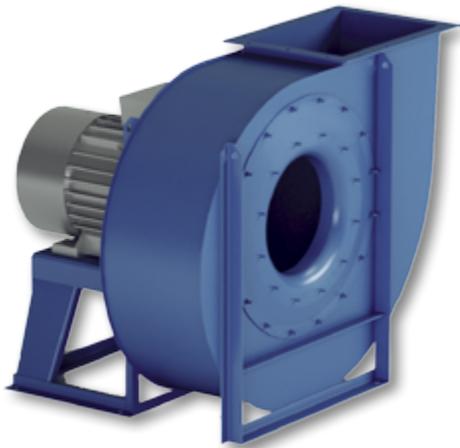




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INDUSTRIAL CENTRIFUGAL FANS FOR DUSTY AIR

APPLICATION

Industrial medium pressure centrifugal fans with backward curved impeller, suitable for transport of potentially very dusty air, sawdust, various chips, granular materials, but not including filaments.

CONSTRUCTION

- Volute made from sheet steel, epoxy powder coated.
- High efficient inlet cone made from sheet steel, epoxy powder coated.
- N°8 RD orientations and n°8 LG.
The units are supplied with RD0° orientation as standard.
- Fan type:
 - in bolted orientable version for sizes 220÷630.
 - fixed orientation for sizes 710÷2000.
- Inspection panel supplied as standard from 710 size (included).
- High efficient single inlet backward curved impeller, made from welded steel and epoxy powder painted.
- Impeller is statically and dynamically balanced in compliance with ISO 1940-1 standard.
- Direct coupling with rotor keyed directly on the motor shaft supported by the pedestal (Es.4).
- Asynchronous three-phase motor, IE2, with PTC, CE marked, IP55, F class, S1 service. **IE2 motors with nominal rated power between 0,75kW and 375kW must be used with speed controller.**

FEATURES & BENEFITS

- Highly robust construction thanks to the material thickness and to the top quality coating.
- Wide range in terms of sizes and versions, beyond the fan selection included in this catalogue, to meet any ventilation needs:
 - Airflow $Q = 360 \div 180.000 \text{ m}^3/\text{h}$.
 - Total pressure $P_{\text{tot}} = 500 \div 5.500 \text{ Pa}$.
- Operating temperature range from -10°C to $+60^\circ\text{C}$.
- Tested to the latest standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.
- Designed and manufactured in accordance with Machinery Directive (MD), Low Voltage Directive (LVD), Electromagnetic Compatibility Directive (EMC) and Regulation 327/2011 (ERP Directive).

ON REQUEST

- Execution 4 upto size 1800.
- Execution 5 upto size 1120.
- Execution 1,8 or 12 upto size 2000.
- Execution 9 upto size 1600.
- Versions suitable for warmer fluid upto 150°C in case of directly coupled fans, and upto 300°C for fans with transmission drive.
- INOX version or other special steel.
- ATEX version.
- IE3 motors.
- Top branded motors (e.g. Siemens).

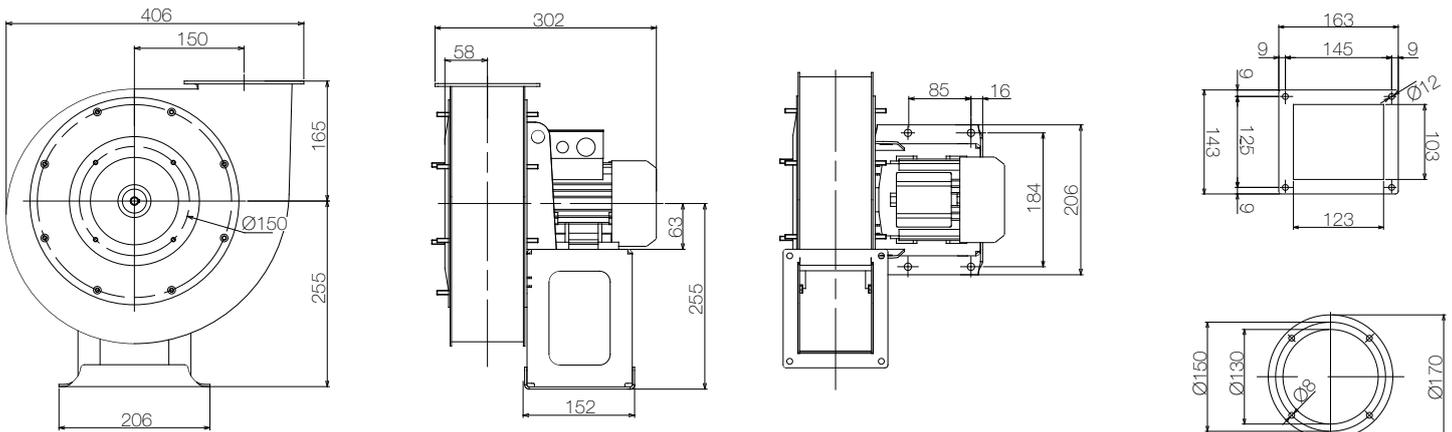
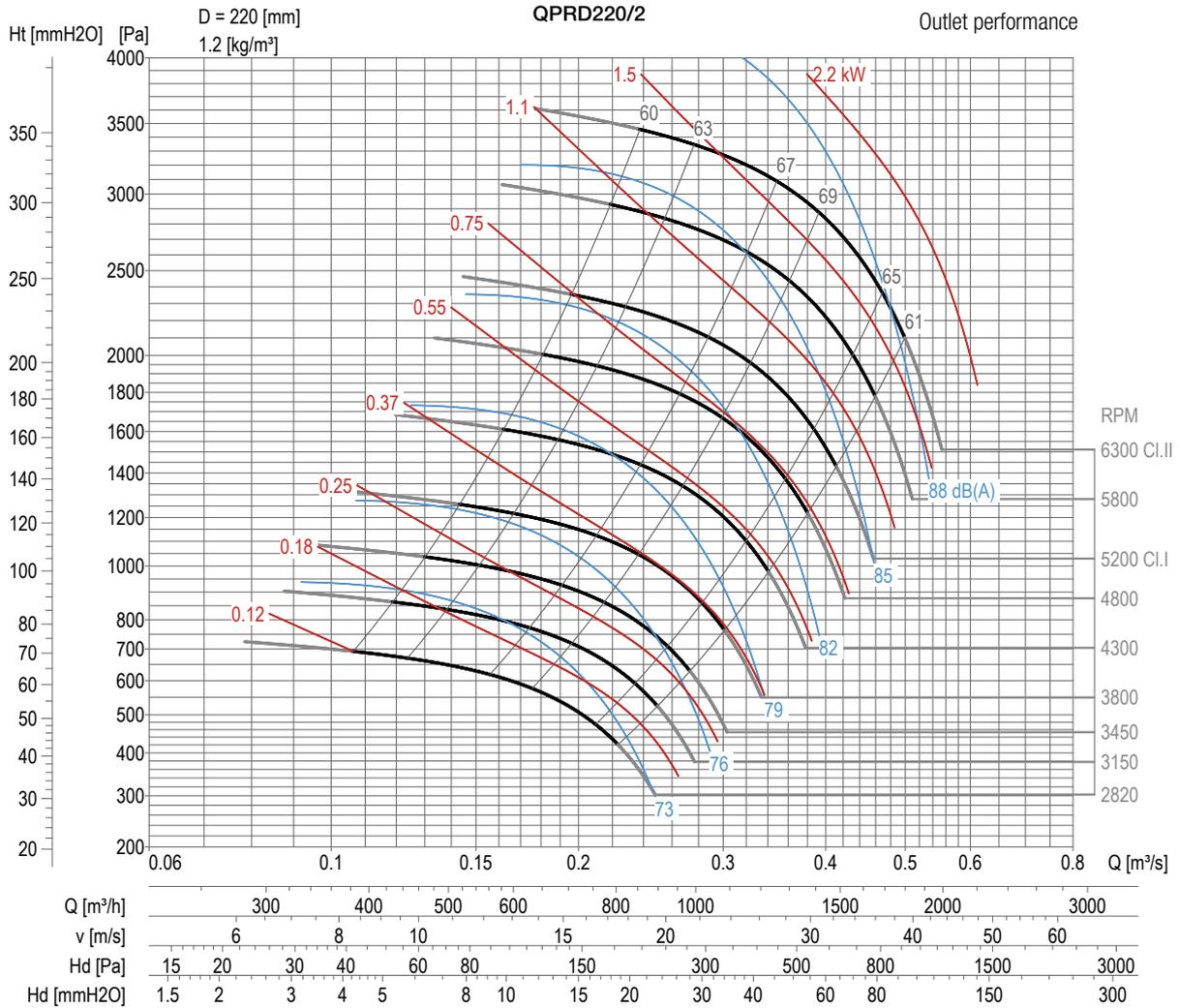
ACCESSORIES

- Inspection panel for sizes up to 630 (included).
- Drainage plug.
- Inlet grid, to be used in case of free inlet.
- Outlet grid, to be used in case of free outlet.
- Inlet counter-flange.
- Outlet counter-flange.
- Inlet anti-vibration mount.
- Outlet anti-vibration mount.
- Air-intake controller.
- Outlet opposing vane louvres.
- Round inlet silencers.
- Rectangular outlet silencers.
- Anti-vibration mounts.

