



Model	A	B	C	D	E	Wt. kg.
STBD 1/L	450	900	1000	600	300	120
STBD 2/L	550	1100	1200	800	350	155
STBD 3/L	650	1200	1500	1000	350	190
STBD 4/L	750	1550	1500	1100	500	250

N.B. Units illustrated with optional mounting brackets fitted.

## SPECIFICATION

### General

The Twinflow duct mounted, belt drive fan STBD shall be from the Select range of Elta Fans Ltd. The unit casing shall be manufactured from 0.9 or 1.2mm thick hot dipped galvanised mild steel sheet suitably braced for rigidity. Non return shutters shall be fitted on the fan outlets to prevent recirculation of air between the fans and backdraughts when the unit is not in operation. The unit shall be fitted with airflow detection switches pre wired to the unit's terminal block for connection to a suitable control panel to facilitate auto change over.

Units can be supplied with or without acoustic lining.

Where acoustically lined units are required the lining shall be an open cell foam conforming to Class O of the U.K. Building Regulations. Access panels shall be provided for ease of servicing.

### Fans

Fans are to be belt driven double inlet double width forward curved centrifugal type housed in a purpose designed scroll with integral deep drawn inlet rings to facilitate maximum efficiency.

### Motors

Motors shall be pre wired to a terminal box mounted on the outside of the unit casing. The units are to be suitable for operating temperatures of up to +40°C. Operation at higher temperature is possible when Class F motors are incorporated. Contact Elta Fans for these requirements.

### Quality Management

All units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2000. EEC directives shall be met.

STBD units are to be tested to ISO 5801:1997 (airside performance) and BS 848 pt 2:1985 (sound performance).

## ACCESSORIES

- ◆ Mounting Brackets
- ◆ Flexible Connectors
- ◆ Auto-Changeover Panels
- ◆ Isolators

For performance data see pages 79 and 80.

# ROOF & DUCT MOUNTED SINGLE & TWIN FANS BELT DRIVE - SSBD/L, STBD/L, SSBR/L, STBR/L

# singleflow & twinflow



## SIZE 1 - PERFORMANCE DETAILS

Airflow m³/s	External Resistance Pa.						
	50	100	150	200	250	300	
0.2	800	1100	1300	1500	1675	1820	rpm
	0.25	0.25	0.25	0.25	0.25	0.25	kW
	41	47	52	55	58	63	dBA
0.3	900	1150	1370	1530	1700	1850	rpm
	0.25	0.25	0.25	0.25	0.37	0.37	kW
	43	49	53	56	60	63	dBA
0.4	1120	1280	1400	1590	1730	1890	rpm
	0.25	0.25	0.37	0.37	0.37	0.55	kW
	49	52	53	56	60	63	dBA
0.5	1300	1440	1570	1710	1825	2050	rpm
	0.37	0.37	0.55	0.55	0.55	0.75	kW
	52	55	56	59	63	68	dBA
0.6	1500	1650	1760	1900	2040	-	rpm
	0.55	0.55	0.75	0.75	0.75	-	kW
	55	58	60	63	68	-	dBA
0.7	1720	1830	1950	2070	-	-	rpm
	0.75	0.75	0.75	0.75	-	-	kW
	60	63	65	68	-	-	dBA

