

# StainlessLite

Unvented mains pressure water storage in Duplex stainless steel

S U P P L I E R S   T O   T H E   M E R C H A N T   T R A D E   F O R   O V E R   3 5   Y E A R S



# StainlessLite



Providing powerful, mains-pressure performance, it incorporates high flow rate controls, ideal for multi bathroom homes where baths fill very quickly.

There are Indirect and Direct patterns for gas/oil and electricity with model sizes from 60 litres to 400 litres in each pattern with an additional eight options for solar energy.

## Duplex Stainless Steel

The Stainless Lite uses the very latest high specification Duplex to resist all forms of corrosion including crevice and stress whilst its high mechanical strength gives it durability.

The very latest automated welding procedures along with full post weld treatments guarantee welds that are as strong as the parent metal. Stainless Lite is pressure tested in the factory to a full 12 bar which is four times the normal working pressure.

## Corrugated Coil

Stainless Lite uses a high heat transfer corrugated tube heat exchanger to give a 20% faster recovery than plain tube. It is also lighter and stronger than plain tube making the vessel the lightest and easiest to handle on site.

## Maximum Capacity

The unique Gledhill diffuser reduces turbulence when cold water enters the store by baffling the flow. The end result is that the hot water output is equal to the capacity. A 180 litre vessel will produce 180 litres of hot water!

## 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, but we have also produced unvented cylinders from the very beginning. Stainless Lite is an unvented mains pressure store in Duplex stainless steel that establishes new criteria for quality, performance and life.





## Heat Loss

All Gledhill Stainless Lite cylinders are manufactured using the very latest HCFC free EnviroFoam insulation. This has an Ozone Depletion Potential (ODP) of zero and an industry leading Global Warming Potential (GWP) of 0.7.

Tests show that the 50mm of EnviroFoam insulation injected into the case and covering both domes achieves astonishingly low levels of heat loss, which ensures it is fully compliant with 2010 Part L requirements for both new build and replacement cylinders.

## 25 Year Guarantee

The 25 year guarantee underlines the usual Gledhill confidence in its own products. We regularly have copper cylinders returned to us that we made more than 40 years ago – why should anyone expect less from stainless steel?

## Service

Buying a good reputable product is critical – but it must be available when needed. Gledhill has strategically located manufacturing units so that delivery can be made to a merchant anywhere within hours.

## Quality Standard - EN 12897

All Stainless Lite cylinders are manufactured in accordance with BS EN 12897 the specification for unvented water storage vessels. The cylinders have been tested by KIWA a member of the European Organisation for Technical Approvals (EOTA) and found to comply with Building Regulations G3 and Water Regulations.

In performance, it complies with the requirements of BS6700 and meets the NHBC criteria for domestic properties.

Gledhill also operates a quality management system audited and accepted by the BSI in accordance with BS EN ISO 9001:2008.

The Stainless Lite cylinders are supplied with all the quality fittings, according to model, needed including;

- Immersion heater(s)
- 2 port zone valve (indirect)
- Wiring centre (indirect)
- Dual thermostat (indirect)
- Inlet control set
- Tundish
- Expansion vessel kit
- Installation manual
- Benchmark log book
- Temperature and pressure relief valve (unvented only)
- Control thermostat and drain valve

**Our complete range of stainless steel cylinder options are explained in this brochure:**

**Page 4 Stainless Lite Direct and Indirect**

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# Direct and Indirect

Unvented cylinders for use with a conventional boiler or electric power

Gledhill Building Products manufacture 16 standard direct and indirect cylinders, ranging from 90 litres to 400 litres capacity.

The Stainless Lite direct model is supplied with two immersions for off-peak and on-peak use (except 90 litre model which only has an on-peak immersion). Therefore, the store of water in the cylinder can be heated utilising the off-peak electricity, making the unit extremely efficient. These cylinders are ultimately lightweight, easy to install answer for electric hot water options.

The immersion heater(s) must be connected to the supply through a double pole linked isolating switch with a minimum breaking capacity of 13A.



All models have a temperature and pressure relief valve factory set at 6 bar and 95°C.

The indirect range has a high efficiency corrugated tube coil which is connected to a conventional boiler to heat the cylinder of water. The coils corrugated design gives you much faster re-heat times than can be achieved with plain tube coils. All indirect models come with an on-peak immersion but only the 250, 300 and 400 litre models are supplied with an off-peak immersion.

