sepcoll

hydraulic separator manifold



altecnic



Introduction

The Altecnic Sepcoll combines a hydraulic separator and distribution manifold into one unit and is used in heating or air conditioning systems to allow control to individual rooms, when there is only one boiler or chiller.

Various configurations are available, which can be easily fitted into any kind of heating or chilled water circuit.

The compact design requires a minimum of space.

The Sepcoll unit is supplied complete with preformed shell insulation to ensure perfect thermal insulation when used on both heating and chilled water systems.

Materials

Component		Material
Body: Insulation:		Steel - painted closed cell expanded PEX
Thickness:		20 mm
Density:	internal section	30 kg/m³
	external section	50 kg/m³
Thermal c	onductivity (DIN 52612): -at 0°C	0.038 W/(m-K)
	-at 40°C	0.045 W/(m-K)
Co-efficie (DIN 5261	nt of resistance to the diffusion of v. [5]:	apour >1.300
Temperati	ure range:	0 to 100°C
Resistance	e to fire (DIN 4102)	Class B2

Product Code Description

559121	2 + 1 in manifold cabinet
559022	2 + 2 external connections with
FF0004	2 4 4 1 21

2 + 1 separator manifold

h fixing brackets 3 + 1 external connections with fixing brackets All separator manifolds are supplied with preformed insulation

Technical Specification

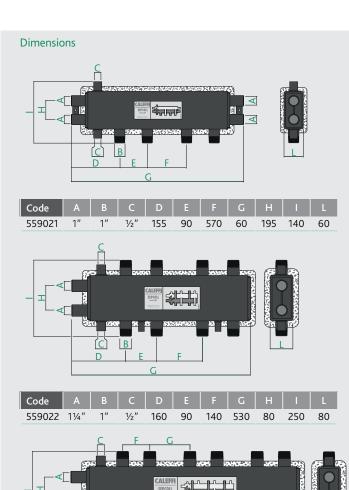
559021

Max. working pressure:	6 bar
Temperature range:	0 to 110°C

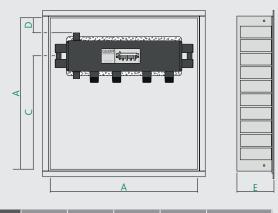
Product Code	Volume	Weight
559021	4.1	7.7
559121	4.1	
559022	6.9	13.2
559031	9.8	17.5

Maximum Recommended Flowrates

Branches	Primary	Secondary - Total
2+1	2 m³/h	5 m ³ /h
2 + 2	2.5 m ³ /h	6 m ³ /h
3+1	2.5 m ³ /h	6 m ³ /h







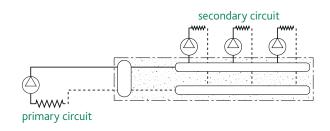
Code	Α	В	С	D	E
559121	800	770	595	85	150 to 190

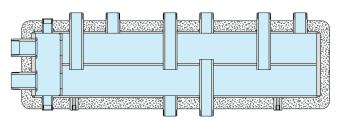
Operating Principle

When a system contains a primary circuit with its own pump and a number of secondary circuits with their own distribution pumps operating conditions may arise where the pumps interact, creating abnormal variations in flowrates and pressures within the system.

In the Sepcoll there is a low pressure zone, which enables the primary and secondary circuits to be hydraulic independent of each other.

The flow in one circuit does not create flow in the circuit(s) if the pressure loss in the common section is negligible.

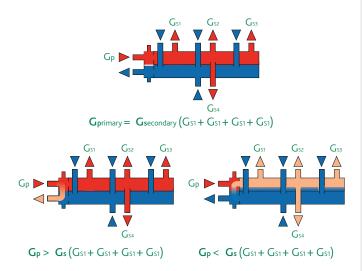




The flow passing round the respective circuits depends exclusively on the flow characteristics of the pumps, preventing reciprocal influence due to connection in series.

Downstream of the common low pressure zone are the flow and return manifolds to which the secondary distribution circuits can be connected

Three possible hydraulic situations are shown below as examples.



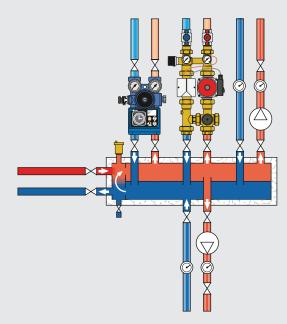
Installation

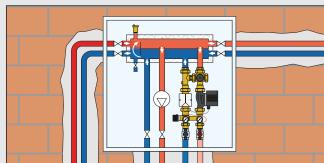
Sepcoll units should be installed as shown.

It is important the correct connections of the flow and return pipework to the unit and to the individual circuits are made.

The sepcoll unit can be installed upside down provided the correct connections are made.

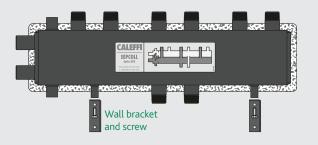
The $\frac{1}{2}$ " female connections must only be used for connecting an automatic air vent and drain cock as shown.



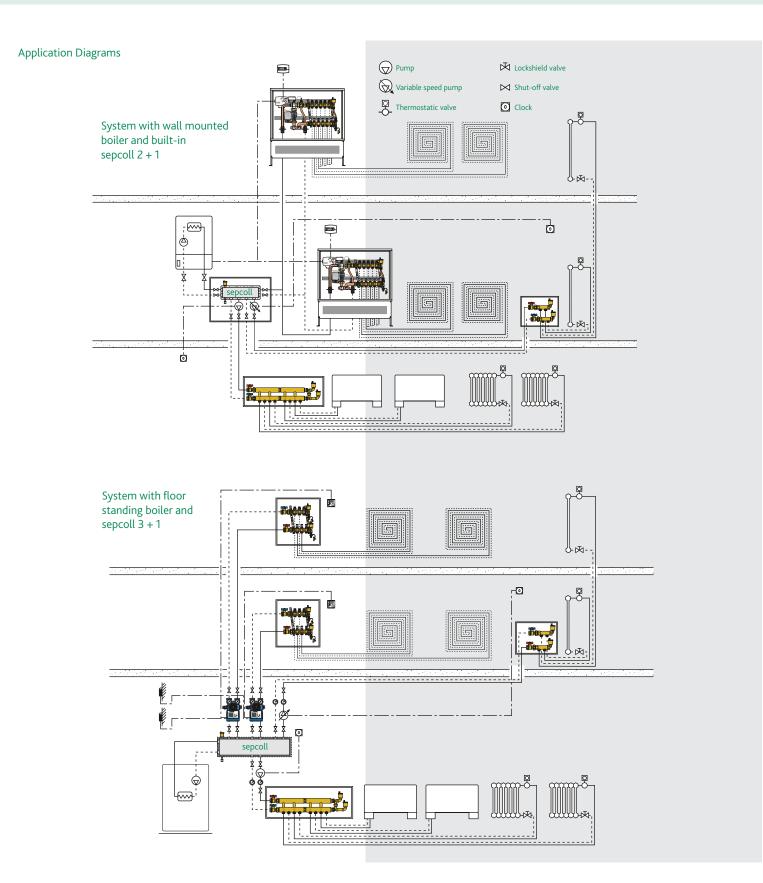


Installation

The external versions of the sepcoll 2+2 and 3+1 are supplied complete with wall mounting brackets which allows adjustment of the position from the wall.



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E & O.E

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