## SIZE 2 - PERFORMANCE DETAILS

Airflow m³/s	External Resistance Pa.								
	50	100	150	200	250	300	400	450	
0.2	650	750	870	1020	1150	1240	1450	1560	rpm
	0.25	0.25	0.25	0.25	0.25	0.37	0.37	0.55	kW
	48	50	54	58	61	63	66	69	dBA
0.4	660	770	900	1050	1170	1265	1460	1580	rpm
	0.25	0.25	0.25	0.37	0.37	0.55	0.55	0.55	kW
	48	50	57	58	61	63	66	69	dBA
0.6	700	820	940	1070	1190	1290	1490	1600	rpm
	0.25	0.25	0.37	0.37	0.55	0.55	0.75	0.75	kW
	48	54	57	58	61	63	66	69	dBA
0.8	850	950	1050	1140	1230	1300	1520	-	rpm
	0.37	0.55	0.55	0.75	0.75	0.75	1.10	-	kW
	54	57	58	61	63	63	69	-	dBA
1.0	1010	1100	1180	1250	1320	1400	1580	-	rpm
	0.75	0.75	0.75	1.10	1.10	1.10	1.50	-	kW
	58	61	61	63	65	65	69	-	dBA
1.2	1200	1250	1320	1400	1460	1550	-	-	rpm
	0.75	1.10	1.50	1.50	1.50	1.50	-	-	kW
	61	63	65	65	66	69	-	-	dBA

Sound levels are average spherical free field values (for comparative use only). Value at 50% peak pressure.

## SIZE 1 - ELECTRICAL DATA - 400V / 3PH / 50HZ

	6 Pole Motor Size kW (for rpm of 800 and below)		* Please note that on initial start up both fans will momentarily start.
	0.25		
FLC (A)	1.1		
Start (A)	3.19 x 2*		

  

	4 Pole Motor Size kW (for rpm above 800)			
	0.25	0.37	0.55	0.75
FLC (A)	0.78	1.06	1.6	2.1
Start (A)	2.81 x 2*	4.03 x 2*	6.56 x 2*	9.03 x 2*

## SIZE 2 - ELECTRICAL DATA - 400V / 3PH / 50HZ

	6 Pole Motor Size kW (for rpm of 800 and below)			* Please note that on initial start up both fans will momentarily start.
	0.25			
FLC (A)	1.1			
Start (A)	3.19 x 2*			

  

	4 Pole Motor Size kW (for rpm of above 800)					
	0.25	0.37	0.55	0.75	1.1	1.5
FLC (A)	0.78	1.06	1.6	2.1	2.59	3.4
Start (A)	2.81 x 2*	4.03 x 2*	6.56 x 2*	9.03 x 2*	13.73 x 2*	18.7 x 2*

For sizes 3 and 4 see page 80.

NB. Motors wound for 220-240V/1PH/60Hz supply are available upon request - Contact Elta Fans for these requirements.

# ROOF & DUCT MOUNTED SINGLE & TWIN FANS BELT DRIVE - SSBD/L, STBD/L, SSBR/L, STBR/L

# singleflow & twinflow



## SIZE 3 - PERFORMANCE DETAILS

Airflow m³/s	External Resistance Pa.								
	100	150	200	300	400	500	600	700	
0.5	650	710	810	975	1105	1250	1350	1480	rpm
	0.37	0.37	0.37	0.55	0.75	0.75	1.10	1.10	kW
	53	58	60	63	66	68	71	73	dBA
0.75	710	760	800	985	1120	1260	1365	1500	rpm
	0.37	0.55	0.55	0.75	0.75	1.10	1.10	1.50	kW
	58	58	60	63	66	68	71	73	dBA
1.0	750	820	895	1000	1130	1275	1380	1510	rpm
	0.55	0.75	0.75	1.10	1.10	1.50	1.50	2.20	kW
	58	60	60	63	66	68	71	75	dBA
1.25	880	950	1000	1075	1175	1300	1400	1540	rpm
	1.10	1.10	1.10	1.50	1.50	2.20	2.20	3.00	kW
	60	63	63	65	66	68	71	75	dBA
1.5	990	1060	1100	1190	1290	1350	1450	1680	rpm
	1.50	1.50	2.20	2.20	2.20	3.00	3.00	4.00	kW
	63	65	65	66	68	71	73	75	dBA
1.75	1110	1160	1220	1300	1410	1500	1650	-	rpm
	2.20	2.20	3.00	3.00	4.00	4.00	4.00	-	kW
	66	66	68	68	73	73	77	-	dBA
2.0	1250	1300	1330	1410	1490	-	-	-	rpm
	3.00	4.00	4.00	4.00	4.00	-	-	-	kW
	68	68	71	73	73	-	-	-	dBA
2.25	1400	-	-	-	-	-	-	-	rpm
	4.00	-	-	-	-	-	-	-	kW
	71	-	-	-	-	-	-	-	dBA