All tappings are within a 90° segment to make installation easier.



Stainless Lite Direct Technical Specification									
Description		D90	D120	D150	D180	D210	D250	D300	D400
Height	mm	732	920	1107	1295	1483	1733	2020	2040
Diameter	mm	550	550	550	550	550	550	550	630
Weight (empty)	kg	13	18	22	24	28	32	37	48
Weight (full)	kg	103	138	172	204	238	282	337	448
Capacity	litres	90	120	150	180	210	250	300	400
Pressure regulator	bar	3	3	3	3	3	3	3	3
Expansion vessel size	litres	12	12	18	18	24	24	35	2 x 24
kW rating of primary coil	kW	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Recovery time after 70% draw off	min	58	90	121	157	192	224	263	358/179
Standing losses	kWhr/24hr	0.80	1.00	1.20	1.40	1.60	1.75	1.93	3.33

Stainless Lite Direct Model Selection Guide		
Maximum hot water demand	Maximum number of bed spaces (bedrooms)	Model
1 shower room	Bedsit (0)	D120
1 bathroom	2 (2)	D150
1 bathroom	4 (3)	D180
1 bathroom & separate shower room	6 (4)	D210
1 bathroom & 2 separate shower rooms or 2 bathrooms	7 (5)	D210
2 bathrooms & separate shower room	7 (5)	D250
2 bathrooms & 2 separate shower rooms	7 (5)	D300
3 bathrooms & 2 separate shower rooms	9 (6)	D400

Stainless Lite Indirect Technical Specification									
Description		IND90	IND120	IND150	IND180	IND210	IND250	IND300	IND400
Height	mm	732	920	1107	1295	1483	1733	2020	2040
Diameter	mm	550	550	550	550	550	550	550	630
Weight (empty)	kg	19	22	26	28	33	38	44	55
Weight (full)	kg	109	142	176	208	243	288	344	455
Capacity	litres	90	120	150	180	210	250	300	400
Pressure regulator	bar	3	3	3	3	3	3	3	3
Expansion vessel size	litres	12	12	18	18	24	24	35	2 x 24
kW rating of primary coil	kW	16.5	18.0	18.5	19.0	20.5	21.5	25.0	30.5
Recovery time after 70% draw off	min	16	19	19	21	26	30	32	36
Standing losses	kWhr/24hr	0.80	1.00	1.20	1.40	1.60	1.75	1.93	3.33

Stainless Lite Indirect Model Selection Guide		
Maximum hot water demand	Maximum number of bed spaces (bedrooms)	Model
1 shower room	Bedsit (0)	IND90
1 bathroom	2 (2)	IND120
1 bathroom	4 (3)	IND120
1 bathroom & separate shower room	6 (4)	IND150
1 bathroom & 2 separate shower rooms or 2 bathrooms	7 (5)	IND180
2 bathrooms & separate shower room	7 (5)	IND210
2 bathrooms & 2 separate shower rooms	7 (5)	IND250
3 bathrooms & 2 separate shower rooms	9 (6)	IND300
3 bathrooms & 3 separate shower rooms	9 (6)	IND400

**Notes:**

- 1 Recovery time is based on primary coil/immersion heater duty (ie. assumes the boiler output is adequate).
- 2 All connections are supplied with compression fittings for direct connection to copper pipework.
- 3 The heat up times shown for the D400 model indicate the times when 1 or 2 immersions are fitted.
- 4 The model sizes shown are based on a typical days hot water use assuming an Economy 7 tariff is provided. A reduction of one model size can normally be made with an Economy 10 tariff.
- 5 When using the Direct model for high specification developments, an increase of one model size should be considered.

# StainlessLite Solar

## Unvented cylinders incorporating a solar coil

Gledhill has developed a range of cylinders specifically for solar applications in mind, therefore providing an efficient way of providing domestic hot water. Each model features a dedicated high performance solar coil, transferring the maximum amount of heat from the solar circuit to the stored water.

The cylinders are compatible with a wide range of solar systems available through the United Kingdom and have been designed to maximise the dedicated solar volume.

The direct models are electrically heated cylinders, using the 3kW immersion heater supplied with the unit, with a

high performance solar coil. They are capable of meeting the requirements of Building regulations, provided that it is matched to the panels and the hot water requirement correctly. The indirect cylinders are heated by a conventional boiler (either gas or oil) through a second high performance coil.

