

DCE

Ceiling Exhaust Fan - Direct driven



DCE - Ceiling Exhaust Fan

DYN AIR® is the industrial division of Maico Italia S.p.A. and is a well known brand name at global level in the industrial ventilation and plant engineering sector. Technological expertise, high production capacities, strong research and investment policies together with a personalized back-up service focused on customer needs have, for over 30 years, been the qualities that distinguish our company: Italian excellence renowned throughout the world and an industrial concern fortified by belonging to Maico Holding GmbH, the German group that leads the way in the ventilation industry.

Experience and high technology at your service

Living in a market in continuous evolution, DYN AIR® bases its force on a step by step project follow-up in close collaboration with the customer to create tailored and highly reliable solutions.

The latest addition to the ever evolving DYN AIR® range of products is the DCE range where blower of SISW fan inside a cabinet.

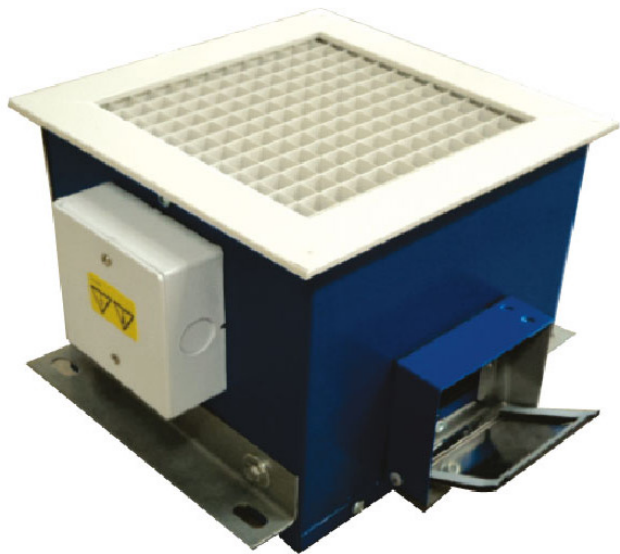
DYN AIR's products follow stringent policy of research and development. With safety as a priority during production, all products use top quality components that meet the relevant standards.



Our Total Quality policy is ensured by standard working procedures, with tests and inspections during all production phases.

DYN AIR is ISO 9001: 2000 certified.

With our production capability, wide range of finished products and components warehouse, we ensure quick delivery to all our customers. Our staff is trained and dedicated to provide before and after technical plus sales services.

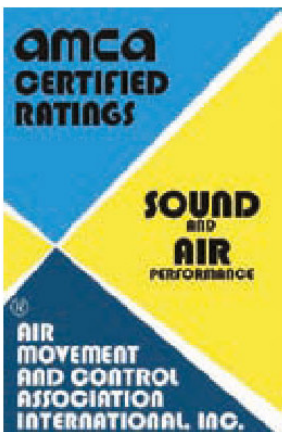


GENERAL DESCRIPTION

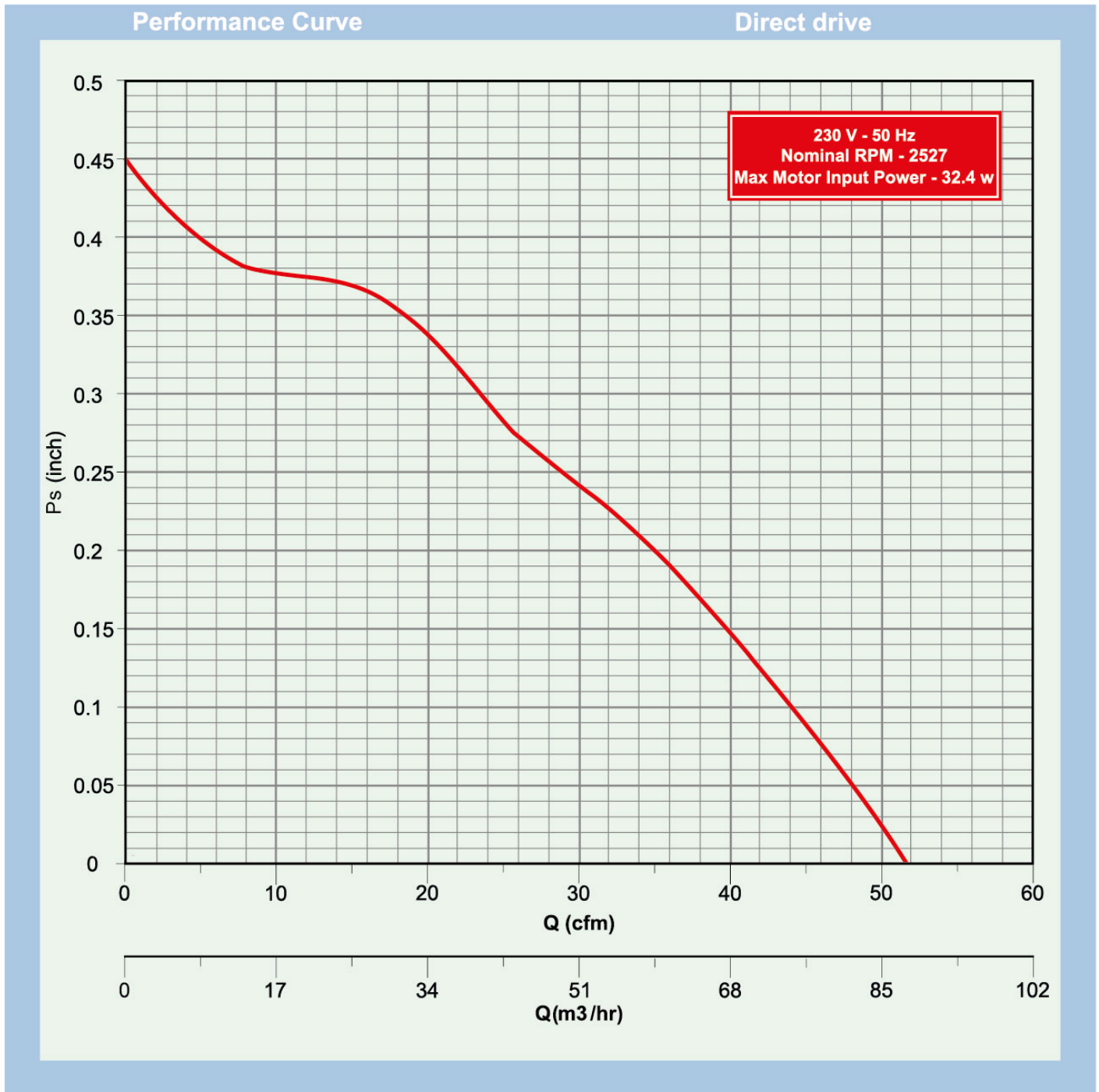
The fan of the DCE Series are particularly designed for installation where it is mandatory to guarantee an uninterrupted air exhaust even in case of failure. Its done by mean of fan in duty and another one in stand by which starts automatically in case of breakdown of the first fan. Duty and stand-by fans can be manually exchanged with a dedicated control panel, available in different versions (Automatic Changeover panel AC).

