



# CAST

## High-pressure centrifugal fans

### Construction characteristics

- Sheet steel housing.
- Sheet steel impeller with blades designed to transport powder and solid material.
- Max. airflow temperature: 120°C.a
- Asynchronous motors, with squirrel-cage rotor.  
Standard models supplied with three-phase 230/400V, 50 Hz up to 5.5 HP, and 400/690V. 50 HZ FOR MORE POWERFUL UNITS.  
Class F electrical insulation.  
IP-55 protection.
- Corrosion-proof finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.
- On request:
  - ATEX category 2 certification for explosive atmospheres, CE mark
  - CE II 2 G/D EEx e or d.
  - Fan capable of a maximum air flow temperature of 250°C.

**NEW**

### Technical characteristics

Model	Velocity (r/min)	Max. admissible current (A)			Installed power (kW)	Max. airflow (m3/h)	Sound level pressure dB(A)	Approx. weight Kg.
		230V	400V	690V				
CAST-242-2T-0,5	2740	1,92	1,11		0,37	350	70	31,0
CAST-248-2T-1	2855	3,00	1,73		0,75	200	73	45,0
CAST-248-2T-1,5	2845	4,16	2,40		1,10	600	76	46,5
CAST-254-2T-1,5	2845	4,16	2,40		1,10	400	75	56,5
CAST-254-2T-2	2860	5,63	3,25		1,50	600	77	61,5
CAST-254-2T-3	2880	7,97	4,60		2,20	800	79	63,0
CAST-260-2T-2	2860	5,63	3,25		1,50	400	81	75,0
CAST-260-2T-3	2880	7,97	4,60		2,20	550	83	78,0
CAST-463-2T-5,5	2900	13,34	7,70		4,00	700	82	88,5
CAST-463-2T-7,5	2855		10,50	6,10	5,50	1460	83	95,5
CAST-467-2T-7,5	2855		10,50	6,10	5,50	1050	84	117,5
CAST-467-2T-10	2855		13,90	8,00	7,50	1840	85	122,5
CAST-571-2T-10	2855		13,90	8,00	7,50	1250	86	144,0
CAST-571-2T-15	2930		20,00	11,50	11,00	2700	87	175,0
CAST-640-2T-2	2860	5,63	3,25		1,50	1260	81	51,5
CAST-645-2T-3	2880	7,97	4,60		2,20	1400	82	62,5
CAST-645-2T-4	2895		10,57	6,10	3,00	2420	83	69,5
CAST-650-2T-5,5	2900	13,34	7,70		4,00	1700	84	89,0
CAST-650-2T-7,5	2855		10,50	6,10	5,50	3060	85	96,0
CAST-852-2T-7,5	2855		10,50	6,10	5,50	1800	87	96,0
CAST-852-2T-10	2855		13,90	8,00	7,50	3100	88	101,0
CAST-856-2T-15	2930		20,00	11,50	11,00	4800	85	157,5
CAST-863-2T-15	2930		20,00	11,50	11,00	2850	85	168,0
CAST-863-2T-20	2920		26,50	15,30	15,00	4500	86	179,0
CAST-971-2T-25	2920		32,00	18,50	18,50	2800	90	299,0
CAST-971-2T-30	2930		39,00	22,50	22,00	4000	91	324,0
CAST-971-2T-40	2955		53,00	30,60	30,00	7000	92	380,0
CAST-1250-2T-20/A	2920		26,50	15,30	15,00	8400	87	210,0
CAST-1456-2T-30/A	2930		39,00	22,50	22,00	10800	88	290,0
CAST-1663-2T-40/A	2955		53,00	30,60	30,00	12000	90	350,0

