

Compresso

Pressure maintenance systems
with compressors



PNEUMATEX

Pressurisation & Water Quality › Balancing & Control › Thermostatic Control

ENGINEERING ADVANTAGE

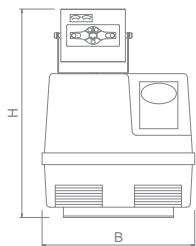
Compresso is a precision pressurisation system with compressors for heating, solar and chilled water systems. It is especially suitable in situations where compactness and precision are required. The system capacity range lies between pressurisation with Statico and Transfero.

Compresso C

Control unit TecBox | precision pressure maintenance ± 0.1 bar



- heating, solar and chilled water systems | for systems according to EN 12828, solar systems according to EN 12976, ENV 12977 with on-site excess temperature protection in case of power blackout
- silent operation | particularly silent | pressure-optimised start mode
- fillsafe water make-up monitoring | with possibility to control water make-up through a Pleno P
- BrainCube control | self-optimising with memory function
- variable installation in front of or next to the primary vessel
- including assembly kit for the air-side connection of the TecBox with the primary vessel
- addition of antifreeze agent up to 50%
- CE-tested according to the requirements of the European Directives PED/DEP 97/23/EC, 2004/108/EC, 2006/95/EC

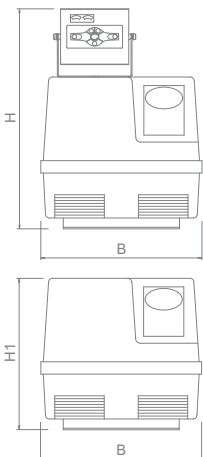


Compresso C 20.1

- 1 compressor | valve manifold with 1 spill valve and safety valve
- with sound absorbing case

TS: 70 °C TSmin: 5 °C TU: 40 °C PSmin: 0 bar
 IP: 54 U: 230 V/50 Hz

Type	PS bar	B mm	H mm	T mm	G kg	PA kW	SPL dB(A)	Article no.
C 20.1-6	6	520	750	360	35	1.5	64	810 1034
C 20.1-10	10	520	750	360	35	1.5	64	810 1035



Compresso C 20.2

- 2 compressors | valve manifold with 2 spill valves and safety valve | switching is time and load dependant
- consists of primary and extension module each with sound absorbing case

TS: 70 °C TSmin: 5 °C TU: 40 °C PSmin: 0 bar
 IP: 54 U: 230 V/50 Hz

Type	PS bar	B mm	H mm	H1 mm	T mm	G kg	PA kW	SPL dB(A)	Article no.
C 20.2-6	6	520	750	500	360	69	3.0	64	810 1074
C 20.2-10	10	520	750	500	360	69	3.0	64	810 1075

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- › Accessories for control modules • Master-Slave » page 11
- › Accessories for pressure maintenance • Intermediate vessel » Datasheet Accessories

Compresso CX

Control unit TecBox | precision pressure maintenance ± 0.1 bar



- heating, solar and chilled water systems | for systems according to EN 12828, solar systems according to EN 12976, ENV 12977 with on-site excess temperature protection in case of power blackout
- for oil-free external compressed air | 1 air inlet and 1 air exit valve
- fillsafe water make-up monitoring | with possibility to control water make-up through a Pleno P
- BrainCube control | self-optimising with memory function
- with integrated wall mounting bracket
- including assembly kit for the air-side connection of the TecBox with the primary vessel
- addition of antifreeze agent up to 50%
- CE-tested according to the requirements of the European Directives PED/DEP 97/23/EC, 2004/108/EC, 2006/95/EC

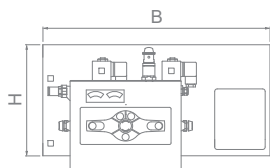
Compresso CX

TS: 70 °C
IP: 54

TSmin: 5 °C
U: 230 V/50 Hz

TU: 40 °C

PSmin: 0 bar



Type	PS bar	B mm	H mm	T mm	G kg	PA kW	Article no.
CX-6	6	450	250	260	15	0.1	810 1204
CX-10	10	450	250	260	15	0.1	810 1206
CX-16	16	450	250	260	15	0.1	810 1208

› Accessories for control modules • Communication module » page 10
• Master-Slave » page 11