CONSTRUCTION FEATURES

- Cabinet is manufacture in galvanized/Aluminium sheet, removable access panel on Right side while viewing from inlet to allow easy access to fan and motor.
- Acoustic lining in self-extinguishing techno polymer. (UL 94 HF1 polyurethane)
- Double inlet Blower, Forward curved, with direct drive built-in asynchronous Motor, single phase, particularly suitable for speed regulation (using the suitable speed regulator shown in the catalogue).
- The blower is fitted using suitable support feet.



Maico Gulf LLC Certifies that the DYN AIR model DCE "50A" to "200B" shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

DCE 50 A


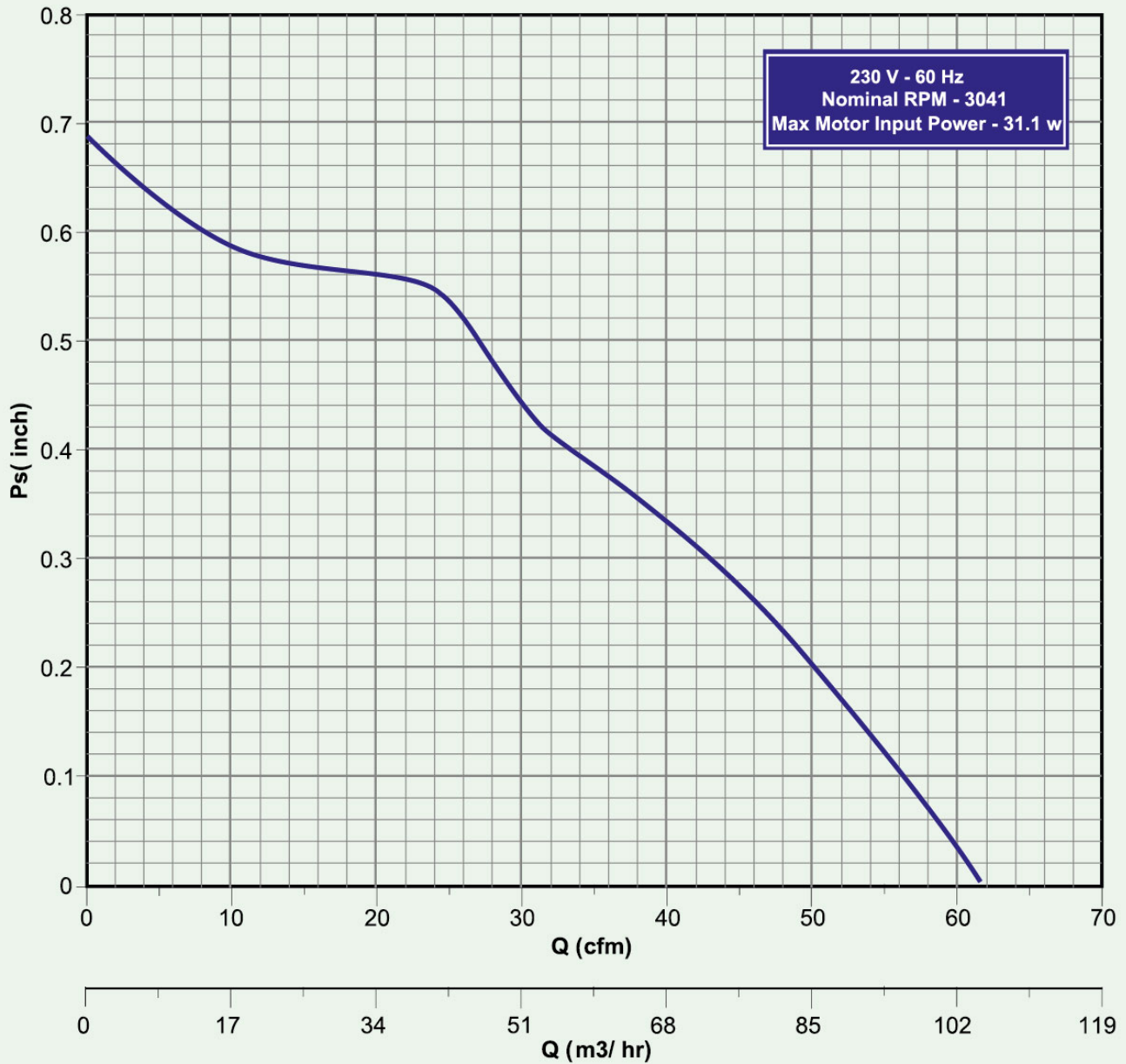
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 50 A

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . Hz (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 50 A	86	32.4	32	0.1	220-240/1/50	44 / B	1	40	59	74	58	52	50	41	43	45

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.

