

APPLICATION

AFW fans typical uses are:

- general ventilation of commercial premises and industrial halls,
- ventilation of warehouses and storage warehouses,
- ventilation of garages and public utility buildings, etc.

CONSTRUCTION

- glass-fibre reinforced plastic impeller, dynamically balanced in accordance with ISO 1940-1,
- sheet steel wall plate with finger proof guard,
- mounting plate painter in RAL 9005 (corrosivity category C3)
- working temperature range from -15°C to +40°C (single phase models), -30°C to +60°C (three phase from 400), -30°C to +40°C (three phase from 450).

MOTOR

- asynchronous, single-phase 230V 50Hz (power to 0,55kW),
- asynchronous, three-phase 400V 50Hz,
- efficiency class IE3,
- degree of protection IP55,
- insulation class F,
- single-phase motors driven by voltage,
- three-phase motors are adapted for frequency converter.

ON REQUEST

- aluminium impeller,
- different motor voltage and frequency,
- different motor degree of protection,
- different insulation class,
- motor equipped with sensors,
- working temperature range below -15°C and above +40°C.



TECHNICAL CHARACTERISTICS

Type	airflow max	number of poles	speed	maximum absorbed current	maximum absorbed power	regulator*	sound pressure level**	weight	article number	
	[m³/h]		[r.p.m.]	[A]	[kW]		[dB(A)]			[kg]
SINGLE-PHASE										
AFW/2-315-037S	3270	2	2880	2,2	-	0,37	TLR 25 DS / RVS-3	78	10	432511610
AFW/2-355-055S	4130		2870	3,1	-	0,55	REB-5 / RVS-5	82	11	432511620
THREE-PHASE										
AFW/2-250-025T	2020	2	2780	1,1	0,65	0,25	Inverter 0,4 kW	72	9	432511630
AFW/2-315-037T	3270		2870	1,65	0,95	0,37	Inverter 0,4 kW	78	12	432511650
AFW/2-315-055T	4910		2870	2,15	1,25	0,55	Inverter 0,75 kW	80	16	432511660
AFW/2-355-055T	4130		2870	2,15	1,25	0,55	Inverter 0,75 kW	82	18	432511670
AFW/2-355-110T	6740		2840	3,8	2,2	1,1	Inverter 1,5 kW	84	22	432511680
AFW/2-400-110T	8340		2840	3,8	2,2	1,1	Inverter 1,5 kW	87	26	432511690
AFW/2-450-220T	9880		2895	-	4,6	2,2	Inverter 2,2 kW	90	36	432511700
AFW/2-450-300T	13100		2880	-	5,3	3,0	Inverter 5,5 kW	94	38	432511710
AFW/2-500-300T	15200		2880	-	5,3	3,0	Inverter 5,5 kW	96	40	432511720
AFW/4-560-150T	12500		4	1440	-	3,6	1,5	Inverter 1,5 kW	78	33
AFW/4-630-220T	16000	1450		-	4,6	2,2	Inverter 2,2 kW	84	41	432511740
AFW/4-710-400T	25700	1450		-	8,4	4,0	Inverter 5,5 kW	86	45	432511750

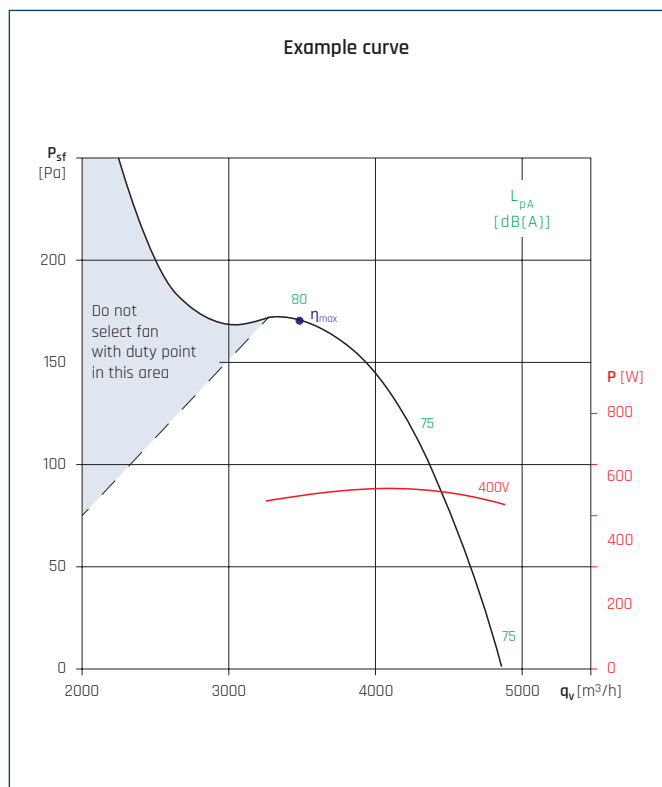
* - regulators are not sold with fans - these are optional accessories. All three speed types are speed controllable by inverter in range 25-50Hz.