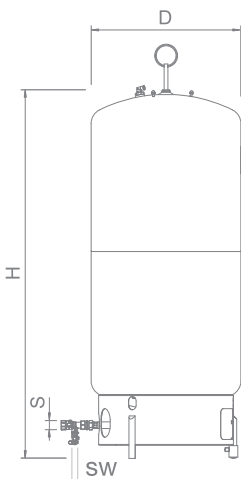
› Accessories for pressure maintenance • Intermediate vessel » Datasheet Accessories



Compresso CU | CU ... E

Expansion vessel

- heating, solar and chilled water systems
- steel, welded | color beryllium
- foot ring for upright assembly
- airproof butyl bag according to EN 13831 and Pneumatex internal standard
- bag can be vented at the top, condensate drain at the bottom
- addition of antifreeze agent up to 50%
- endoscopic inspection opening for internal inspections
- CE design-tested according to PED/DEP 97/23/EC
- 5-year warranty for the vessel



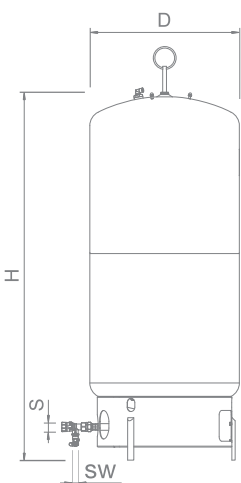
Compresso CU

Primary vessel | measuring foot for content measurement

- including flex tube for the water-side connection and lock shield valve with ball valve for fast draining

TS: 120 °C TSmin: -10 °C TB: 70 °C TBmin: 5 °C
 PSmin: 0 bar

Type	VN litre	PS bar	PSch bar	D mm	H mm	G kg	S	SW	Article no.
CU 200.6	200	6	6	500	1405	36	Rp 1	G ¾	712 1000
CU 300.6	300	6	6	560	1410	45	Rp 1	G ¾	712 1001
CU 400.6	400	6	6	620	1579	65	Rp 1	G ¾	712 1002
CU 500.6	500	6	6	680	1669	76	Rp 1	G ¾	712 1003
CU 600.6	600	6	5	740	1675	83	Rp 1	G ¾	712 1004
CU 800.6	800	6	3.75	740	2169	108	Rp 1	G ¾	712 1005



Compresso CU ... E

Secondary vessel

- including flex tube for the water-side connection and lock shield valve with ball valve for fast draining, assembly kit for the air-side connection of the vessels

TS: 120 °C TSmin: -10 °C TB: 70 °C TBmin: 5 °C
 PSmin: 0 bar

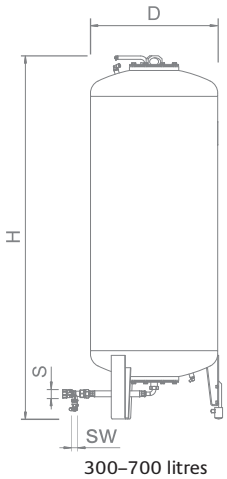
Type	VN litre	PS bar	PSch bar	D mm	H mm	G kg	S	SW	Article no.
CU 200.6 E	200	6	6	500	1405	36	Rp 1	G ¾	712 2000
CU 300.6 E	300	6	6	560	1410	45	Rp 1	G ¾	712 2001
CU 400.6 E	400	6	6	620	1579	65	Rp 1	G ¾	712 2002
CU 500.6 E	500	6	6	680	1669	76	Rp 1	G ¾	712 2003
CU 600.6 E	600	6	5	740	1675	83	Rp 1	G ¾	712 2004
CU 800.6 E	800	6	3.75	740	2169	108	Rp 1	G ¾	712 2005

Compresso CG

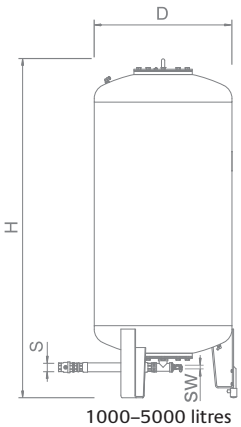
Expansion vessel



- heating, solar and chilled water systems
- steel, welded | color beryllium
- feet for upright assembly
- including flex tube for the water-side connection and lock shield valve with ball valve for fast draining
- airproof butyl bag according to EN 13831 and Pneumatex internal standard | exchangeable
- bag can be vented at the top, condensate drain at the bottom
- corrosion-protected internal coating for minimum bag wear
- addition of antifreeze agent up to 50%
- two flange openings for internal inspections
- CE design-tested according to PED/DEP 97/23/EC
- 5-year warranty for the airproof butyl bag



