



## VORTICEL E RANGE

Low-pressure plate axial fans

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

### Key features

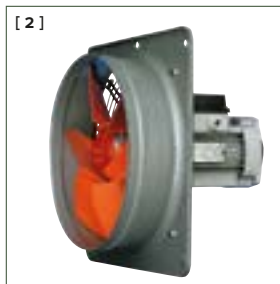
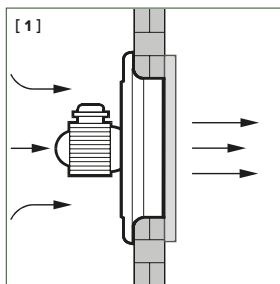
- Robust and weatherproof construction.
- Motors with high (IP44) degree of protection against dust and water.

### Versions

- 7 models, in single and three-phase versions, with 2 and 4 poles, with a nominal diameter between 250 and 350 mm.
- 12 models, in single and three-phase versions, with 2 and 4 poles, with a nominal diameter between 300 and 600 mm, available only for the extra EU market.

### 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, gauged to optimize 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 motors, with shafts turning on ball bearings with double sealing screen, characterized by high (IP44) 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.
- Impellers with 6-fin shaped blades fitted on grooved hubs in die-cast aluminium, dynamically balanced (UNI ISO 1940, Class 6.3), moulded in plastic resin loaded with glass fibres to combine dimensional stability, strength and resistance to aggressive agents.
- Degree of protection against dust and water: IP44.
- Electrical insulation class: I (grounding required).



[1] These devices are suitable for applications that do not require the overcoming of load losses and for the extraction of non-dusty, non-acid or corrosive air.

[2] Side profile

### Note

- The fans of the VORTICEL E range comply with Reg. ErP No. 327/2011/UE.
- The fans of the VORTICEL E range are designed for applications not characterized by high pressure drops and in the absence of significant concentrations of abrasive powders or acid or corrosive substances.



## 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	E 252 M	40203	220-240	95-105	0.45-0.47	2	2800	1500	416.7	20.0	196	71.0	70	3.5
	E 254 M	40303	220-240	55-65	0.31-0.39	4	1400	1000	277.8	6.7	66	50.5	60	3.0
	E 304 M	40503	220-240	55-70	0.33-0.40	4	1400	1360	377.8	7.5	74	54.0	65	3.0
	E 354 M	40703	220-240	85-95	0.44-0.45	4	1400	1850	514.0	4.6	45	66.5	65	4.0
THREE-PHASE	E 254 T	40356	220-380 240-415	55 70	0.35/0.20 0.40/0.23	4	1400	1000	277.8	7.3	71	53.0	55	3.0
	E 304 T	40556	220-380 240-415	65 80	0.32/0.19 0.38/0.22	4	1400	1400	389.0	8.2	81	53.0	50	3.0
	E 354 T	40756	220-380 240-415	90 100	0.34/0.20 0.38/0.22	4	1400	1900	528.0	7.1	70	61.0	60	4.0

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

\*\* Maximum continuous operating temperature of the product.