### Acoustic characteristics

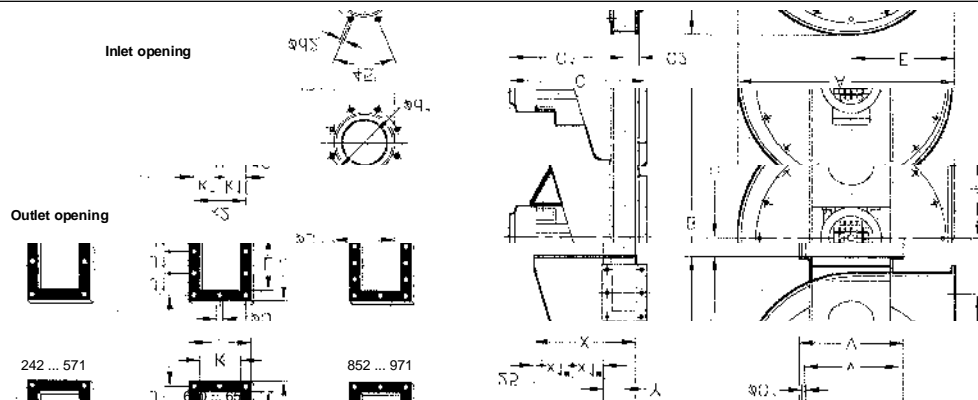
The values shown are calculated using free-field sound pressure levels in dB (A), at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5 m.

Sound power spectrum Lw(A) in dB(A) by frequency band in Hz.

Model	63	125	250	500	1000	2000	4000	8000	Model	63	125	250	500	1000	2000	4000	8000
242	58	67	67	73	80	80	72	63	645-3	65	79	85	87	92	90	85	78
248-1	61	70	70	76	83	83	75	66	645-4	66	80	86	88	93	91	86	79
248-1,5	64	73	73	79	86	86	78	69	650-5,5	69	82	89	91	96	94	89	82
254-1,5	65	74	74	80	87	87	79	70	650-7,5	70	83	90	92	97	95	90	83
254-2	67	76	76	82	89	89	81	72	852-7,5	74	86	88	100	97	94	90	85
254-3	69	78	78	84	91	91	83	74	852-10	75	87	89	101	98	95	91	86
260-2	71	80	80	86	93	93	85	76	856	72	84	86	98	95	92	88	83
260-3	73	82	82	88	95	95	87	78	863-15	74	86	87	99	97	93	90	84
463-5,5	72	81	81	87	94	94	86	77	863-20	75	87	88	100	98	94	91	85
463-7,5	73	82	82	88	95	95	87	78	971-25	79	91	92	104	102	98	95	89
467-7,5	76	84	85	91	98	98	90	81	971-30	80	92	93	105	103	99	96	90
467-10	77	85	86	92	99	99	91	82	971-40	81	93	94	106	104	100	97	91
571-10	78	86	87	93	100	100	92	83	1250	74	86	88	100	97	94	90	85
571-15	79	87	88	94	101	101	93	84	1456	77	89	90	102	100	96	93	87
640	64	80	86	85	91	89	84	77	1663	79	91	92	104	102	98	95	89

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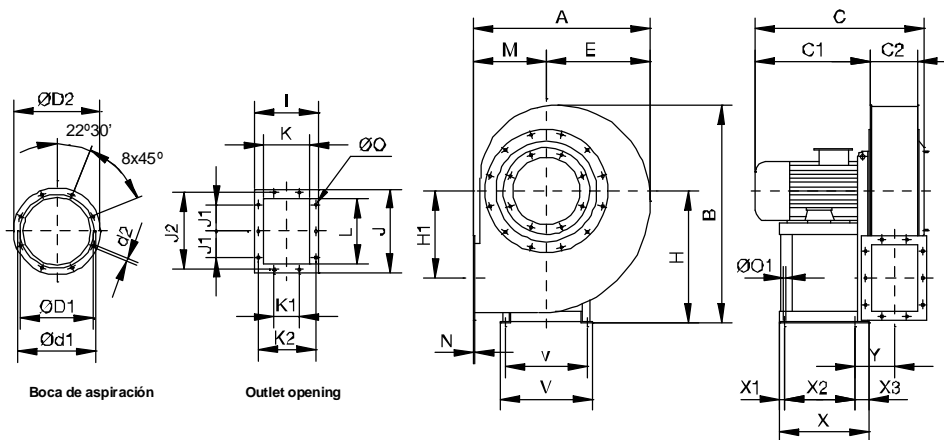
Dimensions mm



