

SPIROCROSS

INNOVATION THAT STICKS

Spirotech introduces the SpiroCross AX-J. The next generation low loss header combined with deaeration and magnetic dirt separation.

SPIROCROSS®



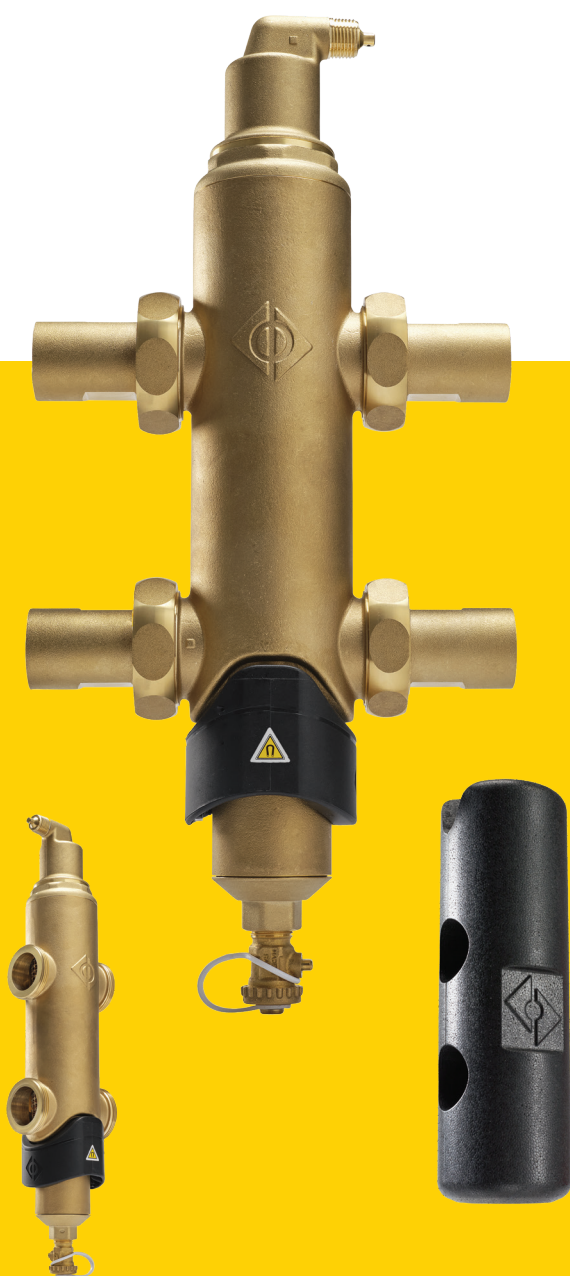
INTRODUCING SPIROCROSS® AX-J WITH MAGNET

Today's highly energy-efficient heating and cooling systems with a primary and secondary circuit or with separate groups and pumps, such as with underfloor heating or heat pumps, require optimum hydraulic balancing and offer the best performance with air and dirt-free system water.

Hydraulic balancing and air and (magnetic) dirt separation is combined in the Spirotech SpiroCross AX-J. The hydraulic separator compensates for differences in flowrate between a primary circuit and a secondary circuit. Combining three functions in one device not only saves on purchasing costs, but also on space, performance, installation, and total system maintenance costs.

The SpiroCross AX-J range consists of a robust brass body with a Spirotube inside that provides active deaeration for the removal of circulating bubbles and microbubbles from the system water. Next to that the Spirotube also highly effectively removes dirt in a very compact design and guarantees a perfect system water balance with minimal fluid mixing. Although the Spirotube can trap the smallest microbubbles and dirt particles, it has an open structure which prevents the SpiroCross AX-J from clogging up. Flow and pressure drop are not affected by the accumulated dirt, as it is stored outside the main flow.

The SpiroCross AX-J is improved with a highly efficient magnetic jacket. Not only the non-magnetic dirt is removed, but also the very smallest magnetic particles to improve the separation efficiency. The collected dirt and magnetic particles are easily removed via the drain valve, without the need to isolate or dismantle the unit for cleaning.



THIS IS WHY YOUR SYSTEM NEEDS SPIROGROSS

BENEFITS

- Optimal hydraulic balance between primary and secondary heating circuits.
- Powerful magnet guarantees optimum dirt separation.
- Collected dirt can be quickly and easily removed while the system remains fully operational.
- Large collection chamber ensures that frequent flushing is not necessary.
- Air vent continuously removes circulating air and micro-bubbles.
- Provides optimum heat transfer with constant low pressure drops.
- Robust compact brass housing with a limited built-in height.
- Quick and easy installation.



