

TEX TWIN FANS

DIRECT DRIVE, BELT DRIVE, PLANT ROOM AND WEATHERPROOF

DESIGN FEATURES:

- Wide duty range – 0.05m³/sec to 2.2m³/sec.
- All units tested in accordance with BS 848.
- Prewired terminal box fitted adjacent to inlet spigot on plantroom units.
- Easy maintenance – each fan on slide out plate.



TEX-P



TEX-W

- Optional single or double skinned case.
- Bolt-on silencers available from stock.
- Range of autochangeover panels.
- Easy duct connection using proprietary flange systems.



ISO 9001
1994
Certificate no. Q5575

VES
Andover

VES Andover Ltd.
Crown Way, Walworth Industrial Estate
Andover Hampshire England SP10 5LU
Tel: (01264) 366325 Fax: (01264) 333115

DIRECT DRIVEN UNITS

HOW TO SELECT THE UNIT YOU REQUIRE

Direct Drive

There are three TEX direct drive case sizes 1, 2 and 3.

Select the duty point you require from the fan curves.

Eg: 0.4m³/sec @ 100 Pa

TEX 2 unit fan curve 4.

Plantroom P or Weatherproof W?

Specify:

Model TEX 24-P.

Fan 6 is available in TEX 2 and 3 size units.

Belt Drive

There are two belt drive case sizes 4 and 5.

Eg: 1.4m³/sec @ 200 Pa.

Specify: TEX 410-P, fan speed 1250 RPM.

All Units

Double skinned case required?

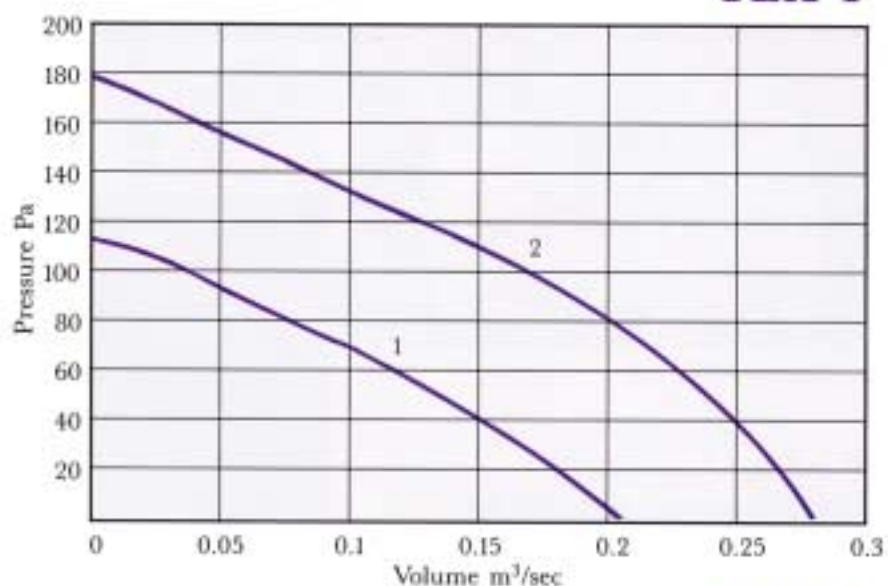
Add the suffix DS to unit selected.

Eg: TEX 24-P/DS

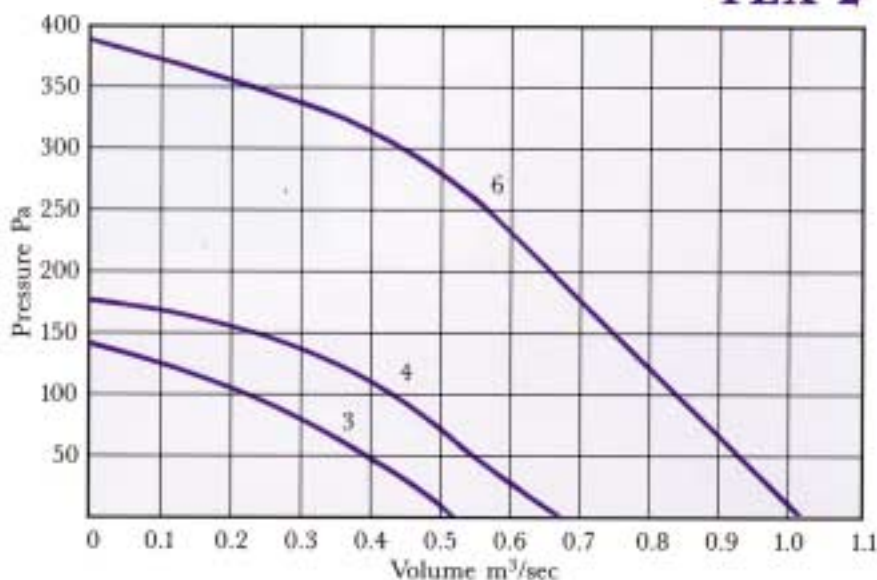
For choice of inlet and outlet configurations refer to pages 6 and 7.

TEX Direct Drive Units
Electrical details page 10.

