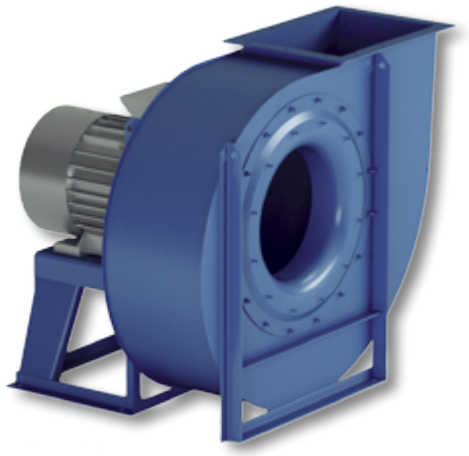
QPRB



INDUSTRIAL CENTRIFUGAL FANS WITH MEDIUM-HIGH PRESSURE

APPLICATION

Industrial medium-high pressure centrifugal fans with backward curved impeller, suitable for exhausting clean or slightly dusty air of ventilation, filtration, air-conditioning and heating, in civil or industrial plants. They can be used in industrial applications as well, to exhaust clean or dusty (non-abrasive) air, also containing small amount of sawdust, various chips, granular material but not including filaments.

CONSTRUCTION

- Volute and high efficient inlet cone made from sheet steel, epoxy powder coated with a medium thickness of 70micron.
- 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 250÷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÷216.000m^3/h.
  - Total pressure P_{tot} = 700÷9.000Pa.
- Operating temperature range from -10°C to +60°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 250°C in case of directly coupled fans, and upto 450°C for fans with transmission drive.
- INOX version or other special steel.
- ATEX versionfor zone 1, 21, 2 and 22.
- IE3 motors.
- Top branded motors (e.g. Siemens).

ACCESSORIES (on request)

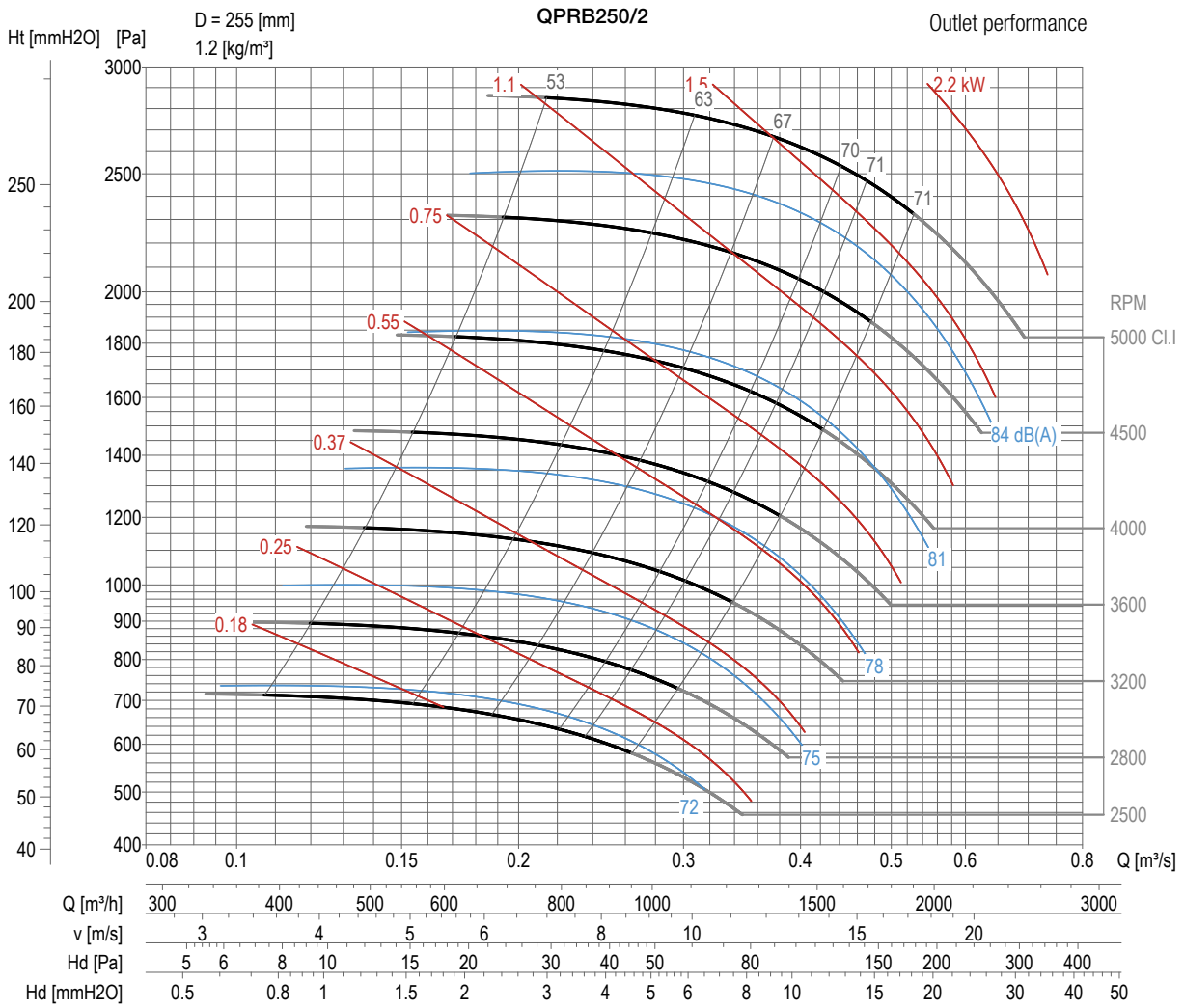
- Inspection panel for sizes up to 630 (included).
- Drainage plug.
- Inlet grid, to be used in case of free inlet.
- Outlet grid, to be used in case of free outlet.
- Inlet counter-flange.
- Outlet counter-flange.
- Inlet anti-vibration mount.
- Outlet anti-vibration mount.
- Air-intake controller.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