## AVAILABLE ONLY FOR THE EXTRA EU MARKET

	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	E 302 M	40403	220-240	190-195	0.85-0.90	2	2800	2350	653	31.5	309	66.0	70	3.0
	E 404 M	40903	220-240	190-200	0.90-0.95	4	1400	3150	875	12.0	118	57.0	70	5.0
	E 454 M	41153	220-240	195-210	0.93-0.95	4	1400	3900	1083	9.0	88	66.0	70	7.0
	E 504 M	41219	220-240	200-220	0.90-0.92	4	1400	4500	1250	6.0	59	61.5	70	8.6
	E 604 M	41459	220-240	320-354	1.45-1.45	4	1400	7000	1944	8.2	80	69.0	65	10.0
THREE-PHASE	E 302 T	40456	220-380 240-415	180 200	0.78-0.44 0.40-0.23	2	2800	2400	667	32.5	319	65.0	70	3.0
	E 404 T	40956	220-380 240-415	190 200	0.60-0.35 0.65-0.38	4	1400	3200	889	17.7	174	60.0	70	5.0
	E 454 T	41154	220-380 240-415	230 240	0.69-0.40 0.72-0.42	4	1400	3900	1083	15.0	147	66.0	70	7
	E 504 T	41154	220-380 240-415	235 245	0.74-0.43 0.74-0.43	4	1400	4800	1333	11.7	115	61.5	70	8.6
	E 506 T	41206	220-380 240-415	145 165	0.43-0.25 0.46-0.27	6	1000	3900	1083	6.8	67	56.0	70	8.5
	E 604 T	41457	220-380 240-415	360 380	1.00-0.62 1.00-0.62	4	1400	7700	2139	14.5	142	69.5	70	10.0
	E 606 T	41506	220-380 240-415	145 165	0.44-0.26 0.46-0.27	6	1000	4800	1333	4.7	46	65.0	70	10.0

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

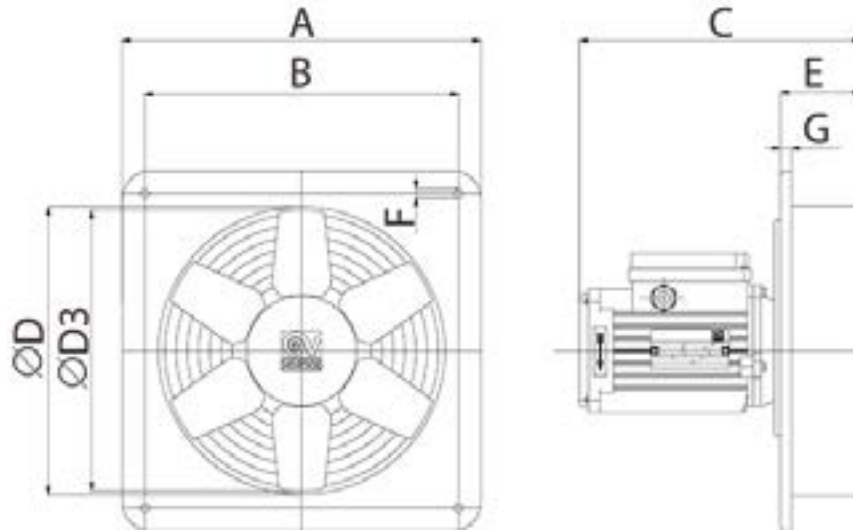
\*\* Maximum continuous operating temperature of the product.



