

# Vented Cylinder Range

Standard cylinders manufactured from either copper or 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



# Cylinder Range



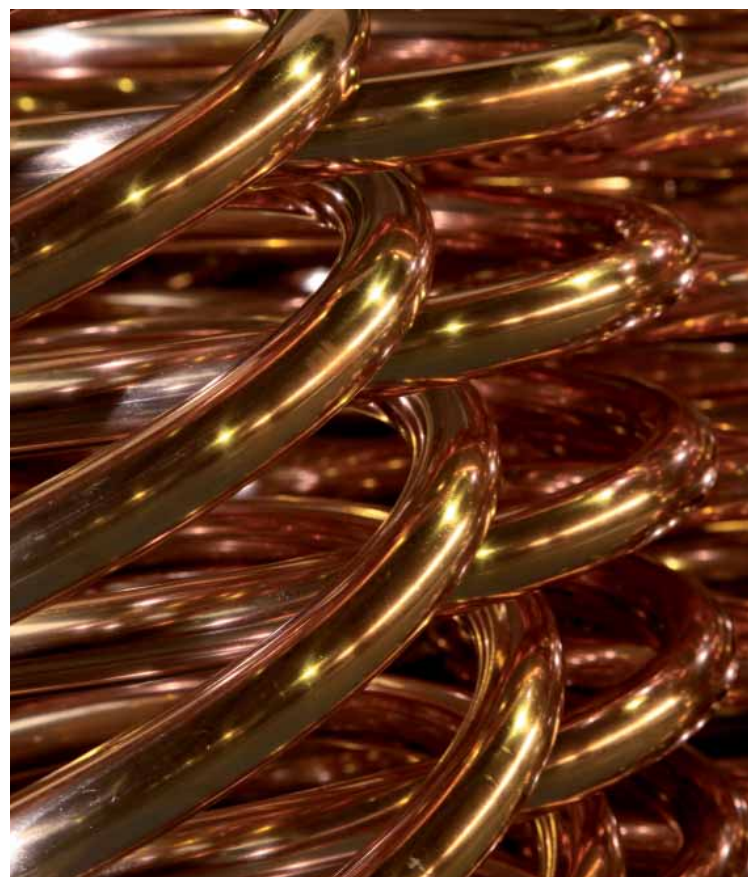
Gledhill Building Products provide standard and 'special' cylinders to the merchant trade. The standard range are manufactured from both stainless steel and copper. Our copper range includes cylinders and combination units for all traditional domestic applications; commercial and industrial cylinders and calorifiers; packaged plumbing units, products for use with off peak electricity and thermal stores suitable for use with all types of alternative energy.

## Customer Satisfaction

In answer to the demands of customers for a quick response to quotations and deliveries, we have specifically tailored our nationwide network of Super-Depot manufacturing units to the production of copper cylinders and tanks, enabling us to offer the unique benefits of no minimum order quantity and minimal delivery charges for 'one-offs'

Our promise of next day delivery on standard products and 'price within the hour, delivery within 72 hours' on a complete range of 'specials' and bespoke cylinders is well known in the trade and is the industry's assurance of receiving a quality product that is made to measure to suit their particular requirements.

To ensure a consistently high standard of copper cylinder, whichever nationwide depot that cylinder is manufactured in, Gledhill now have a dedicated training facility at the Blackpool headquarters. Here, new staff are trained in all aspects of copper brazing and forming as well as being given the technical theory behind copper cylinder manufacture.



# Storage Capacities

Direct Cylinder Capacities Shown In Litres (Reduce by 2.5% for indirect models)							
Height		Diameter					
mm	Inches	300mm (12")	350mm (14")	375mm (15")	400mm (16")	450mm (18")	500mm (20")
600	24	35	48	55	60	77	-
675	27	40	55	62	70	86	-
750	30	45	62	70	80	98	-
825	33	50	69	78	89	109	-
900	36	55	74	87	96	120	136
975	39	60	83	95	107	135	147
1050	42	65	90	103	115	144	158
1200	48	75	103	118	134	166	190
1350	54	-	-	-	-	-	227
1500	59	-	130	148	170	218	245
1800	71	118	164	180	206	277	318

A range of sizes from the table above are also available manufactured from stainless steel, please see page 4 for further details.  
Other sizes are available, please contact your local manufacturing depot for further details.

Standard Combination Cylinder Capacities			
Height (mm)	Diameter (mm)	Capacity	
		Hot (litres)	Cold (litres)
750	450	60	20
900	450	85	20
1075	450	115	20
1200	450	120	40
1400	450	145	40
1500	450	166	40
1850	450	210	40
1200	500	145	45
1500	450	166	40

# EnviroFoam Stainless

Stainless steel vented cylinder in both direct and indirect configurations

Manufactured to comply with the HWA standard for stainless steel vented cylinders, these cylinders also have strong environmental credentials including;

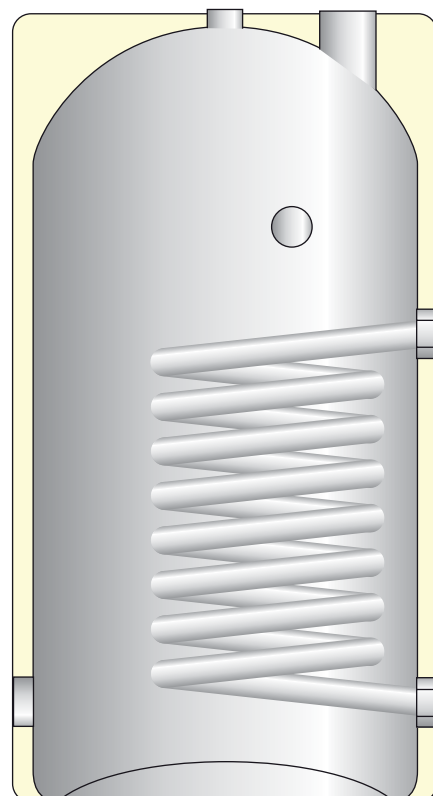
- industry leading 35mm HCFC free insulation
- exceptionally low standing heat loss, in anticipation of EUP regulations
- insulation incorporates Polyol which is derived from Rapeseed oil - a fully renewable resource, with an industry leading Global Warming Potential of 0.7
- with a Duplex stainless steel internal cylinder, the product is fully recyclable at the end of its working life

With the open vented stainless steel cylinder, you will also benefit from;

- 5 day lead time availability
- Easy access to immersion heater boss
- 400mm diameter models have 22mm compressions
- 450mm x 900mm model has 22mm compressions
- Remaining 450mm diameter models have 22mm compressions on coil and 28mm on cold feed and hot water draw off.

- 2010 Part L1b compliant
- Compression fittings
- 10 year warranty
- Duplex stainless steel
- Power shower take-off/ secondary return on most models as standard
- 100% Recyclable
- Next day delivery available

Indirect Specifications				
Gledhill Code	BS 1566 ref	Cylinder height (mm)	Cylinder diameter (mm)	Capacity (litres)
SE36X18IND	7	900	450	117
SE42X18IND	8	1050	450	140
SE48X18IND	9	1200	450	162
SE36X16IND	2	900	400	94
SE42X16IND	3	1050	400	112
Direct Specifications				
SE36X18DIR	7	900	450	120



# EnviroFoam Copper

Copper vented indirect cylinder for use with a conventional boiler

Manufactured to BS1566 and 2010 Part L1B compliant, these cylinders have strong environmental credentials including;