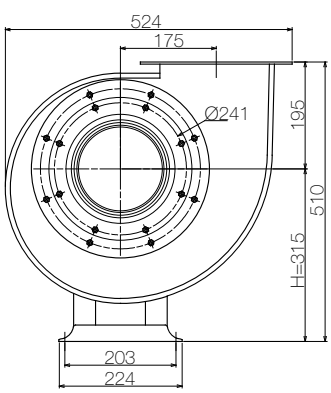
PLEASE CONTACT AERAULIQA DIRECTLY FOR A SPECIFIC FAN SELECTION

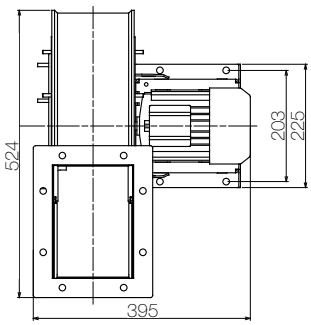
QPRB

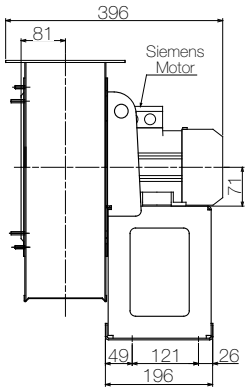
Performances

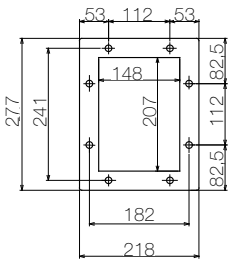
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB250/2 (esec.4)	-	2	71	0,37	-	-	-	-	-	1080	0,10	56