The solar range is based on the standard Stainless Lite cylinders, therefore still providing you with mains pressure hot water, low standing heat losses and lightweight construction. The range of cylinders is suitable for properties from a bedsit to a 5 bedroom family home.

Stainless Lite Direct Solar Technical Specification						
Description		SOL180d	SOL210d	SOL250d	SOL300d	SOL400d
Height	mm	1295	1483	1733	2020	2040
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	26	30	34	39	49
Weight (full)	kg	206	240	284	339	449
Capacity	litres	180	210	250	300	400
Pressure regulator	bar	3	3	3	3	3
Expansion vessel size	litres	18	24	24	35	2 x 24
kW rating of primary coil	kW	n/a	n/a	n/a	n/a	n/a
Recovery time after 70% draw off	min	90	115	139	187	260
Standing losses	kWhr/24hr	1.40	1.60	1.75	1.93	3.33
Surface area of solar coil	m <sup>2</sup>	0.680	0.680	0.970	0.970	1.270
Dedicated solar volume	litres	60	70	84	100	150

Model Selection Guide			
Maximum hot water demand	Maximum solar panel area (m <sup>2</sup> )	Bedrooms	Model
1 shower room	2.4	Bedsit	SOL180d
1 bathroom	2.8	1-3	SOL210d
1 bathroom & separate shower room	3.36	1-3	SOL250d
1 bathroom & 2 separate shower rooms	4.0	2-4	SOL300d
2 bathrooms & separate shower room	6.0	4-5	SOL400d

### Notes:

- 1 Recovery time is based on primary coil/immersion heater duty (ie. assumes the boiler output is adequate).
- 2 All connections are supplied with compression fittings for direct connection to copper pipework.
- 3 The model sizes shown are based on a typical days hot water use assuming an Economy 7 tariff is provided. A reduction of one model size can normally be made with an Economy 10 tariff.
- 4 When using the Direct model for high specification developments, an increase of one model size should be considered.
- 5 When selecting a solar model, it is important to check the dedicated solar volume is suitable for either the total floor area of the dwelling or the total net area of the solar panel to ensure compliance with Building Regulations.
- 6 Maximum solar panel area is calculated based on 25l/m<sup>2</sup> of net solar panel area.



Stainless Lite Indirect Solar Technical Specification						
Description		SOL180i	SOL210i	SOL250i	SOL300i	SOL400i
Height	mm	1295	1483	1733	2020	2040
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	30	35	40	46	59
Weight (full)	kg	210	245	290	346	459
Capacity	litres	180	210	250	300	400
Pressure regulator	bar	3	3	3	3	3
Expansion vessel size	litres	18	24	24	35	2 x 24
kW rating of primary coil	kW	18.0	18.5	19.0	20.5	22.0
Recovery time after 70% draw off	min	16	16	19	20	24
Standing losses	kWhr/24hr	1.40	1.60	1.75	1.93	3.33
Surface area of solar coil	m <sup>2</sup>	0.680	0.680	0.970	0.970	1.270
Dedicated solar volume	litres	70	90	107	125	165

Model Selection Guide			
Maximum hot water demand	Maximum solar panel area (m <sup>2</sup> )	Bedrooms	Model
1 bathroom	2.8	1-3	SOL180i
1 bathroom & separate shower room	3.6	1-3	SOL210i
1 bathroom & 2 separate shower rooms	4.8	2-4	SOL250i
2 bathrooms & separate shower room	5.0	3-4	SOL300i
2 bathrooms & 2 separate shower rooms	6.6	4-5	SOL400i

**Notes:**

- 1 Recovery time is based on primary coil/immersion heater duty (ie. assumes the boiler output is adequate).
- 2 All connections are supplied with compression fittings for direct connection to copper pipework.
- 3 When selecting a solar model, it is important to check the dedicated solar volume is suitable for either the total floor area of the dwelling or the total net area of the solar panel to ensure compliance with Building Regulations.
- 4 Maximum solar panel area is calculated based on 25l/m<sup>2</sup> of net solar panel area.

# StainlessLite Slimline

Unvented cylinders designed for restricted spaces with optional solar coil

The new Stainless Lite Slimline cylinders have been added to our range of Duplex stainless steel cylinders, to enable you to utilise those smaller storage areas.