FEATURES

- Three functions in one single component: hydraulic balancing and air & (magnetic) dirt separation.
- Maximising system performance: better and more precise regulation of the heating system.
- Insulation set available (TAX150).

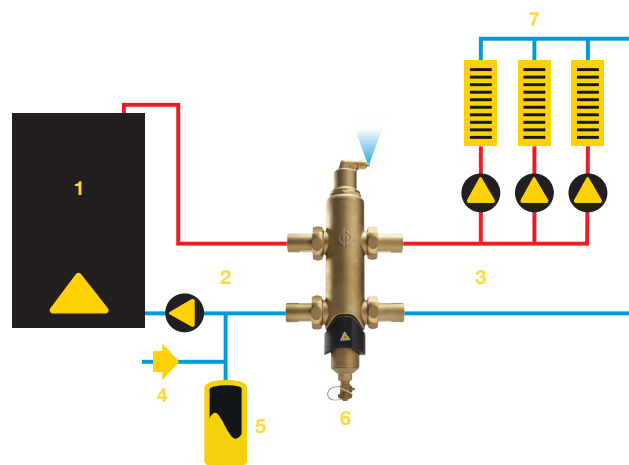


Figure 1 | Positioning

1 Boiler 2 Primary Loop 3 Secondary Loop 4 Water Supply
5 Expansion Tank 6 SpiroCross AX-J 7 System Radiation

APPLICATION

The SpiroCross AX-J range has been developed for large residential and small commercial applications and can also be used for low temperature heat pump systems. Examples include apartment buildings, shared house systems, villas, and small commercial buildings. Applications include the connection of combined heaters (supply) with different consumption circuits (radiator & underfloor heating) that are both designed as an active circuit in a system with multiple and separate circulating pumps.

PRODUCT SPECIFICATIONS

CLASSIFICATION SPIROCROSS AX-J			
Article number SpiroCross AX-J	AX100J	AX125J	AX150J
Article number insulation set	TAX150	TAX150	TAX150
TECHNICAL SPECIFICATIONS			
Inlet/outlet connection thread	Rp1" (internal)	Rp1¼" (internal)	Rp1½" (internal)
Design pressure PS [bar-g]	0 - 10	0 - 10	0 - 10
Design temperature TS [°C]	0 - 110	0 - 110	0 - 110
Max. and nom. flow velocity [m/s]	1.0	1.0	1.0
Max. and nom. flow rate [m³/h]	2.0	3.6	5.0
Max. and. nom flow rate [l/s]	0.56	1.00	1.39
Capacity (ΔT = 6°K) [kW]	14.0	25.2	35.0
Capacity (ΔT = 20°K) [kW]	46.7	84.0	116.7
Volume [l]	1.3	1.3	1.3
Air outlet connection (male)	R½"	R½"	R½"
Net weight [kg]	6.5	6.9	6.7
DIMENSIONS			
d	Rp1"	Rp1¼"	Rp1½"
b [mm]	53	53	53
D [mm]	84	84	84
e	Rp¾"	Rp¾"	Rp¾"
e2	R½"	R½"	R½"
H [mm]	462	462	462
h [mm]	135	135	135
h1 [mm]	144	144	144
h2 [mm]	183	183	183
L [mm]	236	236	236
x [mm]	>100	>100	>100
y [mm]	>50	>50	>50

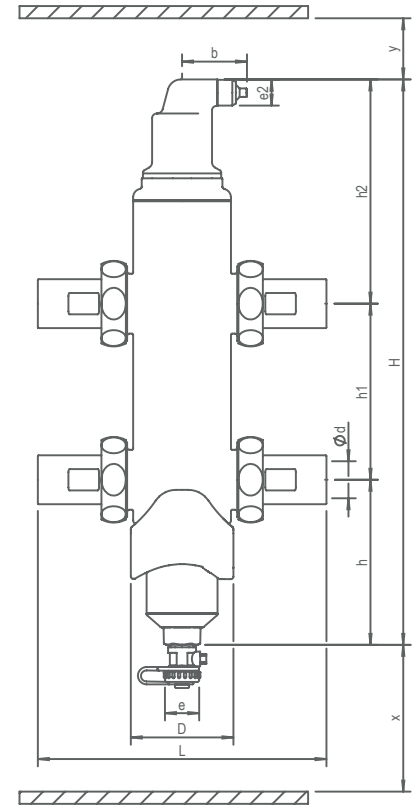


Figure 2 | Technical drawing

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