

# compresso CPV

World Premiere

The compressor controlled pressurisation station Compresso CPV with integral vacuum degassing and water make-up combines the most accurate pressurisation with the most effective degassing to provide maximum functionality.

## The Principle

Compresso Pressure maintenance + Pleno Water make-up + Vento Degassing = Compresso CPV.  
The TecBox ① with BrainCube combines all these functions.

### PIS Pressure maintenance C

Heating up: ←

- Water flows into the expansion vessel ②.
- If the system pressure rises above the set level  $PIS^+$  then the overflow valve opens.

Cooling down: →

- Water flows from the expansion vessel ② back into the system.
- If the pressure drops below the minimum level  $PIS^-$  the compressor starts.

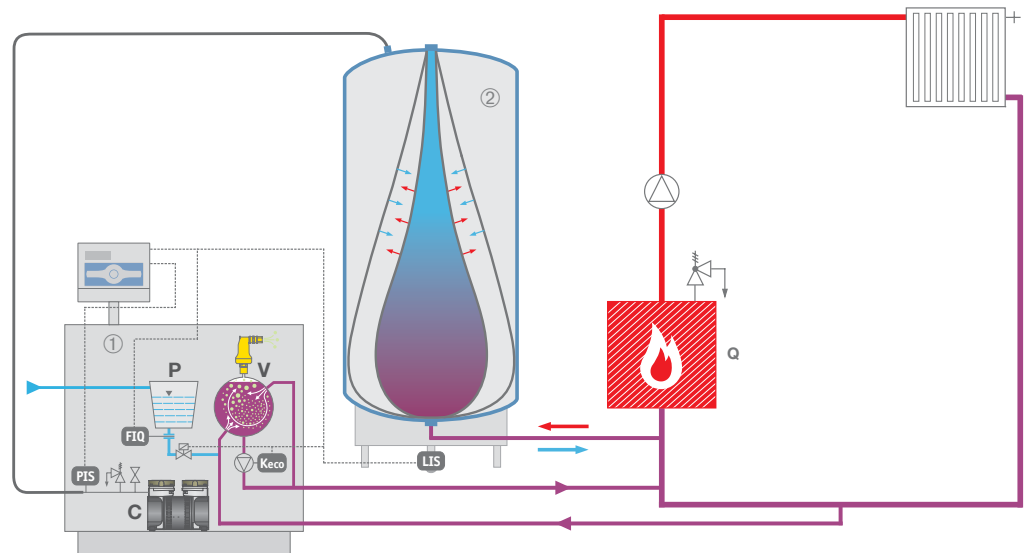
### LIS Water make-up P

If the level in the vessel drops below the minimum  $LIS^-$  the water make-up function is activated. The water make-up is continuously monitored for volume, time and frequency and is automatically stopped if  $FIQ^+$  is exceeded.

### Keco Degassing V

The system water can be degassed either continuously or in pre set intervals *Keco*.

BrainCube



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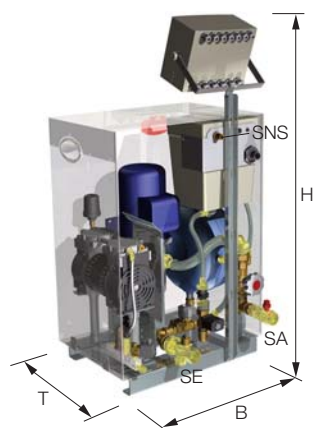


**Compresso CPV 10.1**



- Precision pressure maintenance  $\pm 0.1$  bar, with compressors, water make-up, degassing, heating, solar and cooling water systems, for systems according to EN 12828, EN 12976, ENV 12977, addition of antifreeze agent up to 50%;
- TecBox, variable installation next to the primary vessel, compact with all required functional elements, high-quality, alu-zinc coated sheet steel cover with carrying handles, hose connections on back side of panel are easy to assemble, shut-offs towards the system, including assembly kit for the air-side connection of the TecBox with the primary vessel;
- silentrun operation, particularly silent, pressure-optimised start mode, 1 compressor, valve block with 1 overflow valve and safety valve;
- fillsafe water make-up, with contact water meter and network separation container AB according to EN 1717, SVGW tested, pressure-maintaining monitoring device in the sense of EN 12828-4.7.4, check of quantity, time and frequency;
- vacusplit spray-type degassing, of the system and water make-up water in a vacuum vessel, degassing programs for permanent operation and time-controlled eco interval operation;
- BrainCube control, for an intelligent, safe system operation, self-optimising with memory function, intuitive, operation-orientated menu layout, multilingual; illuminated graphic-enabled 8-line display for the representation of all relevant parameters, user-friendly encoder with scroll and select function, numeric and graphical display of the pressure and the level, electrical connection with special coupling for network separation, RS 485 data interface and 2 volt free, individually programmable message outputs; optimum operation by means of inclination adjustment of the control;
- CE-tested, acc. to the requirements of the European Directives PED/DEP 97/23/EC, 89/336/EEC, 73/23/EEC;
- Swiss made by Pneumatex.

• **Compresso CPV 10.1 C:** Cooling version, with condensation water restraint.



Capacity up to 15 m stat. height	Q	1900 kW	Electric voltage	U	230 V/50 Hz
Max. capacity	Q	3000 kW	Electric connection capacity	PA	1,9 kW
Max. admissible pressure	PS	5 bar	Degree of protection	IP	22
Max. admissible temperature	TS	70 °C	Sound level	SPL	59 dB(A)
Min. admissible temperature	TS <sub>min</sub>	5 °C	Working pressure range	DPp	1,5-4,5 bar
Max. admissible ambient temp.	TU	40 °C	Water make-up capacity	VNS	300 l/h
Width	B	500 mm	Max. water capacity	VA	200 m³
Height	H	1000 mm	Connection in	SE	Rp 1
Depth	T	490 mm	Connection out	SA	Rp 1
Weight	G	47 kg	Connection water make-up	SNS	Rp 1/2

The Compresso CPV is available from July 2007.

**Advantages of Pneumatex**

*Elastic pressurisation with ultimate degassing*

Compresso CPV saves on installation costs, requires less space is easier to use and costs less to buy. The complete package includes: Compresso pressurisation with *silentrun*, Pleno water make-up with *fillsafe* and Vento degassing with *vacusplit*:

- **Pressure maintenance: *silentrun* – the silent Compresso**  
The compressor is only 59 dB(A). The soft but precise pressurisation  $\pm 0.1$  bar, guarantees an efficient and reliable system.
- **Water make-up: *fillsafe* – protection for the system**  
The monitoring function **FIQ<sup>+</sup>** which stops the water make-up in case of leakages ensures a safe operation of the whole system.
- **Degassing: *vacusplit* – the ultimate vacuum spray degassing**  
The system water becomes almost 100% gas free. Over 80% of the oxygen is removed from the make-up water before it enters the system. This means «hard» fully degassed systems without bubbles or air problems, no corrosion or erosion.
- **Expansion vessel @ : *airproof* – the guarantee against diffusion**  
It is vital that the air side of the vessel is totally sealed off from the water side. The airproof butyl bag is the ultimate protection against oxygen diffusion.

*silentrun*

*vacusplit*

*fillsafe*

*airproof*