VHICH
DUST COLLECTOR

SCT8-75F6X SERIES
Inclined type |
Cartridge dust collector | Leading model

Powerful Suction

Multiple filtration
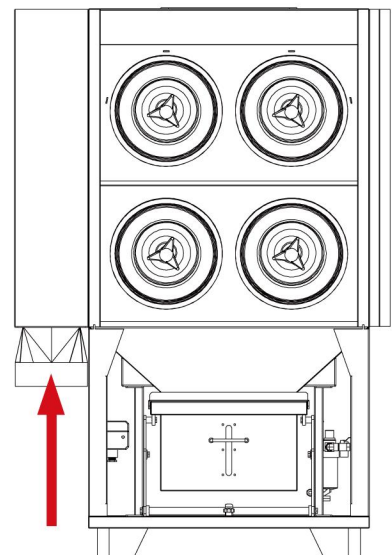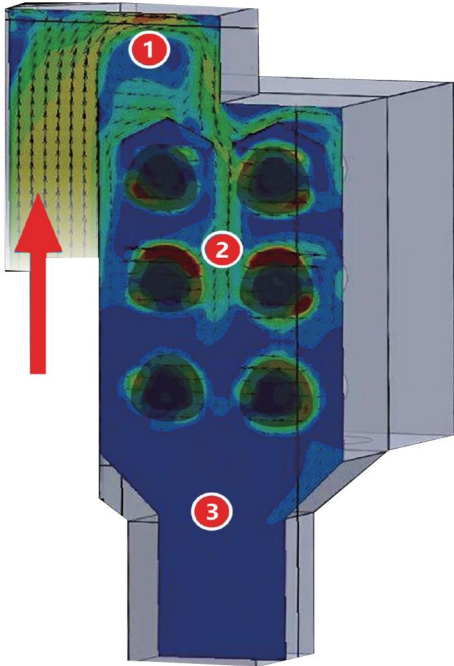
Downflow design

Easy operation

Lower wind noise

Saving energy and environmental protection

Innovative Design

The SCT8 series is an independent integrated dust collector with multiple cartridge filters. A dust collector specially designed for dust generated by thermal cutting and welding processes. This equipment is widely used for dust removal in metal welding, laser cutting, plasma cutting and metal polishing industries.

● It adopts a downflow layout and a tilted filter cartridge installation structure, so the dust collector has a good synchronous cleaning effect during the working process;

● The purification efficiency is high, with a purification efficiency of more than 99.9% for dust above sub-micron. The equipment has low operating resistance, effectively saving the energy consumption of the dust removal system;

● The dust gas inlet is equipped with a dust shield, which has buffering and wear-resistant functions, preventing dust from directly impacting the filter cartridge at high speed, thus extending the service life of the filter cartridge;

● The 15° tilted drawer-type installation of the filter cartridge makes it easier to replace the filter cartridge, and there are no transmission parts in the dust collector body, which reduces maintenance work. For general dust, the filter cartridge can be used for a long time without replacement.

● Modular combination, the size can be selected at will, the original combination can be expanded, and dust removal units can be added without making too many changes to the original equipment.

Optimum airflow distribution

① **Versatility Flexibility in Design**

Simple piping provides ease of connection, and piping is installed from the start of fabrication, increasing processing and maximizing filtration capacity.

② **Airflow is evenly distributed**

Minimizes high-velocity airflow for maximum efficiency and long-term filtration.

③ **Low airflow disturbance area**

Effectively reduce the airflow speed at the bottom of the hopper and maximize the dispersion of smoke and fine particles.

Versatility Flexibility in Design

Pulse cleaning chamber

Automatic cleaning of the equipment filter through the gas pulse valve, effectively reducing the cost of manual maintenance and making the equipment more stable
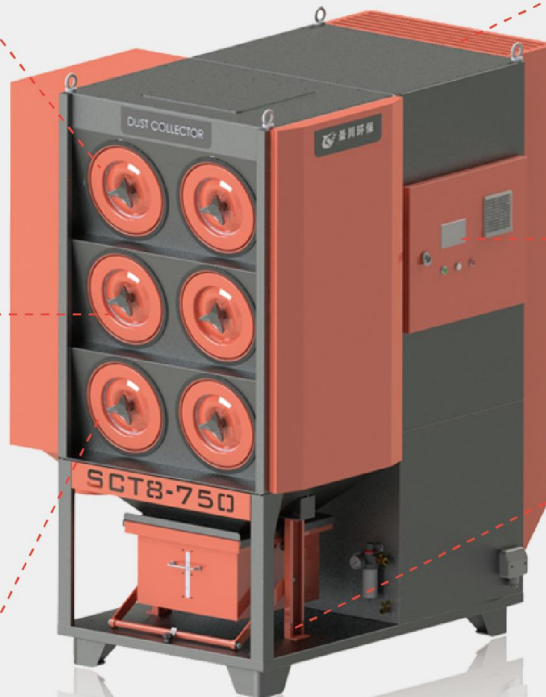
Disassembly and assembly of inclined filter element