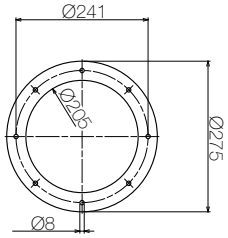






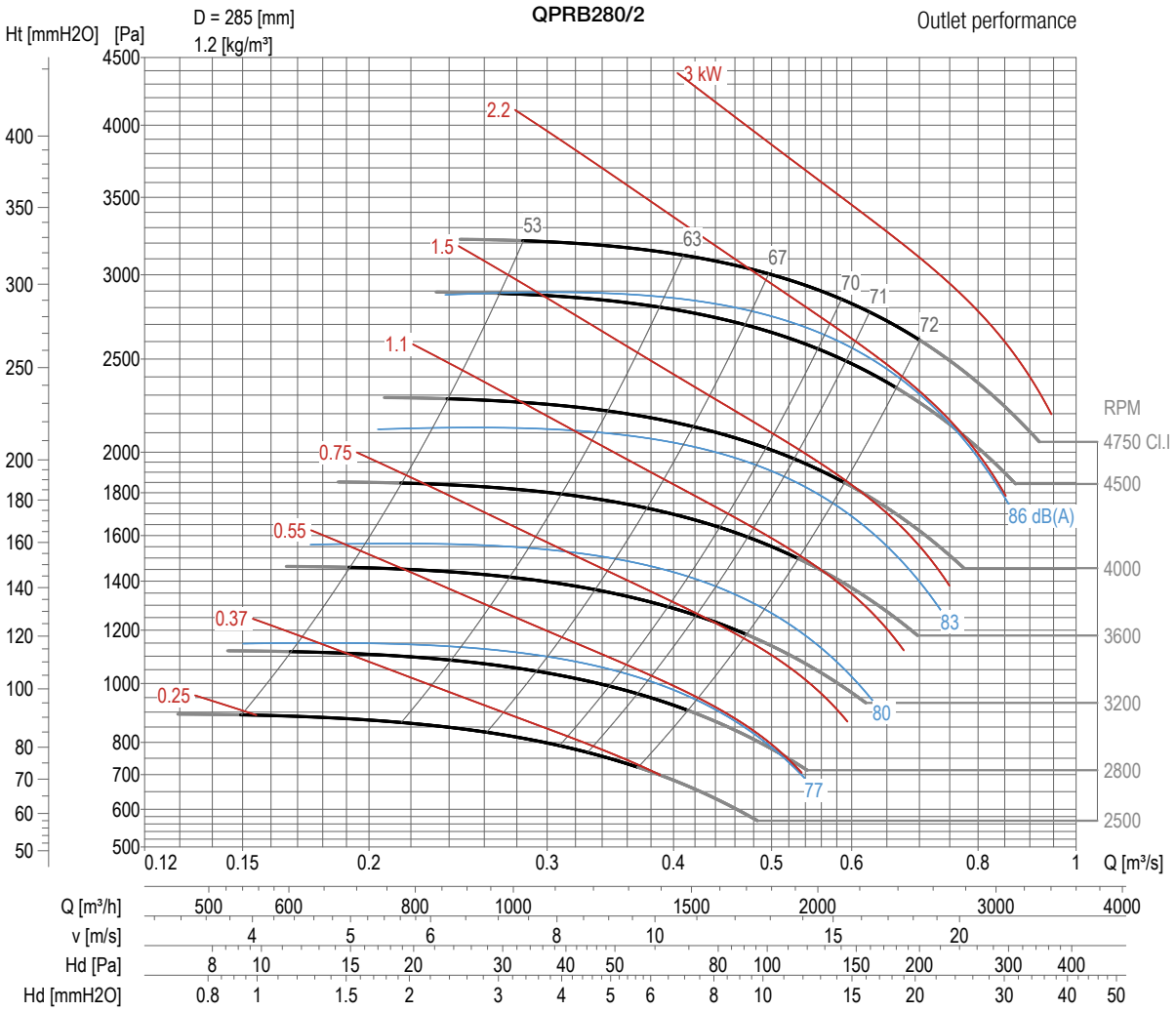


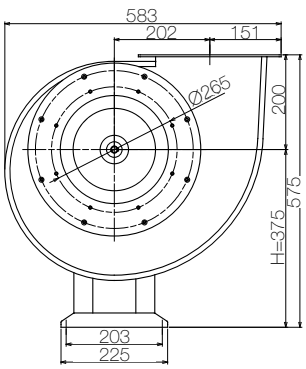


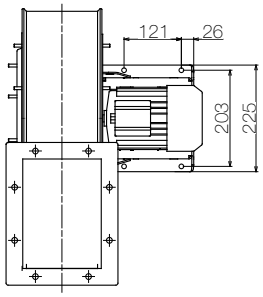


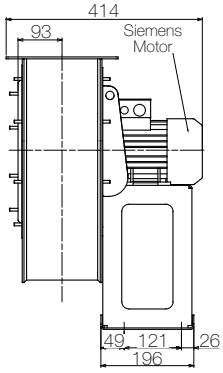
Performances

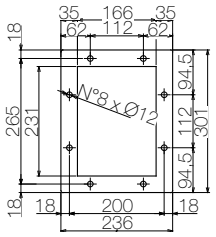
Description	Code	Poles	Motor size	P mec kW	I nom A	I start A	IP/Cl.	Efficiency %	FMEG N	Q max m³/h	PD² kgm²	Lp dB(A) @1,5m Breakout
QPRB280/2 (esec.4)	-	2	71	0,55	-	-	-	-	-	1440	0,13	59

