



A-E RANGE

Low-pressure axial fans

Industrial wall-mounted slim axial fans, available in different diameters and in single and three phase versions, designed for the ventilation of commercial and industrial premises, such as offices, gyms, restaurants, discos, dry cleaners and warehouses.

Range Code Key

A-E	25	2	M
Range Name	Diameter 25 = 250 30 = 300	Poles	M = Single-Phase T = Three-Phase

Versions

- 19 models, in single and three-phase versions, with 2, 4 and 6 poles, with a nominal diameter between 250 and 630 mm.

Key features

- Reduced axial clearance.
- Possibility of installation in the presence of pressure drops (e.g. discharge via duct or through filters).
- Robust and weatherproof construction.
- Motors with high (IP54) degree of protection against dust and water.

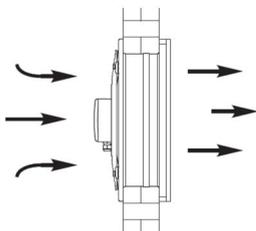
Technical features

- Wall panels made of pressed steel, pickled, phosphated and epoxy powder coated with hammered effect finish, guaranteeing long-term resistance to aggressive agents, in grey colour with hammered finish.
- Ventilation ports, fashioned in one piece with the wall panels, elongated profile, gauged to optimise airflow.
- Safety and anti-bird protective grilles designed in accordance with the UNI ISO 13857 standard combining the function of motor bracket, made of electrically welded steel rings with epoxy black paint finish. Easy removal simplifies the maintenance and cleaning of the fan.
- Class F thermally protected asynchronous rotor type motors in order to contain the axial clearance of the fan, with shafts mounted on double shielded ball bearings, characterized by high (IP54) degree of protection against dust and water, speed adjustable by Vortex controllers.
- Starting capacitors of the single-phase models comply with the EN 60252-1 standard and are third-party certified.
- Dynamically balanced impeller (UNI ISO 1940, Class 6.3); variable number of blades from 4 to 7 according to the model, moulded in electrically galvanised sheet steel and polyester powder-coated.

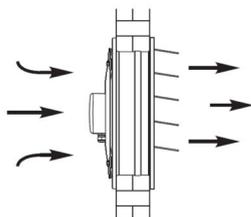
Note

- The fans of the VORTICEL A-E range comply with Reg. ErP No. 327/2011/EU.
- The fans of the VORTICEL A-E range are compatible with applications that envision high pressure drops, such as those induced by discharge into ventilation ducts or by coupling to air filters. They are not suitable for handling flows characterized by significant concentrations of abrasive powders or acid or corrosive substances.

