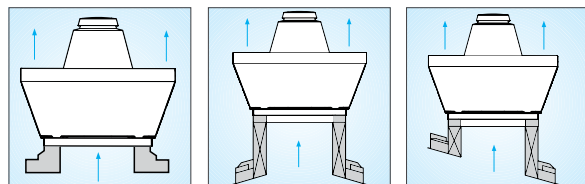




# TORRETTE TR E-V RANGE

Centrifugal roof fans with vertical discharge



**Suitable for residential and industrial applications as factories, hospitals, nightclubs, offices, theatres, apartment blocks, gyms, restaurants, etc...**

**Easy to install on top of all roofs.**

- **20 models: 6 single-phase and 14 three-phase.**
- Vertical air extraction with polyester painted, galvanised steel reinforcements.
- Metal frames coated in corrosion-proof epoxy resin to assure long life and weather resistance.
- Aerodynamic suction nozzles in polyester painted steel sheet.
- All models fitted with steel bird guards.
- Asynchronous induction motors, standard size UNELMEC B5, self-ventilated, with rotors mounted on ball bearings.
- Galvanised steel sheet fans with self cleaning, backward curved blades, self-ventilating, die cast aluminium hubs, clockwise rotation (intake view).
- Single phase models can be controlled by an optional speed controller. Alternatively they can be controlled by means of optional inverters.
- Max airflow up to 18.000 m<sup>3</sup>/h.
- Motor insulation class H for models 15182, 15190, 15193, 15195, 15196; F for all other models.
- Protection rating: IP55.
- Insulation class: I. ⚡

Wiring diagrams shown from page 458

## TECHNICAL DATA

	Models	Code	W	A	POLES	RPM	Max Airflow		Max Pressure		Lp dB(A)* 3 m	Max °C
							m <sup>3</sup> /h	l/s	mmH <sub>2</sub> O	Pa		
Single-phase	TRM 10 E-V 4P	15180	100	0.50	4	1400	1100	306	22	216	56	90
	TRM 15 E-V 4P	15182	150	0.70	4	1400	1400	389	26	255	58.5	80
	TRM 20 E-V 4P	15197	280	1.30	4	1415	2600	722	36	353	62	85
	TRM 30 E-V 4P	15198	400	1.80	4	1425	3300	917	44	432	67	70
	TRM 50 E-V 4P	15199	800	3.70	4	1480	4800	1333	55	540	72.5	80
	TRM 70 E 4P	15188	1000	4.35	4	1415	6400	1778	67.5	662	77	90
Three-phase	TRT 10 E-V 4P	15181	100	0.30	4	1400	1100	306	22	216	56	90
	TRT 15 E-V 4P	15183	150	0.30	4	1400	1400	389	26	255	58.5	90
	TRT 20 E-V 4P	15184	300	0.60	4	1400	2700	750	35	343	62	90
	TRT 30 E-V 4P	15185	400	0.75	4	1400	3200	889	46	451	67	90
	TRT 50 E-V 4P	15186	800	1.45	4	1400	4900	1361	61	598	72.5	90
	TRT 70 E-V 4P	15187	950	1.85	4	1440	6400	1778	69	674	77	90
	TRT 70 E-V 6P	15189	600	1.30	6	950	7000	1944	38	373	74	90
	TRT 100 E-V 4P	15190	1900	3.25	4	1420	10000	2778	84.5	830	84	70
	TRT 100 E-V 6P	15191	1100	2.30	6	950	10800	3000	48	471	77	85
	TRT 100 E-V 8P	15192	930	2.10	8	715	11000	3056	34	334	71	80
	TRT 150 E-V 6P	15193	1930	3.45	6	930	15000	4167	61	598	80	80
	TRT 150 E-V 8P	15194	1600	3.10	8	715	15000	4167	45	441	74	75
	TRT 180 E-V 6P	15195	3100	5.95	6	970	16000	4444	79	775	83	80
	TRT 210 E-V 6P	15196	3400	6.40	6	980	18000	5000	79	775	84	70

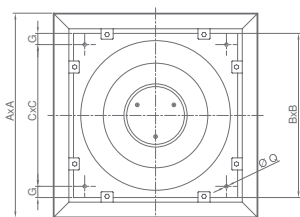
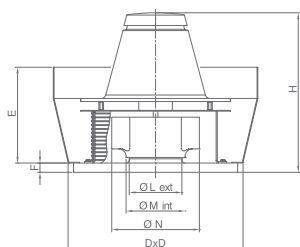
\* The sound pressure values conform to standard ISO 3744.

