



TORRETTE TR-ED RANGE

Centrifugal roof fans with horizontal discharge for hot fumes extraction



Roof-mounted centrifugal fans with radial discharge, designed and certified for hot fume extraction (F400/120), available in different diameters and in single and three-phase versions. In the event of fires, they guarantee safety in civil and industrial environments such as condominiums, gyms, restaurants, offices, theatres, discos, hospitals and factories.

Key features

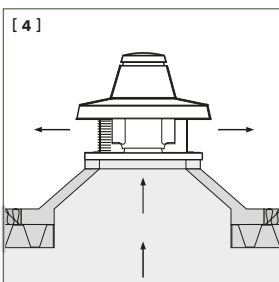
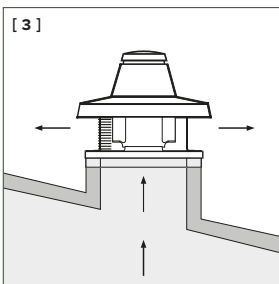
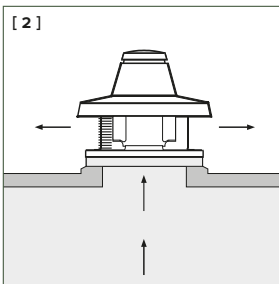
- Full compliance with the EN 12101-3 standard (TUV or APPLUS certification), depending on the model, class F400/120.
- Robust and weatherproof construction.
- Easy installation on a wide range of roof types.

Versions

20 models, in single and three-phase version, with 4, 6 and 8 poles.

Technical features

- Bases made of pickled and phosphated steel sheet, grey epoxy powder-coated with hammered finish.
- Motor cover made of pickled and phosphated steel sheet, polyester powder-coated and furnace-baked, guaranteeing higher long-term resistance to aggressive agents, in grey colour with hammered finish.
- Ventilation ports, fashioned in one piece with the body, characterized by aerodynamic profiles, calibrated to optimize the extracted airflow.
- Safety and anti-bird protective grilles designed in accordance with the UNI ISO 13857 standard, made of electrically welded steel rings with epoxy black paint finish.
- Galvanised steel sheet motor cover plates, designed to divert the flow of air handled, preventing it from striking the drive unit directly and thus protecting it from excessive heat loads.
- Class H single or three-phase asynchronous motors, depending on the model, with shafts turning on ball bearings with double sealing screen, characterized by high (IP55) degree of protection against dust and water and with cooling fans for more effective heat dissipation.
- Starting capacitors of the single-phase models comply with the EN 60252-1 standard and are third-party certified.
- Centrifugal impeller with electrically galvanised steel sheet, self-cleaning, backward-curved blades, dynamically balanced (UNI ISO 1940, Class 6.3), fitted on grooved hubs in die-cast aluminium.
- Metal cable gland for connection to the mains, guaranteeing adequate resistance to high temperatures.
- Steel eye-bolts for lifting and transport, protected from corrosion by galvanic treatment.
- Steel cables for secure anchoring of the product to the destination surfaces supplied as standard.



[1] [2] [3] [4] Robust construction. These devices are easily installed on top of each roof. The air must not be dusty, acidic or corrosive. Not suitable for installation in ducts placed directly over chimneys or burners.

Note

- In European Community countries and in those that have implemented Reg. ErP No. 327/2011, the towers of the torrette TR ED range can only be used as safety equipment operating at maximum speed for the evacuation of hot fumes (class F400/120).
- In countries that are not part of the European Community or in those that have not implemented Reg. Erp No. 327/2011, the towers of the torrette TR ED range can be for uses other than the evacuation of hot fumes in the case of fire; as such, their speed is adjustable by Vortice controllers. For these uses, the continuous operating environmental temperature is between -25°C and + 90°C.
- The towers of the torrette TR ED range are not suitable for handling flows characterized by significant concentrations of abrasive dust or acid or corrosive substances.
- The towers of the torrette TR ED range are not suitable for installation at the end of ducts positioned directly above fireplaces or burners.