300–700 litres



1000–5000 litres

Compresso CG

Primary vessel | measuring foot for content measurement

TS: 120 °C
PSmin: 0 bar

TSmin: -10 °C

TB: 70 °C

TBmin: 5 °C

Type*	VN litre	PS bar	PSCH bar	D mm	H** mm	G kg	S	SW	Article no.
6 bar	CG 300.6	300	6	6	500	1916	140	Rp 1 G ¾	712 1006
	CG 500.6	500	6	6	650	1956	190	Rp 1 G ¾	712 1007
	CG 700.6	700	6	4.2	750	1986	210	Rp 1 G ¾	712 1008
	CG 1000.6	1000	6	3	850	2190	290	Rp 1 ½ G ¾	712 1009
	CG 1500.6	1500	6	2	1016	2332	400	Rp 1 ½ G ¾	712 1010
	CG 2000.6	2000	6	-	1016	2839	680	Rp 1 ½ G ¾	712 1015
	CG 3000.6	3000	6	-	1300	2944	840	Rp 1 ½ G ¾	712 1012
	CG 4000.6	4000	6	-	1300	3588	950	Rp 1 ½ G ¾	712 1013
	CG 5000.6	5000	6	-	1300	4234	1050	Rp 1 ½ G ¾	712 1014
	10 bar	CG 300.10	300	10	10	500	1944	160	Rp 1 G ¾
CG 500.10		500	10	6	650	1987	220	Rp 1 G ¾	712 3001
CG 700.10		700	10	4.2	750	2018	250	Rp 1 G ¾	712 3002
CG 1000.10		1000	10	3	850	2192	340	Rp 1 ½ G ¾	712 3003
CG 1500.10		1500	10	2	1016	2378	460	Rp 1 ½ G ¾	712 3004
CG 2000.10		2000	10	-	1016	2872	760	Rp 1 ½ G ¾	712 3009
CG 3000.10		3000	10	-	1300	2972	920	Rp 1 ½ G ¾	712 3006
CG 4000.10		4000	10	-	1300	3617	1060	Rp 1 ½ G ¾	712 3007
CG 5000.10		5000	10	-	1300	4262	1180	Rp 1 ½ G ¾	712 3008

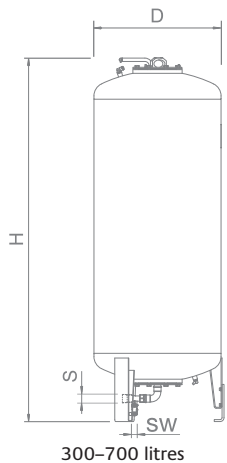
* applications > 10 bar and special vessels upon request ** tolerance 0 /-100



Compresso CG ... E

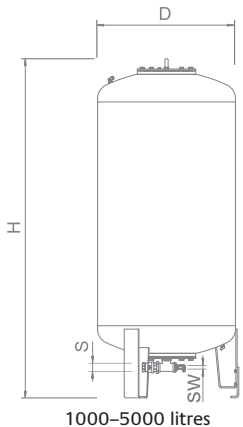
Expansion vessel

- heating, solar and chilled water systems
- steel, welded | color beryllium
- feet for upright assembly
- including assembly kit for the air-side connection of the vessels and lock shield valve for the water-side connection with ball valve for fast draining
- airproof butyl bag according to EN 13831 and Pneumatex internal standard | exchangeable
- bag can be vented at the top, condensate drain at the bottom
- corrosion-protected internal coating for minimum bag wear
- addition of antifreeze agent up to 50%
- two flange openings for internal inspections
- CE design-tested according to PED/DEP 97/23/EC
- 5-year warranty for the airproof butyl bag



