

## APPLICATION

Fan designed for transporting non-aggressive and non-explosive gases without contamination. Typical applications:

- exhaust and supply ventilation in ventilation units or individual ventilation systems,
- drying, cooling and ventilation systems,
- air filtration systems, eg painting walls,
- pneumatic transport.

## CONSTRUCTION

- two low pressure, directly drive centrifugal fans,
- the impeller is welded from galvanized steel sheet with forward curved blades, dynamically balanced according to ISO 1940-1,
- the housing is cast in aluminum alloy,
- protective mesh at the inlet,
- standard color of the fan is gray RAL7042,
- motor mounting feet in the 215 to 250 models,
- standard configuration LG/RD 90,
- maximum temperature of the transported medium is 30°C,
- ambient temperature range from -20°C to + 30°C.

## MOTOR

- Power supply - AC 230/400V 50Hz or 40 /690V 50Hz (depending on fan model and motor power),
- degree of protection IP55,
- insulation class F,
- three-phase motors are adapted for frequency converter.

## SPECIAL EXECUTION

- optional configuration LG/RD,
- color other than standard.



## TECHNICAL CHARACTERISTICS

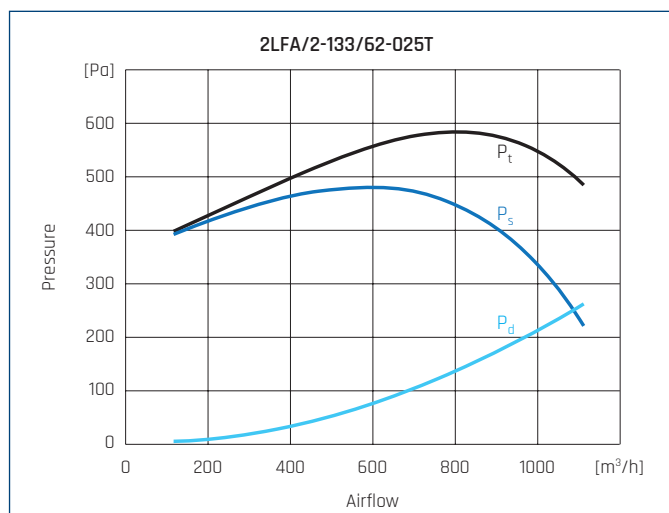
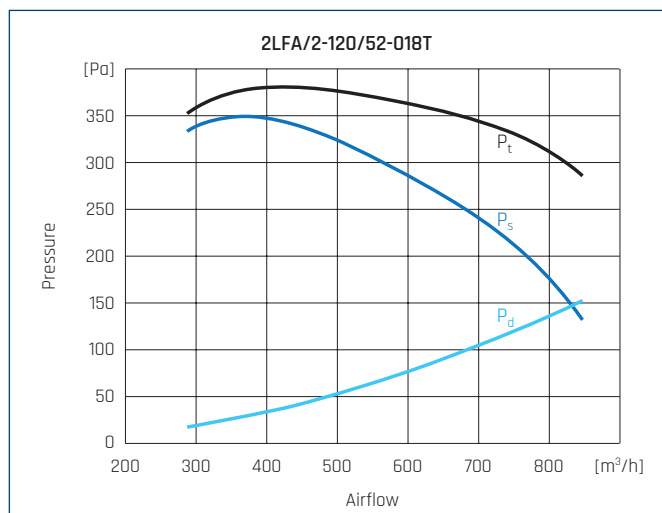
Type	airflow max	pressure max	maximum power	speed	maximum absorbed current	voltage	sound pressure level*	weight	ErP	article number
	[m³/h]	[Pa]	[kW]	[r.p.m.]	[A]	[V]	[dB(A)]	[kg]		
2LFA/2-120/52-018T	850	380	0,18	2 790	0,6	230/400	66	8,5	no subject to	435010160
2LFA/2-133/62-025T	1 100	580	0,25	2 810	0,7	230/400	69	11	2015	435010162
2LFA/2-146/62-037T	1 200	690	0,37	2 910	0,9	230/400	70	12,5	2015	435010164
2LFA/2-160/75-055T	1 500	870	0,55	2 900	1,65	230/400	71	17	2015	435010166
2LFA/2-160A/62-075T	1 150	860	0,75	2 890	2,2	230/400	72	26	2015	435010168
2LFA/2-180/62-075T	1 850	980	0,75	2 890	2,2	230/400	77	22	2015	435010170
2LFA/2-180/85-150T	3 250	1 100	1,5	2 925	3	400	79	36	2015	435010172
2LFA/2-200/74-220T	3 450	1 350	2,2	2 910	4,3	400	80	43	2015	435010174
2LFA/2-215/102-300T	6 000	1 460	3	2 915	5,8	400	82	45	2015	435010176
2LFA/2-225/104-400T	5 650	1 730	4	2 925	7,4	400	83	63	2015	435010178
2LFA/2-250/114-750T	9 100	2 225	7,5	2 940	13,3	400	84	118	2015	435010180

