

APPLICATION

The fan is intended for all types of general ventilation installations.

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

- rotor is made of glass-fibre reinforced polypropylene, dynamically balanced according to ISO 1940-1,
- welded steel sheet housing,
- fan painted black RAL 9005,
- inspection cover on the housing,
- installation in a horizontal position,
- temperature of the pumped medium -15°C to +40°C (single-phase models), -30°C to +60°C (three-phase models up to 400), -30°C to +40°C (three-phase models from 450).

ELECTRIC ENGINE

- asynchronous, single-phase 230V 50Hz,
- asynchronous, three-phase 230/400V 50Hz, 400/690V 50Hz,
- degree of protection IP 55, insulation class F,
- for voltage regulation (single-phase motors),
- for frequency control (three-phase motors).

SPECIAL EXECUTIONS

- painting in a color other than the standard,
- painting in a higher corrosivity category,
- galvanized steel sheet housing,
- housing made of stainless steel 1.4301,
- housing made of acid-proof steel 1.4404,
- motor for other than standard voltage and power frequency,
- engine with a different degree of protection,
- motor with a different insulation class,
- engine equipped with sensors or additional cooling,
- fan with a diameter of more than 1000 mm.



TECHNICAL CHARACTERISTICS

Type	airflow	number of poles	speed	maximum absorbed current		maximum absorbed power	regulator*	sound pressure level**	weight	article number
	[m³/h]		[r.p.m.]	[A]	[A]	[kW]		[dB(A)]	[kg]	
SINGLE-PHASE										
AFC/2-315-037S	3270	2	2880	2,2	-	0,37	RVS-3	78	15,5	432410127
AFC/2-355-055S	4130		2870	3,1	-	0,55	REB-5 / RVS-5	81	19,1	432510002
THREE-PHASE										
AFC/2-250-025T	2020	2	2780	1,1	0,65	0,25	inverter 0,4kW	71	11,0	432410115
AFC/2-315-037T	3270		2870	1,65	0,95	0,37	inverter 0,4kW	78	14,5	432410125
AFC/2-315-055T	4910		2870	2,15	1,25	0,55	inverter 0,75kW	81	16,5	432410120
AFC/2-355-055T	4130		2870	2,15	1,25	0,55	inverter 0,75kW	81	19,0	432510000
AFC/2-355-110T	6740		2840	3,8	2,2	1,1	inverter 1,5kW	84	23,5	432510005
AFC/2-400-110T	8340		2840	3,8	2,2	1,1	inverter 1,5kW	89	26,5	432510010
AFC/2-450-220T	9880		2895	-	4,6	2,2	inverter 2,2kW	90	39,3	432513021
AFC/2-450-300T	13100		2880	-	5,3	3,0	inverter 2,2kW	95	40,0	432513020
AFC/2-500-300T	15200		2880	-	5,3	3,0	inverter 2,2kW	97	50,0	432513030
AFC/4-560-150T	12500		1440	-	3,6	1,5	inverter 1,5kW	91	55,0	432513035
AFC/4-630-220T	16500	1450	-	4,6	2,2	inverter 2,2kW	87	87,0	432513050	
AFC/4-710-400T	25700	1450	-	8,4	4,0	inverter 4kW	89	89,0	432513060	
AFC/4-800-400T	31500	1450	-	8,4	4,0	inverter 4kW	91	104,0	432513070	
AFC/4-900-400T	34500	1450	-	8,4	4,0	inverter 4kW	95	112,0	432513080	
AFC/4-900-750T	48500	1450	-	14,6	7,5	inverter 7,5kW	91	140,0	432513090	
AFC/4-1000-1100T	64000	1475	-	20,9	11,0	inverter 11,0kW	90	245,0	432513100	

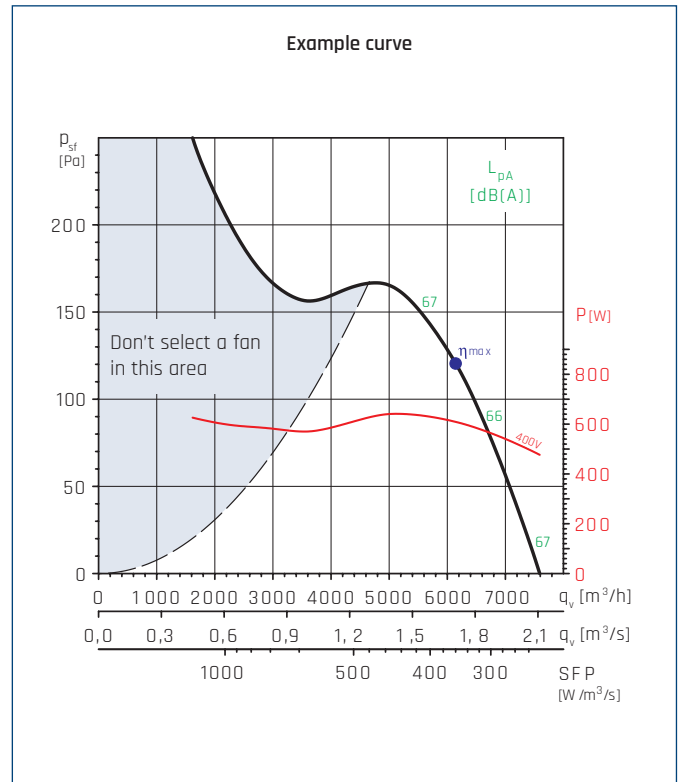
* - regulators are not sold complete with fan. The three-phase motors are driven by frequency in the range 25-50 Hz.