INDUSTRIAL VENTILATION

TORRETTE TR-ED RANGE

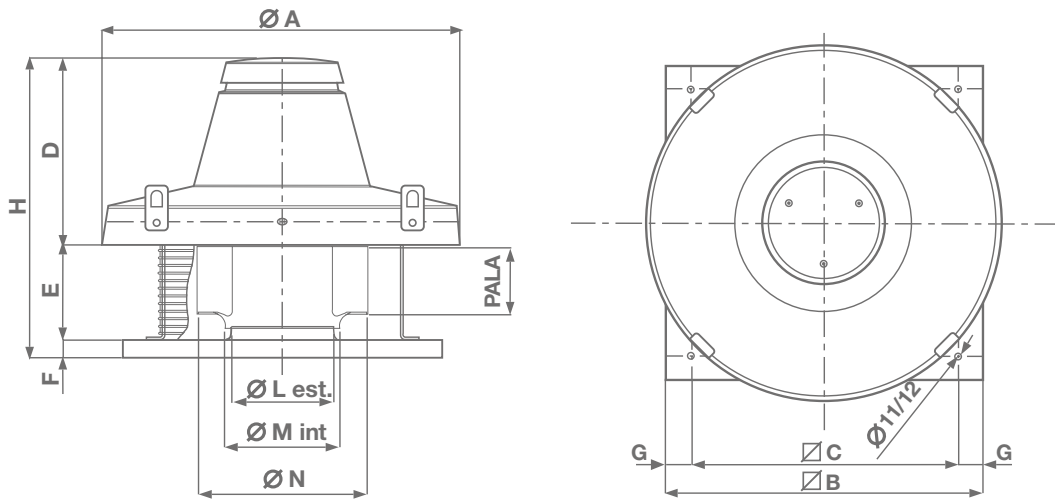
TECHNICAL DATA

	PRODUCTS	CODE	V~50HZ	W	A	POLES	RPM	MAX AIRFLOW		MAX PRESSURE		Lp dB(A) 3 m	MAX °C*	KG
								m³/h	l/s	mmH ₂ O	Pa			
SINGLE-PHASE	TRM 10 ED 4P	15039	220-240	110	0.46	4	1395	1000	278	20	196	56	400 °C/2H	18.5
	TRM 15 ED 4P	15041	220-240	140	0.60	4	1315	1400	389	24	235	58.5	400 °C/2H	19
	TRM 20 ED 4P	15043	220-240	280	1.30	4	1375	2200	611	34	334	62	400 °C/2H	33
	TRM 30 ED 4P	15046	220-240	400	1.80	4	1285	3100	861	40	392	67	400 °C/2H	35
	TRM 50 ED 4P	15048	220-240	800	3.70	4	1290	4500	1250	52	510	72.5	400 °C/2H	40
	TRM 70 ED 4P	15080	220-240	1000	4.35	4	1415	5800	1611	65	638	77	400 °C/2H	80
	TRT 10 ED 4P	15040	380-415	72 100	0.13 0.24	4	1270 1430	890 1100	247 306	17 21	167 206	56	400 °C/2H	18.5
TRT 15 ED 4P	15042	380-415	93 130	0.16 0.27	4	1150 1400	1100 1400	306 389	16 24	157 235	58.5	400 °C/2H	19	
TRT 20 ED 4P	15045	380-415	208 270	0.32 0.53	4	1050 1400	1800 2200	500 611	24 34	235 334	62	400 °C/2H	33	
TRT 30 ED 4P	15047	380-415	305 420	0.48 0.75	4	1070 1400	2555 3100	710 861	30 43	294 422	67	400 °C/2H	35	
TRT 50 ED 4P	15049	380-415	530 690	0.80 1.20	4	1150 1400	3800 4500	1056 1250	38 52	373 510	72.5	400 °C/2H	40	
TRT 70 ED 4P	15081	380-415	820 1090	1.50 2.00	4	1150 1400	5300 6000	1472 1667	52 67	510 657	77	400 °C/2H	78	
TRT 70 ED 6P	15082	380-415	420 580	0.80 1.30	6	750 950	5300 6000	1472 1667	30 38	294 373	74	400 °C/2H	81	
TRT 100 ED 4P	15083	380-415	1400 1950	2.30 4.90	4	1200 1400	8300 9100	2306 2528	72 84	706 824	84	400 °C/2H	81.5	
TRT 100 ED 6P	15084	380-415	900 1130	1.40 2.40	6	730 950	7550 8600	2097 2389	38 47	373 461	77	400 °C/2H	114	
TRT 100 ED 8P	15085	380-415	600 860	1.20 2.00	8	570 715	8200 9200	2278 2556	28 34	275 334	71	400 °C/2H	124	
TRT 150 ED 6P	15086	380-415	1280 1930	2.40 3.50	6	700 930	11000 12800	3056 3556	42 59	412 579	80	400 °C/2H	125	
TRT 150 ED 8P	15087	380-415	1000 1500	2.00 3.00	8	610 715	11600 13500	3222 3750	34 42	334 412	74	400 °C/2H	129	
TRT 180 ED 6P	15919	380-415	3200	6.11	6	950	16500	4583	79	775	83	400 °C/2H	127	
TRT 210 ED 6P	15920	380-415	3460	6.42	6	950	18000	5000	80	785	84	400 °C/2H	129	

