



STOURFLEX®

J & P Supplies Ltd

Expansion Joints & Pipeline Equipment

Installation, Operation and Maintenance Instructions for Air and Dirt Separators.

Selection.

Stourflex offer a complete range of air and dirt separators. Check that the correct separator has been selected for the operating conditions that exist.

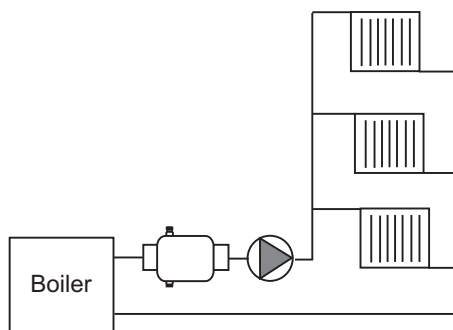
To enable efficient air and dirt removal the separator should be line size.

Location.

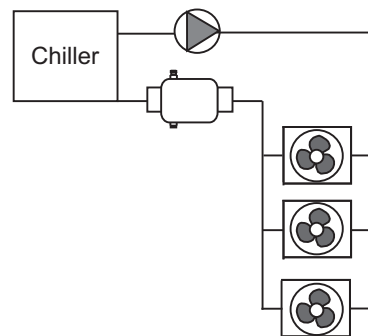
Micro Bubbles are easily released from circulating water where the highest temperature and lowest pressure conditions occur in the system, for this reason the separators should normally be fitted where water is at the highest temperature and the lowest pressure available.

The examples shown below are typical installation layouts, but other acceptable and efficient locations for the separator exist.

When selecting the position for the separator please be aware that pressure also has a major effect on the release of micro bubbles. For temperatures normally found within heating systems a one meter drop in head pressure is equivalent to a rise in temperature of four degrees centigrade. Where lower temperatures are involved in cooling applications system pressure becomes the determining factor of the position of the separator.



Heating System



Cooling System

Installation.

Stourflex Nonair Micro Bubble air and dirt separators should be installed in horizontal pipework. The direction of flow is optional on the **Type JP501** and **JP502**.

Automatic air vents should be fitted after first installing shut off valves.

A drain pipe can be fitted to the air vent if required.

To protect the automatic air vent the shut off valve should be closed prior to flushing the system.

Shut off valves should be fitted to the base of all Stourflex Nonair Air and Dirt Separators after first removing the drain plugs.

Flexible hose or fixed pipework should be installed to enable the dirt, sludge and solid particles to be drained to a convenient safe place.

When installing the Stourflex Nonair **Type JP504** Micro Bubble Air Separator with built in strainer, remove the plugs and fit pressure gauges.

Ensure sufficient space is provided beneath the sediment chamber to allow the built in strainer insert to be removed. Please refer to the **Type JP504** data sheet for clearance details.

Maintenance.

Always ensure that the shut off valves are closed before removing the automatic air vent for servicing.

Dirt, sludge and solid particles can be removed by opening the shut off valve on the base of all Stourflex Nonair Air and Dirt Separators.

Safe working practice must be observed when venting hot water at pressure.

By monitoring the pressure gauges fitted to the Stourflex Nonair **Type JP504** maintenance intervals can be planned for the removal and cleaning of the built in strainer.

To clean the built in strainer element first close the isolation valves on the system.

Open the shut off valve and drain the water from the separator.

Remove the bolts from the base plate of the sediment chamber and then detach the base plate.

The strainer element can then be drawn out of the strainer housing.