SpiroZone

Next Generation Zoning and Link-up Manifold

systemlink

ZONED HEATING AND CONTROLS

The Evolution of Zoned Heating

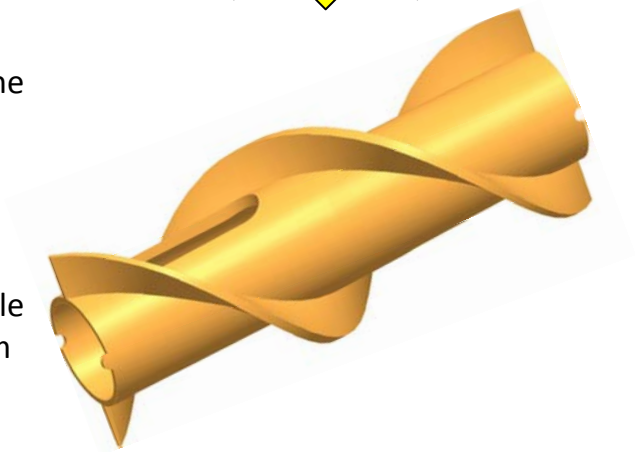
Example of System

Heat Source: *Boiler*
Zone 1: *Radiators*
Zone 2: *DHW*
Zone 3: *Underfloor*

Benefits of SpiroZone

- Unique double helix interior results in compact design and low resistance to flow
- Controlled system by-pass – Internal valves separate hot supply and cooler return flows, thereby minimising internal leakage of heat and increasing efficiency over present designs
- Can be ordered in a range of sizes based on the number of zones and heat sources required
- Fully insulated
- Simple to install
- Can be mounted in any orientation for versatile installation with connections on top and bottom
- No need for motorised valves
- Compatible with oil, gas, solid fuel, heat pumps & solar

Available NOW!



General Information

SpiroZone is a patented distribution manifold that collects water from one or more sources and distributes it to one or more zones. Pumps are used to circulate the water, each heat source and heat zone operate independently of each other. When the pump in a particular zone or boiler circuit is inactive, no water moves in that circuit. Precisely controllable flows in multiple zones are maintained, with no crosstalk.

System design and implementation is greatly simplified. Each zone or boiler circuit can be planned as an individual module without the need to consider its effect on the rest of the system thus minimizing pumping power consumption. Internal pressure activated valves maximise thermal separation of hot supply and cooler return flows, minimising internal leakage of heat.

SpiroZone is an inexpensive and simple alternative to valve controlled zoning methods.

- Manifold is fully insulated to limit any unwanted heat loss.
- The unit is compact and weighs only 2.4kg.
- It can be orientated in **ANY** direction for installation.
- Built-in controlled system by-pass: Normally a by-pass must be built into a heating system for the boiler. This is already designed into the SpiroZone.
- Internal pressure activated valves maximise thermal separation of hot supply and cooler return flows, thereby minimising internal leakage of heat and increasing efficiency over present designs
- Due to the internal pressure activated valves on the by-pass circuit, Non-Return Valve's **are** required for **all** Heat Sources and Heat Zones.
- SpiroZone eliminates time consuming individual circuit balancing.
- SpiroZone automatically creates a neutral point within the unit. Balancing a conventional system can be difficult as pressure drop varies depending on what zones are open or closed at any particular moment.
- Manages heat distribution for all heat sources including oil, gas, solid fuel and geothermal.

Product code explanation

SPR	3,4,5,6,7	28
SpiroZone	No. of Zones	Pipe diameter

Dimensions including Insulation	**SpiroZone** 3	**SpiroZone** 4/5	**SpiroZone** 6/7
Overall Length	233mm	373mm	513mm
Diameter	76.5mm	76.5mm	76.5mm
Dimensions of Manifold without Insulation	**SpiroZone** 3	**SpiroZone** 4/5	**SpiroZone** 6/7
Length	233mm	373mm	513mm
Diameter	60.5mm	60.5mm	60.5mm
Weights	1.7kg	2.4kg	3.1kg
Distance between Flow/Return Connections on Manifold:	70mm		
Source/Zone Connection Size and Type:	1" & 3/4" BSP Female Parallel Thread		
Maximum Working Pressure:	4bar		
Maximum Heat Capacity per Connection:	Ends: 46kW Top/Bottom: 35kW		
*Maximum Overall Heat Capacity:	46kW		
Insulation Type:	Flexible Elastomeric Foam Nominal Thickness 9mm Thermal Conductivity 0.041 W/mK @ 70°C		

*Overall Heat Load Capacity based on maximum total flow rate into manifold of $2m^3/h$ and ΔT 20K
Note: Specifications may change without notice due to product development. Please refer to latest product data sheet

Systemlink Ltd., Unit C2 South City Business Centre, Tallaght, Dublin 24, Ireland
Phone 01 4031200 Fax 01 4137777
Email: info@systemlink.ie Web: *www.systemlink.ie*