**PLEASE CONTACT
AERAULIQA DIRECTLY FOR
A SPECIFIC FAN SELECTION**

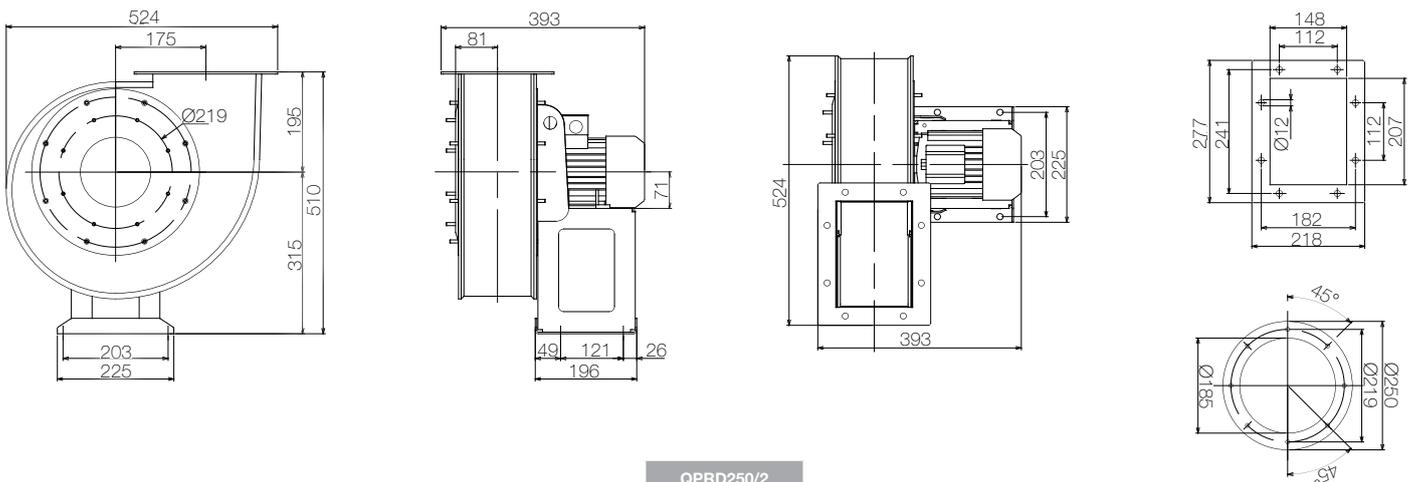
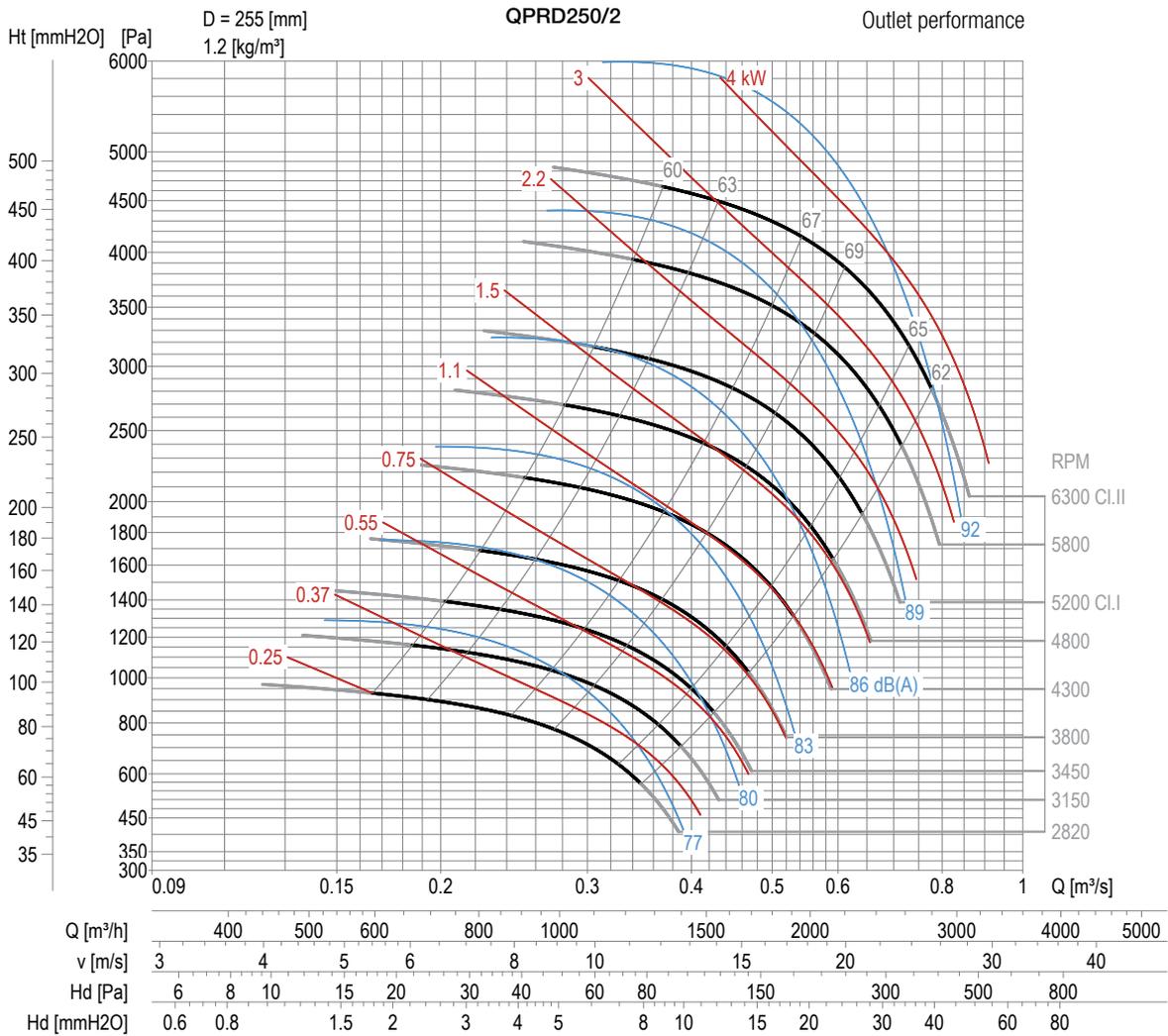
Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD220/2 (esec.4)	-	2	63	0,18	-	-	-	-	-	790	0,08	54



Performances

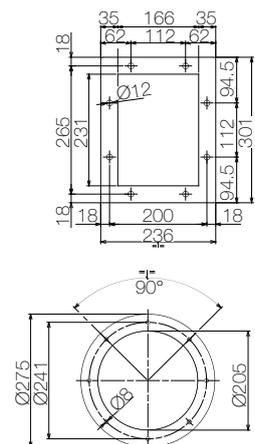
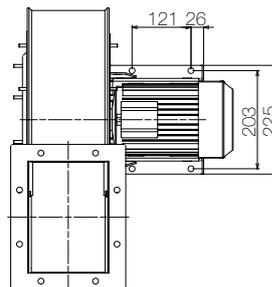
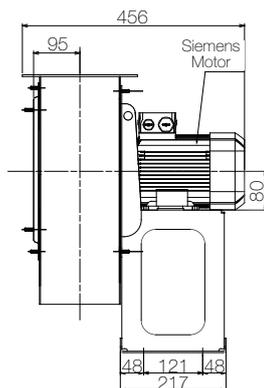
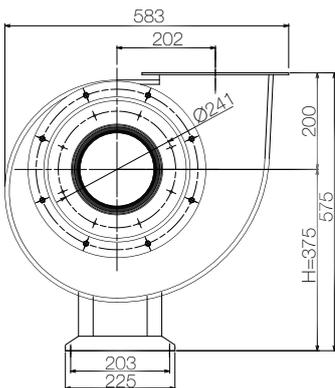
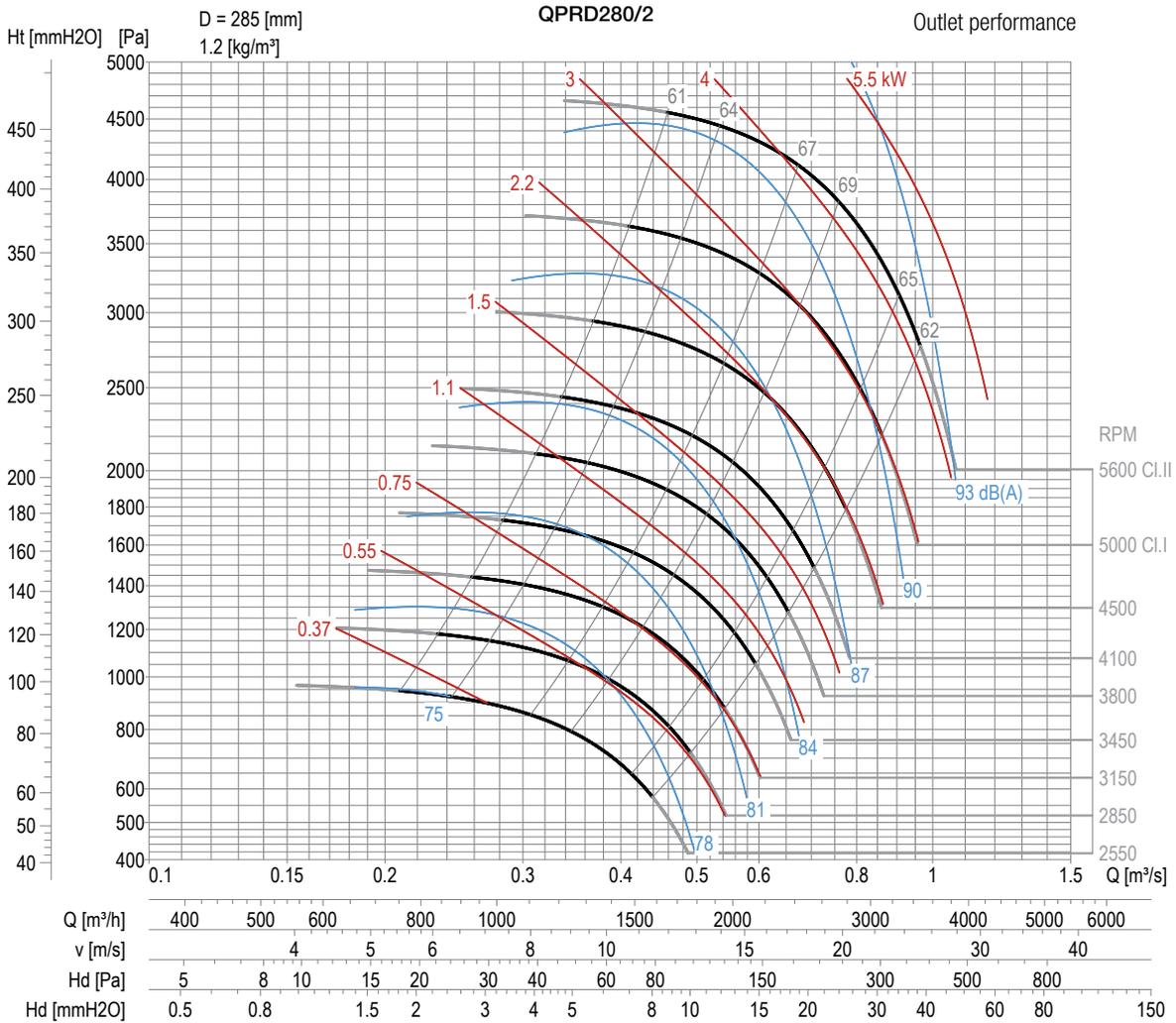
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD250R/2 (esec.4)	-	2	63	0,25	-	-	-	-	-	1080	0,09	57
QPRD250/2 (esec.4)	-	2	71	0,37	-	-	-	-	-	1370	0,10	59