** - sound pressure level measured at 1,5 meters from the fan.

PERFORMANCE CURVES

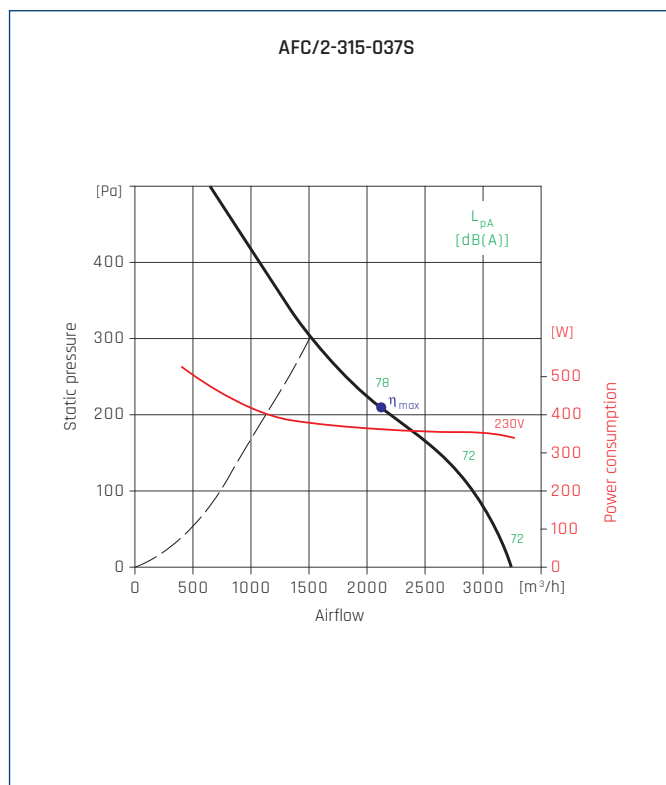
- q_v - Airflow [m^3/h] and [m^3/s]
- p_{sf} - Static pressure [Pa]
- P - Input power [W]
- Fan efficiency without speed control
- Sound pressure level dB(A), measured at 1,5 meters from the fan.

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



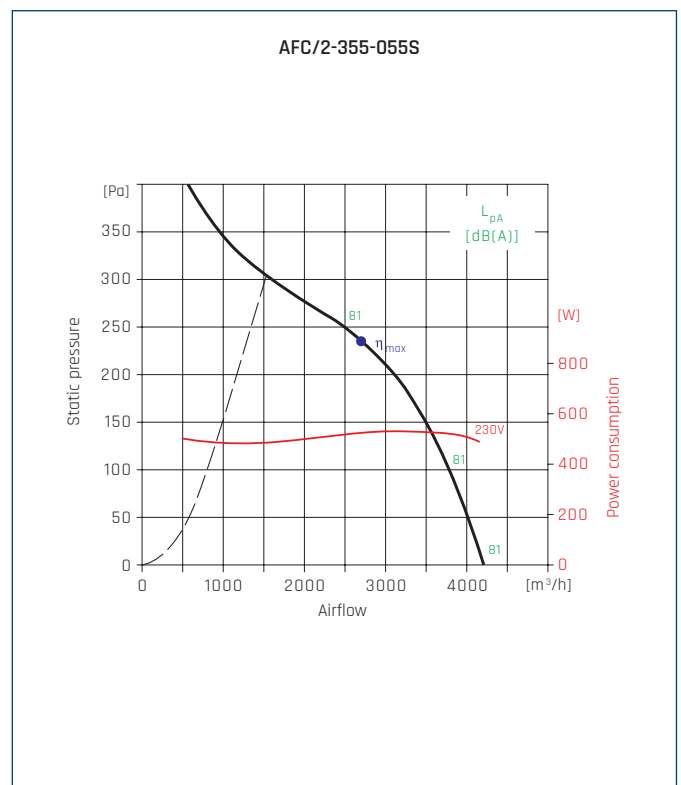
MC	EC	VSD	SR	η [%]	N	[kW]	[m^3/h]	[Pa]	[RPM]
D	Static	No	1	45,1	52,8	0,597	6200	155	1379

• - 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

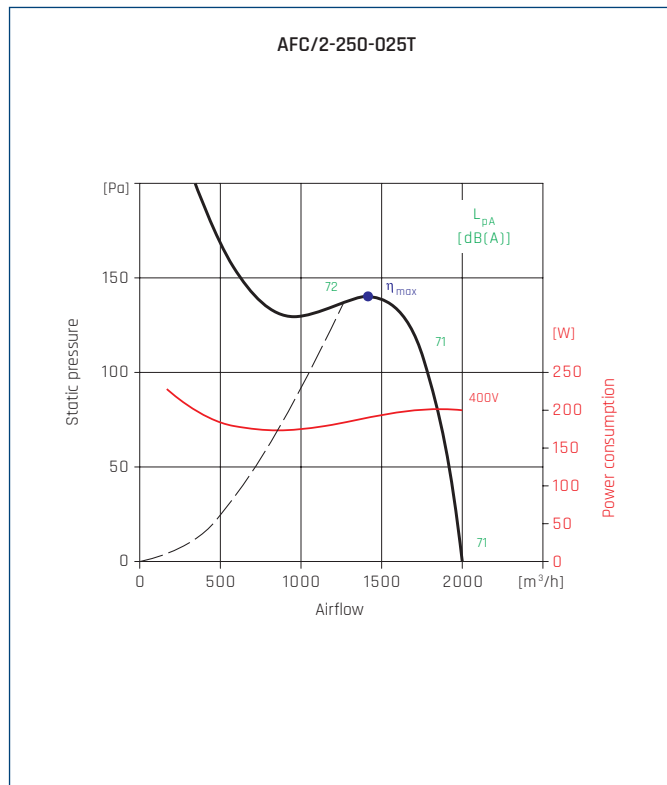
• - highest efficiency point.



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

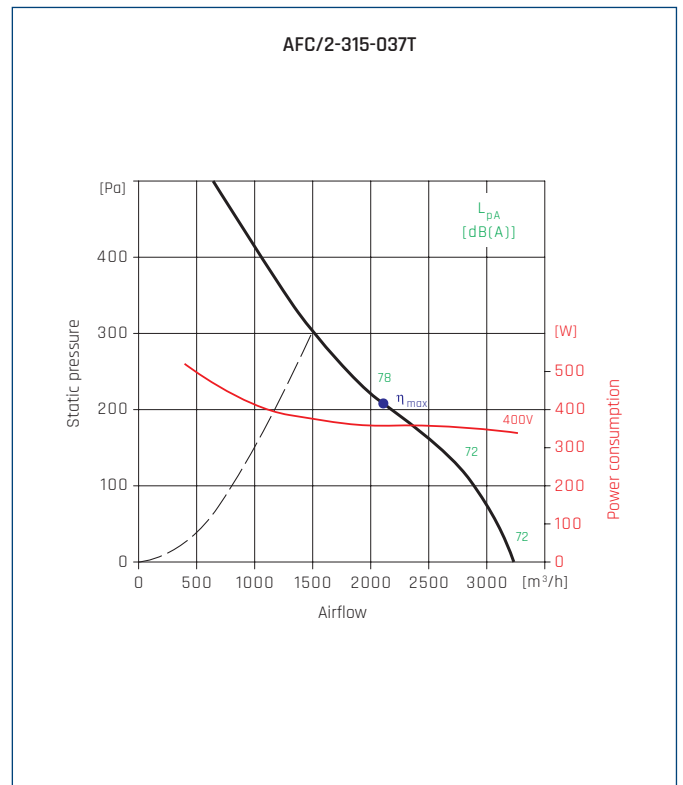
• - highest efficiency point.