Model	A	B	C	C1	C2	ØD1*	Ød1	Ød2	E	H	H1	I	J	J1	K	k1	k2	L	ØO	ØO1	V	v	X	x1	Y
CAST-242-2T-0,5	576	662	310	247	33	100	130	M.8	270	375	270	120	155	65	60	-	95	95	11	12	305	275	260	75	61
CAST-248-2T-1/1,5	639	728	340	274	36	112	140	M.8	300	410	297	126	165	70	66	-	101	105	11	12	320	290	300	90	64
CAST-254-2T-1,5	699	788	365	294,5	40,5	125	155	M.8	330	440	322	135	175	75	75	-	110	115	11	14	340	310	330	100	68,5
CAST-254-2T-2	699	788	413	342,5	40,5	125	155	M.8	330	440	322	135	175	75	75	-	110	115	11	14	340	310	330	100	68,5
CAST-254-2T-3	699	788	443	372,5	40,5	125	155	M.8	330	440	322	135	175	75	75	-	110	115	11	14	340	310	330	100	68,5
CAST-260-2T-2/3	782	875	419	343,5	47,5	150	175	M.8	370	485	362	145	185	80	85	-	120	125	11	14	380	350	370	115	73,5
CAST-463-2T-5,5	782	875	459	383,5	45,5	200	240	M.8	370	485	362	145	185	80	85	-	120	125	11	14	380	350	370	115	73,5
CAST-463-2T-7,5	782	875	517	441,5	45,5	200	240	M.8	370	485	362	145	185	80	85	-	120	125	11	14	380	350	370	115	73,5
CAST-467-2T-7,5/10	833	945	530	442	48	224	258	M.8	390	530	395	150	190	82,5	90	-	125	130	11	14	405	375	300	125	76
CAST-571-2T-10	873	995	536	445,5	50,5	250	275	M.8	410	560	410	155	205	90	95	-	130	145	11	14	430	400	350	150	79,5
CAST-571-2T-15	873	995	671	580,5	50,5	250	275	M.8	410	560	410	155	205	90	95	-	130	145	11	14	430	400	410	180	79,5
CAST-640-2T-2	639	728	446	350,5	65,5	250	275	M.8	300	410	250	185	260	78	125	80	-	200	11	14	340	310	350	100	93,5
CAST-645-2T-3	699	788	461	358	73	250	275	M.8	330	440	267,5	200	284	86	140	87,5	-	224	11	14	380	350	380	115	101
CAST-645-2T-4	699	788	491	388	73	250	275	M.8	330	440	267,5	200	284	86	140	87,5	-	224	11	14	380	350	380	115	101
CAST-650-2T-5,5	782	875	534	421	83	250	275	M.8	370	485	300	220	310	95	160	97,5	-	250	11	14	405	375	400	125	111
CAST-650-2T-7,5	782	875	572	459	83	250	275	M.8	370	485	300	220	310	95	160	97,5	-	250	11	14	405	375	400	125	111
CAST-852-2T-7,5/10	833	945	603	470	94,5	280	310	M.8	390	530	320	240	340	78	180	107,5	-	280	11	14	430	400	350	150	122
CAST-856-2T-15	833	945	708	575	93	355	395	M.8	390	530	320	240	340	78	180	107,5	-	280	11	14	430	400	410	180	122
CAST-863-2T-15/20	873	995	728	585	103	355	410	M.8	410	560	325	260	375	87,5	200	117,5	-	315	11	14	430	400	410	180	132
CAST-971-2T-25	1012	1170	759	598	116	400	450	M.10	460	670	420	294	425	100	224	132	-	355	11	14	550	510	500	150	145
CAST-971-2T-30	1012	1170	881	720	116	400	450	M.10	460	670	420	294	425	100	224	132	-	355	11	14	550	510	500	150	145
CAST-971-2T-40	1012	1170	948	787	116	400	450	M.10	460	670	420	294	425	100	224	132	-	355	11	14	550	510	500	150	145

\* Recommended nominal tube diameter.

