

Discharge circular duct connection



Range of single inlet direct drive centrifugal fans manufactured by injection moulding. Antistatic polypropylene housing. Motor support and anticorrosive gaskets material providing protection against possible gas leakage. High-performance antistatic polypropylene impeller with forward curved blades. Working temperature from -10°C to +50°C.

**Motors**

All motors are IP55, class F insulation. Available in 2, 4 or 6 poles. Electrical supply: Three phase 230/400V-50Hz. [See characteristics chart].

Flame proof versions in accordance to ATEX Directive for three phase models:  
 - Flame proof II2G EExdIIBT4 or EExdIICT4.

**Additional information**

The mounting frames are manufactured from:  
 Nylon (models from 14 to 25).  
 Polypropylene (models 30 and 35).  
 Galvanised sheet steel (model 42).  
 Standard supplied position: LG 0.  
 The scroll can be oriented in 8 different positions. Screws in stainless steel.

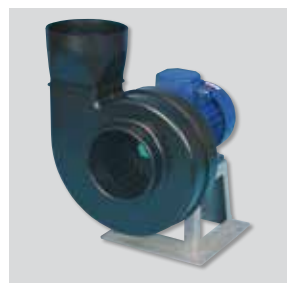


Discharge rectangular duct connection

**Specific applications**



Corrosive atmospheres



**Discharge circular duct connection**

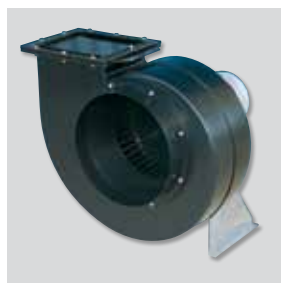
For models CMPT-14, CMPT-20 and CMPT-25.



**Discharge rectangular duct connection**

For models CMPT-30, CMPT-35, CMPT-42 and CMPT-20A

\* On request, CMPT-14, CMPT- 20 and CMPT-25 are also available with discharge rectangular duct connection.



**Tough and quality design**

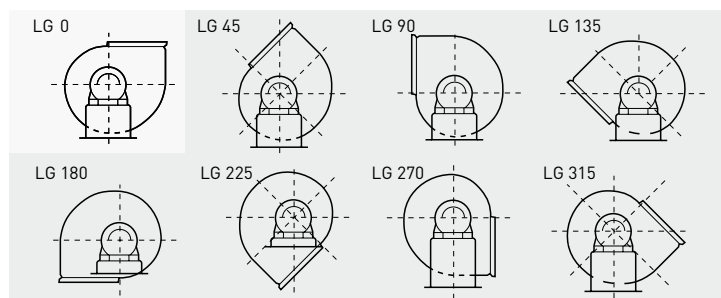
Antistatic polypropylene housing. Screws in stainless steel.



**Forward curved centrifugal impeller**

High-performance antistatic polypropylene impeller with forward curved blades.

## POSITIONS



LG 0 standard supplied position. Other LG positions configuration manufactured on request.

## TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Speed (rpm)	Motor size (mm)	Motor power (kW)	Maximum absorbed current (A)		Maximum airflow (m <sup>3</sup> /h)	Sound pressure level* (dB(A))	Weight (kg)
				230 V	400 V			
THREE PHASE 2 POLE								
CMPT/2-14-0,18 EXDIIBT4	2900	63	0,18	0,97	0,56	730	60	4,5
CMPT/2-20-1,1 EXDIIBT4	2900	80	1,1	4,33	2,5	2.100	72	13
CMPT/2-20A-0,55 EXDIIBT4	2900	71	0,55	2,34	1,35	900	68	11
THREE PHASE 4 POLE								
CMPT/4-14-0,18 EXDIIBT4	1450	63	0,18	1,09	0,63	350	45	4,5
CMPT/4-20-0,18 EXDIIBT4	1450	63	0,18	1,09	0,63	1.220	60	8
CMPT/4-25-0,55 EXDIIBT4	1450	80	0,55	2,42	1,4	2.680	60	15
CMPT/4-30-1,1 EXDIIBT4	1450	90	1,1	4,49	2,59	4.240	69	29
CMPT/4-35-3 EXDIIBT4	1450	100	3	11,22	6,48	6.470	72	48
CMPT/4-42-5,5 EXDIIBT4	1450	132	5,5	-	11,1	8.500	75	88
CMPT/4-42-7,5 EXDIIBT4	1450	132	7,5	-	14,8	11.220	80	102
CMPT/4-20A-0,25 EXDIIBT4	1450	63	0,25	1,09	0,63	530	54	9
THREE PHASE 6 POLE								
CMPT/6-20-0,09 EXDIIBT4	950	71	0,09	1,11	0,64	850	51	8
CMPT/6-25-0,37 EXDIIBT4	950	80	0,37	1,11	0,64	1.810	51	13
CMPT/6-30-0,37 EXDIIBT4	950	80	0,37	1,8	1,04	2.760	60	25
CMPT/6-35-1,5 EXDIIBT4	950	90	1,5	5,63	3,25	4.780	64	42
CMPT/6-42-3 EXDIIBT4	950	132	3	11,95	6,9	8.330	71	88

