

# Presse

## **Viessmann Vitocell: comprehensive storage range for customized system solutions**

This year, Viessmann will be launching DHW cylinders onto the market which are categorized in the highest rating for cylinders, efficiency class A, thanks to their innovative highly-efficient thermal insulation, as per the Energy Labeling Directive (ErP Directive). Moreover, almost all DHW cylinders up to a volume of 500 liters are available with energy label B. ISH 2015 will also see Viessmann premiering:

- The new dual-mode DHW cylinder Vitocell 100-W with energy efficiency label A, which displays all storage data such as charge level or temperature stratification in the energy cockpit for gas condensing boiler Vitodens 300-W with the new Vitotronic 200 control unit.
- The heating water buffer cylinder Vitocell 140-E and Vitocell 100-E with a 400- and 600-liter cylinder capacity.

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## **Vitocell 100-V and 100-W: DHW cylinders with efficiency labels A and B**

Viessmann will be offering its Vitocell DHW cylinder up to a volume of 500 liters with efficiency label B as standard before the European Energy Labeling Directive actually comes into force on September 26, 2015. Thermal insulation around the cylinder will also be increased by up to 20 millimeters in parts. As a result, standby losses from the cylinder will be lower while homeowners will benefit from low energy costs.

What's more, DHW cylinders are also being launched onto the market which feature additional thermal insulation consisting of vacuum panels. These cylinders achieve energy efficiency class A, making them the highest category for this product group.

### **Top efficiency rating thanks to innovative thermal insulation**

The new, extra thermal insulation for DHW cylinders consists of lamellar panels with a ceramic support structure. The support structure is encased in a gas- and vapor-tight plastic film which has been vacuum sealed. Thanks to the vacuum, thermal conductivity is very low and thermal insulation far more effective than with conventional insulation materials. This is why these Vitocell DHW cylinders are categorized in efficiency class A, the highest possible category.

### **Easy handling and installation**

The additional thermal insulation provided by the thin vacuum panels does not change the outer dimensions. These cylinders are thus just as easy to transport and install as cylinders with conventional insulation. The vacuum panels are completely maintenance-free throughout their entire service life.

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## Safe DHW generation

DHW cylinders in the 100 series – Vitocell 100-V in Vitosilver and the 100-W in white – are made of steel and contain an internal heating element to transfer the heat from the boiler or heat pump to the drinking water. The CeraProtect enamel coating protects against corrosion and ensures that the heated drinking water is always perfectly safe. A magnesium anode, included in the scope of delivery, or a maintenance-free impressed current anode (accessory) helps to provide corrosion protection for surfaces.

## Advantages for market partners

- Flexible adjustment to customer requirements thanks to differentiated cylinder range with efficiency ratings A and B
- Easy to transport and install thanks to unchanged outer dimensions (cylinder with A label)
- Maintenance-free vacuum panel: no additional maintenance outlay

## Advantages for owners

- Low energy consumption thanks to low standby losses
- Choice of design (A or B label)

## Technical specifications (cylinder with A label)

Cylinder	Type	Volume (liters)	Outer diameter (mm)	Insulation thickness (mm)
Vitocell 100-W	CUGA-A	120	585	50
Vitocell 100-W	CUGA-A	150	625	50
Vitocell 100-V/-W	CVAA-A	160	575	45
Vitocell 100-V/-W	CVAA-A	200	575	45
Vitocell 100-W	CVUC-A	300	660	68.5

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## **Availability**

DHW cylinders Vitocell 100-V and Vitocell 100-W with efficiency label A are available from April 2015.

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## **Vitocell 100-W (CVUC-A): system cylinder with perfect control of fill level**

The new dual-mode DHW cylinder Vitocell 100-W (CVUC-A) is designed as part of an intelligent system cylinder since the fill level can be controlled precisely at all times in the energy cockpit with its animated photo-realistic graphics when this cylinder is combined with wall-mounted gas condensing boiler Vitodens 300-W and the new Vitotronic 200 control unit. This ensures transparency regarding solar heat yields over recent days, weeks, or months.