* Maximum continuous operating temperature of the product



DIMENSIONS



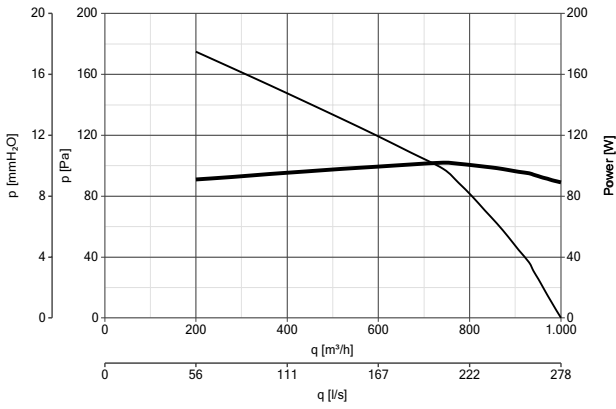
PRODUCTS	IMPELLER	ØA	ØB	ØC	D	E	F	G	H	ØL	ØM	ØN	BLADE
TR 10 ED 4P	280x101.5	600	410	357	309	166	38	26.5	513	183	187.5	284	101.5
TR 15 ED 4P	315x101.5	600	410	500	309	166	38	26.5	513	206	211	319	101.5
TR 20 ED 4P	355x125	780	550	500	397	226	38	25	661	231	236.5	359	125
TR 30 ED 4P	400x140	780	550	500	397	226	38	25	661	260	265.5	404	140
TR 50 ED 4P	450x160	780	550	750	397	243	38	40	678	292	298	454	160
TR 70 ED 4P	500x160	1015	830	750	449	283	38	40	770	328	335	504	160
TR 70 ED 6P	560x180	1015	830	750	449	283	38	40	770	365	375	562	180
TR 100 ED 4P	560x180	1015	830	900	449	283	38	40	770	365	375	562	180
TR 100 ED 6P	630x224	1165	980	900	605	383	38	40	1026	415	421	635	224
TR 100 ED 8P	710x224	1165	980	900	605	383	38	40	1026	465	472	715	224
TR 150 ED 6P	710x250	1165	980	900	605	383	38	40	1026	465	472	715	250
TR 150 ED 8P	800x250	1165	980	900	605	383	38	40	1026	520	529	805	250
TR 180 ED 6P	800x224	1165	980	900	605	383	38	40	1026	520	529	805	224
TR 210 ED 6P	800x250	1165	980	900	605	383	38	40	1026	520	529	805	250

Dimensions (mm)