\* Sound pressure dB(A), measured in free field conditions at a distance of 1,5 meters.

### ACOUSTIC CHARACTERISTICS

Sound power at the inlet and outlet at three points of the curve: low pressure (B), medium pressure (M) and high pressure (H).

<b>CMPT/2-14</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	47	52	68	67	73	73	71	66
	M	51	49	66	64	69	69	66	61
	H	52	49	65	63	68	68	64	60
Outlet	B	51	52	64	75	82	73	72	67
	M	51	50	62	72	80	70	69	64
	H	52	48	61	69	75	67	66	61

<b>CMPT/2-20</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	M	45	58	68	75	81	83	80	76
	H	47	60	70	75	79	80	77	74
Outlet	M	47	58	69	79	82	85	81	77
	H	47	56	71	81	80	83	78	75

<b>CMPT/2-20A</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	M	53	57	69	71	81	72	69	65
	H	52	56	68	70	80	71	68	64
Outlet	M	60	54	67	79	91	73	69	63
	H	60	55	67	79	91	72	68	63

<b>CMPT/4-14</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	32	37	53	52	58	58	56	51
	M	36	34	51	49	54	54	51	46
	H	37	34	50	48	53	53	49	45
Outlet	B	36	37	49	60	67	58	57	52
	M	36	35	47	57	65	55	54	49
	H	37	33	46	54	60	52	51	46

<b>CMPT/4-20</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	35	48	57	65	71	72	71	67
	M	30	43	53	60	66	68	65	61
	H	32	45	55	60	64	65	62	59
Outlet	B	38	47	57	68	71	74	71	67
	M	32	43	54	64	67	70	66	62
	H	32	41	56	66	65	68	63	60

<b>CMPT/4-25</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	46	59	65	71	77	71	70	66
	M	43	56	63	67	73	67	66	62
	H	50	57	59	63	69	63	62	57
Outlet	B	49	58	65	76	79	76	75	71
	M	45	54	62	73	76	71	70	66
	H	48	53	59	69	69	63	63	58

<b>CMPT/4-30</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	53	71	73	81	81	78	76	72
	M	52	66	69	78	78	75	73	69
	H	54	64	65	76	77	73	71	66
Outlet	B	54	65	75	82	82	79	77	72
	M	53	63	71	79	80	76	74	69
	H	51	59	68	76	76	73	71	65

<b>CMPT/4-35</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	55	66	72	82	86	84	82	77
	M	54	66	70	80	83	80	79	73
	H	55	68	70	78	80	77	75	70
Outlet	B	61	68	76	83	89	85	83	76
	M	57	66	74	81	86	82	80	72
	H	57	66	74	80	84	78	76	69

<b>CMPT/4-20A</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	M	38	42	54	56	66	57	54	50
	H	37	41	53	55	65	56	53	49
Outlet	M	45	39	52	64	76	58	54	48
	H	45	40	52	64	76	57	53	48

<b>CMPT/4-42</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	60	73	81	90	93	91	89	84
	M	60	72	79	87	90	88	85	81
	H	66	71	74	82	84	82	80	75
Outlet	B	67	75	85	90	95	93	90	84
	M	66	73	82	88	92	89	86	79
	H	67	71	79	82	85	83	80	72