\* sound pressure measured at a distance of 1,5m from the fan at  $q=2/3 \cdot q_{max}$

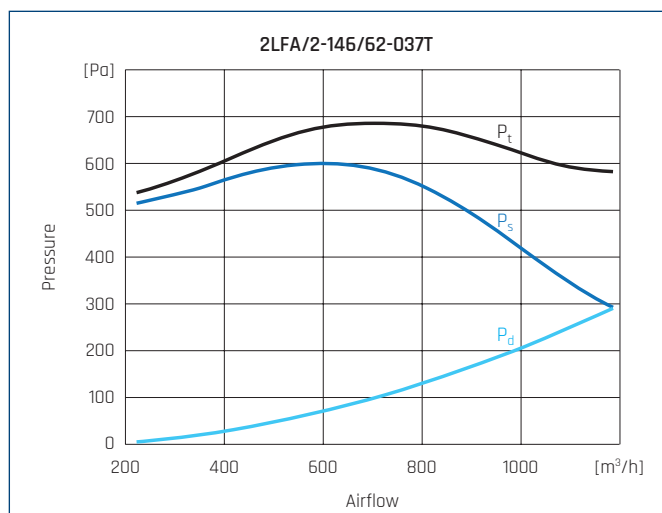
## PERFORMANCE CURVES

- $p_t$  - total pressure
- $p_s$  - static pressure
- $p_d$  - dynamic pressure

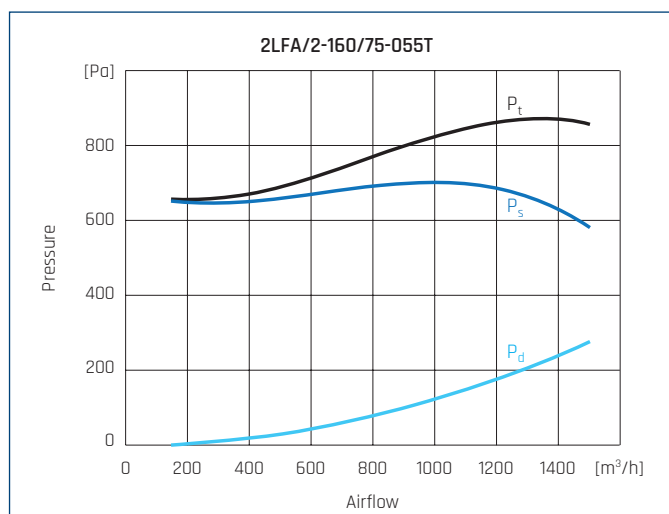
- MC** Measurement category
- EC** Efficiency category
- VSD** Speed control: supplied with the fan
- SR** Specific ratio
- $\eta$  [%] Efficiency
- N** Efficiency grade
- [kW] Absorbed power
- [m<sup>3</sup>/h] Airflow
- [Pa] Static pressure/całkowite
- [RPM] Speed



