

EuroSeries (SDX EC)

- Available in sizes 125 to 315
- EC Motor, backward curved impeller
- Protected to IPX2
- Mounting for internal use
- Integral speed setting potentiometer
- 0-10v potentiometer speed controllable
- Operating temperatures from -25°C up to +60°C
- Quality Assurance to BS EN ISO 9001:1994
- 2 Year Warranty



The SDX EC Euroflow in-line centrifugal duct fans are designed around an efficient backward curved centrifugal impeller and EC motor to ensure a compact and efficient unit, providing high performance and controllability as standard.

The in-line fan casing is constructed from epoxy coated pressed steel and incorporates an aerodynamically designed airflow guide vane, ensuring maximum performance from the unit while maintaining minimum noise levels. All models are supplied with a simple mounting foot for ease of installation.

The SDX EC range is available in five model sizes: 125, 150, 200, 250 & 315mm diameter as standard performance.

The range provides a performance up to 0.36m³/s with a maximum pressure development of 600 Pa.

The SDX EC range is suitable for the extraction of clean air only. It is not suitable for extracting or transporting grinding dust, soot, explosive or other aggressive gases etc.

Impellers

All SDX EC units feature an energy efficient, Class 1, EC/DC external rotor motor and backward curved impeller assembly specifically chosen for performance and non-overloading characteristics. The assembly is dynamically balanced to DIN ISO 1940 Grade 6.3, IP44 according to BS EN 60529.

Ball bearings are greased for life. Insulation is Class 'B' (from -25°C to +60°C). All models incorporate internal electronic overload protection and soft start function.

Control

Every SDX EC unit is fitted with a integral commissioning potentiometer giving the ability to set the exact duty required at commissioning. Alternatively, the integral potentiometer can be bypassed to allow remote speed control via an external 0-10V potentiometer.

Terminal Box

An IP55 terminal box fitted to the casing with multiple cable entry positions.

Performance

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1m from the fan.

Quality Assurance

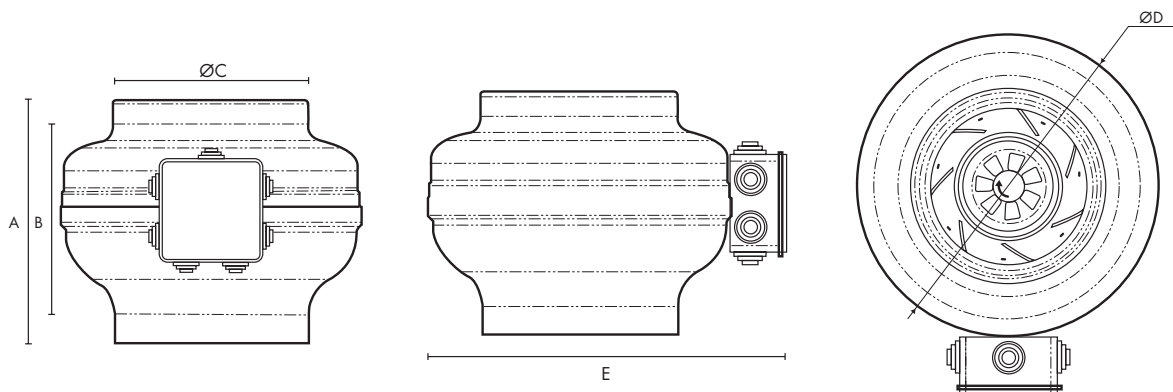
Design and manufacture is in accordance with the standard for quality management systems BS EN ISO 9001:1994.