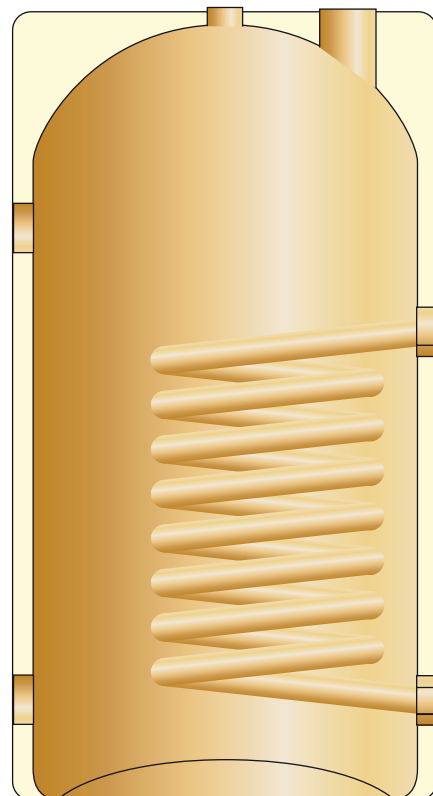
- industry leading 35mm HCFC free insulation
- exceptionally low standing heat loss, in anticipation of EUP regulations
- insulation incorporates Polyol which is derived from Rapeseed oil - a fully renewable resource, with an industry leading Global Warming Potential of 0.7
- with a copper internal cylinder, the product is fully recyclable at the end of its working life
- manufactured at 12 locations in the UK, the cylinders have a lower carbon footprint derived from transportation than is typical in the industry

- 2010 part L1b compliant
- Compression fittings
- 10 year warranty
- Low standing heat loss
- 100% recyclable
- Next day delivery available
- Secondary return is an optional extra available on larger models

As well as being the most attractive open vented copper cylinder available on the market, you will also benefit from;

- next day lead time availability
- compression fittings available
- 25 minute recovery time
- BS1566 and 2010 Part L1B compliant
- Easy access to immersion heater boss

Gledhill Code	BS 1566 ref	Cylinder height (mm)	Cylinder diameter (mm)	Capacity (litres)
BIND15	2	900	400	94
BIND16	3	1050	400	112
BIND19	4	675	450	84
BIND20	5	750	450	95
BIND21	6	825	450	106
BIND22	7	900	450	117
BIND23	8	1050	450	140
BIND24	9	1200	450	162
BIND25	9E	1500	450	213
BIND27	10	1200	500	185
BIND29	11	1500	500	239
BIND31	12	1200	600	280
BIND32	13	1500	600	360
BIND33	14	1800	600	440



# High Recovery Coils

Available for use in copper cylinders

The EnviroFoam Copper cylinders are also available with a special high performance heat exchanger, on request, which reduces boiler cycling and maximises the time the boiler can operate in condensing mode. These were previously known as our CondenCyl range.

The special coil enables recovery in only 14 minutes which conforms to CHESS best practice. The reduction in boiler cycling and faster recovery time combine to reduce the cost of producing hot water.

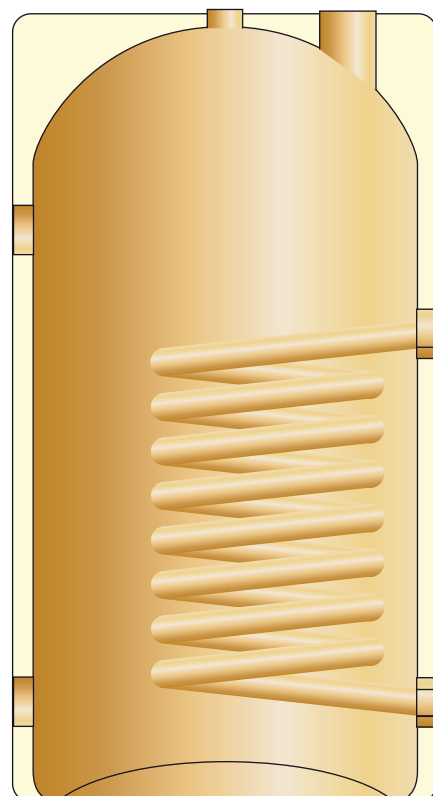
The high efficiency coil and its ability to heat only the water you require means that a smaller capacity cylinder can be used. For example, a typical 120 litre cylinder to meet Part L1B requirements would reduce to 80 litres using a high recovery coil.

Utilising the EnviroFoam insulation reduces standing losses – particularly beneficial during summer months.

Sizes shown below are indicative. High recovery coils are available on all models.

- 2010 part L1b compliant
- High recovery
- Energy saving
- For use with fully pumped systems
- Perfectly matched with condensing boilers
- 100% recyclable

Cylinder height (mm)	Cylinder diameter (mm)	Capacity (litres)
750	400	77
975	400	105
1050	400	112
900	450	117
1050	450	140



# Super Recovery Cylinders

For use where rapid recovery of the cylinder contents is required

The quick recovery cylinder has a special high performance heat exchanger which reduces boiler cycling and maximises the time the boiler can operate in condensing mode.

Its special coil enables recovery in as little as 5 minutes, assuming a correctly sized boiler is installed.

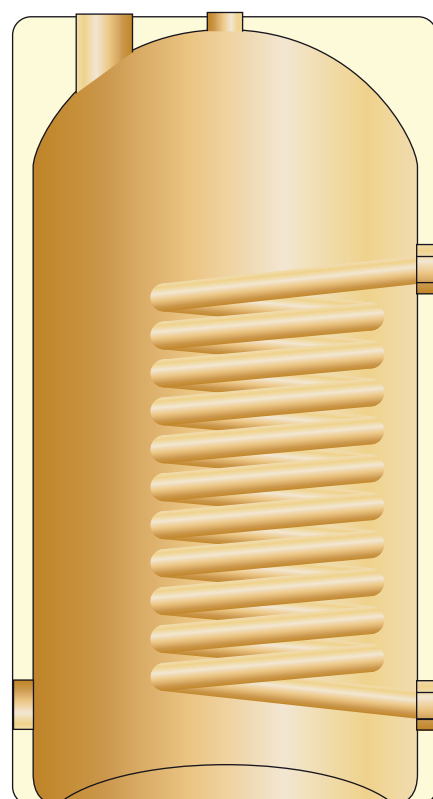
The reduction in boiler cycling and faster recovery time combine to reduce the cost of producing hot water.

The super recovery cylinders' high efficiency coil and its ability to heat only the water you require means that a smaller capacity cylinder can be used. This makes it the ideal replacement choice where space is an issue but rapid reheat times are still required.

The cylinders 35mm of high insulation EnviroFoam further reduces standing losses – particularly beneficial during summer months.

- 2010 Part L1b compliant
- Compression fittings
- 10 year warranty
- Recovery from 5 minutes
- Recovers as it is being used
- For use with fully pumped systems
- 100% Recyclable
- Next day delivery available

Super Recovery Specifications				
Gledhill Code		BIHR045	BIHR080	BIHR120
Cylinder Size (mm)		600 x 350	750 x 400	900 x 450
Cylinder Capacity (litres)		45	80	120
Recovery time in minutes to raise temp. by 40°C for different boiler outputs	9kW	11.9	21.1	31.7
	12kW	8.9	15.8	23.8
	15kW	7.1	12.7	19.0
	24kW	4.6	8.2	11.9
	30kW	3.9	6.9	9.5



# EnviroFoam Copper

## Copper vented direct cylinder

Manufactured to BS1566 and 2010 Part L1B compliant, these cylinders have strong environmental credentials including;

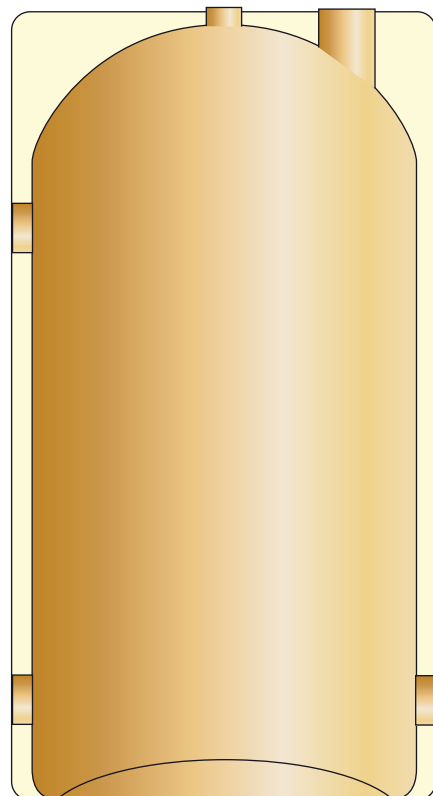
- industry leading 35mm HCFC free insulation
- exceptionally low standing heat loss, in anticipation of EUP regulations
- insulation incorporates Polyol which is derived from Rapeseed oil - a fully renewable resource, with an industry leading Global Warming Potential of 0.7
- with a copper internal cylinder, the product is fully recyclable at the end of its working life
- manufactured at 12 locations in the UK, the cylinders have a lower carbon footprint derived from transportation than is typical in the industry