<b>CMPT/6-20</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	34	47	57	62	64	60	56	53
	M	28	38	50	60	61	56	53	48
	H	28	39	50	57	57	51	47	42
Outlet	B	32	41	54	66	64	60	57	54
	M	28	36	49	63	61	56	54	50
	H	29	35	50	61	56	52	49	49

<b>CMPT/6-25</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	37	50	56	62	68	62	61	57
	M	34	47	54	58	64	58	57	53
	H	41	48	50	54	60	54	53	48
Outlet	B	40	49	56	67	70	67	66	62
	M	36	45	53	64	67	62	61	57
	H	39	44	50	60	60	54	54	49

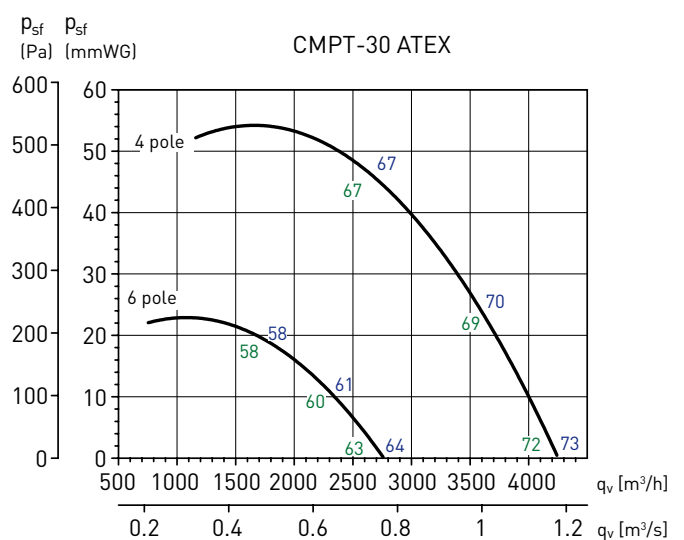
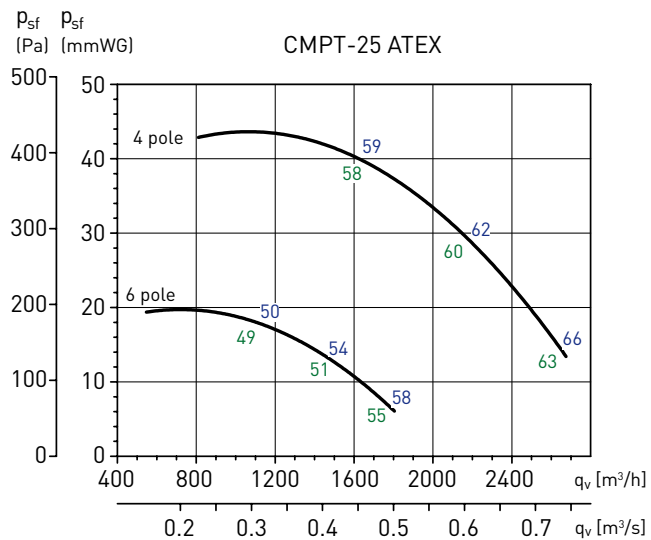
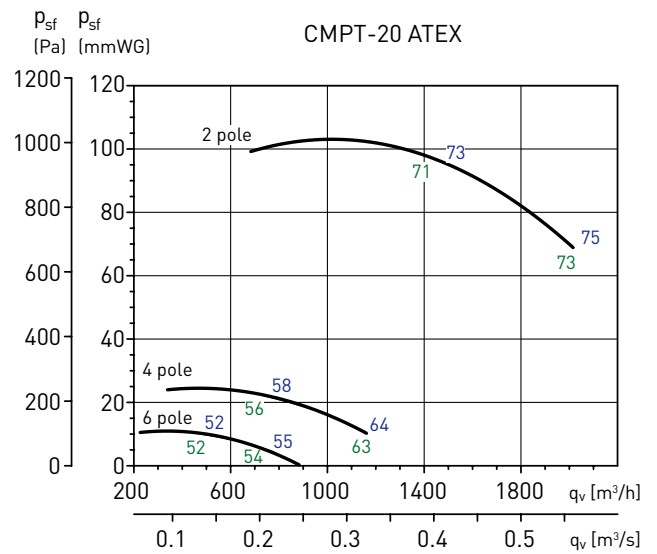
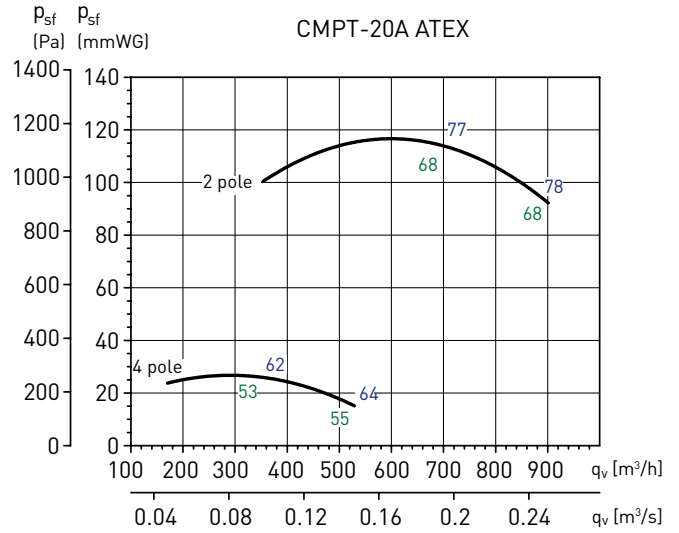
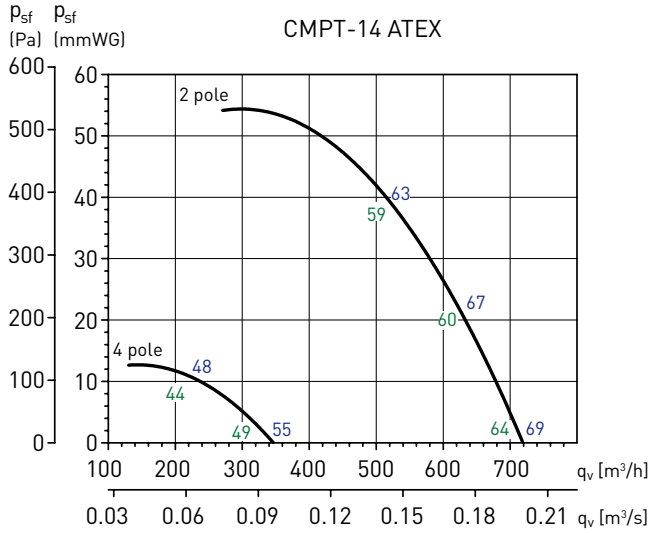
<b>CMPT/6-30</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	44	62	64	72	72	69	67	63
	M	43	57	60	69	69	66	64	60
	H	45	55	56	67	68	64	62	57
Outlet	B	45	56	66	73	73	70	68	63
	M	44	54	62	70	71	67	65	60
	H	42	50	59	67	67	64	62	56

