

# Data Sheet 74.1

## Super Cyclofan®



The Super Cyclofan is the optimal integration between a Cyclone - and the Turbine Fan. The Super Cyclofan is currently the most efficiently dust separation ventilator on the market.

With its high separation ability and low energy consumption it is very suitable for all kinds of dust separation.

The Super Cyclofan is an alternative to filter units, especially when the air is moist and dust laden.



The Super Cyclofan is available in four models with different capacities.

**Table 1: Models and Capacities**

Type	Motor effect [kW]	Air volume [Nm <sup>3</sup> /h]	Pressure Ps [mm WG]	Weight [Kg]
CF 610	7.5	12.500	75	390
CF 615	11.0	15.500	75	425
CF 920	15.0	30.500	75	610
CF 930	22.0	36.500	75	660

### Function

The principle in the patented Super Cyclofan is a further development of the well known Cyclofan – principle. The air-stream is put into an extremely intensive rotation and at the same time the pressure is increased. In the rotating air stream the dust particles are hurled against the cylinder and skimmed of before the air leaves the Cyclofan.

### Efficiency

The Super Cyclofan has a very high dust separation ability. Compared to a conventional Cyclofan the Super Cyclofan shows better results with grain dust. It is possible to obtain a separation up to 99%.

The Super Cyclofan separates dust from air with a dust content of up to 12 g/Nm<sup>3</sup>. No other product shows the same dust separation degree with comparable space - and effect requirements.

### Energy Consumption

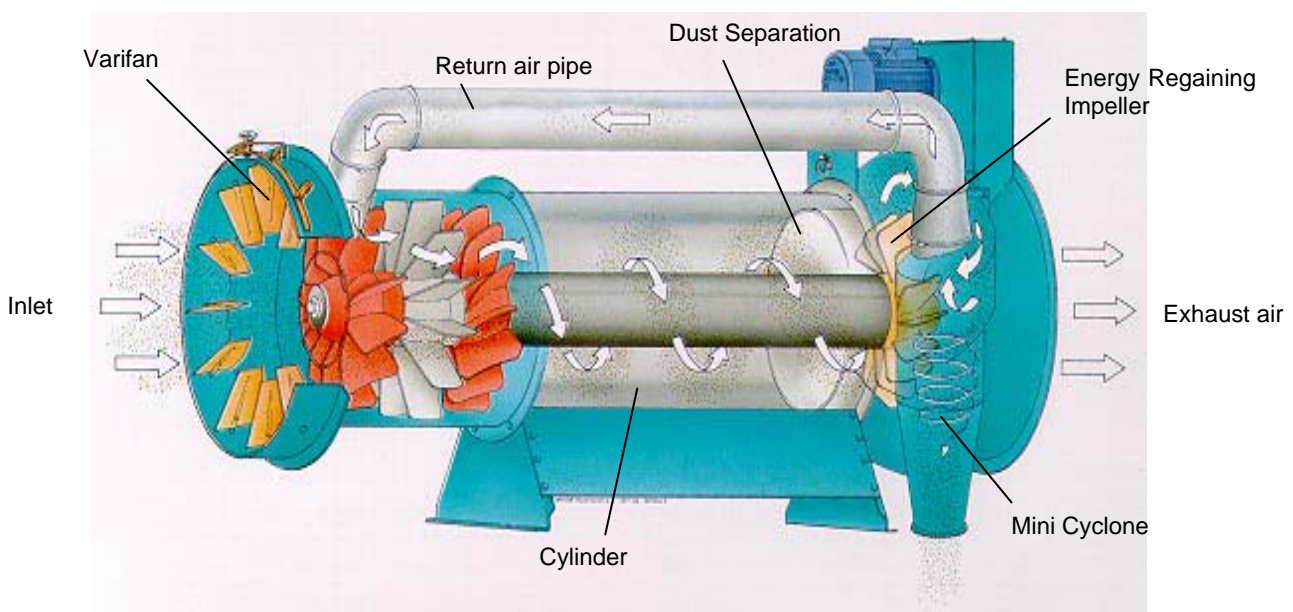
The Super Cyclofan is supplied with a regaining impeller which straightens the air-stream before it leaves the fan. The regaining impeller leads the regained energy back to the drive shaft through a V-belt.

In this way the Super Cyclofan can be compared with a turbo-charger. This system reduces the energy consumption by up to 30% compared to a conventional Cyclofan with a comparable degree of separation.

### Energy Saving Air Regulation

The Super Cyclofan is supplied with an air volume regulator, type Varifan. The Varifan is made of adjustable guide plates placed as a rosette. The Varifan is placed in the inlet end of the Super Cyclofan. It regulates the air volume and reduces the energy consumption with lowered capacity.

The Super Cyclofan can be mounted both vertically and horizontally.



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