- 2010 part L1b compliant
- Compression fittings available
- 10 year warranty
- Low standing heat loss
- 100% recyclable
- Next day delivery available

As well as being the most attractive open vented copper cylinder available on the market, you will also benefit from;

- next day lead time availability
- compression fittings available
- BS1566 and 2010 Part L1B compliant
- Easy access to immersion heater boss

Gledhill Code	BS 1566 ref	Cylinder height (mm)	Cylinder diameter (mm)	Capacity (litres)
BDIR14	2	900	400	96
BDIR15	3	1050	400	115
BDIR17	4	675	450	86
BDIR18	5	750	450	98
BDIR19	6	825	450	109
BDIR20	7	900	450	120
BDIR21	8	1050	450	144
BDIR22	9	1200	450	166
BDIR23	9E	1500	450	218
BDIR25	10	1200	500	190
BDIR27	11	1500	500	245
BDIR29	12	1200	600	290
BDIR30	13	1500	600	370
BDIR31	14	1800	600	450





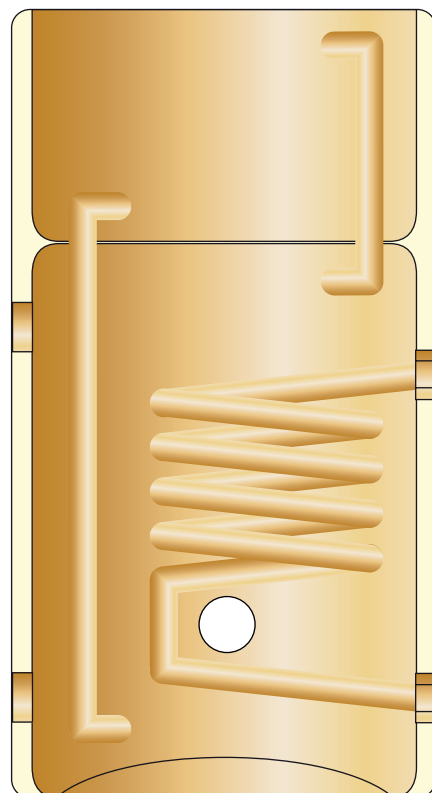
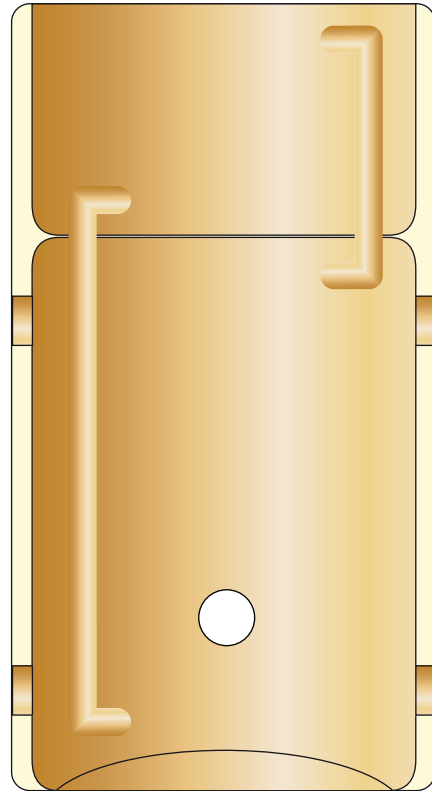
# Combination Units

Both direct and indirect configurations

The combination cylinder is specifically designed to be installed into properties without a loft space ie apartments etc. With the feed tank being incorporated into the combination unit, a separate cold water storage tank is not required, therefore installation is simplified and costs reduced.

With the combination unit, also you will also benefit from;

- next day lead time availability
- compression fittings available
- high recovery coil available
- electric only direct units
- indirect units for use with central heating systems
- BS1566 and 2010 Part L1B compliant



Direct specifications				
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Capacity hot (litres)	Capacity cold (litres)
BDCOM01	900	400	65	15
BDCOM02	1050	400	85	20
BDCOM03	900	450	85	20
BDCOM04	1050	450	115	20
BDCOM05	1200	450	115	40
BDCOM06	1400	450	144	40
BDCOM07	1500	450	166	40
BDCOM08	1800	450	210	40

Indirect specifications				
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Capacity hot (litres)	Capacity cold (litres)
BICOM01	900	400	65	15
BICOM02	1050	400	85	20
BICOM03	900	450	85	20
BICOM04	1050	450	115	20
BICOM05	1200	450	115	40
BICOM06	1400	450	144	40
BICOM07	1500	450	166	40
BICOM08	1800	450	210	40

# Economy 7 Combination

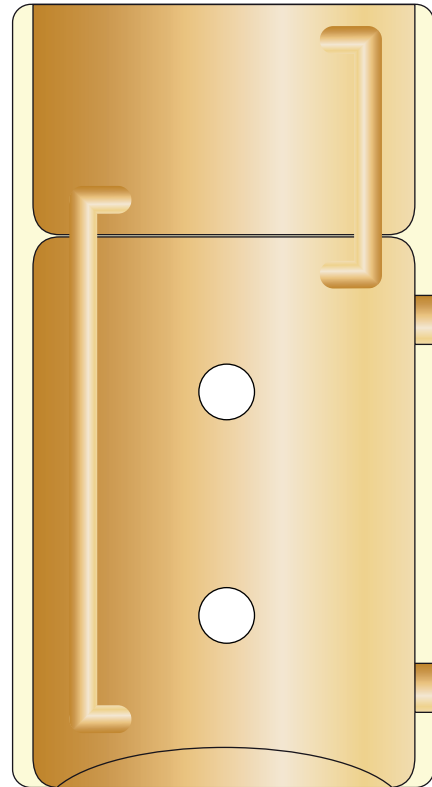
For use with electric off-peak tariffs

The Economy 7 range of domestic hot water combination cylinders have been designed to maximise the heating potential electric off-peak tariffs.

The combination cylinder is specifically designed to be installed into properties without a loft space ie apartments etc. With the feed tank being incorporated into the combination unit, a separate cold water storage tank is not required, therefore installation is simplified and costs reduced. These cylinders are available in both direct and indirect patterns.

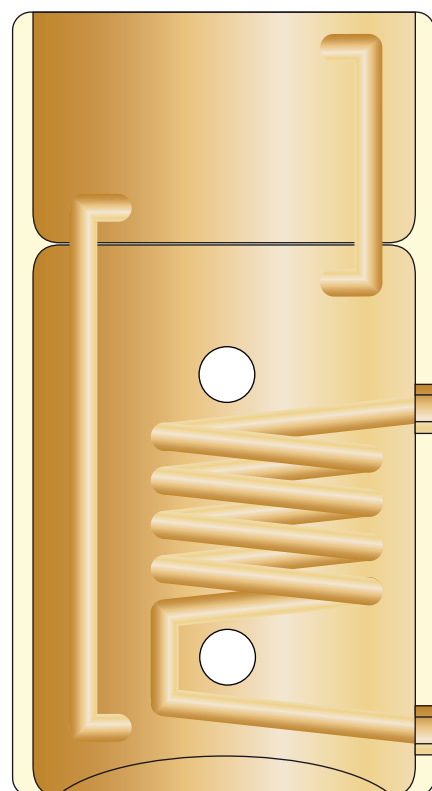
These cylinders also have other benefits including;

- 2010 part L1b compliant
- compression fittings available
- 10 year warranty
- low standing heat loss
- next day lead time availability
- Utilises either Economy 7 or Economy 10 electric tariffs



Direct specifications				
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Capacity hot (litres)	Capacity cold (litres)
BEDCT01	1200	450	120	40
BEDCT02	1400	450	144	40
BEDCT03	1500	450	166	40
BEDCT04	1800	450	210	40

