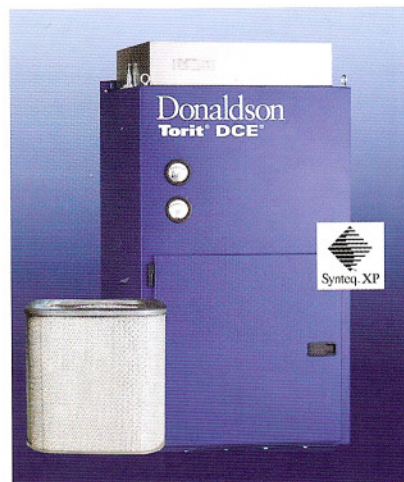


Filter innovation provides clean air at the point of use

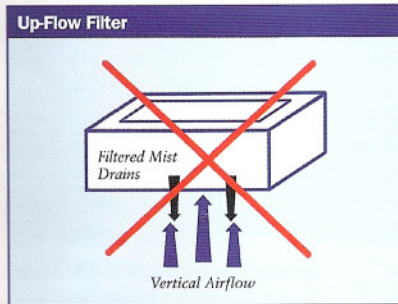
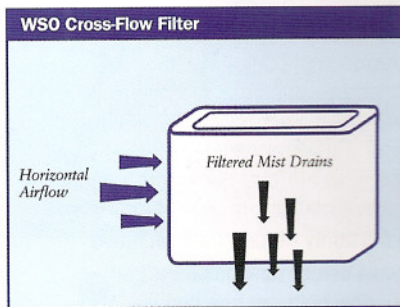
THE NEW WSO oil mist collectors by Donaldson are highly effective and especially economical. The separation rate for oil mist particles with a size range from 0,07 to 1,2 microns is around 99,97 %. This high degree of efficiency must not be 'bought' by an increase in operating costs, because the mist collector operates with the cross-flow principle: the filter inserts are open at the bottom and are passed horizontally, whilst the separated particles, which combine in the medium to form coalescent droplets, are drained downwards by gravity. This permits a reuse of the separated cooling lubricants and simultaneously creates the conditions for an extended filter life.

Not only the design of the housing and the filter are new, but also the filter media of the WSO range: the Synteq XP media is employed here. The filter fabric consists of a blend of long polyester fibres, which ensure mechanical stability and very fine glass fibres, which retain the oil aerosols in the depth of the media.

A thermal process is used to bond the fibres. In this way, a mechanically highly stable fabric free of bonding agents is produced, with a high dirt-holding capacity and a low differential pressure. This fulfils the demands for more economy in extraction systems with low energy consumption and longer filter life.



WSO cross-flow filter in comparison with an up-flow filter



A standard HEPA filter, which is installed after the Synteq XP filter, holds back more harmful substances, such as allergens. Due to the compact design, the new horizontal WSO series can easily be configured for floor and machine mounted.

For more information contact Donaldson South Africa on tel: +27 11 997 6000; email: marketing@emea.donaldson.com or go to www.donaldson.co.za.