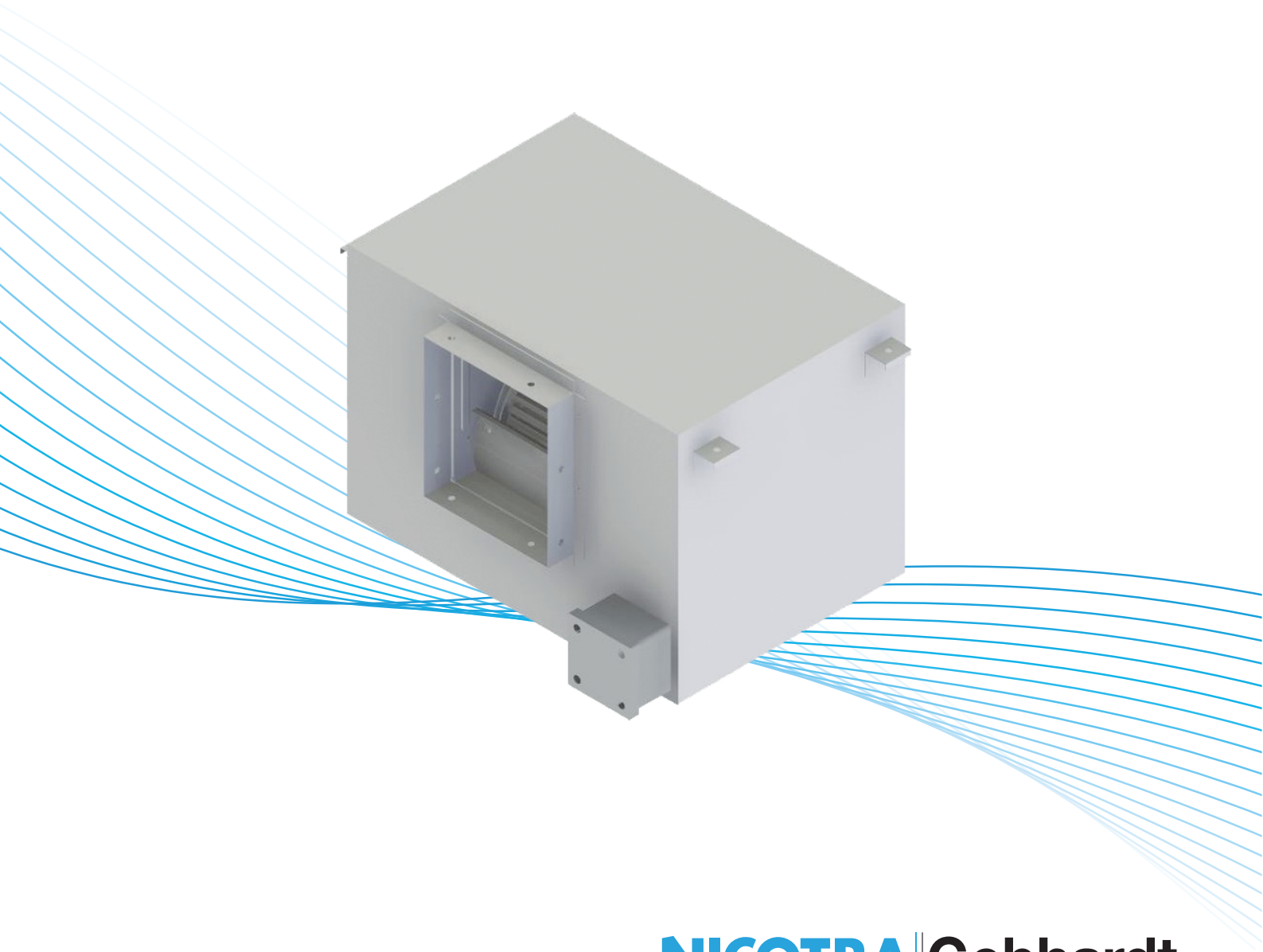


Series CD / Direct Drive
CABINET FANS



NICOTRA || Gebhardt

Features

- Cabinet manufactured in galvanized steel, complete with inlet and outlet spigots.
- Internal acoustics lining is available, which offer better acoustics performance.
- Mounting brackets and access panel fitted as standard.
- Easy access for fan and motor service with removable access door panel.
- High efficiency forward curved DIDW impeller with galvanized steel scroll.
- 3 speed motor for H/M/L air volume induction motors with sealed for life bearing, suitable for single phase electrical supply.
- Speed selection through terminal switch at junction box according to wiring diagram supplied with the fan.
- Optional internal insulation reduction up to 5 dBA.

