

# Compresso CX



**Pressure maintenance systems with external compressed air supply**

*Engineering  
GREAT Solutions*

# Compresso CX

Compresso CX is a precision pressurisation system with external compressed air supply 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.



## Key features

- > **BrainCube control**  
Self-optimising with memory function.
- > **Fillsafe water make-up monitoring**  
With possibility to control water make-up through a Pleno P.

## Technical description – Control unit TecBox

### Applications:

Heating, solar and chilled water systems. For systems according to EN 12828, SWKI 93-1, solar systems according to EN 12976, ENV 12977 with on-site excess temperature protection in case of power blackout.

### Media:

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

### Pressure:

Min. admissible pressure, PSmin: 0 bar  
Max. admissible pressure, PS: see Articles

### Temperature:

Max. admissible ambient temperature, TU: 40°C  
Min. admissible ambient temperature, TUmin: 5°C

### Accuracy:

Precision pressure maintenance  $\pm 0,1$  bar.

### Supply voltage:

230V/50Hz, 230V/60Hz

### Electric load:

See Articles.

### Enclosure class:

IP according to EN 60529  
IP 54

### Material:

Main materials include steel, brass and bronze.

### Transportation and storing:

In frostless, dry places.

### Approvals:

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

## Technical description – Expansion vessels

### Applications:

Only together with Control unit TecBox.  
See Applications under Technical description - Control unit TecBox.

### Media:

Non-aggressive and non-toxic system media.

Addition of antifreeze agent up to 50%.

### Pressure:

Min. admissible pressure, PSmin: 0 bar

Max. admissible pressure, PS: see

Articles

### Temperature:

Max. admissible temperature, TS: 120°C

Min. admissible temperature, TSmin:

-10°C

Max. admissible bag temperature, TB:

70°C

Min. admissible bag temperature, TBmin:

5°C

### Material:

Steel. Color beryllium.

Airproof butyl bag according to

EN 13831.

### Transportation and storing:

In frostless, dry places.

### Approvals:

CE design-tested according to PED/DEP 97/23/EC.

### Warranty:

Compresso CG, CG...E: 5-year warranty for the airproof butyl bag.

Compresso CU, CU...E: 5-year warranty for the vessel.

## Function, Equipment, Features

### Control unit TecBox

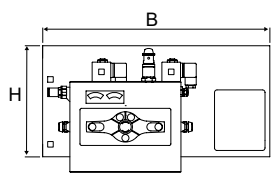
- BrainCube control. Self-optimising with memory function.
- Fillsafe water make-up monitoring. With possibility to control water make-up through a Pleno P .
- With integrated wall mounting bracket.
- Including assembly kit for the air-side connection of the TecBox with the primary vessel.

### Expansion vessels

- Bag can be vented at the top, condensate drain at the bottom.
- Sinus ring for upright assembly (CU, CU...E). Feet for upright assembly (CG, CG...E).
- Airproof butyl bag (CU, CU...E, CG, CG...E), exchangeable (CG, CG...E).
- Endoscopic inspection opening for internal inspections (CU, CU...E). Two flange openings for internal inspections (CG, CG...E).

- Corrosion-protected internal coating for minimum bag wear (CG, CG...E).
- Including flex tube for the water-side connection and lock shield valve with ball valve for fast draining (CU, CG).
- 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 (CU...E, CG...E).

## Control unit TecBox, Compresso CX



### Compresso CX

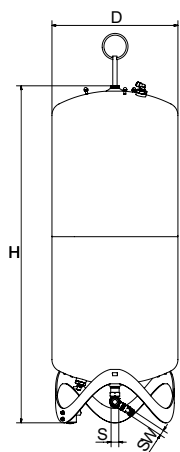
Precision pressure maintenance  $\pm 0.1$  bar

For oil-free external compressed air. 1 air inlet and 1 air exit valve

Type	PS [bar]	B	H	T	[kg]	PA [kW]	EAN	Article No
CX-6	6	450	250	260	15	0,1	7640148630740	810 1204
CX-10	10	450	250	260	15	0,1	7640148630757	810 1206
CX-16	16	450	250	260	15	0,1	7640148630764	810 1208