The appliances are designed so that they are able to operate at an air temperature more than 65°C.

Electric supply: 230 V ~ 50 Hz (Single-phase)  
400 V ~ 50 Hz (Three-phase).








## DIMENSIONS



Models	Ø A	ØB	ØC	D	E	F	G	H	Ø L	Ø M	Ø N	Ø Q	Kg
TRM 10 E-V 4P	652	410	357	440	328	38	26.5	502	170	187.5	283	11	23
TRM 15 E-V 4P									182	199	315		24
TRM 20 E-V 4P	907	550	500	580	432		25	586	219	236.5	359		43
TRM 30 E-V 4P								604	244	265.5	404		45
TRM 50 E-V 4P								631	278	298	454		51
TRM 70 E 4P	1144	830	750	860	491		40	723	328	335	504	12	105
TRT 10 E-V 4P	652	410	357	440	328		26.5	502	170	187.5	283	11	23
TRT 15 E-V 4P								502	182	199	315		24
TRT 20 E-V 4P	907	550	500	580	432		25	586	219	236.5	359		43
TRT 30 E-V 4P								604	244	265.5	404		45
TRT 50 E-V 4P								631	278	298	454		51
TRT 70 E-V 4P	1144	830	750	860	491		723		328	335	504	12	103
TRT 70 E-V 6P								365	375	564	106		
TRT 100 E-V 4P										504	107		
TRT 100 E-V 6P	1462	980	900	1010	595		40	903	415	421	635		161
TRT 100 E-V 8P									465	472	715		171
TRT 150 E-V 6P													172
TRT 150 E-V 8P													176
TRT 180 E-V 6P									520	529	805		176
TRT 210 E-V 6P													180

Dimensions (mm)





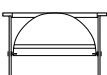
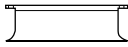

## PRODUCT ACCESSORIES

Models		Code	Product																			
			TRM 10 E-V 4P code15180	TRM 15 E-V 4P code15182	TRM 20 E-V 4P code15197	TRM 30 E-V 4P code15198	TRM 50 E-V 4P code15199	TRM 70 E-V 4P code15188	TRT 10 E-V 4P code15181	TRT 15 E-V 4P code15183	TRT 20 E-V 4P code15184	TRT 30 E-V 4P code15185	TRT 50 E-V 4P code15186	TRT 70 E-V 4P code15187	TRT 70 E-V 6P code15189	TRT 100 E-V 4P code15190	TRT 100 E-V 6P code15191	TRT 100 E-V 8P code15192	TRT 150 E-V 6P code15193	TRT 150 E-V 8P code15194	TRT 180 E-V 6P code15195	TRT 210 E-V 6P code15196
	IRM 30 Three position single-phase speed controller	12921	●	●																		
	IRM 40 Three position single-phase speed controller	12922			●	●																
	IRM 50 Three position single-phase speed controller	12928					●															
	IRT 15 Three position three-phase speed controller	12923							●	●	●											
	IRT 35 Three position three-phase speed controller	12924										●	●		●			●				
	IRT 40 Three position three-phase speed controller	12927												●		●	●		●	●		
	IREM 3 Single-phase speed controller	12931	●	●	●	●																
	IREM 5* Single-phase speed controller	12932	●	●			●	●														
	IREM 9** Single-phase speed controller	12933	●	●				●														
	IRET 6 Three-phase speed controller	12934												●	●		●	●	●	●		