** - sound pressure level measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1,5 meters.

PERFORMANCE CURVES

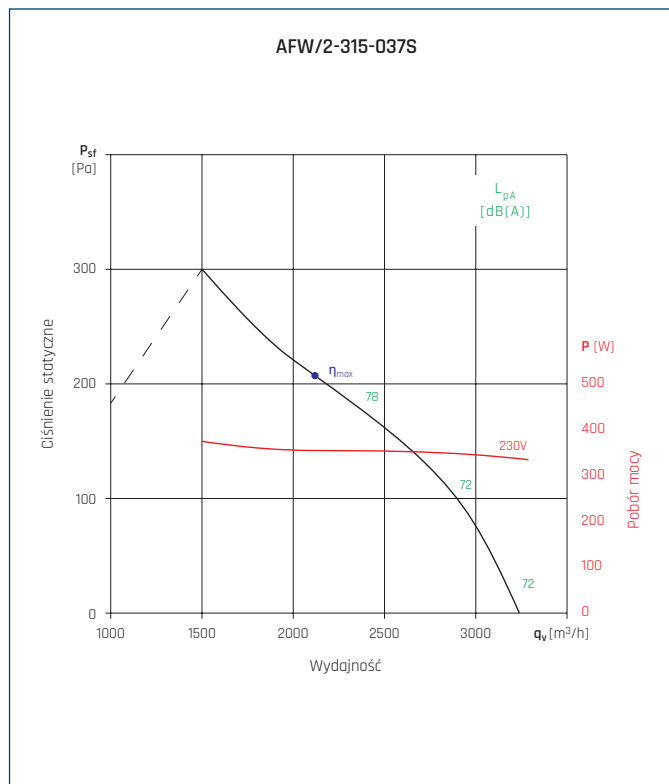
- q_v - Airflow in m^3/h and m^3/s
- p_{sf} - Static pressure in Pa
- P - Input power in W
- Fan efficiency without speed control
- Sound pressure level in dB(A), measured at a distance of 1,5m.

- MC** Measurement category
- EC** Efficiency category
- VSD** Speed control: supplied with the fan
- SR** Specific ratio
- η [%] Efficiency
- N** Efficiency grade
- [kW] Absorbed power
- [m^3/h] Airflow
- [Pa] Static pressure
- [RPM] Speed



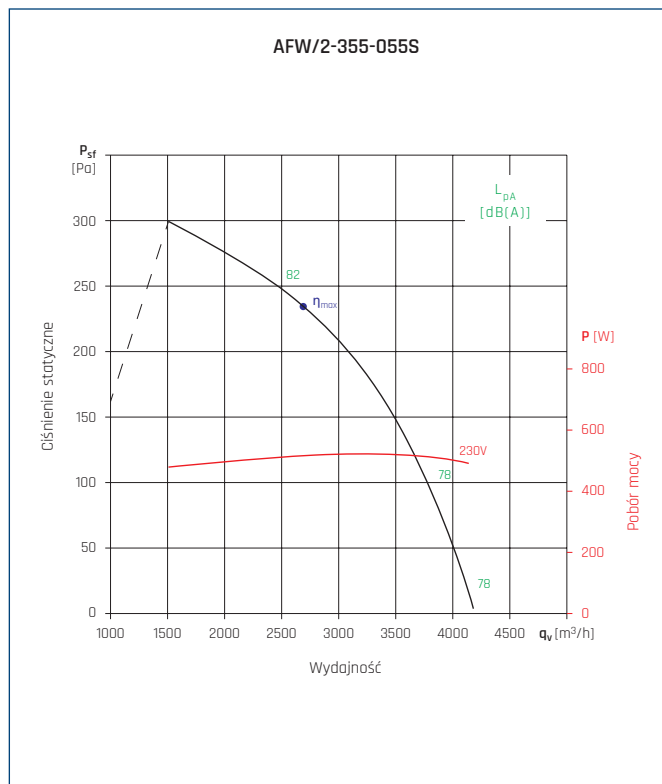
MC	EC	VSD	SR	η [%]	N	[kW]	[m^3/h]	[Pa]	[RPM]
D	Total	No	1	45,1	52,8	0,597	6200	155	1379

● - highest efficiency point.