The standard size Stainless Lite cylinders are 550mm in diameter but the new slimline range has a reduced diameter of 475mm. This now enables installers to fit the new cylinders into smaller properties or older homes where there are space limitations, and so provide the benefits of mains pressure hot water.

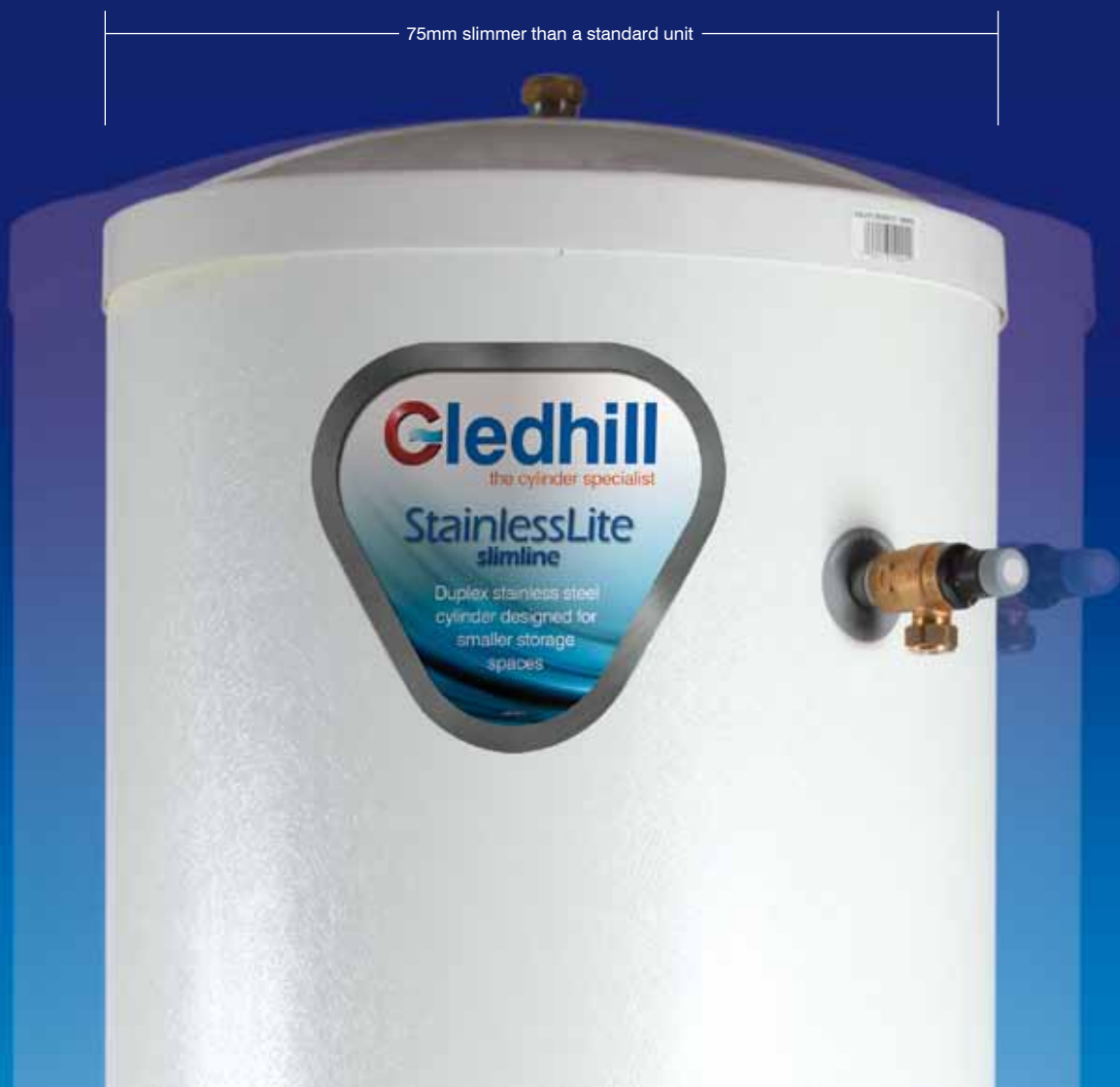
The new range of Stainless Lite Slimline cylinders come in sizes from 60 litres to 210 litres in both indirect and direct versions. In addition, it also comes with a solar option in 180 litre and 210 litre sizes. This now means there will be a model to suit most homes.

