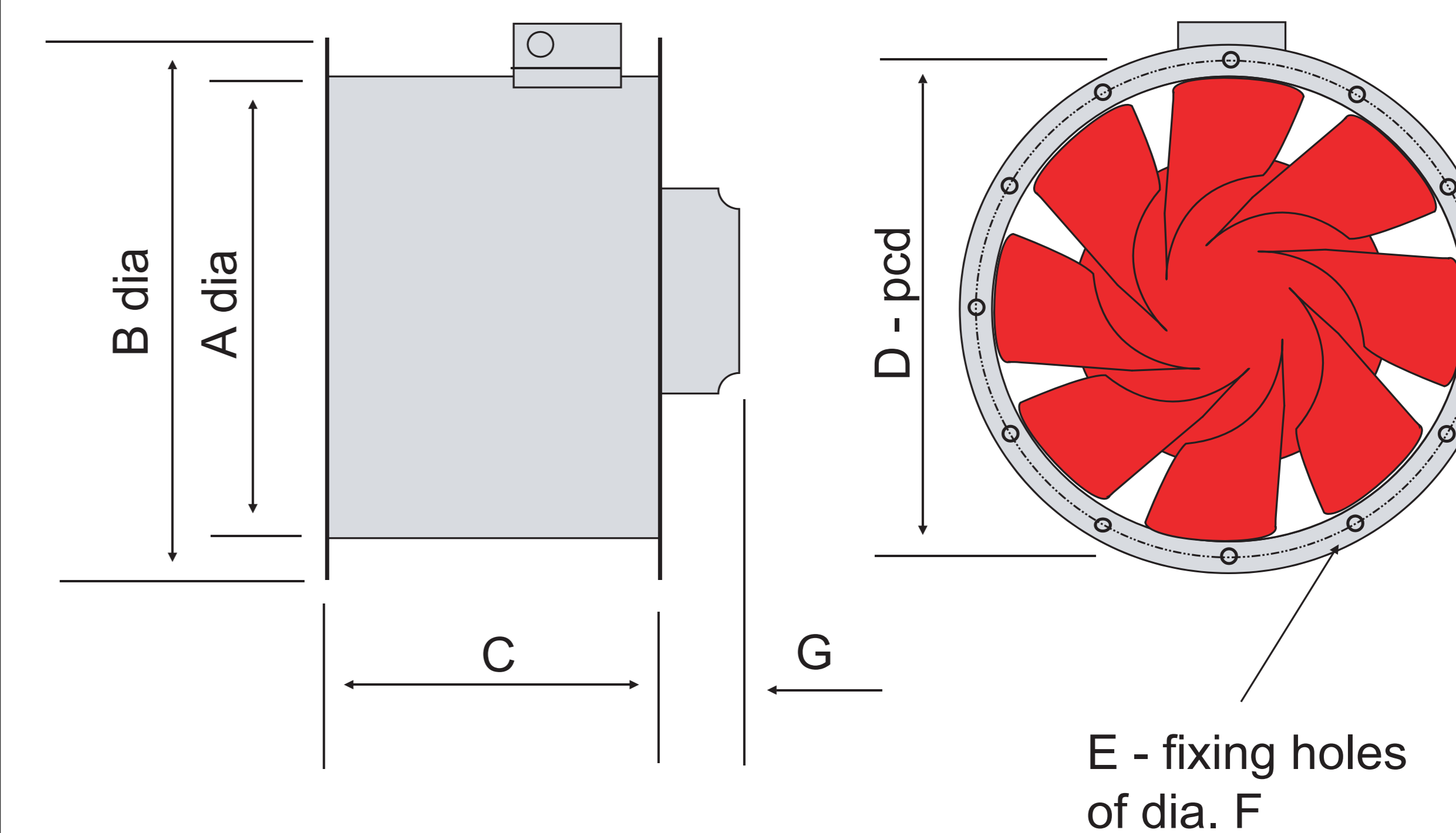




SPECIFICATION

- Casing**
Galvanised sheet steel. Larger models galvanised after manufacture.
- Impeller**
High efficiency mixed flow impeller made of polymers to 355 mm size and larger sizes of steel galvanised after manufacture.
- Motor**
Totally enclosed IP 54/55. Sealed for life ball bearings.
- Motor protection**
All fans have motor protection. 1 ph. are pre-wired, 3 ph. thermal contacts wire via MD or RDS protection device.
- Terminal box**
All terminal boxes are mounted on the casing and IP 55.
- Guide vanes**
All models have guide vanes round the motor protection tube.
- Speed control**
All models are speed controllable using the controllers below.
- Installation**
Installation in any position.
- Sound levels**
The sound levels given below are dB(A) at a distance of 4 metres.