### **Cylinder with efficiency label A**

Featuring a CeraProtect enamel coating to provide protection against corrosion, the new Vitocell 100-W is a 300-liter, stainless steel DHW cylinder which supplies pure, non-contaminated hot water at all times. Thanks to its highly effective thermal insulation with vacuum panels, the cylinder will be rated in efficiency class A from September 2015. It is also already fully equipped to be quickly and easily integrated into a solar thermal system for DHW generation: Solar-Divicon with a speed-controlled, high-efficiency pump in line with energy label A requirements, piping, fill valve, air separator, and four temperature sensors are integrated into a housing which is attached to the storage cylinder.

### **Detailed information on fill level**

If the system cylinder is combined with wall-mounted gas condensing boiler Vitodens 300-W, homeowners and trade professionals can obtain detailed information on cylinder processes from the controller color display: cylinder fill level, temperature distribution, and temperature profiles are shown on easy-to-understand graphic screens. Solar yields are recorded

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more precisely than with conventional cylinders. On request, temperature profiles and solar yields can be displayed in color bar charts over periods of one day, one week, 12 months, or two years. Homeowners thus receive information on their usage habits while trade professionals can use the detailed information to optimize system operation, particularly for comparisons on a yearly or two-yearly basis.

## **Electronic guide for easy start-up procedures**

The integrated start-up assistant in the Vitotronic 200 control unit for the gas condensing boiler helps the fitter with the initial start up procedure for both Vitocell 100-W and the system as a whole. The assistant starts automatically when the heat generator is switched on for the first time and detects all connected system components. This process also automatically determines whether the solar thermal system flow and tank connections have been fitted correctly during installation and emits an appropriate message on the display.

## **Advantages for market partners**

- Easy start-up procedure thanks to electronic installation wizard including a check of flow and tank connections
- Evaluation of system operating behavior based on temperatures, temperature distribution, and operating statuses, including past readings
- Easy to service thanks to visual display of operating status and solar yield

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## **Advantages for owners**

- Solar DHW generation integrated into the system display on the color touchscreen, remote control, and the Vitotrol app

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- Clearly arranged, easy-to-understand display of the system operating status in the energy cockpit
- Solar yield indicated in the color bar chart (for 7 days, 12 months, 2 years)

## Technical specifications

- Volume: 300 l
- Outer diameter: 660 mm
- Insulation thickness: 68.5 mm (with integrated vacuum panels)

## Availability

DHW cylinder Vitocell 100-W (CVUC-A) will be available from April 2015.

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## **Vitocell 140-E and 100-E: heating water buffer cylinders in new cylinder size**

Heating water buffer cylinders Vitocell 100-E and Vitocell 140-E are highly versatile energy storage cylinders for systems with one or more heat generators. The range is now being extended to include new cylinder sizes of 400 and 600 liters and a special design for Vitocell 140-E to be combined with micro CHP systems.

### **Vitocell 100-E and 140-E**

Vitocell 100-E and Vitocell 140-E are heating water buffer cylinders designed for use with solar thermal systems, heat pumps, and solid fuel boilers. Vitocell 140-E also features an integrated heat exchanger coil in its lower cylinder section and an attached Solar-Divicon (for 400 l). This means that there is no need to connect an external loading circuit with a plate-type heat exchanger and pump if solar collectors are to be connected.

Supplied as an accessory, the fresh-water modules Vitotrans 353 can be mounted directly on both these cylinder types to provide fast, non-contaminated DHW generation. The continuous-flow water heater design ensures fresh hot water is available at all times. Available to fit to cylinders with a maximum tap flow rate of 25 and 48 liters per minute, they offer DHW convenience, can also be retrofitted, and match cylinders in their design.