Compresso CG ... E
Secondary vessel

TS: 120 °C TSmin: -10 °C TB: 70 °C TBmin: 5 °C
PSmin: 0 bar

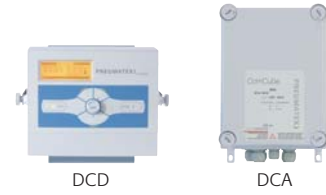


	Type*	VN litre	PS bar	PSch bar	D mm	H** mm	G kg	S	SW	Article no.
6 bar	CG 300.6 E	300	6	6	500	1944	140	Rp 1	G ¾	712 2006
	CG 500.6 E	500	6	6	650	1987	190	Rp 1	G ¾	712 2007
	CG 700.6 E	700	6	4.2	750	2018	210	Rp 1	G ¾	712 2008
	CG 1000.6 E	1000	6	3	850	2192	290	Rp 1 ½	G ¾	712 2009
	CG 1500.6 E	1500	6	2	1016	2378	400	Rp 1 ½	G ¾	712 2010
	CG 2000.6 E	2000	6	-	1016	2872	680	Rp 1 ½	G ¾	712 2015
	CG 3000.6 E	3000	6	-	1300	2972	840	Rp 1 ½	G ¾	712 2012
	CG 4000.6 E	4000	6	-	1300	3617	950	Rp 1 ½	G ¾	712 2013
	CG 5000.6 E	5000	6	-	1300	4262	1050	Rp 1 ½	G ¾	712 2014
	10 bar	CG 300.10 E	300	10	10	500	1944	160	Rp 1	G ¾
CG 500.10 E		500	10	6	650	1987	220	Rp 1	G ¾	712 4001
CG 700.10 E		700	10	4.2	750	2018	250	Rp 1	G ¾	712 4002
CG 1000.10 E		1000	10	3	850	2192	340	Rp 1 ½	G ¾	712 4003
CG 1500.10 E		1500	10	2	1016	2378	460	Rp 1 ½	G ¾	712 4004
CG 2000.10 E		2000	10	-	1016	2872	760	Rp 1 ½	G ¾	712 4009
CG 3000.10 E		3000	10	-	1300	2972	920	Rp 1 ½	G ¾	712 4006
CG 4000.10 E		4000	10	-	1300	3617	1060	Rp 1 ½	G ¾	712 4007
CG 5000.10 E		5000	10	-	1300	4262	1180	Rp 1 ½	G ¾	712 4008

* applications > 10 bar and special vessels upon request ** tolerance 0 /-100

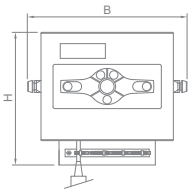
Accessories for control modules

Communication module for BrainCube control



DCD

DCA



ComCube DCD

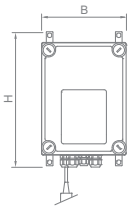
- RS 485 interface for communicating with BrainCube, 6 digital inputs for the use of external volt free signals (NO), 9 volt free digital outputs, freely programmable; all outputs can be inverted
- wall mounted, fixing elements for cable management

TU: 40 °C

IP: 54

U: 230 V/50 Hz

Type	B mm	H mm	T mm	G kg	PA kW	Article no.
DCD	270	230	260	0.5	0.1	814 1000



ComCube DCA

- 2 separated analoge outputs 4-20 mA for connection to BMS, isolation voltage 2.5 kVAC
- all cabeling inside the casing, wall mounted

TU: 40 °C

IP: 54

U: 230 V/50 Hz

Type	B mm	H mm	T mm	G kg	PA kW	Article no.
DCA	190	260	180	0.5	0.1	814 1010

Accessories for control modules

Software expansion

- usage options as Master / Slave, parallel, expanded capacity or 100% redundancy
- remote switching of Master / Slave possible
- cabeling on site, commissioning by Pneumatex Service
- including assembly kit with shut-offs for the air-side connection of the TecBoxes with the primary vessel

Master-Slave DMS 2 | Compresso

parallel operation of 2 Compresso C 10 | C 20

Type	Article no.
DMS 2 C	814 1020

Master-Slave DMS 3 | Compresso

parallel operation of 3 Compresso C 10 | C 20

Type	Article no.
DMS 3 C	814 1025

Master-Slave DMS 4 | Compresso

parallel operation of 4 Compresso C 10 | C 20

Type	Article no.
DMS 4 C	814 1030

Additional information

- System design:**
- »» Datasheet Planning and calculation
 - »» Online calculation software SelectP!
- Short cuts | terms:**
- »» Datasheet Planning and calculation | Glossary

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