



## VORTICENT C E RANGE

### Centrifugal fans

Industrial centrifugal fans, available in single and three-phase versions for ventilation systems characterized by high pressure drops in commercial and industrial premises, such as public toilets, shops, laboratories, laundries, restaurants, theatres and ballrooms.

#### Key features

- Robust and weatherproof construction.
- Possibility of adapting the direction of the delivery to system requirements for easier installation.
- Easy maintenance, thanks to easy removal of the impellers from the scrolls

#### Versions

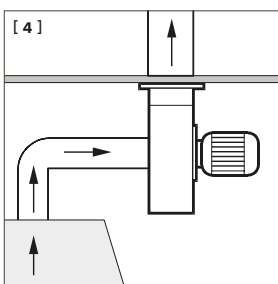
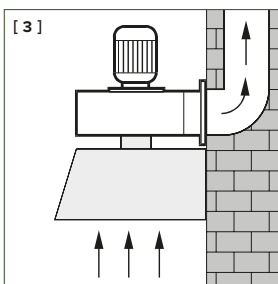
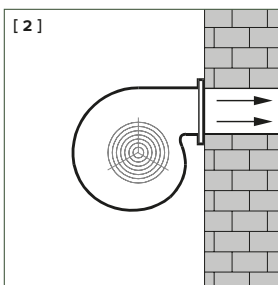
21 models, in single and three-phase versions, with 2 and 4 poles..

#### Technical features

- Painted sheet steel scrolls with many holes to allow for motor orientation into 8 alternative positions with respect to the delivery spigot, complete with coupling flange to the downstream piping.
- Ventilation ports fashioned in one piece with the respective scrolls, calibrated to optimize inlet airflow.
- Class F thermally protected asynchronous motors, with shafts turning on ball bearings with double sealing screen, characterized by high (IP55) degree of protection against dust and water, speed adjustable by Vortice controllers.
- Starting capacitors of the single-phase models comply with the EN 60252-1 standard and are third-party certified.
- Centrifugal impellers with galvanised sheet steel forward curved blades, dynamically balanced (UNI ISO 1940, Class 6.3), fitted on grooved hubs in die cast aluminium.

#### Note

- The fans of the VORTICENT C-E range comply with Reg. ErP No. 327/2011/UE.
- The fans of the VORTICENT C-E range are specifically designed for applications that envision high pressure drops. They are not suitable for handling flows characterized by significant concentrations of abrasive powders or acid or corrosive substances.



[1] Robust construction.

[2] [3] [4] These fans can be installed where there are high pressure drops. The air must not be dusty, acidic or corrosive.



TECHNICAL DATA

	PRODUCTS	CODE	V~50HZ	W	A	POLES	RPM	MAX AIRFLOW		MAX PRESSURE		Lp dB(A)* 3 m	MAX °C**	KG
								m³/h	l/s	mmH₂O	Pa			
SINGLE-PHASE	C 10/2 M	30302	230	100	0.45	2	2800	300	83.3	25.0	245.0	55.5	50	2.7
	C 15/2 M	30902	230	160	0.70	2	2800	450	125.0	45.0	441.0	59.0	50	5.0
	C 20/2 M E	30321	230	350	1.50	2	2800	810	225.0	51.1	501.0	66.0	50	6.0
	C 25/2 M E	30323	230	390	1.7	2	2800	955	265.0	59.5	584.0	66.5	50	6.8
	C 30/2 M E	30325	230	740	3.20	2	2800	1420	394.4	84.0	824.0	71.0	50	8.4
	C 30/4 M E	30327	230	132	0.582	4	1400	700	194.0	19.8	194.0	55.0	50	9.0
	C 35/4 M E	30330	230	310	1.37	4	1400	1270	353.0	33.1	325.0	61.0	50	11.0
	C 37/4 M E	30332	230	600	2.70	4	1400	2100	583.0	43.0	422.0	70.0	50	20.5
	C 40/4 M E	30334	230	870	3.80	4	1400	2700	750.0	51.0	500.0	73.0	50	21.0
	THREE-PHASE	C 10/2 T	30351	230/400	130	0.50/0.30	2	2800	270	75.0	25.0	245.0	55.5	50
C 15/2 T		30951	230/400	160	0.60/0.35	2	2800	430	119.4	43.0	422.0	59.0	50	3.3
C 20/2 T E		30322	400	330	0.54	2	2800	800	222.0	52.7	517.0	66.0	50	5.8
C 25/2 T E		30324	400	390	0.63	2	2800	970	269.0	58.0	569.0	66.5	50	6.3
C 30/2 T E		30326	400	720	1.50	2	2800	1350	375.0	85.0	834.0	71.0	50	8.1
C 30/4 T E		30328	400	110	0.19	4	1400	655	182.0	13.2	176.0	55.0	50	8.1
C 31/4 T E		30329	400	175	0.28	4	1400	825	229.0	28.7	281.0	61.0	50	9.5
C 35/4 T E		30331	400	350	0.70	4	1400	1550	430.6	34.0	334.0	61.0	50	9.3
C 37/4 T E		30333	400	600	1.00	4	1380	2050	269.5	45.1	442.3	70.0	50	20.5
C 40/4 T E		30335	400	750	1.20	4	1320	2310	641.6	51.7	507.1	73.0	50	21.0
C 45/4 T E		30336	400	1900	4.35	4	1400	4500	1250	74.0	726.0	70.5	50	23.3
C 46/4 T E		30337	400	3400	5.50	4	1400	6650	1847	83.0	814.0	76.5	30	61.0