Technical Data Sheet

			CD 160	CD 180	CD 200	CD 250	CD 280	CD 300	CD 350	CD 400
Nominal Performance										
Airflow @ 0 Pa	High Speed	CMH	944	1235	1543	2442	3852	4205	5505	6278
	Medium Speed	CMH	613	961	1179	1955	3276	3639	4581	5040
	Low Speed	CMH	519	723	919	1303	2996	3219	3770	4055

SPL at 3m	High Speed	dB(A)	50	56	56	58	61	58	62	60
	Medium Speed	dB(A)	43	51	53	53	58	56	59	57
	Low Speed	dB(A)	41	47	49	51	56	54	55	53

Motor										
Voltage / Frequency			1 Ph - 230 V - 50 Hz							
Poles			4P	4P	4P	4P	4P	4P	6P	6P
Max. Power Consumption	High Speed	Watt	165	269	332	873	1169	1193	1525	1503
	Medium Speed	Watt	108	202	227	767	957	957	1189	1200
	Low Speed	Watt	88	152	164	655	813	799	943	960
Nominal Motor Power		Watt	45	92	150	315	600	600	730	730
Class			Class B IP 20						Class F IP 20	

Speed Control			3 Speed							
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RPM	High Speed	RPM	1230	1250	1100	1000	1050	1050	800	800
	Medium Speed	RPM	950	1100	870	900	1000	1000	700	700
	Low Speed	RPM	750	820	700	750	900	900	600	600

Amp	High Speed	A	0.7	1.1	1.5	4.2	5.3	5.3	6.9	6.8
	Medium Speed	A	0.5	0.9	1.0	3.6	4.2	4.3	5.5	5.6
	Low Speed	A	0.4	0.7	0.8	3.1	3.6	3.6	4.5	4.6

Capacitor										
Capacitance		µF	5µF	4µF	5µF	4µF	16µF	16µF	25µF	25µF
Rated Voltage		Volt	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500

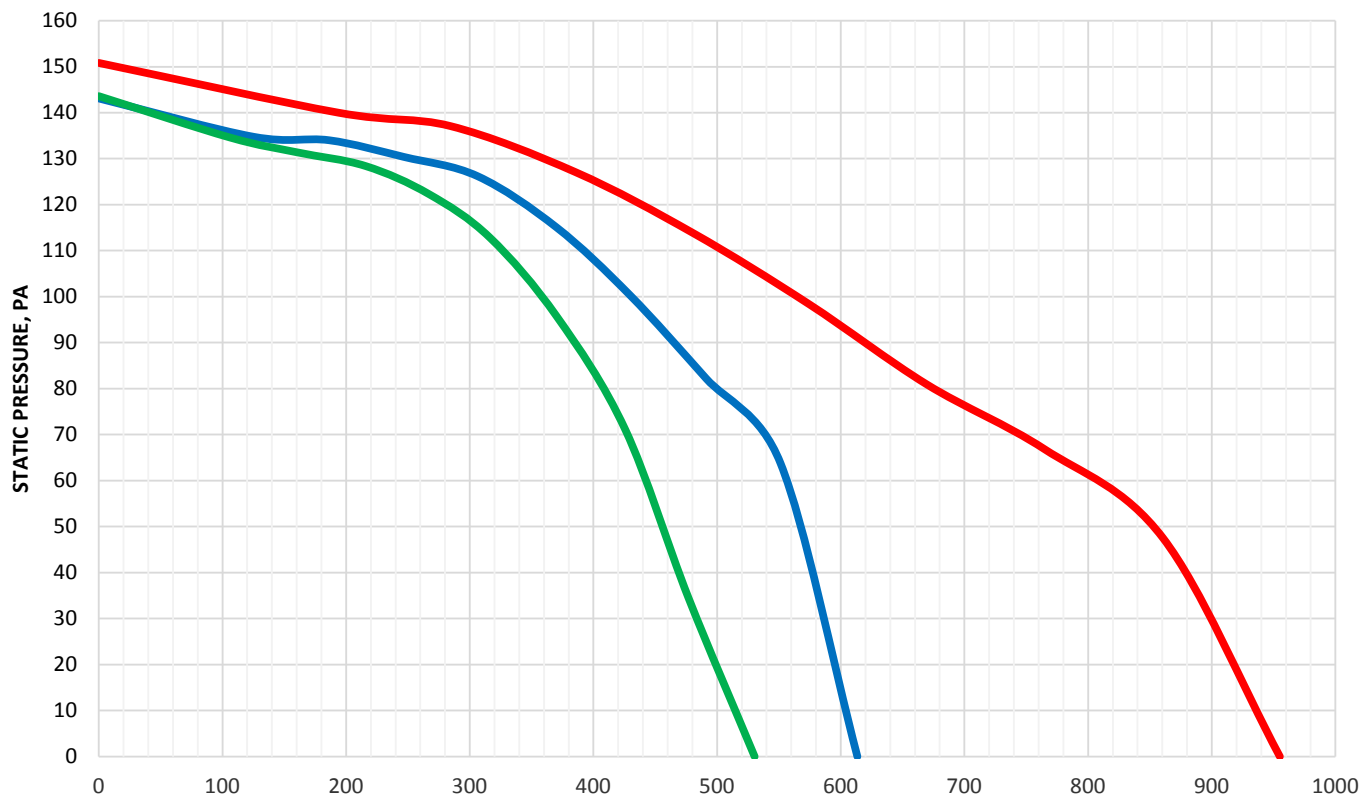
Fan										
Size			160/176	185/176	8/8	9/7	10/8	10/10	12/9	12/12
Wheel Diameter		mm	160	185	203	241	270	270	330	330