DCE 50 A
Performance Curve
Direct drive


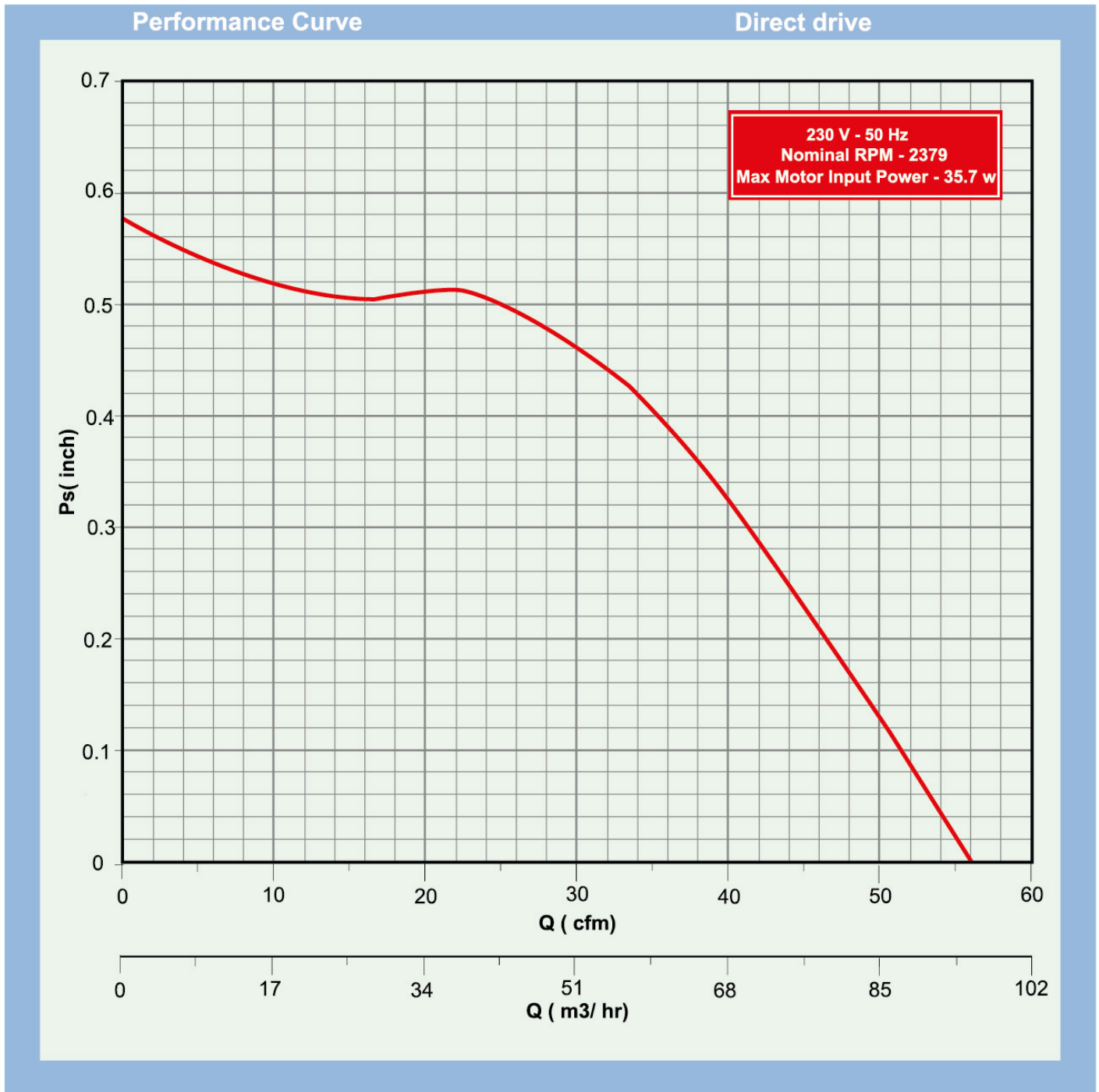
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 50 A

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 50 A	105	31.1	30	0.1	230/1/60	44 / B	1	38	56	65	62	55	52	45	46	44

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.

DCE 100 A


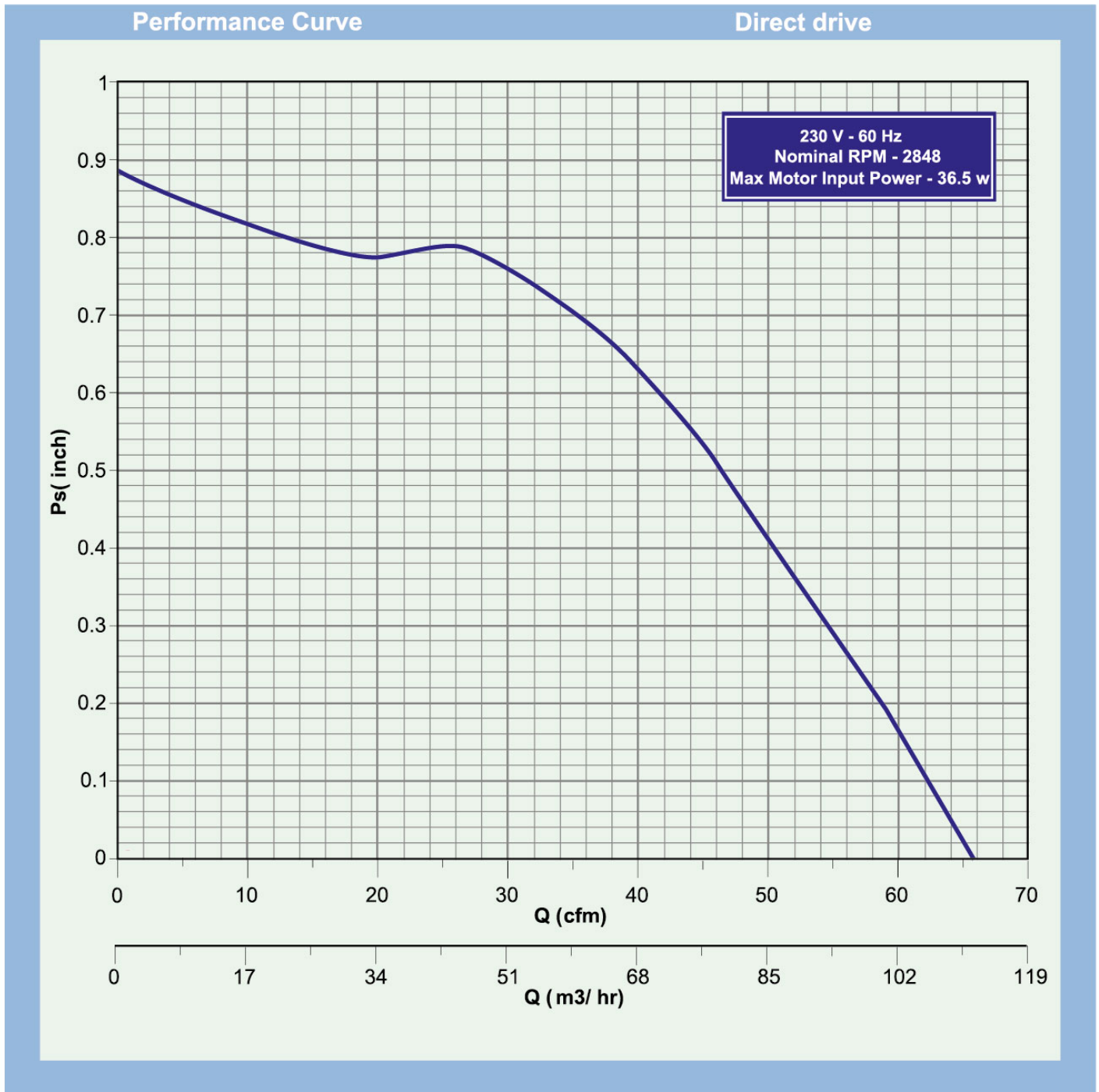
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 100 A

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 100 A	95	35.7	35	0.2	220-240/1/50	44 / B	1.5	40	55	69	58	49	59	45	42	38

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
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DCE 100 A