\*Sound pressure level measured at 3 m in free field conditions in accordance with standard ISO 3741.

\*\* Maximum continuous operating temperature of the product.



# INDUSTRIAL VENTILATION

## VORTICENT C E RANGE

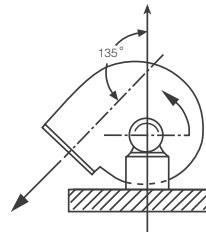
### ERP DATA DIRECTIVE N° 327/2011/UE

	PRODUCTS	CODE	CAT. MISURA	CAT. EFFICIENZA	ANNO DI INTRODUZIONE SUL MERCATO	VARIATORE	$\eta$	N.	Pe kW	q m <sup>3</sup> /h	BEP* p Pa	RPM	Rapp. spec. <1.04
SINGLE-PHASE	C 20/2 M E	30321	B	TOTALE	2015	NO	38.2	49.0	0.196	522	506	2840	SI
	C 25/2 M E	30323	B	TOTALE	2015	NO	38.9	49.0	0.257	697	509	2845	SI
	C 30/2 M E	30325	B	TOTALE	2013	NO	41.6	50.0	0.465	876	584	2892	SI
	C 35/4 M E	30330	B	TOTALE	2015	NO	38.7	50.0	0.191	847	313	1400	SI
	C 37/4 M E	30332	B	TOTALE	2015	NO	39.8	49.0	0.415	1445	412	1462	SI
	C 40/4 M E	30334	B	TOTALE	2015	NO	40.5	49.0	0.474	1535	450	1442	SI
THREE-PHASE	C 20/2 T E	30322	B	TOTALE	2015	NO	40.3	51.0	0.182	522	505	2877	SI
	C 25/2 T E	30324	B	TOTALE	2015	NO	38.1	49.0	0.179	511	481	2915	SI
	C 30/2 T E	30326	B	TOTALE	2013	NO	43.2	51.8	0.434	866	779.5	2914	SI
	C 35/4 T E	30331	B	TOTALE	2013	NO	41.1	51.5	0.230	1021	222	1443	SI
	C 37/4 T E	30333	B	TOTALE	2015	NO	44.3	54.1	0.281	1092	410	1450	SI
	C 40/4 T E	30335	B	TOTALE	2015	NO	43.6	53.2	0.301	1115	424	1440	SI
	C 45/4 T E	30336	B	TOTALE	2013	NO	49.7	56.3	0.913	2399	681.5	1472	SI
	C 46/4 T E	30337	B	TOTALE	2015	NO	45.0	49.0	2.054	4103	811	1432	SI

\* Best efficiency point.

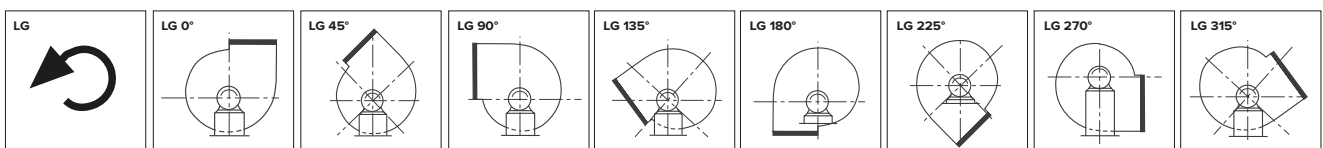
### ORIENTATION

The position of a radial fan delivery outlet is represented by a direction of rotation symbol (LG - that is, towards the left of anti-clockwise, looking from the side opposite the air intake inlet) and the angle (in degrees) of the delivery outlet to the reference axis (a straight line perpendicular to the base plane, passing through the axis of rotation), measured in the direction of rotation.



Designation of delivery outlet position for radial fans.

