Vento Connect

Cyclonic vacuum degassing
For heating, solar, and chilled water systems
Vento Connect

Vento Connect is a cyclonic vacuum degasser for heating and solar systems, and chilled water systems. Its use is particularly recommended where high performance, compact design and precision are required. The industrial version VI is especially designed for high pressure applications up to 20.5 bar. The new 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.

- **Direct degassing of make-up water**
  For additional protection against corrosion.

- **Easy Commissioning, Remote Access and Trouble-shooting**
  Integrated standard connections to our IMI Webserver and to BMS.

- **Vento Compact**
  Compact design for floor and wall hanging installation.

- **Full range**
  Serving installations from 0.5 to 20.5 bar

**Technical description – Control unit TecBox**

**Applications:**

Heating, solar and chilled water 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: see Articles

**Temperature:**

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

**Supply voltage:**

Vento V/VF:
1 x 230 V (± 10 %) / 50 Hz
Vento VI:
Main voltage: 3x400V (± 10%) / 50Hz (3P+PE)
Control voltage: 230V (± 10%) / 50Hz (P+N+PE)

**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
Terminal strip in PowerCube for direct wiring (Vento VI).

**Enclosure class:**

IP54 according to EN 60529

**Mechanical connections:**

Vento V/VI:
Sin1: inlet from the system G3/4”
Sout: outlet to the system G3/4”
Swm: inlet water make-up G3/4”

Vento VF:
Sin1: inlet from the system G1/2”
Sout: outlet to the system G1/2”
Swm: inlet water make-up G3/4”

**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.
- Periodical automatic self-test, daily checking the vacuum. The BrainCube Connect generates an alarm if necessary.
- High quality metal cover.

Vacuum Degassing
- Flow capacity of approx. 1000 l/h (Vento V/VI) and 200 l/h (Vento Compact) for system degassing.
- Vacusplit: Degassing programs for permanent operation with cyclonic technology. Gas under saturation of system water of nearly 100%. Eco automatic operation when no air is detected, savings on electricity consumption of the pump.
- Oxystop degassing: Direct degassing of make-up water. Significant oxygen reduction in the make-up water. Safely degasses both system and make-up water in a specially designed cyclone vessel (inside the Tecbox), with the advantage of low keeping temperature of the expansion vessel, without the need to insulate the vessel. Protects the system against corrosion.

Water make-up
- Fillsafe: water-make up monitoring and control with integrated contact water flow meter and solenoid valve.
- Connection for optional Pleno P BA4R/AB5(R) water make-up devices for tap water protection following EN 1717.
- Softsafe monitoring and control for an optional refill water treatment device.

DNe standard values for connection pipes for Vento V/VI/Compact

<table>
<thead>
<tr>
<th>Length up to approx. 5 m</th>
<th>V 2.1</th>
<th>V 4.1</th>
<th>V 6.1</th>
<th>V 8.1</th>
<th>V 10.1</th>
<th>V 14.1</th>
<th>V 19.1</th>
<th>V 25.1</th>
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<tbody>
<tr>
<td>Length up to approx. 10 m</td>
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Quick selection

Operation range dpu

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<tr>
<th>Type</th>
<th>V 2.1</th>
<th>V 4.1</th>
<th>V 6.1</th>
<th>V 8.1</th>
<th>V 10.1</th>
<th>V 14.1</th>
<th>V 19.1</th>
<th>V 25.1</th>
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<tbody>
<tr>
<td>dpu</td>
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<td>dpu min</td>
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<td>3.5</td>
<td>5.5</td>
<td>6.5</td>
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<tr>
<td>dpu max</td>
<td>bar</td>
<td>2.5</td>
<td>2.5</td>
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<td>4.5</td>
<td>6.5</td>
<td>10</td>
<td>15.5</td>
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Equipment

Connection pipes
Vento V_: table DNe

Pleno Refill
Water softening and demineralization modules in combination with Vento V Connect. The control is made through the BrainCube of the TecBox. Connected water softening units must have a minimum flow rate of 1300 l/h for direct connection. If the water treatment unit has a lower flow rate a flow limiter in the inlet of the water meter must be used (a 240 l/h flow limiter is enclosed with the Vento).

Pleno
Water make-up modules in combination with Vento V Connect. Control is made through the BrainCube of the Vento V TecBox.

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

Further accessories, product and selection details: Datasheets Pleno Refill, Zeparo and Accessories.