QPRD250/2

Performances

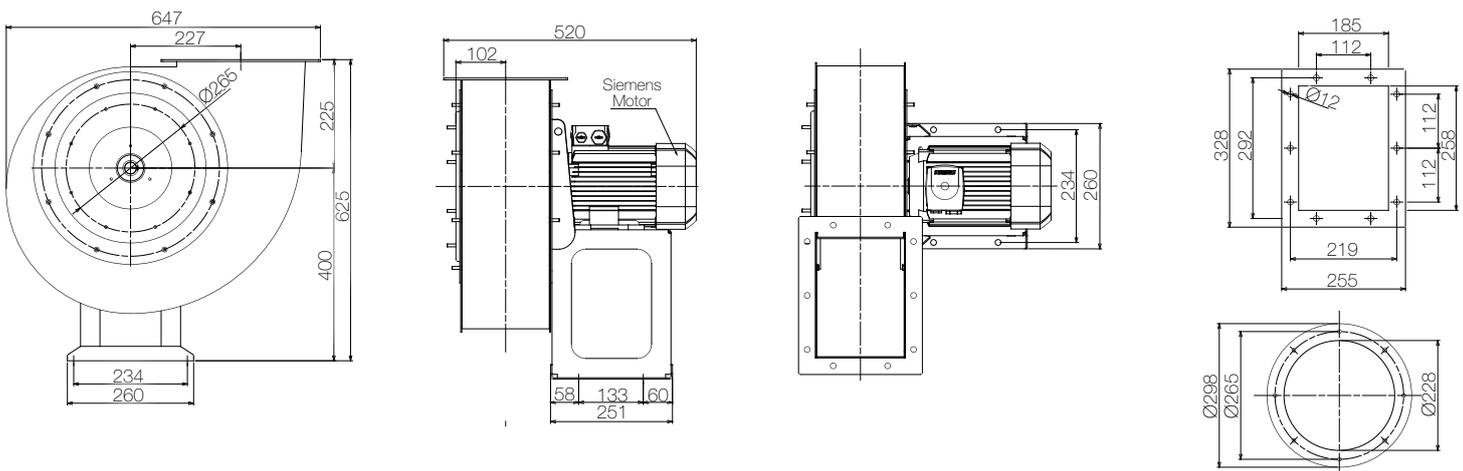
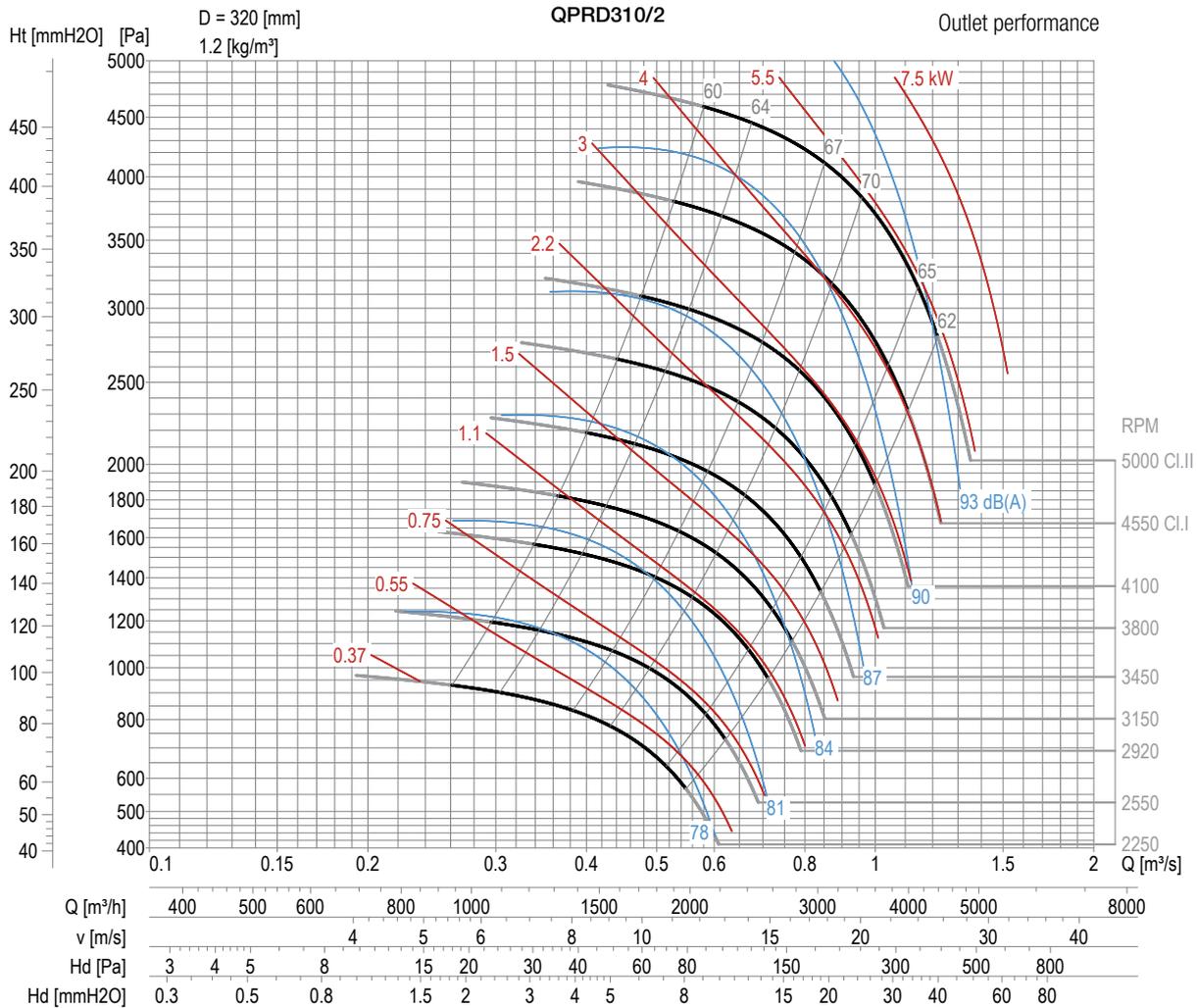
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			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD280R/2 (esec.4)	-	2	71	0,55	-	-	-	-	-	1620	0,15	61
QPRD280/2 (esec.4)	-	2	80	0,75	-	-	-	-	-	1800	0,16	61