Casing										
Material			Galvanised Steel							

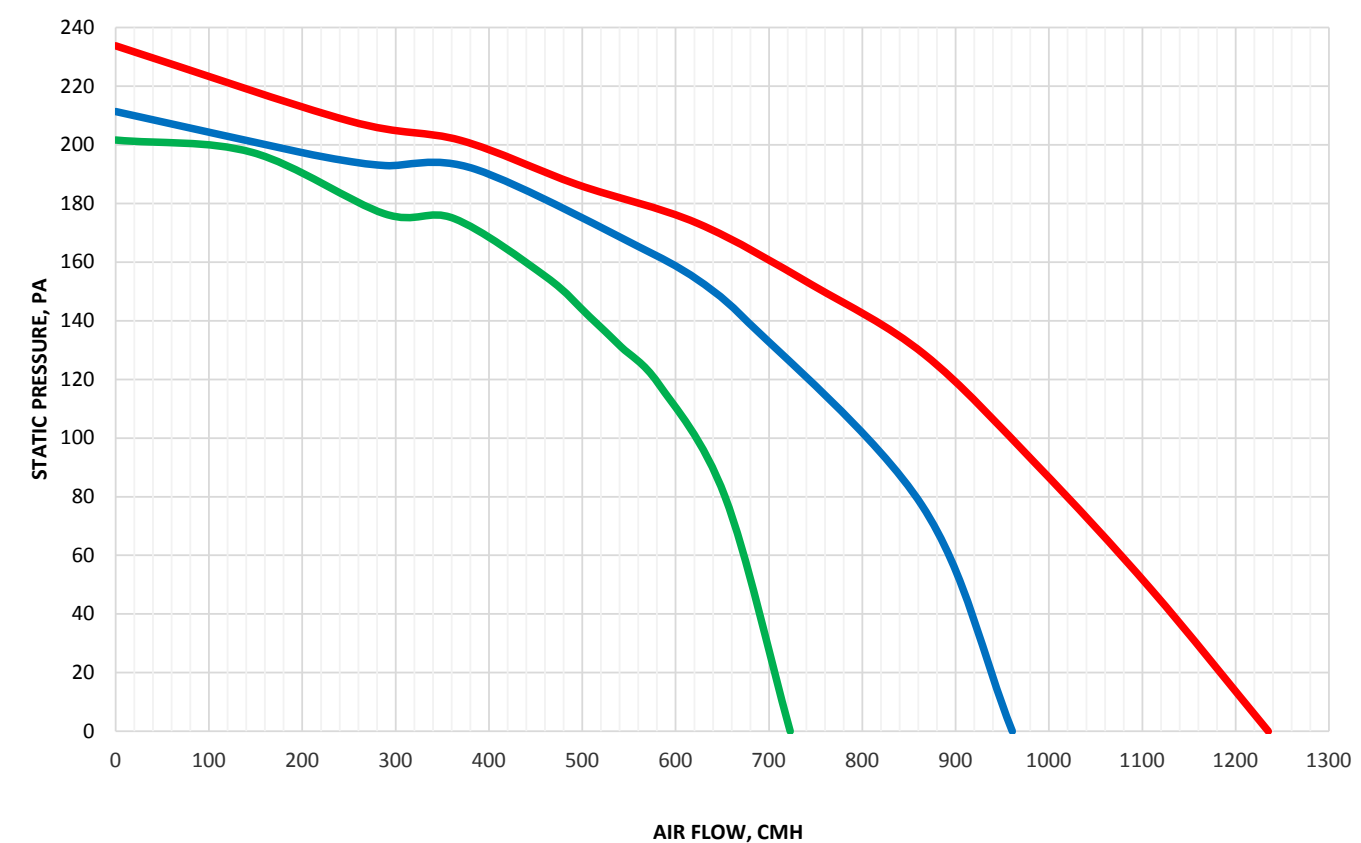
Overall Dimension	H	mm	325	340	364	441	491	491	578	578
	W	mm	390	420	453	490	550	550	602	602
	L	mm	570	610	633	706	796	796	896	896

Weight		kg	12.5	14.3	16.4	24.6	31.6	33.6	37.4	39.4
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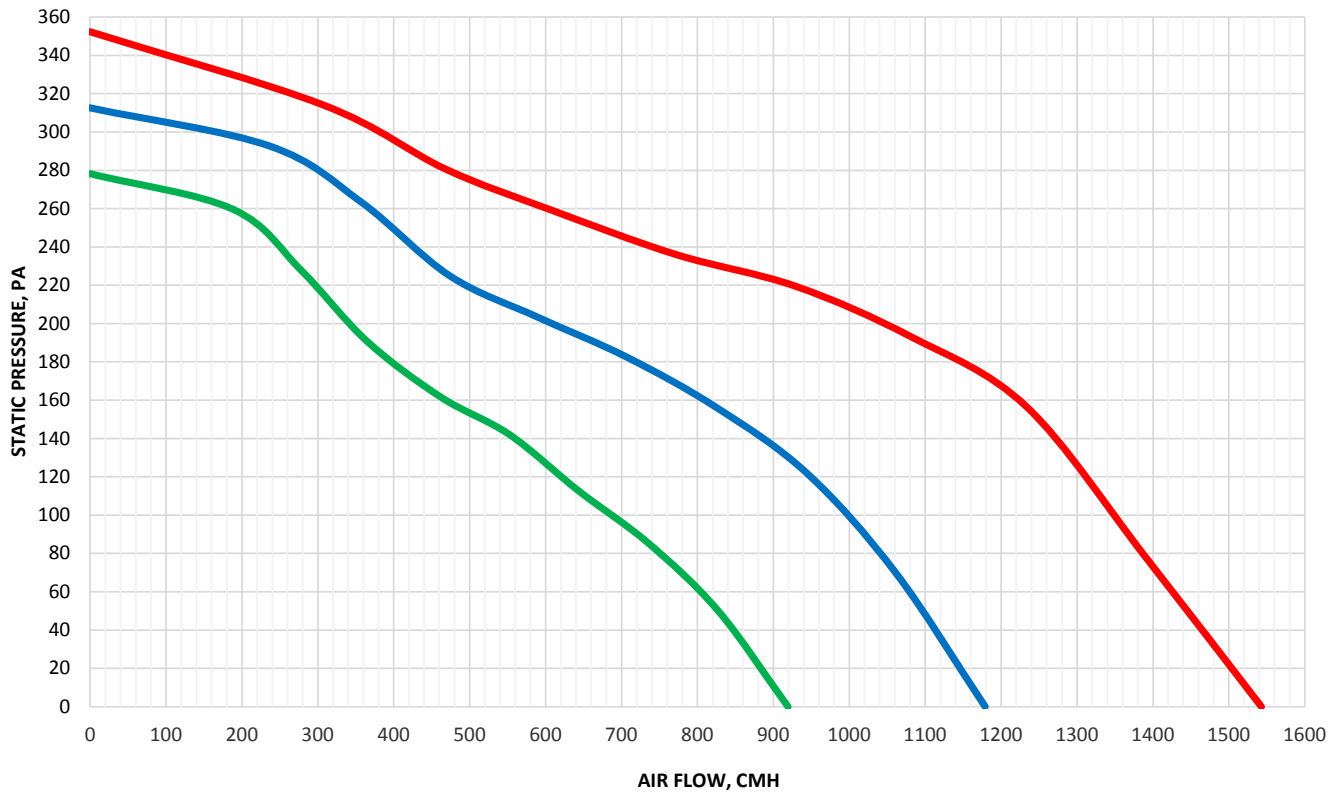
CD 160 PERFORMANCE CURVE