## INDUSTRIAL VENTILATION

### VORTICEL E RANGE

#### DIMENSIONS

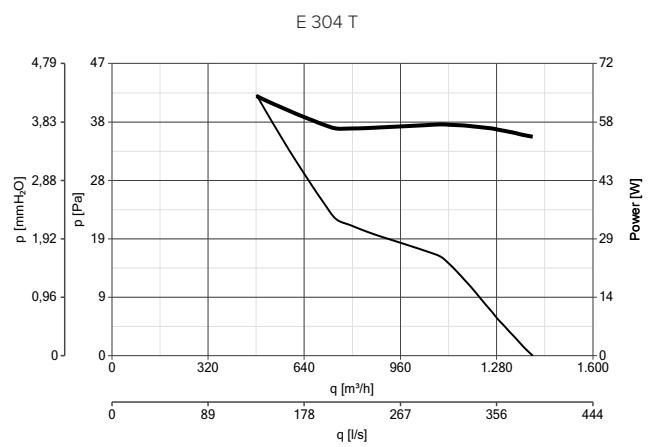
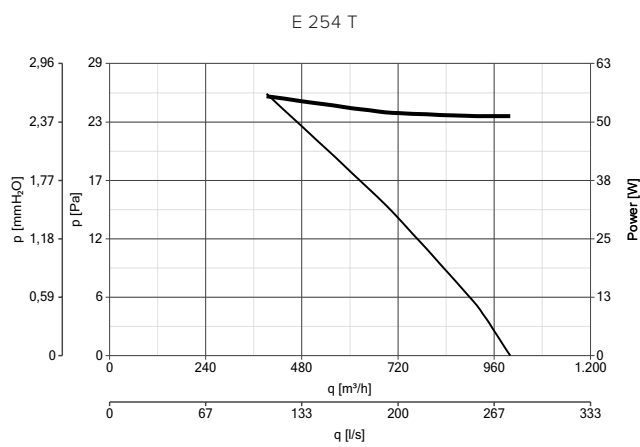
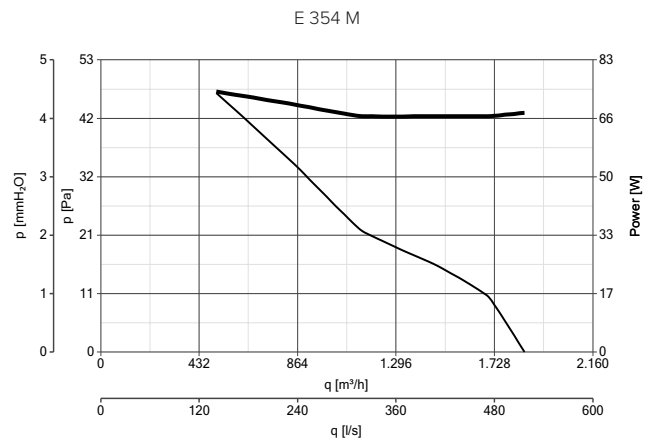
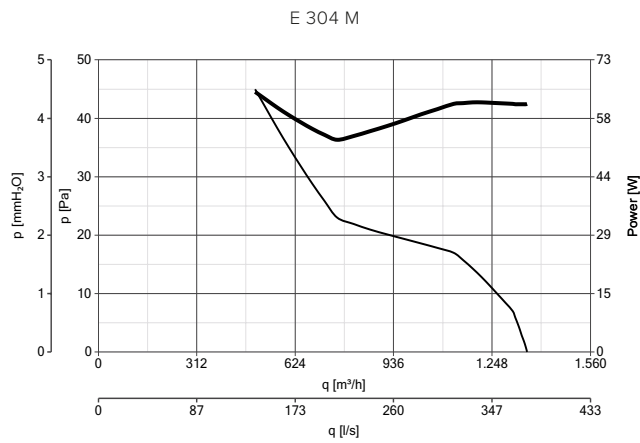
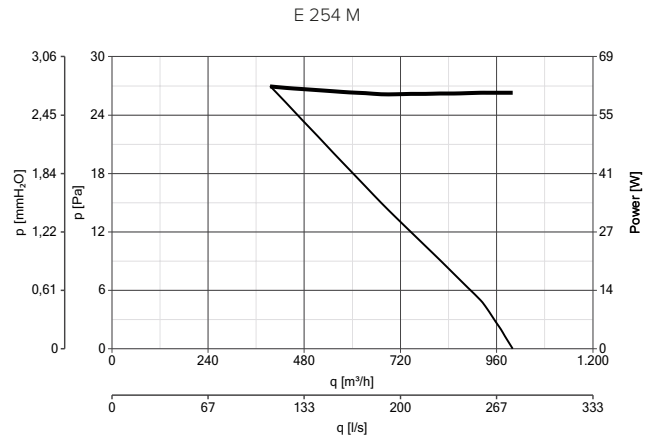
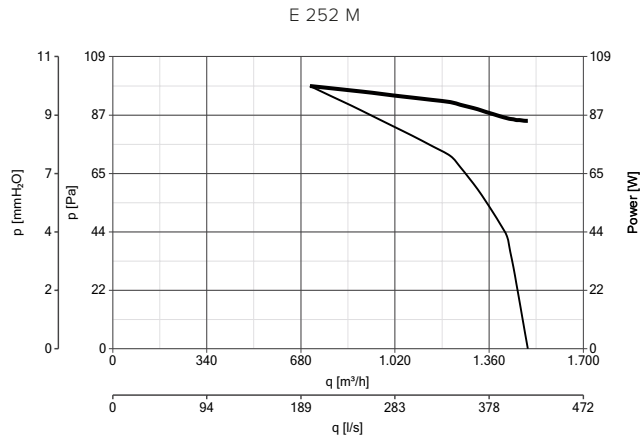