Indirect specifications				
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Capacity hot (litres)	Capacity cold (litres)
BEICT01	900	400	65	15
BEICT02	900	450	85	20
BEICT03	1050	400	86	20
BEICT04	1050	450	115	20
BEICT05	1200	400	110	20
BEICT06	1200	450	120	40
BEICT07	1500	400	140	25
BEICT08	1500	450	166	40
BEICT10	1800	450	210	40



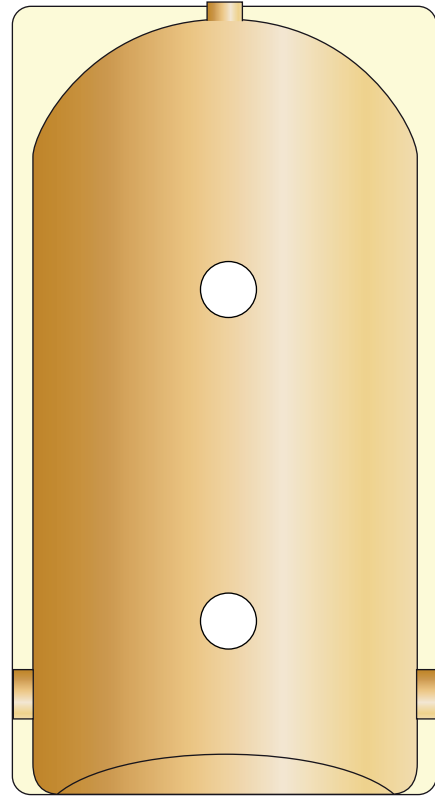
# Economy 7 Cylinders

For use with electric off-peak tariffs

The Economy 7 range of domestic hot water cylinders have been designed to maximise the heating potential electric off-peak tariffs.

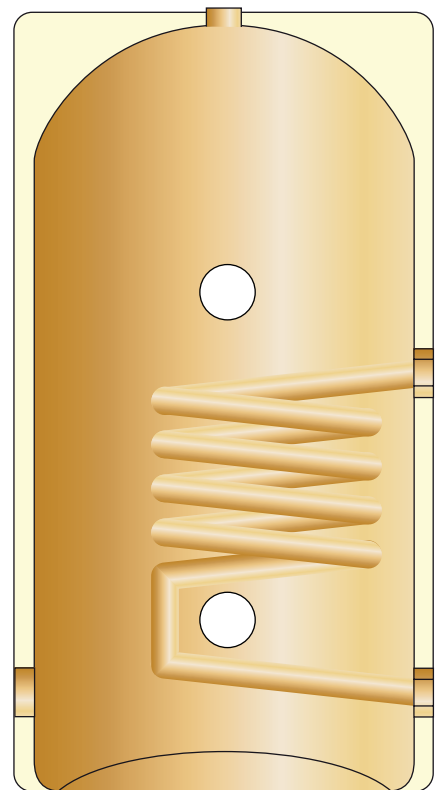
Manufactured to BS1566 and 2010 Part L1B compliant, these cylinders have strong environmental credentials including;

- industry leading 35mm HCFC free insulation
- exceptionally low standing heat loss, in anticipation of EUP regulations
- insulation incorporates Polyol which is derived from Rapeseed oil - a fully renewable resource, with an industry leading Global Warming Potential of 0.7
- with a copper internal cylinder, the product is fully recyclable at the end of its working life
- next day lead time availability
- compression fittings available
- 100% recyclable



Direct specifications			
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Capacity (litres)
BEDC01	1050	400	116
BEDC02	900	450	120
BEDC03	1050	450	144
BEDC04	1200	450	166
BEDC05	1500	450	210

Indirect specifications			
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Capacity (litres)
BEICY01	1050	400	114
BEICY02	900	450	117
BEICY03	1050	450	140
BEICY04	1200	450	162
BEICY05	1500	450	206



# Rectangular Tanks

## Direct and indirect rectangular combination tanks

The combination tanks are supplied in direct and indirect configurations. Both types of unit provide gravity hot water and can be installed at high level in a cupboard or in a roof space. The indirect model can also be used on pumped and sealed systems. There are three standard capacities shown in the table below, but other bespoke sizes are available.

The direct model is designed for use with all off-peak tariffs, the thermal properties of the HCFC free insulation ensure low energy costs to the consumer. The Direct Combination Tank ensures a fast, simple installation that will save money, time and materials, and can be supplied with two three-kilowatt immersion heaters and thermostats factory-fitted to make installation even quicker.

Even with future changes to the heating installation the Indirect Combination Tank would not require to be replaced. For example, should the heating system be changed from open vented to a sealed primary circuit it can be adapted by simply blanking off the primary cold feed and primary vent connections.

Figure 1 shows a hot water store designed for use with electric.

Figure 2 shows a hot water store designed to be used with a sealed system or it can be used with a separate F&E tank for a fully pumped system.

Please note separate cold tanks are also available on request.

Direct Specifications				
Gledhill Code	Capacity (litres)	Height (mm)	Width (mm)	Depth (mm)
BDRCT115	115	1040	410	535
BDRCT135	135	1040	460	535
BDRCT160	160	1260	400	535

Indirect Specifications				
Gledhill Code	Capacity (litres)	Height (mm)	Width (mm)	Depth (mm)
BIRCT115	115	840	535	540
BIRCT135	135	840	535	570
BIRCT160	160	840	535	660

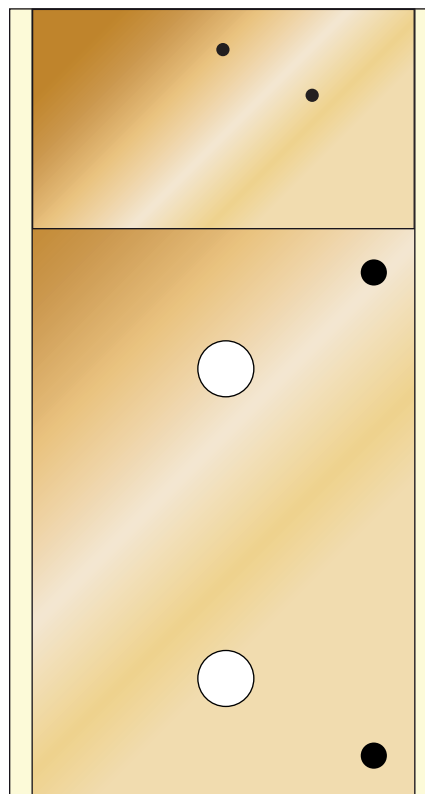


Figure 1

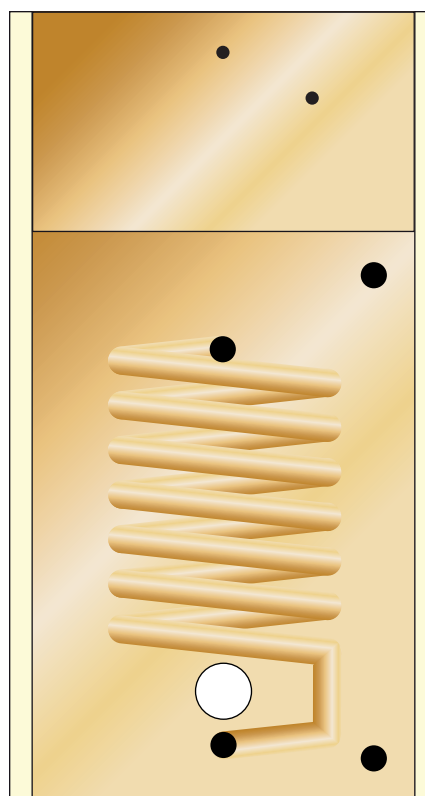


Figure 2

# Seagull

## Packaged plumbed units

A fully packaged plumbing unit, the cold water supply tank, the primary feed and expansion tank and the domestic hot water storage tank are all fully packaged in rectangular or circular formats. The minimum of installation time is required because the time wasted in making connections between remote sited tanks and the hot water storage tank has been completely removed.