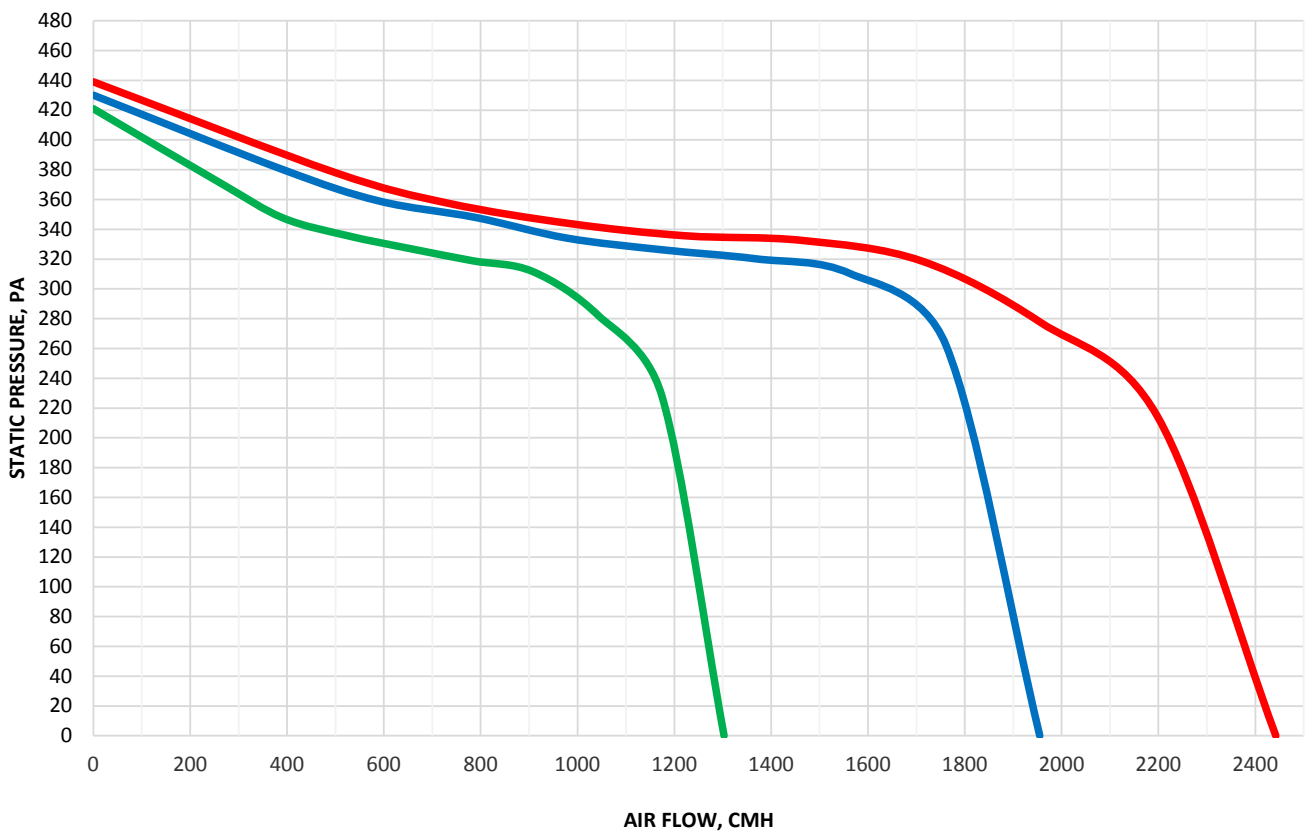
CD 180 PERFORMANCE CURVE



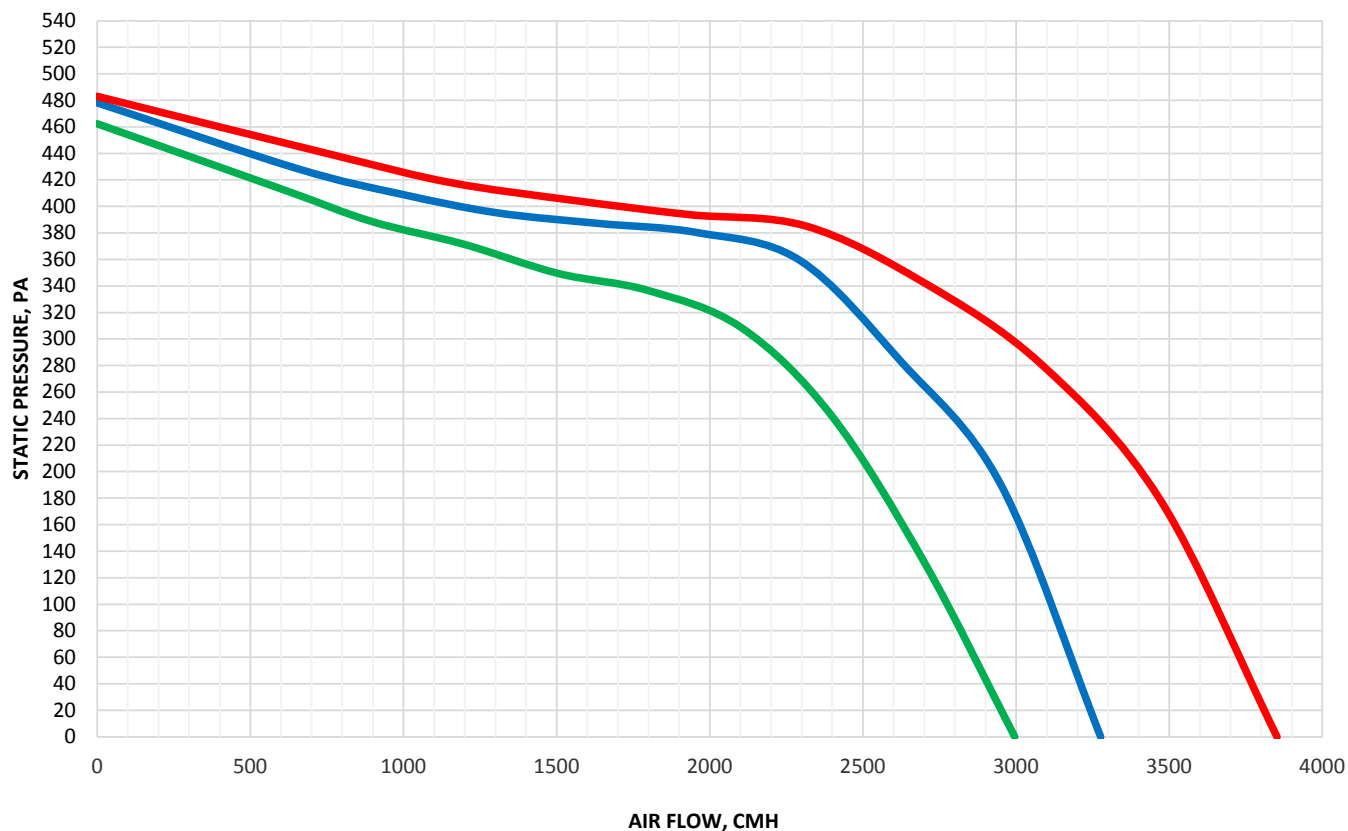
CD 200 PERFORMANCE CURVE



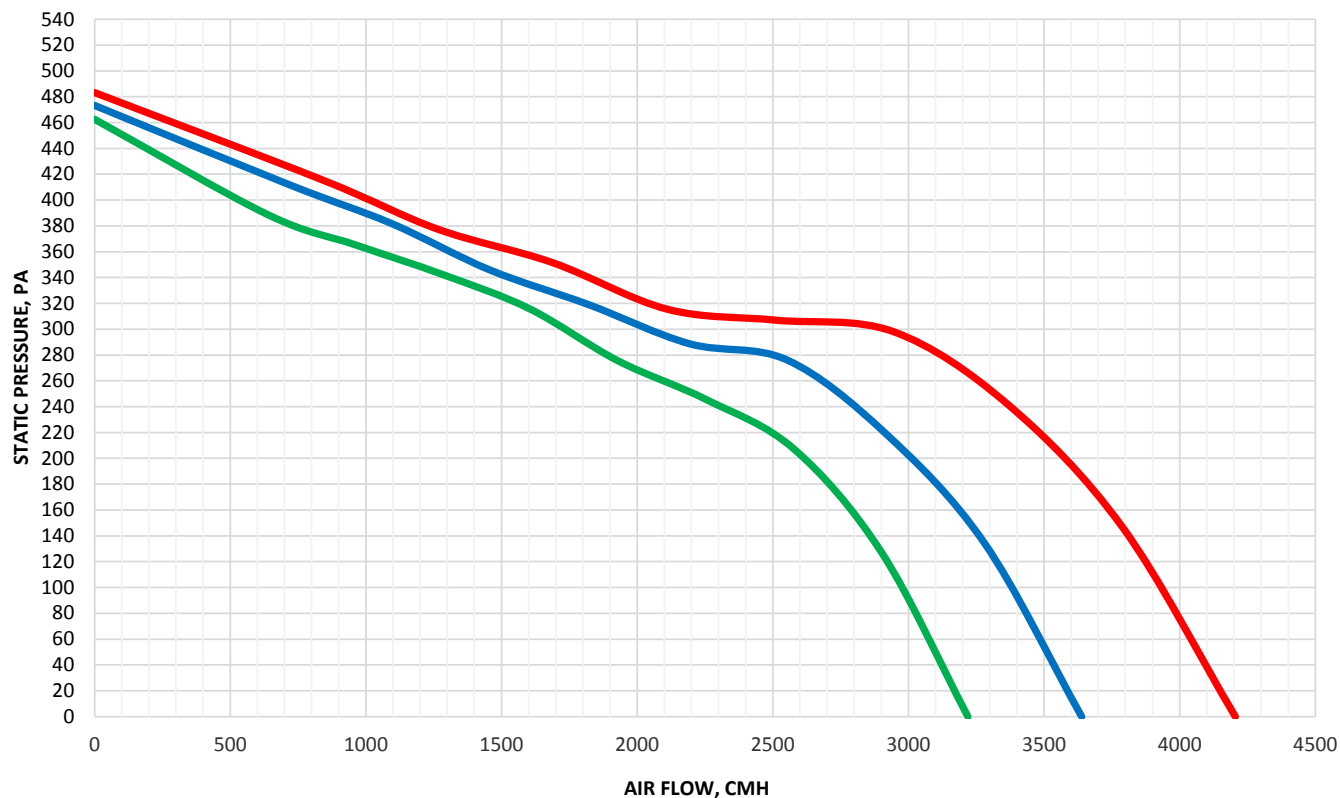
CD 250 PERFORMANCE CURVE



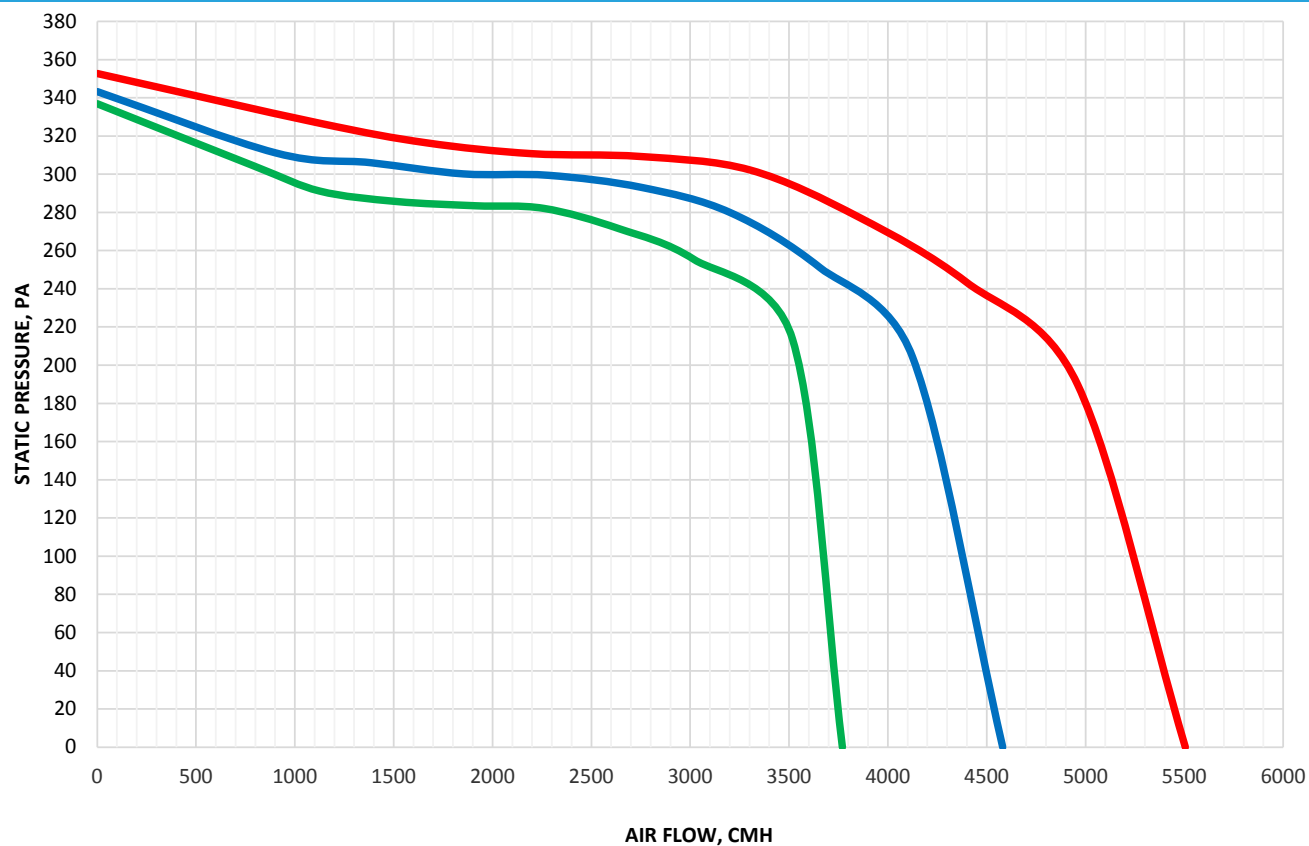
CD 280 PERFORMANCE CURVE



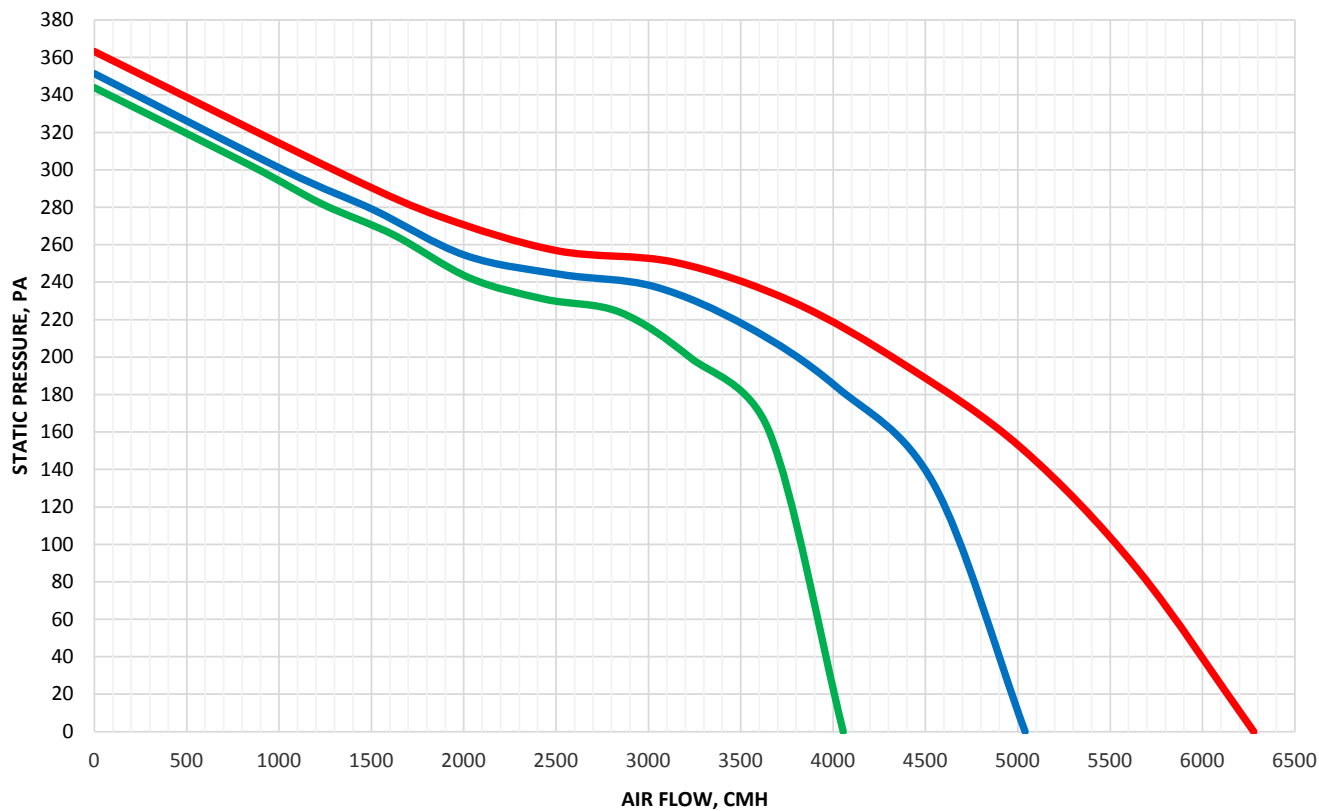
CD 300 PERFORMANCE CURVE



CD 350 PERFORMANCE CURVE

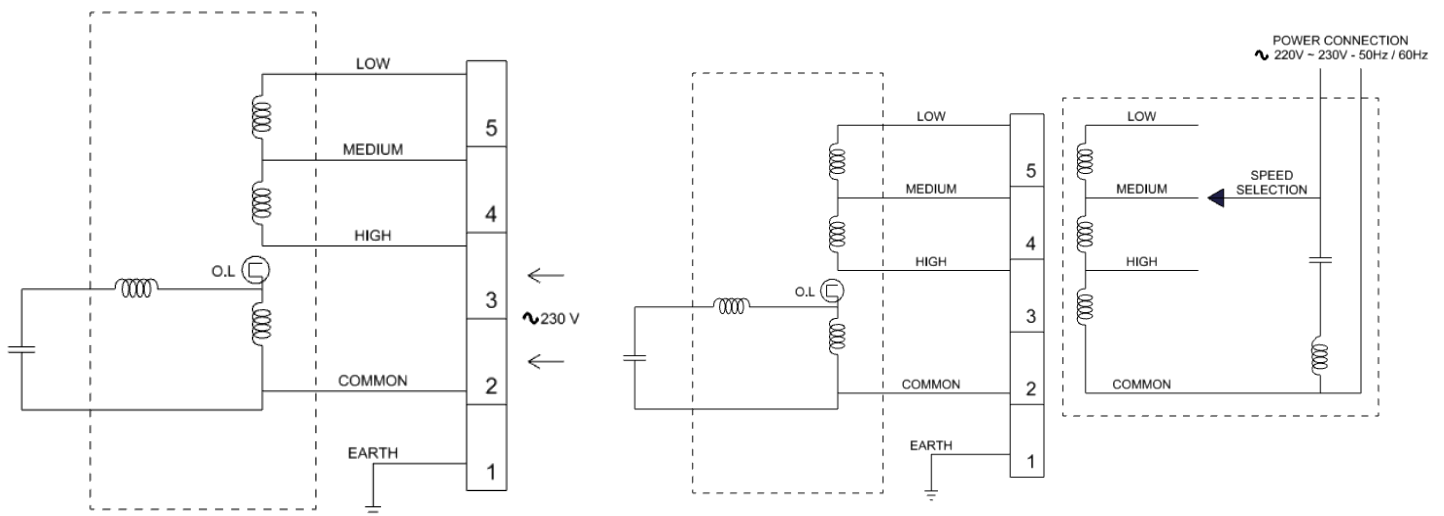