Principle scheme

Vento V/VI Connect
Grey area is optional

<table>
<thead>
<tr>
<th>Pleno / Pleno Refill</th>
<th>TecBox</th>
<th>TecBox</th>
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</thead>
<tbody>
<tr>
<td>Pleno P BA4 R</td>
<td>Vento V 1 E(C)</td>
<td>Vento VI.1 (C)</td>
</tr>
<tr>
<td>Pleno P AB 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pleno P AB5 R + Pleno Refill</td>
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<td></td>
</tr>
<tr>
<td>Pleno P BA4 R + Pleno Refill</td>
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Vento Compact Connect (V 2.1 FE)
Grey area is optional

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<thead>
<tr>
<th>Pleno / Pleno Refill</th>
<th>TecBox</th>
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<tr>
<td>Modul A Refill-IN</td>
<td>Pleno Refill</td>
</tr>
<tr>
<td>Modul B Refill-OUT</td>
<td>Vento Compact (V 2.1 FE)</td>
</tr>
</tbody>
</table>

Pleno P BA4 R = Modul A + Modul B
Installation

Vento V/VI Connect

+5°C - +40°C

Vento V: 1x230V
Vento VI: 3x400V
1x230V

≥ 400 mm

≥ 600 mm

Vento V 2.1FE Connect

+5°C - +40°C

1x230V

≥ 400 mm
Application examples

Vento V/VI/VF Connect for heating
TecBox with 1 pump, cyclonic vacuum degassing and Pleno P BA4 R for water make-up.

Example for heating systems, return temperature $t_r \leq 90^\circ C$
(May require changes to meet local legislation)

Vento V/VI 1.EC Connect for cooling
TecBox with 1 pump, cyclonic vacuum degassing, Pleno P BA4 R for water make-up and Pleno Refill for water treatment unit for softening or demineralising the make-up water.

Example for cooling systems, return temperature $0^\circ C < t_r \leq 5^\circ C$
(May require changes to meet local legislation)

Zeparo G-Force for the central separation of sludge.
Zeparo ZUT for automatic venting during filling and during draining.
Further accessories, product and selection details, see: Datasheet Pleno Connect, Zeparo and Accessories.
Control unit TecBox, Vento Compact Connect Heating

Vento Compact Connect
Cyclonic vacuum degassing unit. 1 pump and 2 solenoid valves, cyclonic vacuum degassing unit, connection for water make-up with solenoid valve and water meter, and BrainCube Connect control. 2 connection hoses with ball valves. Connections G1/2“.

<table>
<thead>
<tr>
<th>Type</th>
<th>B</th>
<th>H</th>
<th>T</th>
<th>m</th>
<th>Pel</th>
<th>VNd</th>
<th>SPL</th>
<th>dpu</th>
<th>EAN</th>
<th>Article No</th>
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<td>-55*</td>
<td>0.5 - 2.5</td>
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</table>

T = Depth of the device
VNd = Water capacity for which a device is rated
Pel = Electric load
dpu = Working pressure range
* Pump operation

Control unit TecBox, Vento Connect Heating

Vento V/VI .1 E Connect
Cyclonic vacuum degassing unit. 1 pump and 2 solenoid valves (Vento V), 1 solenoid valve and 1 motor driven valve (Vento VI), 1 cyclonic vacuum degassing unit, connection for water make-up with solenoid valve and water meter, and BrainCube Connect control.

<table>
<thead>
<tr>
<th>Type</th>
<th>B</th>
<th>H</th>
<th>T</th>
<th>m</th>
<th>Pel</th>
<th>VNd</th>
<th>SPL</th>
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<tr>
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<td>530</td>
<td>40</td>
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<td>300</td>
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<td>10.5-20.5</td>
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</table>

T = Depth of the device
VNd = Water capacity for which a device is rated
Pel = Electric load
dpu = Working pressure range
* Pump operation
Control unit TecBox, Vento Connect Cooling

Vento V/VI.1 EC Connect
Cyclonic vacuum degassing unit. 1 pump and 2 solenoid valves (Vento V), 1 solenoid valve and 1 motor driven valve (Vento VI), 1 cyclonic vacuum degassing unit, connection for water make-up with solenoid valve and water meter, and BrainCube Connect control. Cooling insulation with condensation water protection.

<table>
<thead>
<tr>
<th>Type</th>
<th>B</th>
<th>H</th>
<th>T</th>
<th>m [kg]</th>
<th>Pel [kW]</th>
<th>VNd [m³]</th>
<th>SPL [dB(A)]</th>
<th>dpu [bar]</th>
<th>EAN</th>
<th>Article No</th>
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<tr>
<td>V 4.1 EC</td>
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</table>

T = Depth of the device
VNd = Water capacity for which a device is rated
Pel = Electric load
dpu = Working pressure range
*) Pump operation
Pleno P water make-up module for Vento V/VI/VF

**Pleno P BA4 R**
Hydraulic unit for water make-up operation with Vento/Transfero Connect, as well as Simply Compresso C 2.1-80 SWM. Features a shut off valve, check valve, filter and a type BA backflow preventer (protection class 4) according to EN 1717. With connection for Pleno Refill modules.
Connection (SWM): G1/2

<table>
<thead>
<tr>
<th>Type</th>
<th>PS [bar]</th>
<th>B</th>
<th>L</th>
<th>H</th>
<th>m [kg]</th>
<th>qwm [l/h]</th>
<th>EAN</th>
<th>Article No</th>
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<td>1,1</td>
<td>350*</td>
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</tr>
</tbody>
</table>

* with V/VI
** with Vento Compact
*** when using flow limiter for operation with low flow water treatment cartridges

Pleno P water make-up modules for Vento V/VI

**Pleno P AB5**
Hydraulic unit for water make-up operation with Vento/Transfero Connect. Consists of a breaktank type AB (protection class 5) according EN 1717. For installation on the back of each unit. Can be used for 3rd party softening modules which do not fulfil the requirement of qwm min 1300 l/h and therefore can’t be directly connected.