MC	EC	VSD	SR	η [%]	N	[kW]	[m^3/h]	[Pa]	[RPM]
C	Static	No	1	32,5	41,3	0,40	2108	223	2914

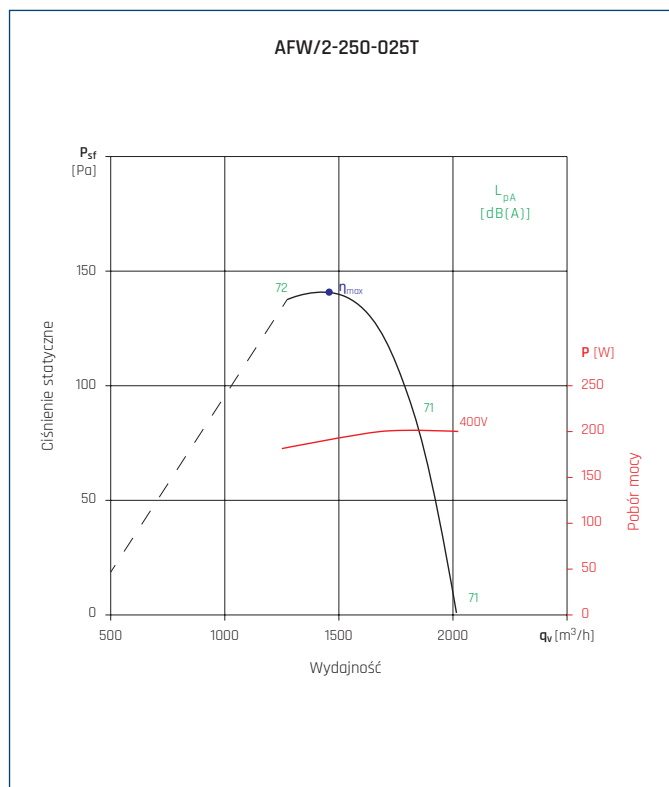
● - highest efficiency point.



MC	EC	VSD	SR	η [%]	N	[kW]	[m^3/h]	[Pa]	[RPM]
C	Static	No	1	32,3	40,5	0,51	2708	219	2870

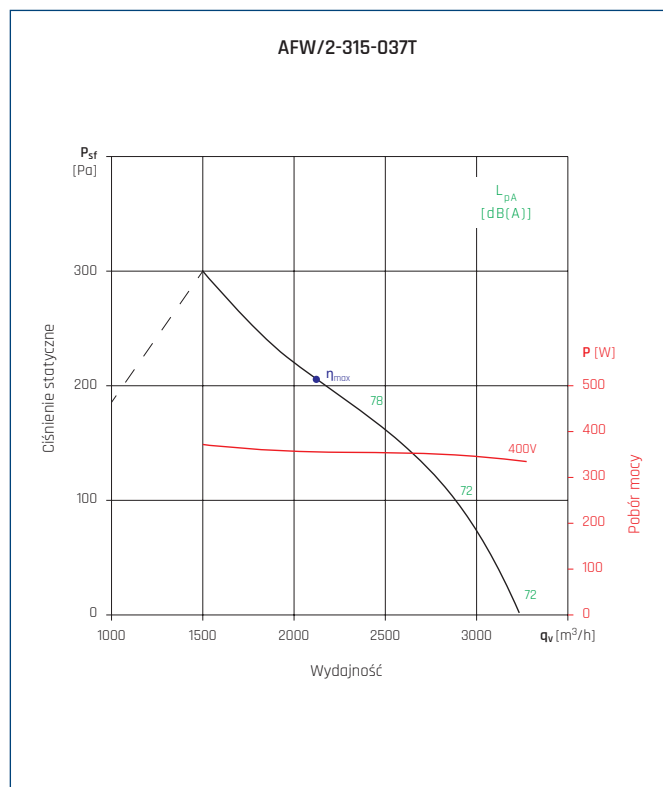
● - highest efficiency point.

PERFORMANCE CURVES



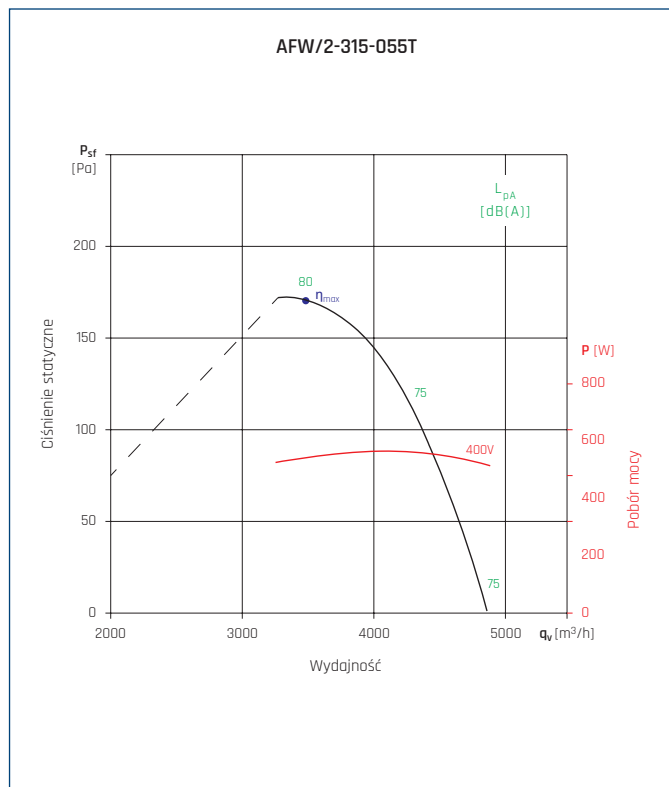
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	29,2	40,1	0,19	1436	139	2790