PERFORMANCE CURVES



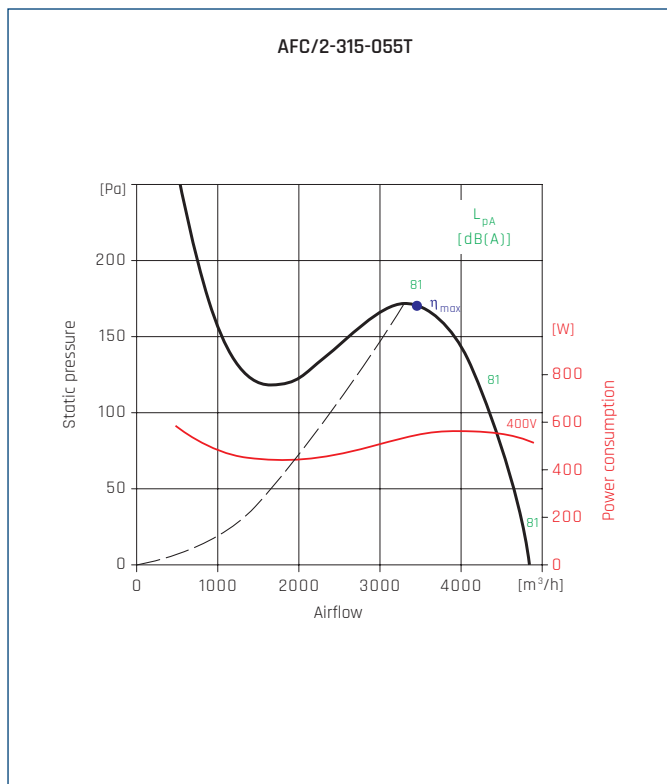
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	29,2	40,1	0,19	1436	139	2790

● - highest efficiency point.



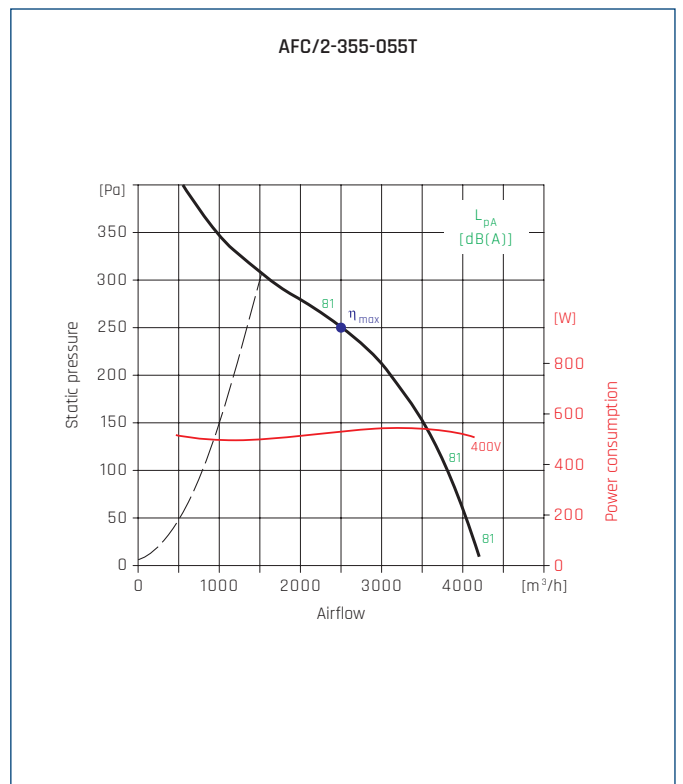
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	32,9	41,9	0,39	2108	217	2870

● - 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

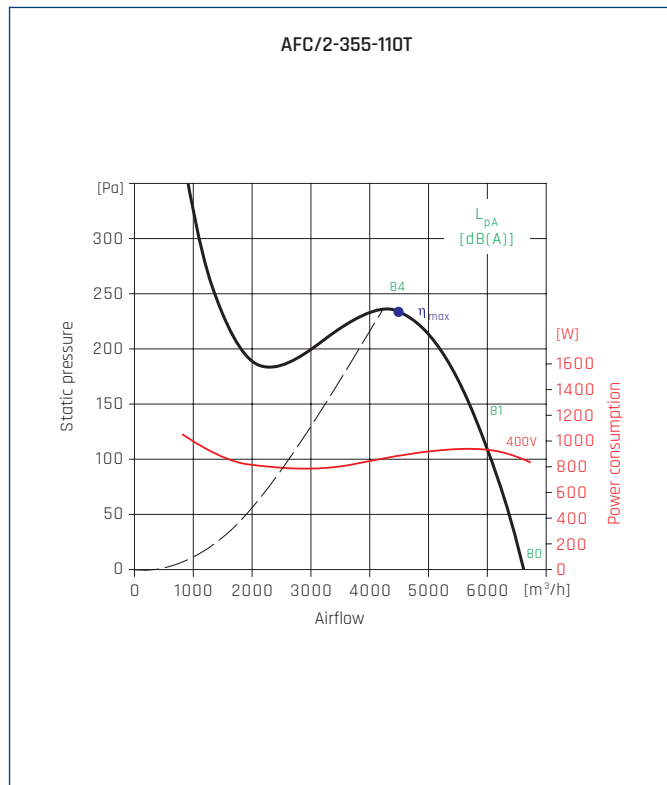
● - highest efficiency point.