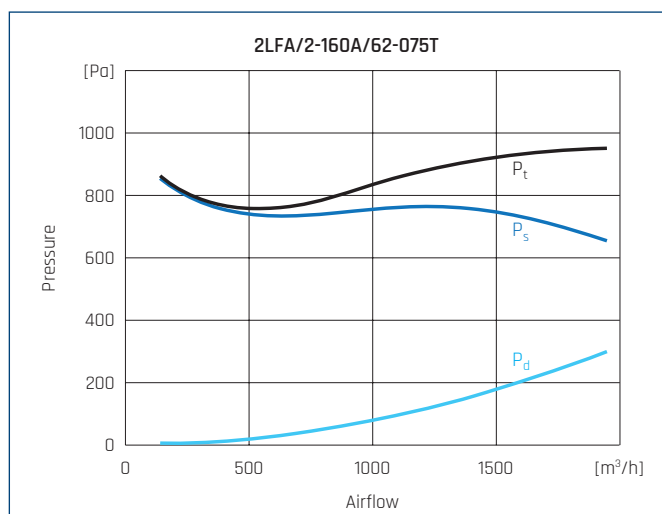
MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
B	total	NO	1	43,5	53,5	0,27	730	580	2810



MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
B	total	NO	1	39,6	49,1	0,32	761	595	2910

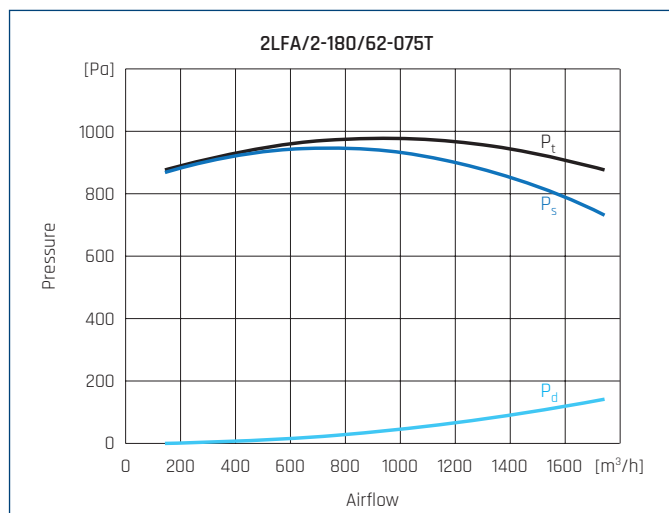


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
B	total	NO	1	41,3	49,1	0,59	1236	712	2900

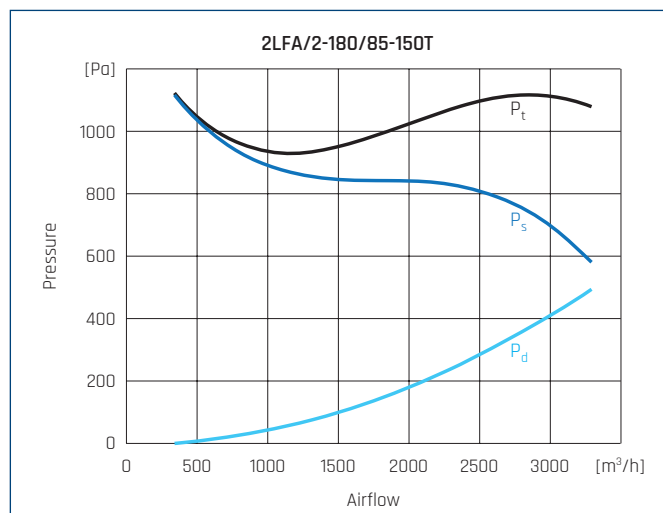


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m <sup>3</sup> /h]	[Pa]	[RPM]
B	total	NO	1	50,3	58,8	0,69	1369	915	2890