QPRD280/2

Performances

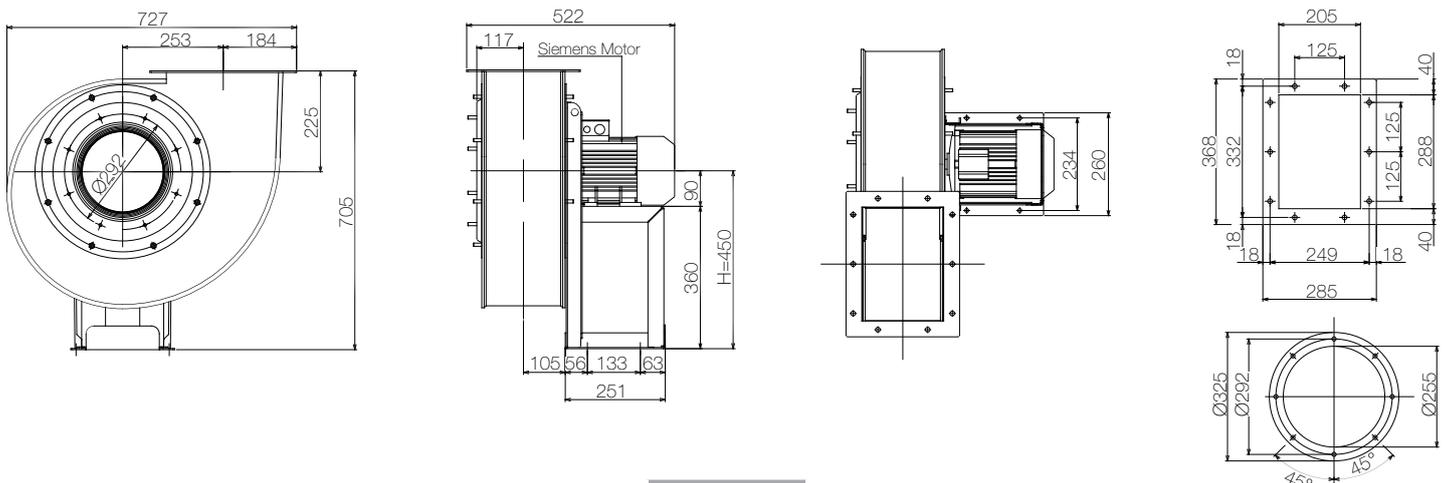
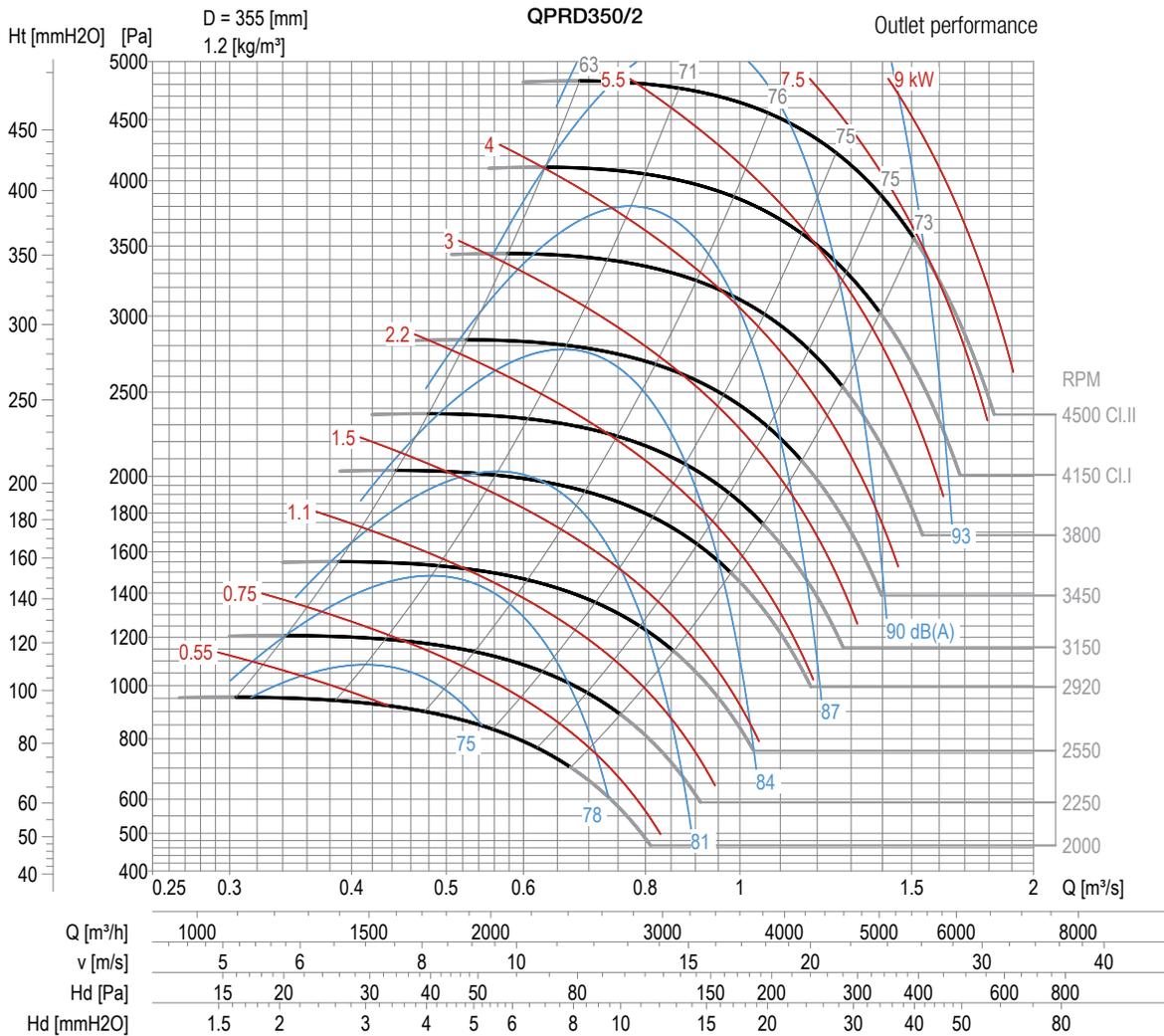
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			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD310R/2 (esec.4)	-	2	80	1,10	-	-	-	-	-	2520	0,19	65
QPRD310/2 (esec.4)	-	2	90	1,50	-	-	-	-	-	2520	0,21	65



QPRD310/2

Performances

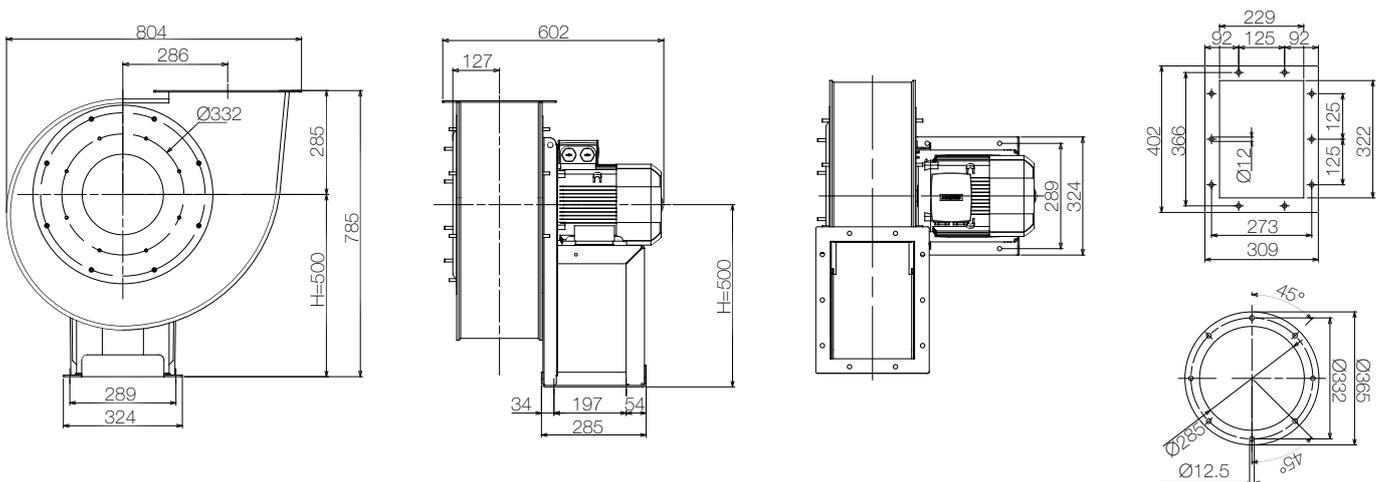
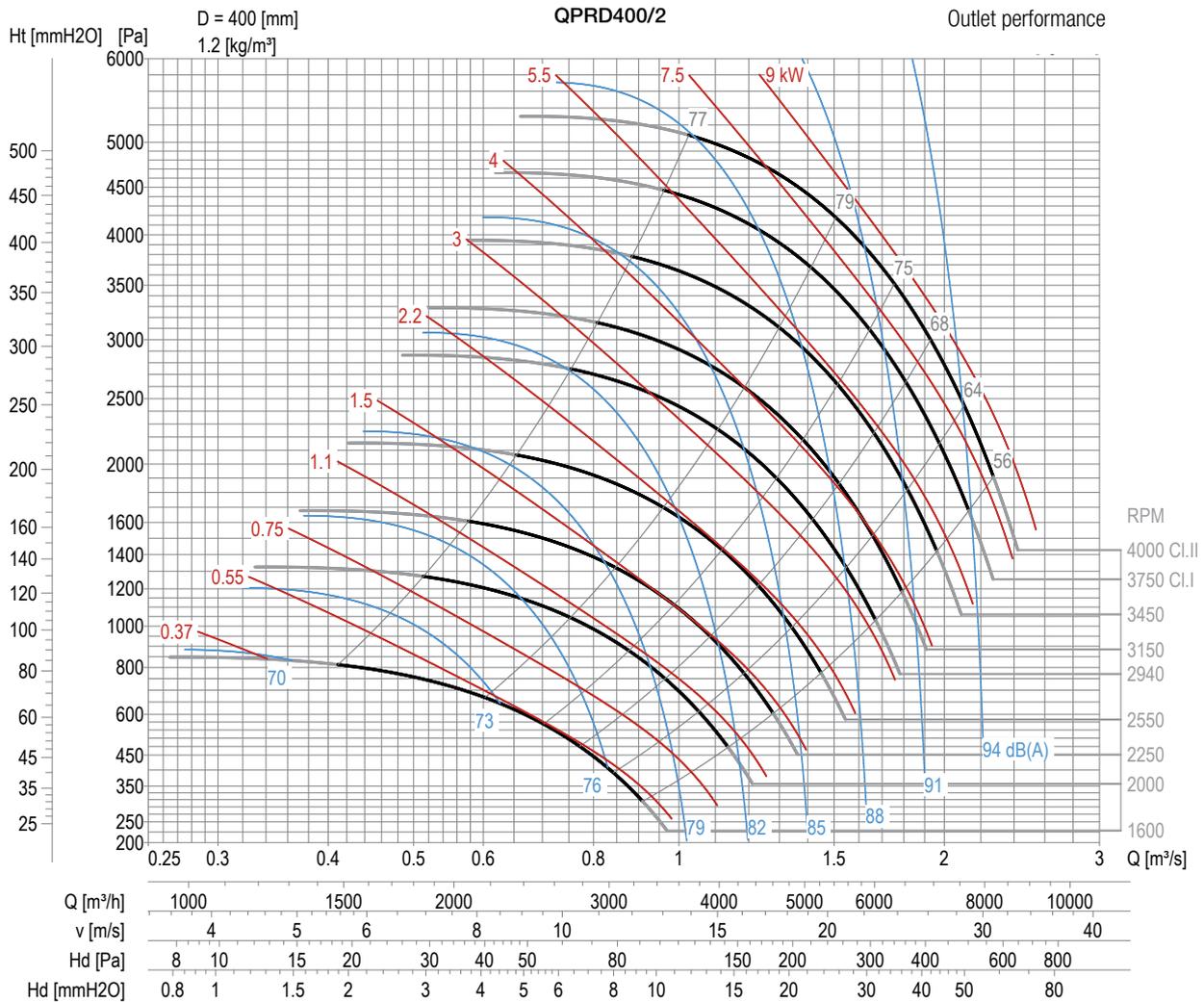
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD350R/2 (esec.4)	-	2	90	1,50	-	-	-	-	-	2160	0,43	63
QPRD350/2 (esec.4)	-	2	90	2,2	-	-	-	-	-	3960	0,50	68