CD 400 PERFORMANCE CURVE



WIRING DIAGRAM

WIRING DIAGRAM WITH SPEED CONTROL



Information :

Speed Regulation

A) Multi-speed Motors

Generally at the speed (available at the junction box) that the user can select through a switch, according to The wiring diagram supplied with the fan.

These Motors :

- **“Do Not Allow” :**

Any further regulation by means or electric triac Regulators or frequency static converters ;

- **“Allow” :**

The use of transformers or devices which do not Modify the sinusoidal wave line.

Attention !! :

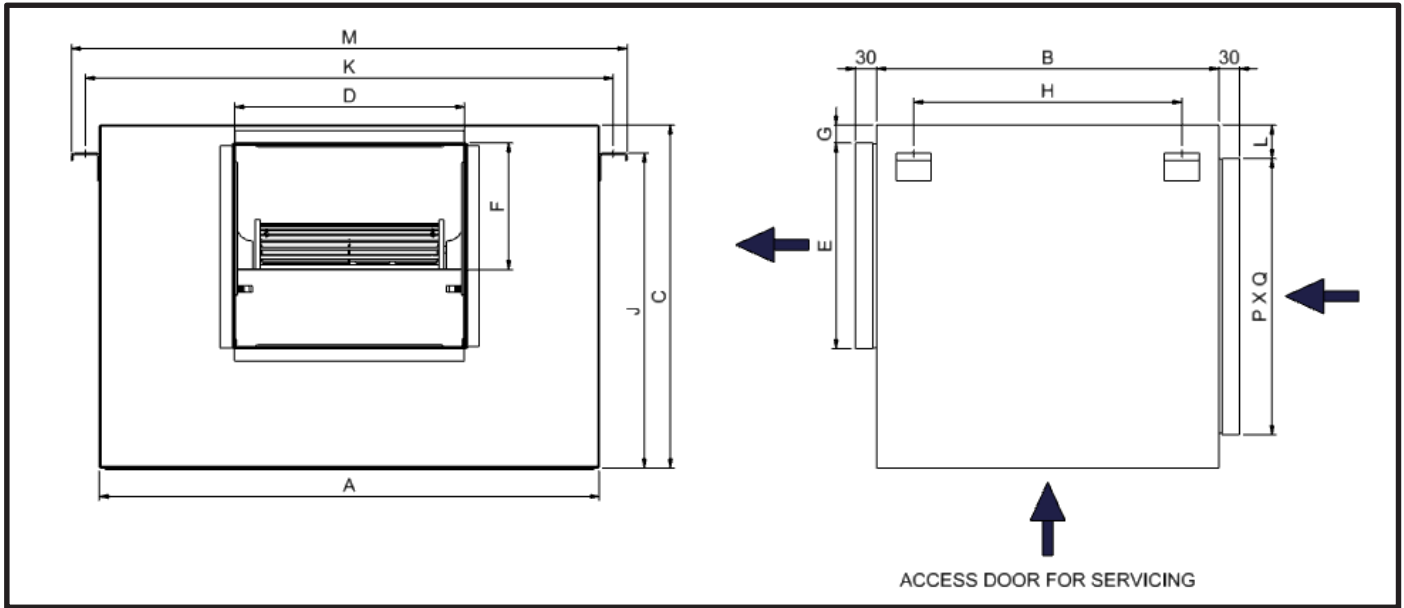
By connecting more fans in parallel it may run the risk of currents among the windings, producing motors short circuit. It is suggestible to verify eventual solution.

Communitary Directive 73/23 CEE, 89/336 CEE, both for Safety and Electromagnetic Compatibility field.

Not all commercial electronic regulators allow a good function of the fan due to a not fine compatibility among used components.

All the CD fans are supplied for two wires connection.

Overview Dimension



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	P	Q
CD 160	490	330	325	210	160	123	28	240	285	530	42	570	370	240
CD 180	530	360	340	210	180	123	28	254	300	570	35	610	410	270
CD 200	553	393	364	248	160	160	28	290	324	593	30	633	432	303
CD 250	626	430	441	233	261	261	28	324	401	666	50	706	505	340
CD 280	716	490	491	266	290	180	28	380	451	756	50	796	595	390
CD 300	716	490	491	334	290	220	28	380	451	756	50	796	595	390
CD 350	816	542	578	309	350	214	28	436	538	856	61	896	645	453
CD 400	816	542	578	394	350	214	28	436	538	856	61	896	645	453