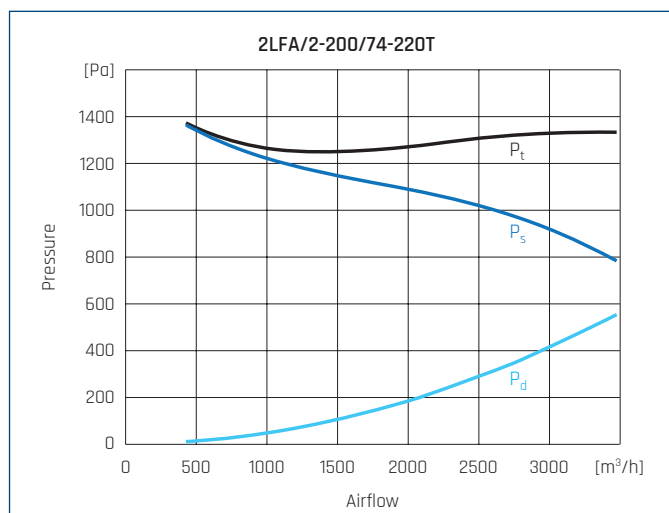
## PERFORMANCE CURVES



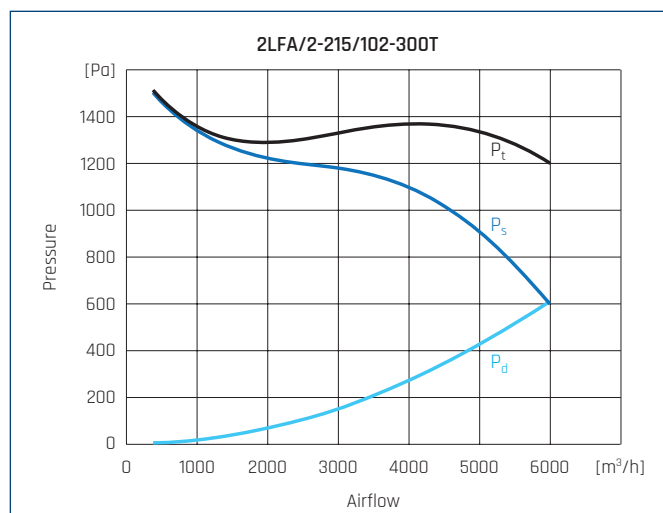
MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	total	NO	1	42,1	49,5	0,68	1045	987	2890



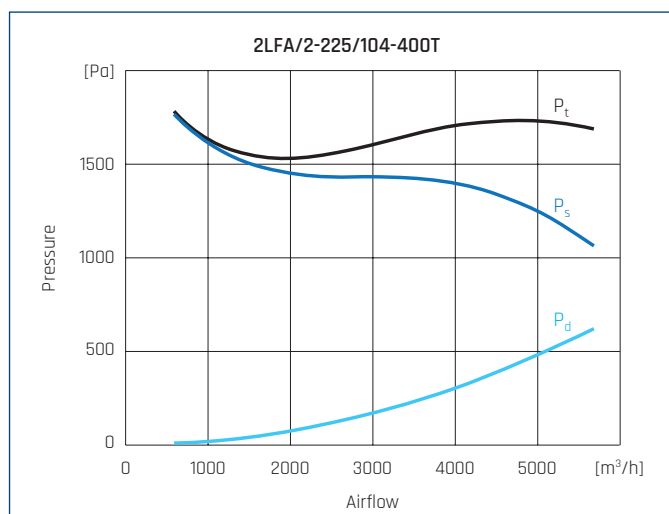
MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	total	NO	1	51,6	56,7	1,55	2593	1110	2925