QPRD350/2

Performances

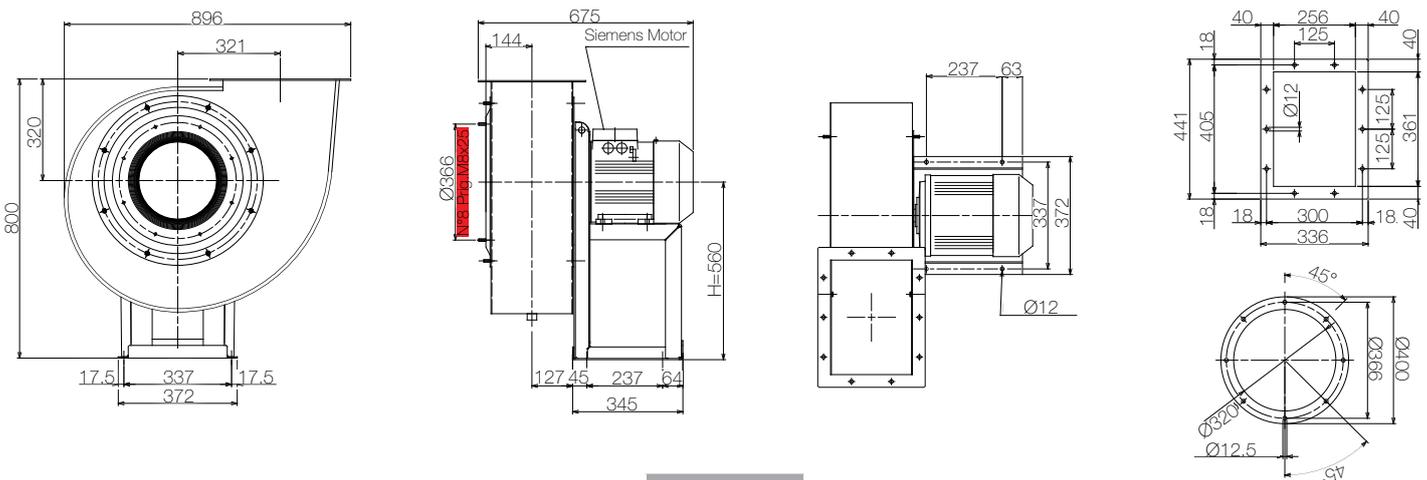
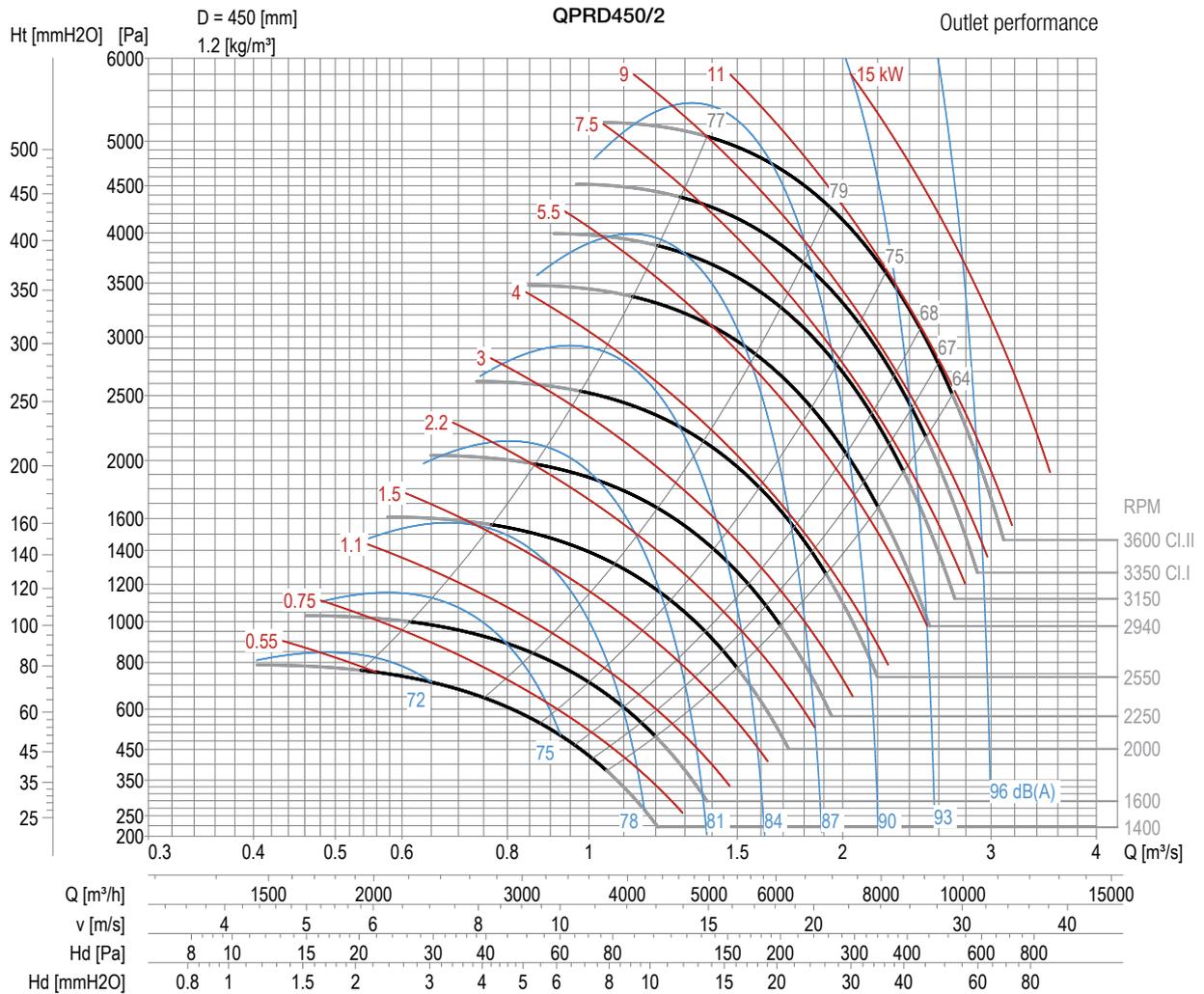
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD400R/2 (esec.4)	-	2	100	3	-	-	-	-	-	5400	0,70	70
QPRD400/2 (esec.4)	-	2	112	4	-	-	-	-	-	6120	0,80	71



