

DHW cylinders **VITOCELL**





DHW convenience for every demand

The demand for hot water varies considerably from household to household. The number of occupants has to be taken into account, as well as their bathing and showering habits. For example, if three members of a family set off for work and school at the same time, lots of hot water needs to be continuously available for the shower in a short space of time.

Those who prefer a bath will also want to have enough hot water to fill the tub. The DHW cylinder should also be able to provide sufficient water if hot water is drawn from more than one outlet at the same time, in apartment blocks for example.

Vitocell DHW cylinders fulfil these requirements in every respect and can also meet every aspiration where equipment levels are concerned. In all instances, the installation of a solar thermal system is recommended to save energy and heat the water without cost.

Introduction



In the Vitocell cylinder range, you'll find exactly the right DHW cylinder for your requirements. Depending on your DHW demand and the installation conditions, you can choose a DHW cylinder for installation adjacent to or below the boiler.

Hygienic DHW provision

The quality of the inner surface of the DHW cylinder is crucial to providing DHW hygienically. For this reason, Viessmann relies on two high quality materials: Ceraprotect enamel coating for safe, lasting protection against corrosion in the Vitocell 100 product range and stainless steel in the Vitocell 300 range for the highest of hygiene requirements.

The indirect coils inside Vitocell DHW cylinders reach right down to the cylinder floor. This enables them to heat the entire water content and make particularly economical use of the full cylinder capacity.

Vitocell 300 made from stainless steel

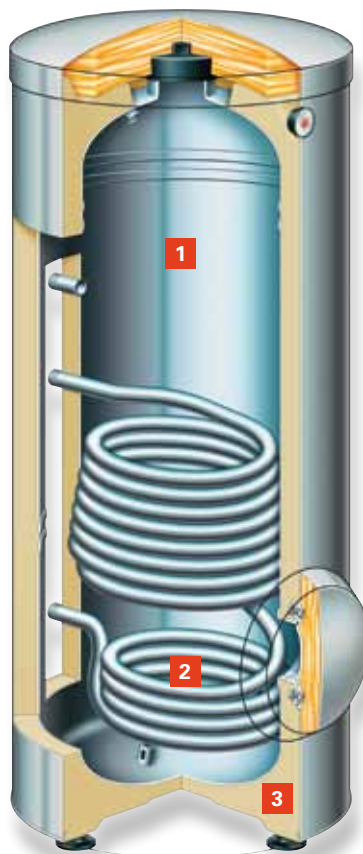
Vitocell 300 DHW cylinders, made from corrosion-resistant stainless steel, meet some of the most stringent hygiene standards. Stainless steel is used in kitchens, laboratories, hospitals and the food processing industry for good reason, as it offers excellent hygienic properties. Its homogeneous surface retains its characteristics even after many years of use.

Vitocell 100 with Ceraprotect enamel coating

The Vitocell 100, with Ceraprotect enamel coating, meets all requirements for convenient, economic DHW heating and is amongst the top selling enamelled DHW cylinders. The Ceraprotect enamel coating provides the DHW cylinder with secure and lasting protection against corrosion.

Take advantage of these benefits:

- Vitocell 300 made from stainless steel.
Capacity: 130 to 500 litres
- Dual mode and multi mode DHW cylinders for the integration of solar thermal systems for DHW heating and central heating backup
- Vitocell 100 with Ceraprotect enamel coating. Capacity: 120 to 1000 litres
- Internal indirect coil reaching right to the cylinder floor heats the entire water content
- Low heat losses through highly effective thermal insulation



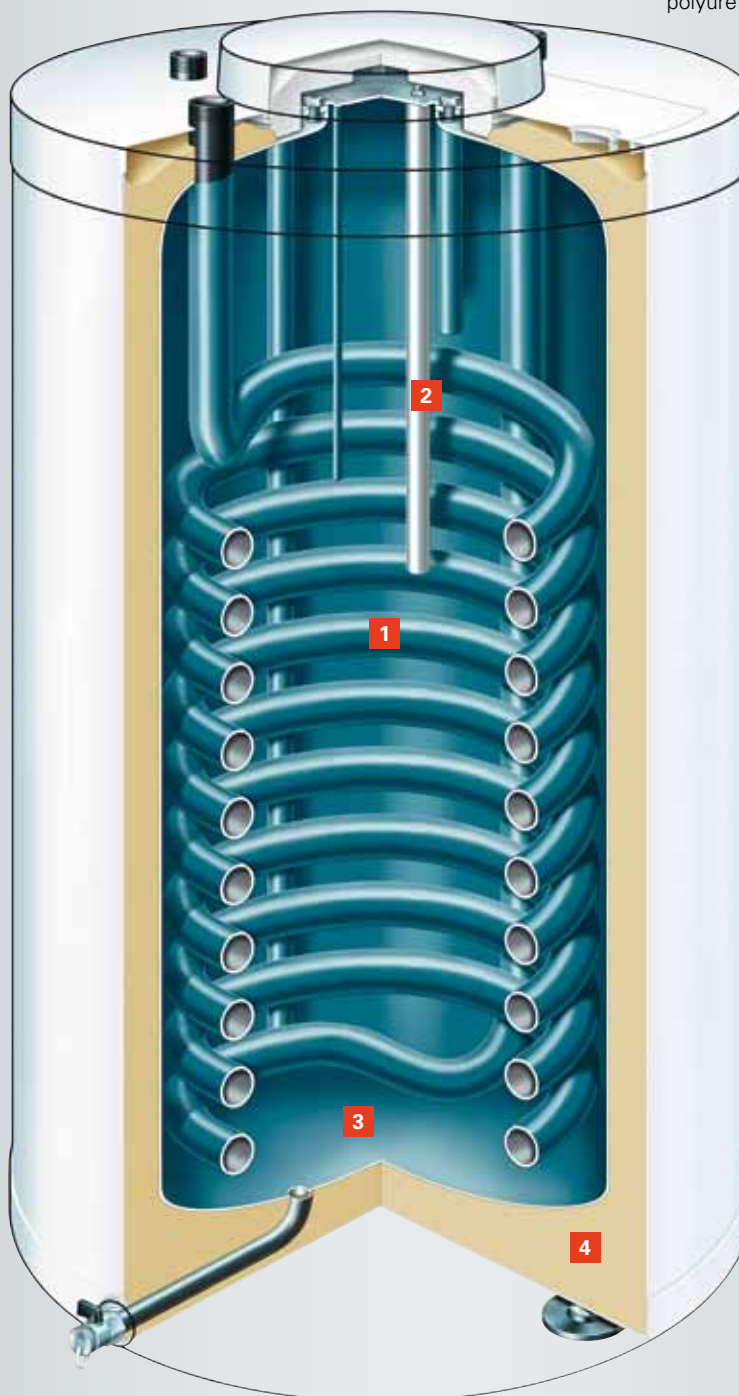
Vitocell 300-V

- 1 Vitocell 300-V made from stainless steel
Capacity: 130 to 500 litres
- 2 Internal indirect coil reaching right to the cylinder floor heats up the entire water content
- 3 Low heat losses through highly effective thermal insulation

