

Vento

Vacuum degassing system



PNEUMATEX

Pressurisation & Water Quality › Balancing & Control › Thermostatic Control

ENGINEERING ADVANTAGE

Pressure drop degasser according to the vacusplit principle. Through the atomizing process of the water in a special vacuum vessel, the gases are separated completely from the water. A water makeup system may be integrated as an option. It is used in heating, solar and cooling water systems to facilitate central venting of the system and minimise corrosion.



Technical description

Applications:

Heating, solar and chilled water systems.
For systems according to EN 12828, EN 12976, ENV 12977, EN 12952, EN 12953.

Pressure:

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

Media:

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

Temperature:

Max. admissible temperature, TS: see Articles
Min. admissible temperature, TSmin: 0 °C
Max. admissible ambient temperature, TU: 40 °C
Min. admissible ambient temperature, TUmin: 0°C
Max. admissible temperature for water make-up, TW: 30 °C (VP)

Supply voltage:

230 V/50 Hz
3 x 400 V/50 Hz (VP...PEC)

Enclosure class:

IP 54 according to EN 60529

Sound pressure level:

55 dB(A)
74 dB(A) (VP .2 EC)
51 dB(A) (VP 13.1 PEC)
53 dB(A) (VP 19.1 PEC)

Material:

In essence: steel, brass and bronze

Function, Equipment, Features:

- BrainCube control. Self-optimising with memory function.
- Vacusplit spray-type degassing of the system and make-up water in a vacuum vessel.
- Gas-content dependent eco-automatic operation (V...E(C), VP...E(C), VP...PEC).
- Eco-interval operation for interval degassing and continuous degassing.
- Fillsafe water make-up monitoring. With possibility to control water make-up through a Pleno P (V). With contact water meter and a break tank type AB according to EN 1717, SVGW-tested (VP, VP...PEC).
- Cooling version insulated and vapor sealed V...C, V...EC, VP...EC, VP...PEC).
- Isolating valves to the system.
- Floor standing.
- High quality metal cover with handles.

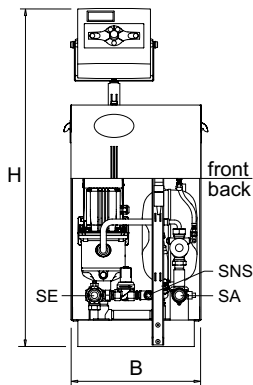
Transportation and storing:

In frostless, dry places.

Approvals:

CE-tested according to the requirements of the European Directives PED/DEP 97/23/EC, 2004/108/EC, 2006/95/EC.

Control unit TecBox, Vento V – Articles



Vento V.1

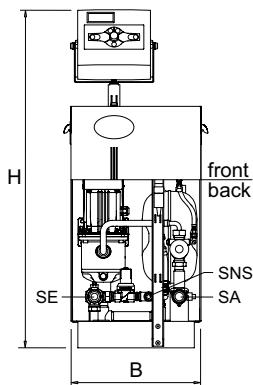
Degassing.

Eco-interval operation for interval degassing and continuous degassing.

1 pump.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	EAN	Article no
8 bar (PS) / 70°C (TS)									
V 3.1	390	1000	490	29	0,6	100	1,0-3,0	7640148632218	812 1004



Vento V.1 E

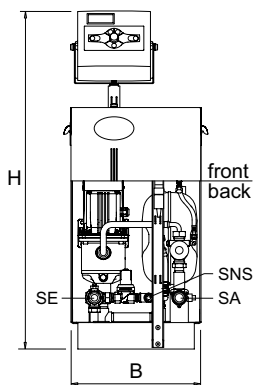
Degassing.

Gas-content dependent eco-automatic operation.

1 pump.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA kW	VA [m³]	DPp [bar]	EAN	Article no
8 bar (PS) / 70°C (TS)									
V 4.1 E	390	1000	490	29	0,6	200	1,0-3,0	7640148632225	812 1000
V 6.1 E	390	1000	490	33	1,1	200	1,5-4,5	7640148632232	812 1001
10 bar (PS) / 90°C (TS)									
V 8.1 E	500	1000	490	40	1,5	200	2,0-5,7	7640148632249	812 1002
V 10.1 E	500	1000	490	42	1,5	200	3,5-7,5	7640148632256	812 1003



Vento V.1 C – Cooling version

Degassing.