QPRD400/2

Performances

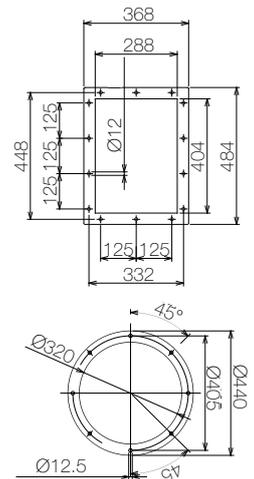
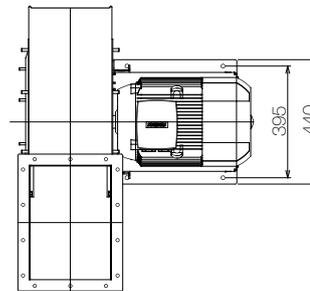
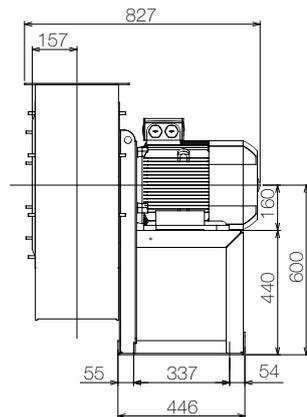
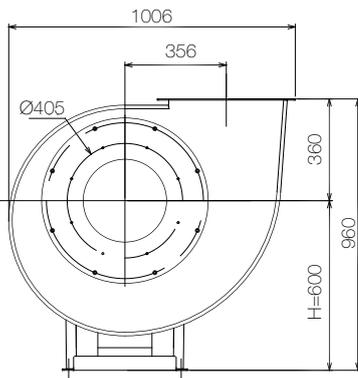
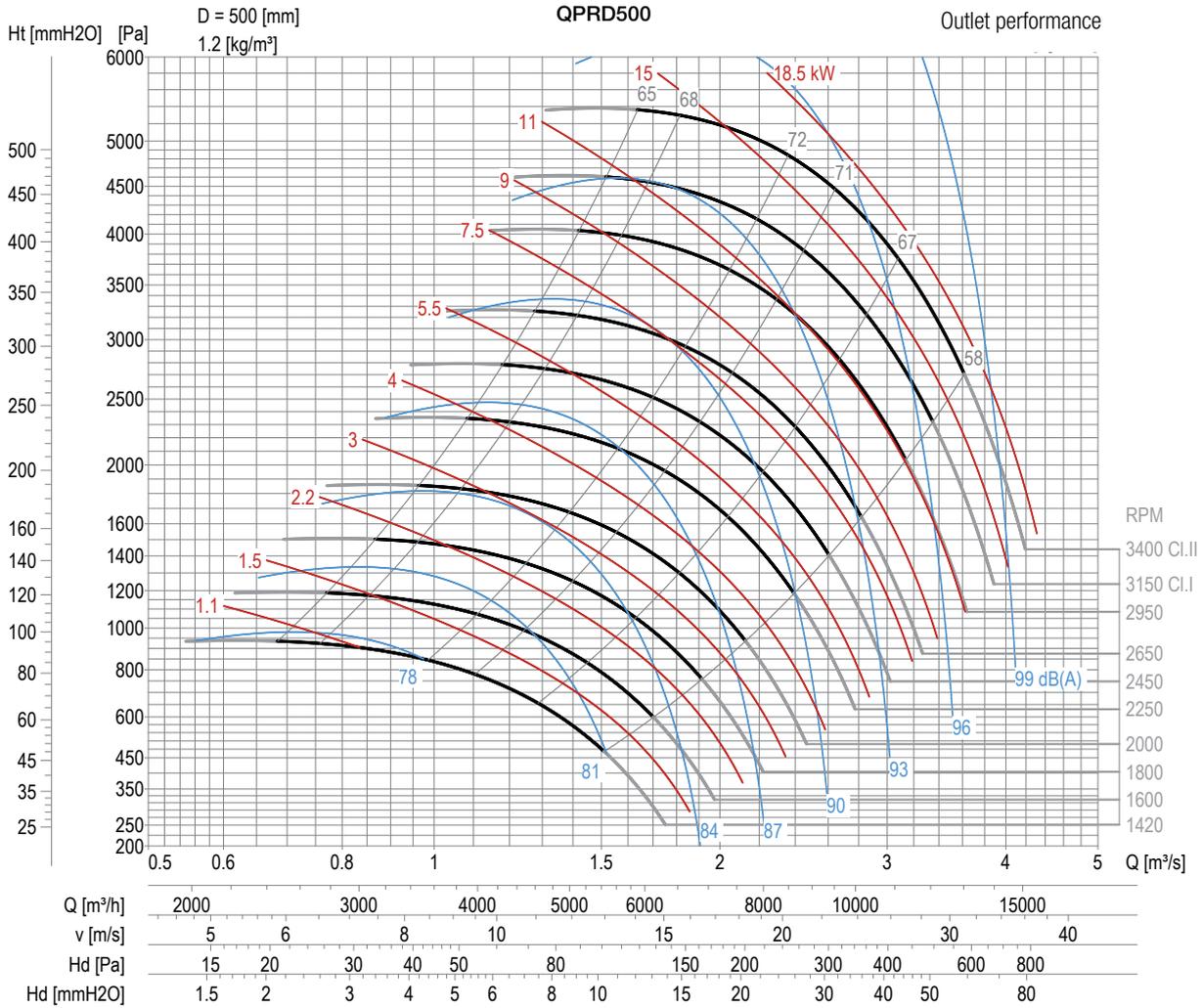
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD450R/2 (esec.4)	-	2	132	5,5	-	-	-	-	-	7920	1,20	74
QPRD450/2 (esec.4)	-	2	132	7,5	-	-	-	-	-	7920	1,40	73



QPRD450/2

Performances

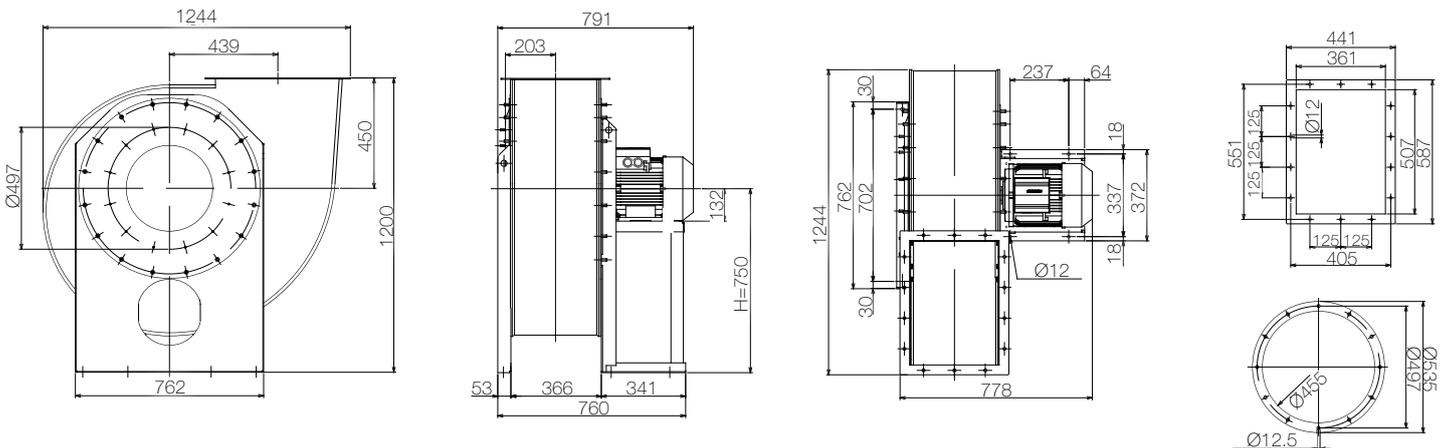
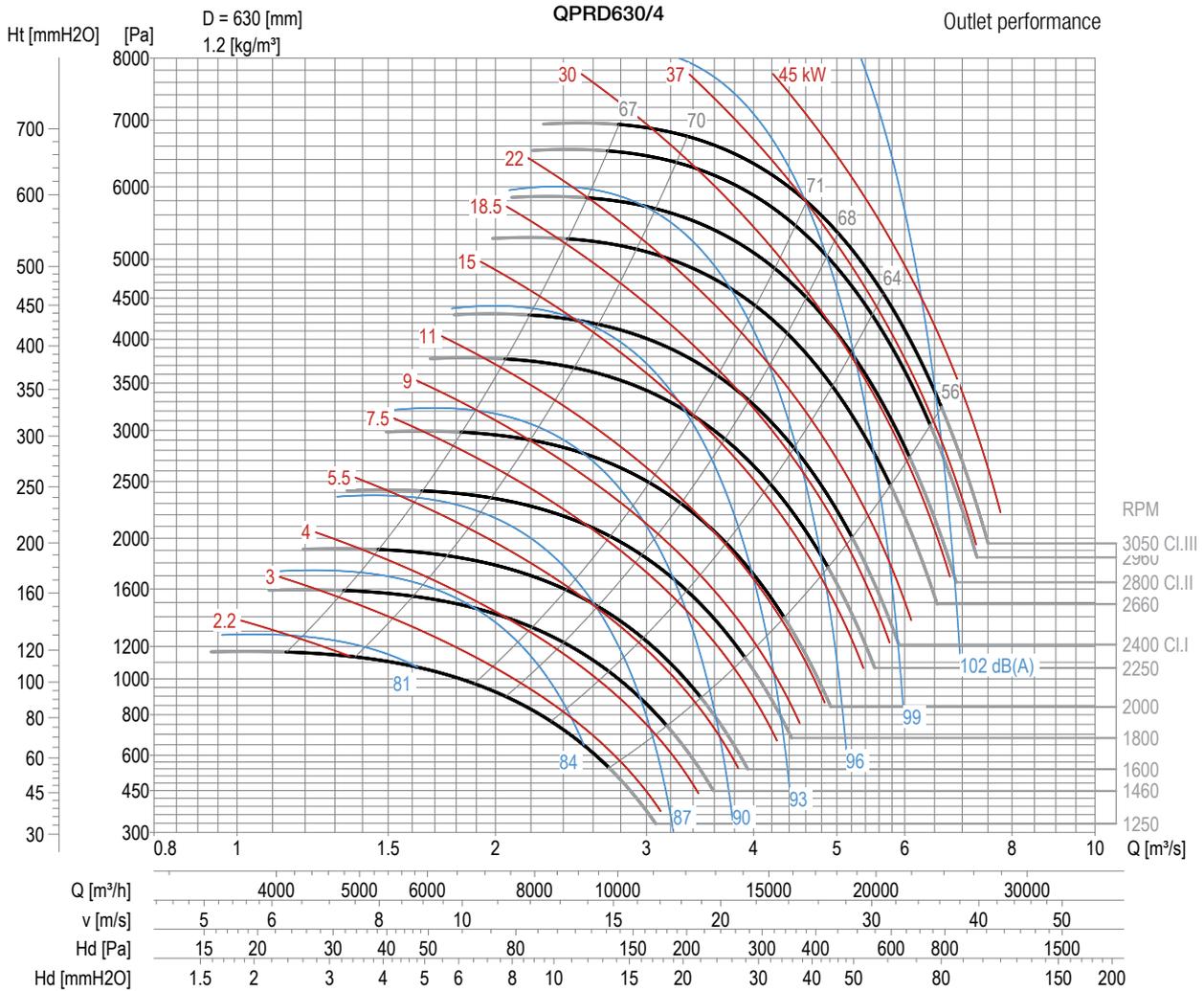
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			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD500R/2 (esec.4)	-	2	160	11	-	-	-	-	-	10800	2,30	77
QPRD500R/4 (esec.4)	-	4	90	1,1	-	-	-	-	-	4680	2,10	62
QPRD500/2 (esec.4)	-	2	160	15	-	-	-	-	-	10800	2,60	77
QPRD500/4 (esec.4)	-	4	90	1,5	-	-	-	-	-	5400	2,20	64



