V4

COALESCING FILTER FAMA V4

OIL MIST AND DUST

DESCRIPTION

The new **FAMA V4** coalescing filter is a cylindrical-shaped pre-filter with a truncated cone which, inserted along the suction system piping line, allows to condense 95% of the oil contained in the oily vapors, recovering it continuously and discharging it to the inside the machine tool.

It is composed of a flow diverter and a high density, low pressure drop (2.5 mmH_2O) metal mesh filter septum which coalesces the aspirated micro drops. The filtering efficiency is 60-90% with an average particle size of about 5 microns.

With this component, in its fourth technical evolution and now complete with continuous discharge even in the suction phase, many results are obtained: first of all, recovery processing oil directly into the machine tool, without depositing in the main channels; furthermore, the maintenance intervals in the filtering groups are extended due to the lower quantity of pollutants that passes through them.

With the insertion of the **FAMA V4** pre-filter, we can also increase the quantity of air sucked into the machine tool, improving the oily vapors extraction efficiency of, without worrying about the drag effect, thus improving the air in the work environment.

This component also impacts on the average consumption of carbon monoxide (Co_2), the reduction of which is now an obligatory way to all activities. This is because a lower consumption of oil and a lower consumption of spare parts, implies not only a lower quantity of secondary material used, but also a lower quantity of transport and packaging, which are certainly not secondary items in the evaluation of consumption of CO_2 according to the Carbon Footprint Certification.

Finally, the economic advantage deriving from lower energy consumption is certainly not of secondary importance. This is due to a lower clogging of the filtering group, therefore a lower effort of the fan and therefore a lower general energy consumption of the entire suction system.

HIGH EFFICIENCY

COST RECOVERY

REDUCED CONSUMPTION

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Complete with Jacob collars that offer better sealing and are easier to disassemble for inspection.

Available diameters from ø80 to ø200, otherwise on request if possible.

CHARACTERISTICS

- Continuous recovery of processing oil directly in the machine tool, even while the system is running
- Less maintenance in the filtering groups due to the lower amount of pollutants crossing them
- Increasing amount of air sucked from the machine tool; no dragging oil (4-6 l / hour)
- Lower energy consumption thanks to less clogging of the filtering group
- Savings on processing oil cost
- Less CO_2 production

CASE HISTORY

Tests carried out at our customers show an average recovery on machine tools that work at high pressure (80-100 Bar) and which use whole oil at 5 cSt of about 6 liters. of oil per day per machine, which at an average cost of € 4.0 / l, corresponds to 6l x 4 € x 285 working days per year = € 6,840.00 per year for each machine tool.

POSSIBLE APPLICATIONS

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