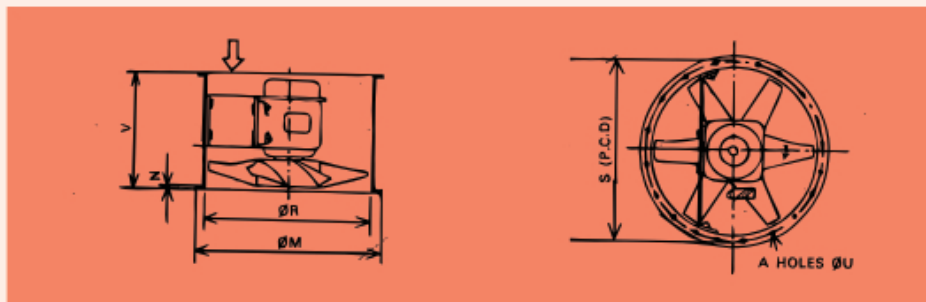


ARRANGEMENT - AD



This arrangement is suitable for mounting on roofs or in ducts. The casing is an all welded sheet steel construction with flat iron flanges.

While mounting in ducts, the installation must be planned so that the fan can be taken out if required. This arrangement incorporated with a weather cowl, makes an ideal Roof Extractor.

Dimension Table for Arrangement AD

TCA	ØM	N	QR	S	ØU	V	A
50	570	6	500	540	11.5	350	12
60	670	6	600	640	11.5	430	16
70	787	6	700	746	11.5	440	16
80	887	6	800	846	11.5	560	20
90	987	6	900	950	15	575	20
100	1087	6	1000	1046	11.5	590	20
120	1298	10	1200	1256	15	680	24
140	1498	10	1400	1456	15	760	24
160	1698	10	1600	1656	15	800	24

Note : All dimensions are approximate and subject to change without notice



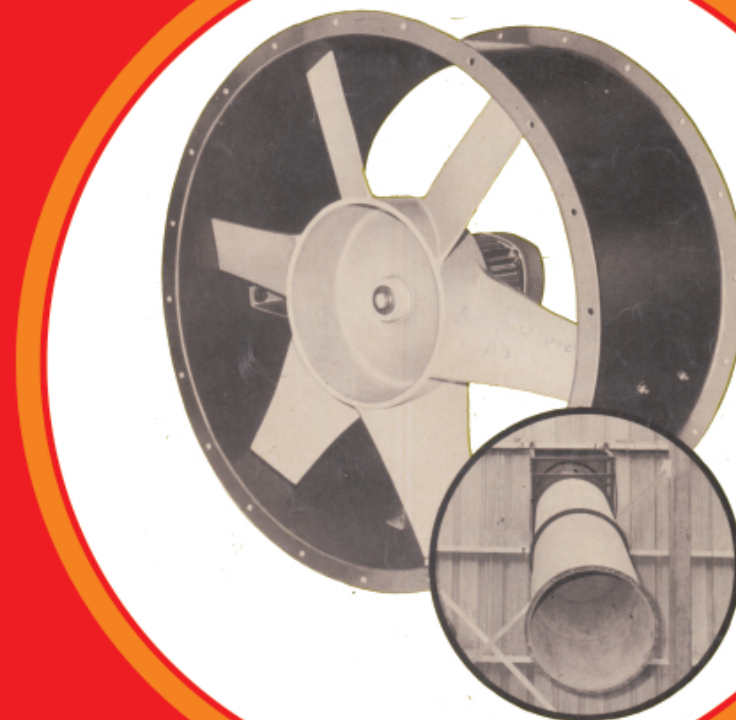
T.V. AIR CONTROL SYSTEMS (P) LTD

Regd. Office : SP-72, Ambattur Industrial Estate, Chennai - 600 058.

Sales Office : Lodghar Manzil, Shop No. F5, First Floor, Old No. 4, New No. 14, Maclean Street, Broadway, Chennai - 600 001.

Ph: 044 - 2538 1376 / 4206 1376 E-mail : tvaircontrolsystem@gmail.com

AXIAL FLOW FANS



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AXIAL FLOW FANS

Problems in industry such as general ventilation, fume exhaust and removal of hot spots, can be solved by **TVACS** Axial Flow Fans. Backed by the vast experience of **TVACS** Engineers in the field of design, manufacture and application, we can offer a most economical and efficient installation, whatever be the industry such as Textile, Chemical, Power House, Tea, Food Processing, Printing, Paper, Sugar and others. In any factory, these fans find a place where they can be used effectively

AXIAL FLOW FAN : TYPE 'TCA'

'TCA' series fans are Axial Flow Units covering a wide range of air quantities from 3,000 to 1,40,000 cu.m/hr. All 'TCA' fans have cast aluminium alloy impellers with high efficiency aero - foil section blades. These fans are either of the wall or duct mounting type. The impellers are directly mounted on totally enclosed squirrel cage induction motors suitable for 400 / 440 Volts, 3 Phase, 50 Cycles A.C. Supply 'TCA' fans can be supplied in the following arrangements :

ARRANGEMENT - AW

This arrangement is intended exclusively for use where the fan motor can be placed in the air current and where no change in speed is required. This is suitable for wall mounting.



