

uniSTOR



High performance
unvented stainless steel
cylinder range



High recovery, high performance

Vaillant's latest range of uniSTOR stainless steel unvented cylinders gives you the option of a broad range of capacities from 125 litres up to 310 litres. Whichever cylinder you choose, you can be sure of the quality and performance that you expect from Vaillant. In addition a high recovery heating coil and superb reheat times being best in class make uniSTOR the only choice in unvented cylinders. And what's more, the uniSTOR range is fully compatible both with Vaillant system and open vented boilers (high efficiency ecoTEC and ecoMAX boilers and standard efficiency thermoCOMPACT boilers) as well as any other manufacturers' boilers - so whatever the system you can always add an extra touch of Vaillant performance.

For the ultimate level of performance and control, uniSTOR cylinders can also be integrated in to the Vaillant total system solution - ecoTEC high efficiency boiler, uniSTOR cylinder, controls and VR 65 control centre - all from the industry's leading manufacturer.



uniSTOR's high grade stainless steel construction with laser welded seams carries a full 25 year anti-perforation guarantee on the cylinder shell for complete peace of mind. Also included with the product is an expansion vessel (up to 25 litres), all cold and hot water controls and a 2-port valve. All cylinders are equipped with a 3kW back up immersion heater with the option of a second immersion on the 260 litre and 310 litre models.

uniSTOR fits perfectly into the tightest of spaces, with all cylinders sharing a common width of 554mm. Installation is simplified by both low lift weights across the range and simple front access connections. Installation is further enhanced by easy access to all of the electrical controls and connections located behind a simply removable cover panel.



When using uniSTOR cylinders as part of the Vaillant Total System Solution, the VR 65 control centre also includes an optional NTC cylinder sensor (VR 10) giving complete control over the hot water performance. Which offers benefits over the traditional installation

- All supplied from one manufacturer with one service supplier
- Harmonised controls keeping the boiler in condensing mode for as long as possible
- Ability to control the hot water temperature from the boiler or controls when using the VR 10

2 year
guarantee

25 year
guarantee
shell perforation

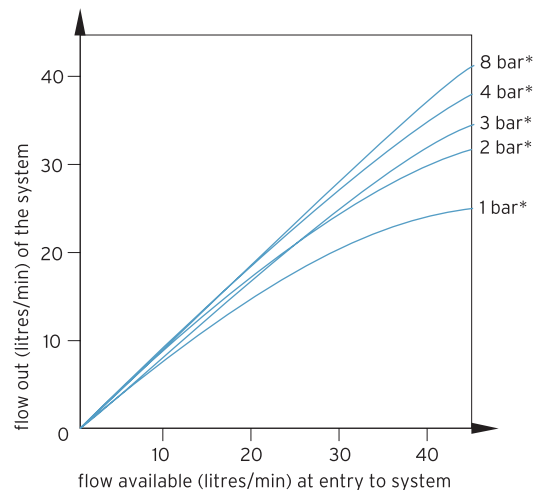


2 port valve

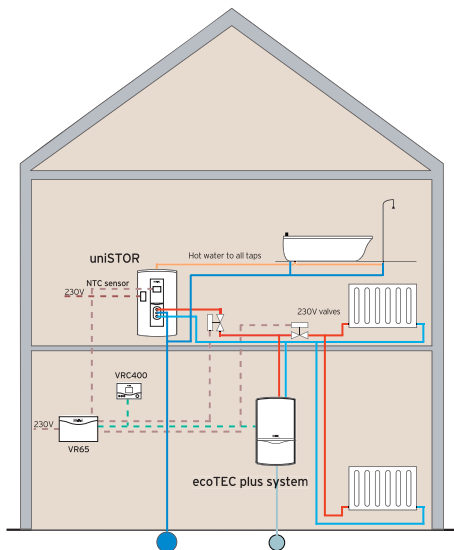


Expansion vessel

Flow rates from uniSTOR, hot 60°C.



Total System Solution



Which components form the total system solution?

- ecoTEC plus system boilers
- uniSTOR stainless steel cylinder (supplied with 230V DHW valve)
- 'ebus' controls e.g. VRT 360, VRC 400
- VR 65 Control Centre
- uniSTOR cylinder NTC (VR 10)

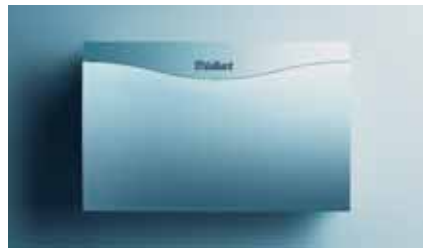
Note: 230V zone valves (for CH) are widely available and must be supplied separately.



Vaillant ecoTEC system boilers and uniSTOR unvented stainless steel cylinders can now be integrated into one complete system together with the new Vaillant 'ebus' controls. This total system concept brings some unique features and benefits to the installer and the home-owner.

Benefits

- All components supplied from one manufacturer for peace of mind
- All components are compatible
- DHW temperature can be set at the boiler or at the control
- Cylinder re-charge with 'AquaCondens' system which re-charges cylinder at the most economical temperature to maintain efficiency
- Easy to integrate with underfloor heating systems
- Simple wiring
- Easy to upgrade existing systems



VR 65 control centre

The VR 65 control centre is the heart of the total system solution. It has been designed to allow Vaillant low voltage 'ebus' controls to be integrated within traditional 230V S-plan or Y-plan type installations to provide a total system solution.

The VR 65 control centre provides the following connection points:-

- 1 x 3-port zone valve or 2 x 2-port zone valves
- 230V cylinder thermostat
- NTC for installation in uniSTOR only (instead of 230V cylinder stat)
- 230V connection
- 'ebus' connection



uniSTOR

unvented cylinders



Typical applications	
Single bathroom property	uniSTOR 125
Single bathroom property with an en-suite shower room	uniSTOR 125 / 155
Two bathroom property	uniSTOR 155 / 180
Two bathroom property with an en-suite shower room	uniSTOR 180 / 210
Larger properties	uniSTOR 260 / 310

Technical Specification

		uniSTOR 125	uniSTOR 155	uniSTOR 180	uniSTOR 210	uniSTOR 260	uniSTOR 310
Size	litres	125	155	180	210	260	310
Maximum water supply pressure	bar	10					
Expansion vessel charge pressure	bar	4					
Operating pressure	bar	3.5					
Pressure reducing valve	bar	3.5					
Expansion relief valve	bar	6.0					
T/P valve	°C/bar	95 / 7.0					
Maximum primary circuit pressure	bar	2.5					
Weight (cylinder)	kg	28	30	33	39	44	49
Weight (full)	kg	145	175	205	245	310	340
Height	mm	969	1179	1339	1499	1789	2109
Cylinder connections							
Cold mains inlet		22 mm compression					
DHW outlet		22 mm compression					
Balanced pressure cold water outlet		22 mm compression					
Secondary return		G 3/4					
Primary flow		22 mm compression (on 2 port valve)					
Primary return		22 mm compression					
Electrical connections							
3 kW Immersion heater		230V, 50 Hz					
2 port valve		230V, 50 Hz					
Cylinder thermostat		230V, 50 Hz					
Coil Specifications							
Heat up times	mins	16.2	16.8	16.5	20.7	24.8	27.8
Heat loss	kW/24h	1.4	1.7	1.8	1.9	2.1	2.4

Note: Heat up time based on a primary flow rate of 15 l/min at 82°C. Temperature rise is from 15°C to 60°C for 70% of the cylinder volume.

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