



Singleflow SSDR

Product Brochure

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Singleflow SSR

Roof Mounted Direct Drive Centrifugal Fan

roof



OVERVIEW

The Singleflow SSR...EC incorporates the BAT (Best Available Technology) Vpro backward curved impeller, with three dimensional profiled blades powered by the ultra reliable Ziehl-Abegg EC (electronically commutated) external rotor motor. The range of single roof fans are suitable for external mounting, manufactured in Aluzinc with a natural finish.

MORE INFORMATION

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QUICK FACTS

- ✓ 8 standard sizes from 200mm to 710mm.
- ✓ Air volume flow rates up to 4.03 m³/s (AC) / 4.01 m³/s (EC).
- ✓ Static pressures up to 1219 Pa (AC) / 1205 Pa (EC).
- ✓ Suitable for operating temperatures up to +60°C.
- ✓ Extensive range of stock available.

CASING

The unit casing shall be manufactured from 1.2mm thick natural finish Aluzinc.

The casing shall be designed so as to minimise vibration and shall incorporate a louvered air discharge guarded against bird ingress. Drain points shall also be provided.

Each casing provides a suitably sized circular inlet spigot to suit the duct size required. EPDM (Ethylene Propylene) rubber U shaped seals (being ozone and UV stable) are used to ensure a good seal back to the duct that is to be attached.

Top access panels shall be provided for ease of servicing.

IMPELLER

High efficiency low tonal noise backward curved centrifugal impeller, dynamically balanced to ISO 14694 Grade G6.3 and directly driven by the motor to provide a smooth airflow through the unit.

MOTORS

The single range of units may have either an EC or AC external rotor motor fitted as standard. The motor contains sealed for life bearings. Thermal Class of motors to THCL 130 or 155 dependent on size.

Manufactured by Ziehl-Abegg providing increased reliability. All motors are suitable for use in ambient air conditions up to +60°C.

QUALITY MANAGEMENT

All units in the Elta range are designed and manufactured to procedures as defined in BS EN ISO 9001:2008. They are also tested in accordance with BS848 Part 2 1985 (sound performance) and ISO 5801:2007 (airside performance).

TYPICAL APPLICATIONS

- Industrial Building
- Banks
- Hospitals
- Offices
- Hotels and Shopping Malls



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Singleflow SSDR

Performance, SFP & Electrical Data



SINGLE Phase - 200V to 240V / 50Hz

Product Code	Speed r/min	Airflow	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	Input kW		
SSDR200-1AC	2516	m³ / s	0.134	0.130	0.125	0.121	0.116	0.105	0.090	0.071	0.044	0.019			24.4	-	0.36	0.076	Inlet	47
		W / (L/s)	0.55	0.57	0.59	0.62	0.65	0.73	0.84	1.04	1.57	3.28							Outlet	42
SSDR250H-1AC	2518	m³ / s	0.278	0.272	0.267	0.261	0.254	0.241	0.226	0.208	0.188	0.165	0.139	0.084	26.8	N44	1.03	0.223	Inlet	53
		W / (L/s)	0.83	0.85	0.87	0.89	0.91	0.96	1.02	1.09	1.19	1.32	1.50	2.19					Outlet	49
SSDR250L-1AC	2564	m³ / s	0.225	0.219	0.214	0.208	0.202	0.188	0.172	0.152	0.129	0.102	0.073		25.7	N44	0.68	0.156	Inlet	52
		W / (L/s)	0.67	0.69	0.71	0.73	0.76	0.82	0.90	1.01	1.17	1.42	1.88						Outlet	47
SSDR315-1AC	1284	m³ / s	0.342	0.327	0.310	0.291	0.270	0.214	0.138	0.055					22.6	N41	0.68	0.150	Inlet	38
		W / (L/s)	0.43	0.45	0.48	0.51	0.55	0.67	0.96	2.06									Outlet	40
SSDR400-1AC	1395	m³ / s	0.545	0.532	0.517	0.501	0.483	0.440	0.380	0.290	0.185	0.083			28.8	N45	1.37	0.283	Inlet	46
		W / (L/s)	0.51	0.53	0.55	0.56	0.59	0.64	0.72	0.88	1.20	2.25							Outlet	46
SSDR500-1AC	1229	m³ / s	1.161	1.135	1.107	1.078	1.047	0.979	0.902	0.814	0.713	0.598	0.471	0.204	33.6	N46	2.97	0.655	Inlet	47
		W / (L/s)	0.54	0.55	0.57	0.59	0.62	0.67	0.73	0.80	0.90	1.04	1.25	2.32					Outlet	50

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category . FLC Amps @ 230V / 1Ph / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