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

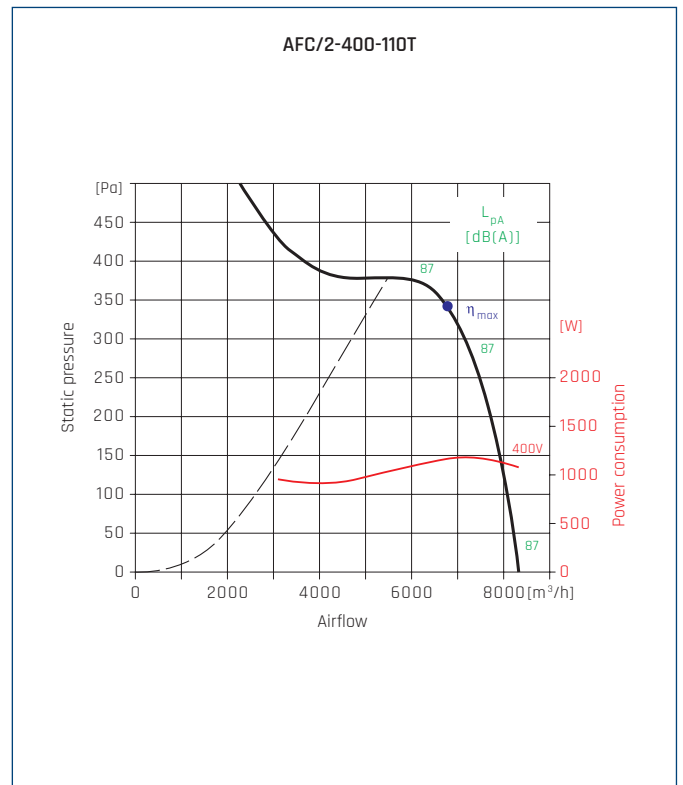
● - highest efficiency point.

PERFORMANCE CURVES



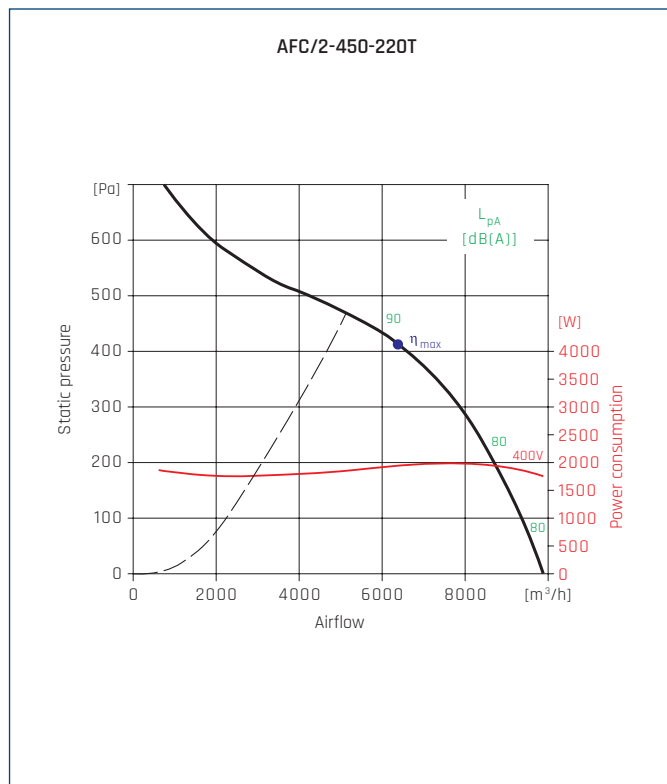
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	34,4	40,9	0,92	4532	250	2890

● - highest efficiency point.



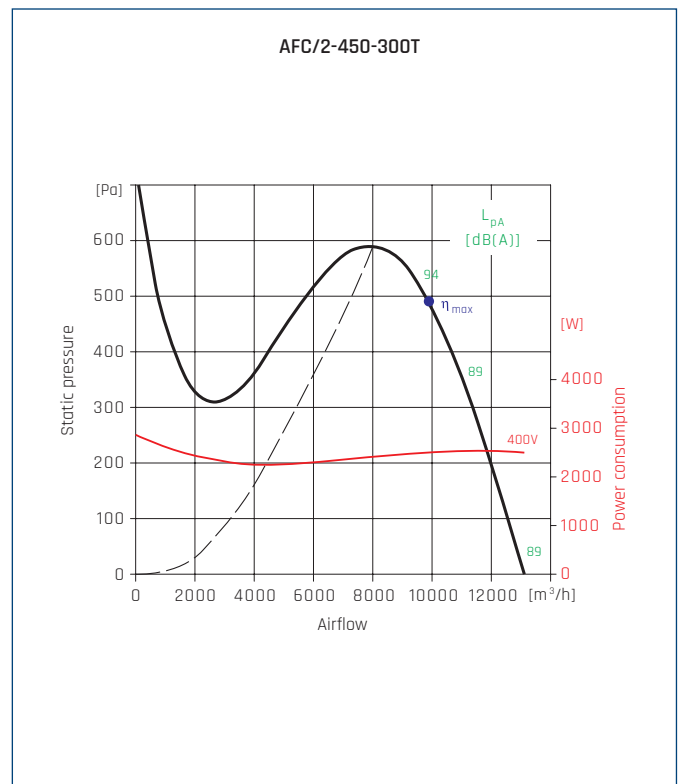
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	36,2	41,5	1,45	5369	353	2921

● - 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

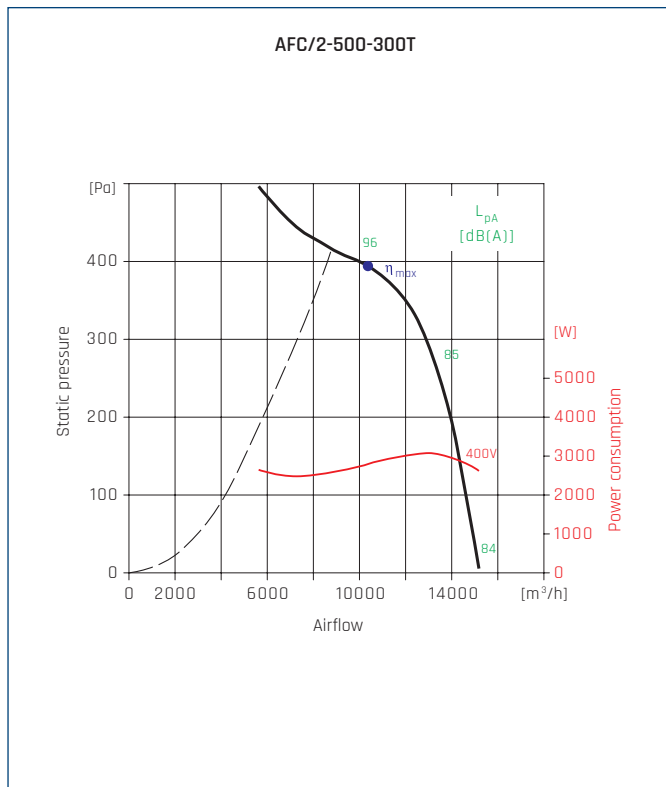
● - highest efficiency point.



