

PCD1000IL

LIGHT COMMERCIAL INLINE EXHAUST/ SUPPLY AIR FAN



S&P's PCD Light Commercial models are configured with high-efficiency EC (commonly called DC) motors. These models consume lesser power per cfm of airflow while delivering strong airflow performance. Engineered with powerful centrifugal blowers to provide reliable performance at higher duct resistances in residential and Light Commercial applications. Packed with multiple built-in features, the PCD models make installation, commissioning, and code compliance simple and convenient.



Model: PCD1000IL



Autoflo is an innovative technology that automatically increases fan speed in response to rise in static pressure, helping to sustain the set airflow (cfm) as system resistance increases.

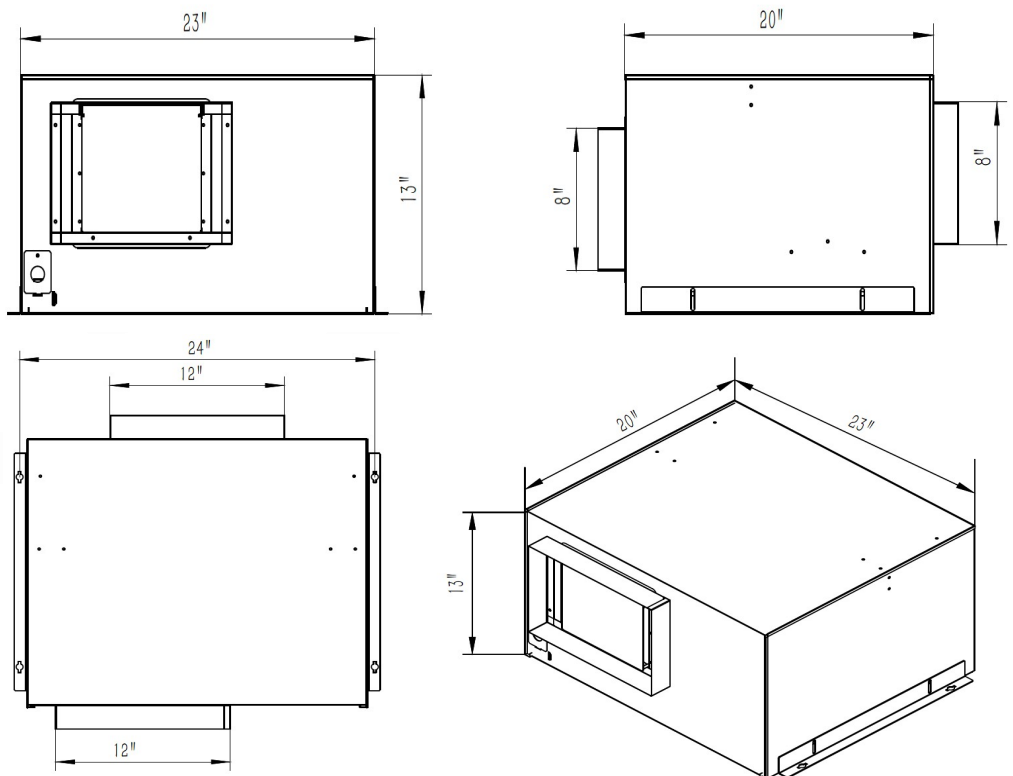
APPLICATIONS

- Multifamily housing,
- Hotels and motels,
- Restaurants and cafés
- Commercial buildings,
- Healthcare facilities
- Schools and educational facilities
- Fitness centers, Locker rooms,
- Public restrooms, Break rooms
- Warehouses, Storage rooms,
- Utility rooms,
- Maintenance rooms

KEY FEATURES

- Designed for quiet continuous operation as an In-line Exhaust/ Supply Air fan.
- Smart two-speed operation option to keep fan continuously running at low speed and jump to high speed.
- Set to approximate high speed of 1000cfm, 700cfm, or 500cfm through toggle adjustments on control board for optional two-speed operation.
- Built-in speed adjustment knob for low-speed in two-speed operation or single-speed operation.
- Built-in filter slots for supply air application. Filter available as an optional accessory. Filter Dimensions: 21-1/2" x 12-1/4" x 2", Qty: 1.
- Built-in Time Delay feature.
- Built-in overload disconnect for safety and longer motor life.
- Vibration Isolation Kit included in the box.
- Duct Connection: 12-1/4" X 8-1/4"
- Housing Construction: 20 Gauge Galvanized Steel Housing.
- Metal back-draft damper.
- Blowers: EC (also known as DC) motorized centrifugal blowers - Galv. Steel
- Warranty: 2 years for any manufacturing defects. Shipping Wt: 49Lbs