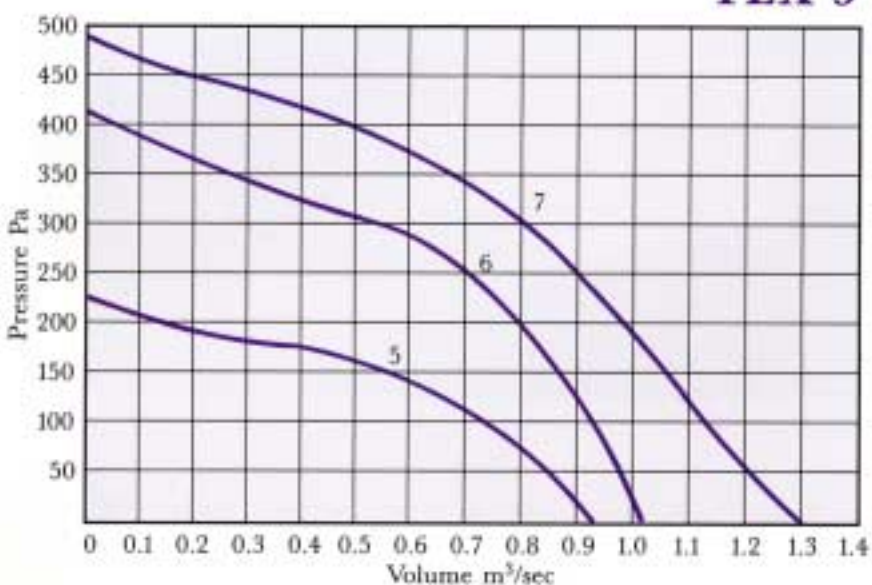
TEX 1



TEX 2



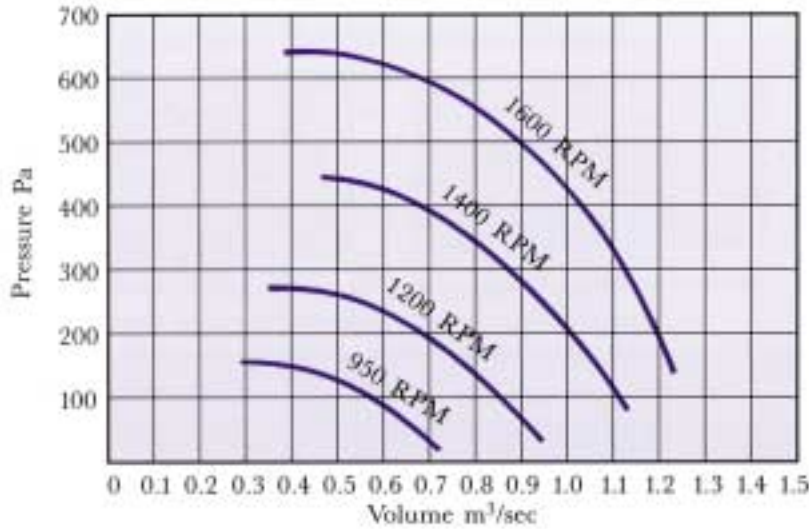
TEX 3



SELECTION TABLES

BELT DRIVE UNITS

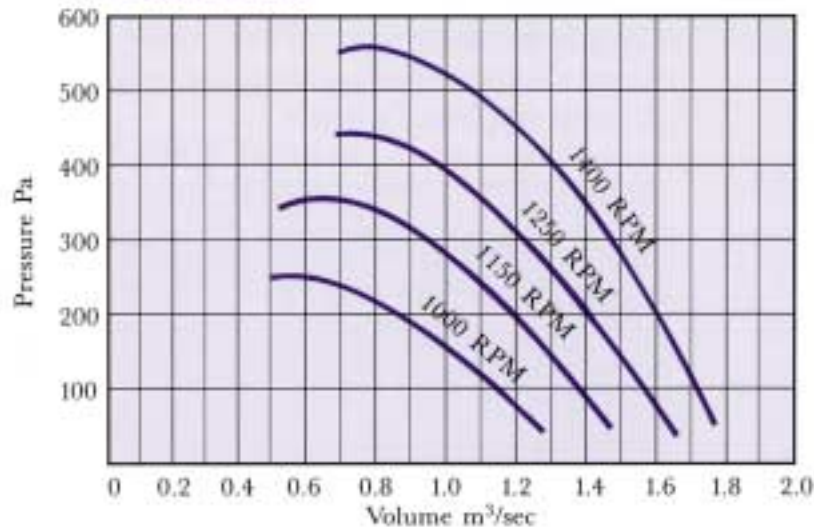
TEX 409



TEX 409

Fan RPM	Motor Size KW	FLC 415V	SC 415V
950	1.1	2.75	12.37
1200	1.5	2.93	14.65
1400	1.5	3.42	17.10
1600	2.2	4.50	22.50