PRODUCTS	A	B	C	ØD	ØD3	E	F	G
E 252 M	320	280	201	256	250	68	8	10
E 254 M	320	280	201	256	250	68	8	10
E 254 T	320	280	201	256	250	68	8	10
E 302 M	380	330	254	308	300	70	8	10
E 302 T	380	330	254	308	300	70	8	10
E 304 M	380	330	203	308	300	70	8	10
E 304 T	380	330	203	308	300	70	8	10
E 354 M	450	380	203	360	350	70	8	10
E 354 T	450	380	203	360	350	70	8	10
E 404 M	510	430	274	410	400	90	12	15
E 404 T	510	430	274	410	400	90	12	15
E 454 M	630	530	269	460	450	85	12	15
E 454 T	630	530	269	460	450	85	12	15
E 504 M	630	530	269	510	500	85	12	15
E 504 T	630	530	269	510	500	85	12	15
E 506 T	630	530	269	510	500	85	12	15
E 604 M	760	630	283	610	600	100	12	15
E 604 T	760	630	283	610	600	100	12	15
E 606 T	760	630	285	610	600	100	12	15

Dimensions (mm)



PERFORMANCE CURVES



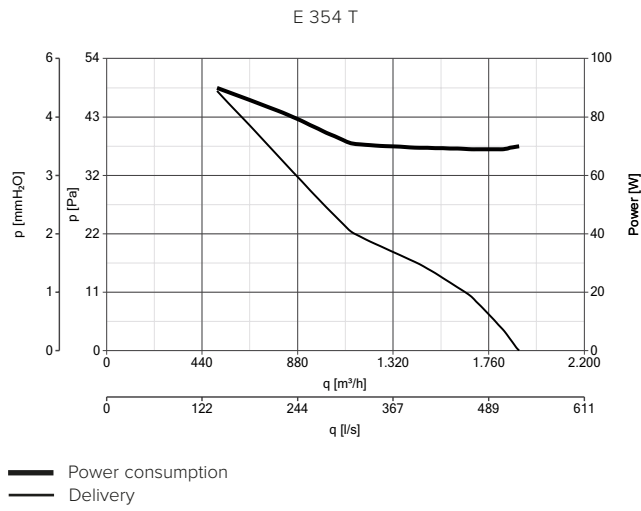
Power consumption  
 Delivery



# INDUSTRIAL VENTILATION

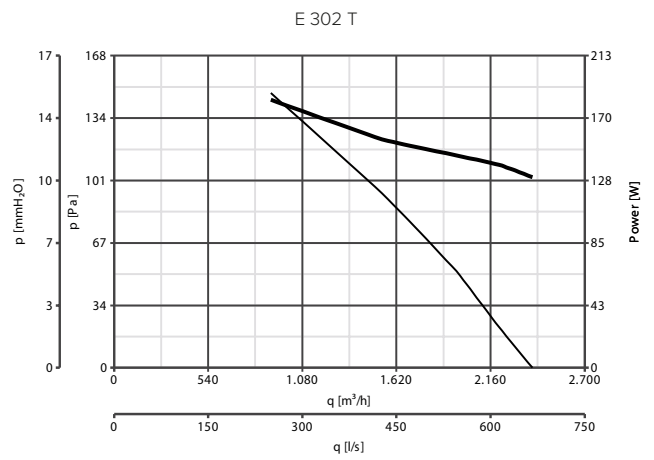
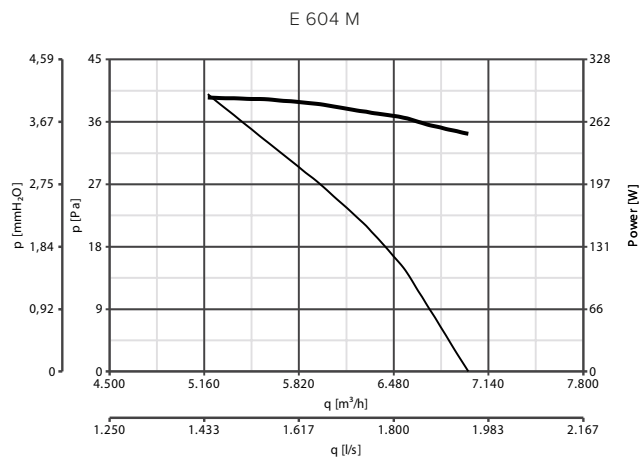
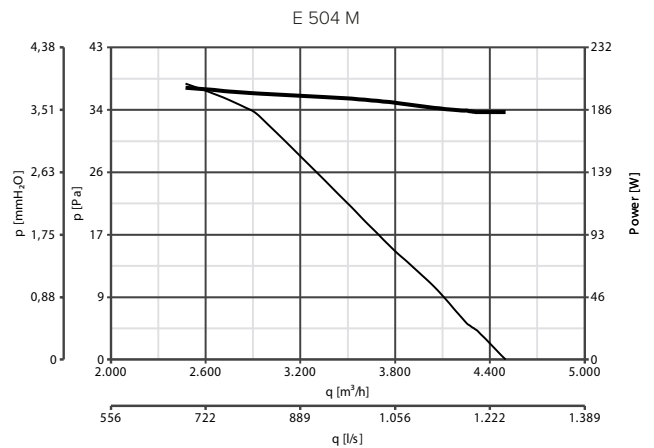
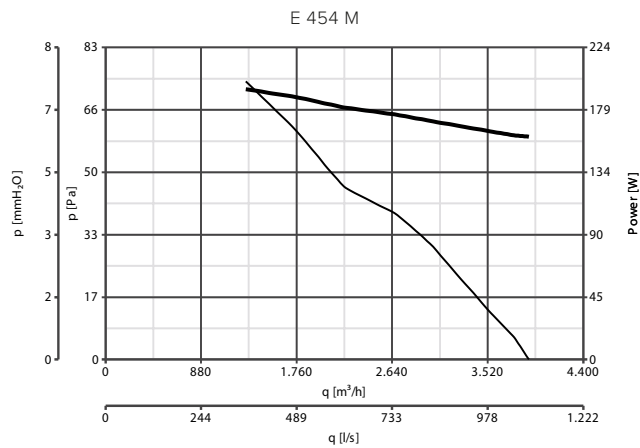
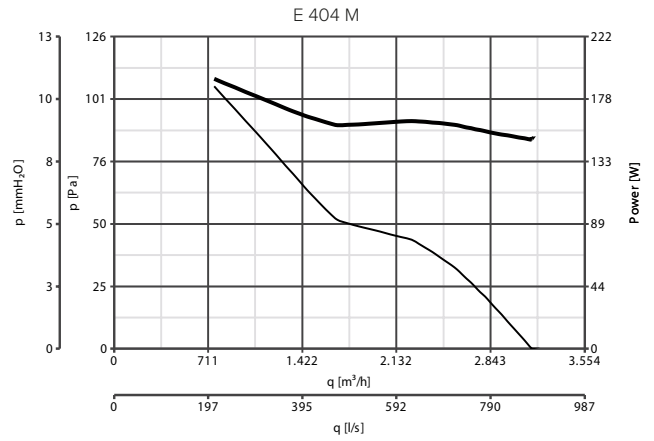
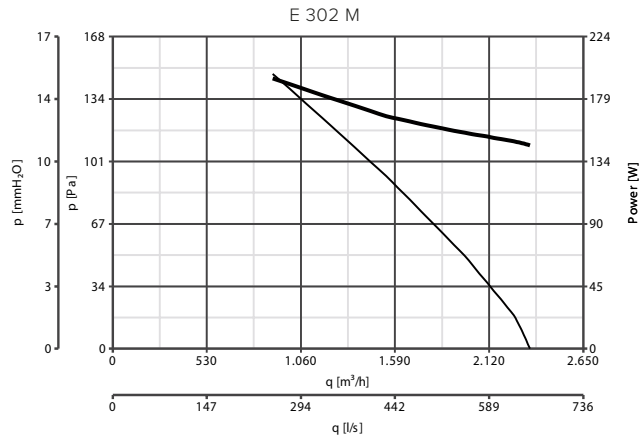
## VORTICEL E RANGE