The introduction of the Slimline solar range enables homeowners to not only upgrade to a Duplex stainless steel cylinder, but also have the added benefit of being able to utilise solar power to contribute to the heating of the store.

Properties that previously could not enjoy mains pressure hot water can now enjoy powerful, mains-pressure performance, incorporating high flow rate controls, ideal for multi bathroom homes, where baths fill very quickly.

You will still benefit from the high heat transfer corrugated tube giving 20% faster recovery than plain tubing, controlled stratification and minimal heat loss.

All slimline models come complete with an on-peak immersion and the 120-210 direct models also have an off-peak immersion.





Stainless Lite Direct Slimline and Solar Technical Specification									
Description		D60-SL	D90-SL	D120-SL	D150-SL	D180-SL	D210-SL	SOL 180d-SL	SOL 210d-SL
Height	mm	704	976	1284	1520	1790	2005	1790	2005
Diameter	mm	475	475	475	475	475	475	475	475
Weight (empty)	kg	13	16	22	30	31	32	32	36
Weight (full)	kg	73	106	142	180	211	242	212	246
Capacity	litres	60	90	120	150	180	210	180	210
Pressure regulator	bar	3	3	3	3	3	3	3	3
Expansion vessel size	litres	12	12	12	18	18	24	18	24
kW rating of primary coil	kW	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Recovery time after 70% draw off	min	39	58	90	121	157	192	90	115
Standing losses	kWhr/24hr	0.95	1.25	1.52	1.77	2.01	2.23	2.01	2.23
Surface area of solar coil	m <sup>2</sup>	n/a	n/a	n/a	n/s	n/a	n/a	0.680	0.680
Dedicated solar volume	litres	n/a	n/a	n/a	n/a	n/a	n/a	60	70

Stainless Lite Indirect Slimline and Solar Technical Specification									
Description		IND60-SL	IND90-SL	IND120-SL	IND150-SL	IND180-SL	IND210-SL	SOL 180i-SL	SOL 210i-SL
Height	mm	704	976	1284	1520	1790	2005	1790	2005
Diameter	mm	475	475	475	475	475	475	475	475
Weight (empty)	kg	14	19	23	28	31	34	33	37
Weight (full)	kg	74	109	143	178	211	244	213	247
Capacity	litres	60	90	120	150	180	210	180	210
Pressure regulator	bar	3	3	3	3	3	3	3	3
Expansion vessel size	litres	12	12	12	18	18	24	18	24
kW rating of primary coil	kW	15.0	16.5	18.0	18.5	19.0	20.5	18.0	18.5
Recovery time after 70% draw off	min	11	16	19	19	21	26	16	16
Standing losses	kWhr/24hr	0.95	1.25	1.52	1.77	2.01	2.23	2.01	2.23
Surface area of solar coil	m <sup>2</sup>	n/a	n/a	n/a	n/s	n/a	n/a	0.680	0.680
Dedicated solar volume	litres	n/a	n/a	n/a	n/a	n/a	n/a	60	70

Model Selection Guide			
Maximum hot water demand	Maximum number of bed spaces (bedrooms)	Direct Model	Indirect Model
1 shower room	Bedsit (0)	D120-SL	IND90-SL
1 bathroom	2 (2)	D150-SL	IND120-SL
1 bathroom	4 (3)	D180-SL	IND120-SL
1 bathroom & separate shower room	6 (4)	D210-SL	IND150-SL
1 bathroom & 2 separate shower rooms or 2 bathrooms	7 (5)	D210-SL	IND180-SL
2 bathrooms & separate shower room	7 (5)	-	IND210-SL

Solar Model Selection Guide				
Maximum hot water demand	Maximum solar panel area (m <sup>2</sup> )	Bedrooms	Direct Model	Indirect Model
1 shower room	2.4	Bedsit	SOL180d-SL	-
1 bathroom	2.4	1-3	-	SOL180i-SL
1 bathroom	2.8	1-3	SOL210d-SL	-
1 bathroom & separate shower room	2.8	1-3	-	SOL210i-SL

**Notes:**

- 1 Recovery time is based on primary coil/immersion heater duty (ie. assumes the boiler output is adequate).
- 2 All connections are supplied with compression fittings for direct connection to copper pipework.
- 3 The Direct model sizes shown are based on a typical days hot water use assuming an Economy 7 tariff is provided. A reduction of one model size can normally be made with an Economy 10 tariff.
- 4 When using the Direct model for high specification developments, an increase of one model size should be considered.
- 5 When selecting a solar model, it is important to check the dedicated solar volume is suitable for either the total floor area of the dwelling or the total net area of the solar panel to ensure compliance with Building Regulations.
- 6 Maximum solar panel area is calculated based on 25l/m<sup>2</sup> of net solar panel area.