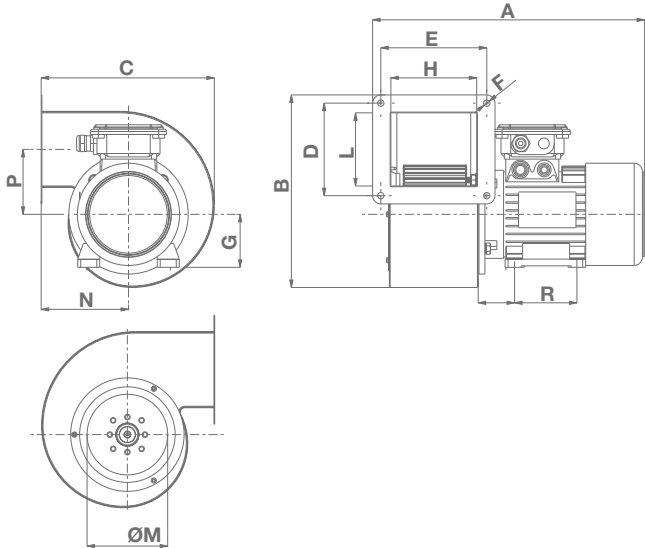
Adjacent example: LG 135



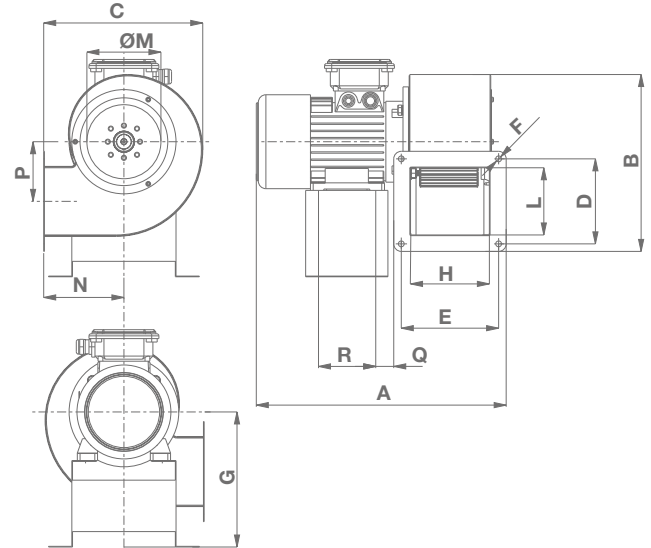


DIMENSIONS

C 10 ÷ C 45



C 46



PRODUCTS	A	ØB	C	D	E	F	G	H	L	ØM	N	P	Q	R
C 10/2* M - T	260	186	171	72	82	6.5	56	68	63	80	81	66.5	36	71
C 15/2* M - T	281	234	206	108	100	7	56	83	88	108	99	79	36	71
C 20/2* M - T	350	258	232	123	123	8.5	71	102	98	108	117	87	45	90
C 25/2* M	369	258	232	124	142	8.5	71	115	98	108	117	87	45	90
C 25/2* T	358	258	232	124	142	8.5	71	115	98	108	117	87	45	90
C 30/2* M - T	366	308	272	126	137	8.5	71	117	108	132	131	111	45	90
C 30/4* M - T	352	308	272	126	137	8.5	71	117	108	132	131	111	45	90
C 31/4** T	357	400	340	164	139	8.5	71	112	137	170	152	144	45	90
C 35/4** M	390	400	340	164	174	8.5	71	149	137	170	152	144	45	90
C 35/4** T	387	400	340	164	174	8.5	71	149	137	170	152	144	45	90
C 37/4** M	437	471	416.5	220	182	8.5	80	149	187	199	181.5	146	50	100
C 37/4** T	422	471	416.5	220	182	8.5	80	149	187	199	181.5	146	50	100
C 40/4** M	468	472	418	214	208	8.5	80	185	187	199	181.5	147	50	100
C 40/4** T	453	472	418	214	208	8.5	80	185	187	199	181.5	147	50	100
C 45/4** T	549	557.2	484.5	228	228	9	90	200	200	240	222	217	56	125
C 46/4** T	592	675	566	306	265	11.5	442	236	277	288	250	244.5	27	270

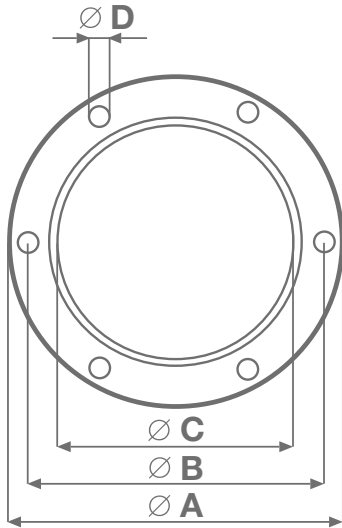
\* normally supplied with an orientation of the auger clockwise LG 90 \*\* normally supplied with an orientation of the auger clockwise LG 270 °

Dimensions (mm)