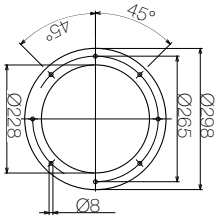








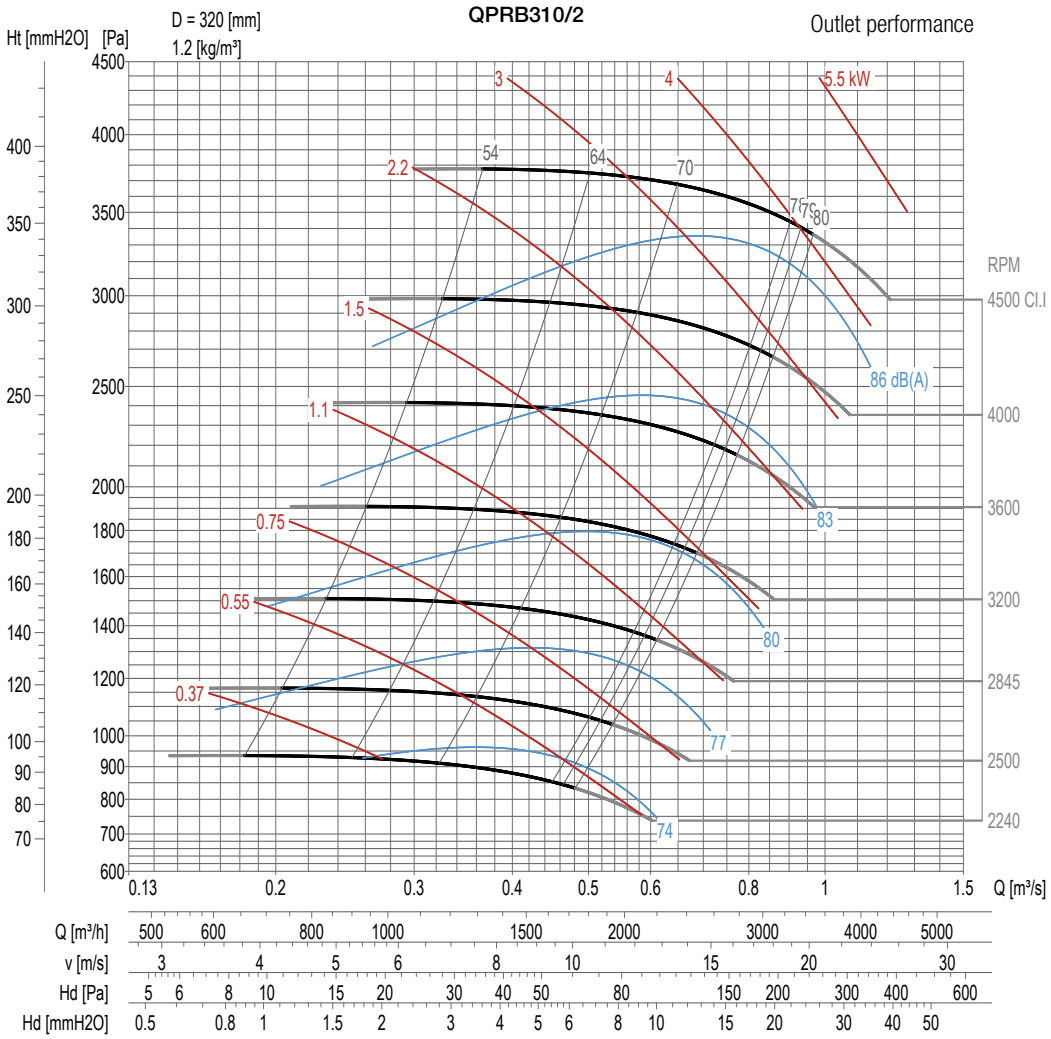


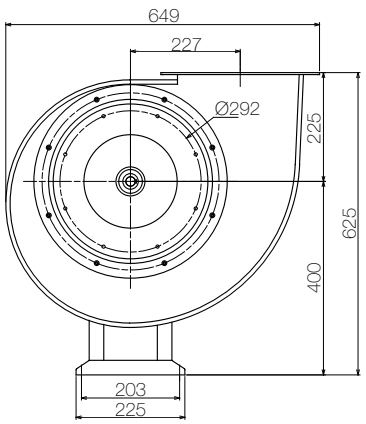


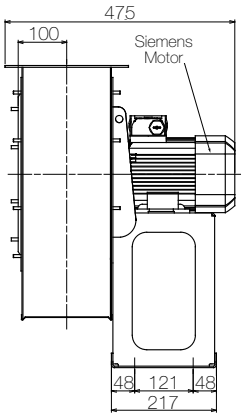
QPRB

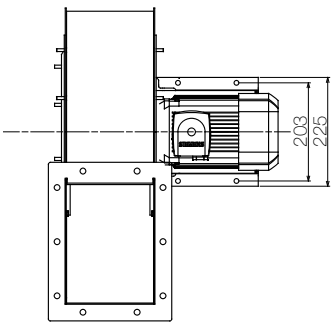
Performances

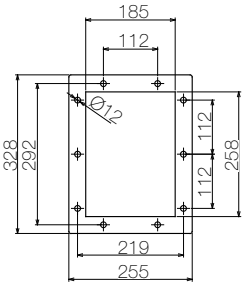
Description	Code	Poles	Motor size	P mec kW	I nom A	I start A	IP/Cl.	Efficiency %	FMEGN	Q max m³/h	PD² kgm²	Lp dB(A) @1,5m Breakout
QPRB310/2 (esec.4)	-	2	80	1,1	-	-	-	-	-	2160	0,24	60