Vitocell 100-W
Vitocell 300-W

DHW cylinders
for wall mounted boilers

- 1** Cylinder and internal indirect coil made of steel, with Ceraprotect enamel coating
- 2** Magnesium or impressed current anode
- 3** Internal indirect coil reaching right down to the cylinder floor heats the entire water content
- 4** Highly effective all-round thermal insulation made from rigid polyurethane foam



Vitocell 100-W
(type CUG)



VITOCELL 100-W

Cylinder capacity	litres	120	150			
Total dimensions						
Length ø	mm	553	596			
Width	mm	625	670			
Height	mm	904	932			
Total weight	kg	72	85			
Permissible operating pressure on the heating water side	bar	10	10			



VITOCELL 100-W

Cylinder capacity	litres	160	200	300	300 ¹⁾	400 ¹⁾
Total dimensions						
Length ø	mm	581	581	633	633	859
Length ø (excl. thermal insulation)	mm	–	–	–	–	650
Width	mm	608	608	705	705	923
Height	mm	1189	1409	1746	1746	1624
Total weight	kg	86	97	151	160	167
Permissible operating pressure on the heating water side	bar	25	25	25	10	10

¹⁾ Dual mode



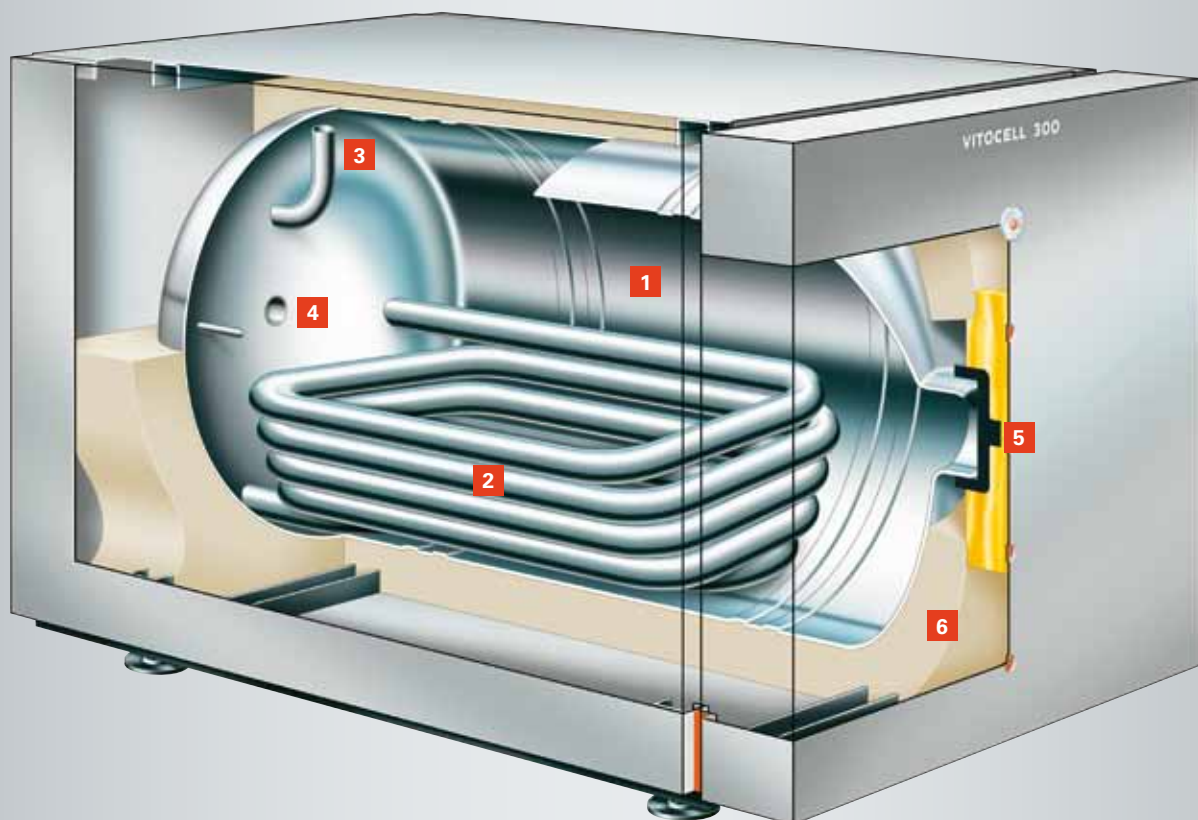
VITOCELL 300-W

Cylinder capacity	litres	160	200			
Total dimensions						
Length ø	mm	633	633			
Width	mm	667	667			
Height	mm	1203	1423			
Total weight	kg	84	98			
Permissible operating pressure on the heating water side	bar	3	3			

Vitocell 100-H
Vitocell 300-H

DHW cylinders
(horizontal)

- 1 High grade stainless steel cylinder
- 2 Stainless steel internal indirect coil reaching right to the cylinder floor heats the entire water content
- 3 DHW connection
- 4 DHW circulation connection
- 5 Inspection and cleaning aperture
- 6 Highly effective all-round thermal insulation made from rigid polyurethane foam



Vitocell 300-H
(type EHA)