Sound Data

SINGLE Phase - 200V to 240V / 50Hz

Product Code	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB	Silencer dBA Attenuation			
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz		JF1	JF2	JF3	JF4
SSDR200-1AC	2516	Inlet	80	74	72	65	58	55	51	50	82	-8	-11	-15	-18
		Outlet	54	59	58	60	57	55	53	51	66	-	-	-	-
SSDR250H-1AC	2518	Inlet	84	80	81	69	64	57	55	55	87	-6	-10	-12	-15
		Outlet	61	71	70	65	64	63	60	56	75	-	-	-	-
SSDR250L-1AC	2564	Inlet	82	78	79	68	63	57	54	55	85	-7	-11	-13	-16
		Outlet	60	70	66	65	63	61	56	55	73	-	-	-	-
SSDR315-1AC	1284	Inlet	73	70	63	54	46	45	42	34	75	-5	-7	-9	-12
		Outlet	62	68	61	57	56	53	47	40	70	-	-	-	-
SSDR400-1AC	1395	Inlet	81	79	69	62	57	54	51	46	83	-4	-6	-8	-10
		Outlet	68	74	67	62	61	58	55	49	76	-	-	-	-
SSDR500-1AC	1229	Inlet	77	77	71	66	57	57	53	53	81	-	-	-	-
		Outlet	70	76	72	68	66	62	57	56	79	-	-	-	-

Data provided at standard air density of 1.2 kg/m³.

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.

The Sound Power Level Spectra are in dB re-1pW.

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Singleflow SSDR

Performance, SFP & Electrical Data



THREE Phase - 380V to 415V / 50Hz

Product Code	Speed r/min	Airflow	Airflow m³/s @ Static Pressure Pa.												Motor Electrical Data			dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500	FLC Amps	Input kW	Δ / Y		
SSDR560-3AC	1345	m³ / s	1.861	1.827	1.794	1.763	1.733	1.673	1.613	1.552	1.487	1.418	1.340	1.140	2.30	1.248	Δ	Inlet	52
		W / (L/s)	0.61	0.63	0.65	0.66	0.68	0.72	0.76	0.79	0.83	0.88	0.93	1.07				Outlet	55
	1093	m³ / s	1.514	1.473	1.433	1.392	1.351	1.266	1.173	1.069	0.947	0.803	0.644	0.357	1.43	0.871	Y	Inlet	47
		W / (L/s)	0.55	0.57	0.59	0.61	0.64	0.68	0.74	0.82	0.91	1.05	1.24	1.89				Outlet	51
SSDR630-3AC	1188	m³ / s	2.294	2.258	2.221	2.184	2.147	2.070	1.989	1.903	1.810	1.707	1.593	1.317	3.38	1.75	Δ	Inlet	54
		W / (L/s)	0.73	0.75	0.77	0.78	0.80	0.84	0.88	0.92	0.97	1.03	1.10	1.29				Outlet	56
	788	m³ / s	1.493	1.428	1.365	1.301	1.233	1.078	0.889	0.695	0.540	0.419	0.315	0.131	1.54	0.78	Y	Inlet	43
		W / (L/s)	0.51	0.54	0.56	0.59	0.63	0.72	0.87	1.08	1.35	1.69	2.15	4.71				Outlet	46
SSDR710-3AC	1375	m³ / s	4.035	4.000	3.965	3.929	3.892	3.817	3.737	3.655	3.568	3.476	3.379	3.168	6.56	4.059	Δ	Inlet	63
		W / (L/s)	0.92	0.94	0.95	0.96	0.98	1.01	1.04	1.08	1.11	1.15	1.19	1.28				Outlet	65
	1156	m³ / s	3.360	3.309	3.258	3.206	3.152	3.043	2.929	2.810	2.686	2.554	2.415	2.111	4.55	2.922	Y	Inlet	57
		W / (L/s)	0.84	0.86	0.87	0.89	0.91	0.95	0.99	1.04	1.09	1.15	1.21	1.37				Outlet	58

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC Amps @ 400V / 3Ph / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20μPa and is presented for comparative purposes only.

Sound Data

THREE Phase - 380V to 415V / 50Hz

Product Code	Δ / Y		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SSDR560-3AC	Δ	Inlet	80	83	75	71	64	62	60	57	85
		Outlet	74	80	77	74	71	67	64	61	83
	Y	Inlet	77	78	70	65	58	57	54	52	81
		Outlet	70	78	73	68	67	62	57	55	80
SSDR630-3AC	Δ	Inlet	83	85	77	71	67	65	61	60	88
		Outlet	76	82	78	74	72	68	65	62	85
	Y	Inlet	80	72	66	59	56	54	53	46	81
		Outlet	73	70	69	64	62	57	53	47	76
SSDR710-3AC	Δ	Inlet	90	94	83	79	77	75	72	71	96
		Outlet	84	92	84	82	80	78	74	72	94
	Y	Inlet	87	89	78	71	71	68	63	63	91
		Outlet	80	85	79	76	73	70	66	64	88

Data provided at standard air density of 1.2 kg/m³.