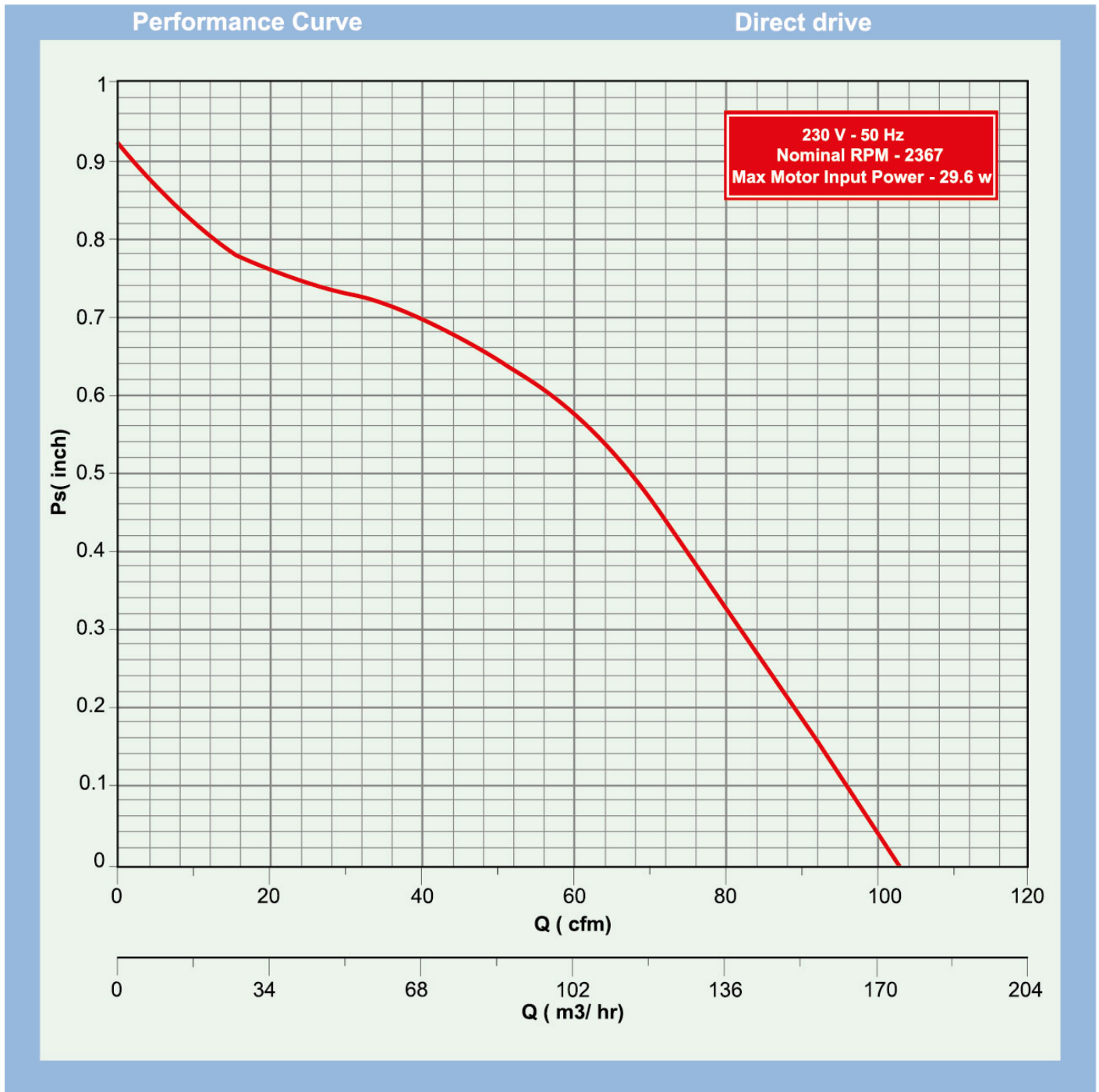
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
 - Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 100 A

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 100 A	112.2	36.5	37	0.2	230/1/60	44 / B	1.5	42	57	64	58	51	61	50	46	42

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
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DCE 100 B


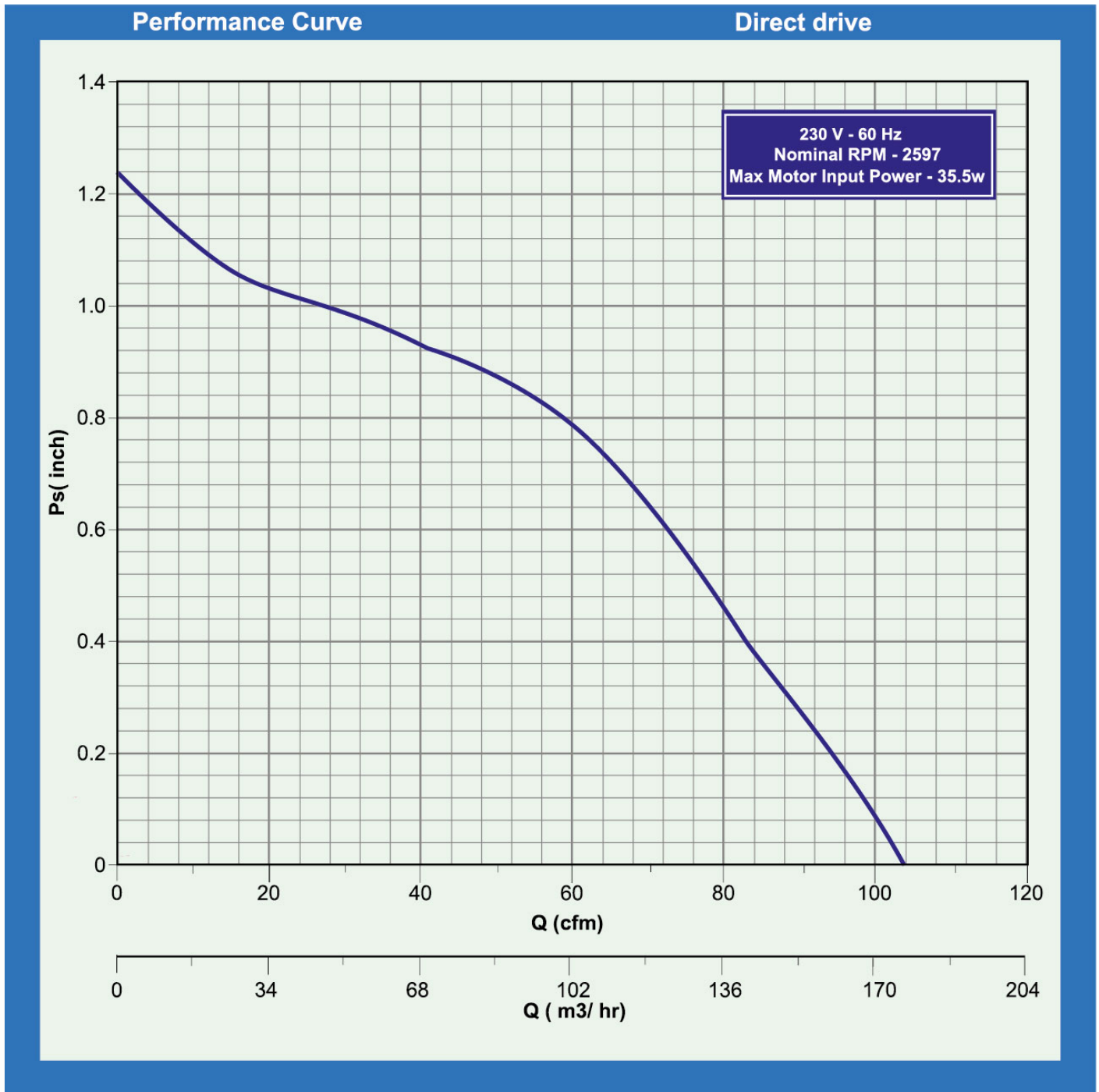
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 100 B