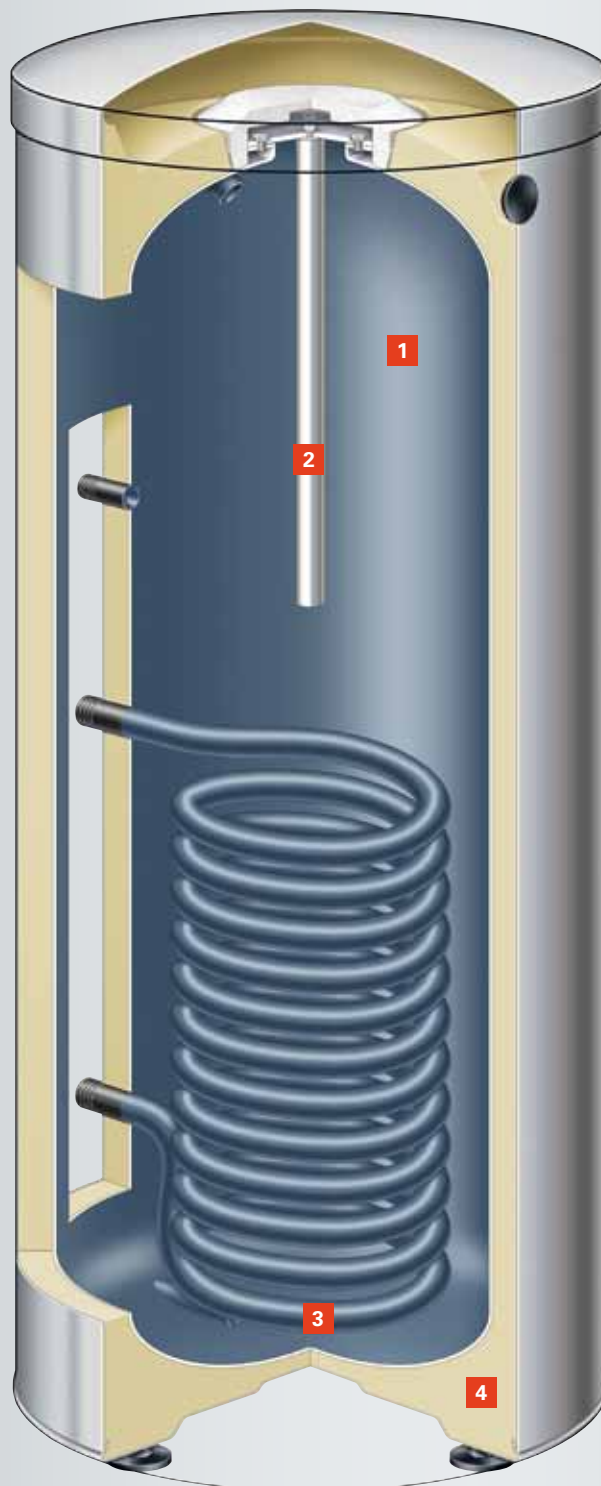
VITOCELL 100-H

Cylinder capacity	litres	130	160	200
Total dimensions				
Length	mm	907	1052	1216
Width	mm	640	640	640
Height	mm	654	654	654
Total weight	kg	90	103	116
Permissible operating pressure on the heating water side	bar	10	10	10



VITOCELL 300-H

Cylinder capacity	litres	160	200	350	500
Total dimensions					
Length	mm	1072	1236	1590	1654
Width	mm	640	640	830	910
Height	mm	654	654	786	886
Total weight	kg	76	84	172	191
Permissible operating pressure on the heating water side	bar	25	25	25	25



- 1** Cylinder and internal indirect coil made of steel, with Ceraprotect enamel coating
- 2** Magnesium or impressed current anode
- 3** Internal indirect coil reaching right down to the cylinder floor heats the entire water content
- 4** Highly effective all-round thermal insulation made from rigid polyurethane foam

Vitocell 100-V
(type CVA, 160 litres cylinder capacity)



Cylinder capacity	litres	160	200	300
Total dimensions				
Length ø	mm	581	581	633
Width	mm	608	608	705
Height	mm	1189	1409	1746
Total weight	kg	86	97	151
Permissible operating pressure on the heating water side	bar	25	25	25

160 and 200 litre capacity without flanged aperture; 300 litre capacity with flanged aperture

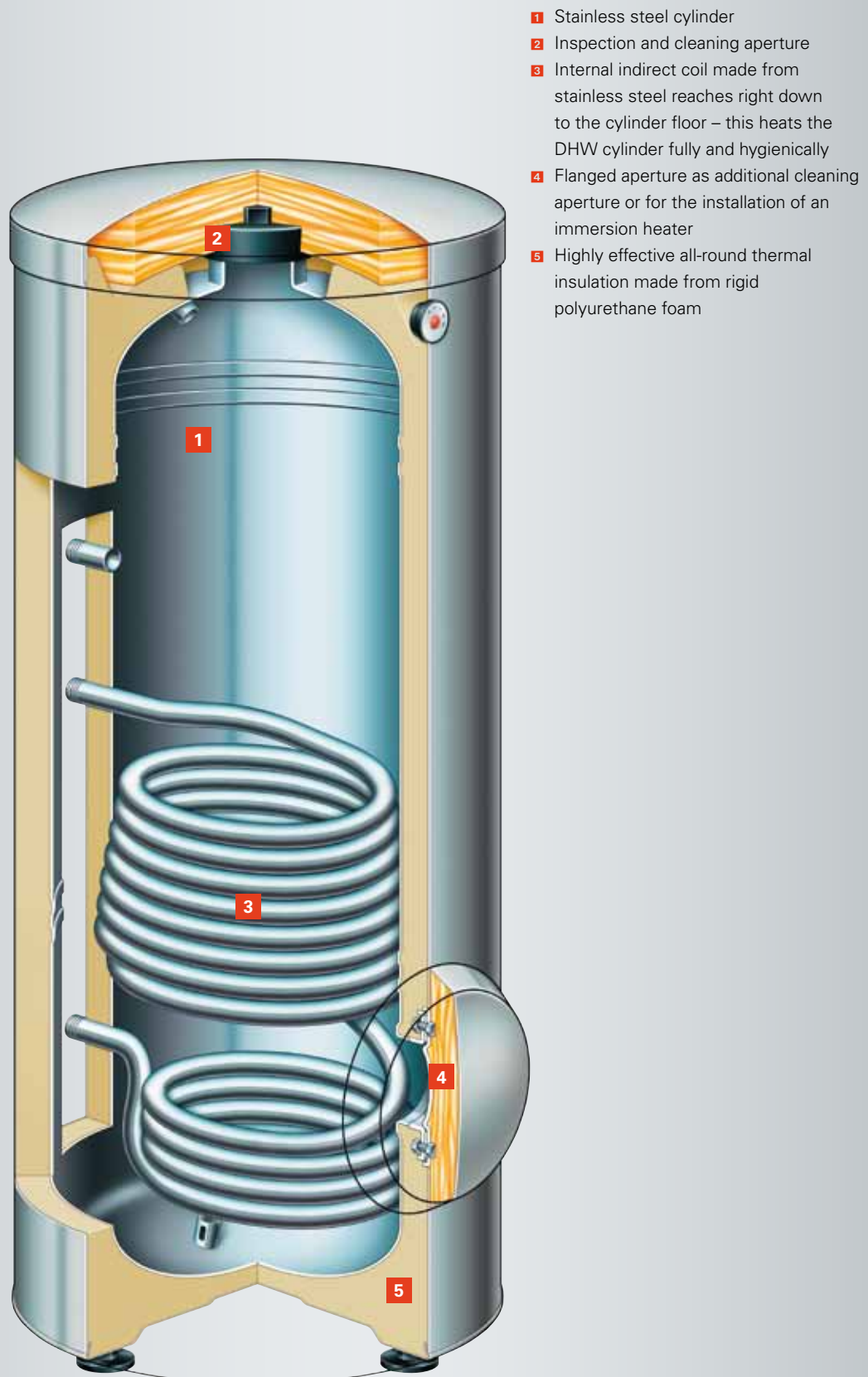


Cylinder capacity	litres	390		
Total dimensions				
Length ø	mm	859		
Length ø (excl. thermal insulation)	mm	650		
Width	mm	923		
Height	mm	1624		
Total weight	kg	190		
Permissible operating pressure on the heating water side	bar	10		