QPRD500/2

Performances

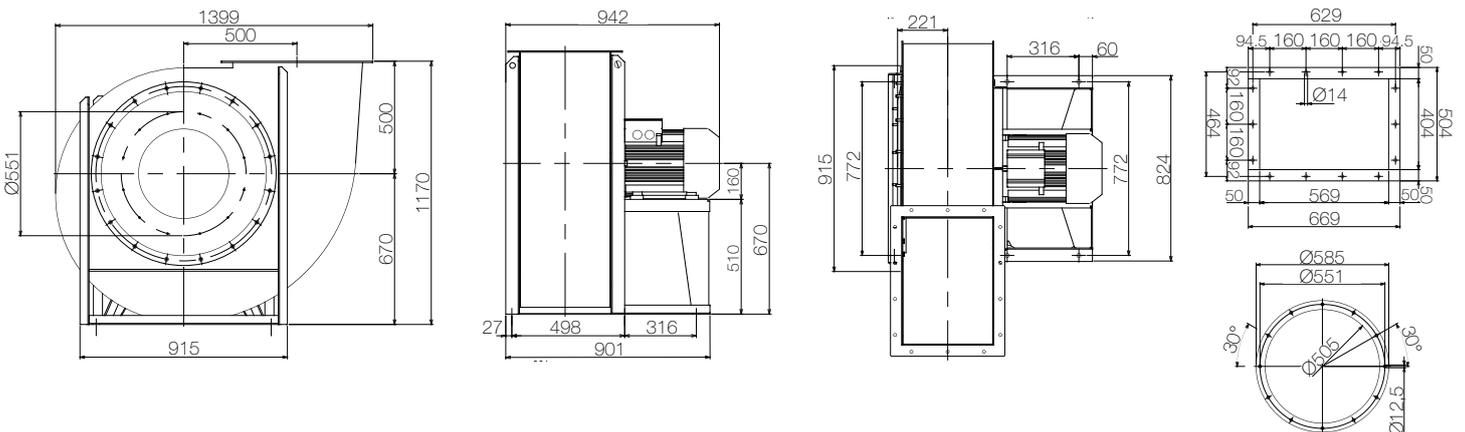
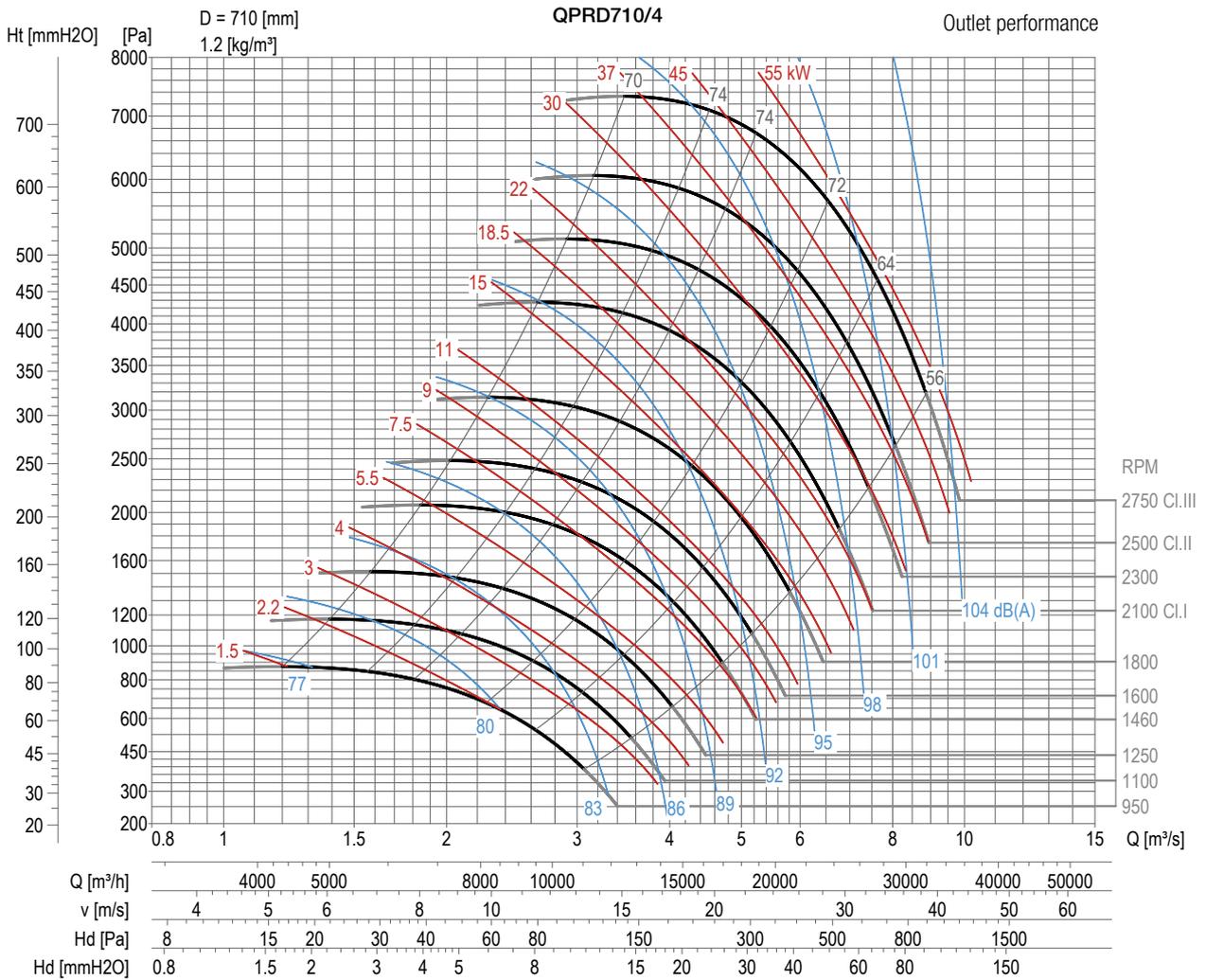
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			size	kW	A	A		%	N	m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD630R/4 (esec.4)	-	4	112	4	-	-	-	-	-	10080	5,60	69
QPRD630/4 (esec.4)	-	4	132	5,50	-	-	-	-	-	10800	6,30	70