<b>CMPT/6-35</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	46	57	63	73	77	75	73	68
	M	45	57	61	71	74	71	70	64
	H	46	59	61	69	71	68	66	61
Outlet	B	52	59	67	74	80	76	74	67
	M	48	57	65	72	77	73	71	63
	H	48	57	65	71	75	69	67	60

<b>CMPT/6-42</b>		<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>
Inlet	B	51	64	72	81	84	82	80	75
	M	51	63	70	78	81	79	76	72
	H	57	62	65	73	75	73	71	66
Outlet	B	58	66	76	81	86	84	81	75
	M	57	64	73	79	83	80	77	70
	H	58	62	70	73	76	74	71	63

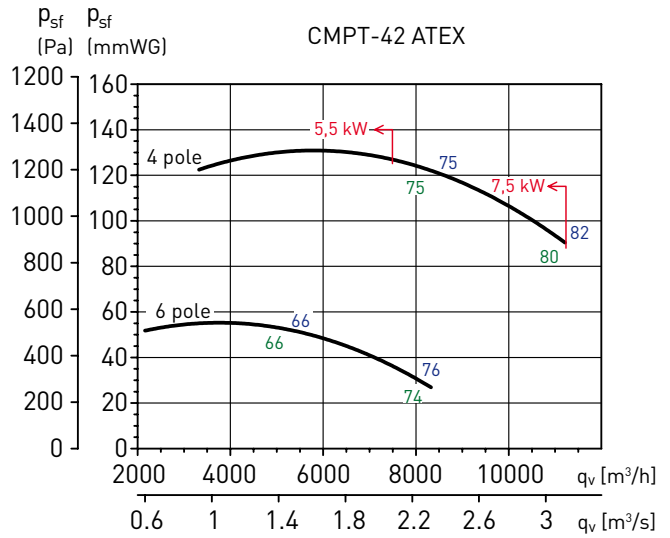
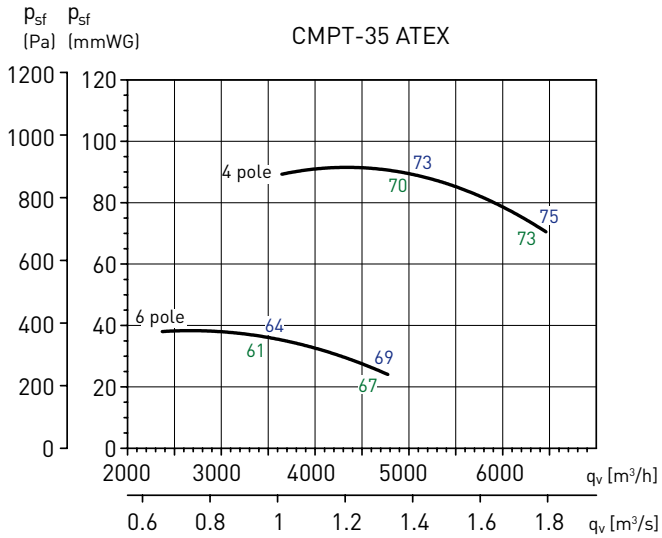
**PERFORMANCE CURVES**

- $q_v$ : Airflow in  $m^3/h$  and  $m^3/s$ .
- $p_{sf}$ : Static pressure in mmWG and Pa.
- Average sound pressure level, measured at 1,5 m at the inlet (green) and discharge (blue).
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