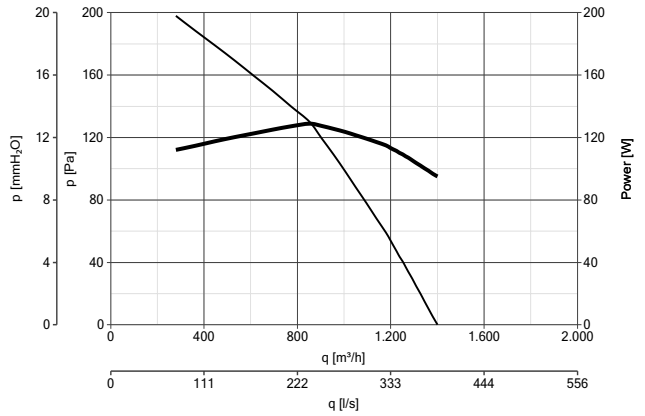


PERFORMANCE CURVES

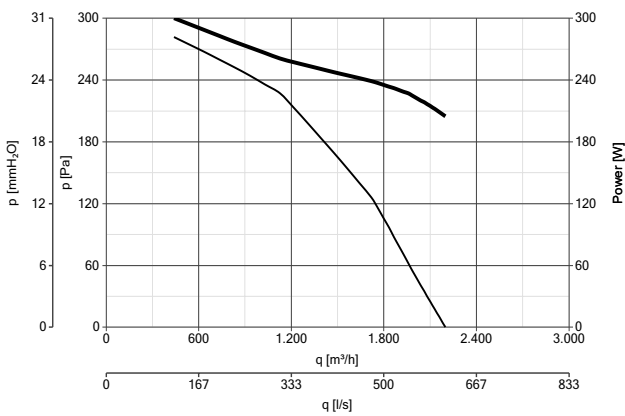
TRM 10 ED 4P



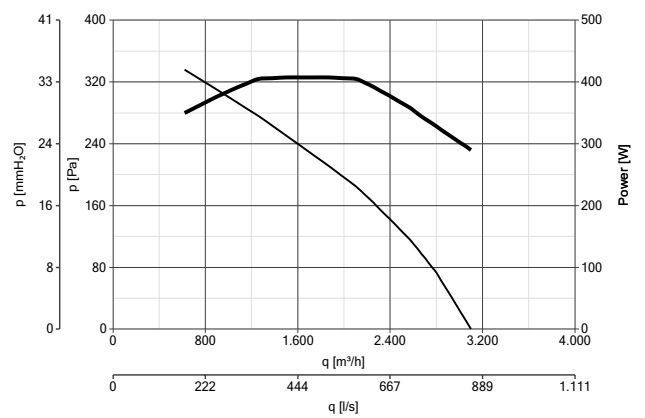
TRM 15 ED 4P



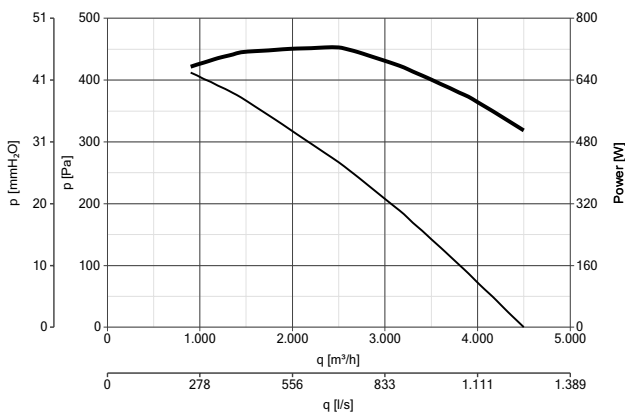
TRM 20 ED 4P



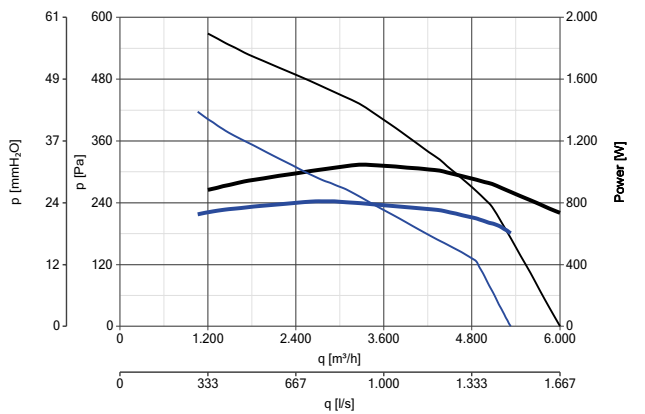
TRM 30 ED 4P



TRM 50 ED 4P



TRM 70 ED 4P

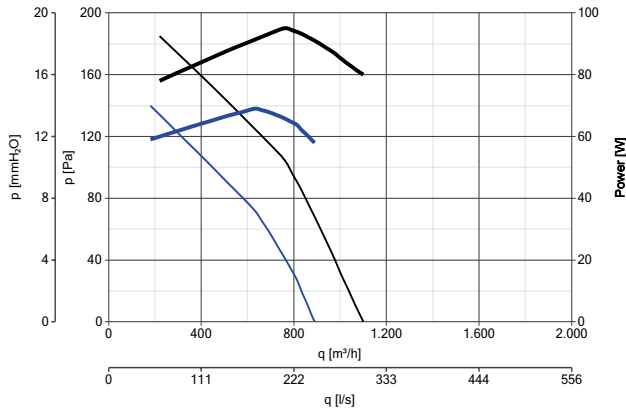


Power consumption
 Delivery