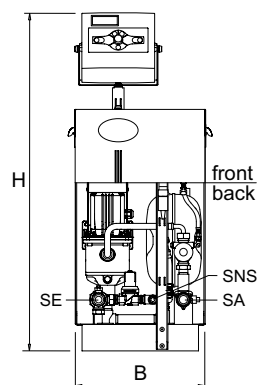
Eco-interval operation for interval degassing and continuous degassing.

1 pump.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	EAN	Article no
8 bar (PS) / 70°C (TS)									
V 3.1C	390	1000	490	30	0,6	100	1,0-3,0	7640148632263	812 1024

T = Depth of the device



Vento V.1 EC – Cooling version

Degassing.

Gas-content dependent eco-automatic operation.

1 pump.

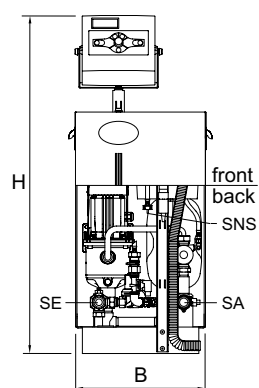
Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	EAN	Article no
8 bar (PS) / 70°C (TS)									
V 4.1 EC	390	1000	490	30	0,6	200	1,0-3,0	7640148632270	812 1020
V 6.1 EC	390	1000	490	34	1,1	200	1,5-4,5	7640148632287	812 1021
10 bar (PS) / 90°C (TS)									
V 8.1 EC	500	1000	490	41	1,5	200	2,0-5,7	7640148632294	812 1022
V 10.1 EC	500	1000	490	43	1,5	200	3,5-7,5	7640148632300	812 1023

T = Depth of the device

Accessories for control modules: Communication module.

Control unit TecBox, Vento VP – Articles



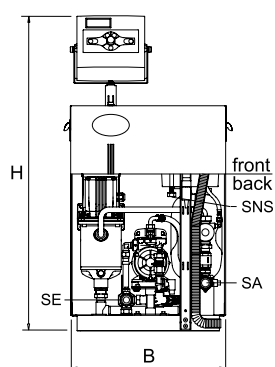
Vento VP.1 E

Degassing, water make-up. Gas-content dependent eco-automatic operation.

1 pump.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	VNS [l/h]	EAN	Article no
8 bar (PS) / 70°C (TS)										
VP 4.1 E	390	1000	490	32	0,6	200	1,0-3,0	200	7640148632317	812 1010
VP 6.1 E	390	1000	490	36	1,1	200	1,5-4,5	200	7640148632324	812 1011
10 bar (PS) / 90°C (TS)										
VP 8.1 E	500	1000	490	43	1,5	200	2,0-5,7	200	7640148632331	812 1012
VP 10.1 E	500	1000	490	45	1,5	200	3,5-7,5	200	7640148632348	812 1013



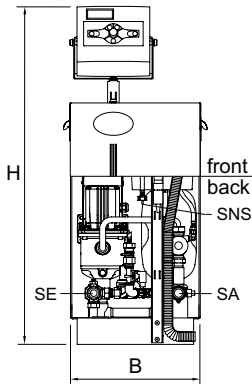
Vento VP.2 E

Degassing, water make-up. 2 pumps. Including a reserve pump for water make up.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	VNS [l/h]	EAN	Article no
8 bar (PS) / 70°C (TS)										
VP 6.2 E	500	1000	490	44	1,8	200	1,5-4,5	200	7640148632355	812 1041
10 bar (PS) / 90°C (TS)										
VP 10.2 E	500	1000	490	53	2,2	200	3,5-7,5	200	7640148632362	812 1043