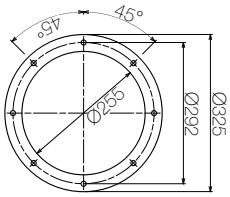






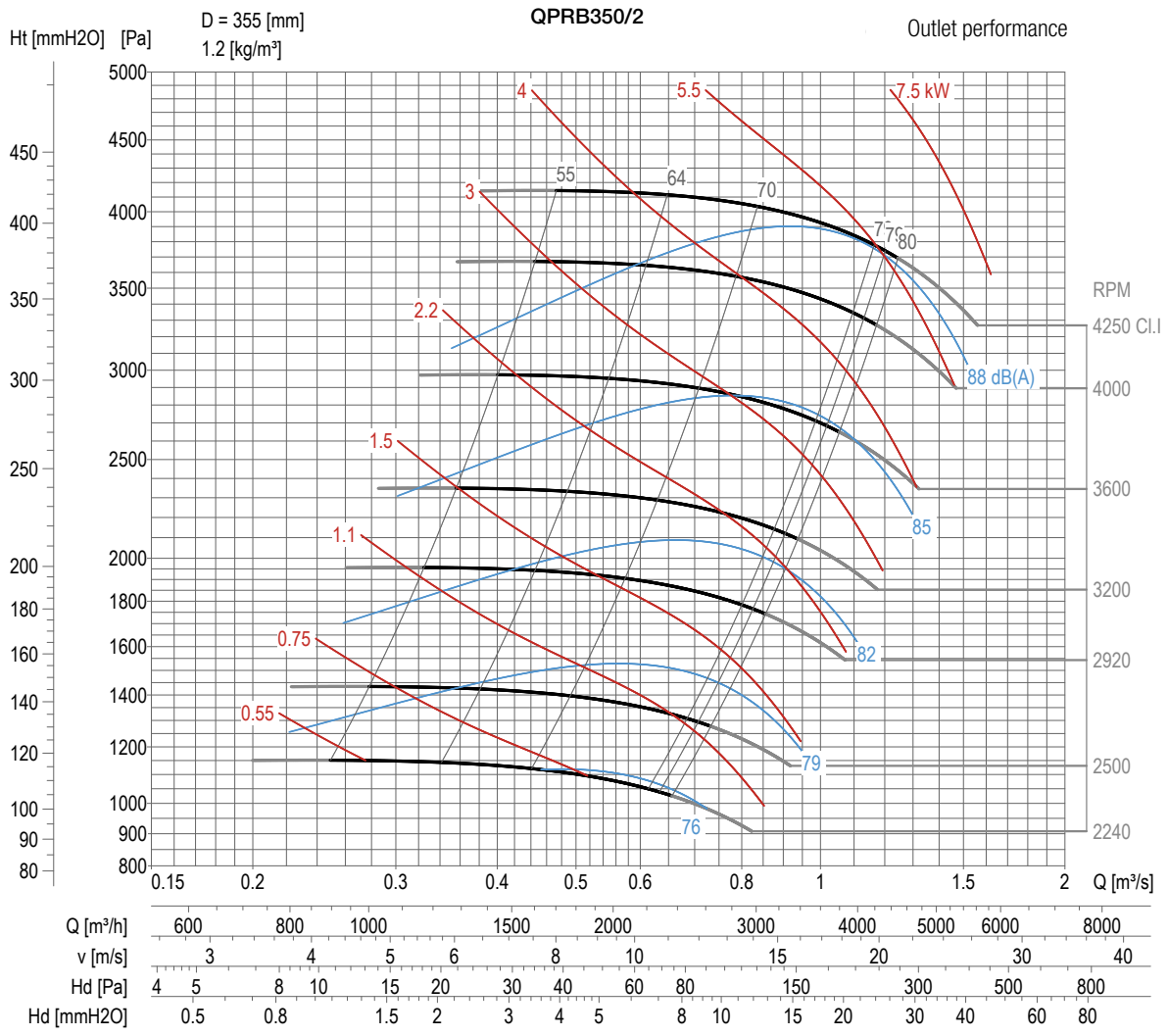


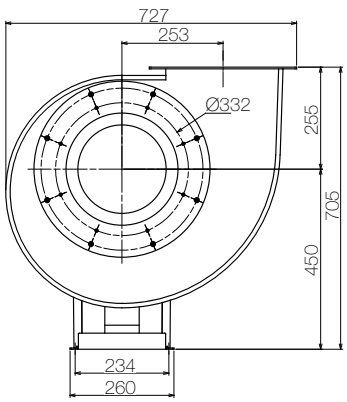


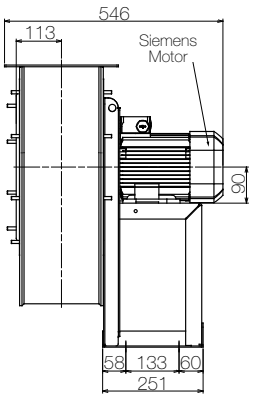


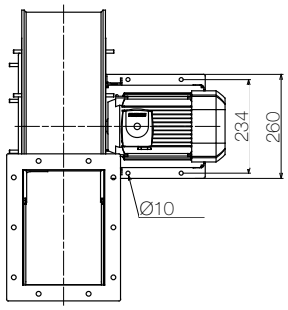
Performances

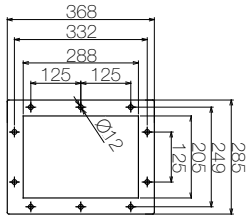
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB350/2 (esec.4)	-	2	90	2,20	-	-	-	-	-	2880	0,41	64

