

# DHW storage tanks **VITOCELL**



Heating Systems Industrial Systems Refrigeraation Systems



Vitocell domestic hot water storage tanks 42 to 119 USG / 160 to 450 ltr  $\,$ 

### Rediscover domestic hot water comfort

With a Vitocell tank from Viessmann, you increase your comfort level and your savings at the same time - the Vitocell line offers something for everyone.

With a new Vitocell tank from Viessmann, you increase your comfort level and your savings at the same time! Fast recovery rates, large water volume, low standby losses translate into comfort, convenience, efficiency and reliability. Choose Vitocell – choose peace of mind.

#### Something for everyone

Tanks are available in vertical and horizontal designs, for placement beside or underneath a boiler, from 42 to 119 USG / 160 to 450 liters. Also, with Viessmann Integrated System Technology, boiler, tank and control match perfectly. Everything fits together, installs quickly and arrives factory-adjusted - fast installation and maximum system performance are guaranteed. Find out on the following pages how you can improve your domestic hot water experience today.

#### Vitocell 300

Made of high-alloy stainless steel, the Vitocell 300 models are not only extremely hygienic, but are known for their operational reliability and long service life.

#### Vitocell 100

This series is an economical choice for convenient and efficient domestic hot water production. The Vitocell 100 models are made of steel with a Ceraprotect two-coat enamel finish and a consumable anode to protect against corrosion.

#### Satisfaction guaranteed

The large heat exchanger surfaces of the Vitocell tanks extend right to the tank bottom and ensure an abundant supply of hot water and even water temperatures all day long. The heat exchanger coils are arranged for efficient venting and draining and facilitate start-up and smooth operation. HCFC-free insulation (foamed-in-place or wrap-around) reduces standby losses and increases operating efficiency.

#### **Maximum System Performance**

In contrast to most conventional direct-fired tanks, indirect-fired tanks from Viessmann, such as the Vitocell line, use the heating water from the boiler to heat the tank water. Space heating and domestic hot water production are integrated into one system - maximum system performance regulated by one control, powered by one burner!



Did you know? You can save up to 50% in operating cost with Viessmann indirect-fired domestic hot water storage tanks.





### VITOCELL 100-V

High performance and quality construction for economical domestic hot water Vertical, indirect-fired domestic hot water tank, 42 to 119 USG

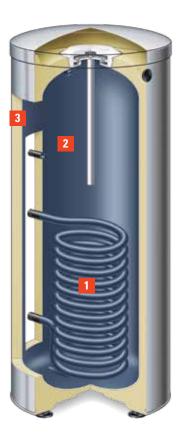
The Vitocell 100 tank series is the economical choice for reliable and efficient domestic hot water production. Single-coil tanks are available in 4 sizes from 42 to 119 USG / 160 to 450 ltr. Dual-coil tanks for use in solar thermal applications are available in 2 sizes, 79 and 119 USG / 300 and 450 ltr.

#### **Quality construction**

The steel construction of the Vitocell 100 tanks has a two-coat enamel finish which protects all interior surfaces from corrosion.

While the base layer provides a solid bond between the steel construction and the enamel finish, the second layer protects the tank from corrosion.

For additional protection each tank comes with a consumable anode.



#### Convenience

Fast recovery rates and the large heat exchanger surfaces of the tank coil ensure an abundant supply of hot water and even water temperatures at all times.

For more flexibility and to meet larger domestic hot water demands, take advantage of a multi-tank installation (Vitocell-V 100, 79 and 119 USG / 300 and 450 ltr only).

#### Economy

Extremely efficient domestic hot water production via boiler (indirect-fired). Save up to 50% in operating cost compared to most conventional (direct-fired) domestic hot water production.

Highly-effective HCFC-free foamedin-place or wrap-around insulation reduces standby losses and operating cost.

#### Solar tank

Discover new ways of domestic hot water production! With the Vitocell-B 100 dual-coil tank you can have it two ways - via solar collector and/or the heating boiler. Find out more on pages 8/9.

#### Vitocell 100-V single-coil tank

- Heat exchanger coil : heat is transferred from the boiler to the tank water
- Magnesium anode : provides additional active corrosion protection
- 3 HCFC-free, foamed-in-place insulation



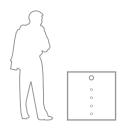


#### Specifications

- Four single-coil tank sizes from 42 to 119 USG / 160 to 450 ltr
- Two dual-coil tank sizes from 79 and 119 USG / 300 and 450 ltr
- Vitocell 100-V, 119 USG / 450 ltr is supplied with removable soft polyester fiber (PET) insulation for easy handling.

#### Benefits at a glance

- Large heat exchanger surfaces for fast recovery rates and a constant and reliable DHW supply.
- Tank coil extends to tank bottom which guarantees even and consistent water temperatures at all times.
- Quality steel construction and Viessmann Ceraprotect permanent two-coat enamel finish for operational reliability and long service life.
- Magnesium anode provides additional active corrosion protection.
- Save up to 50% of your operating costs with extremely efficient indirect hot water production by a condensing boiler.
- Highly effective, HCFC-free insulation keeps standby losses and operating cost to a minimum.
- Ideal for small spaces with zero clearance to combustibles.
- Satisfy large DHW demands by connecting multiple Vitocell 100-V tanks (79 and 119 USG) to form a tank battery.