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.

The Sound Power Level Spectra are in dB re-1pW.

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Singleflow SDDR

Accessories & Wiring Data



For more information on Accessories & Wiring Diagrams, please see individual product downloads, or visit eltaselect.com/information-centre

SINGLE Phase - 200V to 240V / 50Hz

Product Code	Electronic Controller	Transformer Controller	Flexible Connections (each)	Clamps (each)	Silencer 300mm Long	Silencer 600mm Long	Silencer 900mm Long	Silencer 1200mm Long	Wiring Diagram No.no
SSDR200-1AC	149-EL31	149-TC12	018-0200-FLEX	018-200-CLAMP	068-0200-JF1	068-0200-JF2	068-0200-JF3	068-0200-JF4	152-177
SSDR250H-1AC	149-EL31	149-TC12	018-0250-FLEX	018-250-CLAMP	068-0250-JF1	068-0250-JF2	068-0250-JF3	068-0250-JF4	152-177
SSDR250L-1AC	149-EL31	149-TC12	018-0250-FLEX	018-250-CLAMP	068-0250-JF1	068-0250-JF2	068-0250-JF3	068-0250-JF4	152-177
SSDR315-1AC	149-EL31	149-TC12	018-0315-FLEX	018-315-CLAMP	068-0315-JF1	068-0315-JF2	068-0315-JF3	068-0315-JF4	152-177
SSDR400-1AC	149-EL31TK	149-TC12	018-0400-FLEX	018-400-CLAMP	068-0400-JF1	068-0400-JF2	068-0400-JF3	068-0400-JF4	152-104A
SSDR500-1AC	149-EL31TK	149-TC14	018-0500-FLEX	018-500-CLAMP	Please enquire.				152-104A

THREE Phase - 380V to 415V / 50Hz

Product Code	Transformer Controller	Flexible Connections (each)	Clamps (each)	Silencer 300mm Long	Silencer 600mm Long	Silencer 900mm Long	Silencer 1200mm Long	Wiring Diagram No.no
SSDR560-3AC	149-TC33	018-0560-FLEX	018-560-CLAMP	Please enquire.				152-108
SSDR630-3AC	149-TC35	018-0630-FLEX	018-630-CLAMP					152-108
SSDR710-3AC	149-TC310	018-0710-FLEX	018-710-CLAMP					152-108

Optimum Energy Efficiency Point

SINGLE Phase - 200V to 240V / 50Hz

Product Code	Volume m³/s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSDR200-1AC	0.081	227	0.075	2516	24.4	N46
SSDR250H-1AC	0.151	379	0.213	2499	26.8	N44
SSDR250L-1AC	0.130	298	0.151	2564	25.7	N44
SSDR315-1AC	0.195	164	0.142	1284	22.6	N41
SSDR400-1AC	0.322	234	0.262	1395	28.8	N45
SSDR500-1AC	0.632	336	0.631	1229	33.6	N46

THREE Phase - 380V to 415V / 50Hz

Product Code	Volume m³/s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSDR560-3AC	1.107	513	1.217	1345	46.6	N56
SSDR630-3AC	1.293	508	1.698	1188	38.7	N46
SSDR710-3AC	2.217	823	3.819	1375	47.8	N52