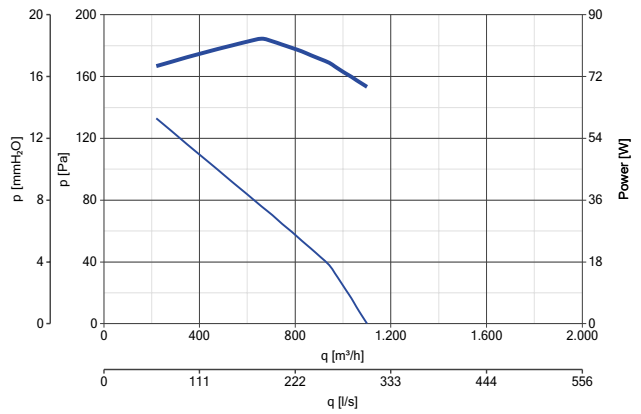


PERFORMANCE CURVES

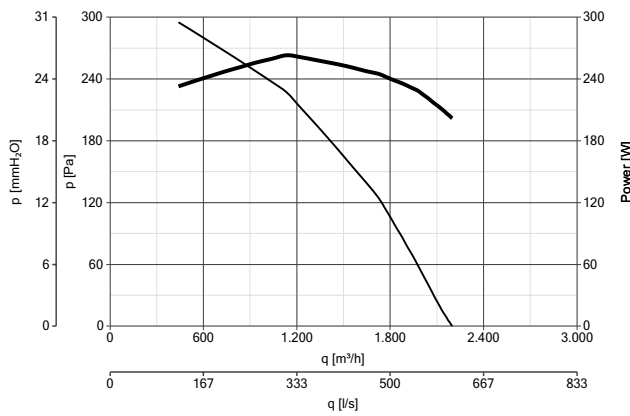
TRT 10 ED 4P



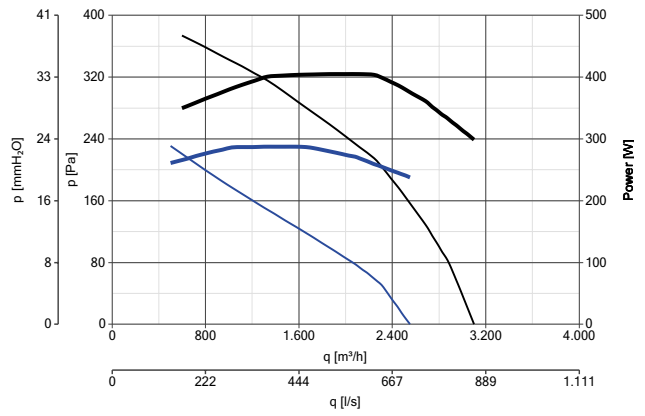
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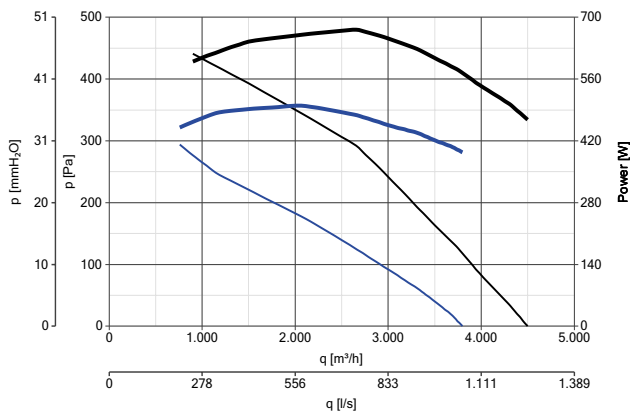
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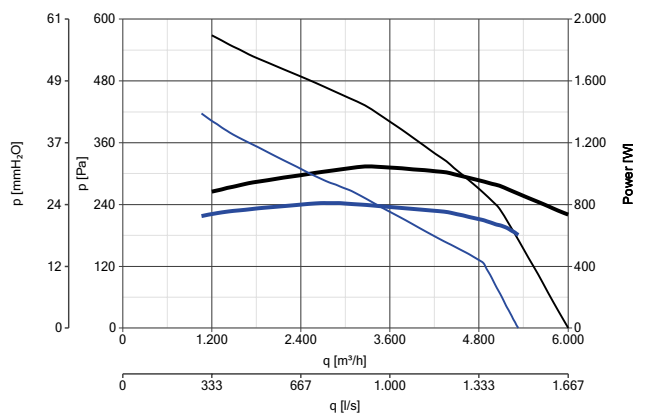
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TRT 50 ED 4P