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Model	A	B	C	C1	C2	ØD1*	ØD2	Ød1	d2	E	H	H1	I	J	J1	J2	K	K1	K2	L	M	N	ØO	ØO1	V	v	X	X1	X2	X3	Y
CAST-1250-2T-20/A	850	1040	790	543	230	315	401	366	M8	495	630	407	304	395	125	366	224	125	273	315	355	5	11,5	14	440	400	425	30	340	55	174
CAST-1456-2T-30/A	955	1165	806	542	256	355	441	405	M8	555	710	458	330	435	125	405	250	125	300	355	400	5	11,5	14	500	450	470	35	370	65	197
CAST-1663-2T-40/A	955	1170	881	617	256	355	441	405	M8	555	710	458	330	435	125	405	250	125	300	355	400	5	11,5	16	570	510	500	40	385	75	207

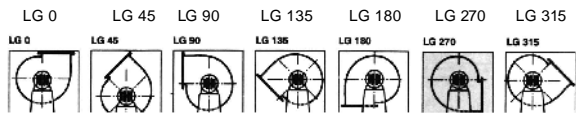
\* Recommended nominal tube diameter.



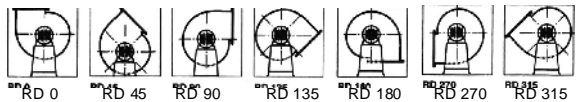
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## Orientation

LG 270 standard supply. LG180 position on demand with special fixing measurements.