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

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

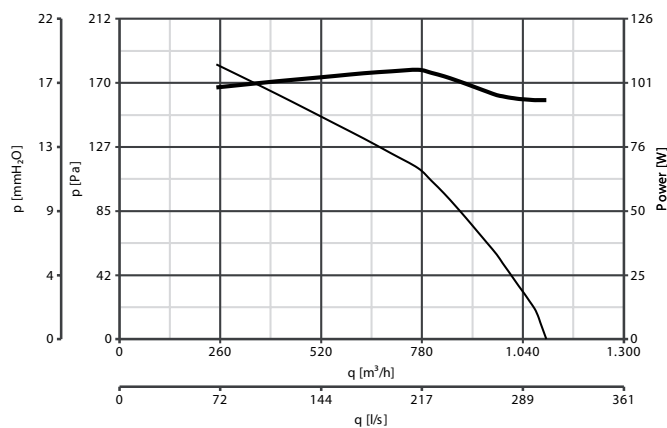


Models		Code	Product																			
			TRM 10 E-V 4P code15180	TRM 15 E-V 4P code15182	TRM 20 E-V 4P code15197	TRM 30 E-V 4P code15198	TRM 50 E-V 4P code15199	TRM 70 E-V 4P code15188	TRT 10 E-V 4P code15181	TRT 15 E-V 4P code15183	TRT 20 E-V 4P code15184	TRT 30 E-V 4P code15185	TRT 50 E-V 4P code15186	TRT 70 E-V 4P code15187	TRT 70 E-V 6P code15189	TRT 100 E-V 4P code15190	TRT 100 E-V 6P code15191	TRT 100 E-V 8P code15192	TRT 150 E-V 6P code15193	TRT 150 E-V 8P code15194	TRT 180 E-V 6P code15195	TRT 210 E-V 6P code15196
	IRET INVERTER 1.2 Three-phase speed controller INVERTER	12909							•	•	•	•										
	IRET INVERTER 2.2 Three-phase speed controller INVERTER	12925											•	•	•		•	•				
	IRET INVERTER 5 Three-phase speed controller INVERTER	12947														•			•	•		
	IRET INVERTER 8 Three-phase speed controller INVERTER	12989																			•	•
	IREM INVERTER 1.4 Single-phase speed controller INVERTER	12935							•	•	•	•										
	IREM INVERTER 4.2 Single-phase speed controller INVERTER	12936											•	•	•		•	•				
	IREM INVERTER 7 Single-phase speed controller INVERTER	12937														•			•	•		
	C 1.5 Speed controller	12966	•	•																		
	TR-CU 10/15 Sub-frame	22511	•	•					•	•												
	TR-CU 20/30/50 Sub-frame	22512			•	•	•				•	•	•									
	TR-CU 70/100 Sub-frame	22539						•							•	•	•					
	TR-CU 100/150-6P/8P Sub-frame	22540															•	•	•	•	•	•
	TR-S 10/15 Backdraught shutter	22500	•	•					•	•												
	TR-S 20/30/50 Backdraught shutter	22510			•	•	•				•	•	•									
	TR-S 70/100 4P Backdraught shutter	22541						•						•	•	•						
	TR-S 100 6P-8P/150/180/210 Backdraught shutter	22542															•	•	•	•	•	•
	TR-B 10/15 Suction connector	22600	•	•					•	•												
	TR-B 20/30/50 Suction connector	22610			•	•	•				•	•	•									
	TR-B 70/100 4P Suction connector	22508						•						•	•	•						
	TR-B 100 6P-8P/150/180/210 Intake port protection grille	22509															•	•	•	•	•	•
	TR-G 10/15 Intake port protection grille	22700	•	•					•	•												
	TR-G 20/30/50 Intake port protection grille	22710			•	•	•				•	•	•									
	TR-G 70/10 Intake port protection grille	22506						•						•	•	•						
	TR-G 100/150-6P/8P Intake port protection grille	22507															•	•	•	•	•	•