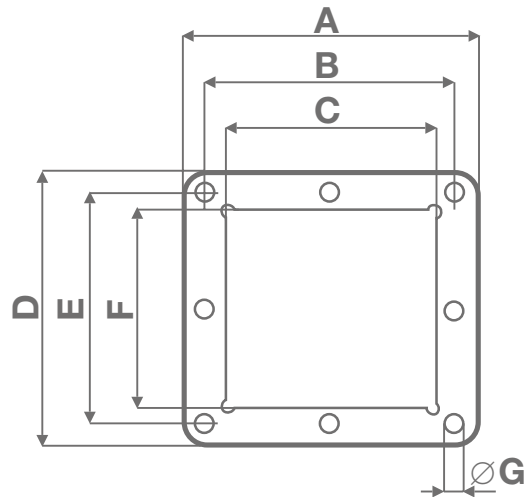


DIMENSIONS

AIR INTAKE



DELIVERY OUTLET



PRODUCTS	ØA	ØB	ØC	ØD	N° HOLES
C 10	111.5	100	80	7	6
C 15	141	128	108	7	6
C 20 E	152	132	108	7	6
C 25 E	152	132	108	7	6
C 30 E	190	170	132	7	6
C 31 E	240	220	170	7	8
C 35 E	240	220	170	8.5	8
C 37 E	282	262	199	8.5	8
C 40 E	282	262	199	4.6	8
C 45 E	320	300	236	8.5	8
C 46 E	420	395	288	12	8

Dimensions (mm)

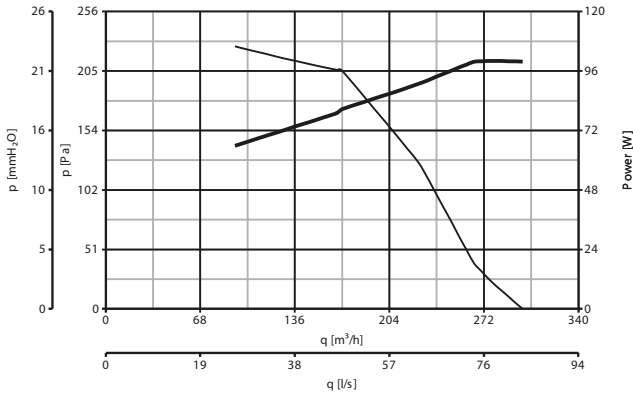
PRODUCTS	A	B	C	D	E	F	ØG	N° HOLES
C 10	98	82	68	88	72	63	6.5	4
C 15	125	100	83	132	108	88	7	4
C 20 E	145	123	102	145	123	98	8.5	4
C 25 E	164	142	115	146	124	98	8.5	4
C 30 E	162	137	117	150	126	108	8.5	4
C 31 E	165	139	112	190	164	137	8.5	8
C 35 E	200	174	149	190	164	137	8.5	8
C 37 E	218	182	149	250	220	187	8.5	8
C 40 E	244	208	185	250	214	187	8.5	8
C 45 E	260	228	200	260	228	200	9	8
C 46 E	295	264	236	336	306	277	11.5	8

Dimensions (mm)

