

Dust Collectors

Description

Dust Collectors for Plasma and Oxy

ECOLINE | Dust Collectors for Plasma and Oxy cutting

ECOLINE dust collectors have marked a significant turn in the industrial filtration field thanks to their high performances in suction and filtration.

SIDEROS ENGINEERING has been the first company worldwide to introduce a new philosophy of compact dust collectors for PLASMA CUTTING MACHINES.

The main Advantages of these dust collectors are the following:

- High Suction and Filtration performances
- High airflow rate for long and wide down draft tables
- Heavy duty construction Automatic cleaning
- Low energy consumptions
- Abatement of maintenance costs
- Fire risk protection
- High Product customization
- Perfect integration with the CNC cutting machine
- Oversized solution for shipyard installations
- Endurance of the filtration elements thanks to the TOP GRADE patented cartridge filters
- Filtration efficiency: 99,997% Filtration class: M

ECOLINE cartridge dust collectors belong to the category of absolute filters, because they always guarantee a post-filtration level of dust emissions $<1\text{mg/m}^3$, even in the presence of extremely fine particles. Once the air has been filtered, it results to be so purified that it can be released directly into the workplace.

Features



- Compact with integrated **motor fan**.



- Integrated **anti-spark trap** and **metal mesh pre-filter** for a better fire protection.



- Electric box perfectly integrated in the filter with the following functions: start/stop, remote control, cartridge obstruction control, alarms detection.



- Basket with bag to facilitate the collection and handling of dust.



■ Horizontal cartridges for ease of replacement.



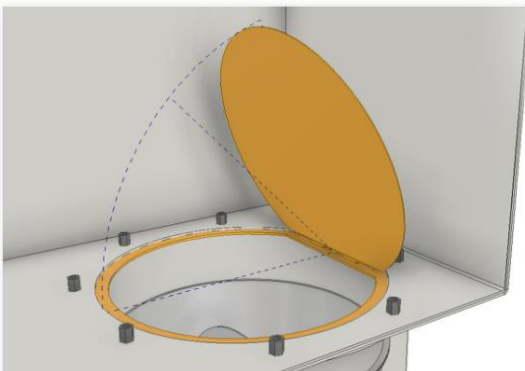
■ The carpentry is made in a **monobloc structure** to increase the solidity and the life of the machine **avoiding** dangerous and unpleasant **dust spills** from the machine.



■ Fire prevention system with hole for extinguisher nozzle.



■ Patented **Lifting eyebolts** for better handling.



■ **Anti-return valve** to prevent smoke and dust from returning to the system during cleaning cycles when the machine is off.



■ The great compactness allows the transport of more units in the same container.

Datasheet

Datasheet: Dust Collectors for Plasma and Oxy cutting

		ECO 2C	ECO 2V	ECO 4 HCS	ECO 6 HCS/CTS	ECO 9 CT/CTS	ECO 12 CT/CTS	ECO 16 CT/CTS	ECO 24 CT
Filters	n°	2	2	4	6	9	12	16	24
Filtration area	m² (ft²)	42 (452)	42 (452)	84 (904)	126 (1,356)	189 (2,034)	252 (2,712)	336 (3,616)	504 (5,420)
Motor fan	kw	2.2/3	3/4	5.5/7.5	5.5/7.5/9	11/15/18.5	15/18.5/22	18.5/22/30	22/30/37
Airflow	m³/h (ft³/min)	1.800 (1,100)	1.500/2.000 (915/1,340)	2.400/3.600 (1,450/2,200)	3.600/5.400 (2,200/3,300)	5.400/8.100 (3,300/4,950)	7.200/10.000 (4,400/6,100)	9.600/12.000 (5,850/8,555)	12.000/15.000 (7,300/11,000)
Valves	n°	2	2	4	6	9	12	16	12
Height	mm (ft)	1.200 (3.9)	2.100 (6.9)	2.200 (7.2)	2.600 (8.5)	3.270 (10.7)	3.700 (12.1)	3.800 (12.5)	4.000 (13.1)
Depth	mm (ft)	1.500 (4.9)	1.100 (3.6)	1.320 (4.3)	1.420 (4.7)	1.620 (5.3)	1.620 (5.3)	1.800 (5.9)	2.400 (7.9)
Width	mm (ft)	800 (2.6)	750 (2.5)	1.250 (4.1)	1.300 (4.3)	1.950 (6.4)	1.950 (6.4)	2.300 (7.6)	2.500 (8.2)
Weight	kg (lb)	320 (705)	450 (990)	610 (1,340)	750 (1,650)	1.300 (2,870)	1.500 (3,300)	1.700 (3,750)	2.380 (5,250)