For use with Vitocal heat pumps



Cylinder capacity	litres	500	750	1000
Total dimensions				
Length ø	mm	859	960	1060
Length ø (excl. thermal insulation)	mm	650	750	850
Width	mm	923	1045	1145
Height	mm	1948	2106	2166
Total weight	kg	181	295	367
Permissible operating pressure on the heating water side	bar	25	25	25



Vitocell 300-V
(type EVI, 200 and 300 litre cylinder capacity, with flanged aperture)



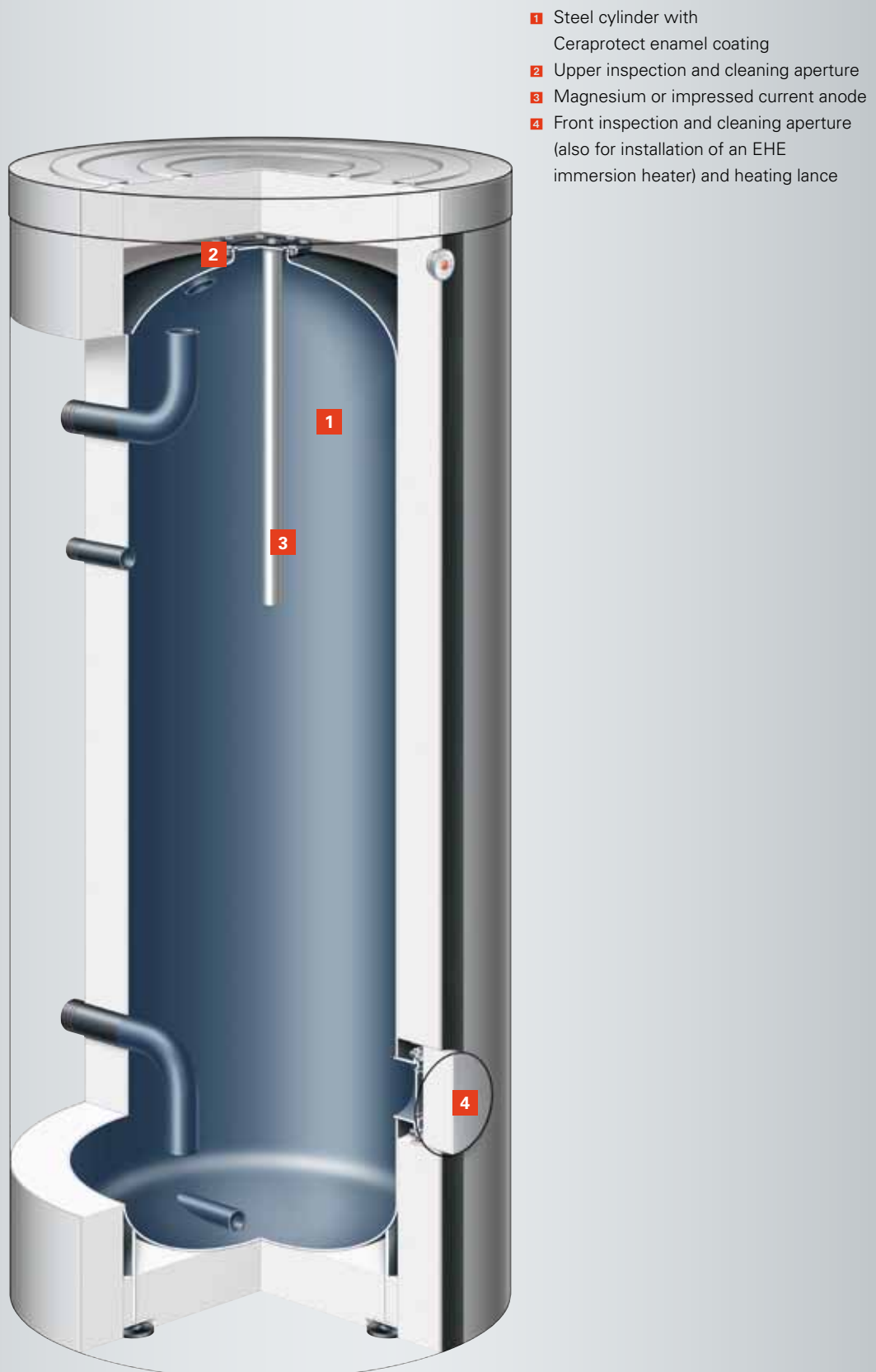
Cylinder capacity	litres	130	160	200
Total dimensions				
Length ø	mm	633	633	633
Width	mm	667	667	667
Height	mm	1111	1203	1423
Total weight	kg	77	84	98
Permissible operating pressure on the heating water side	bar	3	3	3



Cylinder capacity	litres	200	300	
Total dimensions				
Length ø	mm	581	633	
Width	mm	649	704	
Height	mm	1420	1779	
Total weight	kg	76	100	
Permissible operating pressure on the heating water side	bar	25	25	



Cylinder capacity	litres	500		
Total dimensions				
Length ø	mm	925		
Length ø (excl. thermal insulation)	mm	715		
Width	mm	975		
Height	mm	1738		
Total weight	kg	111		
Permissible operating pressure on the heating water side	bar	25		



Vitocell 100-L
(type CVL, 500 litre capacity)



Cylinder capacity	litres	500	
Total dimensions			
Length ø	mm	859	
Length ø (excl. thermal insulation)	mm	650	
Width	mm	923	
Height	mm	1948	
Total weight	kg	156	

