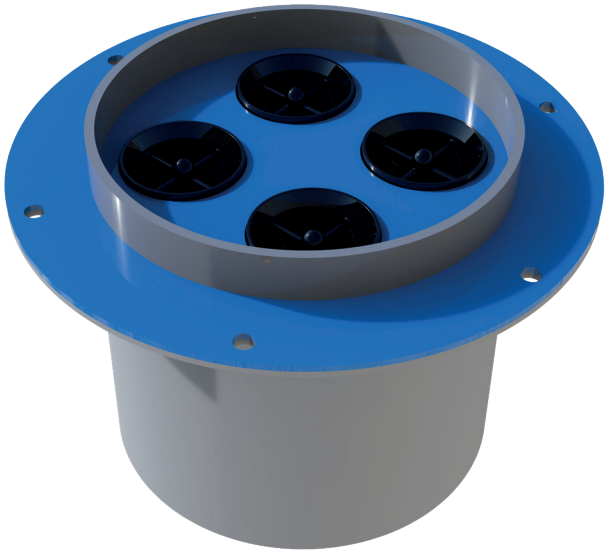
NERO INDUSTRIES
Advanced Reliability

CYCLONE FILTER



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CYCLONE FILTER

- On CBRN filtration system the dust particles within the drawn air are separated by giving "spin motion"(both circular and vertical motion) to air flow.
- When it is used before the filters, it extends the filter life.
- High capacities can be provided by parallel connection.

Cyclone filter separates the particles from the air by forcing the air with "spin method". The spinning air "pushes" solid particles to outer side of the air flow and provides the particles to fall outside the air flow and settle there. Cyclone collectors are generally used as separator for coarse dust from ait flow and often as pre-cleaner before an efficient filter and/or a product separator.

The polluted air getting in from the entrance on upside of the cyclone with high speed, is forwarded to cyclone internal walls with centrifugal force of particles whose density is higher than the conveyer atmosphere, by giving it a helical flow form through cyclone construction.

Cyclones also reduces dust load reaching the filter by operating as first stage dust ejector before the filter on systems where dust load is high. By this means, it becomes possible to used filter unit more efficiently. These filters can be connected in series according to capacity calculations when it is necessary.

Filter Type	Filter Dimensions (diameterxsize)	Usage Type	Efficiency
Small Type	19mm x 66mm 0.75" x 2.6"	Single	92-96%
		Serial	95-99%
Wide Short Type	38mm x 102 mm 1.5" x 4"	Single	88-94%
		Serial	90-96%
Wide Long Type	38mm x 152 mm 1.5" x 6"	Single	92-95%
		Serial	96-98%

MIL-STD-810

- Low Temperature Storage
- Low Temperature Operation
- High Temperature Storage
- High Temperature Operation
- Low Pressure(Altitude)
- Vibration

AECTP-400 Ed.3, Figür B-4)

- Shock (Prosedür I, Fonksiyonel Şok)

* Shock Time: TD= 11ms
* Max. Accelaration: TP= 40g
* Shock Profile: Saw tooth

- Humidty