Motor Rating

TCA	50	60	70	80	80	90	90	100	120	120	140	140	160
rpm	1420	1420	1420	950	1420	950	1420	950	720	950	720	950	720
Motor	0.5 HP	0.75 HP	2.00 HP	1.00 HP	3.00 HP	2.00 HP	7.5 HP	3.00 HP	3.00 HP	7.50 HP	7.50 HP	20.00 HP	15.00 HP

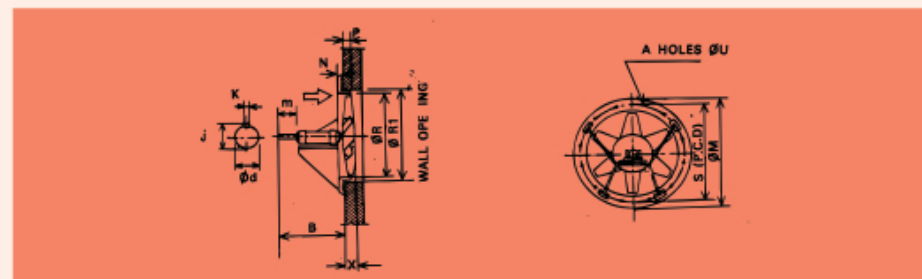
Dimension Table for TCA Arrangement AW and BW

TCA	ØM		N	P	ØR	ØR1	S	ØU	X	B	Z	A	Ød	J	K	M
50	640		14	30	500	525	590	15	70	266	270	4	35	38.5	10	60
60	750		18	30	600	625	700	15	85	260	270	6	35	38.5	10	60
70	870		18	40	700	725	810	15	100	260	300	6	40	43.5	12	60
80	970		15	46	800	825	920	18	110	291	440	6	45	49	14	80
90	1080		16	46	900	930	1000	18	120	280	400	8	50	54	14	95
100	1180		18	51	1000	1030	1120	18	135	280	342	8	50	54	14	95
120	1568		18.5	104	1200	1200	1480	18	210	305	522	12	60	65	18	100
140	1767		18.5	104	1400	1400	1680	18	220	360	496	12	70	76	20	115
160	2007		18.5	129	1600	1600	1920	18	290	435	446	12	75	81	20	165

ARRANGEMENT - BW

This arrangement is used for blowing air or gas so hot that the fan motor must be mounted outside the air current. The wall frame has a streamlined inlet.

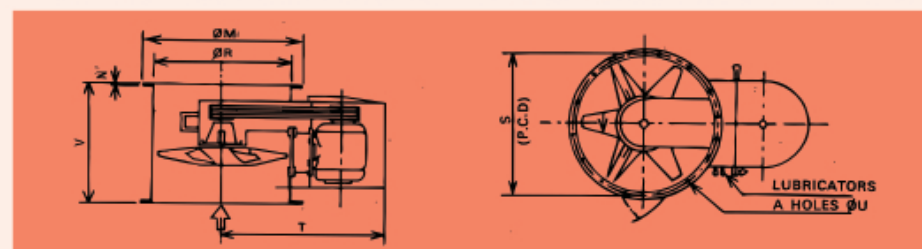
The impeller is attached to one end of the shaft supported by two ball bearings in one common housing which is supported on a bracket fitted to the wall frame. A coupling or pulley can be attached to the other free end of the shaft.



ARRANGEMENT - BD

In this arrangement, the fan shaft and its bearings are mounted in a bearing housing fastened by three support arms to the surrounding casing. The casing is of M. S. Sheet, but can also be manufactured from aluminium sheet if desired. It has flat iron flanges and a large inspection door. The bearings can be lubricated from a nipple outside the fan casing.

The motor is placed in a housing outside the casing and from there the impeller is driven by means of V-Belts. These belts move inside one of the support arms and is thus protected from contact with air or gas in the dust. The large inspection door and the construction of the bearing housing facilitates the changing of the V-Belt



Dimension Table for Arrangement BD

TCA	ØM	N	ØR	S	T	ØU	V	A
70	787	6	700	746	810	11.5	795	16
80	887	6	800	846	960	11.5	835	20
90	987	6	900	950	1010	11.5	885	20
100	1087	6	1000	1046	1075	11.5	965	20
120	1298	10	1200	1256	1280	15	1110	24
140	1498	10	1400	1456	1550	15	1240	24
160	1698	10	1600	1656	1620	15	1370	24