### PERFORMANCE CURVES





PERFORMANCE CURVES (AVAILABLE ONLY FOR THE EXTRA EU MARKET)

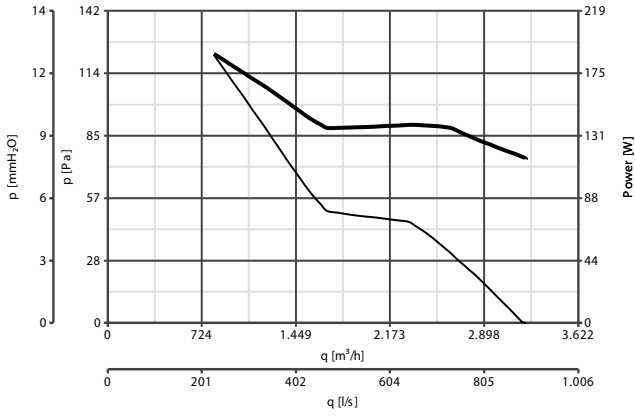


Power consumption  
 Delivery

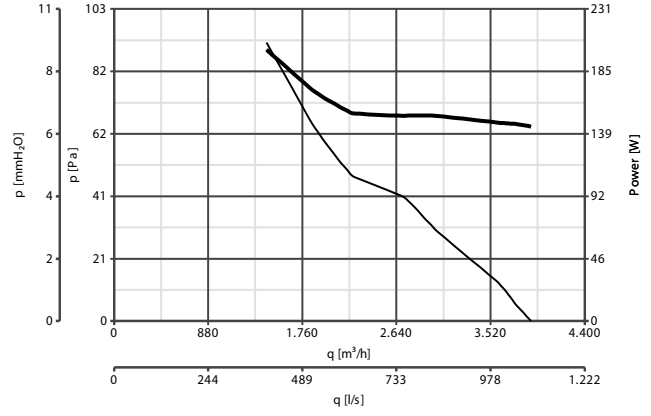


PERFORMANCE CURVES

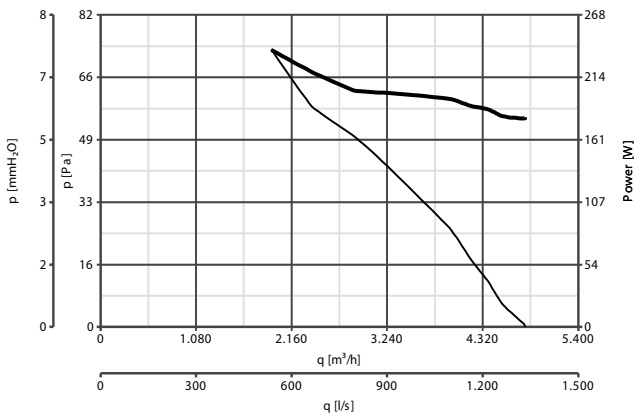
E 404 T



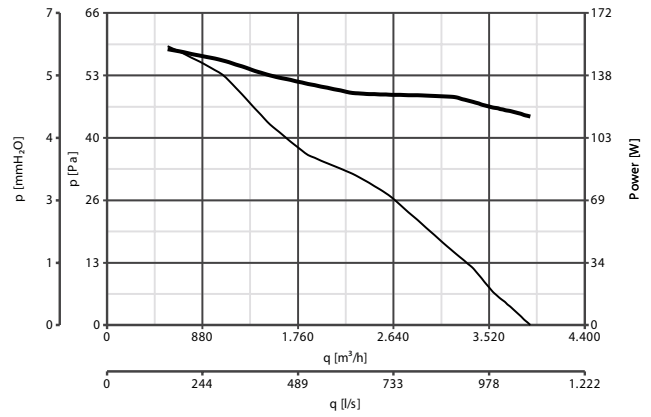
E 454 T



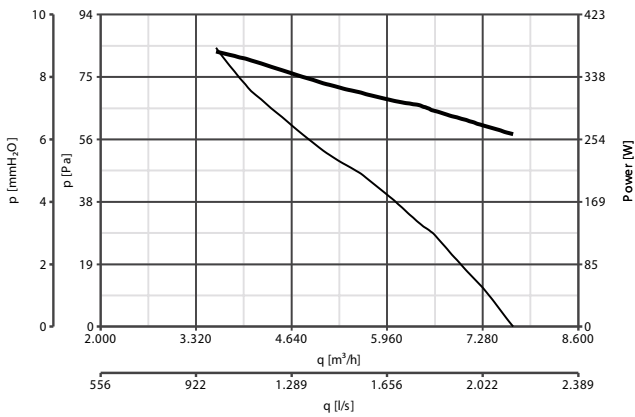
E 504 T



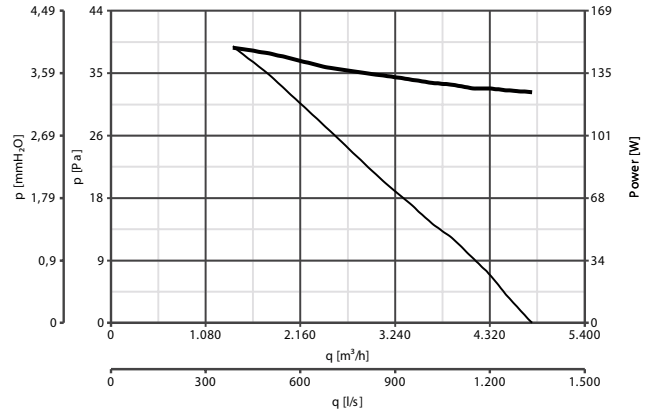
E 506 T



E 604 T






E 606 T







— Power consumption  
— Delivery



ACCESSORIES

MODELS	DESCRIPTION	CODE	PRODUCTS
	DPU - Spacer for panel installation	250	40203 - 40303 - 40356
		300	40503 - 40556 - 40403 - 40456
		350	40703 - 40756
		400	40903 - 40956 - 41154
	PGR - Gravity shutter	250	40203 - 40303 - 40356
		300	40503 - 40556 - 40403
		350	40703 - 40756
	TRA - Frame with safety net	250	40203 - 40303 - 40356
		300	40503 - 40556 - 40403
		350	40703 - 40756

CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IRM 30 - Three position single-phase speed controller	12921	40203 - 40303 - 40503 - 40703 40403 - 40903 - 41153 - 41459
	IRT 15 - Three position three-phase speed controller	12923	40356 - 40556 - 40756 - 40456 - 40956 - 41157 - 41154 - 41206 - 41457 41506
	IREM 3 - 3A Single-phase speed controller	12931	40203 - 40303 - 40503 - 40703 40403 - 40903 - 41153 - 41459
	IREM 5 - 5A Single-phase speed controller *	12932	40203 - 40303 - 40503 - 40703 40403 - 40903 - 41153 - 41459
	IREM 9 - 9A Single-phase speed controller **	12933	40203 - 40303 - 40503 - 40703 40403 - 40903 - 41153 - 41459
	IREM INVERTER 4 M - Single-phase speed controller with inverter***	12815	40203 - 40303 - 40503 - 40703 40403 - 40903 - 41219 - 41459 - 41153
	IRET INVERTER 2.5 M - Three-phase speed controller with inverter***	12816	40356 - 40556 - 40756 - 40456 40956 - 41154 - 41157 - 41206 - 41457 41506
	POT - Potentiometer	12828	12815 - 12816

\*Can control several fans up to a max 5A.

\*\* Intended to simultaneously control appliance, up to a max 9A.

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