ANCILLARIES

DIMENSIONS



Fan nominal size in mm	Ancillary kit 2-feet, 2-flex, flanges & avm	Feet (pair)	Flange	Flexible connector (pair)	Guard	Anti-vibration mountings (set of 4)	Silencer (RSD dia/length)	Fan nominal size in mm	Dimensions in mm						
									A	B	C	D	E	F	G
225	AK 225	MK 200-225	FR 225	FM 225	SG 225	SDD 1		225	225	277	300	259	6	6	-
250	AK 250	MK 250-280	FR 250	FM 250	SG 250	SDD 1	RSD 250/600	250	250	305	300	286	6	6	-
280	AK 280	MK 250-280	FR 280	FM 280	SG 280	SDD 1	RSD 280/800	280	280	346	300	322	8	9.5	-
315	AK 315	MK 315-355	FR 315	FM 315	SG 315	SDD 1	RSD 315/800	315	315	380	300	356	8	9.5	55
355	AK 355	MK 315-355	FR 355	FM 355	SG 355	SDD 1	RSD 355/800	355	355	420	300	395	8	9.5	145
400	AK 400	MK 400-450	FR 400	FM 400	SG 400	SDD 1	RSD 400/600	400	400	465	330	438	12	9.5	265
450	AK 450	MK 400-450	FR 450	FM 450	SG 450	SDD 1.5	RSD 450/600	450	450	515	350	487	12	9.5	390
500	AK 500/VAR	MK 500-560	FR 500	FM 500	SG 500	SDD 1.5	RSD 500/600	500	500	565	350	541	12	9.5	425
560	AK 560/VAR	MK 500-560	FR 560	FM 560	SG 560	SDD 1.5	RSD 560/600	560	560	640	420	605	16	11.5	255
630	AK 630/VAR	MK 630	FR 630	FM 630	SG 630	SDD 1.5	RSD 630/600	630	630	710	420	674	16	11.5	310
710	AK 710/VAR	MK 710	FR 710	FM 710	SG 710	SDD 2	RSD 710/600	710	710	810	570	751	16	11.5	340



Cased Mixed flow fans – High pressure 200 to 710 diameter

Hotline:
01206 228 500



Single phase models 230 V / 1 ph. / 50 Hz

SELECTION DATA

Fan code	Speed	Volume flow m ³ /s against static pressure Pa.												Motor power	Current		Max. air flow temp		Speed controller	Starter with overheat protection	Weight	Sound level @ 4 m
		0	50	100	150	200	250	300	350	400	450	500	550		full load	speed controlled	standard	speed controlled				
	rpm	0	50	100	150	200	250	300	350	400	450	500	550	kW	A	A	+°C	+°C	Transformer	kg	dB(A)	
VARW 225/2*	2770	0.525	0.503	0.478	0.450	0.417	0.375							0.35	1.90	2.50	60	40	TSW 1.5	MW	10.5	61
VARW 250/2	2800	0.719	0.694	0.669	0.639	0.606	0.569	0.525	0.448					0.55	2.40	3.00	60	40	TSW 5.0	MW	13.0	64
VARW 280/2	2730	1.011	0.983	0.956	0.925	0.892	0.874	0.814	0.763	0.711				0.79	4.00	4.50	60	40	TSW 5.0	MW	14.0	68
VARW 315/4*	1380	0.742	0.686	0.611	0.494									0.23	1.10	1.30	60	40	TSW 3.0	MW	13.0	56
VARW 355/4	1380	1.064	1.003	0.922	0.828	0.650								0.35	1.70	2.00	60	40	TSW 3.0	MW	15.5	60
VARW 400/4	1390	1.464	1.389	1.308	1.200	1.076								0.73	3.20	3.70	60	40	TSW 5.0	MW	22.5	63
VARW 450/4	1330	1.994	1.903	1.819	1.694	1.542	1.389							1.47	6.50	7.00	60	40	TSW 7.5	MW	45.0	67
VARW 500/4	1340	2.756	2.664	2.589	2.500	2.361	2.247	2.108	1.908					2.02	9.10	9.10	60	40	TSW 10	MW	70.0	70

* ATEX certified explosion proof models available ring 01206 228 500.