Specified by local authorities and leading architects and consultants, the Seagull packaged plumbing units are designed to make the maximum use of available space. The rectangular version is particularly suitable for use in restricted areas and in roof areas where headroom is limited. Circular patterns and separate cold tanks are also available.

When using with a pumped heating system, ensure the cold feed and open vent connections comply with best practice.

Figure 3 shows a unit to be used with a gravity primary or for replacing an old gravity system with a pumped system. Two pumps will be needed. Speak to the Gledhill technical department for guidance.

Figure 4 shows a unit to be used as figure 3, but the only difference is that these units are circular.

Although a small selection of units are shown below, other sizes and positions of tappings can be specified at the time of order and compression fittings can be requested.

Rectangular Tank Hot Capacity / Dimensions				
Gledhill Code	Capacity (litres)	Length (mm)	Depth (mm)	Height (mm)
BSRCT115	114	615	465	915
BSRCT135	136	615	465	1030
BSRCT160	160	615	465	1130

Circular Tank Hot Capacity / Dimensions			
Gledhill Code	Capacity (litres)	Height (mm)	Diameter (mm)
0BSCT00006	114	1270	450
0BSCT00007	136	1270	500
0BSCT00010	180	1470	500

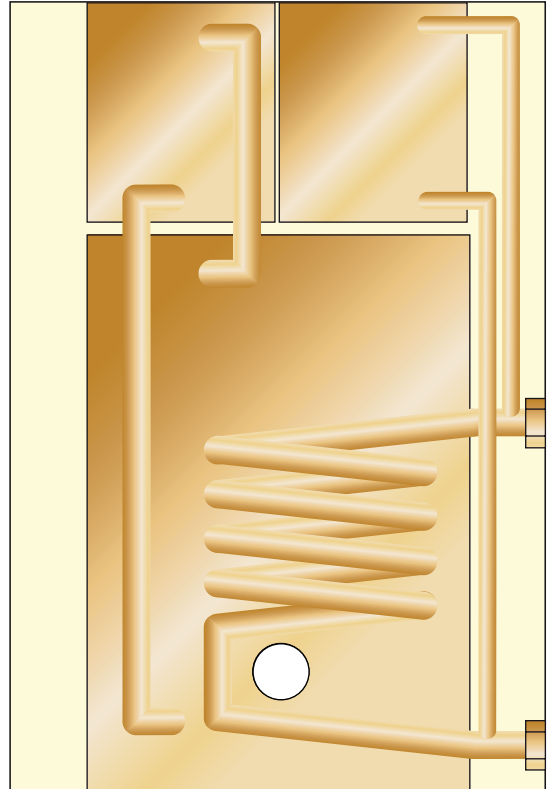


Figure 3

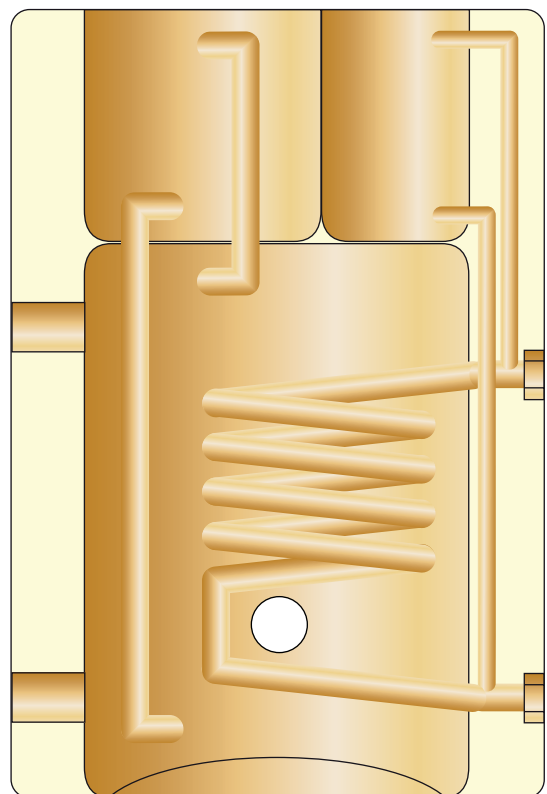


Figure 4

# 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<sup>2</sup> to 6.7m<sup>2</sup>. The surface area of the solar heat exchanger coil is designed to exceed Building Regulations requirements.

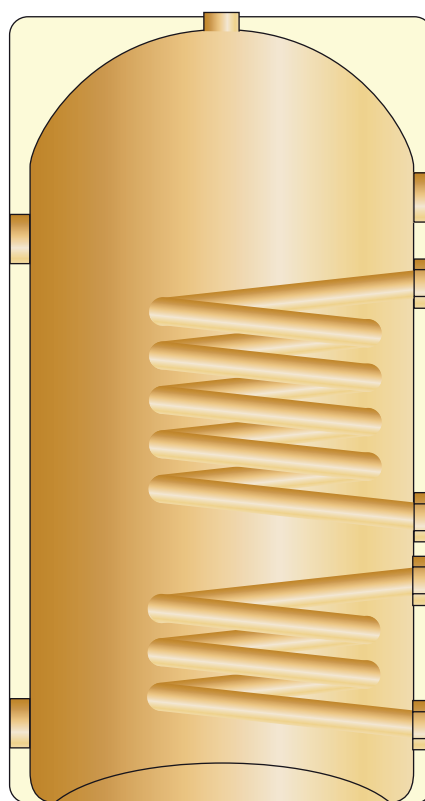
The boiler coil comes into play in the cooler months of the year as the solar input diminishes. A correctly sized cylinder will ensure enough hot water is available to the householder during these months as the dedicated solar volume will not be heated by the boiler. The boiler coil is sized appropriate 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 <sup>2</sup> )
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



# Torrent Cylinders

## The ultimate alternative energy thermal store

The Torrent MultiFuelStore is the ideal product to use as the heart of an alternative energy system as it will take energy input not only from a conventional boiler but also from a alternative energy sources such as solid fuel, solar power or air and ground source heat pumps.

If the system is configured appropriately the heat from the alternative energy source will be available for both hot water AND heating. This is only possible with a thermal store such as the Torrent and is not possible with an unvented cylinder where you will only get an alternative energy contribution to the hot water.

The Torrent range is Building Regulations Part L1 compliant for both new build and refurbishment projects. It is also fully compliant with the Hot Water Association (HWA) Performance Specification for Thermal Stores.

### Why use a thermal store

Alternative energy fuel sources are typically low grade, inherently unpredictable and are often available in plentiful supply but not when the heat energy is needed! A thermal store provides the means to harness the energy when it is available for later conversion into both hot water AND heating.

Being open vented, they provide a simple and inherently safe way to produce high-performance mains pressure hot water. So the householder can enjoy the comfort and luxury of a mains pressure system produced from alternative energy sources.

### In-built upgrade potential

The Torrent range comes with a full array of tappings as standard so that, for example, a wood burning stove or solar panels can be added as an upgrade to the property at a later stage and the hot water cylinder will be ready to work with it.

### Environmental credentials throughout

The Torrent range is manufactured from copper, a fully recyclable resource, and made at one of our nationwide network of super depot manufacturing units local to the



customer, meaning we are not shipping a heavy cylinder full of fresh air half way around the country! We think this makes perfect environmental sense and makes the Torrent the lowest carbon-footprint alternative energy cylinder available in the UK. They are also fully recyclable at the end of their extensive working life. In addition, where a copper cylinder is being replaced as part of the installation of a Torrent we are willing to take it back and provide a credit for the scrap copper which will then be recycled.

### Simple installation

As each product in the Torrent range is open vented there is no requirement for an unvented pressure and temperature relief discharge and the installer does not need to be specially qualified to fit it.

For further information on the Torrent range of cylinders, please refer to the Torrent brochure and installation manual which can both be downloaded from [www.gledhill.net](http://www.gledhill.net).