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . Hz (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 100 B	173.4	29.6	30	0.1	220-240/1/50	44 / B	1	37	53	58	54	53	56	43	44	38

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
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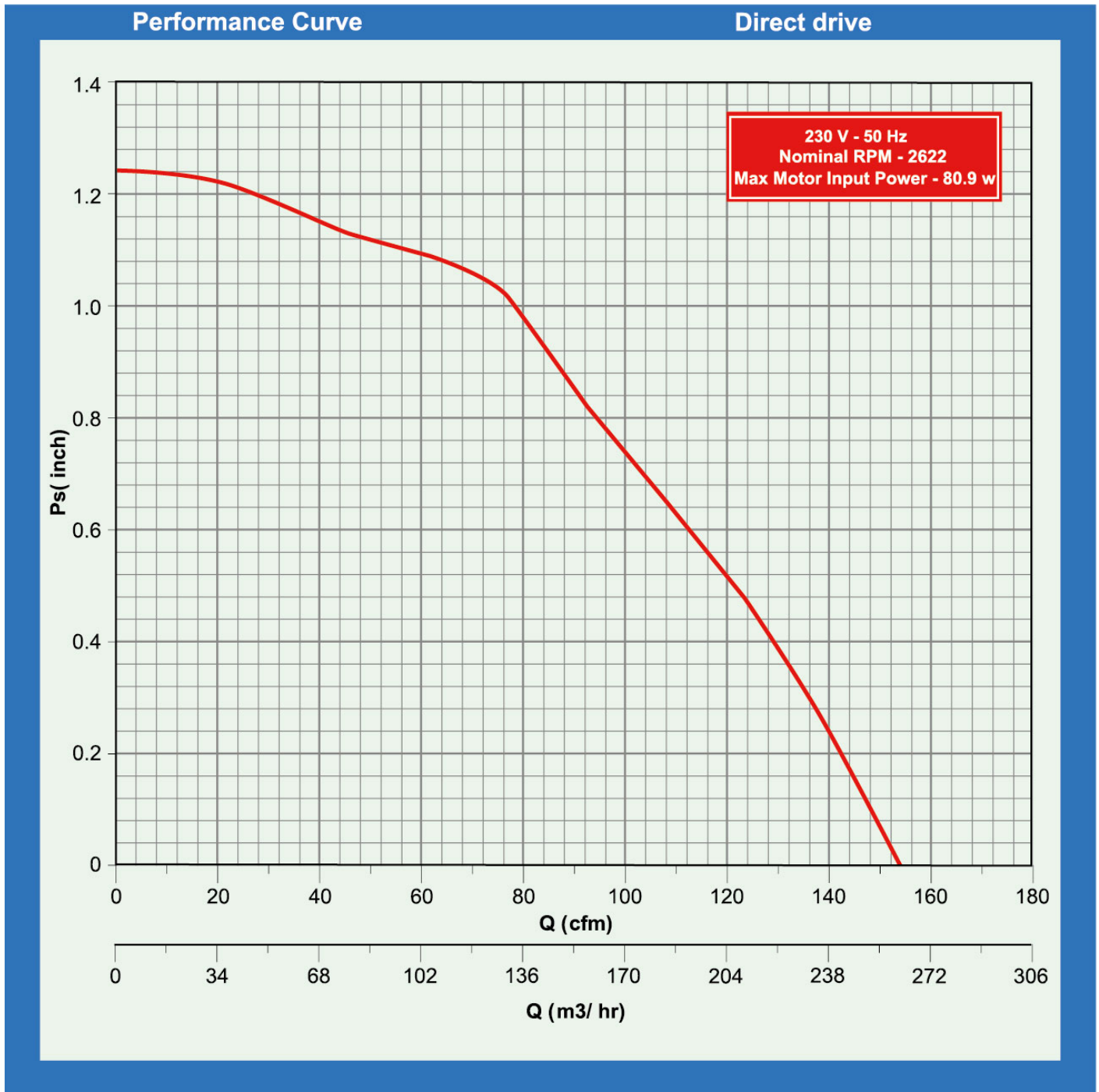
DCE 100 B


- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 100 B

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . Hz (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 100 B	175.1	35.5	35	0.2	230/1/60	44 / B	1	37	54	55	55	53	56	44	44	38

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
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DCE 200 A