## SIZE 4 - PERFORMANCE DETAILS

Airflow m³/s	External Resistance Pa.								
	100	150	200	250	300	400	500	600	
0.75	500	550	620	700	770	900	1000	1100	rpm
	0.37	0.37	0.55	0.55	0.75	1.10	1.10	1.50	kW
	51	55	58	58	62	63	68	70	dBA
1.0	520	575	630	720	790	920	1010	1120	rpm
	0.55	0.55	0.75	0.75	1.10	1.10	1.50	2.20	kW
	55	55	58	62	62	68	70	72	dBA
1.25	550	600	670	735	800	930	1035	1150	rpm
	0.75	0.75	0.75	1.10	1.10	1.50	2.20	2.20	kW
	55	58	58	62	63	68	70	72	dBA
1.5	610	650	715	780	830	940	1055	1170	rpm
	0.75	1.10	1.10	1.50	1.50	2.20	2.20	3.00	kW
	58	58	62	62	63	68	70	72	dBA
1.75	690	730	790	830	880	980	1100	-	rpm
	1.10	1.50	1.50	1.50	2.20	2.20	3.00	-	kW
	58	62	62	63	63	68	72	-	dBA
2.0	750	800	840	890	930	1000	1150	-	rpm
	1.50	2.20	2.20	2.20	3.00	3.00	4.00	-	kW
	62	63	63	63	68	68	72	-	dBA
2.25	800	850	900	955	995	1050	1200	-	rpm
	3.00	3.00	3.00	3.00	3.00	4.00	4.00	-	kW
	63	63	68	68	68	70	72	-	dBA
2.5	880	920	960	1010	1075	-	-	-	rpm
	3.00	4.00	4.00	4.00	4.00	-	-	-	kW
	63	68	68	70	70	-	-	-	dBA

Sound levels are average spherical free field values (for comparative use only). Value at 50% peak pressure.

## SIZE 3 - ELECTRICAL DATA - 400V / 3PH / 50HZ

	6 Pole Motor Size kW (for rpm of 800 and below)		* Please note that on initial start up both fans will momentarily start.
	0.37	0.55	
FLC (A)	1.2	1.7	
Start (A)	4.08 x 2*	6.29 x 2*	

  

	4 Pole Motor Size kW (for rpm above 800)							
	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0
FLC (A)	1.06	1.6	2.1	2.59	3.4	5.15	6.7	8.95
Start (A)	4.03 x 2*	5.56 x 2*	9.03 x 2*	13.73 x 2*	18.7 x 2*	30.9 x 2*	41.54 x 2*	59.07 x 2*

## SIZE 4 - ELECTRICAL DATA - 400V / 3PH / 50HZ

	6 Pole Motor Size kW (for rpm of 800 and below)						
	0.37	0.55	0.75	1.1	1.5	2.2	3.0
FLC (A)	1.2	1.7	2.3	3.2	3.9	5.4	6.8
Start (A)	4.08 x 2*	6.29 x 2*	10.35 x 2*	14.72 x 2*	17.94 x 2*	28.62 x 2*	37.4 x 2*

  

	4 Pole Motor Size kW (for rpm above 800)					* Please note that on initial start up both fans will momentarily start.
	1.1	1.5	2.2	3.0	4.0	
FLC (A)	2.59	3.4	5.15	6.7	8.95	
Start (A)	13.73 x 2*	18.7 x 2*	30.9 x 2*	41.54 x 2*	59.07 x 2*	

NB. Motors wound for 220-240V/1PH/60Hz supply are available upon request - Contact Elta Fans for these requirements.