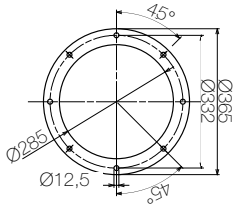








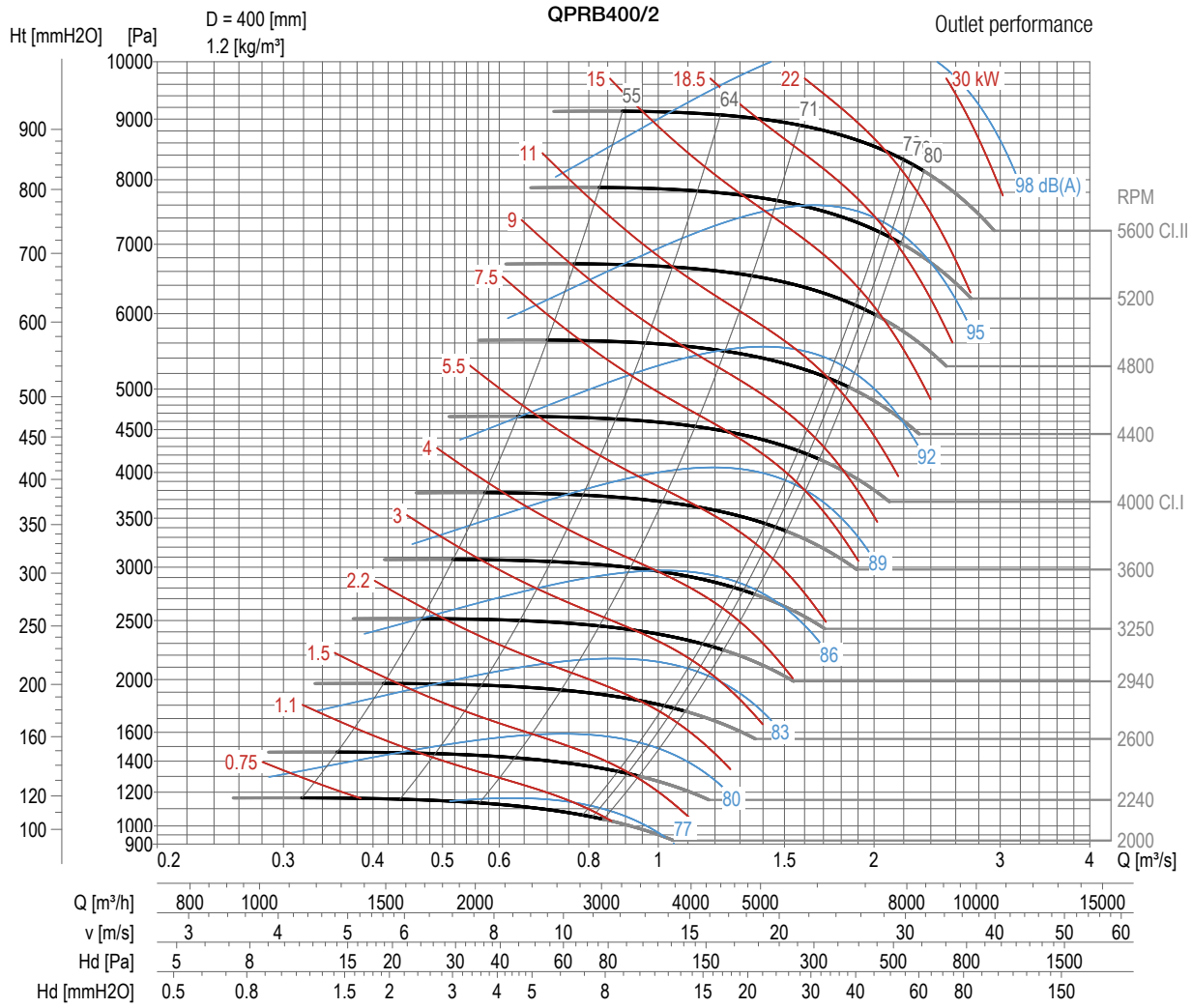


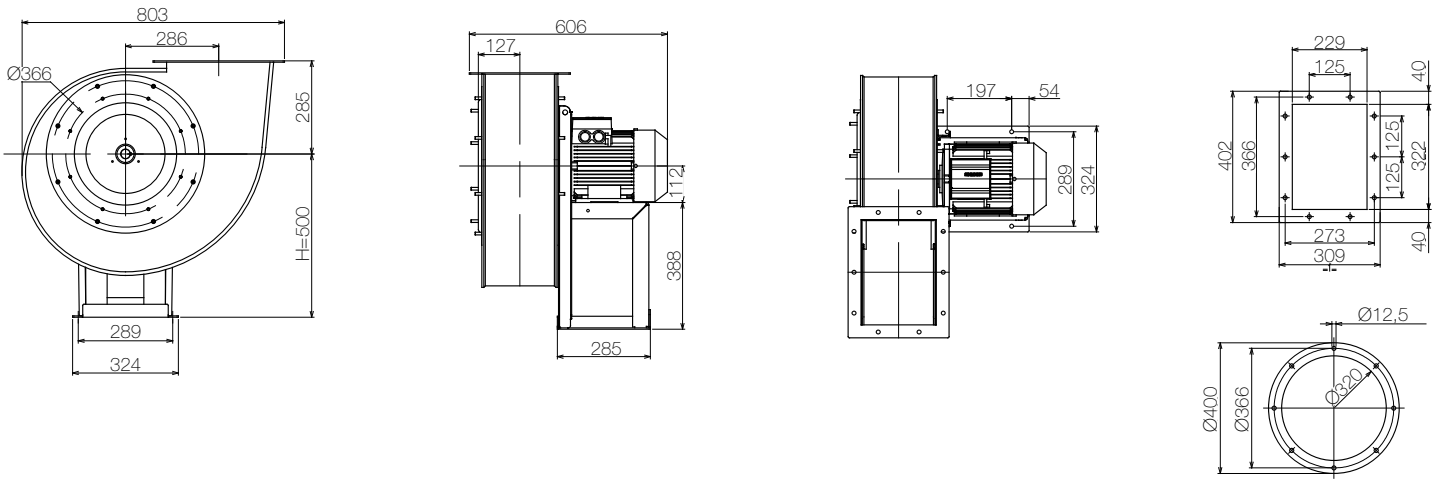


QPRB

Performances

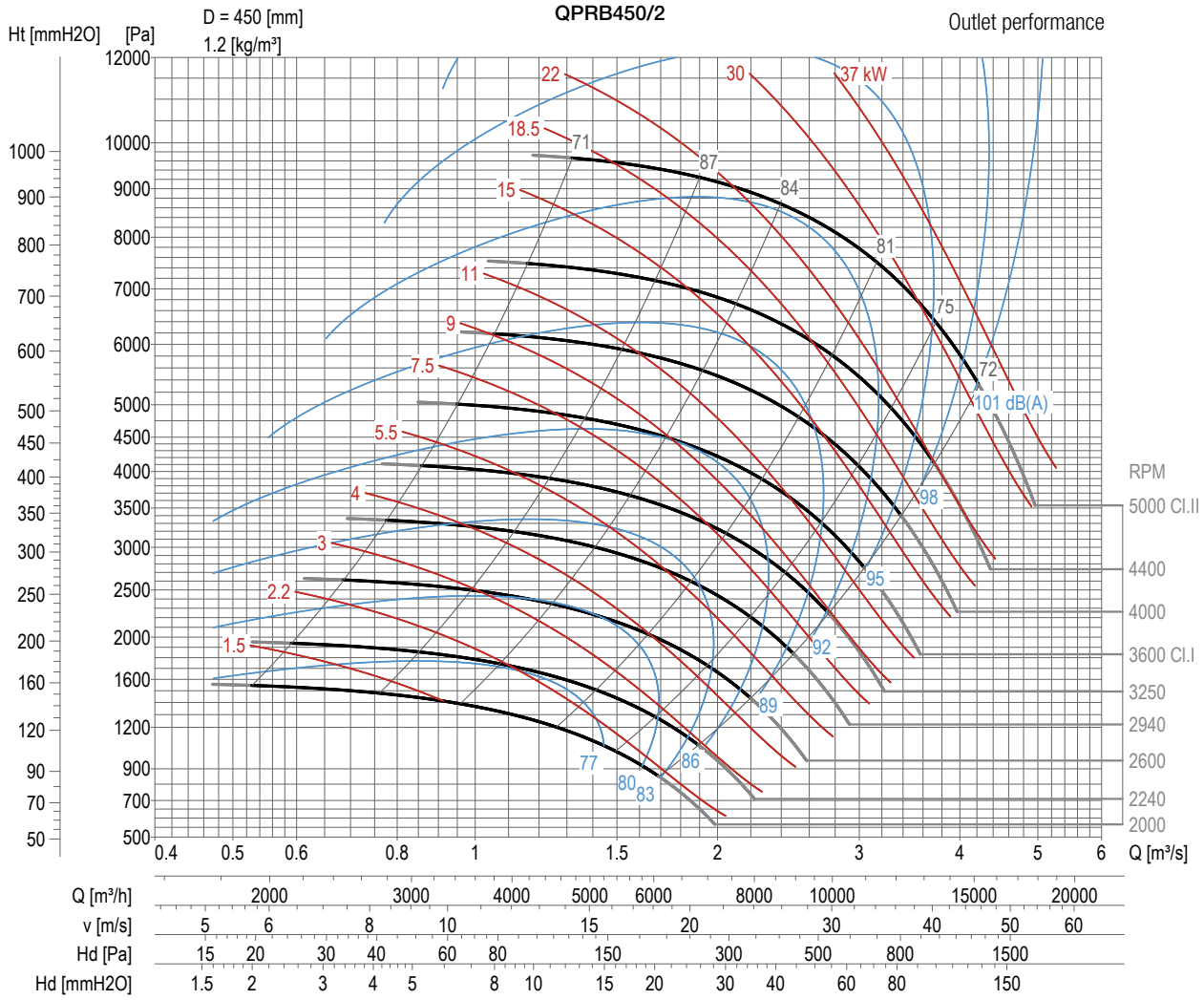
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB400/2 (esec.4)	-	2	112	4	-	-	-	-	-	4320	0,73	68

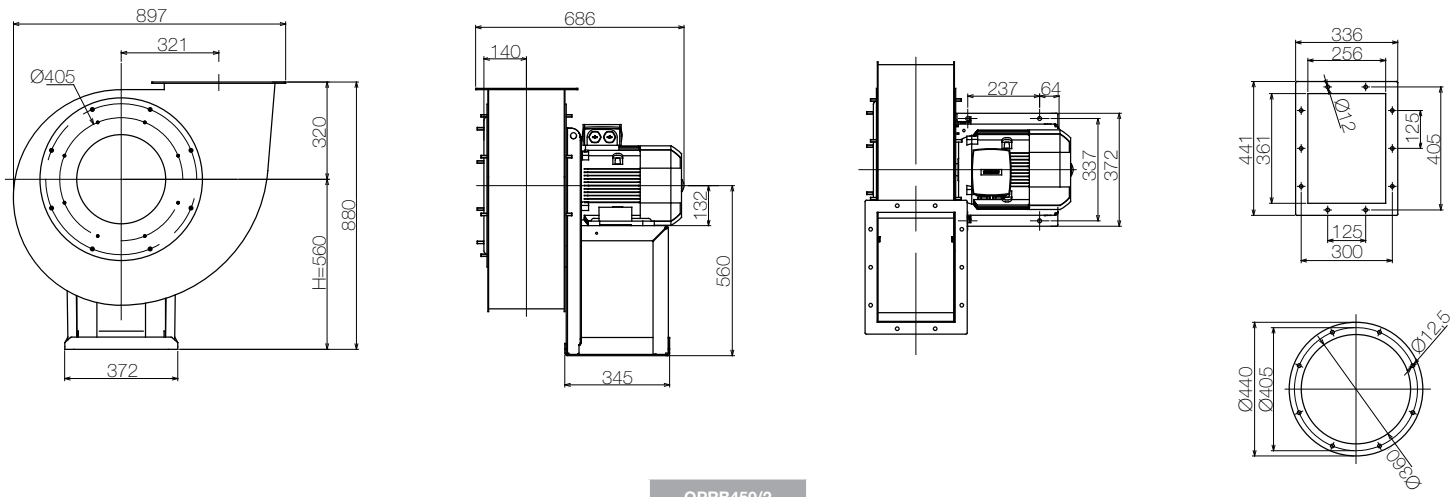




Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB450R/2 (esec.4)	-	2	132	5,5	-	-	-	-	-	7200	1,20	71
QPRB450/2 (esec.4)	-	2	132	7,5	-	-	-	-	-	7920	1,20	73