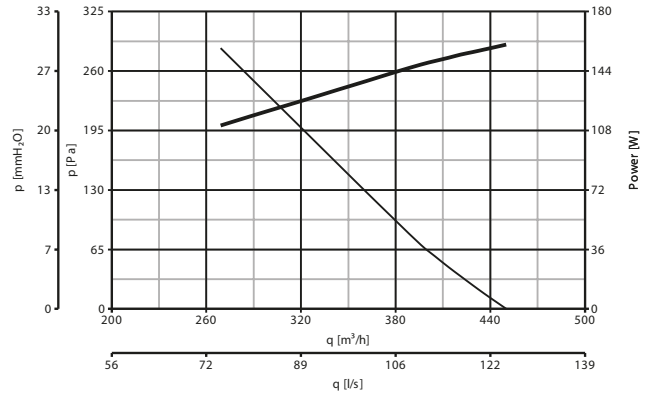


PERFORMANCE CURVES

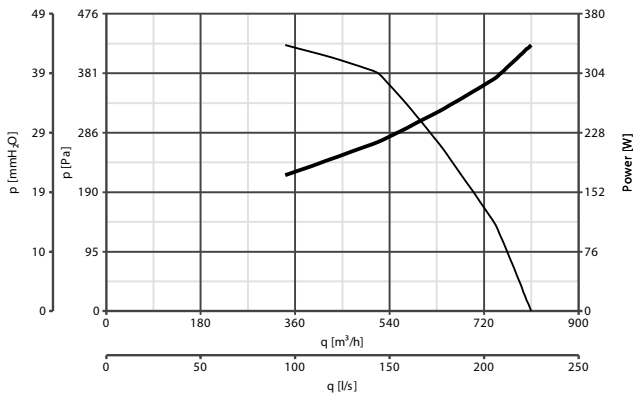
C 10/2 M



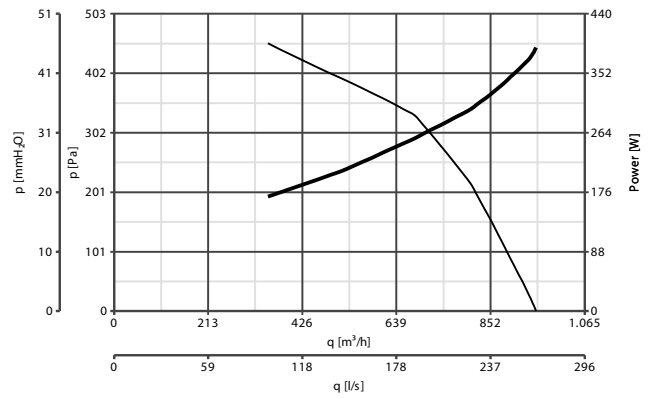
C 15/2 M



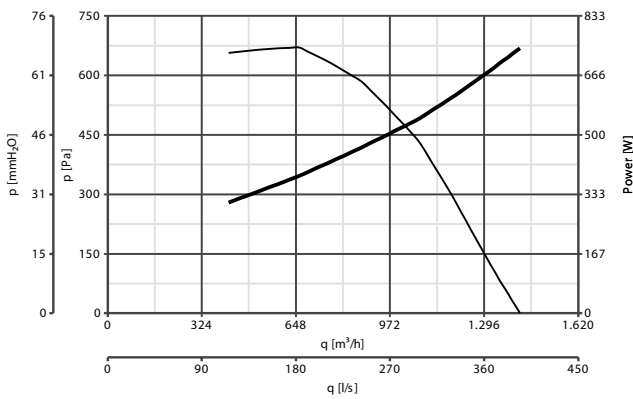
C 20/2 M E



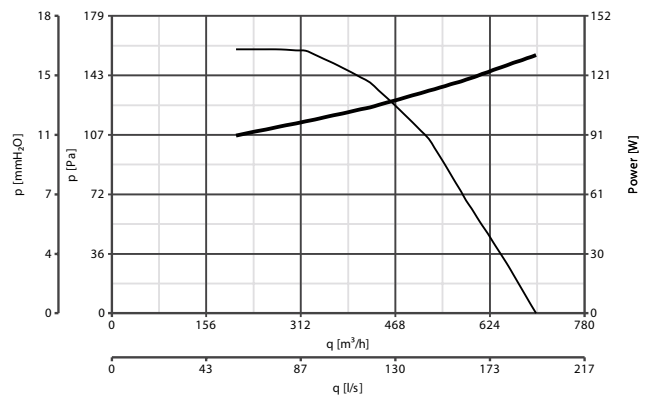
C 25/2 M E



C 30/2 M E



C 30/4 M E

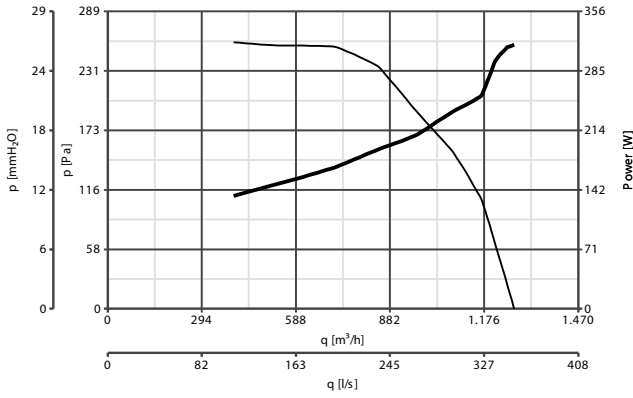


Power consumption  
 Delivery

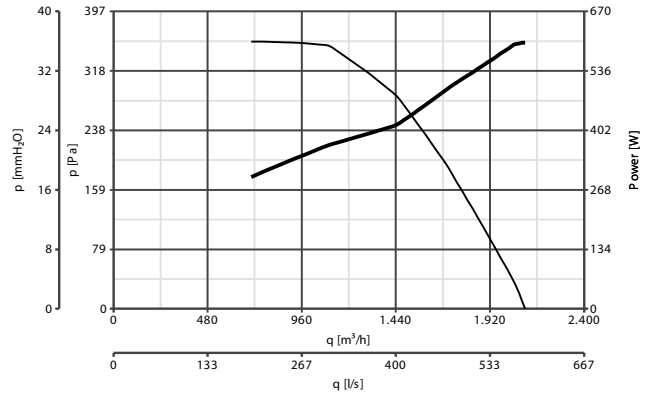


PERFORMANCE CURVES

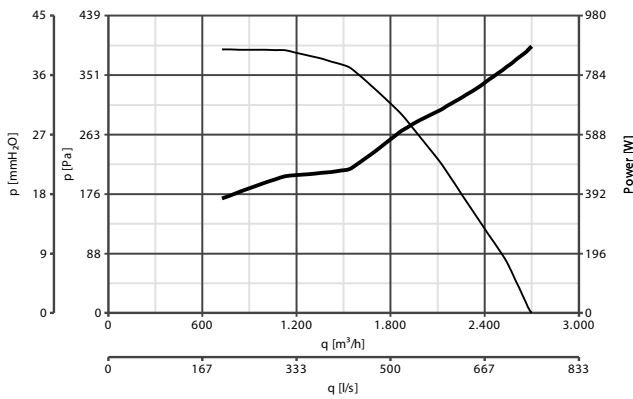
C 35/4 M E



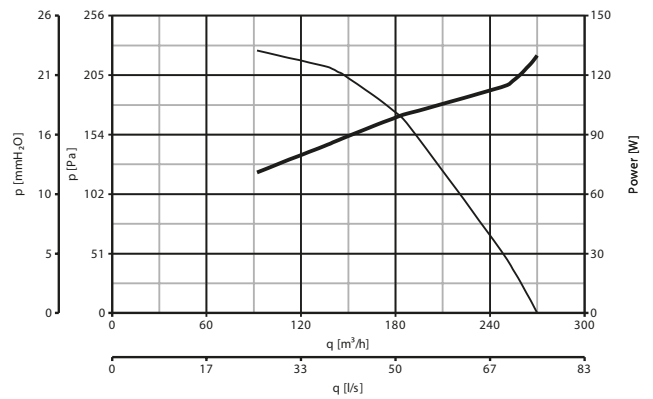
C 37/4 M E



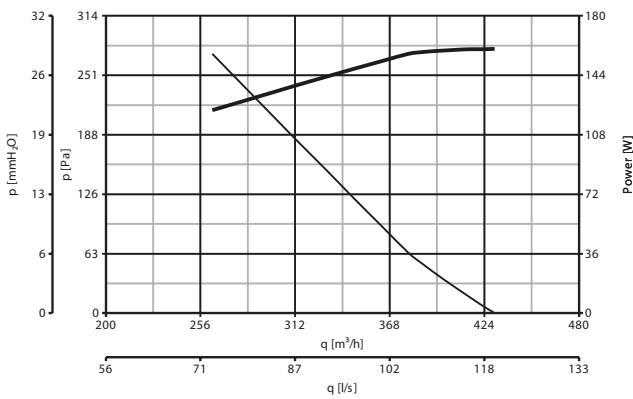
C 40/4 M E



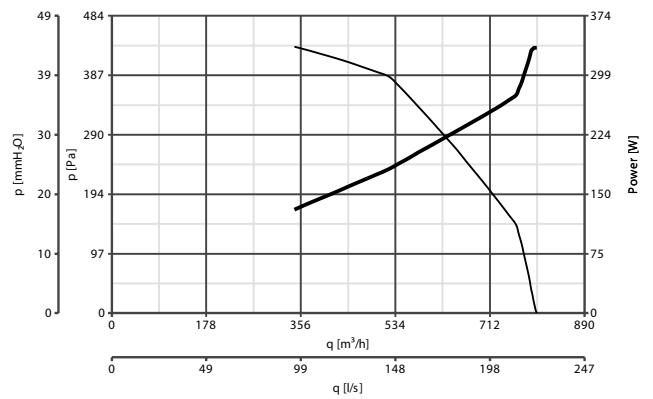
C 10/2 T



C 15/2 T



C 20/2 T E

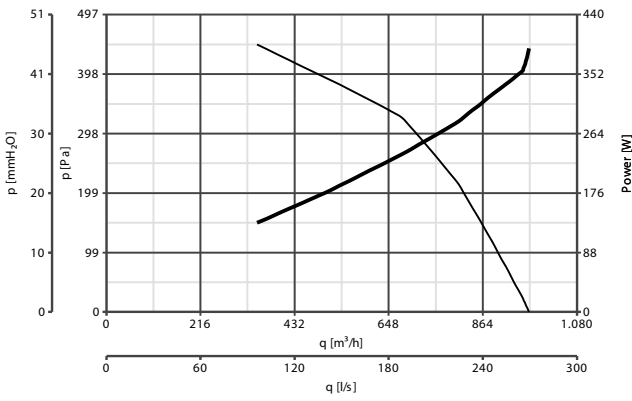


Power consumption  
 Delivery

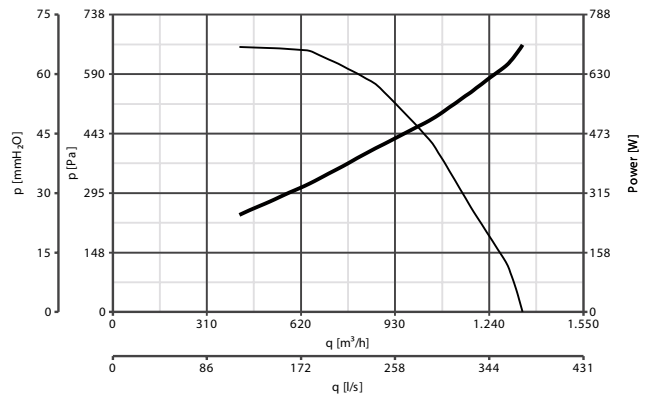


PERFORMANCE CURVES