TRT 70 ED 4P

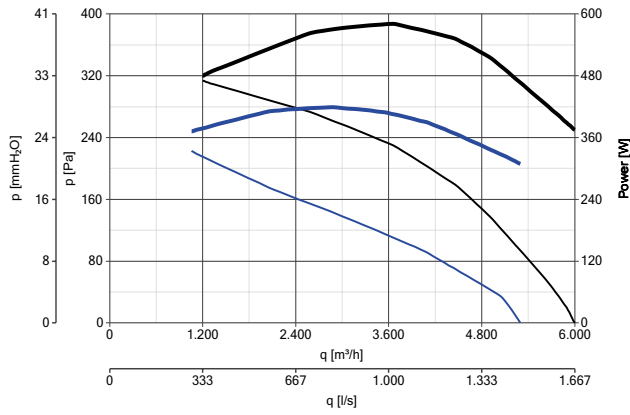


- Power consumption - max vel.
- Delivery - max vel.
- Power consumption - min vel.
- Delivery - min vel.

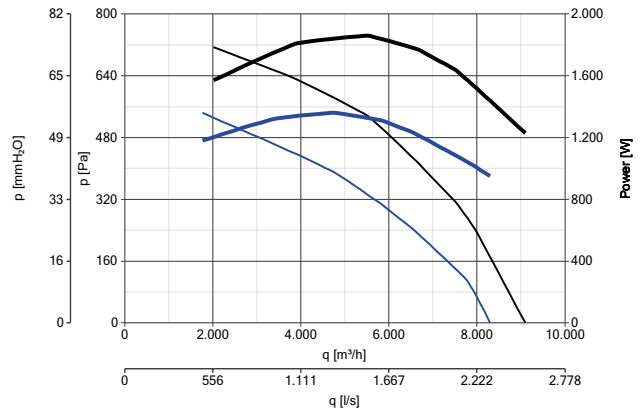


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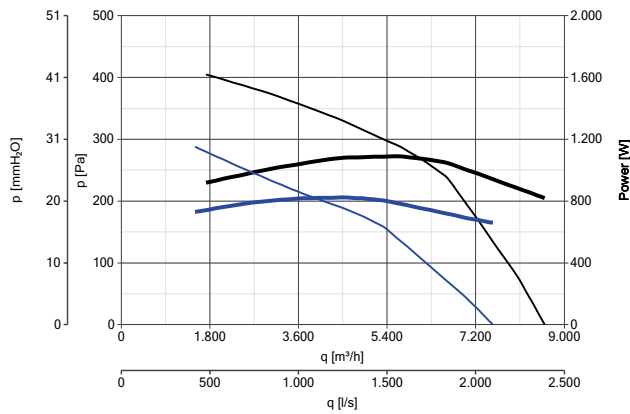
TRT 70 ED 6P