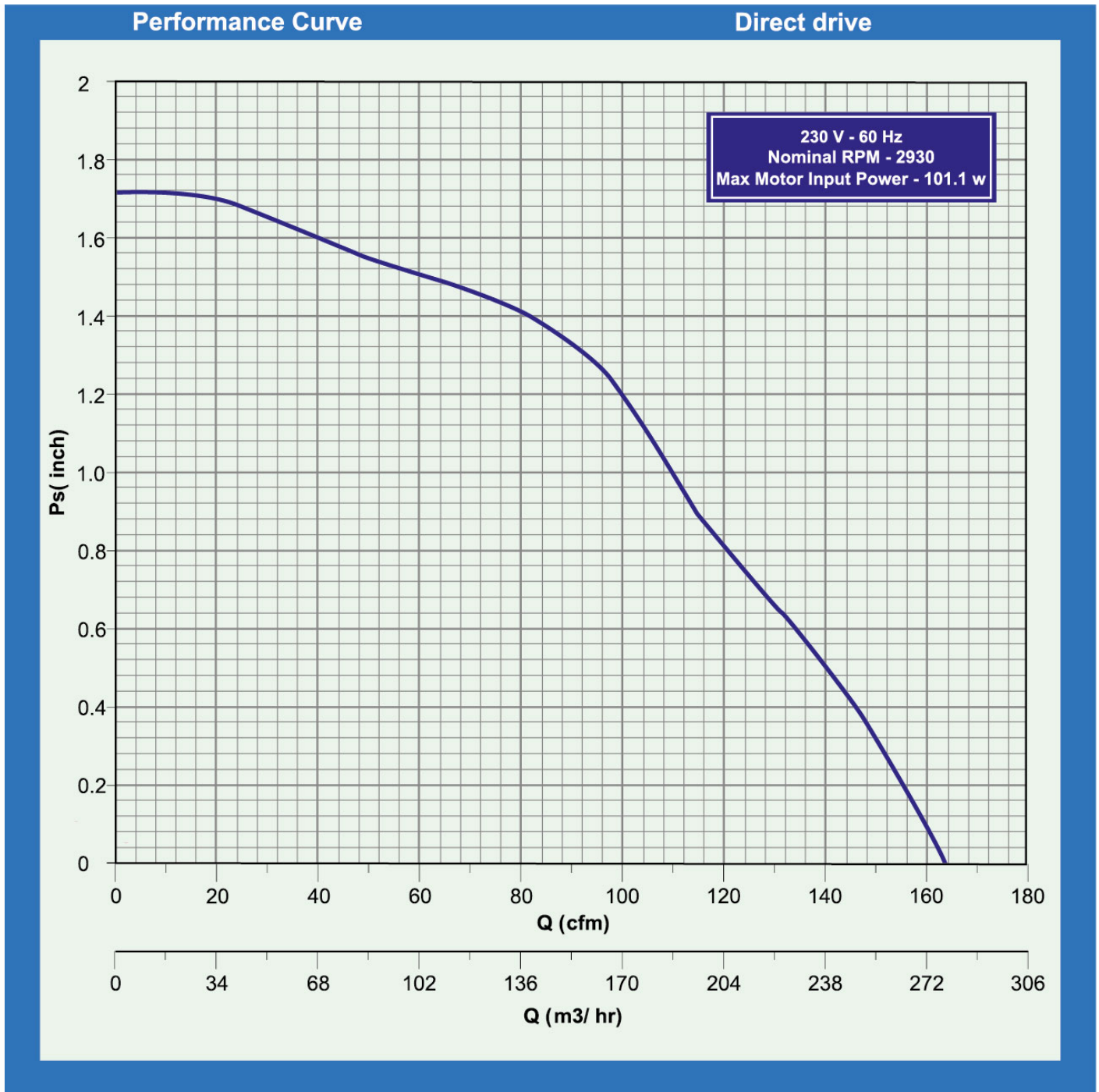
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 200 A

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 200 A	261.8	80.9	80	0.3	220-240/1/50	44 / B	2	43	62	70	65	61	59	49	51	48

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
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DCE 200 A


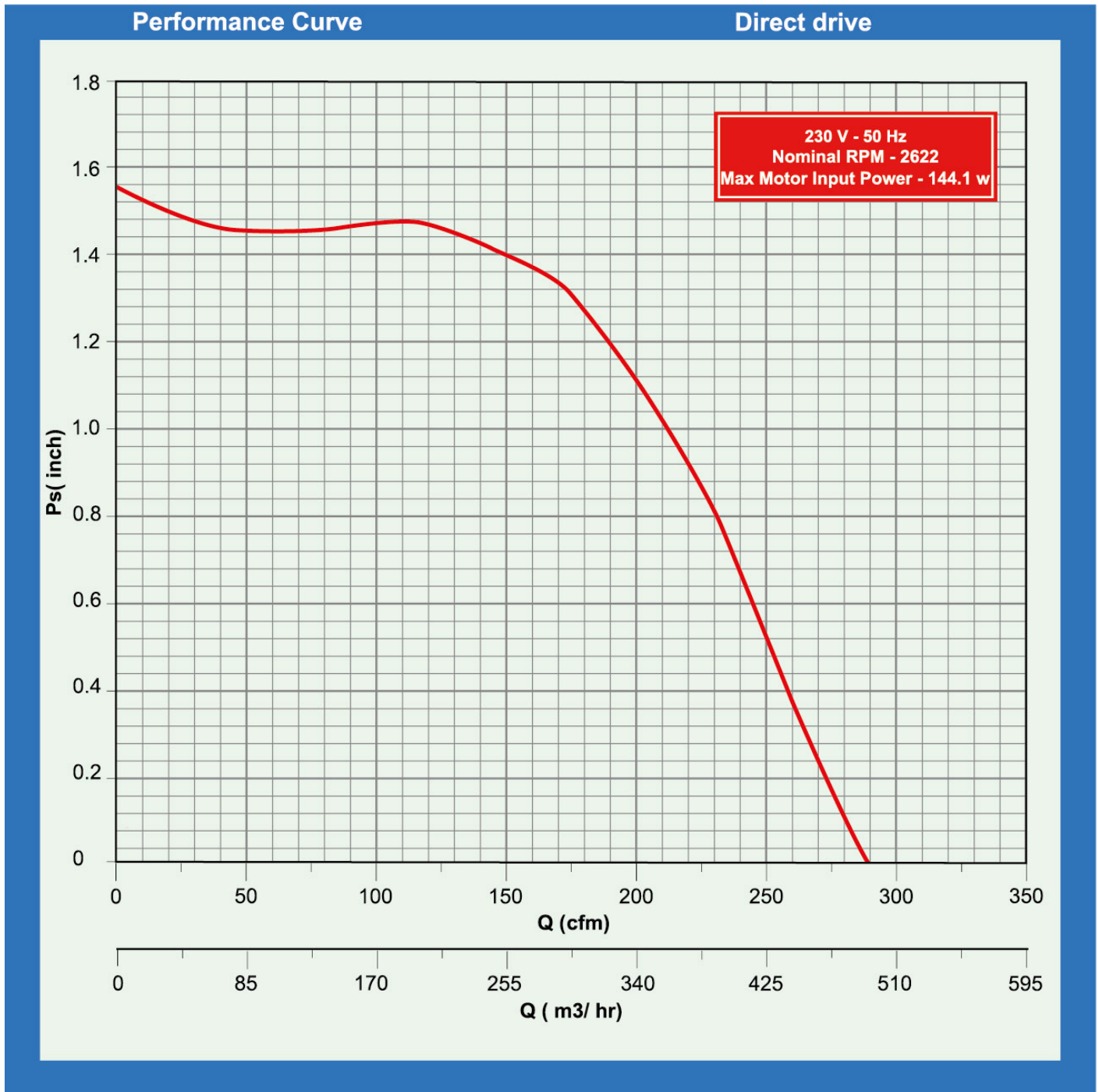
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
 - Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 200 A

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 200 A	278.8	101.1	100	0.4	230/1/60	44 / B	2	44	61	65	67	62	59	52	52	50

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
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DCE 200 B