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

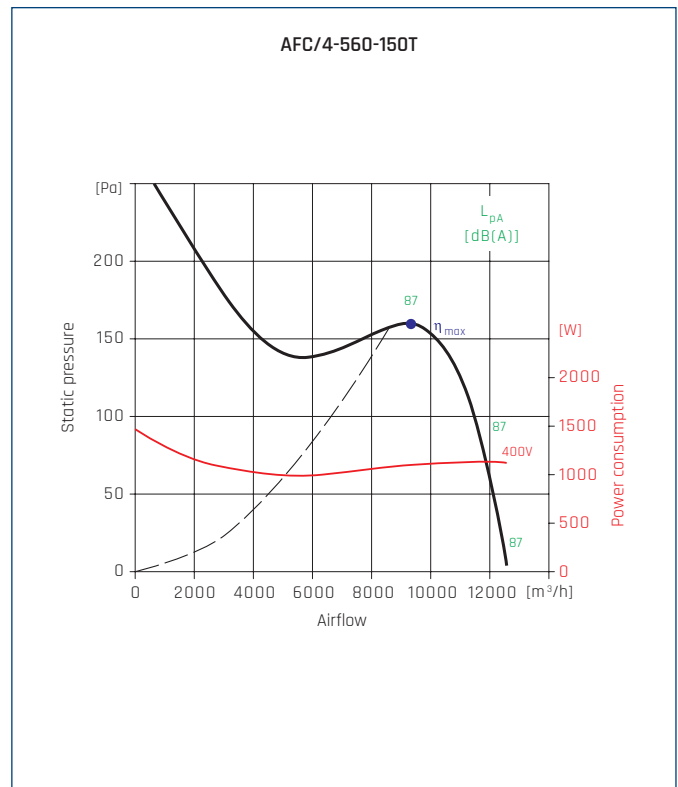
● - highest efficiency point.

PERFORMANCE CURVES



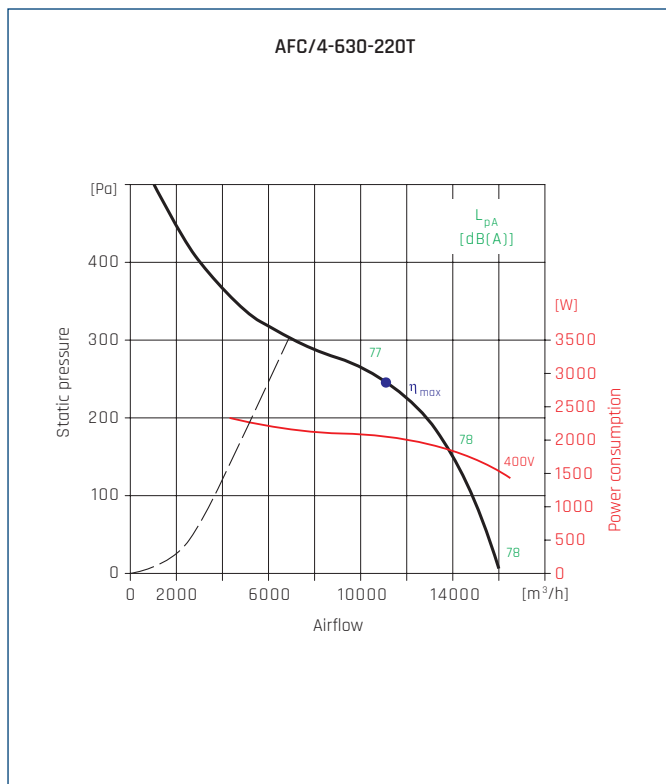
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	37,5	40,7	3,15	10327	412	2880

● - highest efficiency point.



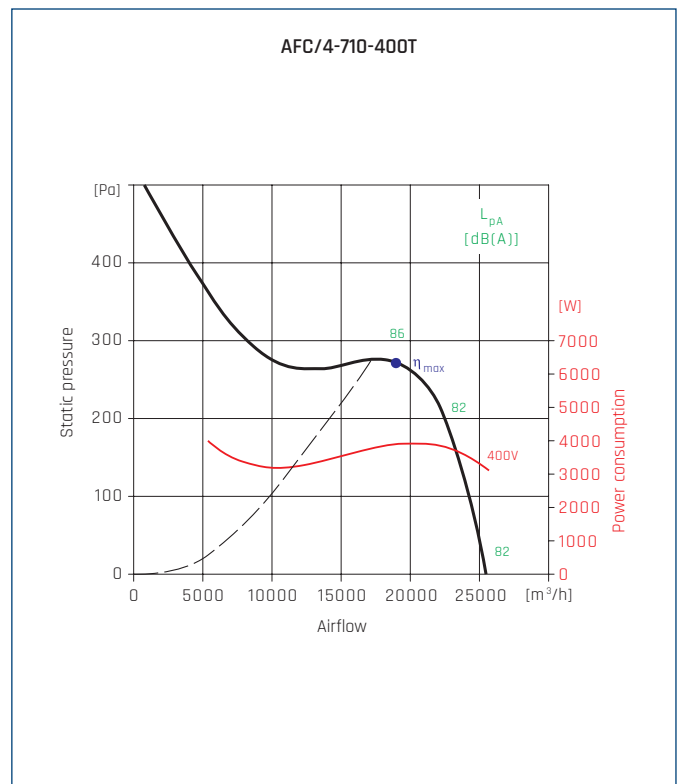
MC	EC	VSD	SR	η [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	37,7	43,7	1,2	9281	162	1440