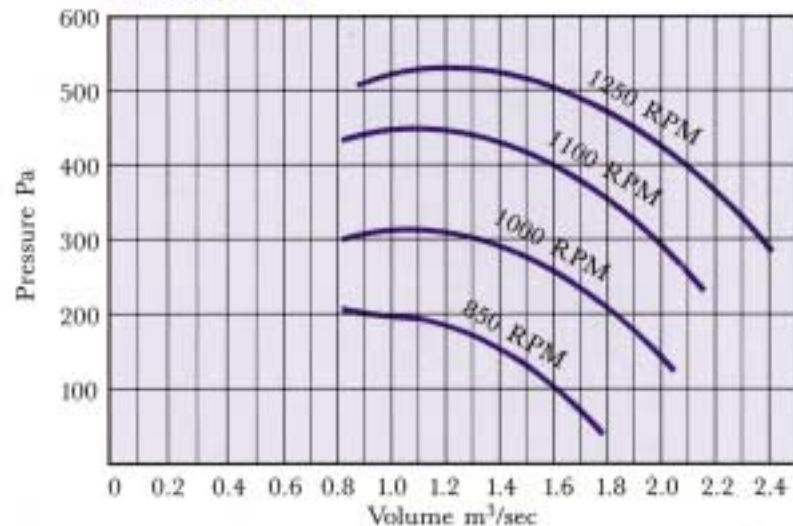
TEX 410



TEX 410

Fan RPM	Motor Size KW	FLC 415V	SC 415V
1000	1.5	3.05	15.25
1150	2.2	3.46	17.30
1250	2.2	4.00	20.00
1400	3.0	5.10	28.05

TEX 512



TEX 512

Fan RPM	Motor Size KW	FLC 415V	SC 415V
850	2.2	5.65	28.25
1000	2.2	5.75	28.75
1100	2.2	6.50	32.50
1250	3.0	7.50	41.25

SELECTION TABLES

NB. 240 volt 1 phase motors are available up to 2.2 Kw – consult sales office.

SPECIFICATION

■ SPECIFICATION

Quality Standards: VES Andover are a company of assessed capability by BSI to the requirements of ISO 9001 1994 formerly BS 5750 Part 1 1987. All units tested in accordance with BS 848.

■ FANS

Each unit contains two no. forward curved multi-vane double inlet double width centrifugal fans. TEX 1, 2 and 3 contain fans direct driven by 240 volt 1 phase hub mounted motors. These motors are fitted with high temperature automatic cut-out protection. TEX 4 and 5 contain fans belt driven by a squirrel cage induction motor, normally 415 volt, 3 phase, 50Hz, totally enclosed, fan cooled, with top mounted terminal box. Motors are Class F rating and insulated to I.P.55. The minimum two belt drive is pre aligned and tensioned at VES works. The TEX 4 & 5 twin fan and motor assembly is mounted on a common rolled steel base frame, fully isolated from the TEX case with A.V. mounts and flexible connections to the fan outlets, so additional external fittings are not required.

■ AUTOCHANGEOVER

Both fans in each TEX unit are fitted with a micro switch which is operated by the back draught flap on the fan outlet. These are prewired to a terminal box which on the plantroom units is fitted adjacent to the inlet spigot, and under the lid in the weatherproof units. The wiring loom has a snap connection between fans, airflow switches and terminal box to facilitate easy removal of fan from unit. The terminal box houses eight numbered connections which are wired on site by others back to the autochangeover panel.

■ CASE – PLANTROOM TYPE

The TEX unit plantroom cases are rigidly constructed using zinc coated mild steel sheet. Single skinned as standard, the units are available double skinned with an infill of rock wool slab. The units are externally paint finished in light grey to BS00A05.

The fans in the TEX 1, 2 and 3 units are easily removed from the case. The side access panels are easily removable, with the fans mounted on individual plates in channels to enable them to be side withdrawn. Sufficient room should be allowed adjacent to the unit for maintenance access. There are access panels both sides of the unit.

The TEX 1, 2 and 3 units can be supplied with matching flanges complete with flexible connections, anti-vibration mounts and mounting feet. The mounting feet are designed suitable for either use with drop rods on for screwing down to a floor or truss. These units are suitable for fitting directly to 25mm proprietary flange duct connections.

■ CASE – WEATHERPROOF TYPE

All weatherproof units are manufactured in galvanised mild steel sheet and externally powder coat finished in light grey to BS00A05.

Access to all weatherproof units is via a removable top lid.

■ TEX SOUND LEVELS

In-Duct Sound Spectra, dB ref 10⁻¹²w PWL

Unit Size	Fan Speed	SPL *dBA	Centre Frequency – Hz							
			63	125	250	500	1k	2k	4k	8k
11	900	42	79	68	63	58	55	53	52	44
12	1500	46	80	70	68	59.5	58	58	56	47
23	920	38	78.5	68	59	54	51	49.5	48	40
24	920	53	66	71	74	68	66	65	61	41
26	1380	64	79	78	80.5	73.5	73	78	76	68
35	920	54	72	72	70	69	66.5	66	63.5	55.5
36	1380	64	79	78	80.5	73.5	73	78	76	68
37	1380	60	81	74	76.5	72	73	72.5	70	63
409	950	52	77	75	70	65	63	63	59	48
409	1200	58	83	81	76	71	71	69	65	54
409	1400	63	88	86	81	76	76	74	70	59
409	1600	66	91	89	84	79	79	77	73	62
410	1000	59	83	80	79	73	73	65	61	49
410	1150	63	87	84	83	79	77	69	65	53
410	1250	66	90	87	86	82	80	72	68	56
410	1400	68	92	89	88	84	82	74	70	58
512	850	63	87	83	80	79	75	70	66	55
512	1000	65	89	85	82	81	77	72	68	57
512	1100	67	91	87	84	83	79	74	70	59
512	1250	69	93	89	86	85	81	76	72	61