T = Depth of the device

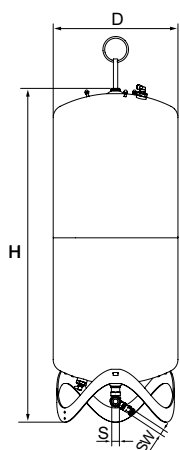
## Expansion vessels



### 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.

Type	VN [l]	D	H	H***	M [kg]	S	SW	EAN	Article No
<b>6 bar (PS)</b>									
CU 200.6	200	500	1340	1364	34	Rp1	G3/4	7640148630771	712 1000
CU 300.6	300	560	1469	1490	40	Rp1	G3/4	7640148630788	712 1001
CU 400.6	400	620	1532	1558	58	Rp1	G3/4	7640148630795	712 1002
CU 500.6	500	680	1627	1656	67	Rp1	G3/4	7640148630801	712 1003
CU 600.6	600	740	1638	1671	80	Rp1	G3/4	7640148630818	712 1004
CU 800.6	800	740	2132	2158	98	Rp1	G3/4	7640148630825	712 1005



### Compresso CU...E

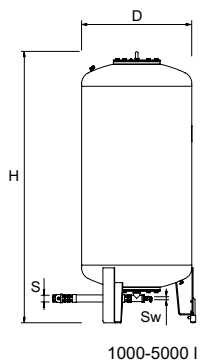
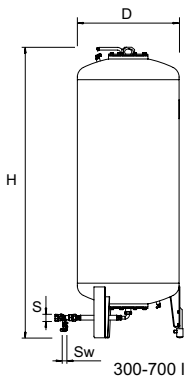
Secondary vessel. Including flex tube for the water-side connection and lock shield valve with ball valve for fast draining, assembly kit for the air-side connection of the vessels.

Type	VN [l]	D	H	H***	M [kg]	S	SW	EAN	Article No
<b>6 bar (PS)</b>									
CU 200.6 E	200	500	1340	1364	33	Rp1	G3/4	7640148630832	712 2000
CU 300.6 E	300	560	1469	1490	39	Rp1	G3/4	7640148630849	712 2001
CU 400.6 E	400	620	1532	1558	57	Rp1	G3/4	7640148630856	712 2002
CU 500.6 E	500	680	1627	1656	66	Rp1	G3/4	7640148630863	712 2003
CU 600.6 E	600	740	1638	1671	79	Rp1	G3/4	7640148630870	712 2004
CU 800.6 E	800	740	2132	2158	97	Rp1	G3/4	7640148630887	712 2005

VN = Nominal volume

\*) Applications > 10 bar and special vessels upon request.

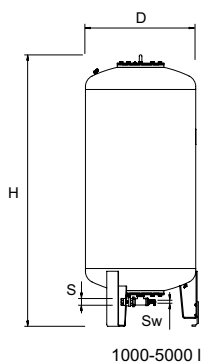
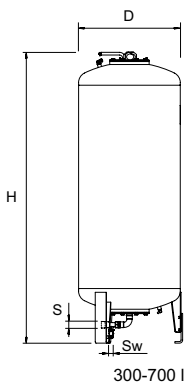
\*\*) Tolerance 0 /-100.



### Compresso CG

Primary vessel. Measuring foot for content measurement.

Type*	VN [l]	D	H**	[kg]	S	SW	EAN	Article No
<b>6 bar (PS)</b>								
CG 300.6	300	500	1916	140	Rp1	G3/4	7640148630894	712 1006
CG 500.6	500	650	1956	190	Rp1	G3/4	7640148630900	712 1007
CG 700.6	700	750	1986	210	Rp1	G3/4	7640148630917	712 1008
CG 1000.6	1000	850	2190	290	Rp1 1/2	G3/4	7640148630924	712 1009
CG 1500.6	1500	1016	2332	400	Rp1 1/2	G3/4	7640148630931	712 1010
CG 2000.6	2000	1016	2839	680	Rp1 1/2	G3/4	7640148630948	712 1015
CG 3000.6	3000	1300	2944	840	Rp1 1/2	G3/4	7640148630955	712 1012
CG 4000.6	4000	1300	3588	950	Rp1 1/2	G3/4	7640148630962	712 1013
CG 5000.6	5000	1300	4210	1050	Rp1 1/2	G3/4	7640148630979	712 1014
<b>10 bar (PS)</b>								
CG 300.10	300	500	1944	160	Rp1	G3/4	7640148631075	712 3000
CG 500.10	500	650	1987	220	Rp1	G3/4	7640148631082	712 3001
CG 700.10	700	750	2018	250	Rp1	G3/4	7640148631099	712 3002
CG 1000.10	1000	850	2192	340	Rp1 1/2	G3/4	7640148631105	712 3003
CG 1500.10	1500	1016	2378	460	Rp1 1/2	G3/4	7640148631112	712 3004
CG 2000.10	2000	1016	2872	760	Rp1 1/2	G3/4	7640148631129	712 3009
CG 3000.10	3000	1300	2972	920	Rp1 1/2	G3/4	7640148631136	712 3006
CG 4000.10	4000	1300	3617	1060	Rp1 1/2	G3/4	7640148631143	712 3007
CG 5000.10	5000	1300	4262	1180	Rp1 1/2	G3/4	7640148631150	712 3008