DIMENSIONS



CERTIFICATIONS



PERFORMANCE DATA																
MODEL	SPEED SETTING	NOMINAL SPEED	PARAMETER	STATIC PRESSURE IN. WG												
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125	1.25	1.375	1.5
PCD1000IL	400	1575	AIRFLOW (CFM)	570	530	490	450	400	355	290	285	250	215			
			POWER (WATTS)	38	43	50	55	64	65	74	77	81	83			
			SOUND (SONES)	3.5	3.7	3.9	4.1	4.2	4.4	4.5	4.7	5	5.2			
	500	1650	AIRFLOW (CFM)	770	740	710	685	655	625	590	555	520	485	445		
			POWER (WATTS)	85	93	101	108	114	121	128	136	143	150	153		
			SOUND (SONES)	4.3	4.5	4.6	4.8	5	5.4	5.7	5.9	6	6.1	6.2		
	600	1750	AIRFLOW (CFM)	1135	1115	1095	1075	1060	1045	1030	1010	1000	985	970		
			POWER (WATTS)	281	292	303	314	326	339	351	365	377	389	401		
			SOUND (SONES)	6.5	6.4	6.4	6.3	6.3	6.4	6.4	6.4	6.5	6.6	6.7		
PCD1000IL-MERV13	500	650	AIRFLOW (CFM)	505	470	435	395	355	320	295	265	220				
			POWER (WATTS)	46	51	55	60	64	69	73	76	75				
			SOUND (SONES)	4.1	4.2	4.3	4.5	4.7	5	5.3	5.5	5.8				
	700	680	AIRFLOW (CFM)	695	670	640	615	590	560	530	500	470				
			POWER (WATTS)	103	109	116	122	128	133	139	146	152				
			SOUND (SONES)	4.3	4.4	4.4	4.5	4.6	4.8	5	5.2	5.4				
	1000	900	AIRFLOW (CFM)	1040	1025	1005	990	975	960	940	905	830				
			POWER (WATTS)	334	345	356	368	377	387	396	388	351				
			SOUND (SONES)	5.7	5.7	5.8	5.8	5.8	5.9	6	6	6.1				

Performance certified is for models PCD600IL, PCD1000IL with and without MERV13 filter. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Rating Method "E" (Direct Drive, As Run Speed). Performance ratings include the effects of backdraft damper. Speed (rpm) shown is nominal.

Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft (1.5m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type D: ducted inlet spherical fan sone levels. Ratings do not include the effect of duct end correction.



S&P USA VENTILATION SYSTEMS LLC certifies that the PCD600IL and PCD1000IL models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



MODEL	CERTIFICATIONS	PERFORMANCE	
PCD300IL	HVI - AIR & SOUND, AMCA - AIR	LOW SPEED	Approx. min. 40CFM to 300CFM - Adjustable using knob
		HIGH SPEED	Approx. 100CFM, 150CFM, 200CFM, 300CFM - Toggle Settings
PCD600IL	AMCA - AIR & SOUND	LOW SPEED	Approx. min. 200CFM to 600CFM - Adjustable using knob
		HIGH SPEED	Approx. 400CFM, 500CFM, 600CFM - Toggle Settings
PCD1000IL	AMCA - AIR & SOUND	LOW SPEED	Approx. min. 300CFM to 1100CFM - Adjustable using knob
		HIGH SPEED	Approx. 500CFM, 700CFM, 1000CFM - Toggle Settings
PCD1500IL	AMCA - Pending	LOW SPEED	Approx. min. 400CFM to 1500CFM - Adjustable using knob
		HIGH SPEED	Approx. 700CFM, 1000CFM, 1500CFM - Toggle Settings