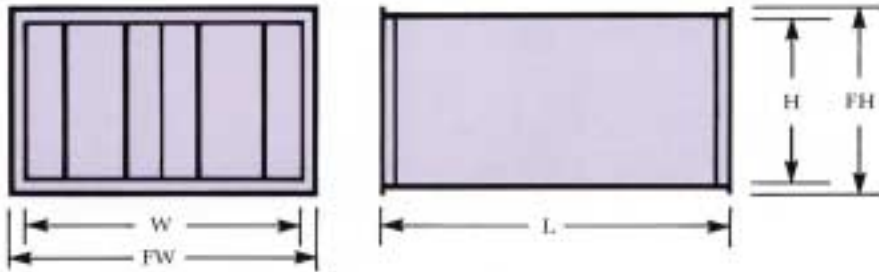
*At 3 metres from outlet, free field.

TEX SOUND LEVELS

SILENCERS

SILENCERS

Designed to fit directly onto the inlet of TEX units.



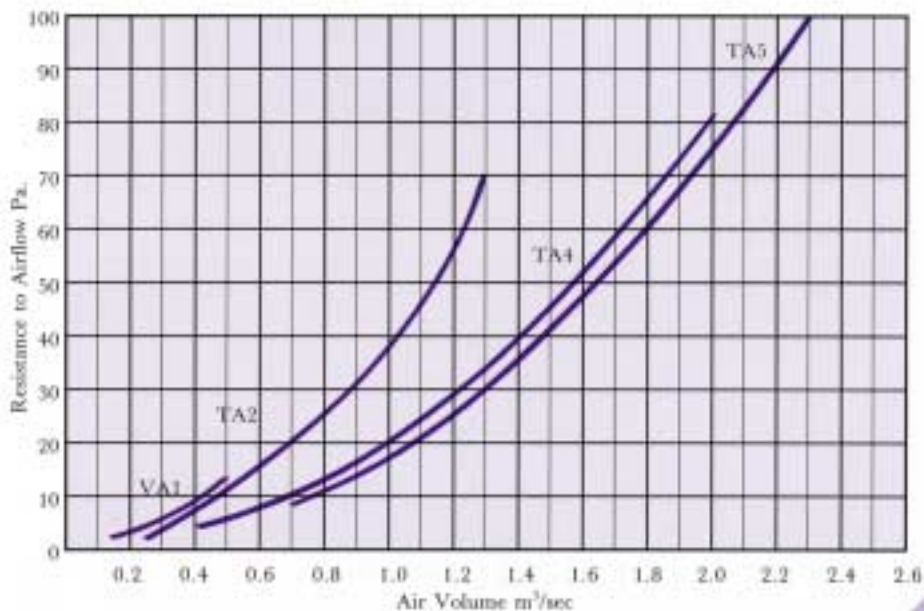
TEX UNIT	SILENCER MODEL	DIMENSIONS mm					WEIGHT KG
		W	H	L	FW	FH	
1	VA1	550	275	1000	600	325	23
2	TA2	700	430	1000	750	480	37
3	TA2	700	430	1000	750	480	37
4	TA4	800	500	1200	850	550	53
5	TA5	1000	500	1200	1050	550	66

ATTENUATION

Insertion Loss, dB, mid frequency Octave Band.

SILENCER MODEL	CENTRE FREQUENCY - Hz							
	63	125	250	500	1k	2k	4k	8k
VA1	4	8	14	28	36	36	28	22
TA2	4	7	13	25	32	32	23	18
TA4	4	8	14	28	36	36	28	22
TA5	4	7	13	25	32	32	23	18