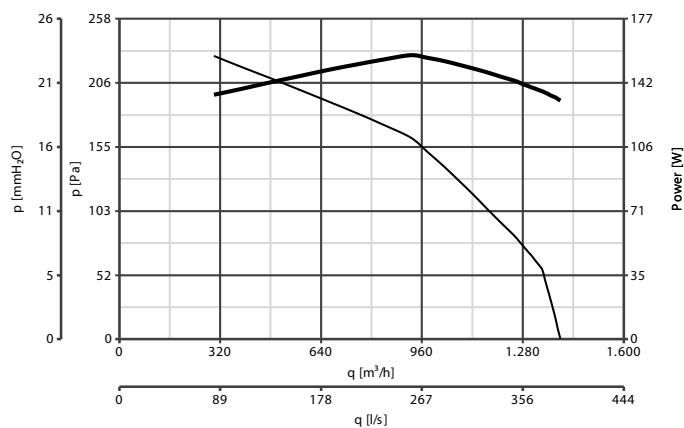
Description and sizes on page 325; System components on page 300.

## PERFORMANCE CURVES

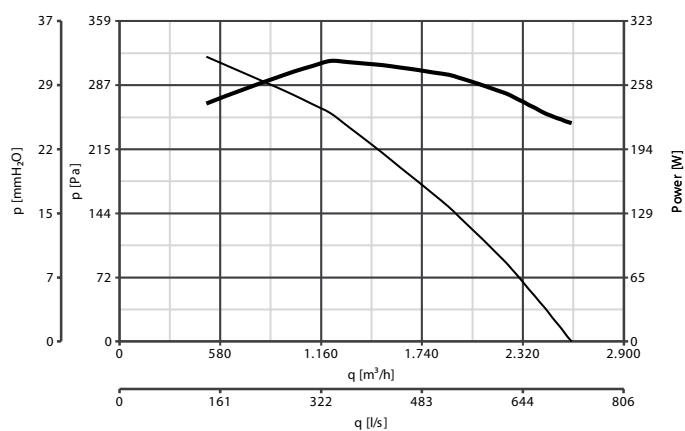
TRM 10 E-V 4P code 15180



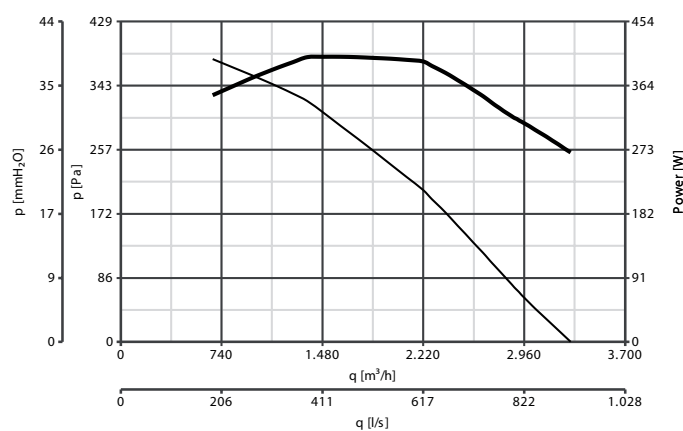
TRM 15 E-V 4P code 15182