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Singleflow SSDR

Performance, SFP & Electrical Data



SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage	Airflow	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	Input kW		
SSDR200-1EC	10V	m³ / s	0.176	0.173	0.171	0.168	0.164	0.158	0.150	0.143	0.134	0.123	0.112	0.078	40.1	N59	1.10	0.137	Inlet	55
		W / (L/s)	0.72	0.74	0.75	0.77	0.78	0.82	0.86	0.91	0.97	1.05	1.15	1.55					Outlet	50
	8V	m³ / s	0.167	0.163	0.159	0.155	0.150	0.142	0.132	0.123	0.112	0.101	0.089	0.060	41.6		0.93	0.105	Inlet	52
		W / (L/s)	0.61	0.62	0.63	0.65	0.66	0.70	0.75	0.80	0.88	0.98	1.12	1.68					Outlet	48
	5V	m³ / s	0.100	0.094	0.088	0.081	0.072	0.052	0.037	0.026	0.018	0.011	0.005		29.8		0.35	0.044	Inlet	42
		W / (L/s)	0.31	0.33	0.35	0.38	0.43	0.61	0.91	1.37	2.12	3.56	7.40						Outlet	40
	2V	m³ / s	0.032	0.010											4.2		0.07	0.009	Inlet	25
		W / (L/s)	0.26	0.80															Outlet	*20
SSDR250H-1EC	10V	m³ / s	0.273	0.264	0.256	0.249	0.243	0.229	0.216	0.201	0.184	0.165	0.145	0.111	33.8	N51	1.89	0.236	Inlet	53
		W / (L/s)	0.71	0.72	0.73	0.75	0.76	0.80	0.86	0.93	1.03	1.18	1.38	1.89					Outlet	49
	8V	m³ / s	0.225	0.220	0.214	0.207	0.200	0.184	0.165	0.144	0.122	0.103	0.086	0.060	34.3		1.46	0.178	Inlet	51
		W / (L/s)	0.51	0.52	0.54	0.56	0.58	0.64	0.72	0.84	1.02	1.25	1.54	2.36					Outlet	45
	5V	m³ / s	0.141	0.129	0.116	0.102	0.087	0.054	0.032	0.019	0.009				28.5		0.93	0.050	Inlet	38
		W / (L/s)	0.25	0.27	0.31	0.35	0.42	0.72	1.30	2.35	4.86								Outlet	34
	2V	m³ / s	0.050	0.009											5.4		0.08	0.010	Inlet	*20
		W / (L/s)	0.18	0.98															Outlet	*20
SSDR250L-1EC	10V	m³ / s	0.282	0.278	0.274	0.269	0.265	0.255	0.245	0.234	0.223	0.211	0.197	0.166	39.5	N56	1.93	0.241	Inlet	57
		W / (L/s)	0.82	0.84	0.85	0.87	0.89	0.93	0.97	1.02	1.08	1.14	1.22	1.43					Outlet	54
	8V	m³ / s	0.250	0.243	0.236	0.229	0.222	0.208	0.194	0.181	0.167	0.153	0.138	0.108	40.6		1.45	0.174	Inlet	52
		W / (L/s)	0.63	0.64	0.65	0.67	0.68	0.72	0.77	0.83	0.91	1.00	1.13	1.51					Outlet	49
	5V	m³ / s	0.150	0.141	0.132	0.122	0.112	0.089	0.064	0.045	0.031	0.021	0.013		35.1		0.53	0.064	Inlet	42
		W / (L/s)	0.29	0.31	0.33	0.36	0.39	0.50	0.74	1.14	1.74	2.70	4.47						Outlet	39
	2V	m³ / s	0.054	0.021											7.6		0.09	0.011	Inlet	*20
		W / (L/s)	0.18	0.47															Outlet	*20
SSDR315-1EC	10V	m³ / s	0.550	0.541	0.532	0.522	0.511	0.488	0.462	0.432	0.397	0.354	0.302	0.147	38.3	N53	1.88	0.403	Inlet	53
		W / (L/s)	0.72	0.73	0.75	0.77	0.78	0.82	0.86	0.91	0.98	1.06	1.17	1.78					Outlet	53
	8V	m³ / s	0.425	0.409	0.393	0.375	0.357	0.317	0.269	0.211	0.134				33.6		1.05	0.218	Inlet	47
		W / (L/s)	0.50	0.52	0.54	0.56	0.59	0.65	0.73	0.85	1.13								Outlet	47
	5V	m³ / s	0.249	0.223	0.193	0.155	0.105								26.1		0.30	0.058	Inlet	35
		W / (L/s)	0.23	0.25	0.29	0.35	0.47												Outlet	34
	2V	m³ / s	0.081												4.1		0.10	0.014	Inlet	*20
		W / (L/s)	0.17																Outlet	*20
SSDR400-1EC	10V	m³ / s	0.880	0.872	0.864	0.856	0.847	0.829	0.810	0.788	0.765	0.739	0.710	0.638	42.9	N54	4.20	0.908	Inlet	59
		W / (L/s)	1.02	1.03	1.04	1.06	1.07	1.09	1.12	1.15	1.19	1.22	1.27	1.37					Outlet	59
	8V	m³ / s	0.691	0.673	0.656	0.637	0.619	0.579	0.538	0.493	0.444	0.391	0.330	0.168	36.1		2.32	0.486	Inlet	53
		W / (L/s)	0.70	0.72	0.73	0.75	0.77	0.82	0.87	0.93	1.01	1.10	1.23	1.91					Outlet	53
	5V	m³ / s	0.413	0.384	0.353	0.318	0.278	0.180							28.8		0.61	0.131	Inlet	40
		W / (L/s)	0.32	0.34	0.36	0.40	0.44	0.61											Outlet	41
	2V	m³ / s	0.136												2.8		0.20	0.047	Inlet	21
		W / (L/s)	0.34																Outlet	24

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC Amps @ 230V / 1Ph / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

A variable speed drive is integrated within the fan.