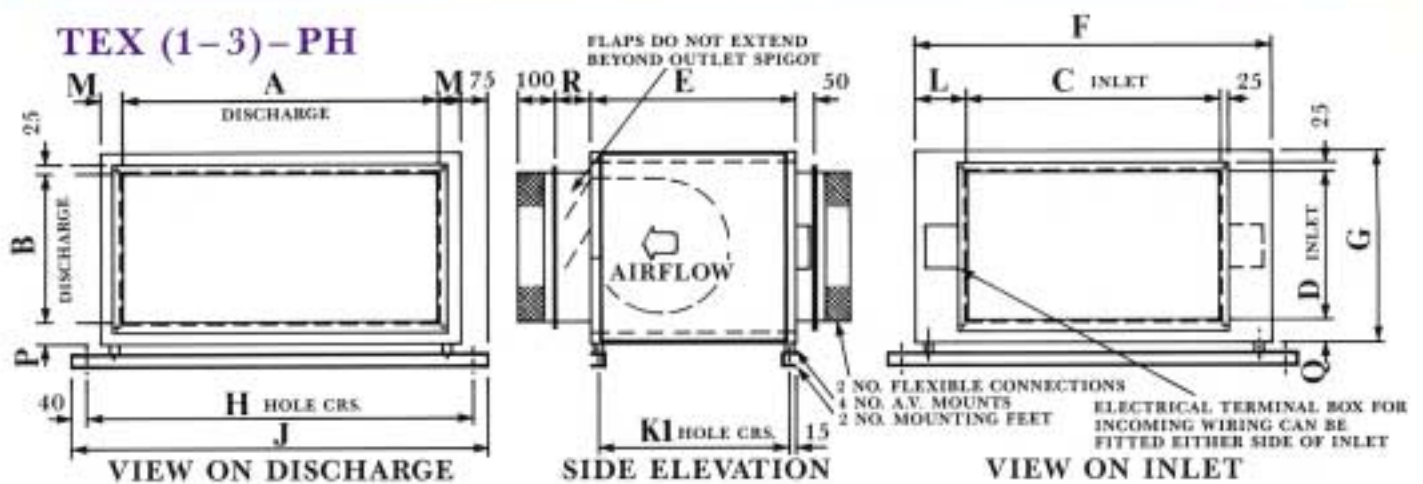
SILENCER AIR PRESSURE LOSS



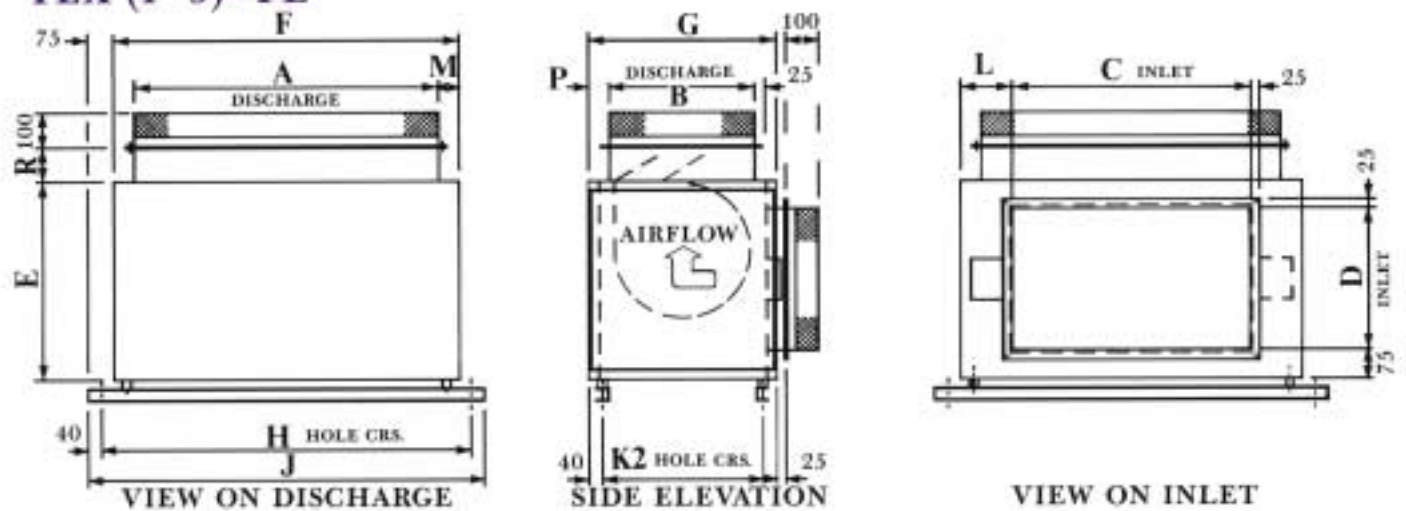
ATTENUATION

PLANTROOM UNITS – DIRECT DRIVE

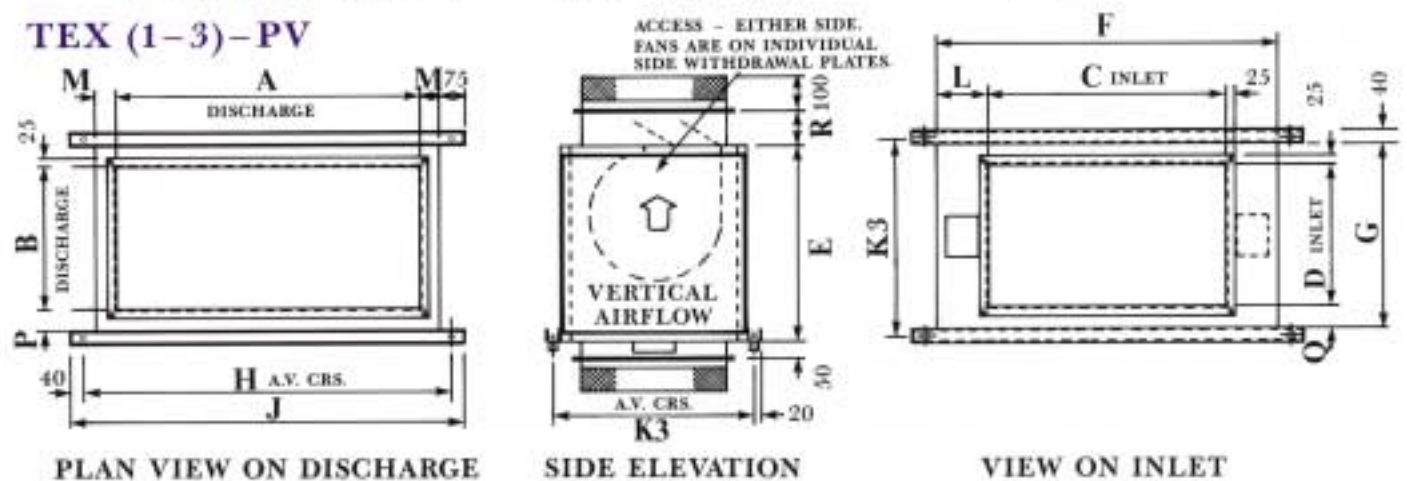
TEX (1-3)-PH



TEX (1-3)-PL



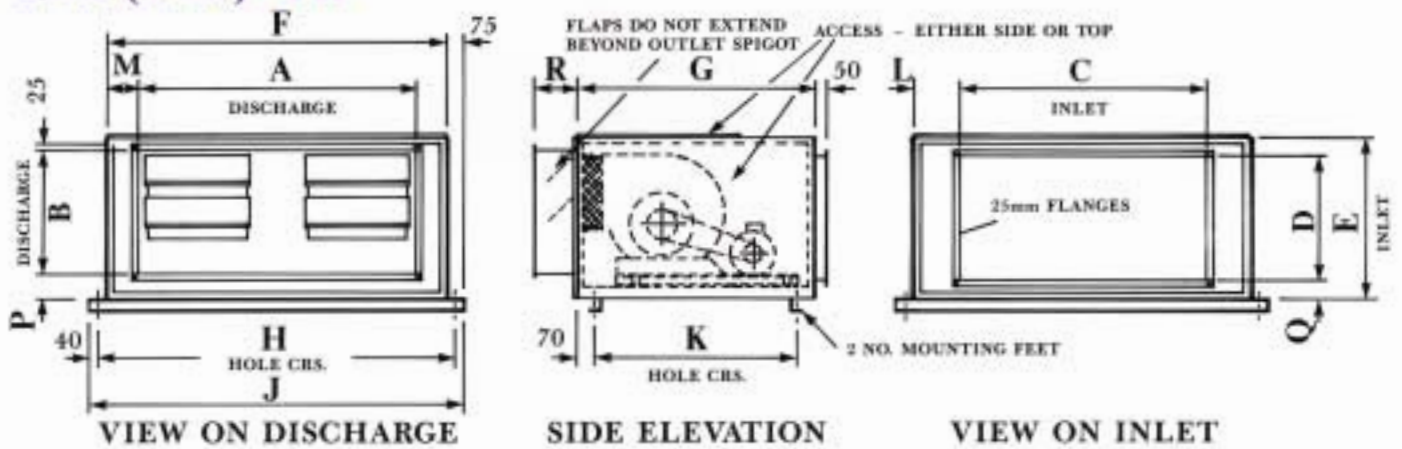
TEX (1-3)-PV



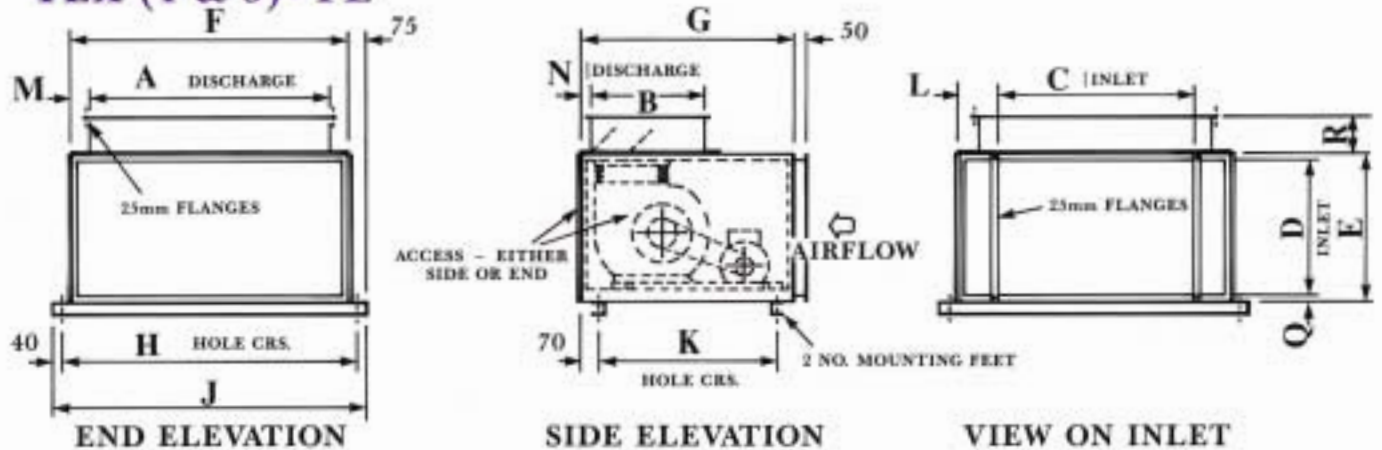
TEX	A	B	C	D	E	F	G	H	J	K1	K2	K3	L	M	P	Q	R	WEIGHT KG SINGLE SKIN	WEIGHT KG DOUBLE SKIN
11-PH/PL/PV	750	275	550	275	425	850	325	920	1000	395	295	365	150	50	25	25	50	30	42
12-PH/PL/PV	750	275	530	275	425	850	325	920	1000	395	295	365	150	50	25	25	50	30	42
23-PH/PL/PV	850	430	700	430	580	950	480	1020	1100	550	450	520	125	50	25	25	100	60	84
24-PH/PL/PV	850	430	700	430	580	950	480	1020	1100	550	450	520	125	50	25	25	100	60	84
26-PH/PL/PV	850	430	700	430	580	950	480	1020	1100	550	450	520	125	50	25	25	100	76	100
35-PH/PL/PV	880	420	700	430	580	1000	540	1070	1150	550	510	580	150	60	60	35	100	70	98
36-PH/PL/PV	880	420	700	430	580	1000	540	1070	1150	550	510	580	150	60	60	35	100	90	126
37-PH/PL/PV	880	420	700	430	580	1000	540	1070	1150	550	510	580	150	60	60	35	100	90	126