• - highest efficiency point.



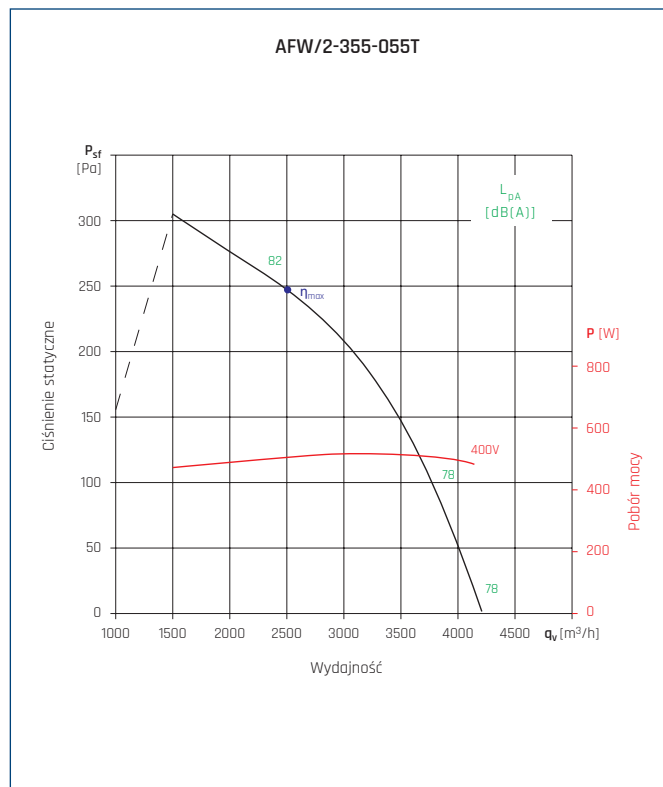
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	32,9	41,9	0,39	2108	217	2870

• - highest efficiency point.



MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	32,1	41,2	0,57	3493	196	2860

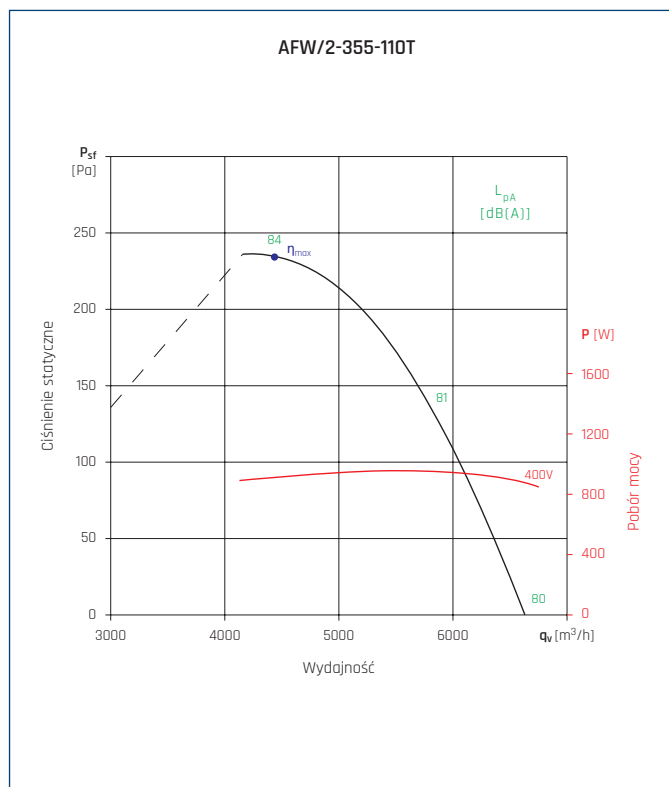
• - highest efficiency point.



MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	32,3	40,5	0,51	2708	219	2870

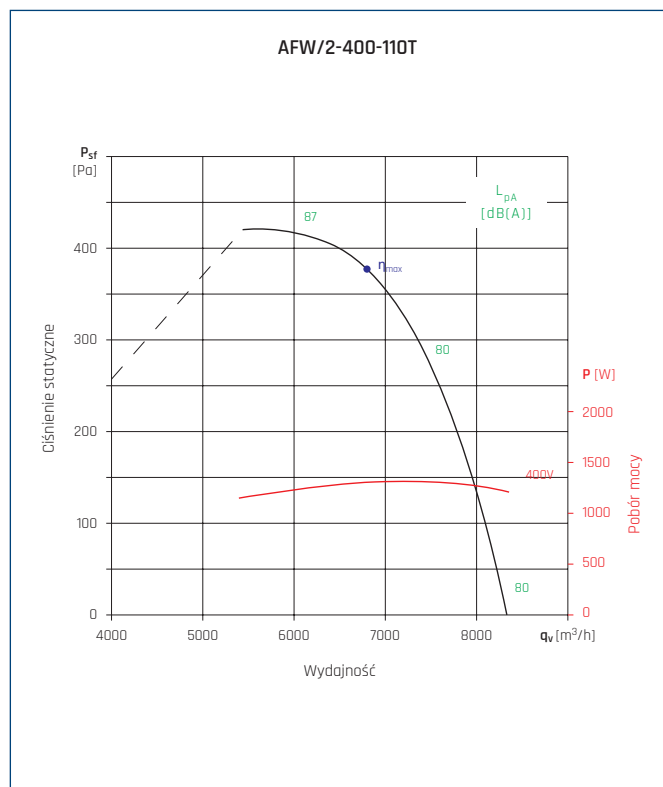
• - highest efficiency point.

PERFORMANCE CURVES



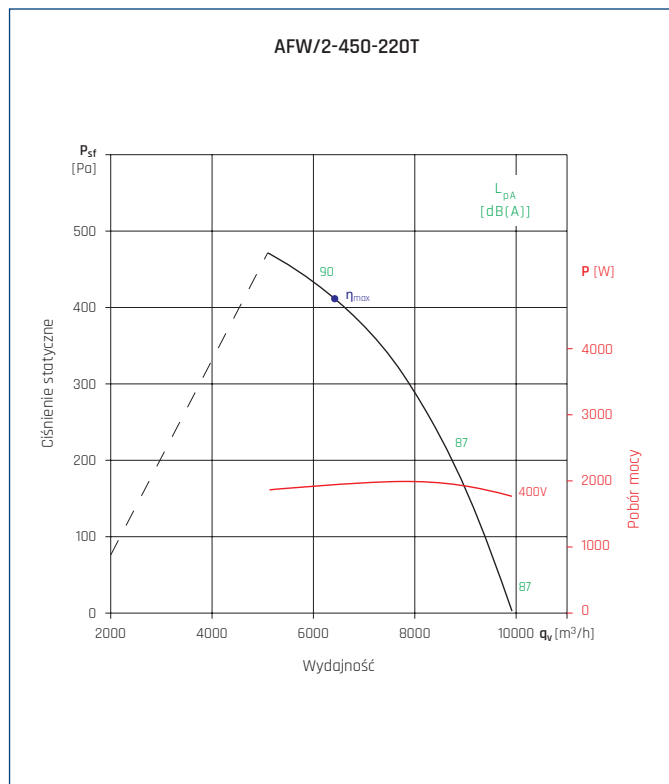
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	34,4	40,9	0,92	4532	250	2890

● - highest efficiency point.



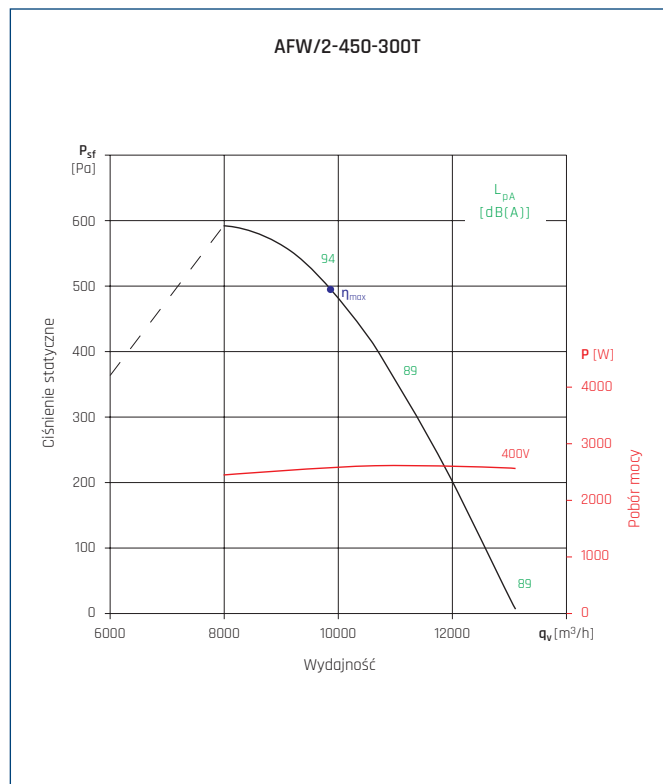
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	36,2	41,5	1,45	5369	353	2921

● - highest efficiency point.