Up to seven flow and tank connections on both cylinders make it easy to install hydraulic connections for a number of heat generators. High-grade, surrounding thermal insulation made of polyester fiber ensures little heat loss.

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## **Vitocell 140-E**

The heating water buffer cylinder Vitocell 140-E is a special model which is designed to be combined with the micro CHP unit Vitotwin 300-W. Its integrated heat exchanger coil is very large with a transfer surface of 2.1 square meters, which provides highly effective heat transfer from the micro CHP unit to the 400 liters of heating water in the cylinder. Highly effective thermal insulation made of polyester fiber guarantees low standby losses.

## **Advantages for market partners**

- Buffer cylinder for all applications
- Problem-free integration of several heat generators thanks to several different flow and tank connections
- Easily integrated into solar systems thanks to internal heat exchanger; no external loading circuit with plate-type heat exchanger and additional pump required (Vitocell 140-E)
- Combination with micro CHP unit possible thanks to customized design (Vitocell 140-E)
- Simple DHW generation thanks to fresh-water module Vitotrans 353 mounted on cylinder

## **Advantages for owners**

- Efficient operation of systems with renewable energy systems thanks to heating water buffering
- Minimum heat loss thanks to highly effective, surrounding thermal insulation
- Reliable operation assured by perfectly matched system components from a single source
- Drinking water always safe thanks to optional fresh-water module Vitotrans 353

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## **Technical specifications**

Cylinder volume:

- 400 and 600 l (Vitocell 100-E and 140-E)
- 400 l (Vitocell 140-E)

## **Availability**

Heating water buffer cylinders Vitocell 100-E and Vitocell 140-E with a cylinder volume of 400 and 600 liters are available from April 2015.

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## **Comprehensive range of products for all fuel sources**

Efficient, state-of-the-art heating technology is also always synonymous with system technology with cylinders featuring as a key element in such systems. Viessmann has the right system solution for every application, whether for apartments, single-family homes, large residential buildings, hotels, or commercial buildings. These solutions include mono- and dual-mode DHW cylinders made of stainless steel with CeraProtect enamel coating. Heating water buffer cylinders and multi-mode combination cylinders are available for integrating one or several additional heat generators. All cylinders are perfectly matched to heat generators in Viessmann's comprehensive range of products.

The range offers customized solutions with efficient systems and outputs between 1.0 and 120,000 kW for all application areas and fuel types. These include wall-mounted condensing boilers between 1.9 and 150 kW, floor-standing condensing boilers between 1.0 and 6,000 kW, and combined heating and power (CHP) plants between 0.75 and 530 kW<sub>el</sub> and between 1.0 and 660 kW<sub>th</sub>. Also part of this portfolio are renewable energy systems, including solar thermal systems with flat-plate and vacuum tube collectors for domestic hot water generation, auxiliary heating, and process heat generation, biomass boilers between 2.4 and 50,000 kW for logs, woodchips, and pellets, and heat pumps between 1.7 and 2,000 kW that use heat from the ground, groundwater or ambient air, and photovoltaic systems.

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### **Comprehensive services portfolio**

Furthermore, Viessmann supports their market partners with a comprehensive services portfolio. This includes a flexible logistics

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concept, a customer-oriented service concept from its Technical Service Department, the needs-based training program from the Viessmann Academy, campaign-related promotional material, the online portal and advance sales thanks to brand presence at winter sports events.

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## Images / captions



**Image 1:** Viessmann DHW cylinders Vitocell 100-V and Vitocell 100-W feature innovative thermal insulation consisting of vacuum panels to ensure that they are categorized in energy efficiency class A.



**Image 2:** The new dual-mode DHW cylinder Vitocell 100-W features smart energy management in combination with wall-mounted gas condensing boiler Vitodens 300-W energy cockpit – detailed information at any time, even when you are out and about.

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**Image 3:** Viessmann's heating water buffer cylinder Vitocell 140-E (SEIB) is specially designed to be combined with the micro CHP unit Vitotwin 300-W.

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