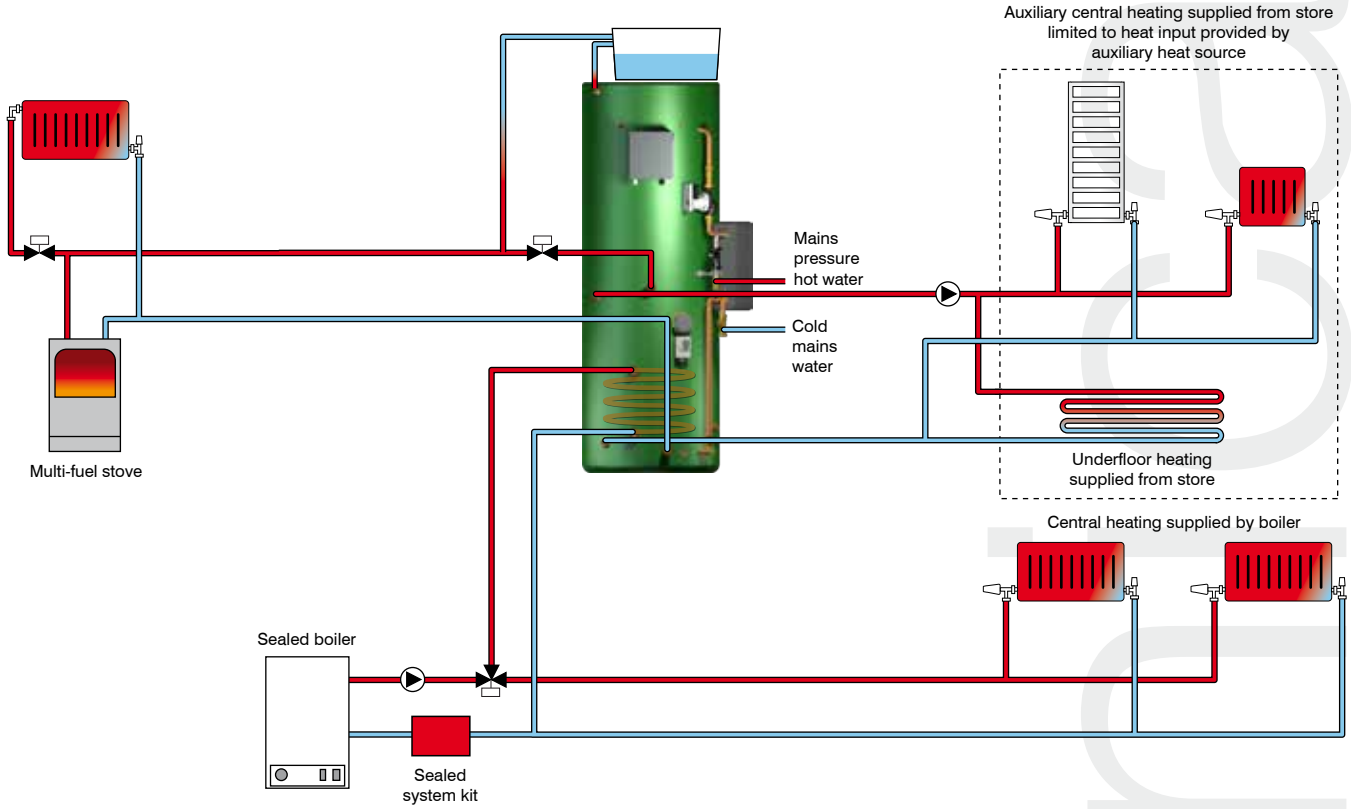
Tappings shown above can be removed or optional extras added at the time of order

Designed for use with

Need more technical information?

SCAN HERE

Torrent ECO SP showing how the cylinder can utilise numerous heat sources (including optional extras) at the same time



Torrent ECO SP Technical Specifications

Description		TEC140-SP	TEC170-SP	TEC210-SP	TEC250-SP	TEC350-SP
Energy efficiency class		C	C	C	D	D
Heat loss	watts	66	74	84	93	114
Domestic hot water volume	litres	140	170	210	250	350
Unit height	mm	1219	1449	1414	1654	1874
Unit diameter	mm	535	535	585	585	636
Max. hot water flow rate	litres/minute	35	35	35	35	35
Maximum dwelling type	Bath	1	1	2	2	3
	Shower room	-	1	1	2	2
	Bed	1 - 2	2 - 4	3 - 4	3 - 5	3 - 5

Notes:

- Please note the diagrams shown include optional extra components.
- Additional height for a 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 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.

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