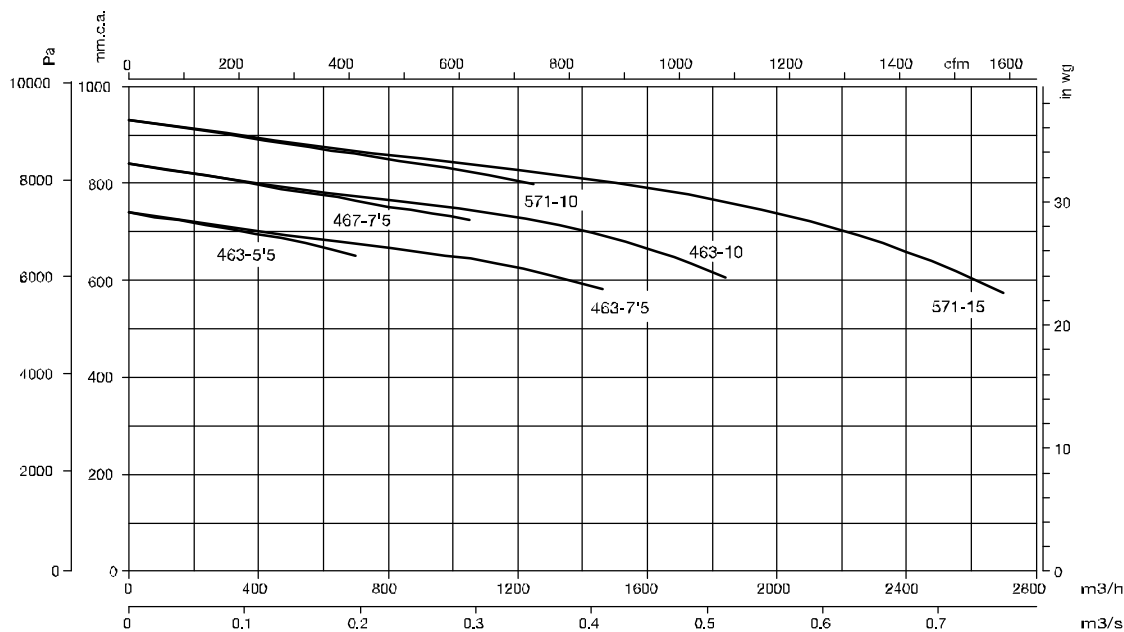
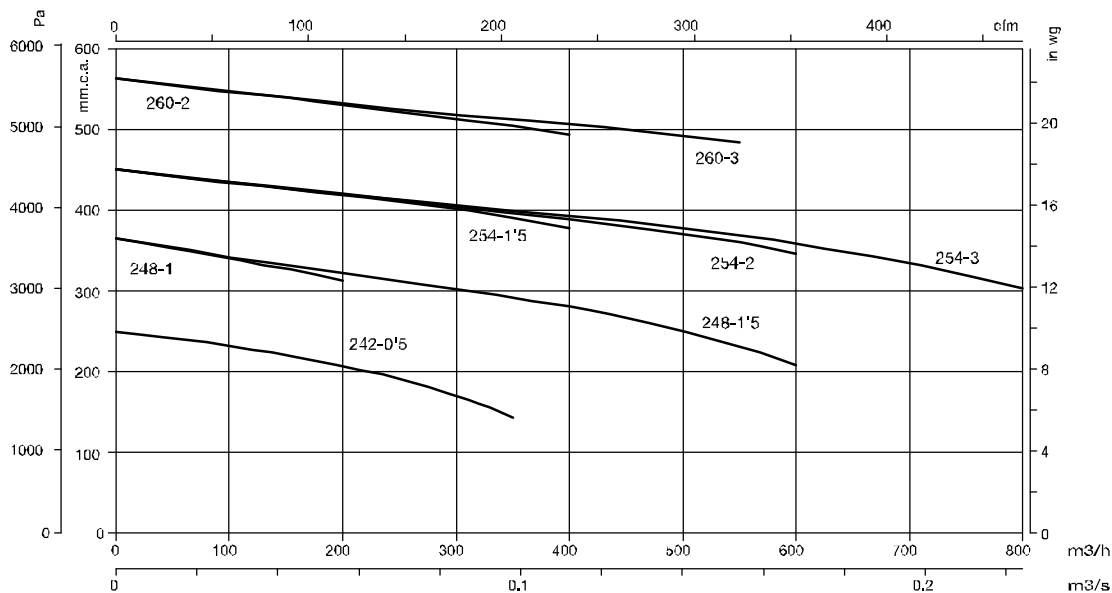


Supply on demand. RD180 position with special fixing measurements.



## Characteristics Curves

Q = Airflow in  $m^3/h$ . and  $m^3/s$ .  
Pe = Static pressure in mm.c.a. and Pa.