## VITOCELL 300-V/-H

Comfort, convenience and reliability for abundant supply of domestic hot water Vertical and horizontal, indirect-fired domestic hot water tank, 42 to 119 USG

The Vitocell 300 is the leading tank series in the Vitocell line of domestic hot water storage tanks. It's extremely durable, efficient, hygienic and provides all the hot water you need.

Available in vertical and horizontal designs, from 42 to 119 USG / 160 to 450 liters.

#### Long Service Life

Both tank and heat exchanger are made of SA240-316 Ti high-performance stainless steel, a material known for its durability, hygiene, acid resistance and aesthetic appearance. There is minimal wear - no corrosion protection is needed - and this maximizes your cost savings.

#### Comfort

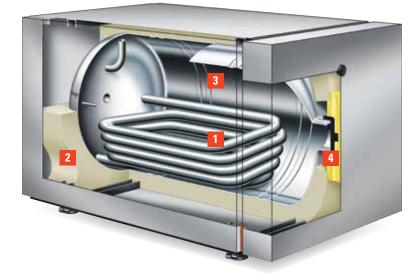
Fast recovery rates due to large heat exchanger surfaces of the tank coil ensure an abundant supply of hot water and even water temperatures at all times. To meet the requirements of multiple-family housing you have the option of combining several Vitocell 300 tanks into 'tank batteries' - beside each other when room is available, or stacked (horizontal design) when space is at a premium.

#### Efficiency

Extremely efficient domestic hot water production via condensing boiler (indirect-fired). Save up to 50% in operating cost compared to most conventional (direct-fired) domestic hot water production. Highly effective HCFC-free foamed-in-place or wrap-around insulation reduces standby losses and operating cost.

#### Solar tank

Discover new ways of domestic hot water production! With the Vitocell-B 300 dual-coil tank you can have it two ways - via solar collector and/or the heating boiler. Find out more on pages 8/9.



#### Vitocell 300-H horizontal tank

- Stainless steel heat exchanger coil extends to tank bottom to heat entire water volume
- 2 Foamed-in-place HCFC-free insulation
- 3 316Ti Stainless steel construction
- Clean-out opening





#### Specifications

- Three vertical single-coil tank sizes from 53 to 119 USG / 200 to 450 ltr
- Four horizontal single-coil tank sizes from 42 to 119 USG / 160 to 450 ltr
- Two vertical dual-coil tank sizes from 79 to 119 USG / 300 and 450 ltr
- Tank body and heat exchanger coil constructed of SA240-316 Ti stainless steel

#### Benefits at a glance

- Peace of mind with lifetime warranty for residential installations.
- Large heat exchanger surfaces for fast recovery rates and a constant and reliable DHW supply.
- Tank coil extends to tank bottom guaranteeing even and consistent water temperatures at all times.
- High alloy stainless steel construction provides operational reliability and a long service life.
- Scale and corrosion resistant, the Vitocell 300 is ideal for areas with poor water quality.
- Save up to 50% of your operating with extremely efficient indirect hot water production by a condensing boiler.
- Highly effective (HCFC-free) insulation keeps standby losses and operating cost at a minimum.
- Satisfy large DHW demands by connecting multiple Vitocell 300
  DHW tanks to form a tank battery. Horizontal tanks can be stacked.
- Ideal for small spaces with zero clearance to combustibles.

### VITOCELL 300-B/100-B

Solar thermal sytems are ideal for integration with your indirect-fired DHW tank Vertical, indirect-fired dual-coil DHW tank, 79 to 120 USG



Vitosol 200-F flat plate solar collectors

Integrating indirect-fired domestic hot water (DHW) heating with your gas-fired condensing boiler can save as much as 50% in operating costs when compared to conventional direct-fired hot water production.

Our complete line of DHW storage tanks offers high-quality construction and fast recovery rates for an abundant supply of DHW at all times. Plus, with thick thermal insulation, your DHW is guaranteed to stay hot. In addition to vertical and horizontal DHW storage tanks, choose from economical enamel-lined or premium stainless steel construction for a variety of applications.

#### Your economical choice

The Vitocell 100 Series meets all demands for comfortable and economical DHW heating. With steel construction, Ceraprotect enamel coating and a magnesium anode, the Vitocell 100 ensures operational reliability and a long service life. Single-coil tanks are available in 4 sizes from 42 to 119 USG. Dual-coil tanks for use in solar thermal applications are available in 2 sizes, 79 and 119 USG.

