

DCSC-S Modular stationary filter unit



Description

Modular self-cleaning DCSC-S filter unit is specially designed for cleaning of air from aerosols emitted during thermal metal cutting applications and welding, as well as from other types of non-sticky and non-combustible dusts or fume particles. DCSC-S is intended for indoor operation as a part of air extraction and cleaning system. Unit is equipped with highly efficient compressed air pulse filter cleaning system. Connection to external compressed air supply is required. Additional cleaning efficiency is provided by special air splitter inserts installed in each of the filter cartridges of the unit. Modular design of the filter unit allows to easily build the DCSC-S unit of required capacity and size. Standard modules and fittings ensure the simple assembly and installation procedures.

Industries and applications

- Metal works
- Engineering
- Chemical
- Metallurgy
- Welding processes
- Ore mining

Features and advantages

- Modular design
- Easy assembly and installation
- Simple change of filter cartridges
- High filtration efficiency
- Effective air cleaning system
- Compatible with different types of filter media

Delivery set / Standard kit info

- Filter cartridges (quantity and type depends on the exact model of filter unit)
- Filter body (consists of sBM-2 and sBM-4 modules)
- Inlet/outlet fittings
- Floor support (legs)
- sMFA hopper
- sDB-60-250 dust collector 60l (quantity depends on the exact model of filter unit)
- sAZD regulation damper (quantity depends of the exact filter unit)
- sVMO oil separator with gauge and pressure reduction box
- sDNMP100 differential gauge with bracket
- sCONT control panel
- sCAF pneumatic kit

Restrictions

- Not suitable for explosive or combustible substances
- Not suitable for materials that tend to smolder or self-ignite

List of DCSC-S models

Model	Airflow, m ³ /h	Filtration area, m ²	No. of cartridges	sINL and sOUTL fittings, mm	Number of prefilters*	Pneumatic connection	Type of filter cartridge
DCSC-s-2-FD	600-2000	24/20	2	315	sBPF - s-1	sCAF-4	Pcart-12 Acart-12 Tcart-12 Tcart-10
DCSC-S-2	600-2000	24/20	2	315	sBPF - 1	sCAF-4	
DCSC-S-4	1200-4000	48/40	4	315	sBPF - 1	sCAF-4	
DCSC-S-6	1800-6000	72/60	6	315	sBPF - 1 sBPF-S - 1	sCAF-6	
DCSC-S-8-V	2400-8000	96/80	8	400	sBPF - 2	sCAF-8V	
DCSC-S-8-H	2400-8000	96/80	8	400	sBPF - 1	sCAF-8H	
DCSC-S-10-V	3000-10000	120/100	10	400	sBPF - 2 sBPF-S - 1	sCAF-10V	
DCSC-S-12	3600-12000	144/120	12	400	sBPF - 1 sBPF-S - 1	sCAF-12	
DCSC-S-12-H	3600-12000	144/120	12	400	sBPF - 3	sCAF-12H	
DCSC-S-12-V	3600-12000	144/120	12	400	sBPF - 3	sCAF-12V	
DCSC-S-16	4800-16000	192/160	16	500	sBPF - 2	sCAF-16	
DCSC-S-16-H	4800-16000	192/160	16	500	sBPF - 4	sCAF-16H	
DCSC-S-16-V	4800-16000	192/160	16	500	sBPF - 4	sCAF-16V	
DCSC-S-18	5400-18000	216/180	18	500	sBPF - 3	sCAF-18	
DCSC-S-20	6000-20000	240/200	20	500	sBPF - 2 sBPF-S - 1	sCAF-20	
DCSC-S-24-H	7200-24000	288/240	24	400	sBPF - 4	sCAF-24H	
DCSC-S-24-V	7200-24000	288/240	24	500	sBPF - 6	sCAF-24V	
DCSC-S-32-H	9600-32000	384/320	32	500	sBPF - 4	sCAF-32H	
DCSC-S-32-V	9600-32000	384/320	32	500	sBPF - 8	sCAF-32V	
DCSC-S-36	10800-36000	432/360	36	500	sBPF - 6	sCAF-36	
DCSC-S-48-H	14400-48000	576/480	48	500	sBPF - 6	sCAF-48H	
DCSC-S-48-V	14400-48000	576/480	48	500	sBPF - 8	sCAF-48V	
DCSC-S-64	19200-64000	768/640	64	500	sBPF - 8	sCAF-64	

*NOT INCLUDED into standard delivery set

Spare filter elements

Article №	Cartridge type (index)	Application area	Features
Standard cartridges, 12 m²			
6900	Pcart-12	Dust with particle size over 0.5 µm.	Preliminary coating by sPreco-N is recommended (500 to 1000 g per 1 cartridge). It is essential to control and keep the recommended air flow.
		Welding aerosols	Preliminary coating by sPreco-N is required (500 to 1000 g per 1 cartridge). It is essential to control and keep the recommended air flow.
6901	Acart-12	Dust with particle size over 0.5 µm prone to electrostatic charge accumulation.	Preliminary coating by sPreco-N is recommended (500 to 1000 g per 1 cartridge). It is essential to control and keep the recommended air flow.
6903	Tcart-12	**Plasma, laser and gas cutting aerosols. Welding aerosols. Sublimates, soldering fumes. Various types of dust with majority of fine fraction (Dust with particle size less than 0.5 µm).	Preliminary coating is not necessary. For heavy duty applications. Higher speed of filtration is allowed. Longer cartridge life-time.
Special cartridges, 10 m² For very rough working conditions.			
6908	Tcart-10	Welding aerosols. Sublimates, soldering fumes. Various types of dust with majority of fine fraction (Dust with particle size less than 0.5 µm).	Preliminary coating is not necessary. For very rough working conditions at thermal cutting of metals and similar processes. Higher speed of filtration is allowed. Longer cartridge life-time.

**Recommended air flow per cartridge:

– plasma cutting – 430 m³/h (for T12), 360 m³/h (for T10);

– laser and gas cutting – 580 m³/h (for T12), 480 m³/h (for T10).

Consult with SovPlym JSC upon selection of filters and ventilation units for thermal (plasma, laser or gas) cutting.

Accessories

	Article №	Model	Description
	10009	sCONT	Control unit up to 32 valves. Programmable timer. Filter cleaning cycle control
	5170	Hopper sMFA	Hopper for dust collection
	5167	Inlet/outlet 315	Inlet/outlet socket, 315 mm, w/out plugs
	5168	Inlet/outlet 400	Inlet/outlet socket, 400 mm, w/out plugs
	5169	Inlet/outlet 500	Inlet/outlet socket, 500mm, w/out plugs
	6957	Inlet/outlet 315-S	Inlet/outlet socket shortened, 315 mm, w/out plugs
	6958	Inlet/outlet 400-S	Inlet/outlet socket shortened, 400 mm, w/out plugs
	6959	Inlet/outlet 500-S	Inlet/outlet socket shortened, 500 mm, w/out plugs
	6154	sZ-315	Plug, 315 mm
	6155	sZ-400	Plug, 400 mm
	6156	sZ-500	Plug, 500 mm
	6352	sBPF	Mesh pre-filter
	6952	sBPF-S	Mesh pre-filter, small
	6160	sDB-40-250	Dust bin, 40l, 250 mm flange
	6169	sDB-60-250	Dust bin, 60l, 250 mm flange