● - 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

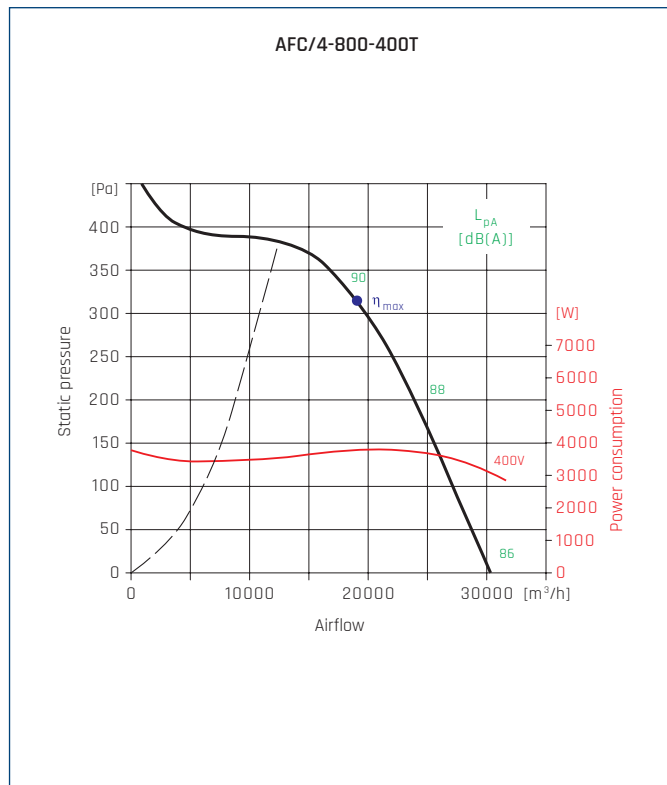
● - highest efficiency point.



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

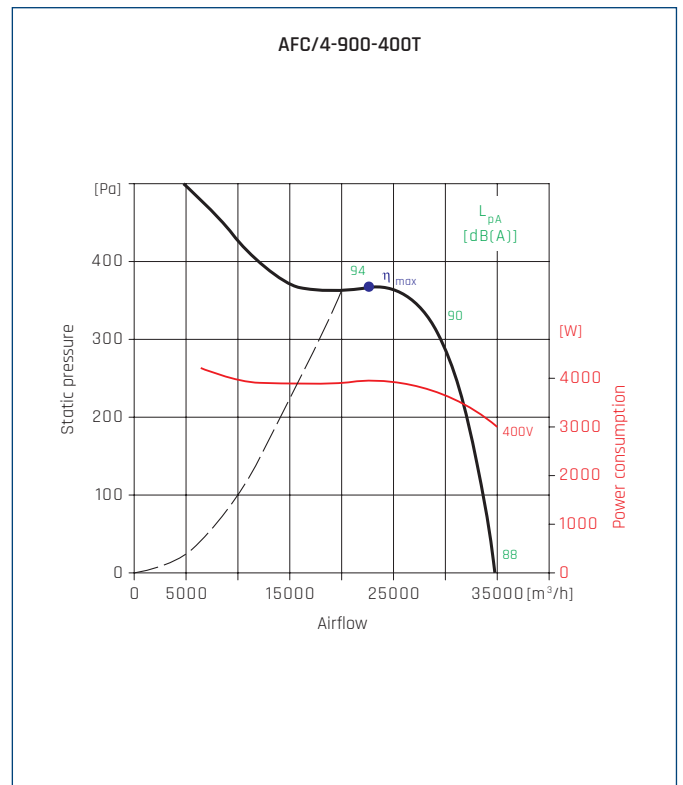
● - highest efficiency point.

PERFORMANCE CURVES



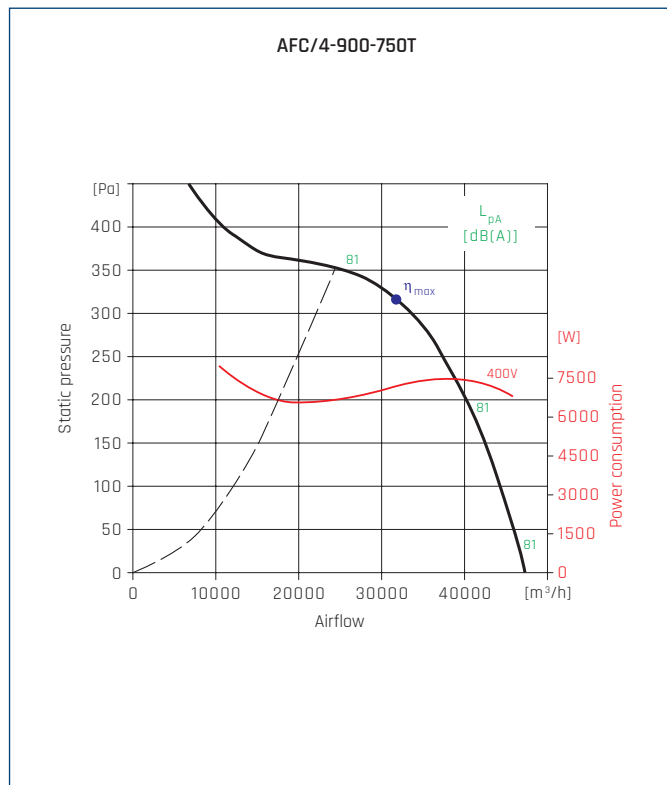
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	40,6	43,0	4,12	19027	316	1440

• - highest efficiency point.



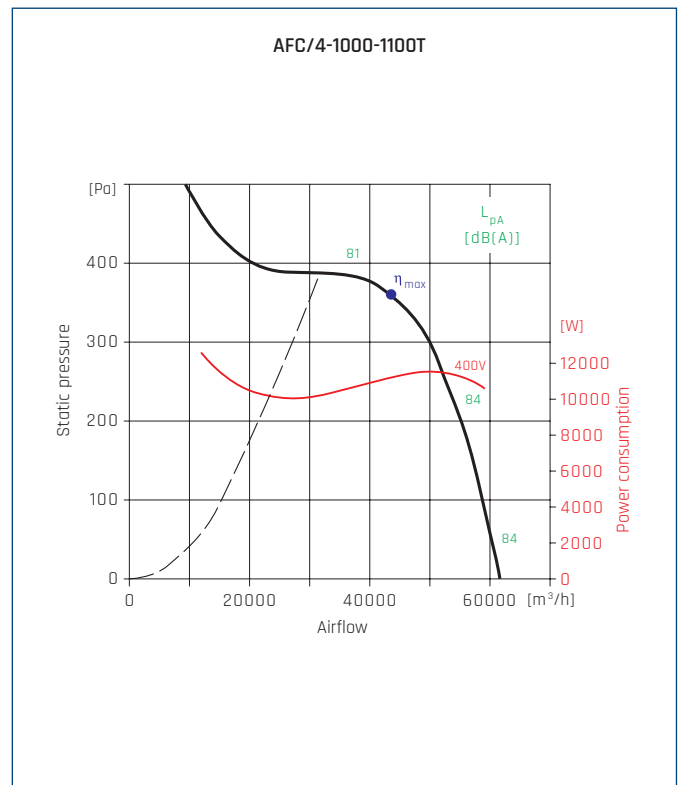
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	48,4	51,0	3,95	22538	365	1459

• - highest efficiency point.