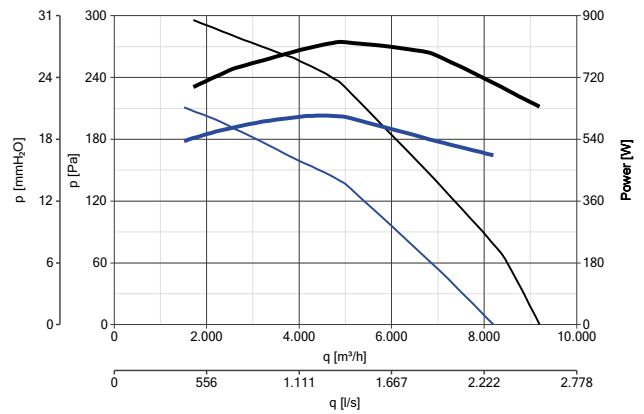
TRT 100 ED 4P



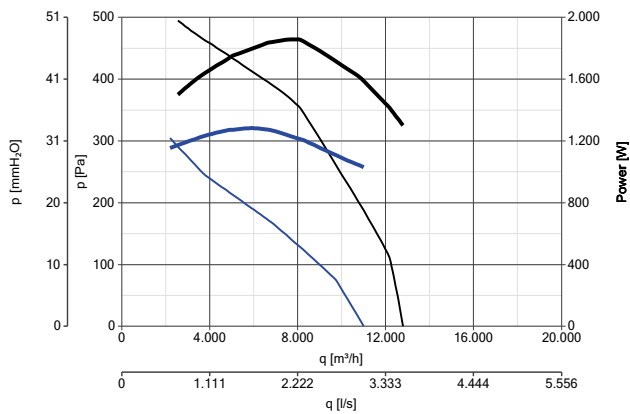
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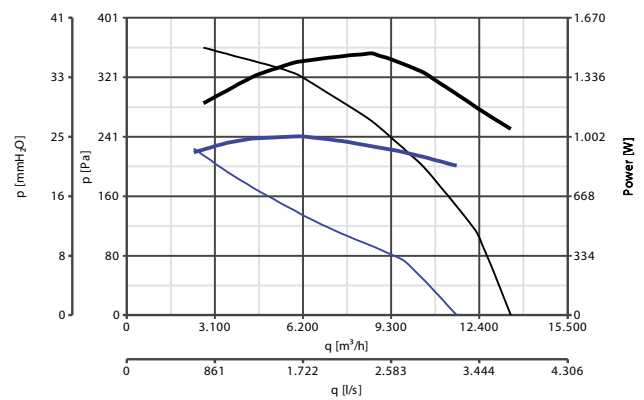
TRT 100 ED 8P



TRT 150 ED 6P



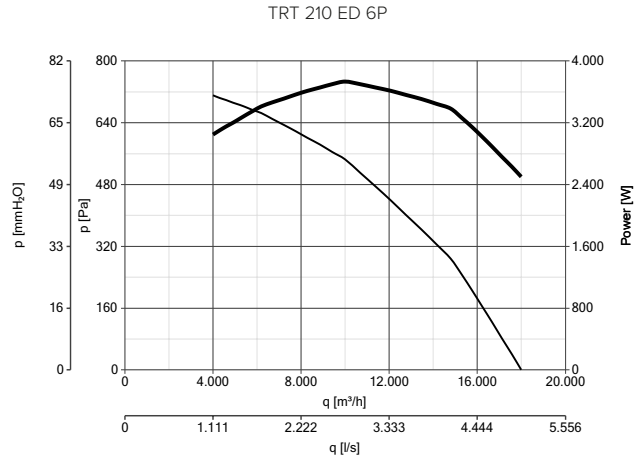
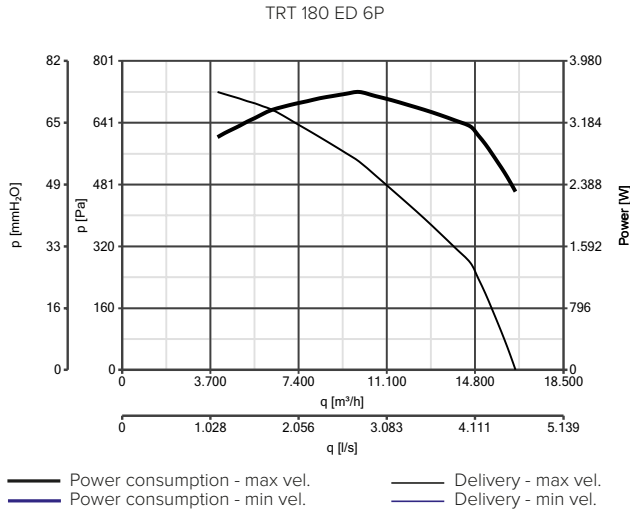
TRT 150 ED 8P



- Power consumption - max vel.
- Power consumption - min vel.
- Delivery - max vel.
- Delivery - min vel.