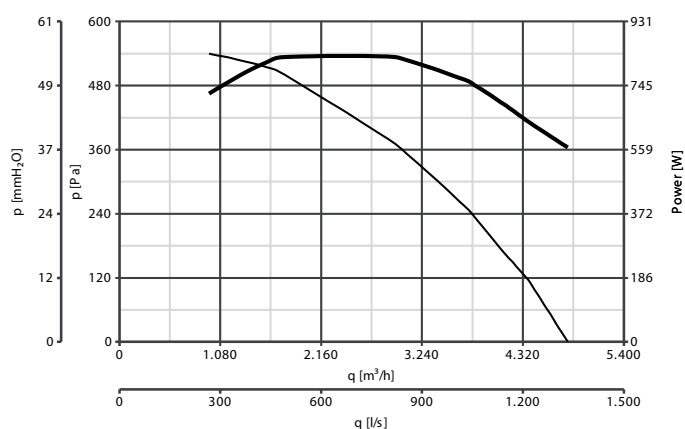
TRM 20 E-V 4P code 15197



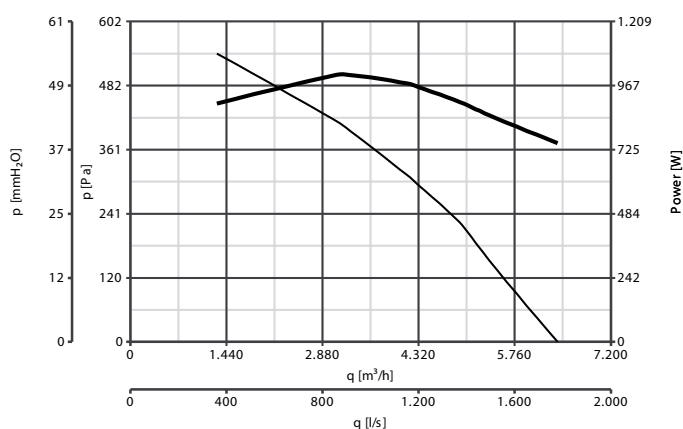
TRM 30 E-V 4P code 15198



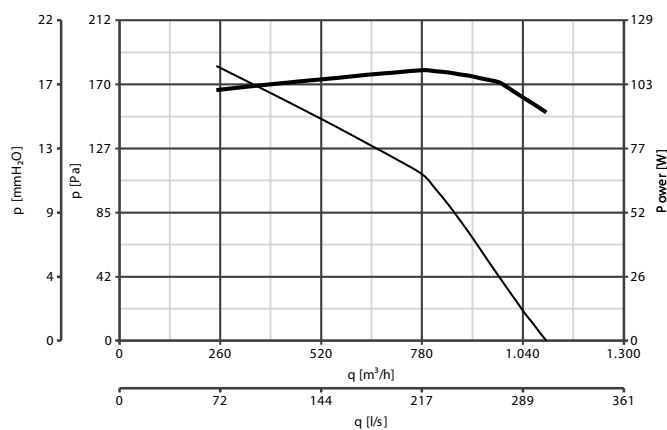
TRM 50 E-V 4P code 15199



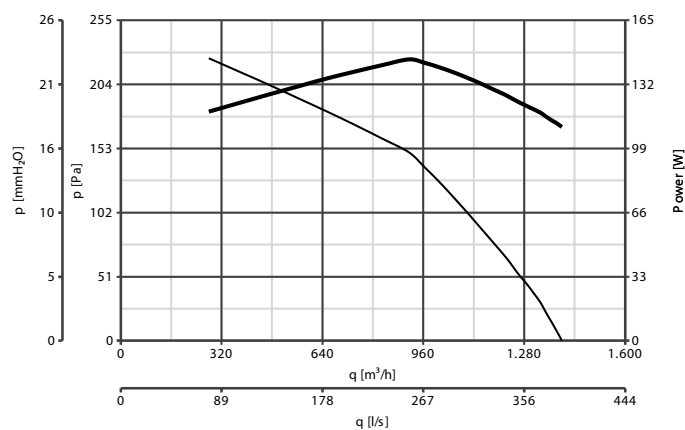