# StainlessLite HP

Unvented cylinders specifically designed to work with a heat pump

Gledhill have produced an unvented stainless steel unit specifically for heat pump applications providing mains pressure domestic hot water. Utilising the well established Gledhill Stainless Lite unvented hot water cylinder, this product has been developed to maximise the lower temperatures available from the heat pump.

The heat exchanger is a totally new design. It consists of a multi-pass corrugated stainless steel tube in parallel to reduce the pressure loss whilst maximising the heat exchange. Many medium to large heat pumps need heat exchangers in the store that will cope with the higher flow rates associated with primary temperatures that are typically 50°C or 60°C.

All the usual features of the Gledhill Stainless Lite are maintained together with all the necessary controls and expansion devices included.

Due to the fact that many heat pumps will not raise the stored water temperature to 60°C, which is necessary to prevent the growth of legionella, the Stainless Lite HP model is supplied with an immersion heater tapping and a thermostat pocket.

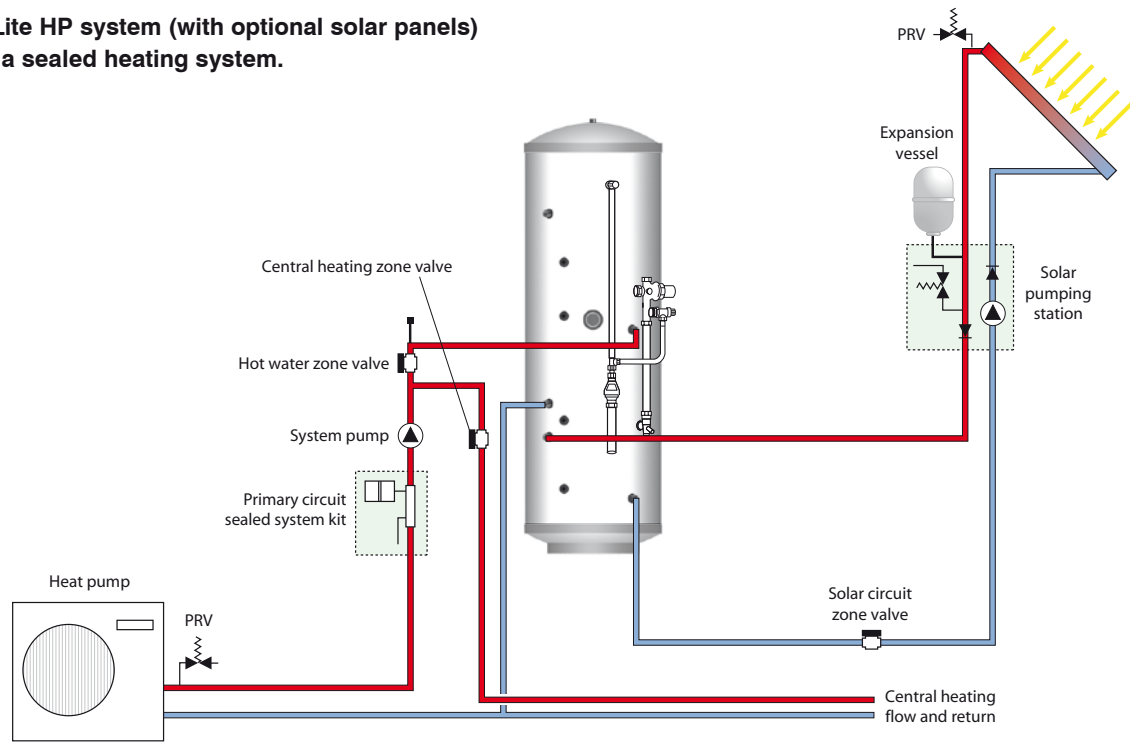
It is recommended that a thermostat is fitted which brings the immersion heater 'on' at a temperature just below the heat pump maximum and switches off at 60°C or 65°C. In this way the use of 'direct' electricity is minimised and most of the water heating is achieved through the heat pump.