# Twin Coiled Cylinder

For use with two heat sources ie. solid fuel and conventional boiler

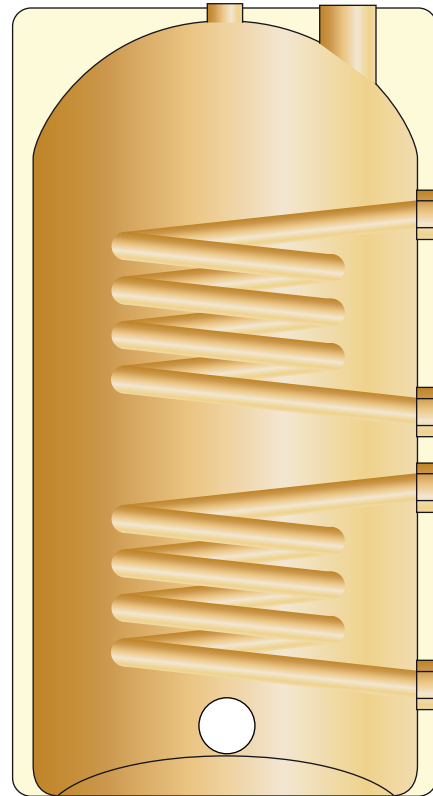
The twin coil cylinders are designed to be used with two heat sources, including uncontrolled heat sources such as solid fuel (Aga) alongside a conventional gas or electric boiler.

To boost the efficiency, an optional high recovery coil is available.

The cylinders are available in all three grades, which needs to be specified at the time of ordering, and are available in bespoke size and specifications.

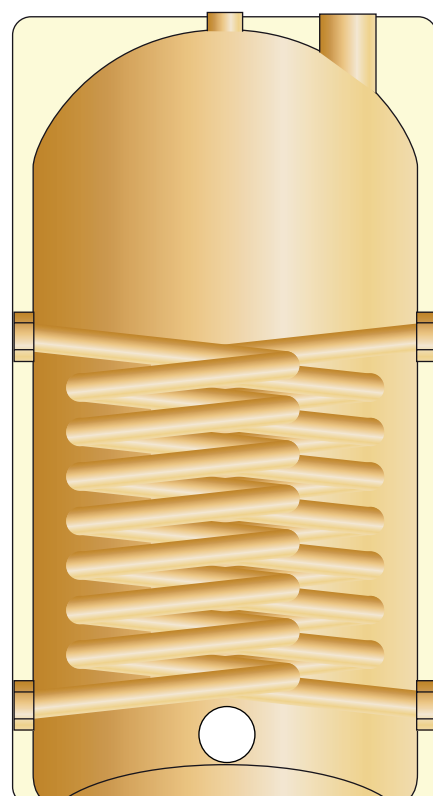
All the cylinders are 2010 part L1B compliant and come with a 10 year warranty.

Compression fittings are available on these cylinders, but will need to be specified when ordering.



Stacked Coil Pattern			
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Heating surface (m <sup>2</sup> ) Boiler / Solid Fuel
BCTI003	1200	450	0.502 / 0.480
BCTI004	1500	450	0.717 / 0.480
BCTI005	1800	450	0.932 / 0.610

Interlocked Coil Pattern			
Gledhill Code	Cylinder height (mm)	Cylinder diameter (mm)	Heating surface (m <sup>2</sup> ) Boiler / Solid Fuel
BCTI001	900	450	0.502 / 0.480
BCTI002	1050	450	0.573 / 0.480
BCTI003	1200	450	0.645 / 0.480
BCTI004	1500	450	0.932 / 0.480
BCTI005	1800	450	1.290 / 0.610





# Horizontal Cylinder

For use where installation location height is restricted

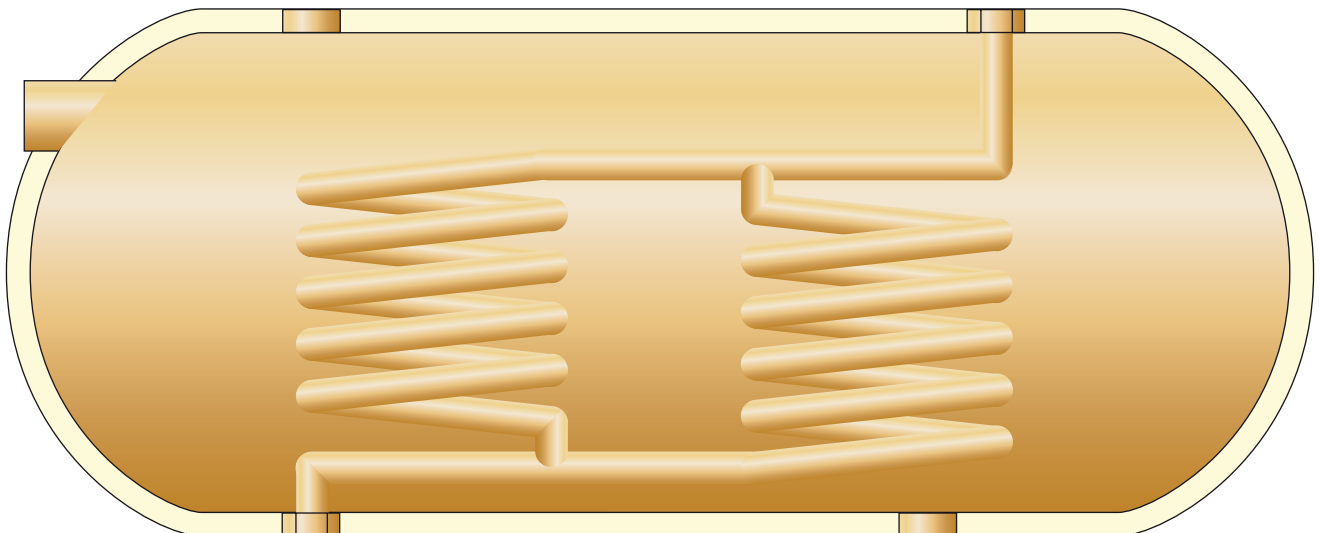
Where the height of a room restricts the installation of a standard cylinder, then a horizontal cylinder may well be the answer. These are particularly suited to confined loft spaces and are available either as direct or indirect, which can also be supplied with support cradles.

These units provide a highly effective and efficient means of providing and storing hot water where headroom is at a premium.

The cylinders are available in grades 1, 2 and 3, which needs to be specified at the time of ordering.

A twin coil configuration can be specified when ordering, to utilise solar power or a solid fuel boiler in conjunction with a conventional boiler.

- 2010 part L1b compliant
- Suitable for gravity or pumped systems
- 10 year warranty
- Available with twin coil
- 100% recyclable
- Compression fittings available



# Commercial Cylinders

## Cylinders and calorifiers for commercial and industrial uses

Gledhill manufacture a complete range of cylinders and calorifiers for commercial and industrial applications.

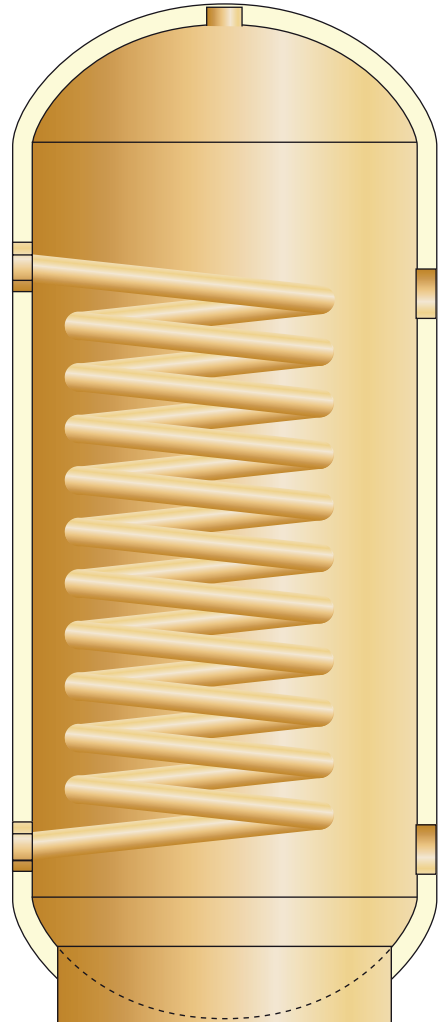
Calorifiers are available as standard patterns, horizontal or vertical or high performance 'Heatspeed' types. All are manufactured from copper, long recognised as the best material for water storage vessels giving the longest life.