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	37,0	41,5	1,99	6469	412	2890

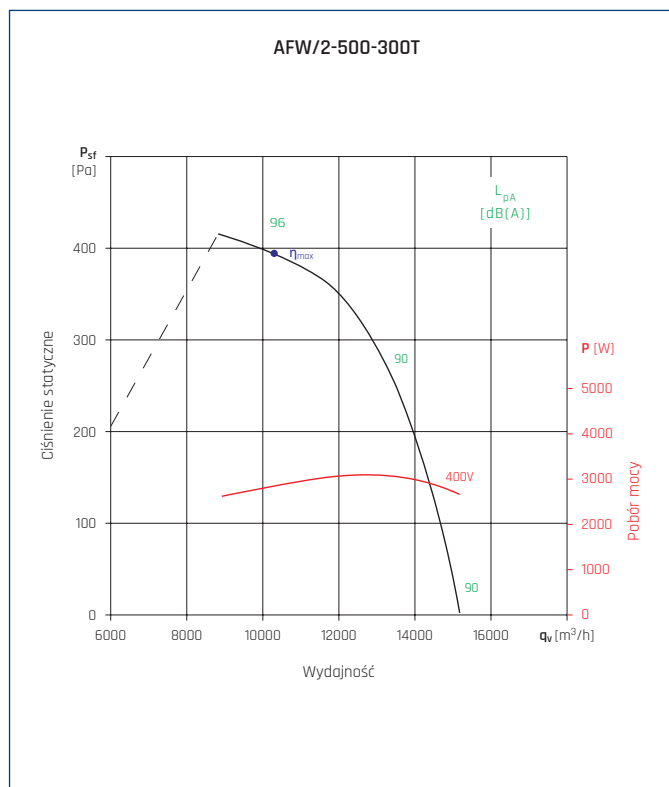
● - highest efficiency point.



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
D	Total	No	1	55,6	59,4	2,53	9916	510	2900

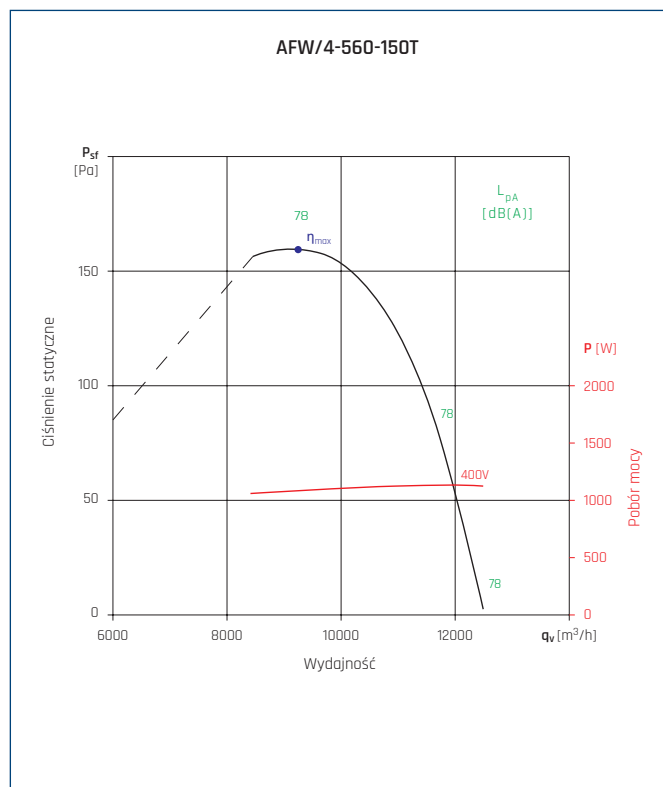
● - highest efficiency point.