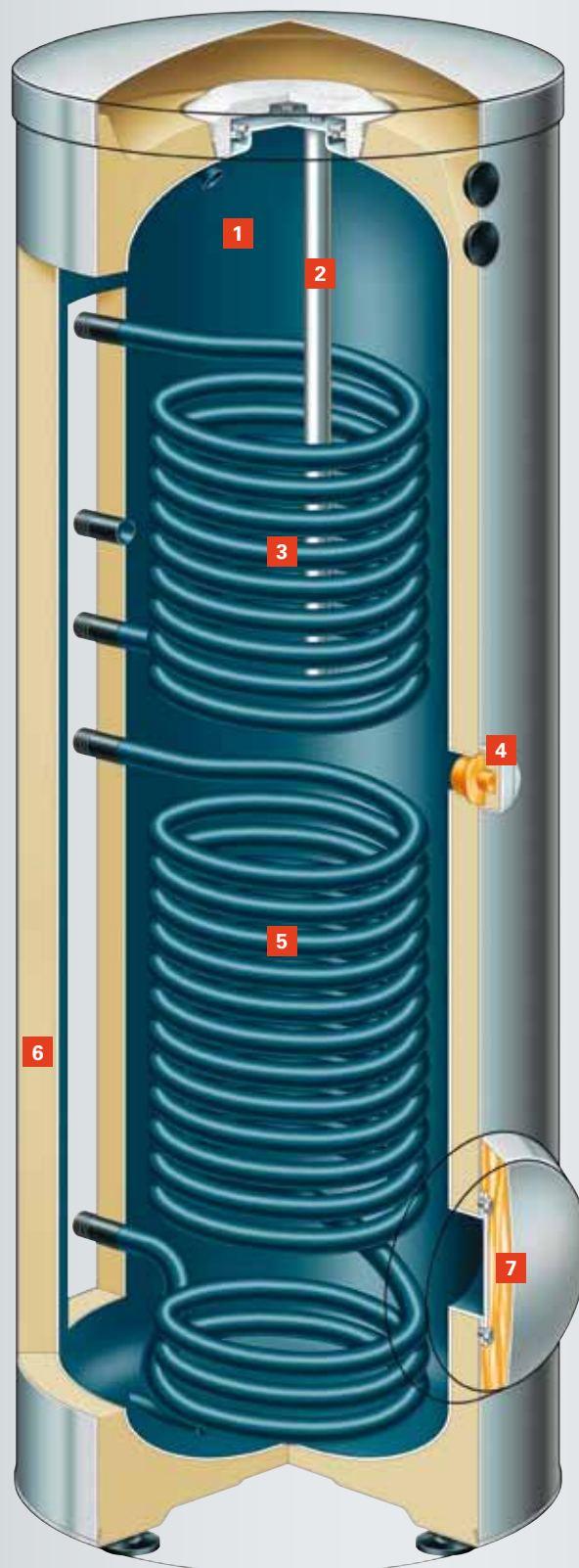


Cylinder capacity	litres	750	1000
Total dimensions			
Length ø	mm	960	1060
Length ø (excl. thermal insulation)	mm	750	850
Width	mm	1045	1155
Height	mm	2106	2166
Total weight	kg	241	312



VITOTRANS 222

Heat exchanger set for primary store system
 Transferable heating output up to 80, 120
 and 240 kW



- 1** Cylinder and internal indirect coils made of steel, with Ceraprotect enamel coating
- 2** Magnesium or impressed current anode
- 3** Upper internal indirect coil – for reheating by the boiler
- 4** Connection for immersion heater
- 5** Lower internal indirect coil – connection for solar collectors
- 6** Highly effective all-round thermal insulation made from rigid polyurethane foam
- 7** Front inspection and cleaning aperture (also for installation of an immersion heater)



Cylinder capacity	litres	300	
Total dimensions			
Length ø	mm	633	
Width	mm	705	
Height	mm	1746	
Total weight	kg	160	
Permissible operating pressure on the heating water side	bar	10	



Cylinder capacity	litres	400	500
Total dimensions			
Length ø	mm	859	859
Length ø (excl. thermal insulation)	mm	650	650
Width	mm	923	923
Height	mm	1624	1948
Total weight	kg	167	205
Permissible operating pressure on the heating water side	bar	10	10



- 1** Cylinder and internal indirect coils made of steel, with Ceraprotect enamel coating
- 2** Magnesium or impressed current anode
- 3** Solar-Set with solar control module or Vitosolic 100, flushing facility, air separator, pipework and variable speed high efficiency DC pump compliant with Energy Label A
- 4** Upper internal indirect coil – for reheating by the boiler
- 5** Lower internal indirect coil – connection for solar collectors
- 6** Highly effective all-round thermal insulation made from rigid polyurethane foam

VITOCELL 100-U/ -W**With solar control module (type SM1) for control via Vitotronic**

Cylinder capacity	litres	300
Total dimensions		
Length ø	mm	631
Width	mm	780
Height	mm	1705
Total weight	kg	179
Permissible operating pressure on the heating water side	bar	10

Available in silver or white

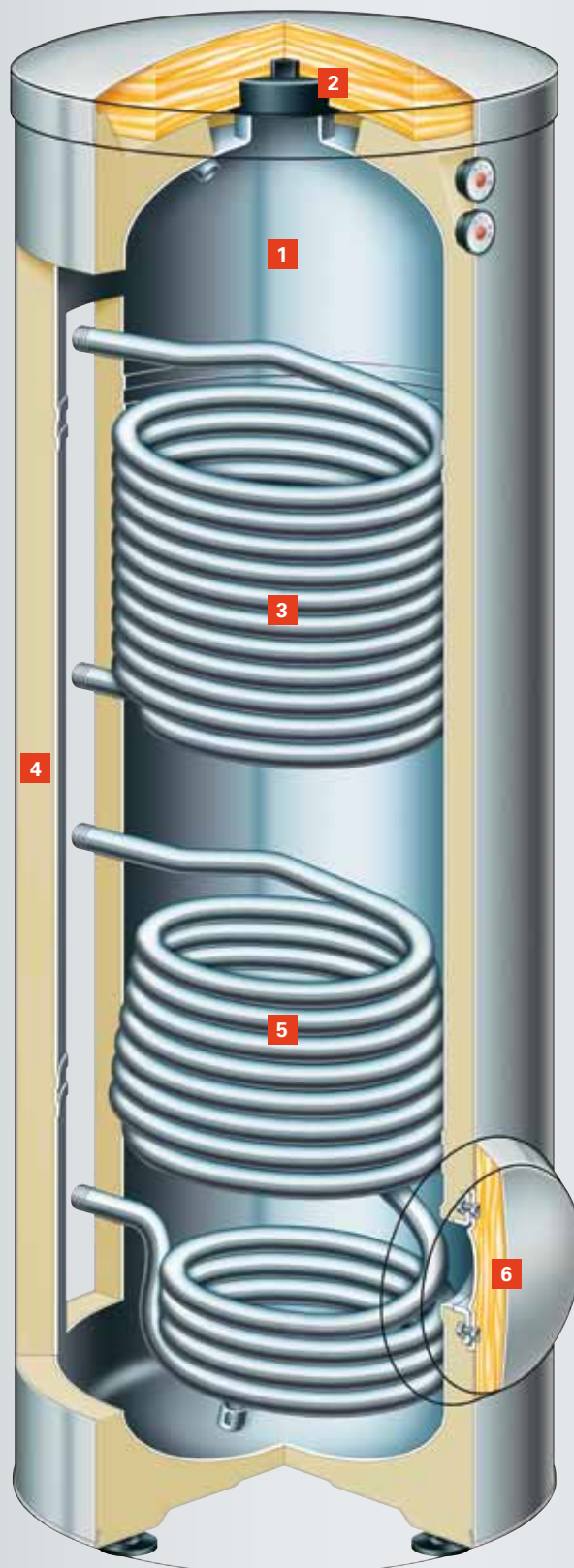
For Viessmann boilers with a Vitotronic 100 control unit (types HC1A, HC1B, KC2B, KC4B), or Vitotronic 200 control unit (types HO1A, HO1B, HO1C, KO1B, KO2B, KW6A, KW6B), order the Vitocell 100-U/-W (type CUVA) with the solar control module (type SM1).