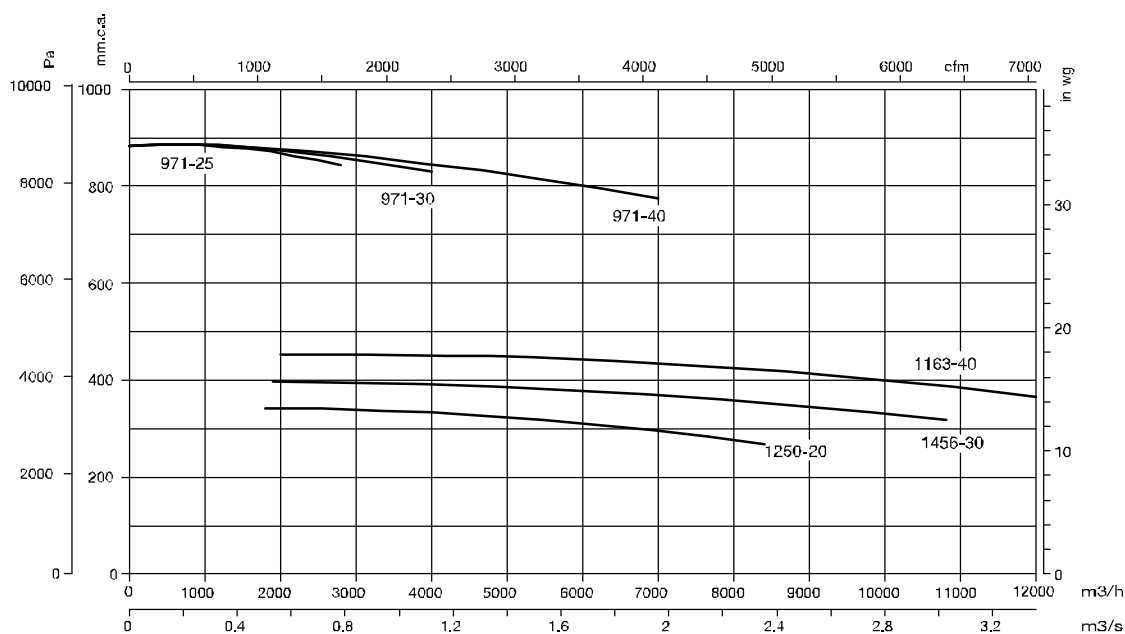
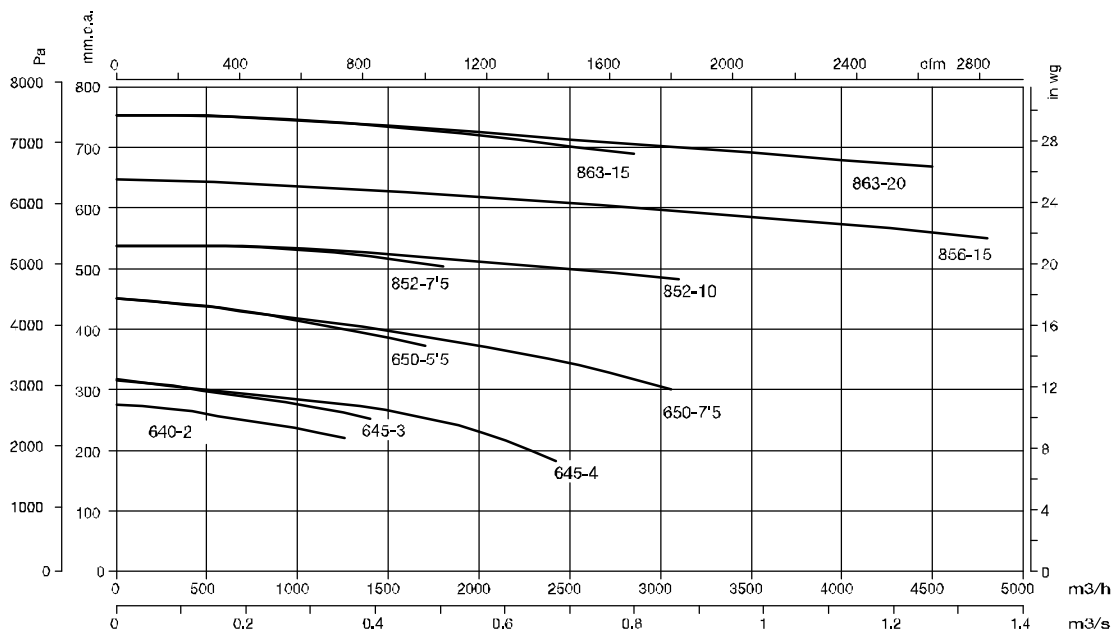


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## Characteristics Curves

Q = Airflow in m<sup>3</sup>/h. and m<sup>3</sup>/s.

Pe = Static pressure in mm.c.a. and Pa.



## Accessories

See pages 248 onwards.