The direct pattern is ideal where the only heatsource is electricity, although these can also be made to incorporate a solar coil where a solar input is also available.

The indirect patterns as either 1 or 2 hour recovery as standard, but can be specified for a 30 minute recovery when ordering. These can also be used with solar or solid fuel inputs. Extra tappings or coils are also available to run underfloor heating from.

Capacities range up to 1000 litres and products are individually made to order to accommodate connections and heat exchangers to suit individual applications.

A full range of extras including bolted heads, inspection ports, hand holes and cradles are available if required. Systems with high draw rate potential over extended periods are best served by units with high recovery capability and moderate storage capacity for balancing purposes.



Indirect Calorifier Specifications				
Size (mm)	Nominal (litres)	30 minute recovery coil surface area (m <sup>2</sup> )	60 minute recovery coil surface area (m <sup>2</sup> )	Working head (m)
1200 x 600	280	1.14	0.86	10, 15, 18.5, 31
1475 x 600	356	1.4	1.05	10, 15, 18.5, 31
1475 x 685	450	1.78	1.33	10, 15, 18.5, 24
1830 x 600	450	1.78	1.33	10, 15, 18.5, 27
1675 x 685	522	2.04	1.53	10, 15, 18.5, 24
1625 x 760	659	2.43	1.82	10, 18.5
1830 x 760	750	2.78	2.08	10, 18.5
2135 x 760	900	3.28	2.46	10, 18.5

# HeatSpeed Cylinders

Quick recovery cylinders and calorifiers for commercial and industrial uses

The Heatspeed calorifiers have very high efficiency heat exchange elements and are designed with energy conservation very much in mind. They have a smaller storage capacity than conventional calorifiers yet can offer larger volumes of hot water per hour. Heatspeed calorifiers are only available in the vertical format.

Their main features are:

- Considerable saving in floor space.
- Lower standing losses because less water is being stored.
- Greater boiler efficiency because the heat exchanger can absorb more of the boiler output thus reducing cycling with its attendant efficiency losses, particularly in the summer months.
- Reduction in capital costs.

The Heatspeed range of calorifiers is designed to recover their contents from 10°C to 65°C three times in an hour with primary water at 82°C flow temperatures under pumped circulation.

Compared to the Commercial range of cylinders are designed to recover their contents from 10°C to 65°C in one or two hours with primary water flow at 82°C under gravity circulation and 1/2 or 1 hour under pumped conditions.

Although in many situations the advantages inherent in a semi-storage high output calorifier will be paramount, there will be situations in which very large storage capability is a necessity. For instance, where large quantities of water are required on an intermittent basis and are called off in a very short period of time, typically 20 minutes or less, i.e. at the end of a factory shift or in certain types of process work. In these circumstances we recommend a Commercial pattern calorifier with a 2, 3 or 4 hour recovery heat exchanger.

Your regional Gledhill manufacturing centre will be able to assist in the sizing and specification of these cylinders to ensure that the hot water demands are satisfied.

HeatSpeed Specifications				
Model	Storage Capacity		Continuous secondary flow rate @55°C (litres/hr)	Recovery time (minutes)
	Nominal (litres)	Actual (mm)		
HS66	320	300	1788	20
HS83	385	377	2156	20
HS103	468	450	2556	20
HS104	473	450	2556	20
HS121	570	550	3125	20
HS146	680	664	3841	20
HS168	800	764	4543	20
HS197	910	896	5106	20
HS217	1000	986	5675	20

# Copper Specials

Copper cylinders incorporating a high recovery coil

Gledhill Building Products is well known in the industry for our capability to produce copper cylinders to a custom specification, ie tapping heights, connection sizes and positions etc.

The versatility of copper makes it the only choice of material to produce bespoke, tailor-made cylinders that can be manufactured in a fast turnaround time which has led to high demand, particularly for bespoke orders and one-off specials that can be custom-made in just a matter of hours.

Gledhill maintains a coppersmith team at each of its 12 Super Depots nationwide and, thanks to a dedicated training department, Gledhill's coppersmiths are experts

in all aspects of copper brazing, copper forming and the technical theory behind copper cylinder manufacture.

The buoyant demand for copper specials comes from a wide range of installations; from matching the exact spec of an old domestic cylinder that needs replacing to creating a horizontal boiler to fit into the confined space of an attic. Sizes can range from a 45-litre cylinder for use on pleasure boats, to a 960-litre industrial-sized model for use in commercial premises.

These cylinders are all manufactured in compliance with BS1566 and comply with 2010 Part L1B Building Regulations Replacement Cylinder requirements.



# 1

Simply complete the cylinder specials form at the merchant, on the following pages or download from our website and ask your local plumbers merchant send to your local Gledhill depot.



# 2

Once you have received your quote within one hour, the cylinder is then locally produced in one of our nationwide Super Depots.



# 3

The finished cylinder can either be delivered to the merchant or direct to site.

# Special Order ...

Installer Name: \_\_\_\_\_

Company: \_\_\_\_\_

Phone No: \_\_\_\_\_

Merchant: \_\_\_\_\_

Phone No: \_\_\_\_\_

Size: \_\_\_\_\_

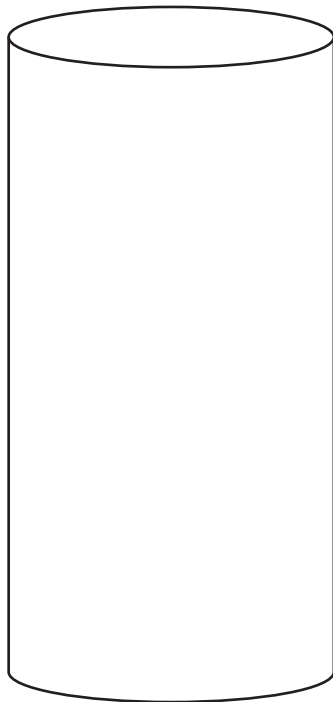
## Tapping Positions

Please show size and position of bosses and floor to centre measurements if critical.

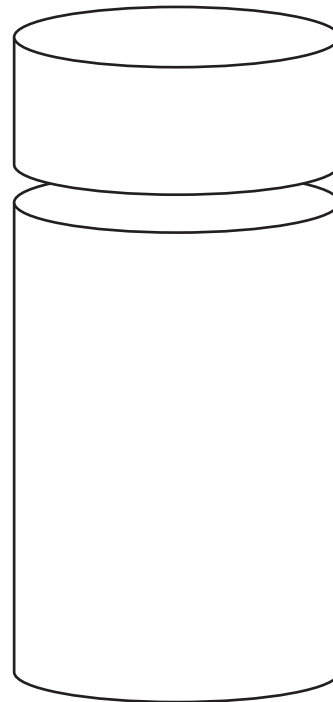
Don't forget Shower Take-Offs, Drain Connections and Secondary Returns can be factory fitted!