**With Vitosolic 100 (type SD1)**

Cylinder capacity	litres	300
Total dimensions		
Length ø	mm	631
Width	mm	780
Height	mm	1705
Total weight	kg	179
Permissible operating pressure on the heating water side	bar	10

Available in silver or white

Order the Vitocell 100-U/-W with Vitosolic 100 (type SD1) if an existing system with an older control unit is to be upgraded.



- 1** Stainless steel cylinder
- 2** Upper inspection and cleaning aperture
- 3** Upper internal indirect coil – for reheating by the boiler
- 4** Highly effective all-round thermal insulation made from rigid polyurethane foam
- 5** Lower internal indirect coil – connection for solar collectors
- 6** Front inspection and cleaning aperture (also for installation of an EHE immersion heater)



Cylinder capacity	litres	300
Total dimensions		
Length ø	mm	633
Width	mm	704
Height	mm	1779
Total weight	kg	114
Permissible operating pressure on the heating water side	bar	25

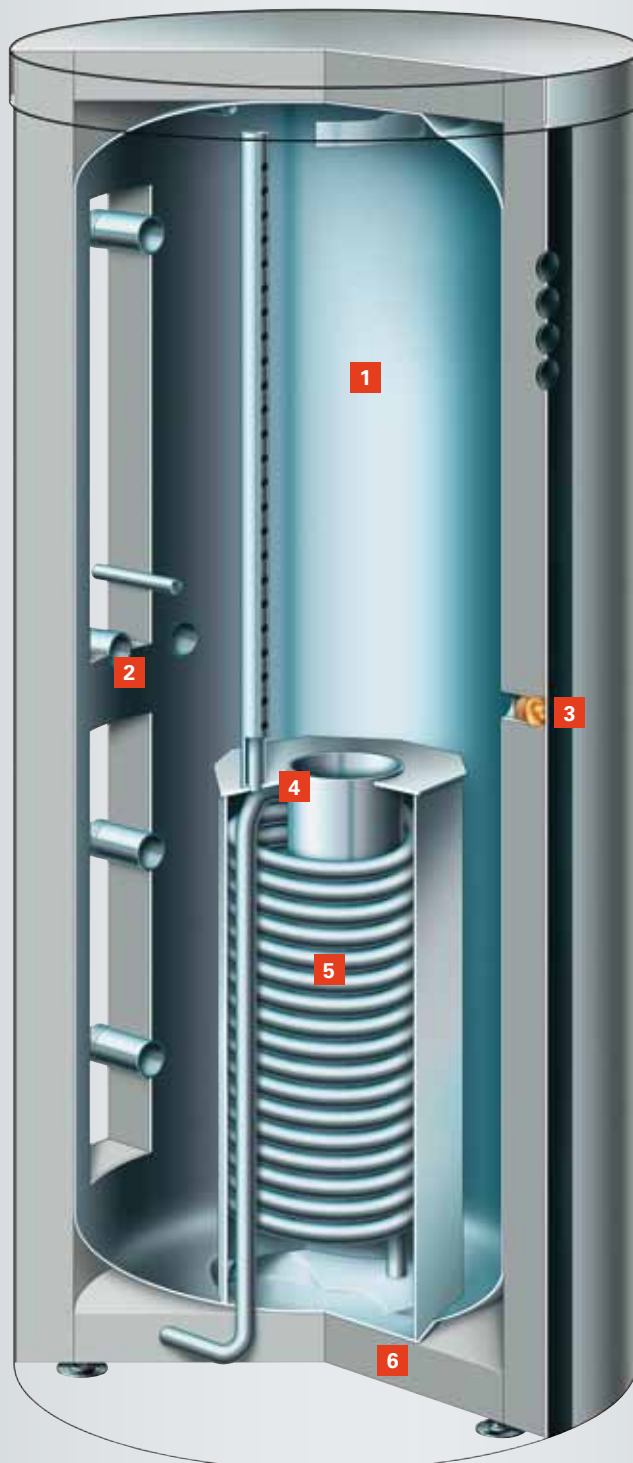


Cylinder capacity	litres	500
Total dimensions		
Length ø	mm	925
Length ø (excl. thermal insulation)	mm	715
Width	mm	975
Height	mm	1738
Total weight	kg	125
Permissible operating pressure on the heating water side	bar	25

Vitocell 100-E/-W
Vitocell 140-E/160-E

Heating water buffer cylinders

- 1 Steel cylinder
- 2 Various hydraulic connection options
- 3 Connection for EHE immersion heater
- 4 Stratification system
- 5 Steel internal indirect coil for connection to solar collectors
- 6 Highly effective all-round thermal insulation made from polyester fleece



Vitocell 160-E
(type SESA)

Heating water buffer cylinders

**VITOCELL 100-E/ -W**

Cylinder capacity	litres	200		
Total dimensions				
Length ø	mm	581		
Width	mm	640		
Height	mm	1409		
Total weight	kg	80		

Available in silver or white

**VITOCELL 100-E**

Cylinder capacity	litres	400	750	950
Total dimensions				
Length ø	mm	859	1004	1004
Length ø (excl. thermal insulation)	mm	650	790	790
Width	mm	885	1059	1059
Height	mm	1624	1895	2195
Total weight	kg	122	147	168

Heating water buffer cylinders
with connection for solar collectors**VITOCELL 140-E**