### Compresso CG...E

Secondary vessel.

Type*	VN [l]	D	H**	[kg]	S	SW	EAN	Article No
<b>6 bar (PS)</b>								
CG 300.6E	300	500	1944	140	Rp1	G3/4	7640148630986	712 2006
CG 500.6E	500	650	1987	190	Rp1	G3/4	7640148630993	712 2007
CG 700.6E	700	750	2018	210	Rp1	G3/4	7640148631006	712 2008
CG 1000.6E	1000	850	2192	290	Rp1 1/2	G3/4	7640148631013	712 2009
CG 1500.6E	1500	1016	2378	400	Rp1 1/2	G3/4	7640148631020	712 2010
CG 2000.6E	2000	1016	2872	680	Rp1 1/2	G3/4	7640148631037	712 2015
CG 3000.6E	3000	1300	2972	840	Rp1 1/2	G3/4	7640148631044	712 2012
CG 4000.6E	4000	1300	3617	950	Rp1 1/2	G3/4	7640148631051	712 2013
CG 5000.6E	5000	1300	4262	1050	Rp1 1/2	G3/4	7640148631068	712 2014
<b>10 bar (PS)</b>								
CG 300.10E	300	500	1944	160	Rp1	G3/4	7640148631167	712 4000
CG 500.10E	500	650	1987	220	Rp1	G3/4	7640148631174	712 4001
CG 700.10E	700	750	2018	250	Rp1	G3/4	7640148631181	712 4002
CG 1000.10E	1000	850	2192	340	Rp1 1/2	G3/4	7640148631198	712 4003
CG 1500.10E	1500	1016	2378	460	Rp1 1/2	G3/4	7640148631204	712 4004
CG 2000.10E	2000	1016	2872	760	Rp1 1/2	G3/4	7640148631211	712 4009
CG 3000.10E	3000	1300	2972	920	Rp1 1/2	G3/4	7640148631228	712 4006
CG 4000.10E	4000	1300	3617	1060	Rp1 1/2	G3/4	7640148631235	712 4007
CG 5000.10E	5000	1300	4262	1180	Rp1 1/2	G3/4	7640148631242	712 4008

VN = Nominal volume

\*) Applications > 10 bar and special vessels upon request.

\*\*) Tolerance 0 / -100.

## Accessories for control modules

### Communication module for BrainCube control

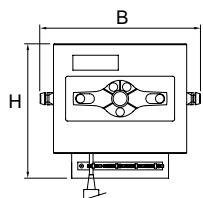
Max. admissible ambient temperature, TU: 40°C

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 inversed. Wall mounted, fixing elements for cable management.

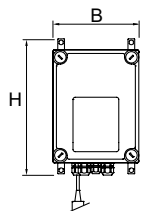


Type	B	H	T	[kg]	PA [kW]	EAN	Article No
DCD	270	230	260	0,5	0,1	7640148638715	814 1000

T = Depth of the device

### 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

### Software expansion

Usage options as Master / Slave, parallel, expanded capacity or 100% redundancy.

Remote switching of Master / Slave possible.

Cabling on site, commissioning by IMI Pneumatex Service.

Including assembly kit with shut-offs for the air-side connection of the TecBoxes with the primary vessel.

### Master-Slave DMS 2

parallel operation of 2 Compresso C 10, C 20.

Type	EAN	Article No
DMS 2 C	7640148638753	814 1020



