

# Simply Vento



***Cyclonic vacuum degassing***  
For heating systems

# Simply Vento

Simply Vento is a *cyclonic* vacuum degasser for heating systems. Through the process of rotating the water in a special cyclonic vacuum vessel, the gases are separated completely from the water. Its use is particularly recommended where performance, compact design and precision are required. The **BrainCube Connect** control panel allows a new level of connectivity, enabling communication with the BMS system, other BrainCubes as well as remote operation of the pressurisation system through live viewing.



## Key features

- > **Higher Efficiency Cyclonic vacuum degassing**  
Significantly higher efficiency than most other vacuum degassing systems.
- > **Optional sound-absorbing wall bracket**  
For installation locations particularly sensitive to structure-borne sound
- > **Plug & Play installation and start-up**  
Connect unit to the installation  
Plug in power supply  
Follow the instructions displayed on the BrainCube
- > **Compact design for floor and wall hanging installation**
- > **Remote Access and Troubleshooting**  
Integrated standard connections to our IMI Webserver and to BMS.

## Technical description – Control unit TecBox

### Applications:

Heating systems. For systems according to EN 12828, SWKI HE301-01, EN 12976, ENV 12977, EN 12952, EN 12953,

### Media:

Non-aggressive and non-toxic system media.  
Addition of antifreeze agent up to 50%.

### Pressure:

Min. admissible pressure, PSmin: -1 bar  
Max. admissible pressure, PS: 10 bar

### Temperature:

Min. admissible temperature, TSmin: 0°C  
Max. admissible temperature, TS: 90°C  
Max. admissible ambient temperature, TA: 40°C  
Min. admissible ambient temperature, T Amin: 0°C

### Supply voltage:

1 x 230 V (± 10 %) / 50 Hz

### Electrical connections:

Onsite fuses according to power demand and local norms  
3 potential free outputs (NO) for external alarm indication (230V max. 2A)  
1 RS 485 In/Output  
1 Ethernet RJ45 plug socket  
1 USB Hub plug socket

### Enclosure class:

IP54 according to EN 60529

### Mechanical connections:

Sin1: inlet from the system G1/2"  
Sout: outlet to the system G1/2"

### Material:

Metal components with medium contact: carbon steel, cast iron, stainless steel, AMETAL®, brass, gun metal.

### Transportation and storage:

In frostless, dry places.

### Standard:

Constructed according to LV-D. 2014/35/EU  
EMC-D. 2014/30/EU

## Function, Equipment, Features

### Control unit TecBox

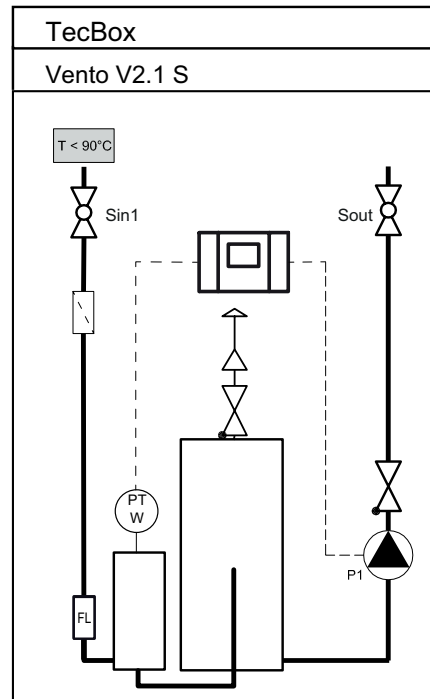
- BrainCube Connect control for an intelligent, fully automatic, safe system operation. Self-optimising with memory function.
- Resistive 3.5" TFT illuminated colour touch display. Web-based interface with remote control and live view. User-friendly, operation-orientated menu layout with slide and tap operation, step-by-step start up procedure guide and direct help in pop-up windows. Representation of all relevant parameters and operation status in plain text and/or graphical, multilingual.
- Standardised integrated connections (Ethernet, RS 485) to the IMI webserver and BMS (Modbus and IMI Pneumatex protocol).
- Software updates and data logging possible via USB connection
- Data logging and system analysis, chronological message memory with prioritisation, remotely controllable with live view.
- High quality metal cover.

### Vacuum Degassing

- Flow capacity of approx. 200 l/h for system degassing.
- Vacusplit: Degassing programs for permanent operation with cyclonic technology. Gas under saturation of system water of nearly 100%.
- Oxystop degassing: Safely degasses system in a specially designed cyclone vessel (inside the Tecbox). Protects the system against corrosion.

## Principle scheme

### Simply Vento

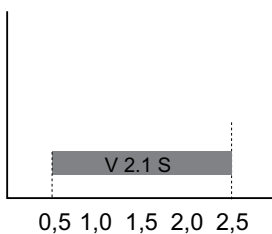


## DNe standard values for connection pipes for Simply Vento

|                           |            | Simply Vento |
|---------------------------|------------|--------------|
| Length up to approx. 10 m | <b>DNe</b> | 25           |
| Length up to approx. 20 m | <b>DNe</b> | 25           |
| Length up to approx. 30 m | <b>DNe</b> | 32           |