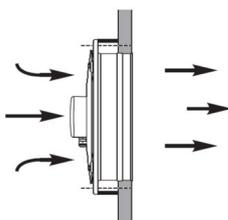
with safety grille



With gravity louvre



With wall spacer





TECHNICAL DATA

	PRODUCTS	CODE	V~50HZ	W	A	POLES	RPM	MAX AIRFLOW		MAX PRESSURE		Lp dB(A) * 3 m	MAX °C**	KG
								m³/h	l/s	mmH₂O	Pa			
SINGLE - PHASE	A-E 252 M (250 DIA)	42207	220-240	95	0.41	2	2500	1365	379	379	177	53.0	50	2.1
	A-E 254 M (250 DIA)	42208	220-240	38	0.17	4	1400	764	212	212	61	38.5	50	2.1
	A-E 304 M (300 DIA)	42216	220-240	81	0.35	4	1400	1563	434	434	130	43.0	50	3.0
	A-E 354 M (350 DIA)	42258	220-240	170	0.75	4	1400	2960	822	822	100	49.5	50	6.2
	A-E 404 M (400 DIA)	42260	220-240	300	1.33	4	1400	4310	1197	1197	152	55.6	50	9.3
	A-E 454 M (450 DIA)	42307	220-240	270	1.19	4	1400	5250	1458	1458	127	54.8	50	15.0
	A-E 504 M (500 DIA)	42316	220-240	482	2.12	4	1400	6639	1844	1844	186	59.0	50	13.2
	A-E 506 M (500 DIA)	42337	220-240	290	1.27	6	1000	4805	1335	1335	152	57.2	50	17.6
	A-E 566 M (560 DIA)	42356	220-240	350	1.60	6	1000	6715	1865	1865	134	57.2	50	24.2
THREE - PHASE	A-E 254 T (250 DIA)	42357	380-415	50	0.22	4	1400	785	218	218	134	39.0	50	2.5
	A-E 304 T (300 DIA)	42227	380-415	79	0.22	4	1400	1696	471	471	129	46.0	50	3.4
	A-E 354 T (350 DIA)	42259	380-415	166	0.35	4	1400	2980	828	828	115	48.7	50	6.2
	A-E 404 T (400 DIA)	42261	380-415	318	0.65	4	1400	3832	1064	1064	246	62.5	50	6.3
	A-E 454 T (450 DIA)	42308	380-415	370	0.73	4	1350	5187	1440	1440	155	58.0	50	6.5
	A-E 504 T (500 DIA)	42327	380-415	485	1.12	4	1400	6966	1935	1935	128	60.5	40	11.1
	A-E 506 T (500 DIA)	42346	380-415	250	0.79	6	1000	5040	1400	1400	96	52.7	50	15.0
	A-E 564 T (560 DIA)	42336	380-415	925	1.71	4	1400	9255	2570	2570	285	54.9	40	14.8
	A-E 566 T (560 DIA)	42366	380-415	480	1.06	6	1000	8050	2236	2236	175	56.7	50	20.8
	A-E 636 T (630 DIA)	42347	380-415	522	1.10	6	1000	9502	2639	2639	154	58.0	50	15.8

*Sound pressure level measured at 1 and 3m in free field conditions in accordance with standard ISO 3741.

** Maximum continuous operating temperature of the product.



AXIAL FANS



A-E RANGE

ERP DATA DIRECTIVE N° 327/2011/UE

SINGLE - PHASE

PRODUCTS	CODE	MEASUREMENT CAT.	EFFICIENCY CAT.	YEAR OF CONSTRUCTION	VARIABLE DRIVE	η	N.	kW Pe	m ³ /h q	BEP* Pa p	RPM	Spec. ratio <1.04
A-E 354 M (350 DIA)	42258	A	STATIC	2015	NO	29.0	41.0	0.1450	1975	74.1	1333	YES
A-E 404 M (400 DIA)	42260	A	STATIC	2015	NO	32.1	42.0	0.2282	3121	84.6	1375	YES
A-E 454 M (450 DIA)	42307	A	STATIC	2015	NO	31.6	41.5	0.2749	3501	89.4	1309	YES
A-E 504 M (500 DIA)	42316	A	STATIC	2013	NO	32.2	41.0	0.3972	4749	101	1285	YES
A-E 506 M (500 DIA)	42337	A	STATIC	2015	NO	29.9	40.0	0.2293	3681	67.1	924	YES
A-E 566 M (560 DIA)	42356	A	STATIC	2015	NO	32.7	42.0	0.2816	4468	74.3	891	YES