TRM 70 E-V 4P code 15188

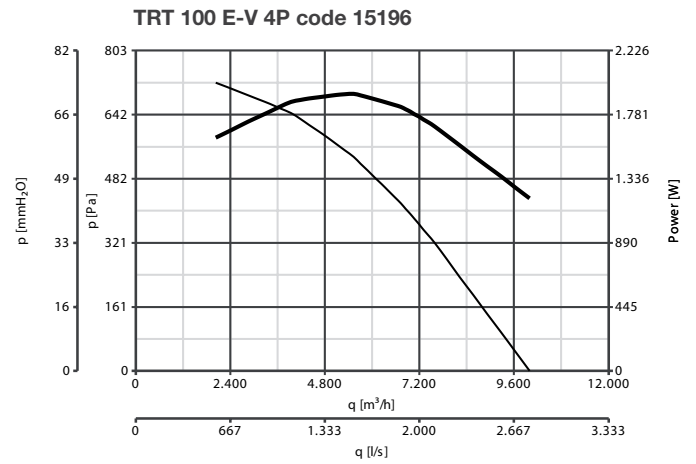
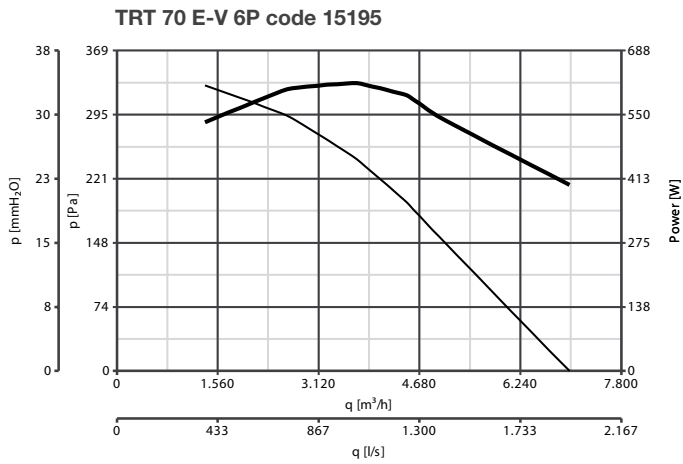
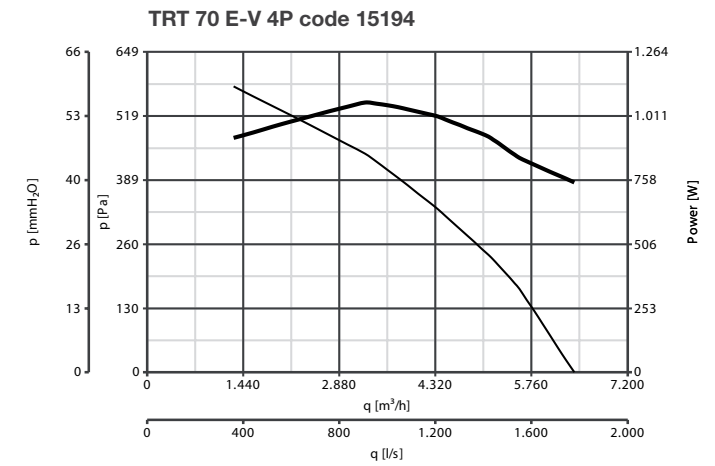
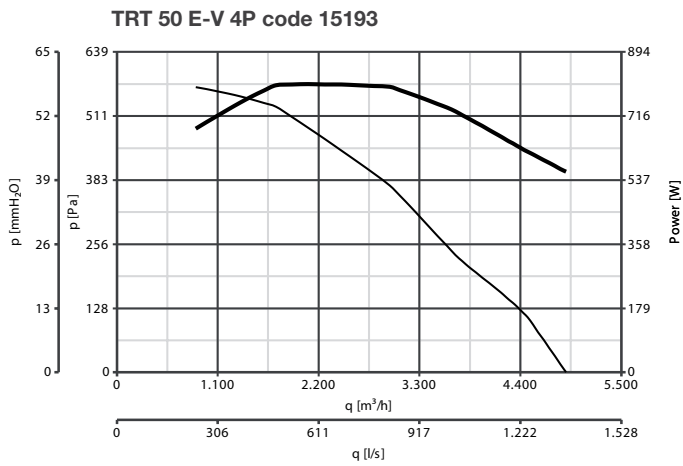
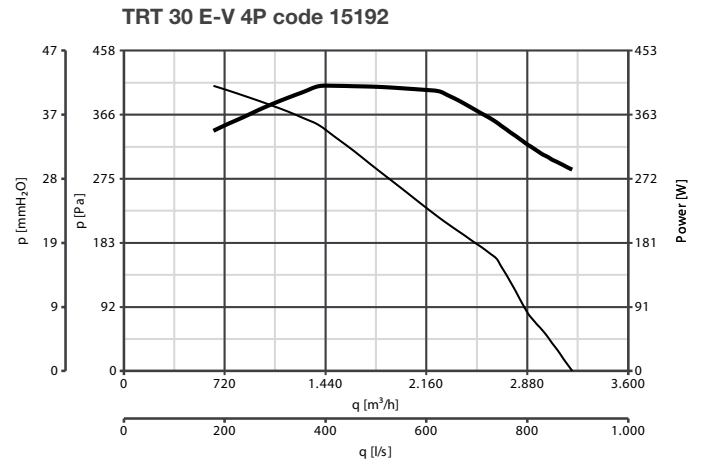
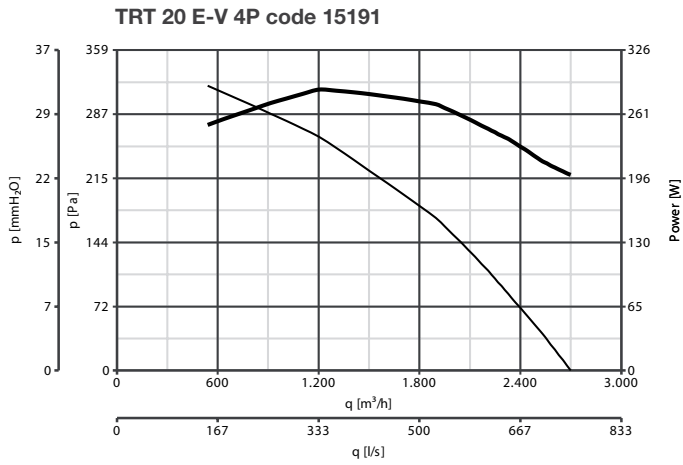