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	41,6	42,5	7,19	32007	336	1468

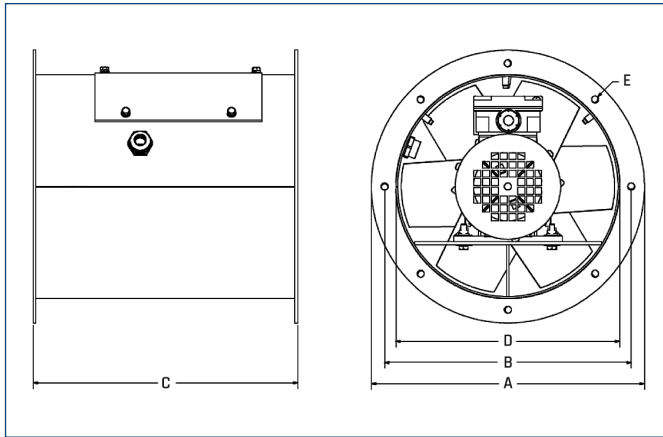
• - highest efficiency point.



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	40,8	40,7	11,52	44257	382	1475

• - highest efficiency point.

DIMENSIONS [mm]



Typ	ØA	ØB	C	ØD	ØE	no. of holes N
250	310	280	300	250	8	8
315	375	345	330	315	8	8
355	426	395	380	355	10	8
400	500	450	380	400	10	8
450	550	500	430	450	10	8
500	600	550	450	500	12	12
560	660	610	450	560	12	12
630	736	690	500	630	12	12
710	810	760	570	710	12	12
800	900	850	620	800	12	12
900	1000	950	620	900	12	12
1000	1100	1050	730	1000	12	12

Mounting accessories



1	2	3	4	5	6	7	8	
Fan	vibro-isolator	mounting feet	wire guard	flexible connector	matching flange	backdraft shutter	sound attenuator SIL-CZ	sound attenuator SIL-CZO
250	AVM 20	M. FEET Ø250	WIRE GUARD Ø250	FLEXIBLE CON. Ø250	STUB Ø250	KZ Ø250	SIL-CZ 250	SIL-CZO 250
315	AVM 20	M. FEET Ø315	WIRE GUARD Ø315	FLEXIBLE CON. Ø315	STUB Ø315	KZ Ø315	SIL-CZ 315	SIL-CZO 315
355	AVM 20	M. FEET Ø355	WIRE GUARD Ø355	FLEXIBLE CON. Ø355	STUB Ø355	KZ Ø355	SIL-CZ 355	SIL-CZO 355
400	AVM 20	M. FEET Ø400	WIRE GUARD Ø400	FLEXIBLE CON. Ø400	STUB Ø400	KZ Ø400	SIL-CZ 400	SIL-CZO 400
450	AVM 35	M. FEET Ø450	WIRE GUARD Ø450	FLEXIBLE CON. Ø450	STUB Ø450	KZ Ø450	SIL-CZ 450	SIL-CZO 450
500	AVM 35	M. FEET Ø500	WIRE GUARD Ø500	FLEXIBLE CON. Ø500	STUB Ø500	KZ Ø500	SIL-CZ 500	SIL-CZO 500
560	AVM 35	M. FEET Ø560	WIRE GUARD Ø560	FLEXIBLE CON. Ø560	STUB Ø560	KZ Ø560	SIL-CZ 560	SIL-CZO 560
630	AVM 35	M. FEET Ø630	WIRE GUARD Ø630	FLEXIBLE CON. Ø630	STUB Ø630	KZ Ø630	SIL-CZ 630	SIL-CZO 630
710	AVM 35	M. FEET Ø710	WIRE GUARD Ø710	FLEXIBLE CON. Ø710	STUB Ø710	KZ Ø710	SIL-CZ 710	SIL-CZO 710
800	AVM 35	M. FEET Ø800	WIRE GUARD Ø800	FLEXIBLE CON. Ø800	STUB Ø800	KZ Ø800	SIL-CZ 800	SIL-CZO 800
900	AVM 35	M. FEET Ø900	WIRE GUARD Ø900	FLEXIBLE CON. Ø900	STUB Ø900	KZ Ø900	SIL-CZ 900	SIL-CZO 900
1000	AM 75M	M. FEET Ø1000	WIRE GUARD Ø1000	FLEXIBLE CON. Ø1000	STUB Ø1000	KZ Ø1000	SIL-CZ 1000	SIL-CZO 1000