The key features of the Stainless Lite HP are:

- The latest and highest quality Duplex Stainless Steel.
- A 25 year guarantee.
- Fast reheat rate from its purpose designed low resistance coil.
- One of the highest insulation ratings on offer today.
- The Stainless Lite HP is supplied with all the necessary connections including two dry thermostat pockets.

**Stainless Lite HP system (with optional solar panels)  
for use on a sealed heating system.**



Stainless Lite HP Technical Specification						
Description		HP180IND	HP210IND	HP250IND	HP300IND	HP400IND
Height	mm	1295	1483	1733	2020	2040
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	33	38	43	49	61
Weight (full)	kg	213	248	293	349	461
Capacity	litres	180	210	250	300	400
Pressure regulator	bar	3	3	3	3	3
Expansion vessel size	litres	18	24	24	35	2 X 24
kW rating of heat pump coil	kW	24.3	26.2	27.5	34.2	47.2
Heat pump coil pressure loss	bar	0.048	0.054	0.060	0.019	0.027
Surface area of heat pump coil	m <sup>2</sup>	1.36	1.56	1.94	2.04	2.91
Standing losses	kWhr/24hr	1.40	1.60	1.75	1.93	3.33
Surface area of solar coil	m <sup>2</sup>	0.680	0.680	0.970	0.970	1.270
Dedicated solar volume	litres	65	75	90	105	130

Model Selection Guide				
Maximum hot water demand	Maximum solar panel area (m <sup>2</sup> )	Bedrooms	Model (without solar heating input)	Model (with solar heating input)
1 bathroom	2.6	1-3	HP180IND	HP180IND
1 bathroom & separate shower room	3.0	2-3	HP180IND	HP210IND
1 bathroom & 2 separate shower rooms	3.6	2-3	HP180IND	HP250IND
2 bathrooms & separate shower room	4.2	2-4	HP210IND	HP300IND
2 bathrooms & 2 separate shower rooms	5.2	2-4	HP250IND	HP400IND
2 bathrooms & 2 separate shower rooms	-	3-5	HP300IND	-
2 bathrooms & 3 separate shower rooms	-	4-5	HP400IND	-

**Notes:**

- 1 All connections are supplied with compression fittings for direct connection to copper pipework.
- 2 The suggested model sizes shown are based on a typical days hot water use assuming that the heat pump will heat the domestic hot water to approximately 50 °C.
- 3 When connecting to solar heating input, it is important to check the dedicated solar volume is suitable for the total floor area to comply with Building Regulations.
- 4 The Stainless Lite HP units are the same whether you are running solar thermal systems in conjunction with heat pump or just using a heat pump input only.
- 5 The solar dedicated volume is only applicable when used in conjunction with solar thermal systems.
- 6 When selecting a solar model, it is important to check the dedicated solar volume is suitable for either the total floor area of the dwelling or the total net area of the solar panel to ensure compliance with Building Regulations.
- 7 Maximum solar panel area is calculated based on 25 l/m<sup>2</sup> of net solar panel area.
- 8 Heat pump kW rating performed at 80 °C and 0.25 l/s.

# Buffer Store

Vented store for use with a heat pump



Buffer vessels are simply a duplex stainless steel tank that contains a volume of water, increasing the overall volume of the heating distribution system. This extra volume of water is designed to absorb any extra heat generated by the heat pump in low load conditions.

If the building cannot absorb the extra heat generated the return temperature to the heat pump will increase and will potentially cause the heat pump to turn off. If the temperature drops in the water returning to the heating appliance, then it will turn itself back on. If this cycling occurs at a greater frequency than the minimum run time for the appliance, this is classed as short cycling. The aim of a buffer vessel is to remove the possibility of any short cycling of the heating appliance.

These buffer vessels are designed to work at up to 3.5 bar pressure for primary water only. They should **not** be used for potable domestic hot water and are not approved for this purpose.