THREE - PHASE

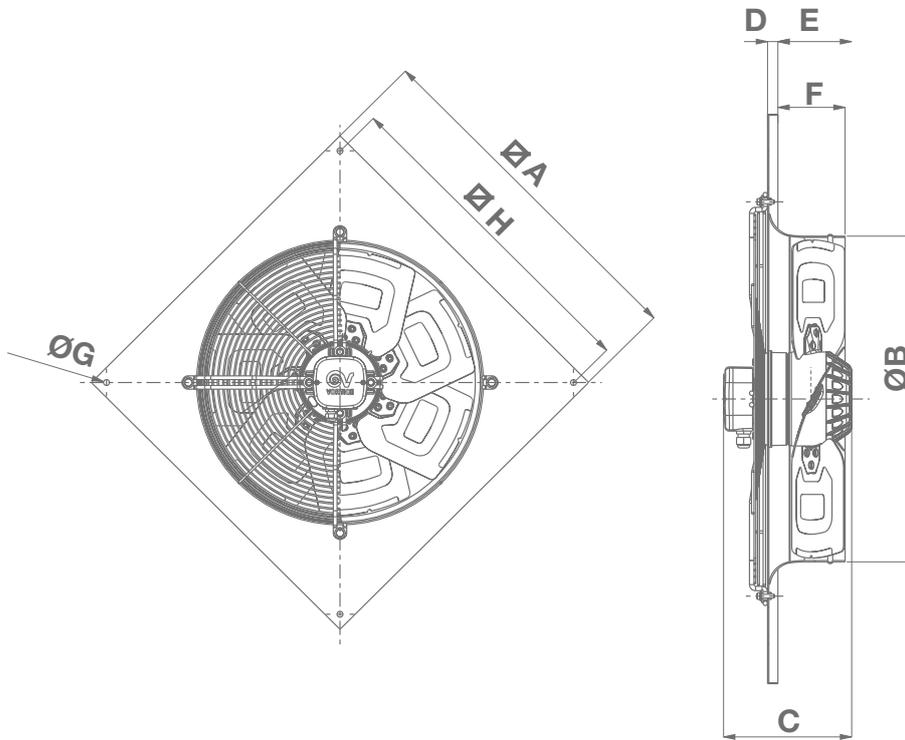
A-E 354 T (350 DIA)	42259	A	STATIC	2015	NO	29.5	41.0	0.1415	2107	71.2	1332	YES
A-E 404 T (400 DIA)	42261	A	STATIC	2013	NO	29.2	40.0	0.2078	2376	96	1428	YES
A-E 454 T (450 DIA)	42308	A	STATIC	2013	NO	30.8	40.0	0.3049	3442	101	1384	YES
A-E 504 T (500 DIA)	42327	A	STATIC	2013	NO	32.9	41.0	0.4741	5056	116	1366	YES
A-E 506 T (500 DIA)	42346	A	STATIC	2015	NO	29.5	40.0	0.2162	3408	68.3	957	YES
A-E 564 T (560 DIA)	42336	A	STATIC	2013	NO	36.6	44.0	0.7527	6528	159	1349	YES
A-E 566 T (560 DIA)	42366	A	STATIC	2015	NO	31.7	41.0	0.3749	5249	81.4	936	YES
A-E 636 T (630 DIA)	42347	A	STATIC	2013	NO	33.8	43.0	0.410	6309	82	923	YES

* Best efficiency point.