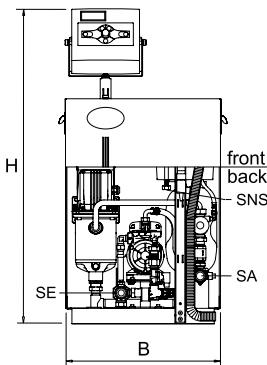
T = Depth of the device

**Vento VP .1 EC – Cooling version**

Degassing, water make-up. 1 pump.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	VNS [l/h]	EAN	Article no
8 bar (PS) / 70°C (TS)										
VP 4.1 EC	390	1000	490	33	0,6	200	1,0-3,0	200	7640148632379	812 1030
VP 6.1 EC	390	1000	490	37	1,1	200	1,5-4,5	200	7640148632386	812 1031
10 bar (PS) / 90°C (TS)										
VP 8.1 EC	500	1000	490	44	1,5	200	2,0-5,7	200	7640148632393	812 1032
VP 10.1 EC	500	1000	490	46	1,5	200	3,5-7,5	200	7640148632409	812 1033

**Vento VP .2 EC – Cooling version**

Degassing, water make-up. 2 pumps. Including a reserve pump for water make up.

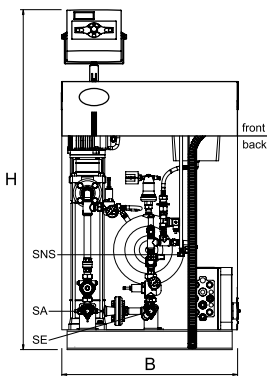
Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	VA [m³]	DPp [bar]	VNS [l/h]	EAN	Article no
8 bar (PS) / 70°C (TS)										
VP 6.2 EC	500	1000	490	45	1,8	200	1,5-4,5	200	7640148632416	812 1051
10 bar (PS) / 90°C (TS)										
VP 10.2 EC	500	1000	490	54	2,2	200	3,5-7,5	200	7640148632423	812 1053

T = Depth of the device

Accessories for control modules: Communication module.

Control unit TecBox, Vento VP...PEC – Articles

**Vento VP .1 PEC – Cooling version**

Degassing, water make-up. 1 pump.

Connections: in (SE) Rp1, out (SA) Rp1, water make-up (SNS) Rp1 / 2.

Type	B	H	T	[kg]	PA [kW]	SPL [dB(A)]	VA [m³]	DPp [bar]	VNS [l/h]	EAN	Article no
20 bar (PS) / 90°C (TS)											
VP 13.1 PEC	700	1300	540	70	2,0	51	200	4,0-10,0	200	7640148632430	812 1034
VP 19.1 PEC	700	1300	540	74	3,0	53	200	5,0-16,0	200	7640148632447	812 1035

T = Depth of the device

Accessories for control modules: Communication module.

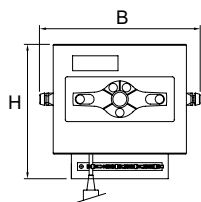
Accessories for control modules

Communication module for BrainCube control

Max. admissible ambient temperature, TU: 40°C

Enclosure class: IP 54

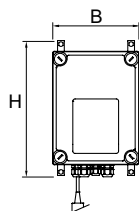
Supply voltage: 230 V/50 Hz



ComCube DCD

RS 485 interface for communicating with BrainCube, 6 digital inputs for the use of external volt free signals (NO), 9 volt free digital outputs, freely programmable; all outputs can be inverted. Wall mounted, fixing elements for cable management.

Type	B	H	T	[kg]	PA [kW]	EAN	Article No
DCD	270	230	260	0,5	0,1	7640148638715	814 1000



ComCube DCA

2 separated analogue outputs 4-20 mA for connection to BMS, isolation voltage 2.5 kVAC. All cabling inside the casing, wall mounted.

Type	B	H	T	[kg]	PA [kW]	EAN	Article No
DCA	190	260	180	0,5	0,1	7640148638739	814 1010

T = Depth of the device

Additional information

System design: Online calculation software *SelectPI*

Abbreviations and terminology: Datasheet *Planning and calculation*.

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04.2012