**Stainless Lite Direct Buffer Store Technical Specification**

Description		90D	120D	210D	300D	400D
Height	mm	732	920	1483	2020	2030
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	13	18	28	37	51
Weight (full)	kg	103	138	238	337	451
Capacity	litres	90	120	210	300	400
Standing losses	kWhr/24hr	0.80	1.00	1.60	1.93	3.33

**Stainless Lite Indirect Buffer Store Technical Specification**

Description		120IND	210IND	300IND	400IND
Height	mm	920	1483	2020	2030
Diameter	mm	550	550	550	630
Weight (empty)	kg	22	33	44	55
Weight (full)	kg	142	243	344	455
Capacity	litres	120	210	300	400
Standing losses	kWhr/24hr	1.00	1.60	1.93	3.33

# StainlessLite Triple Coil

Open vented cylinders for use with multiple heat sources

To satisfy the growing demand for a stainless steel cylinder being capable of accepting multiple heat sources, Gledhill has developed a triple coil version of the Stainless Lite cylinder, which can accept solar and uncontrolled heat sources such as solid fuel or wood burning appliances.

The cylinder has a dedicated solar coil at the bottom of the cylinder. It then has a double coil for the solid fuel heat supply and a single coil for the gas/oil boiler. It also has a back up heat source in the form of an immersion heater.

The three separate coils will work independently providing the maximum heat to the store, and subsequently reduce the households fuel bills. The boiler coil and solar coil are both 22mm and the solid fuel gravity circulation are 28mm.



Stainless Lite Triple Coil Technical Specification			
Description		IND300-STC	IND400-STC
Height	mm	2020	2040
Diameter	mm	550	630
Weight (empty)	kg	46	60
Weight (full)	kg	346	460
Capacity	litres	300	400
kW rating of primary coil	kW	20.5	20.5
Recovery time after 70% draw off	min	41	45
Standing losses	kWhr/24hr	1.93	3.33
Surface area of solar coil	m <sup>2</sup>	0.97	1.27
Dedicated solar volume	litres	100	150
Maximum solar panel area	m <sup>2</sup>	4.0	6.0

**Notes:**

- 1 Recovery time is based on primary coil/immersion heater duty (ie. assumes the boiler output is adequate).
- 2 All connections are supplied with compression fittings for direct connection to copper pipework.
- 3 When selecting a solar model, it is important to check the dedicated solar volume is suitable for either the total floor area of the dwelling or the total net area of the solar panel to ensure compliance with Building Regulations.
- 4 Maximum solar panel area is calculated based on 25l/m<sup>2</sup> of net solar panel area.

# StainlessLite Vented

Open vented cylinder for use with uncontrolled heat sources

The Stainless Lite Vented provides a high quality open vented stainless steel cylinder for use in a traditional vented cylinder installation. As an open vented cylinder, it also permits the connection of an uncontrolled heat source such as a solid fuel or wood burning appliance, which is not permitted with an unvented cylinder.

The technical and dimensional data for the Stainless Lite Vented is the same as the Stainless Lite direct and Stainless Lite Solar, both of which are available in direct and indirect configurations. Full technical details can be found on pages 5-8 in this brochure.

The only difference between the vented and unvented range of stainless steel cylinders is that instead of being supplied with the unvented kit, the vented option is supplied with a control thermostat and a drain valve.



The traditional vented storage water heater has a proven track record of reliability and safety. The operating pressure is dictated by the vertical distance between the cistern tank and the bottom of the heater.

The open vented system is renowned for its safety because the open vent that discharges in to the cistern tank automatically equalises any excess pressure or vacuum.

The Stainless Lite Vented cylinder is fully compliant with 2010 Part L regulations, therefore it now enables you to fit a vented cylinder into a new build property.



Providing both quality and performance



# UK Super Depot Infrastructure

## Blackpool

Head Office and  
Stainless Steel Manufacturing Site

## Blackburn

Depot Manager: Daniel Wilson  
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## Dudley

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## Huntingdon

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## Inverkeithing

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## Maidstone

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## Paignton

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Depot Manager: Rob Barnes  
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## Southampton

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**For technical advice call  
01253 474584**



## Gledhill Building Products Limited

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Gledhill Building Products produce cylinders for use with a wide range of heat sources including;

**Gas and oil boilers  
Ground source heat pumps**

**Electricity  
Solar energy**

**Air source heat pumps  
Wood burning stoves**

For further information of Gledhill products can be found on the internet at [www.gledhill.net](http://www.gledhill.net)



FM 2057  
Gledhill cylinders are produced  
under an ISO 9001:2008  
Quality System accepted  
by BSI



Due to a programme of continuous improvement Gledhill Building Products reserve the right to modify products without prior notice.

It is advisable to check the product technical detail by using the latest design and installation manuals available from our technical support team or on our website.