Three phase models 400 V / 3 ph. / 50 Hz

SELECTION DATA

Fan code	Speed	Volume flow m ³ /s against static pressure Pa.												Motor power	Current		Max. air flow temp		Speed controller	Starter with overheat protection	Weight	Sound level @ 4 m
		0	50	100	150	200	300	400	500	600	700	800	900		full load	speed controlled	standard	speed controlled				
	rpm	0	50	100	150	200	300	400	500	600	700	800	900	kW	A	A	+°C	+°C	Transformer	kg	dB(A)	
VARD 225/2*	2720	0.525	0.503	0.487	0.450	0.417								0.28	0.60	0.60	60	40	RDS 1 ¹⁾	MD	10.5	61
VARD 250/2*	2800	0.719	0.694	0.669	0.639	0.606	0.525							0.47	1.10	1.10	60	40	RDS 2 ¹⁾	MD	11.5	64
VARD 280/2*	2690	1.011	0.983	0.956	0.925	0.892	0.814	0.711						0.77	1.60	1.80	60	40	RDS 2 ¹⁾	MD	13.5	68
VARD 315/2/2	2680	1.439	1.411	1.383	1.353	1.319	1.244	1.161	1.058	0.842				1.40	2.50	2.80	60	40	RDS 4 ¹⁾	M 4	20.5	71
VARD 355/4*	1380	1.064	1.003	0.922	0.828	0.650								0.41	1.15	1.15	60	40	RDS 1 ¹⁾	MD	15.5	60
VARD 355/2/2	2800	2.058	2.028	1.997	1.967	1.931	1.850	1.764	1.669	1.561	1.417			2.66	4.6	5.6	60	30	RDS 7 ¹⁾	M 4	21.5	75
VARD 400/4*	1400	1.472	1.399	1.318	1.208	1.083								0.73	2.00	2.00	60	40	RDS 4 ¹⁾	MD	22.5	63
VARD 400/2/2	2800	2.947	2.917	2.882	2.847	2.811	2.719	2.639	2.542	2.417	2.319	2.175	2.014	4.90	8.00	10.0	60	40	RDS 11 ¹⁾	M 4	74.0	78
VARD 450/4/4	1370	2.053	1.958	1.875	1.746	1.589								0.74	2.30	2.30	60	40	RDS 4 ¹⁾	M 4	45.0	67
VARD 450/2*	2890	4.331	4.306	4.271	4.201	4.167	4.111	4.028	3.942	3.803	3.681	3.592	3.472	8.00	15.0	–	60	–	Inverter	MSA	95.0	83
VARD 500/4/4	1370	2.797	2.728	2.647	2.556	2.414	2.158	1.625						1.80	3.90	3.90	60	40	RDS 7 ¹⁾	M4	70.0	70
VARD 500/2*	2935	6.036	5.928	5.903	5.861	5.806	5.750	5.681	5.583	5.472	5.361	5.250	5.139	15.0	16.7	–	60	–	Inverter	MSA	180.0	86
VARD 560/4/4	1390	3.956	3.944	3.819	3.736	3.611	3.389	3.056	2.604					3.00	5.90	6.50	60	40	RDS 7 ¹⁾	M 4	95.0	73
VARD 630/6/6	920	3.786	3.636	3.461	3.250	3.028								1.56	3.90	3.90	60	40	RDS 7 ¹⁾	M 4	110.0	67
VARD 630/4*	1440	5.922	5.875	5.764	5.689	5.556	5.306	5.056	4.750	4.375	3.736			6.20	12.0	–	60	–	Inverter	MSA	145.0	77
VARD 710/6*	950	5.586	5.433	5.277	5.033	4.771	4.120	3.125						3.00	7.50	7.50	60	–	on request	M 4	170.0	70
VARD 710/4*	1450	8.708	8.617	8.528	8.392	8.278	8.033	7.722	7.444	7.133	6.750	6.333	5.775	11.0	12.7	–	60	–	Inverter	–	220.0	81

* ATEX certified explosion proof models available ring 01206 228 500.

1) With motor overheat protection – requires 6 core cable to the fan.