*At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities.

Singleflow SSDR

Performance, SFP & Electrical Data



SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage	Airflow	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	Input kW		
SSDR500-1EC	10V	m³ / s	1.334	1.313	1.291	1.269	1.246	1.196	1.143	1.083	1.017	0.941	0.851	0.595	51.2	N63	3.40	0.787	Inlet	51
		W / (L/s)	0.53	0.55	0.56	0.57	0.59	0.62	0.66	0.70	0.74	0.80	0.87	1.12					Outlet	55
	8V	m³ / s	1.054	1.022	0.989	0.955	0.919	0.841	0.755	0.656	0.539	0.391	0.169		42.7		2.24	0.474	Inlet	47
		W / (L/s)	0.42	0.43	0.45	0.47	0.50	0.55	0.60	0.68	0.78	0.96	1.56						Outlet	47
	5V	m³ / s	0.648	0.596	0.535	0.463	0.372	0.055							37.5		0.59	0.124	Inlet	34
		W / (L/s)	0.18	0.20	0.23	0.26	0.31	1.24											Outlet	38
	2V	m³ / s	0.231	0.036											3.6		0.23	0.051	Inlet	20
		W / (L/s)	0.19	1.29															Outlet	20

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC Amps @ 230V / 1Ph / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20μPa and is presented for comparative purposes only.

A variable speed drive is integrated within the fan.

*At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities.

Singleflow SSDR

Sound Data



SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Control Voltage		Sound Power Level dBW @ Octave Band Hz								Total dB	Silencer dBA Attenuation			
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz		JF1	JF2	JF3	JF4
SSDR200-1EC	10V	Inlet	85	82	80	72	65	63	58	58	88	-7	-11	-14	-17
		Outlet	62	66	68	67	64	64	62	62	74	-	-	-	-
	8V	Inlet	84	80	78	69	63	61	56	56	86	-7	-11	-14	-17
		Outlet	61	65	67	64	62	62	60	59	72	-	-	-	-
	5V	Inlet	74	71	67	59	51	51	48	40	76	-6	-10	-13	-16
		Outlet	49	55	60	57	50	53	54	44	64	-	-	-	-
	2V	Inlet	63	54	50	40	33	30	15	22	64	-5	-8	-11	-14
		Outlet	-	-	-	-	-	-	-	-	-	-	-	-	-
SSDR250H-1EC	10V	Inlet	87	81	80	69	64	57	56	57	89	-6	-10	-12	-14
		Outlet	63	70	71	66	64	62	59	56	75	-	-	-	-
	8V	Inlet	83	78	78	65	60	54	54	50	85	-6	-9	-11	-14
		Outlet	61	66	67	62	60	58	56	51	71	-	-	-	-
	5V	Inlet	74	70	62	53	48	43	45	37	76	-6	-8	-10	-13
		Outlet	51	59	52	51	48	46	48	43	61	-	-	-	-
	2V	Inlet	-	-	-	-	-	-	-	-	-	-	-	-	-
		Outlet	-	-	-	-	-	-	-	-	-	-	-	-	-
SSDR250L-1EC	10V	Inlet	86	82	84	74	68	64	61	62	89	-7	-11	-13	-16
		Outlet	69	71	74	72	67	67	63	61	79	-	-	-	-
	8V	Inlet	84	80	78	68	64	61	58	58	86	-7	-10	-12	-15
		Outlet	60	68	68	65	65	63	59	58	74	-	-	-	-
	5V	Inlet	75	72	67	58	53	50	49	45	77	-7	-10	-12	-14
		Outlet	52	59	60	57	53	51	49	45	65	-	-	-	-
	2V	Inlet	-	-	-	-	-	-	-	-	-	-	-	-	-
		Outlet	-	-	-	-	-	-	-	-	-	-	-	-	-
SSDR315-1EC	10V	Inlet	84	79	78	69	61	67	61	55	86	-8	-10	-12	-15
		Outlet	72	75	74	69	68	66	63	59	80	-	-	-	-
	8V	Inlet	80	75	69	62	54	62	55	48	82	-7	-9	-11	-14
		Outlet	68	72	67	63	62	60	56	51	75	-	-	-	-
	5V	Inlet	70	65	58	49	41	48	38	26	71	-6	-8	-10	-12
		Outlet	58	58	54	49	50	47	39	29	62	-	-	-	-
	2V	Inlet	-	-	-	-	-	-	-	-	-	-	-	-	-
		Outlet	-	-	-	-	-	-	-	-	-	-	-	-	-
SSDR400-1EC	10V	Inlet	91	86	84	75	70	67	65	61	93	-5	-8	-10	-13
		Outlet	79	81	79	75	74	73	68	65	86	-	-	-	-
	8V	Inlet	87	83	78	69	65	63	58	55	89	-5	-7	-9	-12
		Outlet	74	76	73	69	69	67	62	58	80	-	-	-	-
	5V	Inlet	76	72	62	55	51	49	45	36	78	-4	-6	-7	-10
		Outlet	63	66	60	56	58	52	46	38	69	-	-	-	-
	2V	Inlet	63	41	39	40	34	25	18	24	63	-5	-6	-8	-10
		Outlet	48	37	43	43	42	24	18	22	51	-	-	-	-
SSDR500-1EC	10V	Inlet	80	80	74	69	61	61	57	55	84	-	-	-	-
		Outlet	73	79	76	73	70	66	62	59	82	-	-	-	-
	8V	Inlet	80	75	69	62	54	62	55	48	82	-	-	-	-
		Outlet	68	72	67	63	62	60	56	51	75	-	-	-	-
	5V	Inlet	71	63	57	53	44	42	38	30	72	-	-	-	-
		Outlet	62	63	59	55	54	49	39	34	67	-	-	-	-
	2V	Inlet	-	-	-	-	-	-	-	-	-	-	-	-	-
		Outlet	44	51	38	39	36	26	15	21	52	-	-	-	-