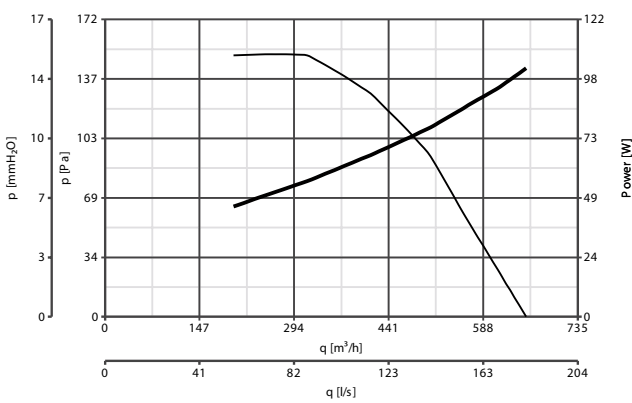
C 25/2 T E



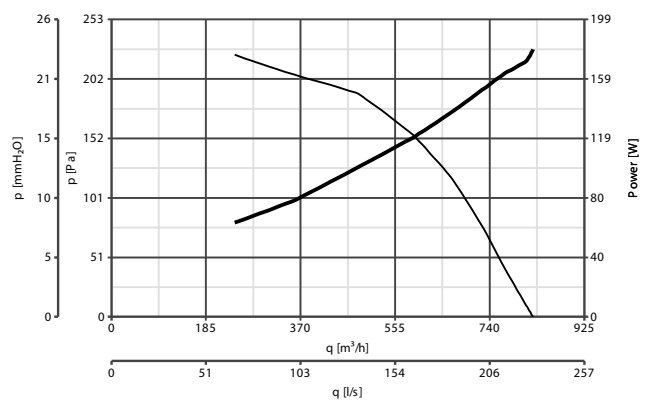
C 30/2 T E



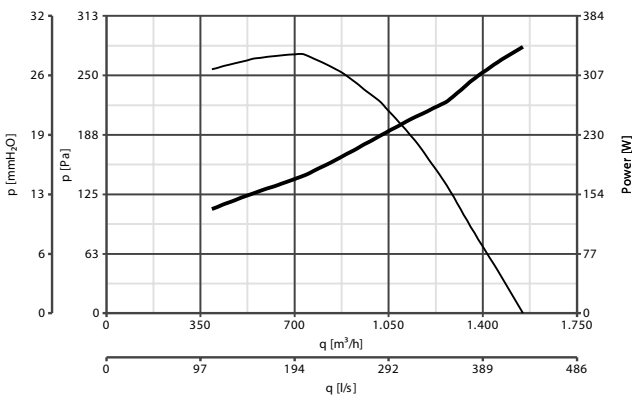
C 30/4 T E



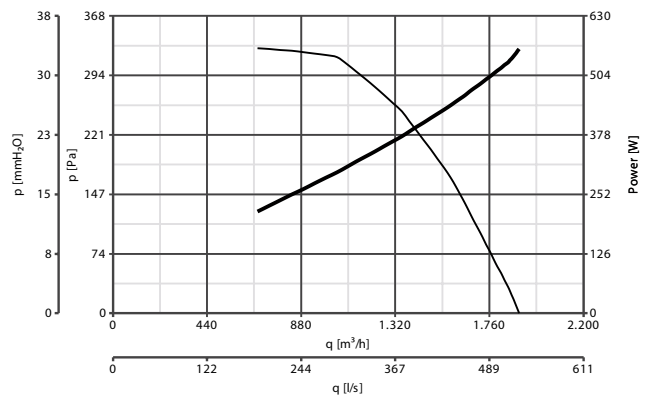
C 31/4 T E



C 35/4 T E



C 37/4 T E



— Power consumption  
— Delivery



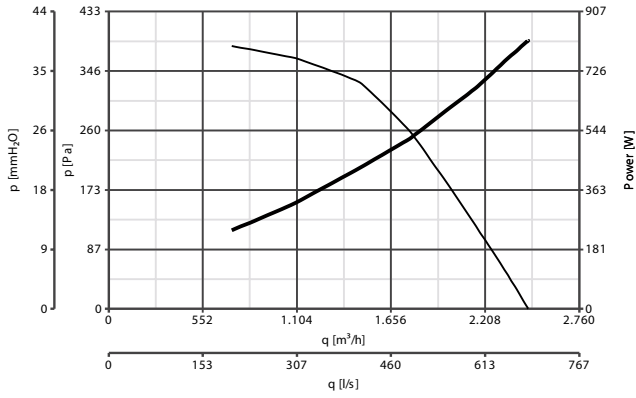


# INDUSTRIAL VENTILATION

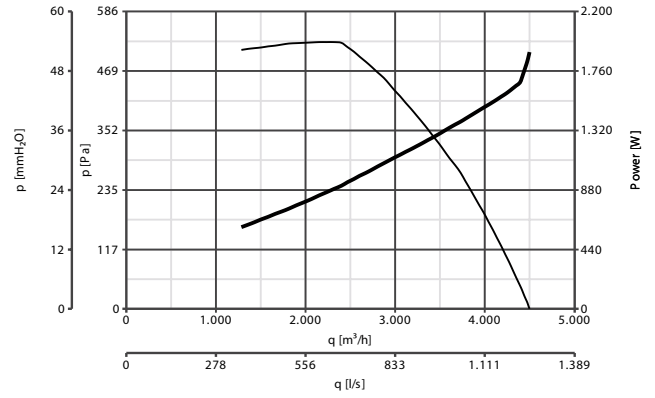
## VORTICENT C E RANGE

### PERFORMANCE CURVES

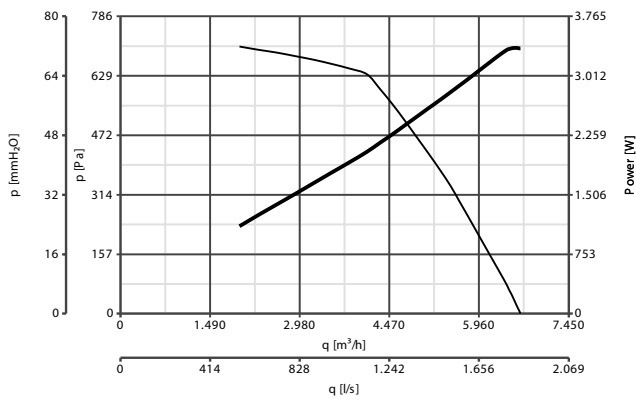
C 40/4 T E



C 45/4 T E







C 46/4 T E



Power consumption  
 Delivery



ACCESSORIES



MODELS	DESCRIPTION	CODE	PRODUCTS
	C RA - Flanged inlet adapter	10	22825 30302 - 30351
		15	22826 30902 - 30951
		20/25	22828 30321 - 30322 - 30323 - 30324
		30	22829 30325 - 30326 - 30327 - 30328
		31/35	22830 30329 - 30330 - 30331
		37	22832 30332 - 30333