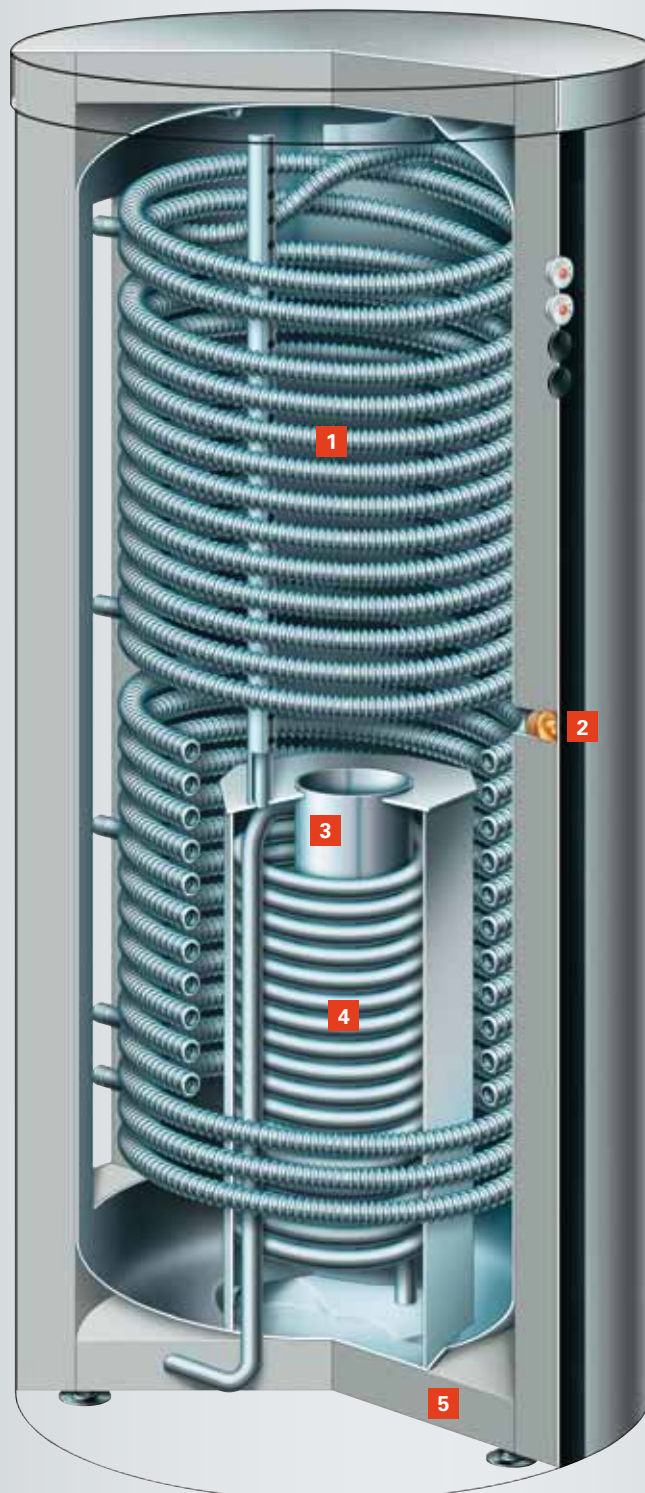
Cylinder capacity	litres	750	950	
Total dimensions				
Length ø	mm	1004	1004	
Length ø (excl. thermal insulation)	mm	790	790	
Width	mm	1060	1060	
Height	mm	1895	2195	
Total weight	kg	174	199	

**VITOCELL 160-E***

Cylinder capacity	litres	750	950	
Total dimensions				
Length ø	mm	1004	1004	
Length ø (excl. thermal insulation)	mm	790	790	
Width	mm	1060	1060	
Height	mm	1895	2195	
Total weight	kg	183	210	

* With stratification system

- 1** Corrugated stainless steel internal indirect coil for DHW
- 2** Connection for EHE immersion heater
- 3** Stratification system
- 4** Steel internal indirect coil for connection to solar collectors
- 5** Highly effective all-round thermal insulation made from polyester fleece



Vitocell 360-M
(type SVSA)



VITOCCELL 340-M

Total capacity	litres	750	950
Capacity			
– Heating water	litres	708	906
– DHW	litres	30	30
– Solar indirect coil	litres	12	14
Total dimensions			
Length ø	mm	1004	1004
Length ø (excl. thermal insulation)	mm	790	790
Width	mm	1060	1060
Height	mm	1895	2195
Total weight	kg	198	229



VITOCCELL 360-M*

Total capacity	litres	750	950
Capacity			
– Heating water	litres	708	906
– DHW	litres	30	30
– Solar indirect coil	litres	12	14
Total dimensions			
Length ø	mm	1004	1004
Length ø (excl. thermal insulation)	mm	790	790
Width	mm	1060	1060
Height	mm	1895	2195
Total weight	kg	207	240

* With stratification system

The comprehensive Viessmann product range



Boilers for oil
up to 116 MW heating
or 120 t/h steam output



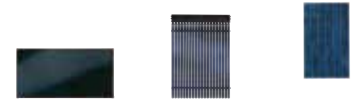
Boilers for gas
up to 116 MW heating
or 120 t/h steam output



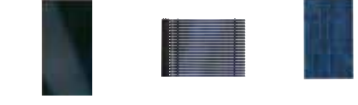
Solar thermal and
photovoltaics



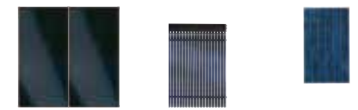
Detached houses



Apartment buildings



Commerce / Industry



Local heating networks



Individual solutions with efficient systems

The comprehensive Viessmann product range

The comprehensive product range from Viessmann offers individual solutions with efficient systems for all applications and all energy sources. For decades, the company has been supplying highly efficient and clean heating systems for oil and gas, as well as solar thermal systems along with heat generators for sustainable fuels and heat pumps.


The comprehensive product range from Viessmann offers top technology and sets new benchmarks. With its high energy efficiency, this range helps to save heating costs and is always the right choice where ecology is concerned.

Individual and economical


Viessmann offers the right heating system for any demand – wall mounted or floorstanding, in individual combinations – all are futureproof and economical. And whether for detached houses or two-family homes, large residential buildings, commercial/industrial use or for local heating networks; for modernising existing properties or new build – they are always the right choice.

Key performers

The Viessmann Group sets the technological pace for the heating industry. This is what the Viessmann name represents, and also what the names of the subsidiaries in the Group represent, as they are founded on the same pioneering spirit and power of innovation.