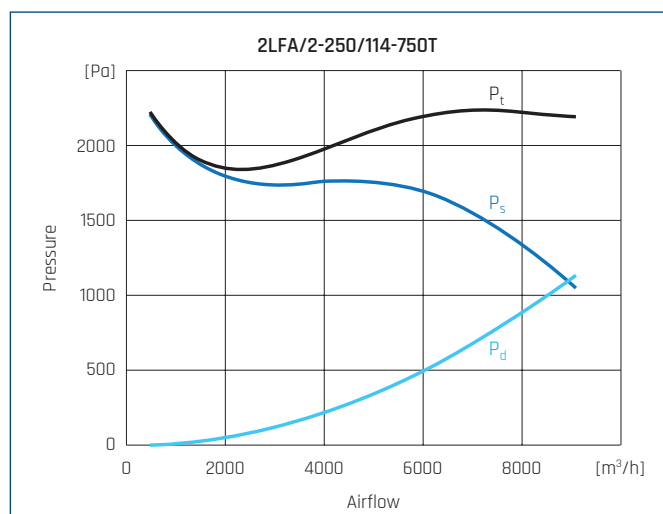
MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	total	NO	1	47,3	51,7	2,02	2614	1315	2910



MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	total	NO	1	47,8	51,4	2,75	3439	1376	2915

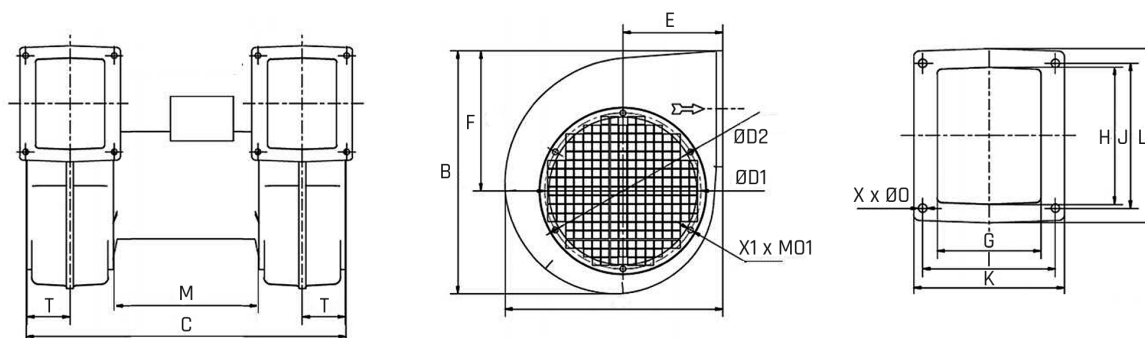


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	total	NO	1	49,1	51,8	3,77	3893	1711	2925

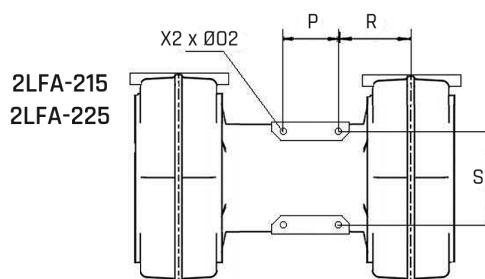
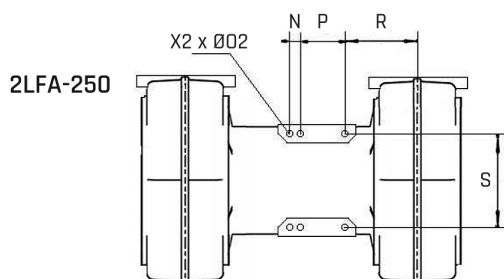


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	total	NO	1	53,6	54,4	7,47	6536	2206	2940