TRT 10 E-V 4P code 15189

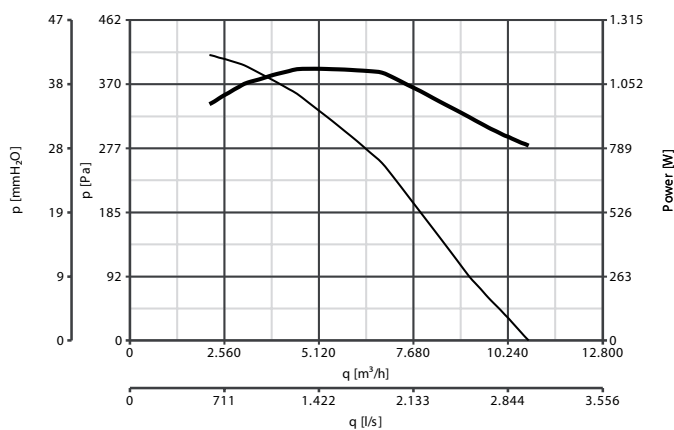


TRT 15 E-V 4P code 15190

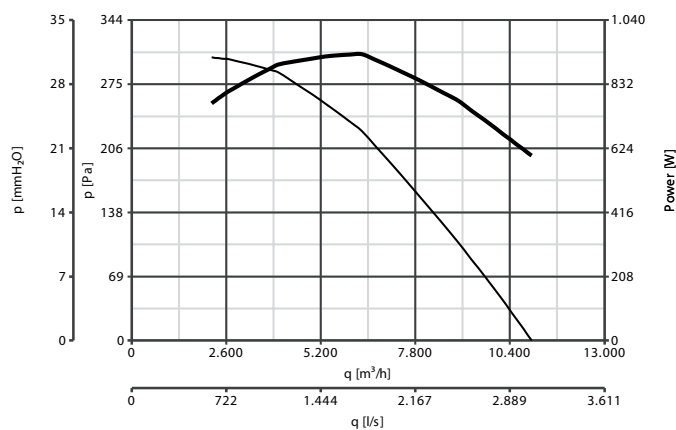




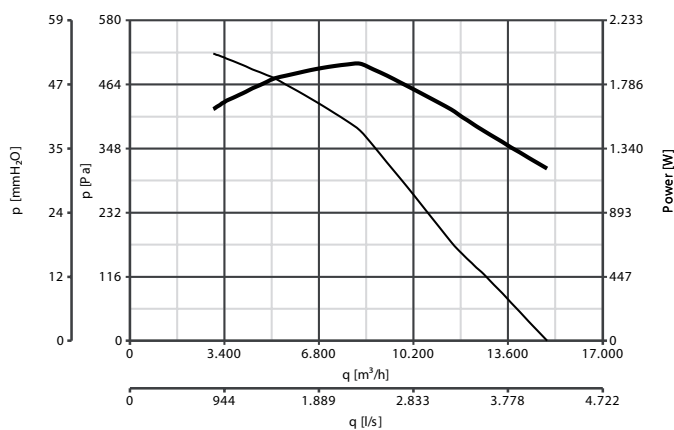
TRT 100 E-V 6P



