



Section 22

Expansion Vessels, Air Separators & Air Vents

Flamco Expansion Vessels

Flexcon Vessels for Heating & Chilled water systems sizes 8-80 litres



MATERIALS	
PART	MATERIAL
Vessel	Steel Epoxy Powder Coated
Diaphragm	Butyl Rubber
Clench Ring	Steel Zinc Coated

SPECIFICATIONS	
Thread	BSP
MAX Working Pressure	3 Bar
MAX Temp at Heating Outlet	120°C
MAX Temp at Diaphragm	70°C



Flexcon Type C					
CODE	SIZE LITRES	DIA	HEIGHT	APPROX KG	MOUNTING
FLEV8/16077	8	245	304	2.2	Wall mount-use MB2 Clip or Flexconsole
FLEV12/16127	12	286	336	2.7	Wall mount-use MB2 Clip or Flexconsole
FLEV18/16177	18	328	328	3.7	Wall mount-use MB2 Clip or Flexconsole
FLEV25/16247	25	358	380	4.5	Wall mount-use MB2 Clip or Flexconsole
FLEV35/16347	35	396	439	5.4	Foot mount
FLEV50/16493	50	435	495	11.2	Foot mount
FLEV80/16817	80	519	551	15	Foot mount



Flexcon Type P – Side Mount					
CODE	SIZE LITRES	DIA	HEIGHT	APPROX KG	MOUNTING
FLEVP18/13316	18	387	226	5.7	Side mount
FLEVP25/13326	25	435	256	7.7	Side mount
FLEVP35/13336	35	435	333	8.9	Side mount
FLEVP50/13357	50	515	344	11.8	Side mount

Flamco Expansion Vessels

Flexcon Vessels for Heating & Chilled water systems sizes 110-1000 litres



MATERIALS	
PART	MATERIAL
Vessel	Steel Epoxy Powder Coated
Diaphragm	Butyl Rubber

SPECIFICATIONS	
Thread	BSP
MAX Working Pressure	6 Bar
MAX Temp at Heating Outlet	120°C
MAX Temp at Diaphragm	70°C

Flexcon				
CODE	SIZE LITRES	DIA	HEIGHT	APPROX KG
FLEV110/16110	110	484	784	23.8
FLEV140/16141	140	484	950	25.3
FLEV200/16208	200	484	1300	38.1
FLEV300/16304	300	600	1330	56.9
FLEV425/16424	425	790	1180	76.4
FLEV600/16604	600	790	1540	92.9
FLEV800/16804	800	790	1888	126.9
FLEV1000/16904	1000	790	2268	145.9

Flamco “Automat” for Large Systems Giving Precise Control – Compressor Driven

Automatic Expansion Control

System comprises:

Vessel, Compressor Unit & Controller

Expansion Capacity from 400 to 3,500 Litres



Flamco “Flamcomat” Multi Function System – Pump Driven

Automatic Expansion Control, Pressurisation, De-aeration & Makeup

System comprises:

Vessel, Pump Unit & Controller

Expansion Capacity from 150 to 10,000 Litres



Flexcon Tank Mounting Options

MB2 wall Mounting Clip

CODE	VESSELS
FLWM27913	2-25 litres



Flexconsole

CODE	VESSELS
FLWM27910	8-25 litres



Flexconsole Plus

CODE	VESSELS
FLWM27996	8-25 litres

Complete with: Pressure gauge, Auto Air Vent, Safety valve, Self Isolating Union



Flamco Flexvent Automatic Air Vent



MATERIALS	
PART	MATERIAL
Body	Brass
Float	Plastic
Shut off valve	Brass/Butyl Rubber

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar

Flamco Flexvent				
CODE	SIZE	DIA	HEIGHT	APPROX KG
FLAV/010	10	30	82	0.11
FLAV/015	15	30	82	0.122

Flamco Prescor Safety Valves

Pre-set Pressure, Membrane Seal, Quick Release, Non-Adjustable



MATERIALS	
PART	MATERIAL
Body	Brass
Diaphragm	Reinforced Hi Temp Rubber

SPECIFICATIONS	
Thread	BSP
MAX Temperature	140°C

Prescor Safety Relief valves					
CODE	SIZE INLET/ OUTLET	HEIGHT	SET PRESSURE BAR	HEATING CAPACITY KW	APPROX KG
FLSV27665	15/15	69	3	125	0.15
FLSV27025	20/20	71	3	165	0.26
FLSV27045	25/32	101	3	395	0.68
FLSV27056	32/40	109	3	580	1.01
FLSV27049	25/32	101	5	580	0.68
FLSV27039	32/40	109	5	845	1.01

Flamco Funnel/Tundish

Used on the outlet of all Safety Relief Valves as an Air Break & Visual Inspection



Prescor Safety Relief valves				
CODE	INLET	OUTLET	HEIGHT	APPROX KG
FLF/015	15	15	80	0.18
FLF/020	20	25	94	0.29
FLF/025	25	32	185	1.11
FLF/032	32	40	195	1.22

