

All about electrostatics, our know-how is yours!

The Next Generation DUST COLLECTOR



SDC Series

In display, semiconductor, and IT related business fields, the enforcement of particle management level has increased. Our SDC Series, is called Dust Collector, suits those circumstances to collect any floating particle/dusts around the area. Using electrostatic forces to eliminate/absorb floating particles around the production process, it significantly reduces the failure rate of maintaining the Clean-process of the atmosphere and optimized the product completion that is effective in reducing maintenance costs.

Key Features

- Dust collector for special management area in the clean room
- The system is combined with 7mini cell and 17standard cell
- Various layout composition by using cell connecting bracket
- With 1controller, it can be connected with 2, 4, 6 Cells at once
- Provide cover for user safety (detachable)
- When any direct human or conducting material contacts are detected, it will alarm and the power will be shut down
- Display panel is available(Optional)
- Dust/particle collector in clean room

Specifications

- Cell [Mini Cell / Standard Cell]

Parameter		Description / Value		Remarks
Input Voltage	Collector	DC +5kV		±10%
	Emitter	DC -5kV		H/V Connector
Operation Circumstance		0°C~+50°C(32°F~122°F), 35%~85% RH		
Dust Collecting Rate	Mini	30% ~ 50%		Distance : 30 ~ 70mm Dust : 0.3 ~ 2.0µm Without Safety Cover
	Standard	50% ~ 70%		
Main Body Material		Aluminum		
Cover Material		Self-extinguishing PC		
Electrode Material		Stainless Steel		
Mounting Method		Wall		
Weight	Mini	1kg ~ 2.8kg		
	Standard	2.5kg ~ 5.5kg		
Option		Emitter Electrode, Cable Duct		
Maintenance	Electrode Cleaning : 1 month		Ultrasonic Cleaning	
	Electrode Replacement Cycle : 1 year		Emitter	
Warranty		1 year		

※ The appearance and specification of the product may be changed without prior notice for the improvement of the product.

- Display Panel [SDC-2DP / SDC-4DP / SDC-6DP]

Parameter	Description / Value			Remarks
	SDC-2DP	SDC-4DP	SDC-6DP	
Output Port	Run	2 Ports	4 Ports	6 Ports
	Alarm	2 Ports	4 Ports	6 Ports
Operation Circumstance		0°C~+50°C(32°F~122°F), 35%~65% RH		Non-Condensing
Cover Material		Stainless Steel		
Mounting Method		Wall		
Weight		1.5kg		
Function		Run / Alarm LED		
Warranty		1 year		

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- Controller [SDC-2P / 4P / 6P]

Parameter	Description / Value			Remarks
	SDC-2P	SDC-4P	SDC-6P	
Input Power		AC 100~240V, 50/60Hz		
Power Consumption		45W	70W	90W
Current Consumption		204mA	318mA	409mA
Output Port	P	2 Ports	4 Ports	6 Ports
	N	2 Ports	4 Ports	6 Ports
Output Voltage		DC ±5kV		±10%
Operation Circumstance		0°C~+50°C(32°F~122°F), 35%~65% RH		Non-Condensing
Weight		5kg	6.5kg	8kg
Cover Material		Stainless Steel		
Mounting Method		Desk Top		
Size	SDC-2P: 252.4(W) × 397.3(H) × 78.2(D)			
	SDC-4P: 252.4(W) × 397.3(H) × 128.2(D)			
	SDC-6P: 310(W) × 417.3(H) × 128.2(D)			
Function		H/V Abnormal Alarm, Set/Reset Button, Stop Button, Interface(Run state Alarm state), SDC-2DP/SDC-4DP/SDC-6DP(Optional)		
Warranty		1 year		

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Particle Counting Test Report

- ※ See the above chart for the result of Dust Collector Comparison Test. (Before & After) We have tested using particle counting device.
- ※ It can be different depending on the temperature, humidity, and air flow in applied environment.

- Model : Mini Cell SDC-1296 [% : The Rate of Dust Collection]

Particle Size [µm]	0.3 ~ 0.5		0.5 ~ 1.0		1.0 ~ 2.0	
	X	O	X	O	X	O
30	34%	28%	44%	37%	51%	46%
50	23%	16%	29%	19%	33%	22%
70	15%	10%	19%	12%	21%	16%
100	10%	10%	14%	13%	18%	15%

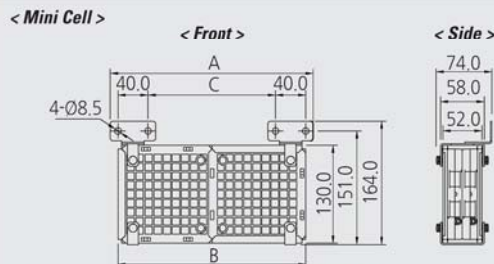
※ X : Cell without Safety Cover / O : Cell with Safety Cover

- Model : Standard Cell SDC-4668 [% : The Rate of Dust Collection]

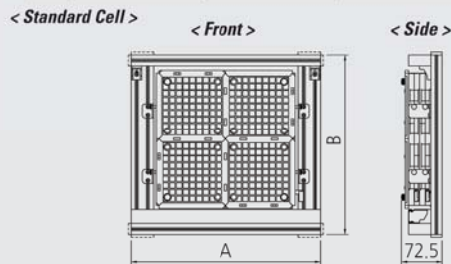
Particle Size [µm]	0.3 ~ 0.5		0.5 ~ 1.0		1.0 ~ 2.0	
	X	O	X	O	X	O
30	56%	48%	62%	52%	66%	59%
50	47%	38%	50%	46%	51%	49%
70	43%	32%	48%	39%	51%	41%
100	32%	22%	26%	24%	24%	21%

※ X : Cell without Safety Cover / O : Cell with Safety Cover

Dimensions



Model / Dimension				
No.	Model No.	A	B	C
1	SDC-1224	270	250	170
2	SDC-1236	390	370	290
3	SDC-1248	510	490	410
4	SDC-1260	630	610	530
5	SDC-1272	750	730	650
6	SDC-1284	870	850	770
7	SDC-1296	990	970	890



Model / Dimension				Model / Dimension			
No.	Model No.	A	B	No.	Model No.	A	B
1	SDC-3432	340	325	10	SDC-4668	460	685
2	SDC-3444	340	445	11	SDC-5832	580	325
3	SDC-3456	340	565	12	SDC-5844	580	445
4	SDC-3468	340	685	13	SDC-5856	580	565
5	SDC-3480	340	805	14	SDC-7032	700	325
6	SDC-3492	340	925	15	SDC-7044	700	445
7	SDC-4632	460	325	16	SDC-8232	820	325
8	SDC-4644	460	445	17	SDC-9432	940	325
9	SDC-4656	460	565				