Data provided at standard air density of 1.2 kg/m³.

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.

The Sound Power Level Spectra are in dB re-1pW.

Elta Fans Limited has a policy of continuous product development and improvement and therefore reserves the right to supply products which may differ from those illustrated and described in this publication. Confirmation of dimensions and data will be supplied on request.

Singleflow SSDR

Performance, SFP & Electrical Data



THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Control Voltage	Airflow	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	Input kW		
SSDR500-3EC	10V	m³ / s	1.717	1.701	1.685	1.669	1.652	1.618	1.582	1.544	1.504	1.461	1.416	1.314	54.1	N62	2.27	1.492	Inlet	57
		W / (L/s)	0.80	0.82	0.83	0.84	0.86	0.88	0.91	0.94	0.98	1.01	1.05	1.14					Outlet	61
	8V	m³ / s	1.320	1.296	1.271	1.246	1.219	1.163	1.101	1.034	0.960	0.876	0.779	0.528	46.6		1.34	0.803	Inlet	51
		W / (L/s)	0.59	0.60	0.62	0.63	0.65	0.68	0.72	0.76	0.81	0.88	0.95	1.23					Outlet	55
	5V	m³ / s	0.766	0.729	0.689	0.643	0.590	0.445	0.190						41.7		0.49	0.200	Inlet	40
		W / (L/s)	0.24	0.25	0.27	0.30	0.33	0.41	0.71										Outlet	42
	2V	m³ / s	0.258												12.1		0.17	0.024	Inlet	*20
		W / (L/s)	0.09																Outlet	23
SSDR560-3EC	10V	m³ / s	2.509	2.479	2.451	2.426	2.402	2.356	2.312	2.270	2.229	2.187	2.145	2.059	59.5	N65	3.88	2.603	Inlet	61
		W / (L/s)	0.92	0.94	0.96	0.98	1.00	1.03	1.06	1.09	1.12	1.15	1.18	1.24					Outlet	64
	8V	m³ / s	1.967	1.946	1.924	1.902	1.880	1.832	1.782	1.729	1.671	1.608	1.539	1.374	56.8		2.12	1.359	Inlet	55
		W / (L/s)	0.63	0.64	0.65	0.66	0.68	0.70	0.73	0.76	0.80	0.84	0.88	0.98					Outlet	58
	5V	m³ / s	1.160	1.125	1.087	1.046	1.000	0.888	0.721	0.280					50.7		0.69	0.326	Inlet	42
		W / (L/s)	0.26	0.27	0.29	0.30	0.32	0.37	0.44	0.85									Outlet	47
	2V	m³ / s	0.356	0.127											17.4		0.20	0.033	Inlet	23
		W / (L/s)	0.09	0.25															Outlet	31
SSDR630-3EC	10V	m³ / s	3.152	3.131	3.110	3.088	3.067	3.022	2.976	2.929	2.880	2.829	2.776	2.662	56.2	N61	5.32	3.50	Inlet	61
		W / (L/s)	1.03	1.04	1.05	1.07	1.08	1.10	1.13	1.16	1.19	1.22	1.25	1.31					Outlet	65
	8V	m³ / s	2.505	2.476	2.447	2.417	2.388	2.327	2.264	2.198	2.128	2.054	1.974	1.785	55.5		2.83	1.83	Inlet	56
		W / (L/s)	0.68	0.69	0.71	0.72	0.74	0.76	0.79	0.82	0.86	0.89	0.93	1.02					Outlet	59
	5V	m³ / s	1.472	1.431	1.387	1.338	1.285	1.153	0.958	0.525					49.8		0.88	0.44	Inlet	43
		W / (L/s)	0.28	0.29	0.31	0.32	0.34	0.38	0.45	0.67									Outlet	46
	2V	m³ / s	0.487	0.204											17.1		0.23	0.05	Inlet	27
		W / (L/s)	0.10	0.22															Outlet	34
SSDR710-3EC	10V	m³ / s	4.010	3.959	3.910	3.862	3.816	3.726	3.637	3.550	3.462	3.374	3.284	3.094	57.4	N62	5.33	3.638	Inlet	64
		W / (L/s)	0.78	0.80	0.82	0.84	0.86	0.90	0.93	0.97	1.00	1.04	1.07	1.15					Outlet	64
	8V	m³ / s	3.210	3.143	3.081	3.022	2.965	2.853	2.743	2.631	2.513	2.388	2.250	1.894	56.9		2.85	1.897	Inlet	58
		W / (L/s)	0.50	0.53	0.55	0.57	0.59	0.63	0.66	0.70	0.74	0.78	0.83	0.95					Outlet	58
	5V	m³ / s	1.860	1.788	1.711	1.625	1.529	1.286	0.887						51.7		0.89	0.448	Inlet	46
		W / (L/s)	0.21	0.23	0.25	0.27	0.29	0.34	0.44										Outlet	46
	2V	m³ / s	0.623	0.147											17.2		0.25	0.055	Inlet	30
		W / (L/s)	0.08	0.27															Outlet	34