<table>
<thead>
<tr>
<th>Type</th>
<th>PS [bar]</th>
<th>T</th>
<th>H1</th>
<th>H2</th>
<th>m [kg]</th>
<th>qwm [l/h]</th>
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<th>Article No</th>
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<td>250</td>
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<td>813 3320</td>
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**Pleno P AB5 R**
Hydraulic unit for water make-up operation with Vento/Transfero Connect. Consists of Pleno P BA4 R back flow preventer and Pleno P AB5 modules, with protection class 5 according to EN 1717.

<table>
<thead>
<tr>
<th>Type</th>
<th>PS [bar]</th>
<th>T</th>
<th>H1</th>
<th>H2</th>
<th>m [kg]</th>
<th>qwm [l/h]</th>
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</table>

qwm = maximum water make-up volume
T = Depth of the device
### Pleno Refill

Hydraulic unit for water softening together with Vento/Transfero Connect Tec Boxes. Filter with 25 µm mesh size to protect the hydronic system. Softening bottle filled with high grade resin. 3/4” swivelling nut, 3/4” external thread suitable for flat gasket. Nominal pressure: PS 8 Max. working temperature: 45°C Min. working temperature: > 4°C

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>$S_{in}$</th>
<th>$S_{out}$</th>
<th>D</th>
<th>H</th>
<th>L</th>
<th>m [kg]</th>
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<td>16000</td>
<td>G3/4</td>
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<td>G3/4</td>
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<td>466</td>
<td>475</td>
<td>12,5</td>
<td>7640161630482</td>
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<tr>
<td>Refill 48000</td>
<td>48000</td>
<td>G3/4</td>
<td>G3/4</td>
<td>270</td>
<td>458</td>
<td>475</td>
<td>15,7</td>
<td>7640161630499</td>
<td>813 3230</td>
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</tbody>
</table>

### Pleno Refill Demin

Hydraulic unit for water demineralisation together with Vento/Transfero Connect Tec Boxes. Filter with 25 µm mesh size to protect the hydronic system. Desalination bottle filled with high grade resin. 3/4” swivelling nut, 3/4” external thread suitable for flat gasket. Nominal pressure: PS 8 Max. working temperature: 45°C Min. working temperature: > 4°C

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>$S_{in}$</th>
<th>$S_{out}$</th>
<th>D</th>
<th>H</th>
<th>L</th>
<th>m [kg]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
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<td>475</td>
<td>15,7</td>
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<td>813 3270</td>
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</table>

→ = Flow direction

**Additional information:**
**Calculation:** Software HySelect
**Further accessories, product and selection details, see:** Datasheet Pleno, Zeparo and Accessories.
Wiring diagrams - Vento V

Power supply Vento V/VF

- **F201**
  - Sicherung/ fusible fuse
  - 10 A / 250V / 6x20
- **LINE**
  - Netzversorgung
  - 230 V 50 Hz
  - 10A / 3 x 1.0 mm²
- **P1**
  - Pumpe
  - Pump
  - Pump
- **V1**
  - Überstrom-ventil
  - Spill valve
- **V3**
  - Pumpenventil
  - Pump valve
- **V4**
  - Wasser-makeup valve
- **WM**
  - Nachspeiseventil
  - Water make up valve

Gerätestecker
- Fiche
- Main plug
- 10 A

Diagrams for the wiring of the Vento V/vent electric network supply.

Safety Extra Low Voltage connections

- **IA1**
  - Klemmen Ausführung
  - Version des bornes
  - Terminal execution
- **IA2**
  - SELV

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **IA3**
- **IA4**
- **IA5**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **OD1**
- **OD2**
- **OD3**
- **OD4**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **ID1**
- **ID2**
- **ID3**
- **ID4**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **OA1**
- **OA2**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **IDA1**
- **IDA2**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **IA1**
- **IA2**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **V 10/14**
  - nur / seulement / only

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **GND IN**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **OUT**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **ECO**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **PT 15**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.

- **PT 15**

Diagrams for the wiring of the safety extra low voltage connections for the Vento V/vent electric network supply.
Communication

SELV (≤ 35 VDC)

Jumper (RS485):
off = Offen / déconnecté / open
on = Gesteckt / connecté / connected

LAN / Ethernet

FT
Kontaktwasserzähler
Compteur d'eau à
impulsions
Flowsensor

RS485
Interface

USB
Wiring diagrams - Vento VI

Power supply Vento VI at PowerCube PCI

230V Section of the BrainCube

P1: Pump / pompe / pump
P1: Druckbereitschaft / Fase de chuta / Spill valve
W1: Nachspeisewelle / Fase d'appoint d'eau / Meter make up valve
Safety Extra Low Voltage connections at the BrainCube

Communication

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