## Quick selection

Operation range dpu  
Type

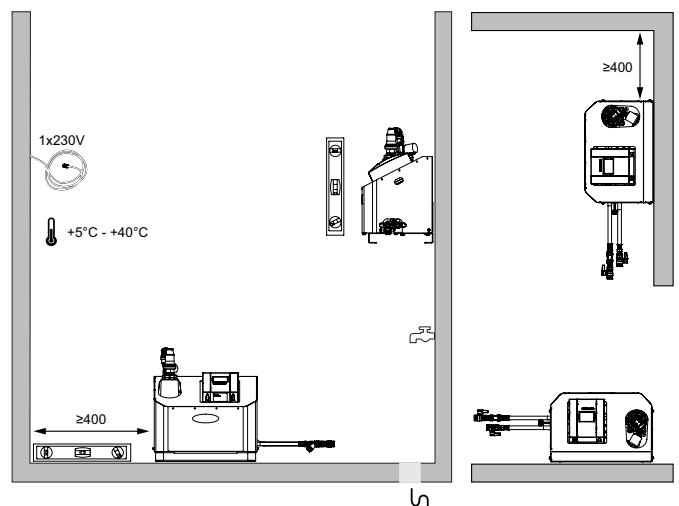


dpu

|          |     | Simply Vento |
|----------|-----|--------------|
| dpu min. | bar | 0.5          |
| dpu max. | bar | 2.5          |

## Installation

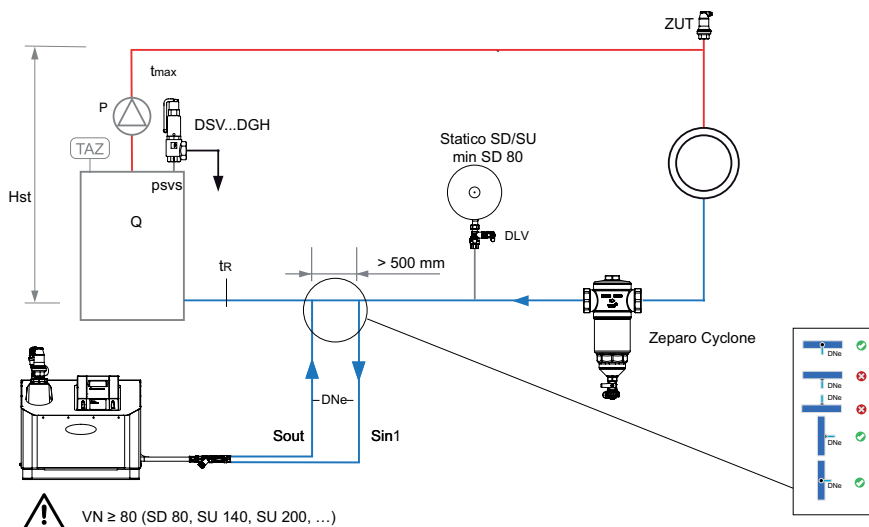
### Simply Vento



## Application examples

### Example for heating systems, return temperature $t_r \leq 90^\circ\text{C}$

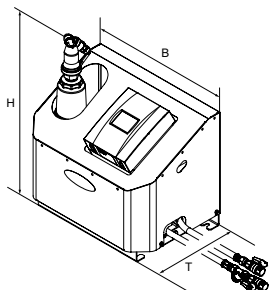
(May require changes to meet local legislation)



### Zeparo

Air vent Zeparo ZUT or ZUP at each high point for venting during the filling and during the draining process.  
Zeparo Cyclone: Separator for sludge and magnetite in each system in the main return to the heat generator.

## Control unit TecBox, Simply Vento Heating



### Simply Vento

Cyclonic vacuum degassing unit. 1 pump, cyclonic vacuum degassing unit and BrainCube Connect control.

2 connection hoses with ball valves. Connections G1/2"

| Type               | B   | H   | T   | m    | Pel  | VNd  | SPL     | dpu       | EAN           | Article No   |
|--------------------|-----|-----|-----|------|------|------|---------|-----------|---------------|--------------|
|                    |     |     |     | [kg] | [kW] | [m³] | [dB(A)] | [bar]     |               |              |
| <b>10 bar (PS)</b> |     |     |     |      |      |      |         |           |               |              |
| V 2.1 S            | 520 | 575 | 350 | 28   | 0,75 | 10   | ~55*    | 0,5 - 2,5 | 7640161642287 | 303030-10400 |

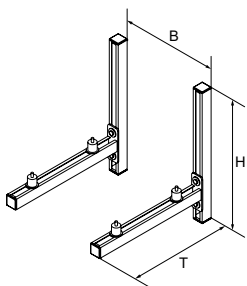
VNd = Water capacity for which a device is rated

Pel = Electric load

dpu = Working pressure range

\*) Pump operation

## Sound-absorbing wall bracket for Vento VS/VF Connect



### Wall bracket WB VSF

Sound-absorbing wall bracket for Simply Vento Connect and Vento Compact Connect. Reliably reduces the transmission of structure-borne sound from the unit to the mounting wall to a minimum.

| Type   | B   | H   | T   | m    | EAN           | Article No   |
|--------|-----|-----|-----|------|---------------|--------------|
|        |     |     |     | [kg] |               |              |
| WB VSF | 376 | 500 | 520 | 7,5  | 7640161644557 | 301032-30021 |

B = Centre-to-centre distance for optimum mounting

The products, texts, photographs, graphics and diagrams in this document may be subject to alteration by IMI Hydronic Engineering without prior notice or reasons being given. For the most up to date information about our products and specifications, please visit [www.imi-hydronic.com](http://www.imi-hydronic.com).