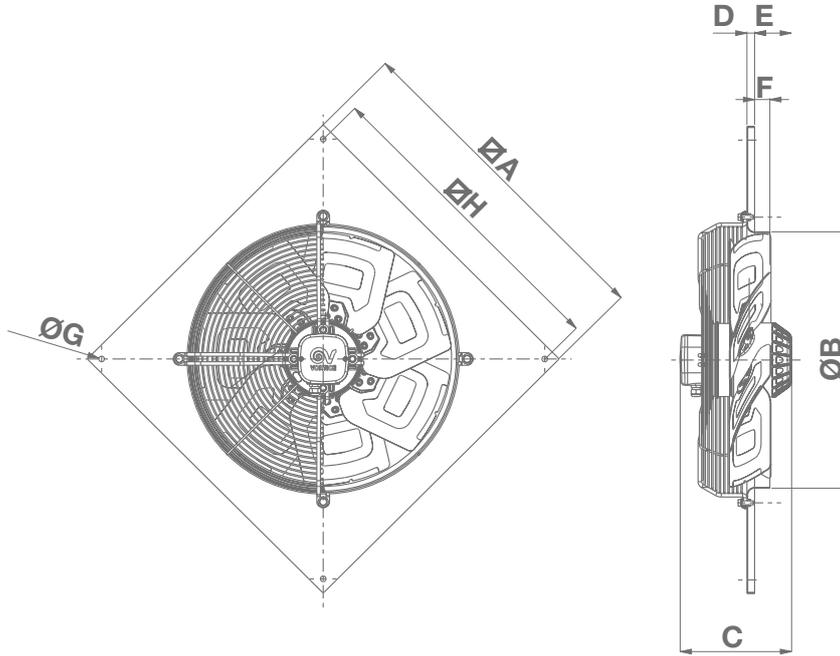
DIMENSIONS



PRODUCTS	BLADES	$\varnothing A$	$\varnothing B$	C	D	E	F	G	$\varnothing H$
A-E 252 M (250 DIA)	5	320	264	149	10	-	82	8	280
A-E 254 M (250 DIA)	5	320	264	149	10	-	82	8	280
A-E 254 T (250 DIA)	5	320	264	149	10	-	82	8	280
A-E 304 M (300 DIA)	5	380	316	151	10	-	84	8	330
A-E 304 T (300 DIA)	5	380	316	151	10	-	84	8	330
A-E 354 M (350 DIA)	5	450	361	155	12	85	74	9	380
A-E 354 T (350 DIA)	5	450	366	155	12	85	74	9	380
A-E 404 M (400 DIA)	4	510	406	200	12	108	88	12	430
A-E 454 M (450 DIA)	4	630	455	206	15	100	85	12	530
A-E 506 M (500 DIA)	7	630	508	218	16	134	105	11	530
A-E 506 T (500 DIA)	4	630	508	198	16	114	105	11	530
A-E 566 M (560 DIA)	5	725	563	248	16	161	105	11	675
A-E 566 T (560 DIA)	5	725	563	218	16	131	105	11	675

Dimensions (mm)

DIMENSIONS

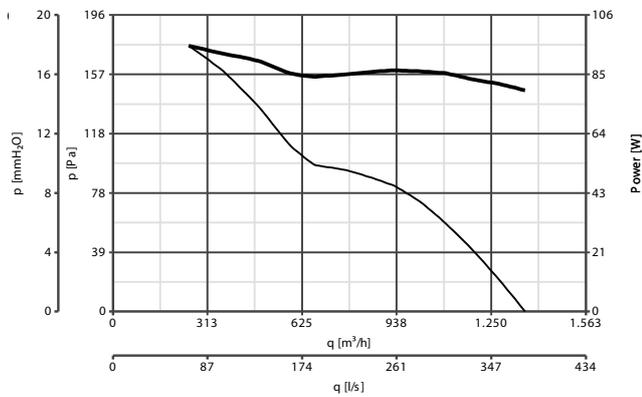


PRODUCTS	BLADES	ØA	ØB	C	D	E	F	G	ØH
A-E 404 T (400 DIA)	4	510	406	207	15	67	30	12	430
A-E 454 T (450 DIA)	4	630	455	207	15	67	30	12	530
A-E 504 M (500 DIA)	4	630	507	218	15	72	30	11	530
A-E 504 T (500 DIA)	4	630	507	198	15	52	30	11	530
A-E 564 T (560 DIA)	4	725	563	218	15	67	30	11	675
A-E 636 T (630 DIA)	4	805	638	218	15	68	45	11	750

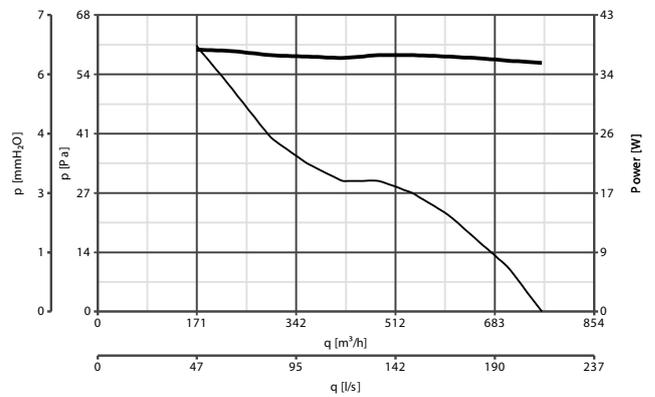
Dimensions (mm)