Automatic Fill Set

Comprising: Pressure Reducing Valve, Check Valve, 2 Ball Valves & Flex Hose

MATERIALS		SPECIFICATIONS	
PART	MATERIAL	Thread	BSP
Pressure Reducing valve	Brass	MAX Inlet Pressure	15 Bar
Check Valve	Brass	Outlet Pressure Adjustable	1 to 4 bar
Ball valves	Brass	MAX Working Temperature	80°C
Flex Hose	Rubber inner SS outer		



Automatic Fill set				
CODE	SIZE	LENGTH	HEIGHT	APPROX KG
FLAF/015	15	640	110	1.25

Flamco Pressure / Temperature Gauge

Complete with Immersion Fitting & Shut Off valve

Automatic Fill set		
CODE	PRESSURE RANGE	TEMPERATURE RANGE
FLPGTG/015	0-4 Bar	20-120°C



Flamco Pressure Gauges

Automatic Fill set			
CODE	PRESSURE RANGE	MOUNTING	FACE
FLPG	0-4 Bar	8mm Bottom Entry	63mm
FLPG10	0-10 Bar	8mm Bottom Entry	63mm



Flamco Flexfast Isolating Union

Enables disconnecting the vessel without draining the system or releasing the pressure

Flamco Flexfast Isolating Union		
CODE		
FLEX27920	Suitable for vessels up to 25 litres	Has 20mm internal & 20mm external thread



Flamcovent Micro-Bubble Air Separators

For total evacuation of air from heating & cooling systems using Pall Rings & Coalescence Principle



MATERIALS	
PART	MATERIAL
Body	Brass
Pall Rings	SS

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar

Flamcovent Air Separator				
CODE	SIZE	FACE TO FACE	HEIGHT	APPROX KG
FLAS/020	20	88	121	1.4
FLAS/025	25	100	137	1.8
FLAS/032	32	114	152	2.4
FLAS/040	40	114	152	2.5

Flamcovent F Air Separator Flanged				
CODE	SIZE	FACE TO FACE	HEIGHT	APPROX KG
FLAS/050	50	350	470	13.1
FLAS/065	65	350	470	14.1
FLAS/080	80	470	621	22.4
FLAS/100	100	470	621	24.8
FLAS/125	125	635	790	45.6
FLAS/150	150	635	790	50
FLAS/200	200	670	970	79.5

Flamco Flexair Air Separators

For evacuation of air from heating & cooling installations using Centrifuge Principle
Suitable for systems with high flow rates – up to 5 m/s, & for Glycol solutions up to 50%



MATERIALS	
PART	MATERIAL
Body	Steel Epoxy Powder Coated
Flexvent	Brass

SPECIFICATIONS	
Ends Flanged	PN10
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar

Flexair Air Separator				
CODE	SIZE	FACE TO FACE	HEIGHT	APPROX KG
FLEXAIR27538	65	490	475	17
FLEXAIR27534	80	490	475	19
FLEXAIR27535	100	675	695	55
FLEXAIR27537	150	675	775	75

Flamcovent Clean Air & Dirt Separators

Specially designed to remove solid particles as well as air from heating systems

MATERIALS	
PART	MATERIAL
Body	Steel Epoxy Coated
Flexvent	Brass

SPECIFICATIONS	
Ends	Flanged PN10
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar



Flamcovent Clean F				
CODE	SIZE	FACE TO FACE	HEIGHT	APPROX KG
FLASC/050	50	350	560	15
FLASC/065	65	350	560	16
FLASC/080	80	470	756	26
FLASC/100	100	470	756	29
FLASC/125	125	635	970	52
FLASC/150	150	635	970	56
FLASC/200	200	774	1193	89

Flexfiller Digital Pressurisation Units

Compact totally enclosed units with user friendly microprocessor for use with Flexcon Expansion Vessels. Provides a minimum system pressure requirement.

- The processor allows for low & high pressure monitoring & system diagnostics.
- Single or Dual Pump (standby) options.
- Compact wall or floor mount styles.
- Integral water break tank.
- Low water pump protection.
- Alarms for high & low water pressure.
- Output pressures up to 8 bar.
- Top up flow rates from 0.4 L/min to 30 L/min.
- Optional RS485 connectivity for use with BMS.



Flamco products are available in solar options for high temperature service.



Flamco Dosing Pot

For chemical dosing of heating & cooling systems with manual air bleed valve.



MATERIALS	
PART	MATERIAL
Body	Mild Steel
Valve	Brass

SPECIFICATIONS	
MAX Working Temperature	90°C
MAX Working Pressure	16 Bar

Flamco Dosing Pot					
CODE	BODY	HEIGHT	BRACKET WIDTH	CONNECTIONS	APPROX KG
FLDPOT6	220	600	380	20mm BSP	16
FLDPOT11	220	730	380	20mm BSP	20
FLDPOT18	220	890	380	20mm BSP	23
FLDPOT25	220	1140	380	20mm BSP	29