PERFORMANCE CURVES



ACCESSORIES







MODELS	DESCRIPTION	CODE	PRODUCTS
		10/15 22511	15039 - 15040 - 15041 - 15042
	TR-CU - Sub-frame	20/30/50 22512	15043 - 15045 - 15046 - 15047 - 15048 - 15049
		70/100 22539	15080 - 15081 - 15082 - 15083
		100/150/180/210 22540	15084 - 15085 - 15086 - 15087 - 15919 - 15920
		10/15 22700	15039 - 15040 - 15041 - 15042
	TR-G - Intake port protection grille	20/30/50 22710	15043 - 15045 - 15046 - 15047 - 15048 - 15049
		70/100 22506	15080 - 15081 - 15082 - 15083
		100/150/180/210 22507	15084 - 15085 - 15086 - 15087 - 15919 - 15920



INDUSTRIAL VENTILATION

TORRETTE TR-ED RANGE

CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	GV2 ME03 - Thermal-magnetic motor circuit breakers	21112	15042 - 15045
	GV2 ME05 - Thermal-magnetic motor circuit breakers	21113	15039 - 15045 - 15047
	GV2 ME05 - Thermal-magnetic motor circuit breakers	21114	15041 - 15046 - 15047 - 15049 - 15082
	GV2 ME06 - Thermal-magnetic motor circuit breakers	21115	15043 - 15049 - 15081 - 15082 - 15084
	GV2 ME07 - Thermal-magnetic motor circuit breakers	21436	15081 - 15083 - 15084 - 15085 - 15086 - 15087
	IRM 30 - Three position single-phase speed controller	12921	15039 - 15041
	IRM 40 - Three position single-phase speed controller	12922	15043 - 15046
	IRM 50 - Three position single-phase speed controller	12928	15048
	IRT 15 - Three position single-phase speed controller	12923	15040 - 15042 - 15045
	IRT 35 - Three position single-phase speed controller	12924	15047 - 15049 - 15082 - 15085
	IRT 40 - Three position single-phase speed controller	12927	15084 - 15087
	IREM 3 - Single-phase speed controller 3A	12931	15039 - 15041 - 15043 - 15046
	IREM 5 - Single-phase speed controller 5A*	12932	15048
	IREM 9 - Single-phase speed controller 9A**	12933	15080
	IRET 6 - Three-phase speed controller 6A	12934	15081 - 15082 - 15083 - 15084 - 15085 - 15086 - 15087
	IREM INVERTER 4 M - Single-phase speed controller INVERTER***	12815	15039 - 15041 - 15043 - 15046 - 15048
	IREM INVERTER 6 M - Single-phase speed controller INVERTER***	12818	15080
	IRET INVERTER 2.5 M - Three-phase speed controller INVERTER***	12816	15040 - 15042 - 15045 - 15047 - 15049 - 15081 - 15082 - 15085
	IRET INVERTER 5 M - Three-phase speed controller INVERTER***	12817	15084 - 15086 - 15087
	IRET INVERTER 8 M - Three-phase speed controller INVERTER***	12821	15083 - 15919 - 15920
	POT - Potentiometer	12828	12815 - 12816 - 12817 - 12818
	TR-CVT - Potentiometer	22910	15040 - 15042 - 15045 - 15047 - 15049 - 15081 - 15082 - 15083 - 15084 - 15085 - 15086 - 15087 - 15919 - 15920

Use in conjunction with appliances having speed selectors or controllers is not permitted in countries implementing European regulation 327/2011/EU

* Can control multiple fans up to a maximum 5A.

** Used for simultaneous control of multiple appliances up to a maximum 9A.

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