#### Your premium choice

Vitocell 300 tanks are made from corrosionresistant, high-alloy stainless steel to satisfy the most stringent hygiene standards. With its premium-quality construction, the Vitocell 300 offers long-term, reliable operation and comes with a lifetime warranty. Vitocell 300 tanks meet the stringent standards required to carry the Environmental Choice logo. Single-coil tanks are available in 7 sizes from 42 to 119 USG. Dual-coil tanks are available in 2 sizes, 79 and 119 USG.

#### Solar hot water heating

Our dual-coil solar tank allows both the solar collectors and gas-fired condensing boiler to produce your home's DHW. Solar heat is transferred using the lower coil, while backup heat is supplied by the heating boiler, as required, via the upper coil (see illustration). By using solar energy to help generate your home's DHW, you can lower your heating bill further without compromising your hot water supply.

#### Vitocell 100-B dual-coil solar tank

- 1 Lower coil : Heat is transferred from the solar collectors to the tank water
- 2 Upper coil : Additional heat supplied by the high-efficiency boiler
- 3 Stainless steel construction (Vitocell 300)
- 4 Clean-out opening



#### How it works

The tank has two coils. Via the bottom coil, heat is transferred from the solar collectors to the tank water. On days when the heat transfer from the solar collectors is too low, the boiler uses the top coil to supply additional heat to the tank water.

#### Integration with an indirect-fired hot water tank

If your home uses a hot water based heating system, you have the option of an integrated single-tank system. Using a dual-coil storage tank, both the solar collectors and gas-fired condensing boiler contribute to DHW production.

#### High performance solar systems

Built on more than 30 years of experience, our high-performance flat plate and vacuum tube solar collectors and system components deliver superior year-round performance in a variety of applications. Plus, for residential installations, we offer complete solar system packages that simplify ordering and installation.



# **Technical Specifications**



### Vitocell 100-V and Vitocell 100-B indirect-fired vertical DHW storage tank

Model		CVA	CVA	CVA	CVA	CVB*	CVB*
Capacity	USG	42	53	79	119	79	119
	ltr	160	200	300	450	300	450
<b>Dimensions</b> (inches)	Width	23	23	25	33.5	25	33.5
	Depth	24	24	27.75	35.25	28	36
	Height	47	55.5	68.75	77	69	77
Weight	lbs	190	214	333	399	353	452

\*Bivalent, dual-coil hot water production via solar collector and boiler.



### Vitocell 300-V and Vitocell 300-B indirect-fired vertical DHW storage tank

Model		EVI	EVI	EVI	EVB*	EVB*
Capacity	USG	53	79	119	79	119
	ltr	200	300	450	300	450
<b>Dimensions</b> (inches)	Width	23	25	36	25	36.5
	Depth	25.5	27.75	38.5	27.75	38.5
	Height	56	70	69.5	70	68.5
Weight	lbs	168	220	245	251	275

\*Bivalent, dual-coil hot water production via solar collector and boiler.



### Vitocell 300-H indirect-fired horizontal DHW storage tank

Model		EHA	EHA	EHA	EHA
Capacity	USG	42	53	92	119
	ltr	160	200	350	450
<b>Dimensions</b> (inches)	Width	25.25	25.25	32.75	35.75
	Depth	42.25	48.25	62.5	65
	Height	25.75	25.75	31	35
Weight	lbs	168	185	379	421

### Viessmann - The Company

#### **Viessmann - climate of innovation**

The Viessmann brand promise concisely expresses all that we hope to achieve. It is our key brand message and, together with our brand label, 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 a promise of high product utilization and, at the same time, an obligation to protect the environment.

# Comprehensive range of products and services for all fuel types

Viessmann is one of the leading international manufacturers of heating systems and, with its comprehensive range of products and services, offers individual solutions of efficient systems for all applications and fuel types. As an environmental pioneer, the company has been supplying particularly efficient and clean heating systems for decades.

#### Acting in a sustainable manner

For Viessmann, to take responsibility, means a commitment to act in a sustainable way. This means bringing ecology, economy and social responsibility into harmony with each other, ensuring that current needs are satisfied without limiting the basis for life for the generations to come.

#### Efficiency program

With our efficiency program, Viessmann shows that the political goals set for 2020 with regard to climate and energy can already be achieved today with commercially available technology.

This project demonstrates:

- Environmental protection
- Efficiency with resources
- Securing manufacturing sites for the future

As a result, fossil fuels have been cut by 40 percent and  $CO_2$  emissions reduced by a third.



Deutscher Nachhaltigkeitspreis Deutschlands nachhaltigste Marke 2013

Viessmann won the German Sustainability Award 2013 for its commitment to climate protection and efficient use of resources.



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

#### Viessmann Werke GmbH & Co. KG

#### **Company details**

- Established in: 1917
- Employees: 11,500
- Group turnover: 2.2 billion Euro
- Export share: 56 percent
- 22 factories in 11 countries
- Operating in 74 countries
- 120 sales offices worldwide

#### Performance spectrum

- Condensing technology for oil and gas
- Solar thermal systems
- Heat pumps
- Wood combustion systems
- CHP modules
- Biogas plants
- Services



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