PERFORMANCE CURVES

A-E 252 M



A-E 254 M

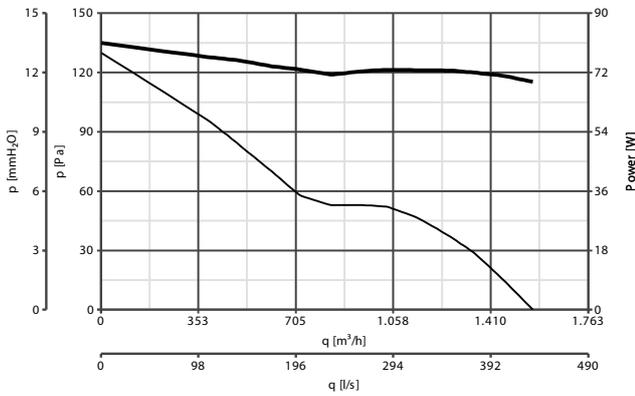


— Power consumption
— Delivery

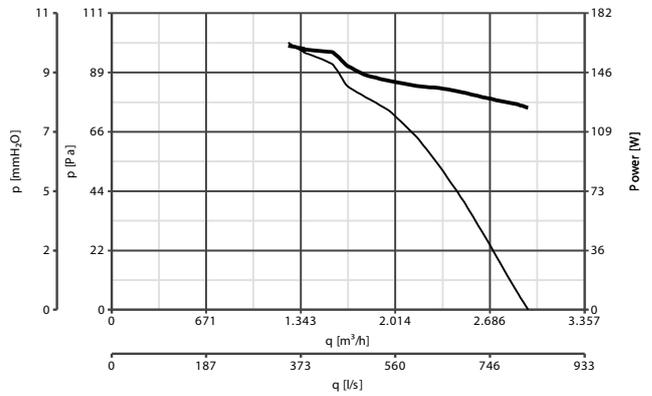


PERFORMANCE CURVES

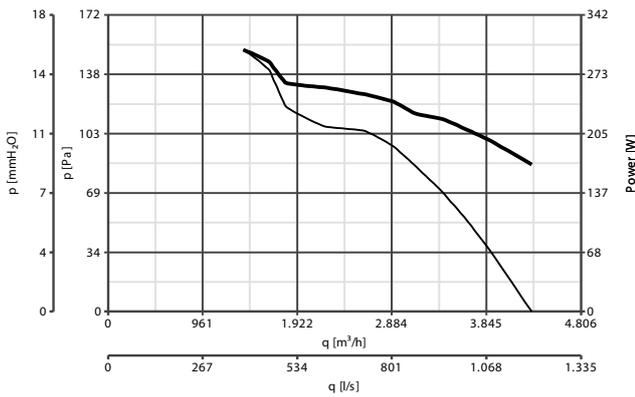
A-E 304 M



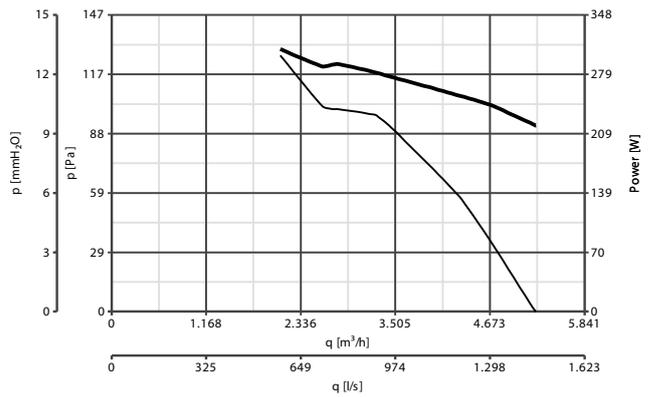
A-E 354 M



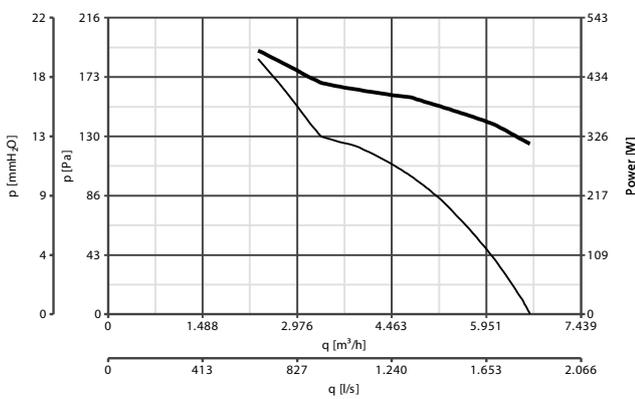
A-E 404 M



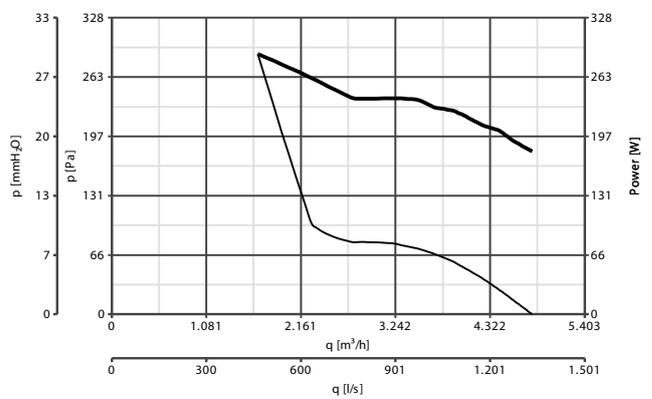
A-E 454 M



A-E 504 M



A-E 506 M



Power consumption
 Delivery



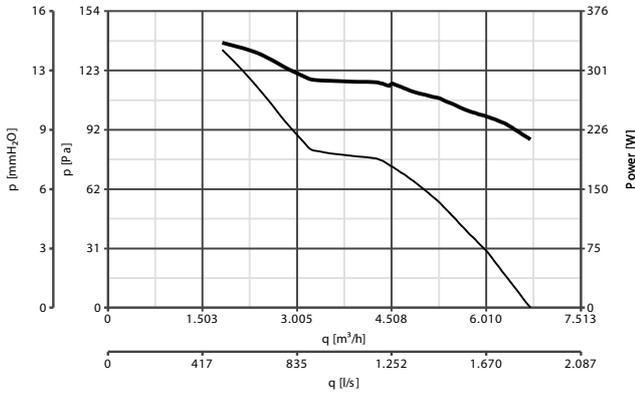
AXIAL FANS



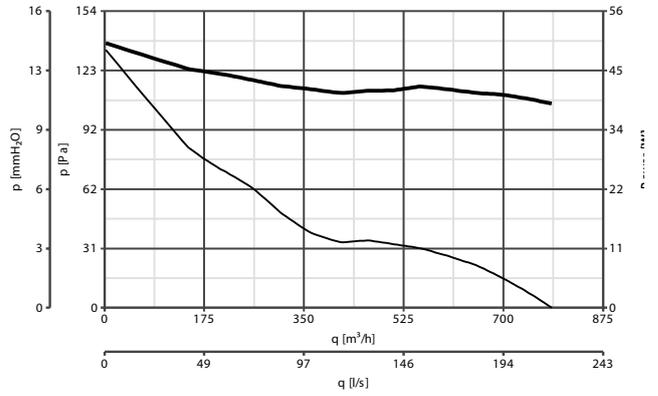
A-E RANGE

PERFORMANCE CURVES

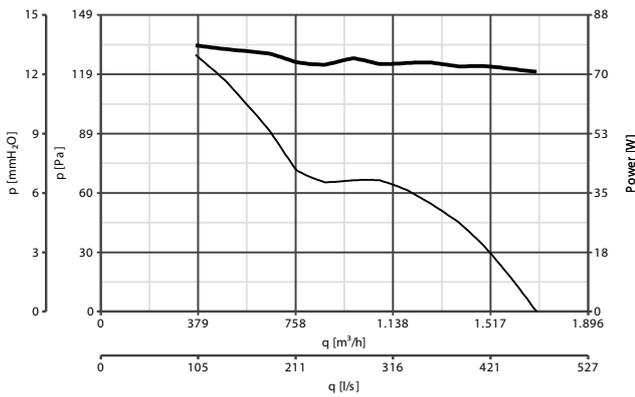
A-E 566 M



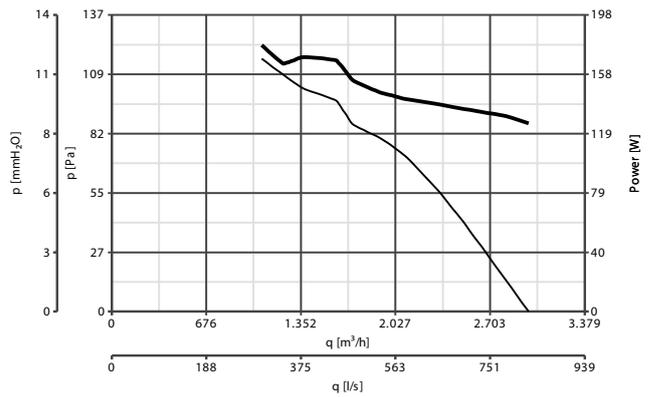