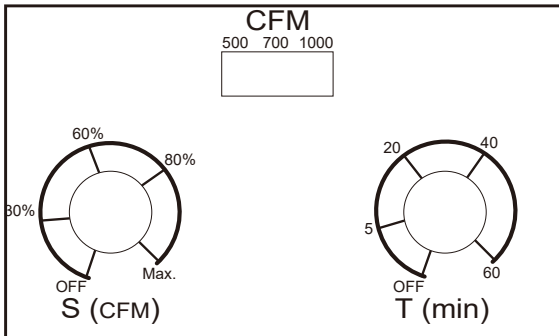
MODEL	DUCT CONNECTION	FILTER PART ID	FILTER DIMENSIONS
PCD300IL	6" ROUND	PCDIL-M13F2, QTY 01	9-3/4" X 10-3/4" X 2"
PCD600IL	7.25" X 18.625"	PCDIL-M13F2, QTY 02	9-3/4" X 10-3/4" X 2"
PCD1000IL	8.25" X 12.25"	PCD1000IL-M13F, QTY 01	21-1/2" X 12-1/4" X 2"
PCD1500IL	8.25" X 12.25"	PCD1500IL-M13F, QTY 01	21-1/2" X 18-3/4" X 2"

ELECTRIC DATA			
MODEL	ELECTRIC CHARACTERISTICS	MAX. POWER (WATTS)	MAX. CURRENT (AMP)
PCD300IL	115V/60Hz/1Ph	102	1.25A
PCD600IL	115V/60Hz/1Ph	201	2.5A
PCD1000IL	115V/60Hz/1Ph	411	3.5A
PCD1500IL	115V/60Hz/1Ph	550	5A

OPTIONAL ACCESSORIES	PCD300IL	PCD600IL	PCD1000IL	PCD1500IL
MOTORIZED DAMPER	MD6	MD10	MD12	MD14
VENTILATION CONTROLLER	ES24V-KIT	ES24V-KIT	ES24V-KIT	ES24V-KIT
PROGRAMMABLE FAN TIMER	FT247	FT247	FT247	FT247
3-SWITCH	PC3S	PC3S	PC3S	PC3S
FAN THERMOSTAT	2513.2E340			
VIBRATION ISOLATION KIT	INCLUDED	INCLUDED	INCLUDED	INCLUDED
MERV13 FILTER	PCDIL-M13F2, QTY 01	PCDIL-M13F2, QTY 02	PCD1000IL-M13F, QTY 01	PCD1500IL-M13F, QTY 01
RECTANGLE TO ROUND DUCT TRANSITION	NA	PCD600IL-RTR10	PCD1000-RTR12	PCD1500-RTR14



PCD1000IL INLINE FAN



Control Board (Built-in)

Optional General Accessories:

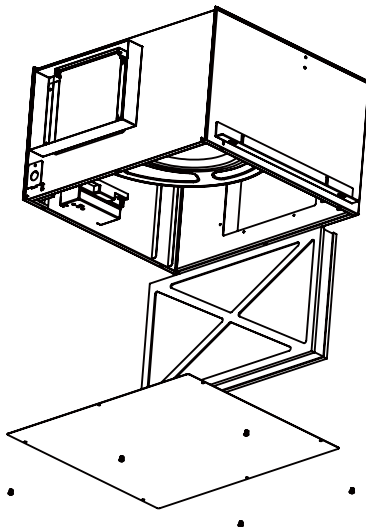
- MERV13 Filters
- Round Duct Adapter
- Roof Cap
- Wall Cap
- Motorized Damper

Optional Electric Accessories:

- FT247
- ES24V-KIT

SPECIAL FEATURE

Filter Slots for Supply air application (Built-in)



OPTIONAL TWO-SPEED OPERATION

The PCD1000IL model is designed to operate at single-speed or two-speed, to meet ventilation code requirements efficiently. Toggle switches offer 3 selectable high-speed settings. These represent approximate airflow values. For detailed airflow versus static pressure performance, please refer to this submittal (For instructions on wiring for single-speed or two-speed operation, please refer to the PCD1000IL manual.

CODE COMPLIANCE

AMCA Certified Ratings for Air Performance and Sound.

ETL Listed for electric safety.

Designed to support compliance with ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality in commercial and institutional buildings.

High-efficiency EC motor technology supports energy-efficient building design and may contribute toward compliance with ASHRAE 90.1.

Suitable for use in applications governed by the International Mechanical Code (IMC).

Can be applied in projects pursuing compliance with California Title 24 ventilation and energy efficiency requirements, where applicable.

FEATURED ACCESSORIES



Programmable Fan Timer 24
Hour/7 Day: FT247



Motorized Damper



Envirosense Ventilation
Control 24V: ES24V-Kit

