



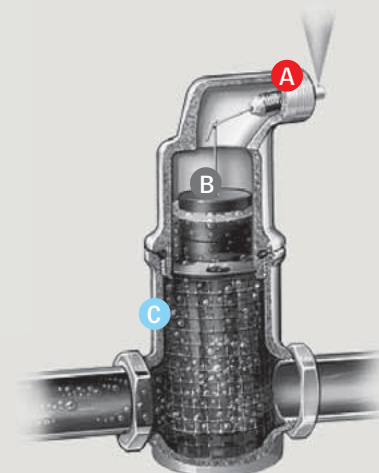
Features and functionality

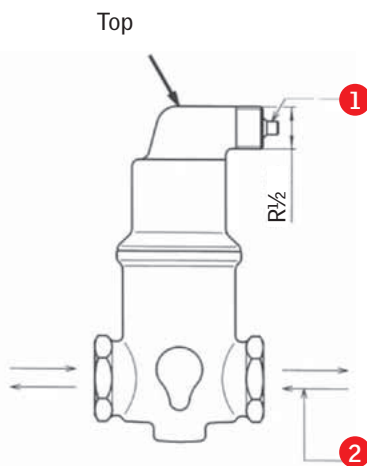
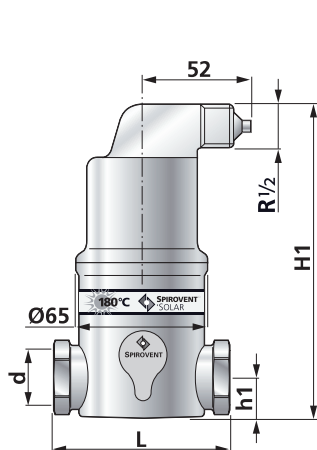
All VELUX solar collector systems include a micro bubble air separator which helps to remove the microscopic air particles in the solar collector fluid.

The micro bubble air separator, which is installed close to the pump station, improves the effect of the solar collector and is a superior alternative to roof mounted vents. The micro bubble air separator extends the lifetime of the system and requires no service. It also improves the housing comfort by reducing noise from the solar collector system. A customized insulation covering is included to protect against burning.

Benefits on installation and operation

- A** A high quality air separator ensures a watertight air separation and is protected against clotting.
- B** A specially constructed air chamber protects the valve against dirt. Sufficient volume protects against pressure fluctuations.
- C** An inner wire design attracts the micro bubbles in the fluid and let them rise inside the chamber for air venting.





Construction materials

Body	Brass
Deaeration	Brass
Valve sealing	Viton
Float	TPX

Spirotube

Tube	Copper
Wire	Copper
Solder	Tin (SnCu3)

Technical specifications

Typ (d)	H1	h1	L	Flow m ³ /h	Volume ltr.	Weight kg
3/4"	153	20	85	1.25	0.18	1.0

Design criteria

Medium	Water / glycol (max 40 %)
Max. velocity	1 m/s
Max. flow rate	1,25 m ³ /h
Max. pressure	10 bar-g
Max. temperature	180°C
Design standard	Factory standard

Mounting and operating instruction for the SPIROVENT 'AIR SOLAR

Applies to product types starting with AA and ending with /008.

Manufacturer

Spirotech b.v. Helmond
The Netherlands

This Spirotech product is designed and manufactured according to the Sound Engineering Practice as stated in the Pressure Equipment Directive (97/23/EC art. 3.3) adopted by the European Parliament and the European Council in May 1997.

Application

Fully automatic removal of air and gas from heating water, cooling water, water/glycol mixtures and process water. Not suitable for demineralised water, drinking water, potable water and dangerous or inflammable substances. Do not use in combination with chemical additives.

When in doubt, contact your supplier.

Pressure and temperature range

From 0 to 10 bar; from 0 to 180 °C, unless explicitly indicated otherwise on the product.

Installation and maintenance may only be carried out by a competent installer.

When working on the Spirovent 'Air Solar, always make the installation pressureless and let it cool down.

Installing the Spirovent 'Air Solar

The Spirovent 'Air Solar should be mounted at the hottest point of the installation and as far away from the collector as possible, for example in the collector circuit on the inlet of the storage vessel.

TAKE CARE: When the Spirovent 'Air Solar is mounted near the collector, fluid (steam) can escape during stand still of the system.

- The operation is independent of the flow direction. **2**
- Make sure that the vent valve **1** is always left clear.
- If the installation is tested with compressed air, the Spirovent 'Air Solar should be shut off temporarily with plug R $\frac{1}{2}$ (not supplied). **1**
- Take care: plug R $\frac{1}{2}$ must be removed before commissioning the installation.
- Maximum allowable testing pressure: 15 bar.

General recommendations/obligations

Take care: touching the product "in operation" may cause burns.

Guarantee

A guarantee for this product is given for three years after the date of purchase. Incompetent use, incorrect installation and attempts to carry out repairs oneself make any claim on the guarantee invalid. DAMAGE RESULTING FROM FAILURES is not included in the guarantee.