The filter element is installed obliquely to avoid damage caused by contact with dust when replacing the filter element, making the removal of the filter cartridge more convenient and safer

High-efficiency flame retardant polyester filter element

Different filter materials can be selected according to the pollutants to realize more effective capture and efficiency

Air outlet silencer

Minimize fan noise through reasonable air duct silencer design
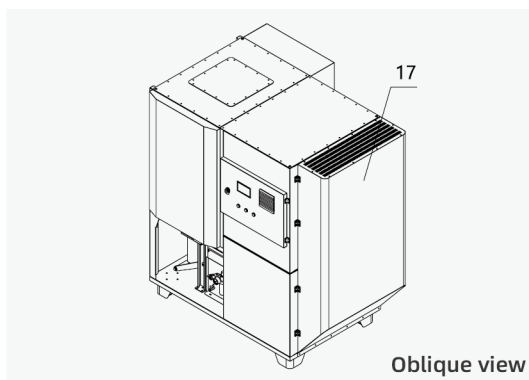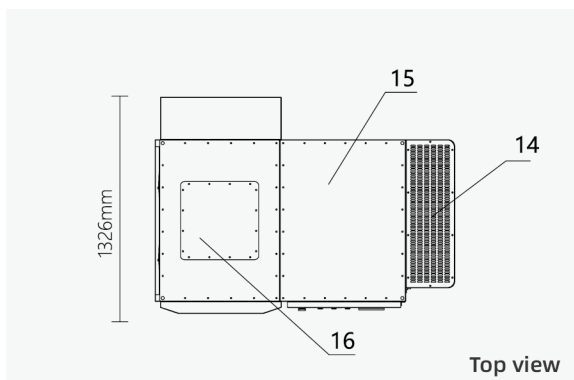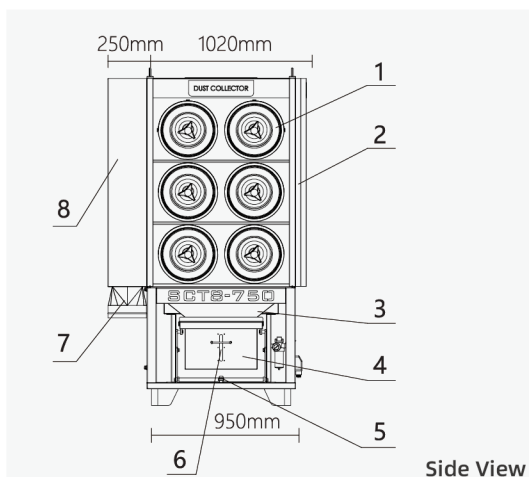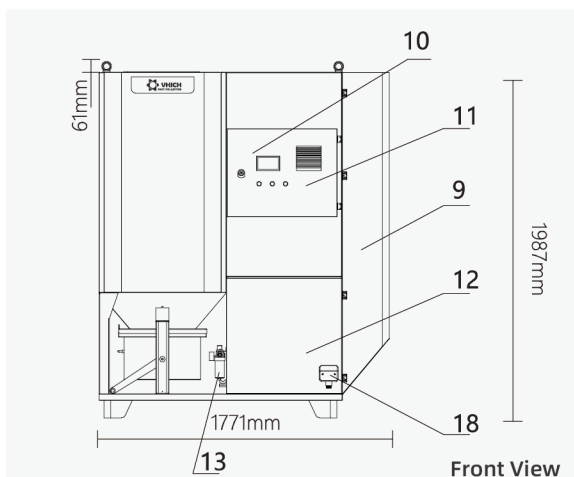
Integrated control system

Integrated PLC electrical appliances to control all dust collector operating functions