PLANTROOM UNITS – BELT DRIVE

TEX (4 &5) – PH



TEX (4 & 5) – PL

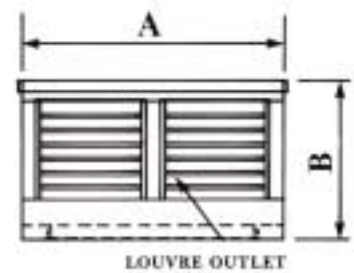
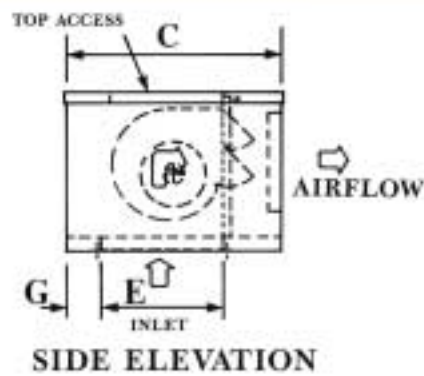
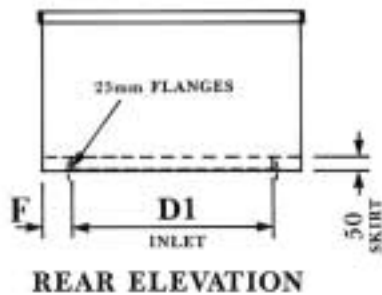


TEX	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	WEIGHTS KG SINGLE SKIN	WEIGHTS KG DOUBLE SKIN
4-PH/PL	95	450	800	500	550	1100	860	1170	1250	720	150	75	40	60	25	150	184	232
5-PH/PL	1100	500	1000	500	650	1350	950	1420	1500	810	175	125	50	100	75	175	234	301

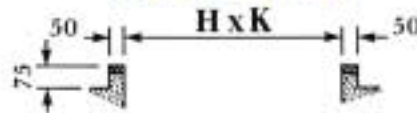
DIMENSIONS

WEATHERPROOF UNITS – DIRECT DRIVE

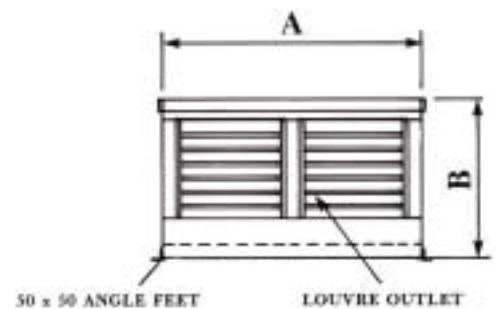
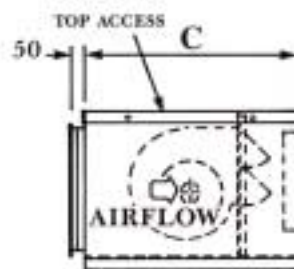
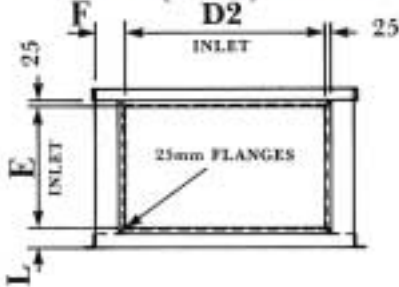
TEX (1-3)-WL