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category C. FLC Amps @ 230V / 1Ph / 50Hz.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.

*At 2V the average spherical free-field sound pressure levels cannot be accurately measured above the background level in our conventional laboratory facilities.

Singleflow SSDR

Sound Data



THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Control Voltage		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SSDR500-3EC	10V	Inlet	85	83	80	76	68	68	64	61	88
		Outlet	77	81	81	78	77	72	68	65	86
	8V	Inlet	80	81	74	70	61	61	57	57	84
		Outlet	73	78	76	73	71	66	62	59	82
	5V	Inlet	73	67	62	56	47	56	46	37	74
		Outlet	66	66	63	59	57	55	46	39	71
	2V	Inlet	-	-	-	-	-	-	-	-	-
		Outlet	41	46	42	39	41	32	19	16	50
SSDR560-3EC	10V	Inlet	87	87	85	79	72	71	68	63	92
		Outlet	81	85	85	82	79	75	73	70	90
	8V	Inlet	83	84	79	72	67	64	62	57	87
		Outlet	77	81	79	76	74	69	67	64	85
	5V	Inlet	76	70	67	59	53	53	46	39	77
		Outlet	67	67	67	63	65	57	51	44	73
	2V	Inlet	57	45	47	40	37	32	21	19	58
		Outlet	57	61	47	48	49	36	28	11	63
SSDR630-3EC	10V	Inlet	90	89	83	78	74	73	70	67	93
		Outlet	83	89	85	82	80	76	73	71	92
	8V	Inlet	85	86	78	72	70	67	64	62	89
		Outlet	78	84	80	76	76	70	67	64	87
	5V	Inlet	78	71	65	59	55	55	51	45	79
		Outlet	71	68	66	64	62	57	53	46	74
	2V	Inlet	58	48	43	42	46	35	25	24	59
		Outlet	52	46	44	53	52	37	27	26	58
SSDR710-3EC	10V	Inlet	88	93	83	77	80	74	71	71	95
		Outlet	81	94	83	81	79	75	72	71	95
	8V	Inlet	85	88	78	71	71	69	68	65	90
		Outlet	79	85	78	75	72	69	66	64	87
	5V	Inlet	83	70	65	58	62	58	56	46	83
		Outlet	73	68	65	65	63	57	52	45	75
	2V	Inlet	58	50	45	45	49	35	23	26	59
		Outlet	47	52	46	54	51	34	23	11	58

Data provided at standard air density of 1.2 kg/m³.

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.

The Sound Power Level Spectra are in dB re-1pW.