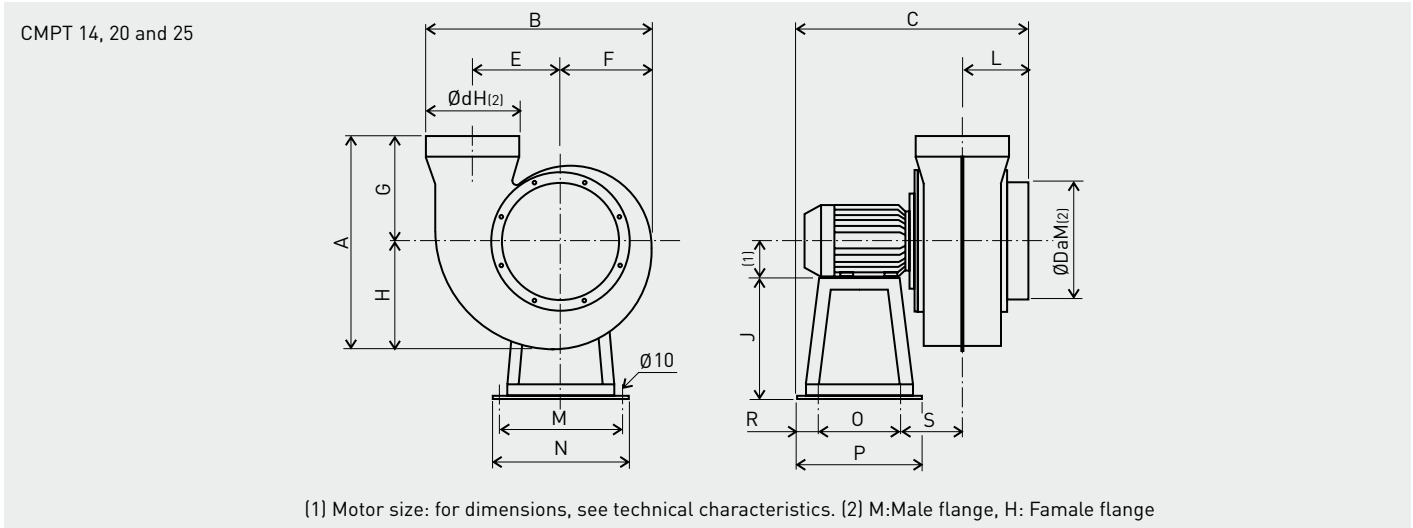


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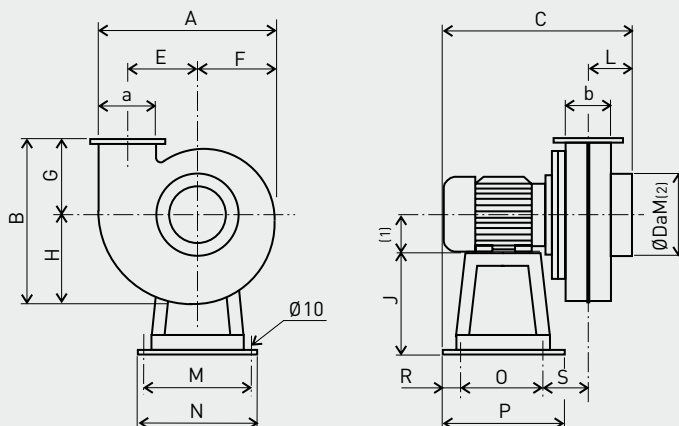
**DIMENSIONS (mm)**



Model	A	B	C	Da	E	F	G	H	J	L	M	N	O	P	R	S	a	b	d
CMPT 14	325	284	317	125	103	118	189	136	130	72	175	200	130	200	35	80	-	-	125
CMPT 20	501	418	420	200	148	170	300	201	200	120	215	240	170	240	35	95	-	-	200
CMPT 23	570	520	487	250	185	210	320	250	250	129	255	280	175	280	53	130	-	-	250

**DIMENSIONS (mm)**

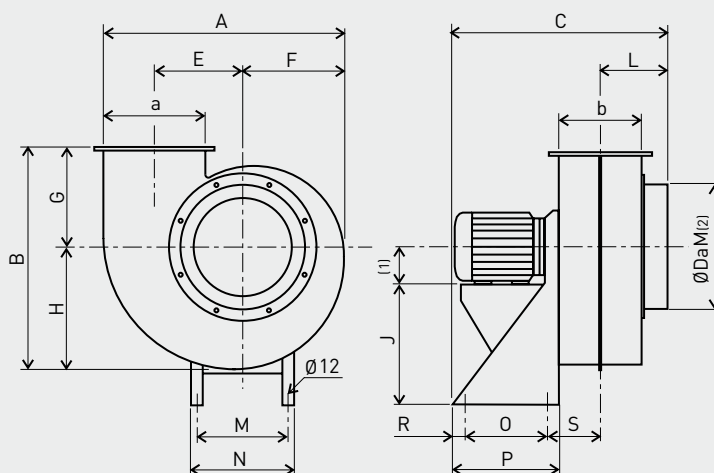
CMPT 20A



(1) Motor size: for dimensions, see technical characteristics. (2) M:Male flange.

Model	A	B	C	Da	E	F	G	H	J	L	M	N	O	P	R	S	a	b
CMPT 20A	349	325	370	160	140	157	148	177	200	85	215	240	170	240	35	80	105	90

CMPT 30, 35 and 42



(1) Motor size: for dimensions, see technical characteristics. (2) M:Male flange.

Model	A	B	C	Da	E	F	G	H	J	L	M	N	O	P	R	S	a	b
CMPT 30	593	515	565	315	222	251	215	300	310	185	234	260	175	275	50	155	240	195
CMPT 35	696	626	660	355	259	297	275	353	320	210	285	380	200	300	50	170	280	225
CMPT 42	835	724	810	400	310	357	300	424	410	245	315	350	250	350	50	197	335	270