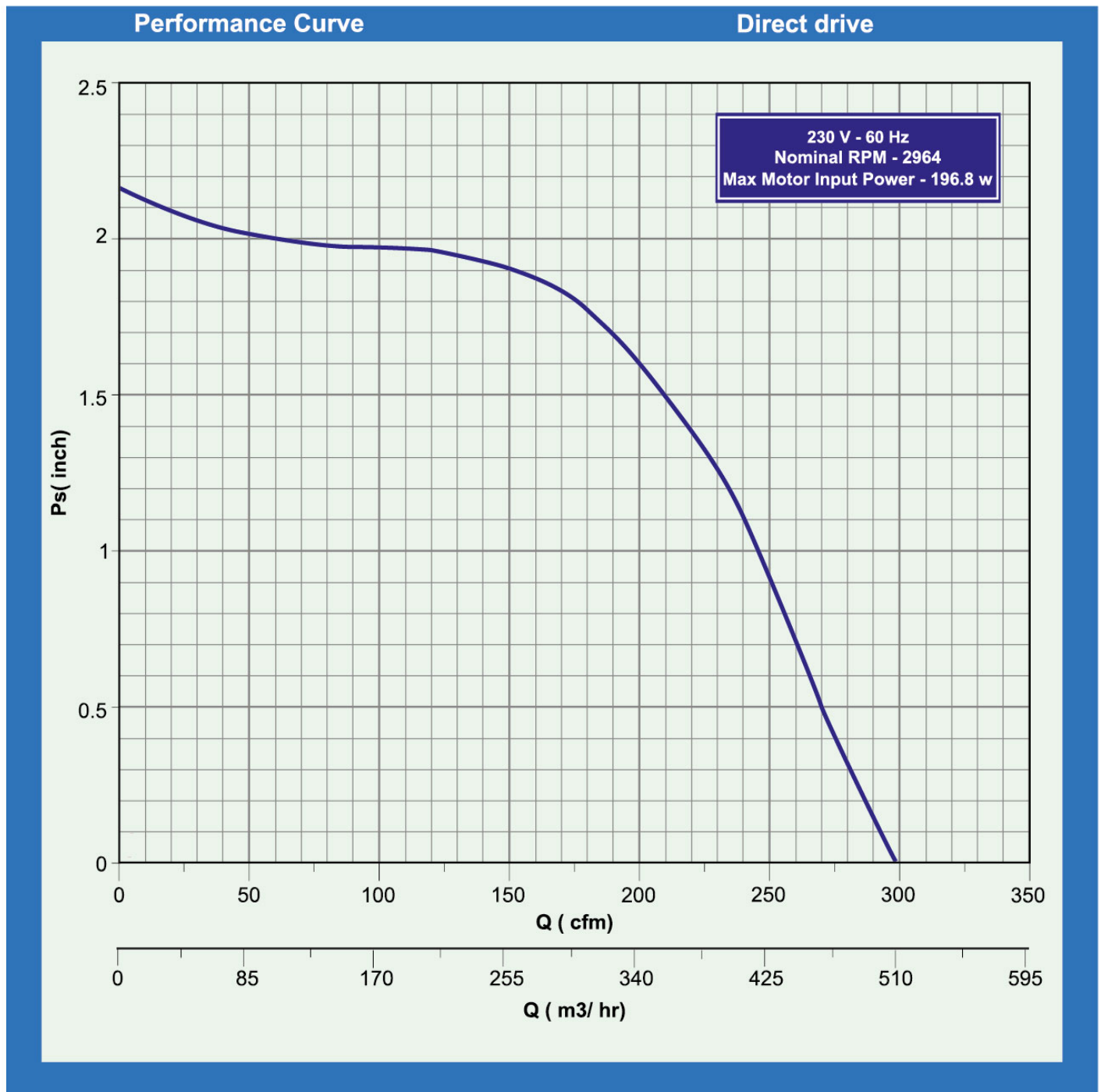
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 200 B

Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
- D 7/7 B	489.6	144.1	160	0.6	220-240/1/50	44 / B	4	50	65	75	73	67	63	57	59	55

P inp - Power input & P out - Max. Motor Power output

- Values shown are for inlet Lwi Sound levels for Installation Type B : free inlet, ducted outlet, Ratings include the effects of duct end correction.
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DCE 200 B


- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
 - Performance certified is for installation type B : free inlet and ducted outlet.

Technical Data for DCE 200 B

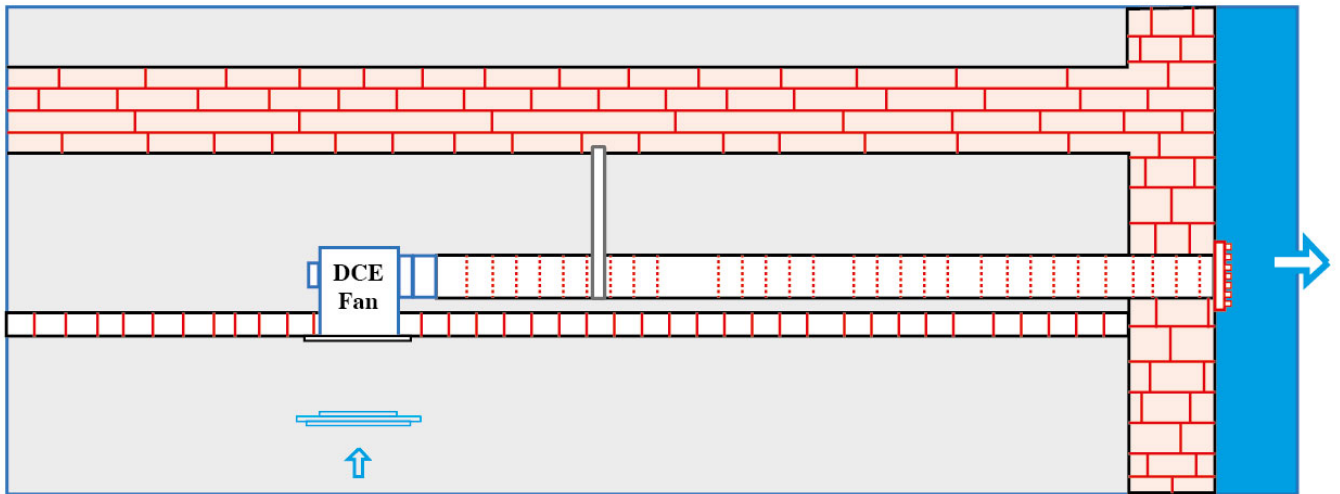
Model	Q (CMH)	POWER (watts)		A (amp)	V / P / Hz	IP / CL	uF	Lp dB(A) at 3m (Free Field)	Octave Band Frequency at max . airflow . H z (Lw,dB)							
		(P inp)	(P out)						63	125	250	500	1K	2K	4K	8K
DCE 200 B	508.3	196.8	205	0.8	230/1/60	44 / B	4	50	67	73	73	68	63	58	59	56