		40	22833 30334 - 30335
		45	22834 30336
		46	22835 30337
	C MS - Wall-mounted support	20/25	22836 30321 - 30322 - 30323 - 30324
		30	22837 30325 - 30326 - 30327 - 30328
		31/35	22838 30329 - 30330 - 30331
		37/40	22839 30332 - 30334 - 30333 - 30335
		45	22840 30336
	C GM - Protection grille for outlet port	10	22811 30302 - 30351
		15	22812 30902 - 30951
		20	22813 30321 - 30322
		25	22814 30323 - 30324
		30	22816 30325 - 30326 - 30327 - 30328
		31	22817 30329
		35	22818 30330 - 30331
		37	22819 30332 - 30333
		40	22820 30334 - 30335
		45	22821 30336
	C GA - Protection grille for intake port	10	22801 30302 - 30351
		15	22802 30902 - 30951
		20/25	22803 30321 - 30322 - 30323 - 30324
		30	22804 30325 - 30326 - 30327 - 30328
		31/35	22805 30329 - 30330 - 30331
		37/40	22806 30332 - 30334 - 30333 - 30335
		45	22807 30336
		46	22808 30337



## INDUSTRIAL VENTILATION

### VORTICENT C E RANGE

#### CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	<b>IREM INVERTER 4 M</b> - Single-phase speed controller with inverter*	12815	30302 - 30902 - 30321 - 30323 - 30325 - 30327 - 30330 - 30332
	<b>IREM INVERTER 6 M</b> - Single-phase speed controller with inverter*	12818	30334
	<b>IRET INVERTER 2.5 M</b> - Three-phase speed controller with inverter*	12816	30351 - 30951 - 30322 - 30324 - 30326 - 30328 - 30329 - 30331 - 30333 - 30335
	<b>IRET INVERTER 5 M</b> - Three-phase speed controller with inverter*	12817	30336
	<b>IRET INVERTER 8 M</b> - Three-phase speed controller with inverter	12821	30337
	<b>POT</b> - Potentiometer	12828	12815 - 12816 - 12817 - 12818

\* To adjust a regulator with inverter, combine a 0-10V potentiometer as code 12828