CURB DETAIL



TEX (1-3)-WH

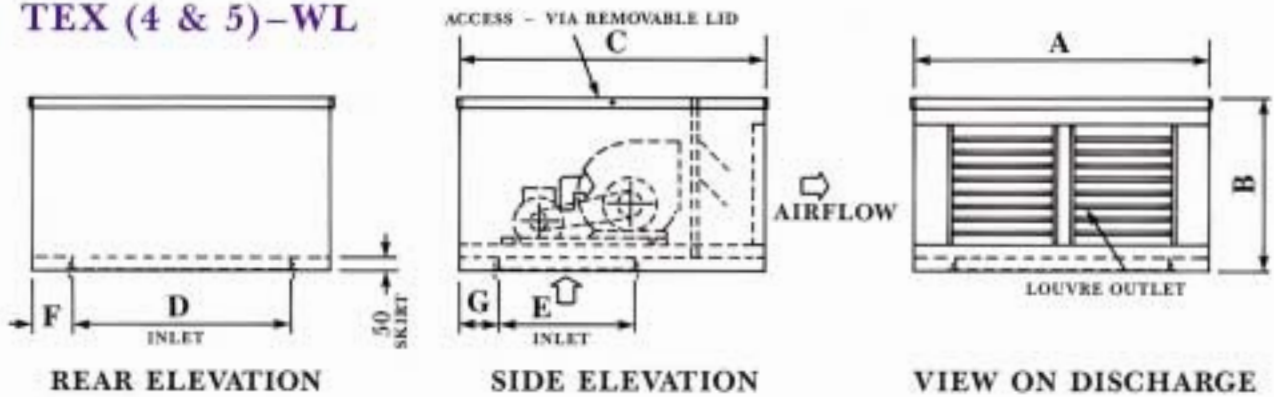


TEX	A	B	C	D1	D2	E	F	G	H	K	L	WEIGHT KG
11-WL & WH	850	400	550	550	550	275	150	120	700	400	70	30
12-WL & WH	850	400	550	550	550	275	150	120	700	400	70	30
23-WL & WH	900	560	750	650	700	430	125	120	750	600	70	60
24-WL & WH	900	560	750	650	700	430	125	120	750	600	70	60
26-WL & WH	900	560	750	650	700	430	125	120	750	600	70	76
35-WL & WH	1000	600	800	700	700	430	150	150	850	650	70	70
36-WL & WH	1000	600	800	700	700	430	150	150	850	650	70	90
37-WL & WH	1000	600	800	700	700	430	150	150	850	650	70	90

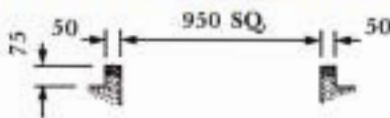
DIMENSIONS

WEATHER PROOF UNITS – BELT DRIVE

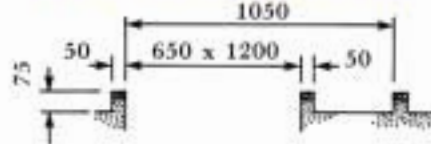
TEX (4 & 5)-WL



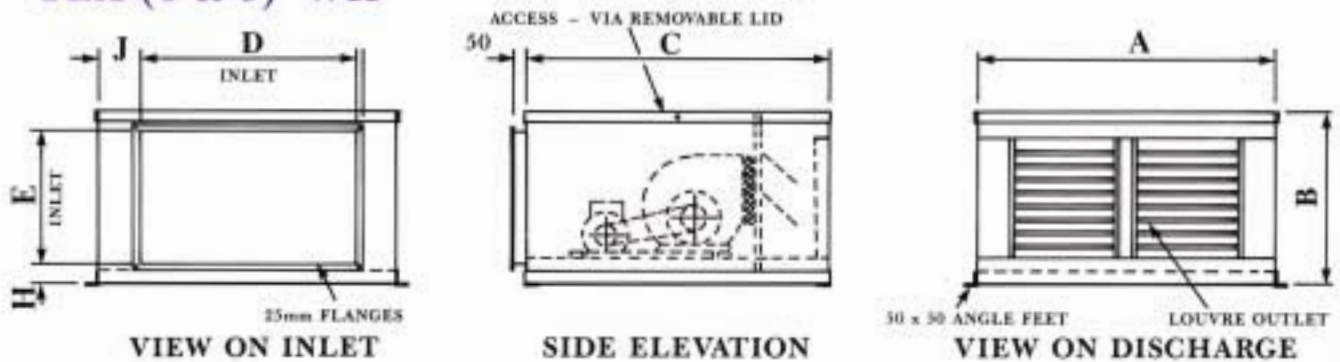
TEX 4-WL CURB DETAIL



TEX 5-WL CURB DETAIL



TEX (4 & 5)-WH



MODEL	A	B	C	D	E	F	G	H	J	WEIGHTS KG
TEX 4 WL & WH	1100	650	1100	800	500	130	150	75	150	184
TEX 5 WL & WH	1350	700	1200	1000	500	175	150	75	150	234

DIMENSIONS

AUTO CHANGEOVER PANELS



AF300 and AF400

■ THE VES automatic changeover systems incorporate all that is necessary to provide 100% standby facility.

The AF300 allows manual selection of either fan, with fully automatic changeover in the event of airflow failure from the selected fan.

The AF315 has a larger fuse for use only with the size 7 fan.

The AF400 offers automatic duty sharing between the two fans, changing every 12 hours, as well as automatic changeover in the event of airflow failure from the operational fan.

Both types provide immediate visual indication of the system status:

- Fan running light – green.
- Fan failure light – amber.
- Mains on – red.

Each unit has cartridge loaded fuses, single selection switch, die-cast aluminium box with white powder coat finish and suitable for wall or panel mounting.

Belt driven units are internally fitted with individual overloads and contactors to each motor, and require a separate 1 phase or 3 phase supply. These units are still controlled by airflow failure via the AF300 and AF400 panels.

Also available – AF300S and AF400S units with special feature options:

- Volt free contacts to show fan failure.
- 240 volt signal to indicate fan run and fan fail.
- Run-on timer.

■ DIMENSIONS: mm

MODEL	WIDTH	HEIGHT	DEPTH	PLUS KNOB
AF300	120	188	57	20
AF400	222	145	55	20

N.B. AF300S and AF400S will be larger than above dimensions.

■ TEX ELECTRICAL DETAILS: DIRECT DRIVE

FAN	MOTOR OUTPUT WATTS	FLC AMPS MAX	FAN SPEED
1	73	0.40	900
2	92	1.10	1300
3	125	1.30	850
4	250	2.80	910
5	250	3.40	910
6	550	6.10	1380
7	550	8.00	1380

Fans 1-7 are 240 volt, 1 phase only.

VES reserve the right to amend details without notice.

SPECIFICATIONS