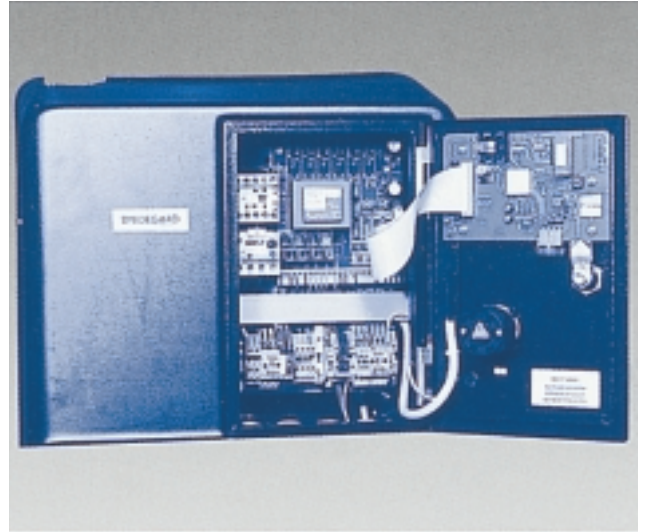


# PRESSURISATION SETS CCV



- Heating and chilled water applications
- Working pressure kept to a minimum
- Full range of vessels 350 to 5000 litres
- Minimum floor space required on large systems
- Microprocessor control
- Supplied with automatic make-up unit
- Suitable for use with Building Management Systems

# PRESSURISATION SETS CCV

The Smedegaard CCV pressurisation unit is designed to absorb the expanded water in a heating or chilled water system, whilst maintaining a constant pressure.

The set comprises - vessel with replaceable diaphragm, compressor, microprocessor, solenoid valve, pressure sensor and fill set.

In contrast to pressurisation units fitted with conventional expansion vessels, the CCV set releases air from the vessel via the solenoid valve, as the system temperature increases, to keep the pressure in the system constant. As the system cools down, the compressor cuts in and replaces the air in the vessel. Additional features include a continuous digital read out of the system pressure and water level, with volt free contacts for connection to a BMS system.

Vessel sizes vary between 350 and 5000 litres, with additional vessels available for mounting in parallel to the main tank. The table below can be used to quickly size a CCV pressurisation unit.

The chart has been calculated for the three most common temperatures encountered in systems requiring this type of equipment.

**\*Please remember that units marked thus comprise two tanks.**

**Static head to be considered in the standard manner.**

For system flow temperatures < 95°C:-

$$\text{Cold fill pressure} = \frac{\text{Height of system in metres} + 0.3^{**}}{10} \text{ bar}$$

**\*\*This facilitates venting at the top of the system.**

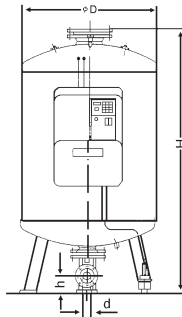
Minimum cold fill pressure is 0.5 bar.

**Intermediate vessels are required for high temperature systems over 95°C. Please consult Smedegaard.**

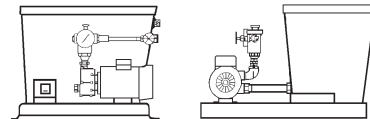
## Oil Pressure Load Cell



## Dimensions of Vessel



## Dimensions of Automatic Fill Sets upon application



## Sizing Chart for CCV Pressurisation Units

System Volume – litres			Model
82°C	100°C	120°C	
10500	7000	5250	CCV/A
14500	10000	7250	CCV/B
23000	16000	11500	CCV/C
31000	22000	15500	CCV/D
46000	32000	23000	CCV/E
62500	43000	31250	CCV/F
96000	66000	48000	CCV/G
128000	88000	64000	CCV/H
160000	110000	80000	CCV/J
21000	14000	10500	CCV/AA*
78000	54000	39000	CCV/ED*
126000	87000	63000	CCV/FF*
160000	110000	80000	CCV/GF*
193000	133000	96500	CCV/GG*
256000	176000	128000	CCV/HH*
320000	220000	160000	CCV/JJ*

## Dimensions in mm

Vessel								
Model	D	d	H	h	Weight kg.	Compressor Elect. Data 400-3-50		
						Motor kW	FLC Amps	SC Amps
CCV/A	750	40 PN/6	1395	195	156	0.37	1.4	7.0
CCV/B	750		1660	195	185	0.37	1.4	7.0
CCV/C	750		2225	195	225	0.37	1.4	7.0
CCV/D	1000	50	1980	195	330	0.37	1.4	7.0
CCV/E	1200	PN/6	2070	250	465	0.55	1.7	8.5
CCV/F	1200	65 PN/16	2550	280	565	1.1	3.6	18.0
CCV/G	1500		2460	280	795	1.7	4.5	22.5
CCV/H	1500		3035	280	1080	1.7	4.5	22.5
CCV/J	1500		3610	280	1115	2.4	6.2	31.0

PR4/11/01

Whilst every care has been taken to ensure that data is correct, no responsibility can be accepted for inaccuracies or misprints.

It is SMEDEGAARD'S policy to continually improve and develop the product range. We reserve the right to change specifications without prior notice.

# SMEDEGAARD

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