Article numbers

STUB Ø250	42517100	KZ Ø250	42516500	WIRE GUARD Ø250	42518100	M. FEET Ø250	42516100	ZŁĄCZE P-DRG Ø250	42519500
STUB Ø315	42517110	KZ Ø315	42516504	WIRE GUARD Ø315	42518110	M. FEET Ø315	42516110	ZŁĄCZE P-DRG Ø315	42519510
STUB Ø355	42517120	KZ Ø355	42516508	WIRE GUARD Ø355	42518120	M. FEET Ø355	42516120	ZŁĄCZE P-DRG Ø355	42519520
STUB Ø400	42517130	KZ Ø400	42516512	WIRE GUARD Ø400	42518130	M. FEET Ø400	42516130	ZŁĄCZE P-DRG Ø400	42519530
STUB Ø450	42517140	KZ Ø450	42516516	WIRE GUARD Ø450	42518140	M. FEET Ø450	42516140	ZŁĄCZE P-DRG Ø450	42519540
STUB Ø500	42517150	KZ Ø500	42516520	WIRE GUARD Ø500	42518150	M. FEET Ø500	42516150	ZŁĄCZE P-DRG Ø500	42519550
STUB Ø560	42517160	KZ Ø560	42516524	WIRE GUARD Ø560	42518160	M. FEET Ø560	42516160	ZŁĄCZE P-DRG Ø560	42519560
STUB Ø630	42517170	KZ Ø630	42516528	WIRE GUARD Ø630	42518170	M. FEET Ø630	42516170	ZŁĄCZE P-DRG Ø630	42519570
STUB Ø710	42517180	KZ Ø710	42516536	WIRE GUARD Ø710	42518180	M. FEET Ø710	42516180	ZŁĄCZE P-DRG Ø710	42519580
STUB Ø800	42517190	KZ Ø800	42516544	WIRE GUARD Ø800	42518190	M. FEET Ø800	42516190	ZŁĄCZE P-DRG Ø800	42519590
STUB Ø900	42517200	KZ Ø900	42516548	WIRE GUARD Ø900	42518200	M. FEET Ø900	42516200	ZŁĄCZE P-DRG Ø900	42519600
STUB Ø1000	42517210	KZ Ø1000	42516556	WIRE GUARD Ø1000	42518210	M. FEET Ø1000	42516210	ZŁĄCZE P-DRG Ø1000	42519610
AVM 20	26040960	AVM 35	26040965	AM 75M	26040960	SIL-CZ 250-250	42519020-76	SIL-CZ 250-375	42519020-77
SIL-CZ 250-500	42519020-78	SIL-CZ 315-315	42519020-79	SIL-CZ 315-473	42519020-80	SIL-CZ 315-630	42519020-81	SIL-CZ 355-355	42519020-82
SIL-CZ 355-532	42519020-83	SIL-CZ 355-710	42519020-84	SIL-CZ 400-400	42519020-31	SIL-CZ 400-600	42519020-32	SIL-CZ 400-800	42519020-33
SIL-CZ 450-450	42519020-34	SIL-CZ 450-675	42519020-35	SIL-CZ 450-900	42519020-36	SIL-CZ 500-500	42519020-37	SIL-CZ 500-750	42519020-38
SIL-CZ 500-1000	42519020-39	SIL-CZ 560-560	42519020-40	SIL-CZ 560-840	42519020-41	SIL-CZ 560-1120	42519020-42	SIL-CZ 630-630	42519020-43
SIL-CZ 630-945	42519020-44	SIL-CZ 630-1260	42519020-45	SIL-CZ 710-710	42519020-46	SIL-CZ 710-1065	42519020-47	SIL-CZ 710-1420	42519020-48
SIL-CZ 800-800	42519020-49	SIL-CZ 800-1200	42519020-50	SIL-CZ 800-1600	42519020-51	SIL-CZ 900-900	42519020-52	SIL-CZ 900-1350	42519020-53
SIL-CZ 900-1800	42519020-54	SIL-CZ 1000-1000	42519020-55	SIL-CZ 1000-1500	42519020-56	SIL-CZ 1000-2000	42519020-57	SIL-CZO 250-250	42519020-67
SIL-CZO 250-375	42519020-68	SIL-CZO 250-500	42519020-69	SIL-CZO 315-315	42519020-70	SIL-CZO 315-472	42519020-71	SIL-CZO 315-630	42519020-72
SIL-CZO 355-355	42519020-73	SIL-CZO 355-532	42519020-74	SIL-CZO 355-710	42519020-75	SIL-CZO 400-400	42519020-01	SIL-CZO 400-600	42519020-02
SIL-CZO 400-800	42519020-03	SIL-CZO 450-450	42519020-04	SIL-CZO 450-675	42519020-05	SIL-CZO 450-900	42519020-06	SIL-CZO 500-500	42519020-07
SIL-CZO 500-750	42519020-08	SIL-CZO 500-1000	42519020-09	SIL-CZO 560-560	42519020-10	SIL-CZO 560-840	42519020-11	SIL-CZO 560-1120	42519020-12
SIL-CZO 630-630	42519020-13	SIL-CZO 630-945	42519020-14	SIL-CZO 630-1260	42519020-15	SIL-CZO 710-710	42519020-16	SIL-CZO 710-1065	42519020-17
SIL-CZO 710-1420	42519020-18	SIL-CZO 800-800	42519020-19	SIL-CZO 800-1200	42519020-20	SIL-CZO 800-1600	42519020-21	SIL-CZO 900-900	42519020-22
SIL-CZO 900-1350	42519020-23	SIL-CZO 900-1800	42519020-24	SIL-CZO 1000-1000	42519020-25	SIL-CZO 1000-1500	42519020-26		



ELECTRICAL ACCESSORIES - SINGLE-PHASE MOTORS

Fan	wall thermostat	duct thermostat	pollution sensor	hygostat	thyristor regulator	
	TS	TK-1	SQA	HIG-2	REB N	REB NE
AFC/2-315-037S	TS	TK-1	SQA	HIG-2	REB-2.5 N	REB-2.5 NE
AFC/2-355-055S	TS	TK-1	SQA	HIG-2	REB-5	-

Fan	11-stage thyristor regulator	2-step 6-speed thyristor controller	ERV	transformer regulator		2-position transformer regulator	
	IRF	RND-1		RMB	RVS	SC2	SC2A
AFC/2-315-037S	IRF-900	RND-1	ERV-3	RMB-3.5	RVS-3	SC2-1-25L25	SC2A1-25L25
AFC/2-355-055S	IRF-900	-	ERV-5	RMB-8	RVS-5	SC2-1-35L25	SC2A1-35L25

ELECTRICAL ACCESSORIES - THREE-PHASE MOTORS

Fan	wall thermostat	duct thermostat	pollution sensor	hygostat	inverter
	TS	TK-1	SQA	HIG-2	
AFC/2-250-025T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.4kW
AFC/2-315-037T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.4kW
AFC/2-315-055T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.75kW
AFC/2-355-055T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 0.75kW
AFC/2-355-110T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 1.5kW
AFC/2-400-110T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 1.5kW
AFC/2-450-220T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 2.2kW
AFC/2-450-300T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFC/2-500-300T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFC/4-560-150T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 1.5kW
AFC/4-630-220T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 2.2kW
AFC/4-710-400T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFC/4-800-400T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFC/4-900-400T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 4.0kW
AFC/4-900-750T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 7.5kW
AFC/4-1000-1100T	TS + contactor	TK-1 + contactor	SQA + contactor	HIG-2 + contactor	L 11.0kW

Article numbers

ERV-3	40025046	L 1.5kW	40016322	REB-2.5 NE	40025040	RVS-5	40025235	TK-1	40025330
ERV-5	40025053	L 11.0kW	40016382	REB-5	40025051	SC2-1-25L25	40025252	TS	40025345
HIG-2	40025150	L 2.2kW	40016332	RMB-3.5	40025070	SC2-1-35L25	40025254		
IRF-900	40015154	L 4.0kW	40016352	RMB-8	40025080	SC2A1-25L25	40025253		
L 0.4kW	40016302	L 7.5kW	40016372	RND-1	40025530	SC2A1-35L25	40025255		
L 0.75kW	40016312	REB-2.5 N	40025030	RVS-3	40025234	SQA	40025140		