QPRD630/4

Performances

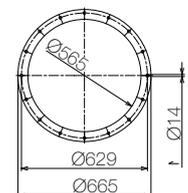
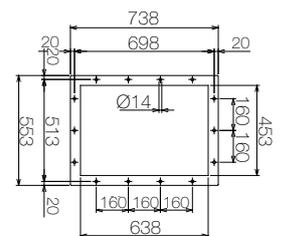
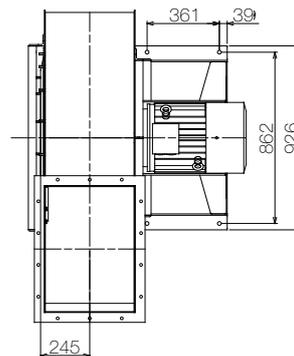
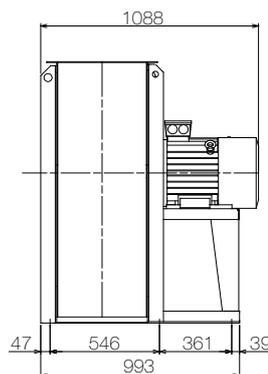
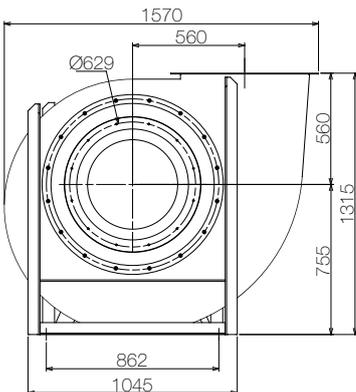
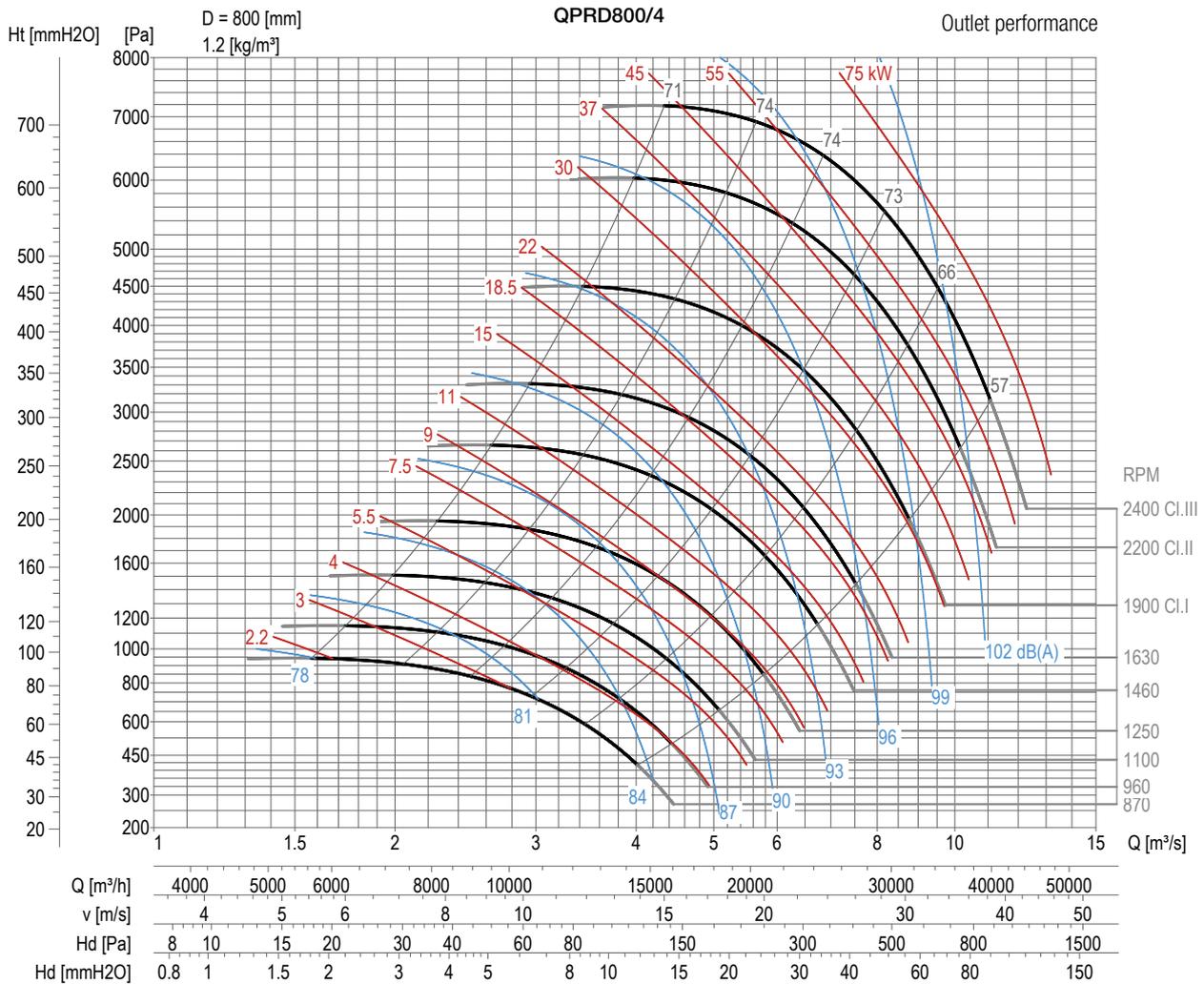
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD710R/4 (esec.4)	-	4	132	7,5	-	-	-	-	-	14400	10	72
QPRD710/4 (esec.4)	-	4	160	11	-	-	-	-	-	18000	11	74



QPRD710/4

Performances

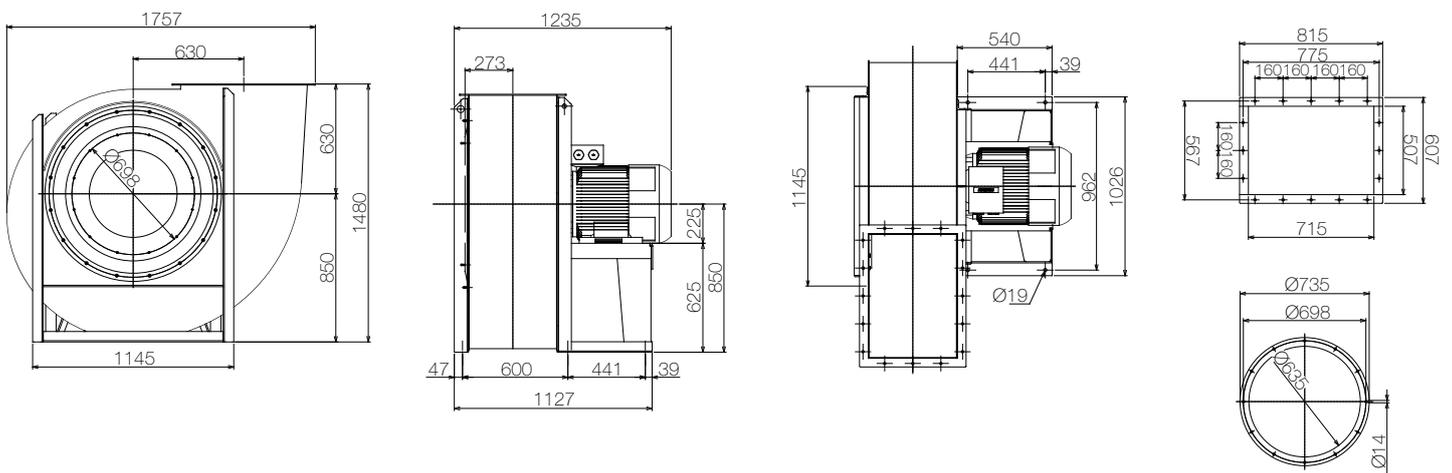
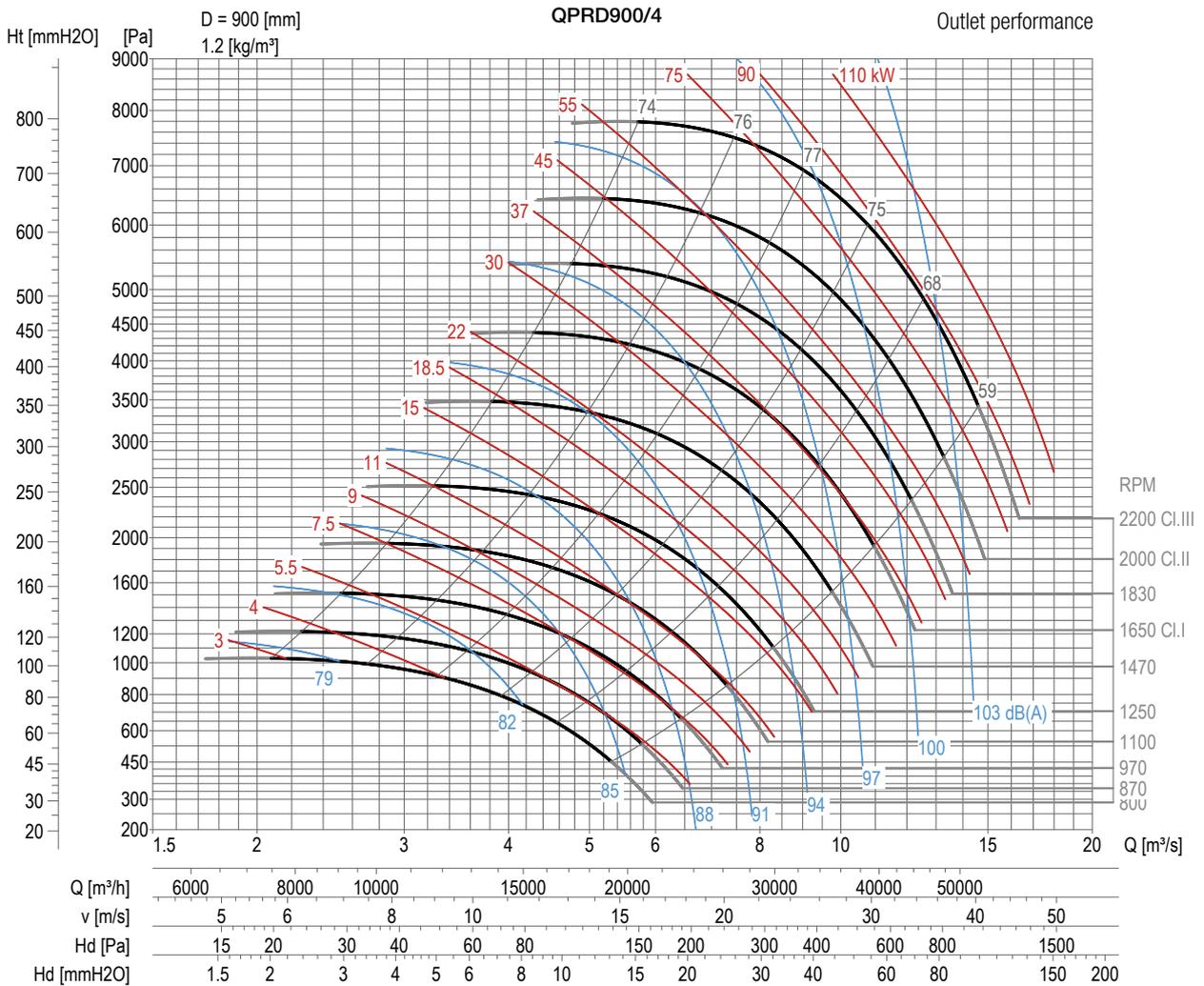
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			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD800R/4 (esec.4)	-	4	160	15	-	-	-	-	-	21600	17	75
QPRD800/4 (esec.4)	-	4	180	18,50	-	-	-	-	-	25200	19	76



QPRD800/4

Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRD900R/4 (esec.4)	-	4	200	30	-	-	-	-	-	32400	30	78
QPRD900/4 (esec.4)	-	4	225	37	-	-	-	-	-	32400	34	78



QPRD900/4