15, 22, 28 compression with nut & olive or 1/2" up to 2" screwed connections

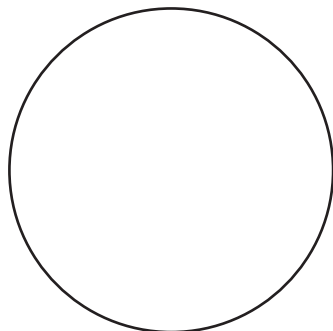
**CYLINDER**



**COMBINATION TANK**



**PLAN VIEW**



Additional Details \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

WORKING HEAD	
<input type="checkbox"/>	10m
<input type="checkbox"/>	15m
<input type="checkbox"/>	25m
<input type="checkbox"/>	31m

TYPE	
<input type="checkbox"/>	Direct
<input type="checkbox"/>	Indirect
<input type="checkbox"/>	Automatic
<input type="checkbox"/>	Solar Sunspeed

INSULATION	
<input type="checkbox"/>	35mm EnviroFoam
<input type="checkbox"/>	60mm Flexilag
<input type="checkbox"/>	Steelace
<input type="checkbox"/>	Plain

# Special Order ...

Installer Name: \_\_\_\_\_

Company: \_\_\_\_\_

Phone No: \_\_\_\_\_

Merchant: \_\_\_\_\_

Phone No: \_\_\_\_\_

Size: \_\_\_\_\_

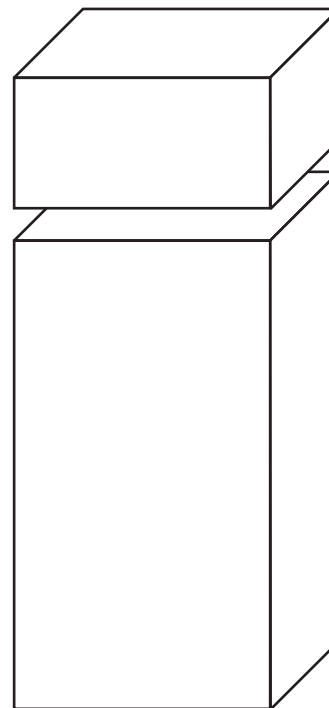
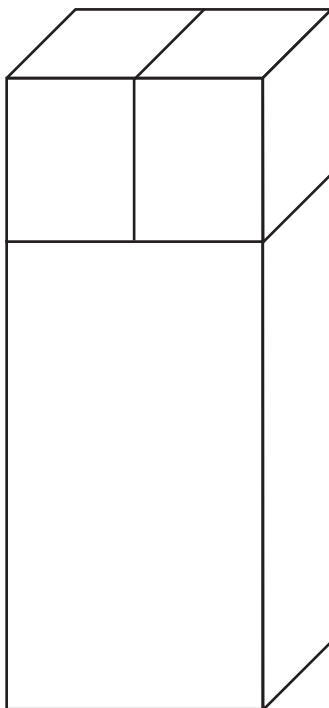
## Tapping Positions

Please show size and position of bosses and floor to centre measurements if critical.

Don't forget Shower Take-Offs, Drain Connections and Secondary Returns can be factory fitted!

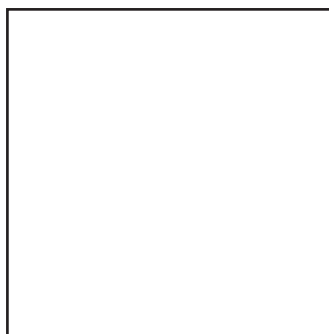
15, 22, 28 compression with nut & olive or 1/2" up to 2" screwed connections

**SEAGULL**



**COMBINATION TANK**

**PLAN VIEW**



Additional Details \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TYPE	
<input type="checkbox"/>	Direct
<input type="checkbox"/>	Indirect
<input type="checkbox"/>	Pre-Plumbed
<input type="checkbox"/>	Central Plant

TYPE	
<input type="checkbox"/>	Gravity Fed
<input type="checkbox"/>	Electric Thermal Store
<input type="checkbox"/>	Automatic
<input type="checkbox"/>	

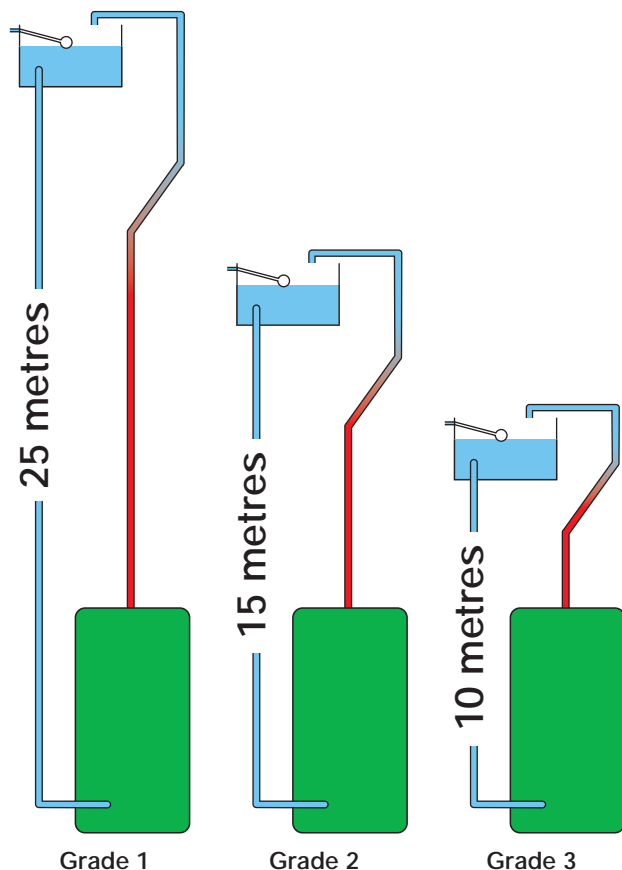
Material	
<input type="checkbox"/>	Copper
<input type="checkbox"/>	Steelace
<input type="checkbox"/>	
<input type="checkbox"/>	

# Other Considerations

What else do you need to consider when ordering a Gledhill cylinder?

## Grades of cylinder

There are three 'Grades' of vented cylinder G1, G2, G3 all are built to the same manufacturing standard, the principle difference between the three grades is the gauge of the copper sheet used. To determine the grade required measure the distance from the waterline in the header (or feed and expansion) tank serving the cylinder and the base of the cylinder. This measurement is known as the 'working head' and determines the grade of cylinder to be used.



### Grade 1

For a working head of up to 25 metres (2.5bar pressure)

### Grade 2

For a working head of up to 15 metres (1.5 bar pressure)

### Grade 3

For a working head of up to 10 metres (1.0 bar pressure)

## Gravity coil

When ordering your Gledhill cylinder, you would need to specify if it requires a gravity coil. This is where the circulation of the hot water circulation is attained by using the natural convection current rather than by the use of a circulation pump to 'force' the water around the system.

The main difference in the cylinder design between a pumped and gravity circulation system is that the connections/coils are larger in the gravity systems to provide less resistance and increase the flow rate.

## Oil boilers

There are numerous traditional ways to heat water within a cylinder including gas boilers and solar panels to name just two, but oil fuels some of the most efficient boilers available. With that in mind, Gledhill have cylinders that are suitable for use with oil burners, which are now becoming increasingly common.

# UK Super Depot Infrastructure

**Blackpool**  
Head Office and  
Stainless Steel Manufacturing Site

**Blackburn**  
Depot Manager: Daniel Wilson  
Tel: 01254 693844 Fax: 01254 673615

**Bristol**  
Depot Manager: Paul Holbrook  
Tel: 01275 810699 Fax: 01275 810698

**Dudley**  
Depot Manager: John Parton  
Tel: 01384 636245 Fax: 01384 413700

**Hemel Hempstead**  
Depot Manager: Terry Cooper-Haime  
Tel: 01442 862233 Fax: 01442 862234

**Huntingdon**  
Depot Manager: Fraser Watt  
Tel: 01480 415980 Fax: 01480 413331

**Inverkeithing**  
Depot Manager: Stuart Watt  
Tel: 01383 414133 Fax: 01383 413123



**Liverpool**  
Depot Manager: Craig Dixon  
Tel: 0151 227 1574 Fax: 0151 236 0898

**Maidstone**  
Depot Manager: Mark Tipping  
Tel: 01622 714770 Fax: 01622 882286

**Nottingham**  
Depot Manager: Marc Causer  
Tel: 01773 580684 Fax: 01773 581129

**Paignton**  
Depot Manager: Paul Nelis  
Tel: 01803 557470 Fax: 01803 559213

**Reading**  
Depot Manager: Aaron Cain  
Tel: 01189 669990 Fax: 01189 669696

**Southampton**  
Depot Manager: Rob Gunning  
Tel: 01329 846601 Fax: 01329 845881

**For technical advice call  
01253 474584**

**SUPPLIERS TO THE MERCHANT TRADE FOR OVER 35 YEARS**



## Gledhill Building Products Limited

Sycamore Estate, Squires Gate, Blackpool FY4 3RL Tel: 01253 474550 Fax: 01253 474551 sales@gledhill.net

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.