PERFORMANCE CURVES



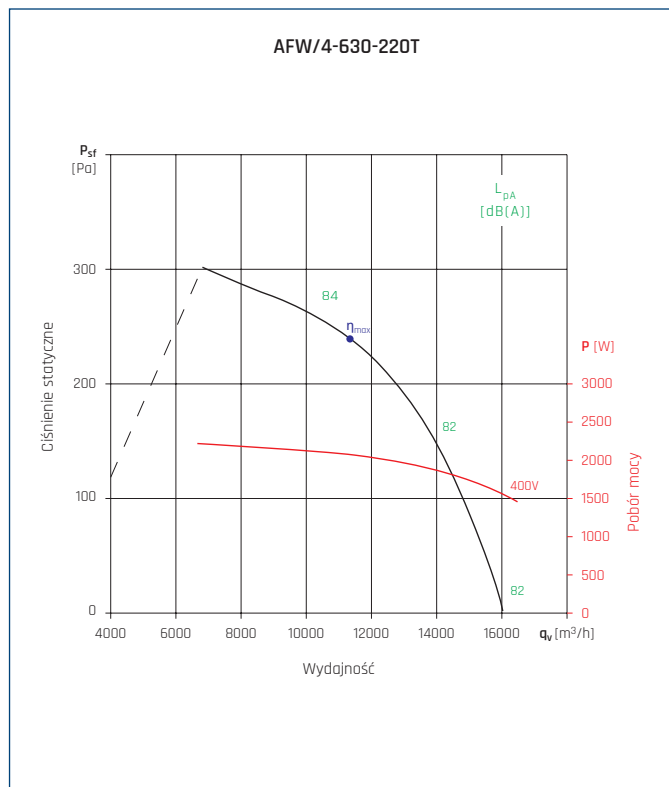
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	37,5	40,7	3,15	10327	412	2880

● - highest efficiency point.



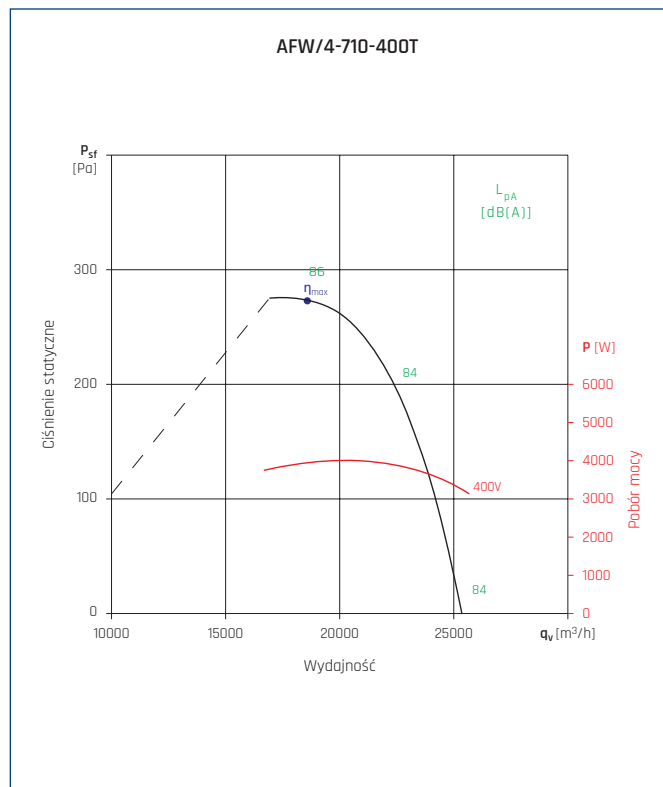
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	37,7	43,7	1,2	9281	162	1440

● - highest efficiency point.



MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	38,6	42,9	2,11	11195	262	1435

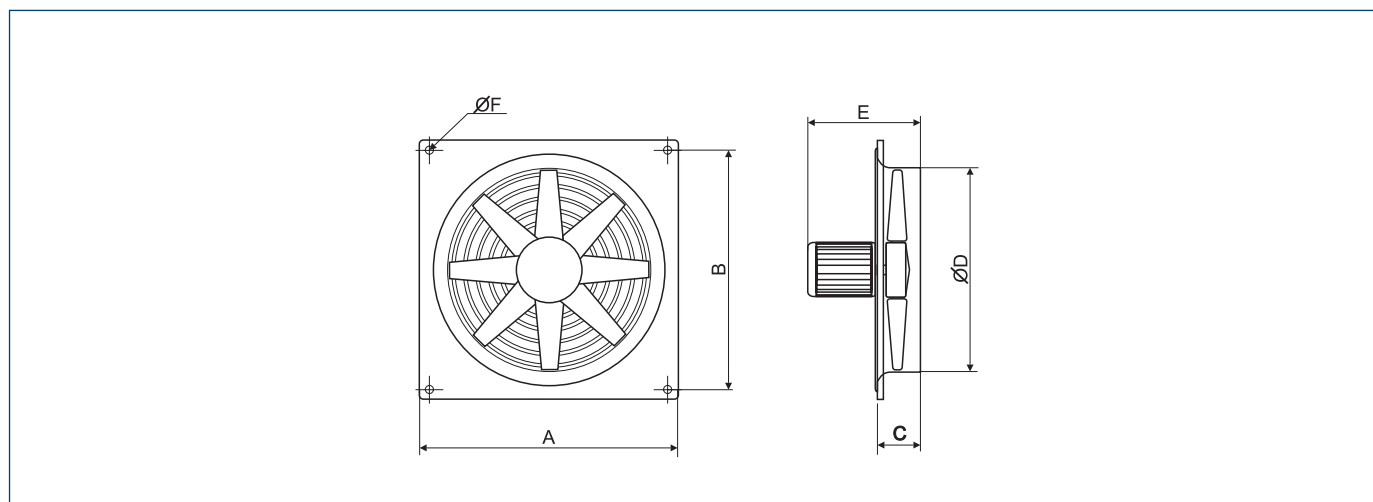
● - highest efficiency point.



MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	37,9	40,4	3,94	18842	290	1440

● - highest efficiency point.

DIMENSIONS [mm]



Type	A	B	C	ØD	E	ØF
250	315	260	65	254	275	10
315	400	330	80	315	290	10
355	450	380	87	355	300	10
400	500	420	90	400	320	10
450	560	480	103	450	320	10
500	630	560	109	500	320	10
560	710	630	110,5	560	400	10
630	800	710	115	630	425	12
710	900	800	108	710	430	12

MOUNTING ACCESORIES

Type	exhaust side louvre shutters	
	PER-W/N - plastic	PER-CN/CR - aluminium
250	PER-250 W/N	PER-250 CN
315	PER-300 W/N	PER-355 CN
355	PER-350 W/N	PER-355 CN
400	PER-400 W/N	PER-400 CN
450	PER-450 W/N	PER-450 CN
500	PER-500 W/N	PER-500 CN
560	PER-560 W/N	PER-630 CR
630	PER-650 W/N	PER-630 CR
710	PER-710 W/N	PER-710 CR

Article numbers

PER-250 CN	40520510	PER-355 CN	40520520	PER-450 CN	40520540	PER-500 W/N	40520775	PER-650 W/N	40520785
PER-250 W/N	40520740	PER-400 CN	40520530	PER-450 W/N	40520770	PER-560 W/N	40520780	PER-710 CR	40520597
PER-300 W/N	40520750	PER-400 W/N	40520765	PER-500 CN	40520550	PER-630 CR	40520596	PER-710 W/N	40520790
PER-350 W/N	40520760								



ELECTRICAL ACCESSORIES - SINGLE-PHASE MOTORS

Type	wall thermostat	duct thermostat	air quality sensor	humidistat	thyristor regulator		
	TS	TK-1	SQA	HIG-2	REB N	REB NE	TLR
AFW/2-315-037S	TS	TK-1	SQA	HIG-2	REB-2.5 N	REB-2.5 NE	TLR 25 DS
AFW/2-355-055S	TS	TK-1	SQA	HIG-2	REB-5	-	-

Type	11-speed thyristor regulator	2-adjustable 6-speed thyristor regulator	ERV	transformer regulator		transformer regulator 2-adjustable	
	IRF	RND-1		RMB	RVS	SC2	SC2A
AFW/2-315-037S	IRF-900	RND-1	ERV-3	RMB-3.5	RVS-3	SC2-1-25L25	SC2A1-25L25
AFW/2-355-055S	IRF-900	-	ERV-5	RMB-8	RVS-5	SC2-1-35L25	SC2A1-35L25

ELECTRICAL ACCESSORIES - THREE-PHASE MOTORS

Type	wall thermostat	duct thermostat	air quality sensor	humidistat	inverter
	TS	TK-1	SQA	HIG-2	
AFW/2-250-025T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.4kW
AFW/2-315-037T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.4kW
AFW/2-315-055T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.75kW
AFW/2-355-055T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.75kW
AFW/2-355-110T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 1.5kW
AFW/2-400-110T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 1.5kW
AFW/2-450-220T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 2.2kW
AFW/2-450-300T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFW/2-500-300T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFW/4-560-150T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 1.5kW
AFW/4-630-220T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 2.2kW
AFW/4-710-400T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW

Article number

ERV-3	40025046	L 0.75kW	40016312	REB-2.5 NE	40025040	RVS-3	40025234	SC2A1-35L25	40025255
ERV-5	40025053	L 1.5kW	40016322	REB-5	40025051	RVS-5	40025235	SQA	40025140
HIG-2	40025150	L 2.2kW	40016332	RMB-3.5	40025070	SC2-1-25L25	40025252	TK-1	40025330
IRF-900	40016154	L 4.0kW	40016352	RMB-8	40025080	SC2-1-35L25	40025254	TLR 25 DS	40025045
L 0.4kW	40016302	REB-2.5 N	40025030	RND-1	40025630	SC2A1-25L25	40025253	TS	40025345