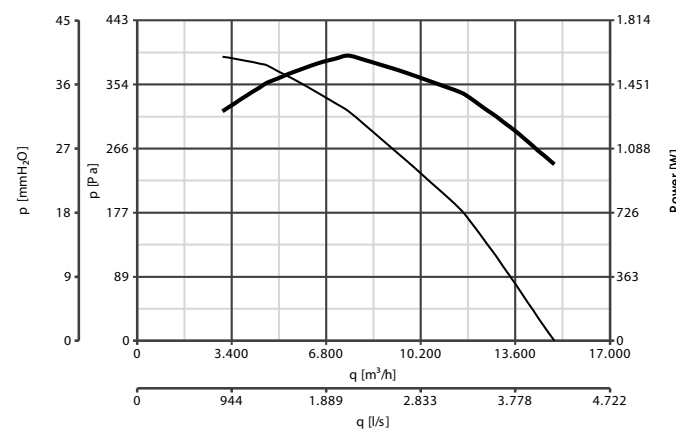
TRT 100 E-V 8P



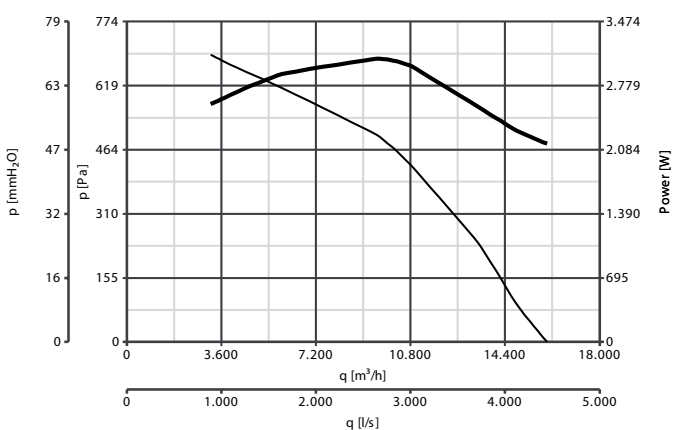
TRT 150 E-V 6P



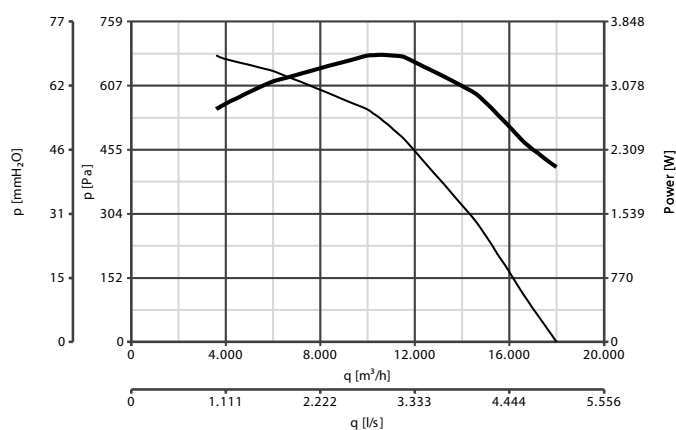
TRT 150 E-V 8P



TRT 180 E-V 6P



TRT 210 E-V 6P



— Delivery — Consumption