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Singleflow SDDR

Accessories & Wiring Data



For more information on Accessories & Wiring Diagrams, please see individual product downloads,
or visit eltaselect.com/information-centre

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Electronic Controller	Flexible Connections (each)	Clamps (each)	Silencer 300mm Long	Silencer 600mm Long	Silencer 900mm Long	Silencer 1200mm Long	Wiring Diagram No.no
SSDR200-1EC	149-POT-10	018-0200-FLEX	018-200-CLAMP	068-0200-JF1	068-0200-JF2	068-0200-JF3	068-0200-JF4	152-00036
SSDR250H-1EC	149-POT-10	018-0250-FLEX	018-250-CLAMP	068-0250-JF1	068-0250-JF2	068-0250-JF3	068-0250-JF4	152-00036
SSDR250L-1EC	149-POT-10	018-0250-FLEX	018-250-CLAMP	068-0250-JF1	068-0250-JF2	068-0250-JF3	068-0250-JF4	152-00036
SSDR315-1EC	149-POT-10	018-0315-FLEX	018-315-CLAMP	068-0315-JF1	068-0315-JF2	068-0315-JF3	068-0315-JF4	152-00044
SSDR400-1EC	149-POT-10	018-0400-FLEX	018-400-CLAMP	068-0400-JF1	068-0400-JF2	068-0400-JF3	068-0400-JF4	152-MOEA03K1
SSDR500-1EC	149-POT-10	018-0500-FLEX	018-500-CLAMP	Please enquire.				152-MOEA03K1

THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Electronic Controller	Flexible Connections (each)	Clamps (each)	Silencer 300mm Long	Silencer 600mm Long	Silencer 900mm Long	Silencer 1200mm Long	Wiring Diagram No.no
SSDR500-3EC	149-POT-10	018-0500-FLEX	018-500-CLAMP	Please enquire.				152-MOEA03K3
SSDR560-3EC	149-POT-10	018-0560-FLEX	018-560-CLAMP					152-MOEA03K3
SSDR630-3EC	149-POT-10	018-0630-FLEX	018-630-CLAMP					152-MOEA03K3
SSDR710-3EC	149-POT-10	018-0710-FLEX	018-710-CLAMP					152-MOEA03K3

Optimum Energy Efficiency Point

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Volume m³/s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSDR200-1EC	0.106	423	0.128	3440	40.1	N59
SSDR250H-1EC	0.168	343	0.194	2475	33.8	N51
SSDR250L-1EC	0.164	505	0.237	3395	39.5	N56
SSDR315-1EC	0.294	407	0.350	2014	38.3	N53
SSDR400-1EC	0.498	630	0.801	2199	42.9	N54
SSDR500-1EC	0.767	439	0.722	1413	51.2	N63

A variable speed drive is integrated within the fan.

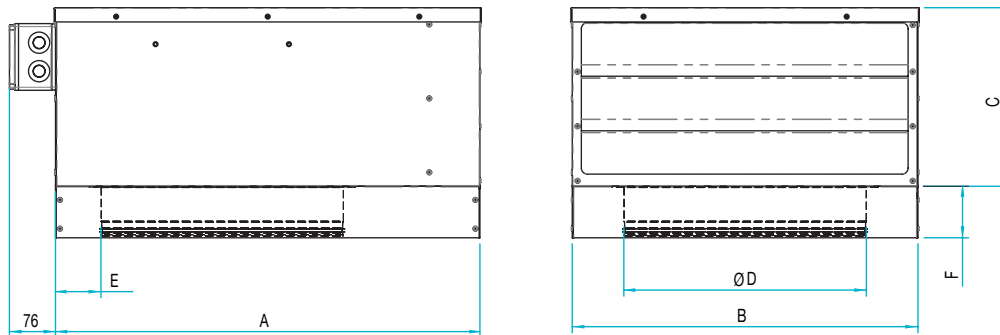
THREE Phase - 380V to 480V / 50Hz or 60Hz

Product Code	Volume m³/s	Pressure Pa	Input kW	Speed r/min	Efficiency %	FMEG
SSDR500-3EC	1.003	716	1.430	1799	54.1	N62
SSDR560-3EC	1.530	926	2.525	1808	59.5	N65
SSDR630-3EC	1.875	953	3.342	1630	56.2	N61
SSDR710-3EC	2.243	817	3.355	1343	57.4	N62

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Singleflow SSDR

Dimensional Data



Product Code	A	B	C	Ø D	E	F	Weight kg
SSDR200	509	350	205	200	75	85	14
SSDR250	584	396	205	250	75	85	17
SSDR315	635	485	295	315	85	85	26
SSDR400	700	570	295	400	75	85	36
SSDR500	880	750	385	500	91	85	54
SSDR560	930	898	480	560	111	85	82
SSDR630	1030	998	480	630	126	85	98
SSDR710-AC	1180	1168	570	710	162	85	149
SSDR710-EC	1180	1168	570	710	162	85	128

All dimensions are shown in mm.



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