P inp - Power input & P out - Max. Motor Power output

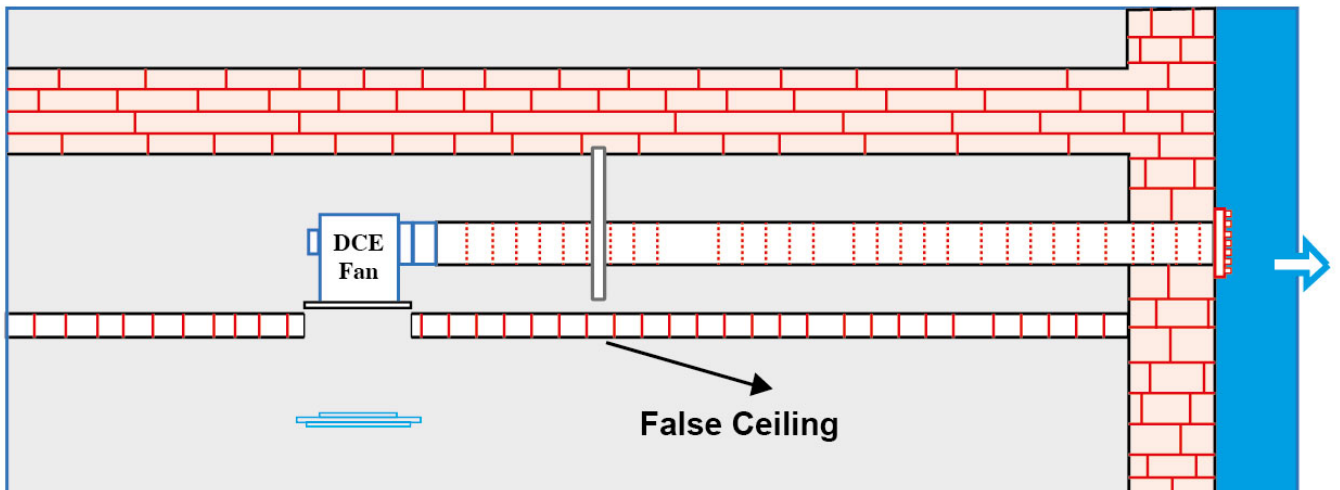
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INSTALLATION GUIDE

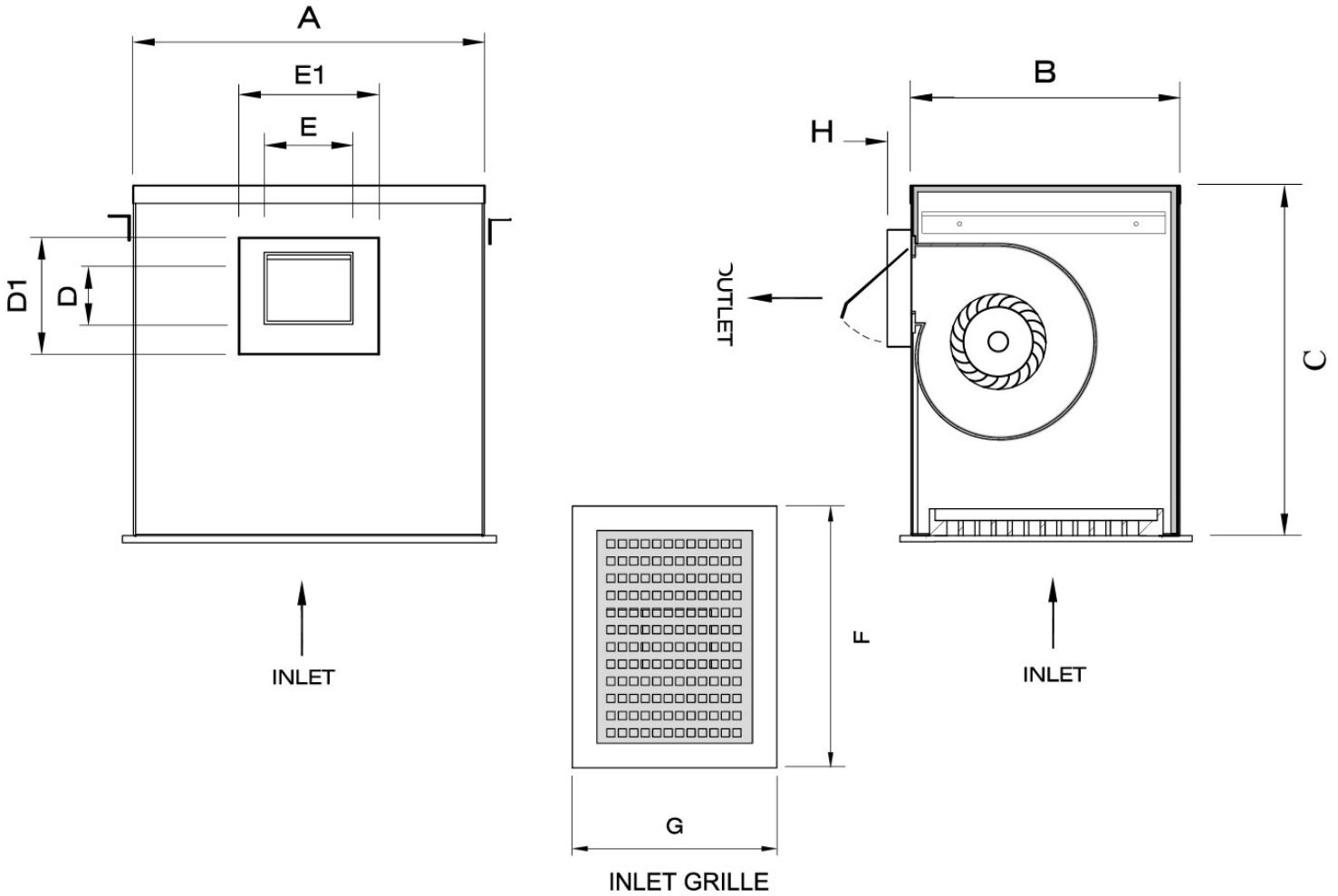
Option 1



Option 2



ASSEMBLY DRAWING



MODEL	A	B	C	D	D1	E	E1	H	EGG GRATE GRILL FxG	WEIGHT (GI cabinet) (Kg)
50 A	200	200	180	42	82	56	86	30	220x220	6
100 A	200	200	200	46	77	51	82	30	220x220	6
100 B	200	200	230	50	92	76	107	30	220x220	6
200 A	230	230	250	50	92	76	107	30	250x250	6
200 B	250	250	300	92	134	94	125	30	270x270	6