A-E 254 T



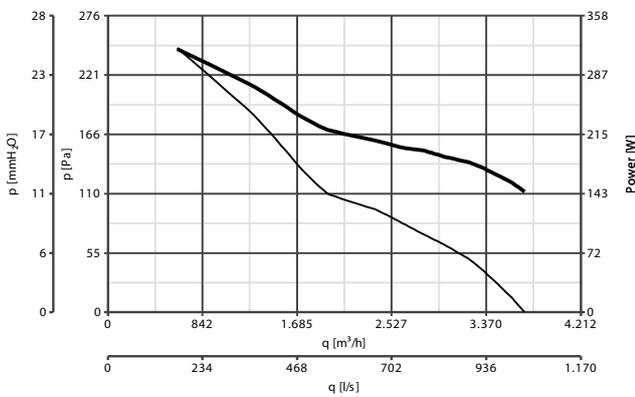
A-E 304 T



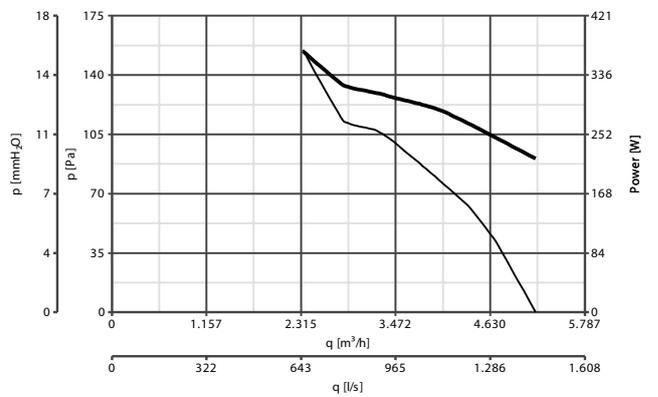
A-E 354 T



A-E 404 T



A-E 454 T



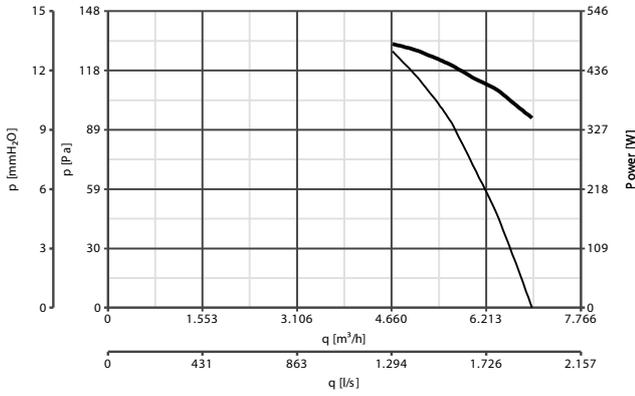
Power consumption
 Delivery



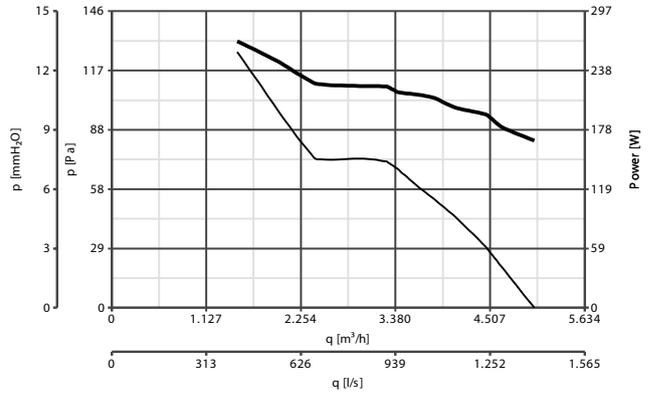


PERFORMANCE CURVES

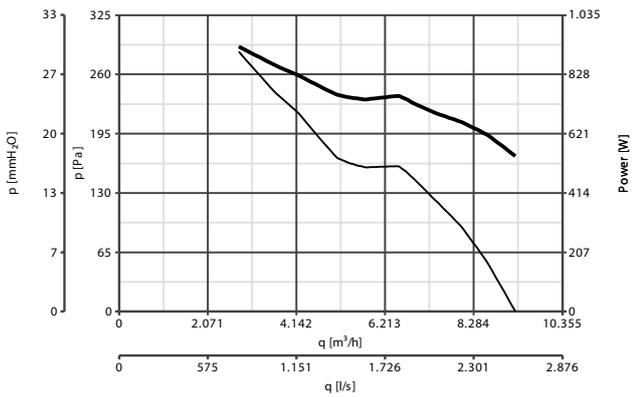
A-E 504 T



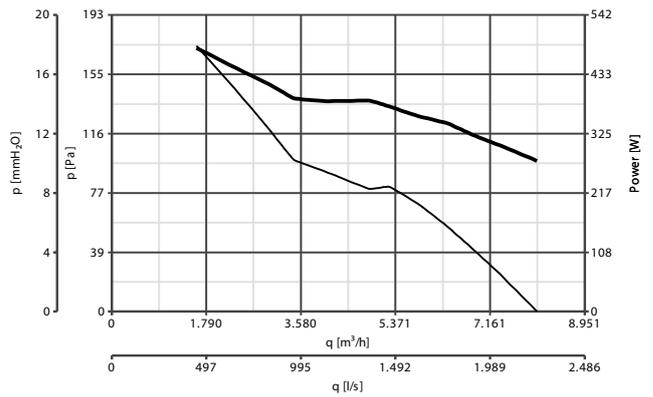
A-E 506 T



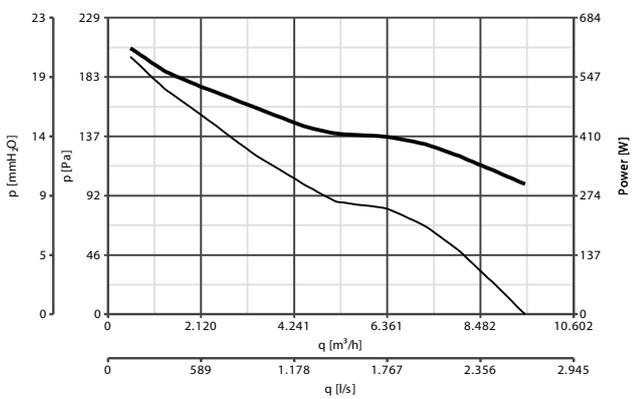
A-E 564 T



A-E 566 T



A-E 636 T



Power consumption
 Delivery

ACCESSORIES

MODELS	DESCRIPTION	CODE	PRODUCTS	
	DPU - Spacer for panel installation	250	52151	42207 - 42208 - 42357
		300	52251	42216 - 42227
		350	52351	42258 - 42259
		400	52451	42260 - 42261
