

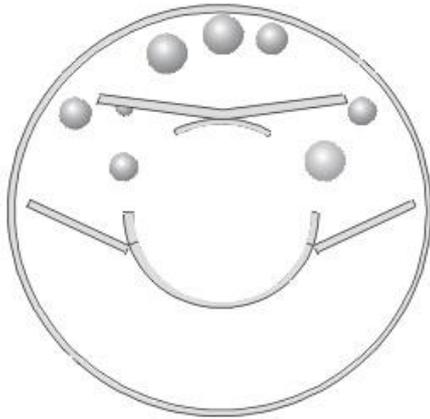


Nonair® Method of Separation

Air and dirt will be circulating around the system along with the water.
Micro bubbles will be formed when the water temperature rises and when the system pressure drops.

The unique design of the Nonair® separator together with the enlarged diameter the position and shape of the fins will reduce the velocity and remove the turbulence from water diverted from the main flow.

This provides the opportunity for air bubbles to be separated and rise into the top chamber and for solid particles heavier than water to fall and be collected in the bottom of the dirt chamber.



Some of the water passing into the separator is directed upwards. The velocity is reduced and the turbulence is decreased.

Large air bubbles rise directly to the top chamber where they will be vented automatically.

Part of the flow of water entering the separator is also directed down into the bottom chamber where micro bubbles will be removed.



As the water reaches the bottom chamber the velocity is reduced even further and a turbulence free area is created.

This enables micro bubbles to fuse together to form separate larger bubbles which gain buoyancy and float upwards undisturbed by the main flow of water into the top chamber and are vented automatically.

The treated water is replaced slowly with more water containing micro bubbles to continue the process.



The still turbulence free area created allows solid particles heavier than water to settle and be collected in the bottom of the adjoining dirt chamber and remain undisturbed until drained manually. Large air bubbles will be removed quickly. Micro bubbles and solid particles will be removed over a period of time.

A Stourflex Type JP504 Air and Dirt Separator with Built in Strainer should be selected when it is necessary to remove dirt and solid particles from the system quickly.