## DIMENSIONS [mm]

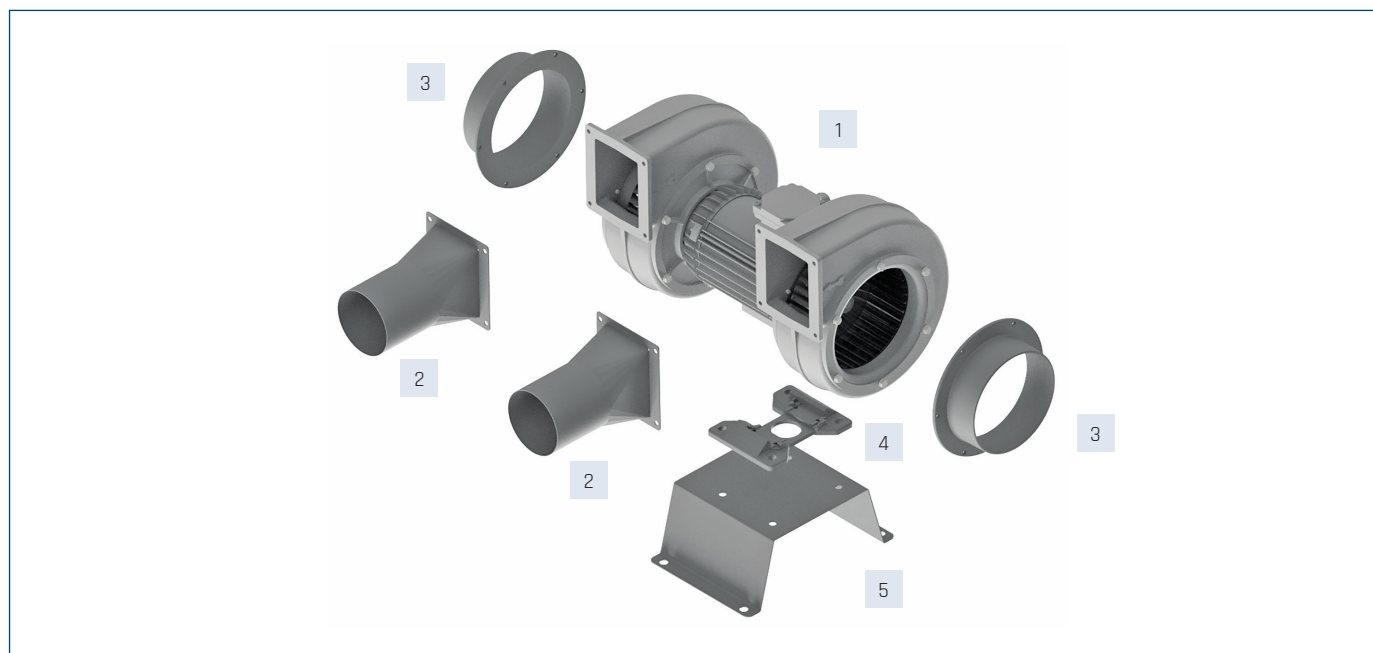


### MOTORS MOUNTING FEET



Type	A	B	C	ØD1	ØD2	E	F	G	H	I	J	K	L	M	XxØ0	X1xM01	X2xØ02	N	P	R	S	T
2LFA/2-120/52-018T	254	247	366	157	173	130	135	86	86	96	96	112	114	158	8 x Ø7	4 x M5	-	-	-	-	-	56
2LFA/2-133/62-025T	254	247	390	157	173	130	135	86	86	96	96	112	114	182	8 x Ø7	4 x M5	-	-	-	-	-	56
2LFA/2-146/62-037T	254	247	408	157	173	130	135	86	86	96	96	112	114	200	8 x Ø7	4 x M5	-	-	-	-	-	56
2LFA/2-160/75-055T	271	294	440	194	208	124	166	86	113	110	120	125	144	205	8 x Ø7	6 x M6	-	-	-	-	-	62
2LFA/2-160A/62-075T	286	296	519	176	192	140	169	110	110	115	115	140	146	264	8 x Ø9	4 x M5	-	-	-	-	-	70
2LFA/2-180/62-075T	271	294	466	194	208	124	166	86	113	110	120	125	144	231	8 x Ø7	6 x M6	-	-	-	-	-	62
2LFA/2-180/85-150T	349	356	587	230	240	166	209	125	127	130	130	155	157	288	8 x Ø7	6 x M6	-	-	-	-	-	78
2LFA/2-200/74-220T	349	356	598	230	240	166	209	125	127	130	130	155	157	313	8 x Ø7	6 x M6	-	-	-	-	-	78
2LFA/2-215/102-300T	363	343	747	240	250	185	193	170	153	180	160	210	194	357	8 x Ø7	8 x M6	4 x Ø12	-	140	166	160	105
2LFA/2-225/104-400T	399	436	696	256	270	170	251	155	158	166	166	190	190	340	8 x Ø12	8 x M5	4 x Ø12	-	140	156	190	95
2LFA/2-250/114-750T	460	479	824	295	310	220	275	170	170	196	196	220	220	408	8 x Ø11	8 x M6	6 x Ø12	38	140	182	216	98

## ACCESSORY ASSEMBLY



1	2	3	4	5
Type	outlet connection	suction connection	motor mounting feet	motor base
2LFA/2-120/52-018T	24510047-11 (Ø100)	24510047-12 (Ø100)	30624020-02	24510041