	PGR - Gravity shutter	250	50150	42207 - 42208 - 42357
		300	50250	42216 - 42227
		350	50350	42258 - 42259
		400	50450	42260 - 42261
	TRA - Frame with safety net	450/500	50550	42307 - 42316 - 42337 - 42308 - 42327 - 42346 - 42347
		250	51150	42207 - 42208 - 42357
		300	51250	42216 - 42227
		350	51350	42258 - 42259
		400	51450	42260 - 42261
		400/500	51550	42307 - 42316 - 42337 - 42308 - 42327 - 42346

CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IRM 30 - Three position single-phase speed controller	12921	42258 - 42260 - 42337 - 42356
	IRT 15 - Three position three-phase speed controller	12923	42227 - 42259 - 42261 - 42346 - 42657
	IRT 35 - Three-phase variable voltage drive	12924	42261 - 42308 - 42327 - 42336 - 42346 - 42347 - 42366
	IREM 3 - 3A Single-phase speed controller	12931	42207 - 42208 - 42216 - 42258 - 42260 - 42316 - 42337 - 42356
	C 1.5 - 1.5A Electronic speed controller	12966	42207 - 42208 - 42216 - 42258
	IREM INVERTER 4 M - Single-phase speed controller with inverter*	12815	42207 - 42208 - 42216 - 42258 - 42260 - 42307 - 42316 - 42337 - 42356
	IRET INVERTER 2.5 M - Three-phase speed controller with inverter*	12816	42357 - 42227 - 42259 - 42261 - 42308 - 42327 - 42346 - 42336 - 42366 - 42347
	POT - Potentiometer	12828	12815 - 12816

* To adjust a regulator with inverter, combine a 0-10V potentiometer as code 12828