Quick dust box

The dust box is loaded and unloaded using the mechanical lever principle. The dust box is fixed by directional guide rails. It is equipped with universal casters for easy movement of the dust box, making cleaning the dust box very convenient and fast

Front View

Side View

Top view

Oblique view

1. High-precision nano filter cartridge
2. Sound insulation board
3. Hopper/ash collection hopper
4. Dust box
5. Ash discharge lever
6. Observation window
7. Air inlet
8. Spark arrester
9. Air outlet duct
10. PLC control screen
11. Electrical system
12. Fan cavity
13. Oil-water separator
14. Air outlet
15. Pulse cleaning chamber
16. Upper air inlet
17. Silencer
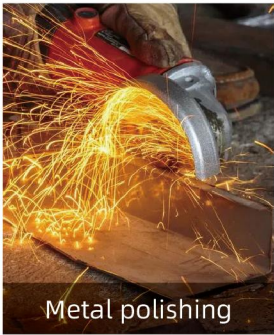18. Power junction box

Selection Parameter Table

Equipment name	Cartridge dust collector	Air pressure monitoring	Yes
Type	Energy-efficient	Intelligent frequency conversion	Yes
Model	SCT8-75F6X	Automatic fire extinguishing	Optional
Power	7.5/KW	Pulse cleaning	Automatic dust cleaning (intelligent dual mode)
Motor brand	Siemens	Filter cartridge material	Ahlstrom nano flame retardant filter paper/130g polyester fiber coating
Fan brand	VHICH	Explosion-proof function	Optional explosion vent discs, flameless explosion vents, explosion-proof electrical appliances, explosion-proof fans, motors, explosion-proof valves, and spark detection
Air volume	6000-7000		
Control System	PLC+Intelligent control screen	Filter cartridge configuration	6/324*660
Electrical components	Schneider	Flter area	144m²
Remote control	Yes (remote control transmission)	Noise	70dB±5
Spark capture	Spark arrester + flame arrester	Volume	60L
Differential pressure monitoring	Yes	Weight	800KG
Temperature monitoring	Yes	Dimensions	1771*1326*1987mm
Air volume monitoring	Yes		

Product pictures and external dimensions are for reference only and shall prevail in kind.
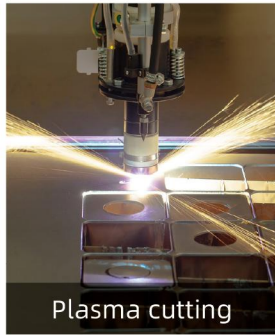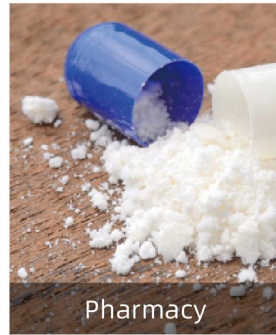
Application Areas

Shengchuan SCT8 industrial cartridge dust collector can be widely used to purify smoke and dust generated in various industries, steel, electric power, building materials, new energy, lithium battery, photovoltaic, chemical industry, food, electronics and other industries. The product has high purification efficiency and low noise It has the characteristics of low life, long service life and small floor space.
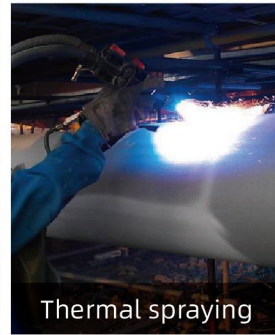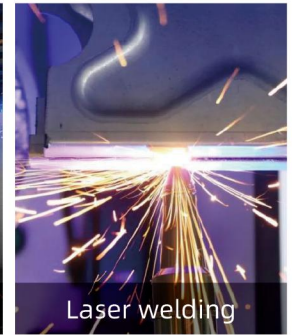
Metal polishing	Plasma cutting	Pharmacy	Thermal spraying	Laser welding

Live Cases

Shanghai Sanchuan Environmental Protection Technology Co., Ltd. is equipped with high-quality engineering and technical service engineers, specializing in after-sales service. Convenient and timely to provide users with quality and satisfactory service is the commitment of Shanghai Sanchuan Environmental Protection Company.

Optional Accessories

Spiral ventilation duct	Frequency converter	Temperature Sensor	Flameless relief device	Pipe spark arrester
Fire damper	Explosion proof valve	Automatic fire extinguisher	Spark detector	Explosive leaks