2LFA/2-133/62-025T	24510047-11 (Ø100)	24510047-12 (Ø100)	30724020	24510042
2LFA/2-146/62-037T	24510047-11 (Ø100)	24510047-12 (Ø100)	30724020	24510042
2LFA/2-160/75-055T	24510053 (Ø100)	24510049 (Ø150)	30724020	24510042
2LFA/2-160A/62-075T	-	-	30824020	24510081
2LFA/2-180/62-075T	24510053 (Ø100)	24510094-01 (Ø160)	30824020	24510081
2LFA/2-180/85-150T	24510054 (Ø125)	24510085-02 (Ø200)	24510083-01	24510083
2LFA/2-200/74-220T	24510054 (Ø125)	24510085-02 (Ø200)	24510083-01	24510083
2LFA/2-215/102-300T	24510056 (Ø200)	24510085-03 (Ø200)	-	24510086
2LFA/2-225/104-400T	24510057 (Ø160)	25070061-07 (Ø200)	-	24510087
2LFA/2-250/114-750T	24510058 (Ø250)	42517310 (Ø250)	-	24510088

## ELECTRICAL ACCESSORY

Type	Inverter	Service switch
2LFA/2-120/52-018T	L 0.4kW	R-S 3-F + SP, 10A
2LFA/2-133/62-025T	L 0.4kW	R-S 3-F + SP, 10A
2LFA/2-146/62-037T	L 0.4kW	R-S 3-F + SP, 10A
2LFA/2-160/75-055T	L 0.75kW	R-S 3-F + SP, 10A
2LFA/2-160A/62-075T	L 0.75kW	R-S 3-F + SP, 10A
2LFA/2-180/62-075T	L 0.75kW	R-S 3-F + SP, 10A
2LFA/2-180/85-150T	L 1.5kW	R-S 3-F + SP, 10A
2LFA/2-200/74-220T	L 2.2kW	R-S 3-F + SP, 10A
2LFA/2-215/102-300T	L 4.0kW	R-S 3-F + SP, 10A
2LFA/2-225/104-400T	L 4.0kW	R-S 3-F + SP, 10A
2LFA/2-250/114-750T	L 7.5kW	R-S 3-F + SP, 16A

### Article numbers

L 0.4kW	40016302	L 5.5kW	40016362
L 0.75kW	40016312	L 7.5kW	40016372
L 1.5kW	40016322	R-S 3-F + SP, 10A	91040908-01
L 2.2kW	40016332	R-S 3-F + SP, 16A	91040908
L 4.0kW	40016352		



inverter

service switch