Accessories

A full range of accessories are available with the Euroflow in-line centrifugal duct fans such as:

- 0-10V potentiometer
 - Pre & Secondary Filter Cassettes
 - Electric Heater Batteries
 - In-Line Attenuators
 - Backdraught Shutters
 - Fast Clamps
 - Flexible Ducting
 - Wall Terminals
 - Roof Terminals
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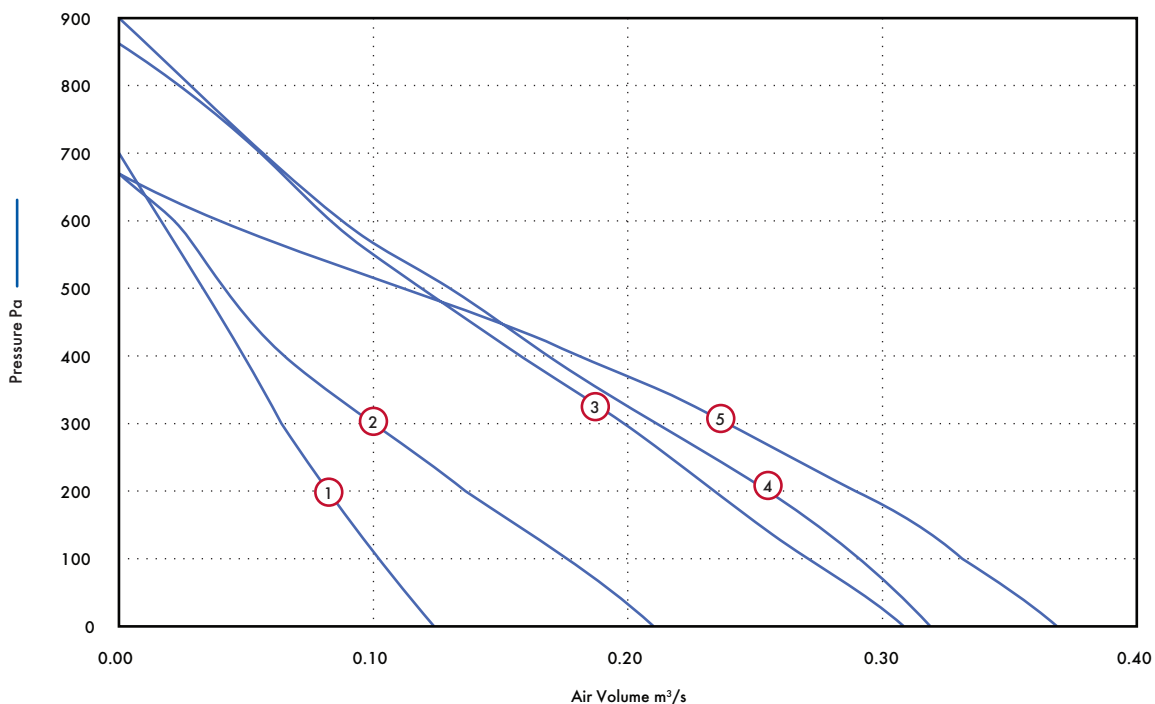
Dimensions (mm)



Unit Size	A	B	ØC	ØD	E	kg
SDX125EC	207	175	125	245	290	2.1
SDX150EC	222	172	150	344	386	3.1
SDX200EC	240	190	200	345	390	3.7
SDX250EC	245	185	250	345	390	3.6
SDX315EC	250	180	315	400	445	4.6