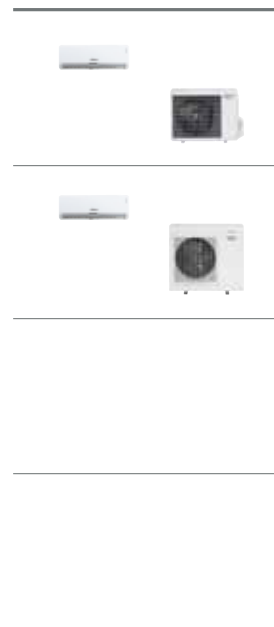
Wood combustion technology, CHP and biogas production up to 50 MW



Heat pumps for brine, water and air up to 2 MW

Air conditioning technology

Heating system accessories



The comprehensive product range from Viessmann:
Individual solutions with efficient systems for all energy sources and applications

The product range for all fuel types and output ranges:

- Boilers for oil or gas up to 116 MW heating or 120 t/h steam output
- Solar thermal systems
- Photovoltaics
- Heat pumps up to 2 MW
- Wood combustion systems up to 50 MW
- Combined heat and power modules up to 30 MW_{el}
- Systems for the production of biogas from 18 kW_{el} to 20 MW_{gas}
- Biogas upgrading plants up to 3000 m³/h
- Air conditioning technology
- Heating system accessories

Viessmann is highly specialised in all these market segments, yet at the same time the company has a crucial advantage over specialist suppliers: Viessmann understands heating technology as a systematic whole and offers unbiased advice on technology and fuel type. This guarantees the best solution for every application.

Viessmann Group

VIESSMANN

KWT

KOB

MAWERA

ESS

HKB

BIOFERM

Schmack

Carbotech

The comprehensive Viessmann product range



Detached houses



Apartment buildings



Commerce / Industry



Local heating networks



Oil boilers



Architect's own home,
Bad Füssing, Germany



Residential development, ZiWei
Garden Xi'an, China



Ameco A380 Hangar Beijing,
China



European Parliament, Strasbourg,
France



Gas boilers



Detached house, Kevelaer,
Germany



"Wohnoase" residential park in
Regensburg, Germany



Porsche Leipzig,
Germany



European Parliament, Brussels,
Belgium



Solar thermal
systems and
photovoltaics



Heliotrop Freiburg,
Germany



HafenCity, Hamburg,
Germany



City of Tomorrow, Malmö,
Sweden



The Palm Jumeirah,
Dubai



Wood combustion
technology, CHP, and
biogas production



Detached house, Wiesloch,
Germany



Hotel Lagorai Cavalese,
Italy



Congressional Centre,
Brunstad, Norway



Monastery, St. Ottilien,
Germany



Heat pumps for
brine, water and air



Loftcube Regional Garden
Show, Neu-Ulm, Germany



Studio flats, Brandenburg,
Germany



University library, Bamberg,
Germany



Residential estate, Pfäffikon,
Switzerland

The comprehensive product range from Viessmann: Individual solutions with efficient systems for all energy sources and applications

Futureproof heating technology for all requirements

Energy consumption worldwide has doubled since 1970 and will triple by 2030. The result: The fossil fuels, oil and gas, are dwindling, energy prices are on the rise and excessive CO₂ emissions continue to affect our environment. Energy efficiency is a must if we want our future to be secure.

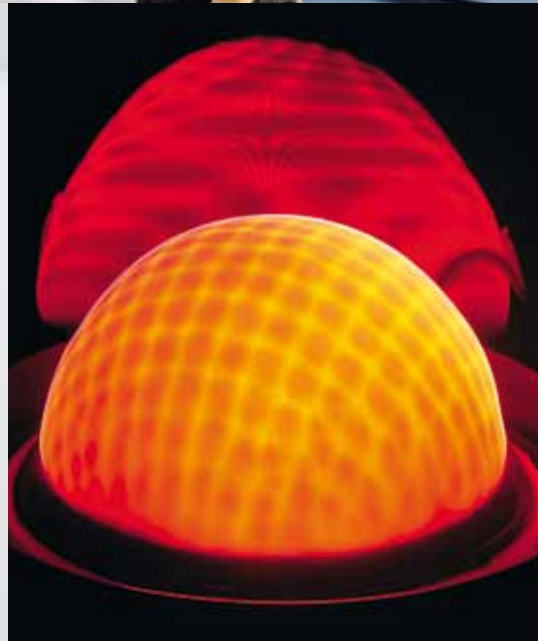
In almost every industrial nation, supplying heat to residential and commercial buildings accounts for the largest share of energy consumption – consequently it also offers the greatest savings potential. Advanced efficient heating systems from Viessmann are in use around the world, not only in many private households, but also in numerous major international projects, where they make a sizeable contribution to the efficient use of energy resources.

In these projects, Viessmann again and again faces up to the most varied challenges to supply efficient heating technology by offering innovative solutions – in historical listed buildings as well as in modern industrial complexes and the large-scale residential and industrial arena.



City of Tomorrow, Malmö, Sweden

The company



Viessmann – climate of innovation

Viessmann is one of the leading international manufacturers of heating systems and, with its comprehensive product range, offers individually tailored, efficient systems for all applications and types of fuel.

As a third generation family run business, Viessmann has been supplying highly efficient and clean heating systems for many decades.

A strong brand creates trust

Together with our brand label, our key brand message is an identifying feature throughout the world. „Climate of innovation“ is a promise on three levels: It is a commitment to a culture of innovation. It is also a promise of enhanced product benefits and, at the same time, an obligation to protect the environment.

Acting in a sustainable manner

For Viessmann, taking responsibility signifies a commitment to acting sustainably.

This means bringing ecology, economy and social responsibility into harmony with each other, ensuring that current needs are

satisfied without compromising the quality of life for the generations to come.

We consider climate protection, environmental responsibility and resource efficiency to be key priorities throughout our company, which has more than 9600 employees globally.

Efficiency Plus

With the strategic „Efficiency Plus“ sustainability project, launched in 2005, Viessmann demonstrates at its own site in Allendorf (Eder) that the political goals set for 2050 with regard to energy and climate can already be achieved today with commercially available technology. In 2012, we will already achieve the following results:

- Consumption of fossil fuels reduced by 66 percent compared to 2005
- Use of renewables increased to 56 percent
- CO₂ emissions reduced by 80 percent compared to 2005

The long term goal is to cover all the company's heating energy requirements ourselves.



Deutscher Nachhaltigkeitspreis

Deutschlands nachhaltigste Produktion 2009



Deutscher Nachhaltigkeitspreis

Deutschlands nachhaltigste Marke 2011

Viessmann was awarded the German Sustainability Prize for the "most sustainable production 2009" and as being the "most sustainable brand 2011".



For the particularly efficient utilisation of energy through the innovative heat recovery centre at the company's main site in Allendorf/Eder, Viessmann was rewarded with the Energy Efficiency Award 2010.

Viessmann Group

Company details

- Established in: 1917
- Employees: 9600
- Group turnover: €1.86 billion
- Export share: 55 percent
- 24 manufacturing plants in 11 countries
- Sales companies and representations in 74 countries
- 120 sales outlets worldwide

Comprehensive range of products from Viessmann for every type of fuel and all output ranges

- Boilers for oil and gas
- Solar thermal systems
- Photovoltaics
- Heat pumps
- Wood combustion systems
- Combined heat and power
- Biogas production plants
- Biogas upgrading plants
- Air conditioning
- Heating system accessories



climate of innovation

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