Performance Curves

SDX EC 125-315



Performance Guide

Dia.	Motor Phase	Stock Ref	r.p.m	IP Rating	Curve Ref.	m³/s @ Pa										Motor kW	F.L.C Amps	dBA @ 3m
						0	50	100	150	200	300	400	500	600	700			
125	1	SDX125EC 3200	IPX2	1	m³/s	0.12	0.11	0.10	0.09	0.08	0.06	0.05	0.03	0.02	0.08	0.75	35	
					kW	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07				
					W/l/s	0.67	0.73	0.81	0.89	1.01	1.27	1.59	2.07	3.96				
150	1	SDX150EC 2550	IPX2	2	m³/s	0.21	0.19	0.18	0.16	0.14	0.10	0.06	0.04	0.02	0.09	0.7	41	
					kW	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09				
					W/l/s	0.43	0.47	0.51	0.57	0.67	0.91	1.41	2.17	4.55				
200	1	SDX200EC 3230	IPX2	3	m³/s	0.31	0.29	0.27	0.25	0.23	0.20	0.16	0.12	0.08	0.06	0.17	1.4	33
					kW	0.17	0.17	0.16	0.16	0.17	0.17	0.16	0.17	0.16	0.16			
					W/l/s	0.54	0.59	0.60	0.64	0.71	0.85	1.04	1.37	1.92	2.88			
250	1	SDX250EC 3230	IPX2	4	m³/s	0.32	0.31	0.29	0.27	0.26	0.22	0.17	0.13	0.09	0.06	0.17	1.4	33
					kW	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17			
					W/l/s	0.52	0.54	0.57	0.61	0.65	0.78	0.99	1.30	1.89	0.28			
315	1	SDX315EC 2510	IPX2	5	m³/s	0.37	0.35	0.33	0.31	0.29	0.24	0.18	0.11	0.04	0.17	1.4	41	
					kW	0.14	0.14	0.15	0.16	0.16	0.17	0.16	0.15	0.12				
					W/l/s	0.37	0.40	0.45	0.52	0.56	0.69	0.90	1.33	3.14				

Sound Power Level Spectra dB (ref 10⁻¹² Watts)

Dia.	Motor Phase	Stock Ref	Spectrum	125	250	500	1k	2k	4k	8k	dBA @ 3m
125	1	SDX125EC	Inlet	53	58	68	64	66	61	54	50
			Outlet	48	53	63	59	61	56	49	45
			Breakout	38	43	51	48	51	46	39	35
150	1	SDX150EC	Inlet	56	60	71	66	69	63	57	53
			Outlet	51	55	66	61	64	58	52	35
			Breakout	44	48	59	54	57	51	45	41
200	1	SDX200EC	Inlet	20	62	69	72	71	68	64	56
			Outlet	48	57	64	67	66	63	59	51
			Breakout	-2	39	46	49	48	45	41	33
250	1	SDX250EC	Inlet	20	62	69	72	71	68	64	56
			Outlet	48	57	64	67	66	63	59	51
			Breakout	-2	39	46	49	48	45	41	33
315	1	SDX315EC	Inlet	55	63	67	71	70	72	62	56
			Outlet	50	58	62	66	65	67	57	51
			Breakout	40	48	52	56	55	57	47	41

Models & Accessories

Fan Stock Ref	0-10V External Control Stock Ref
SDX125EC	426332
SDX150EC	426332
SDX200EC	426332
SDX250EC	426332
SDX315EC	426332

Dia	In-Line Attenuators			
	300mm Stock Ref	600mm Stock Ref	900mm Stock Ref	1200mm Stock Ref
125	83012030	83012060	83012090	-
150	83015030	83015060	83015090	-
200	-	83020060	83020090	83020120
250	-	83025060	83025090	83025120
315	-	83031060	83031090	83031120

Fan Stock Ref	Wall Terminal Stock Ref	Wall Terminal Stock Ref	Electric Heaters Stock Ref	Panel Filters Stock Ref
125	SA125/280	SA125/80	10531125T1	QPF125A
150	SA150/280	SA150/80	10531150T1	QPF150A
200	SA200/280	SA200/80	10531200T1	QPF200A
250	SA250/280	SA250/80	10531250T1	QPF250A
315	SA315/280	SA315/80	10531315T1	QPF315A

Fan Stock Ref	Bag Filters Stock Ref	Roof Terminal Stock Ref	Louvre Shutter Stock Ref
125	QPFB125A	WB160	LS250
150	QPFB150A	WB160	LS250
200	QPFB200A	WB200	LS250
250	QPFB250A	RCZ300	LS250
315	QPFB315A	RCZ300	LS315