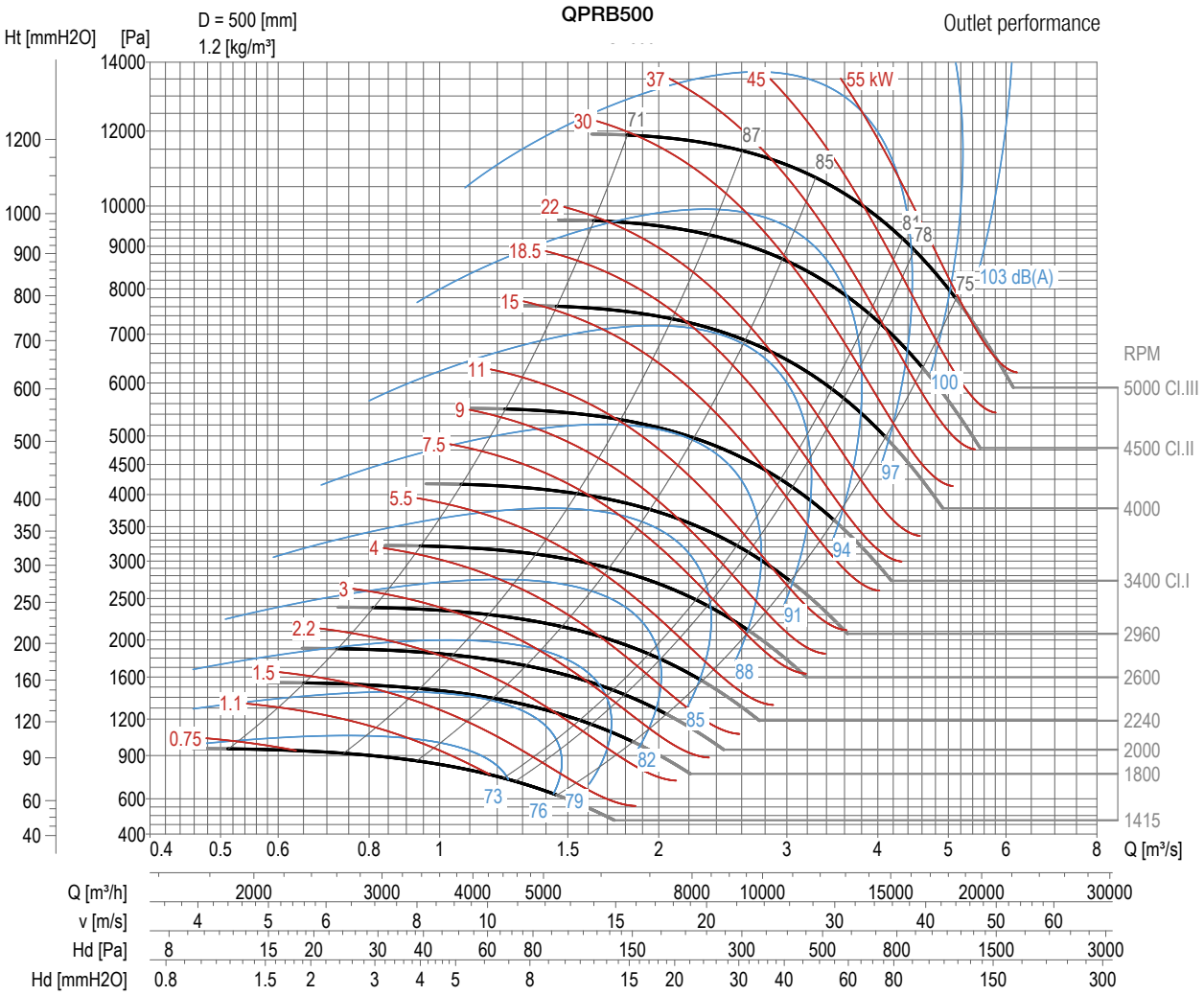


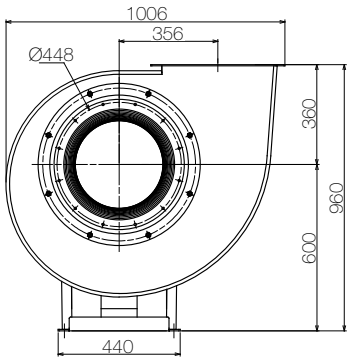
QPRB450/2

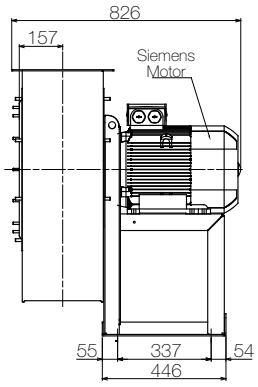
QPRB

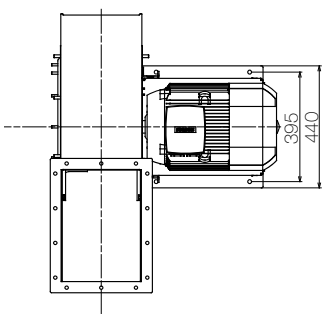
Performances

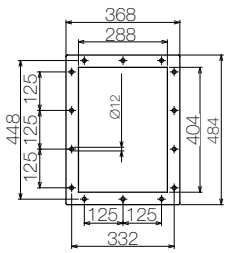
Description	Code	Poles	Motor size	P mec kW	I nom A	I start A	IP/Cl.	Efficiency %	FMEGN	Q max m³/h	PD² kgm²	Lp dB(A) @1,5m Breakout
QPRB500R/2 (esec.4)	-	2	132	7,5	-	-	-	-	-	7200	2,10	68
QPRB500/2 (esec.4)	-	2	160	11	-	-	-	-	-	10080	2,20	74
QPRB500/4 (esec.4)	-	4	90	1,1	-	-	-	-	-	3600	2,30	56

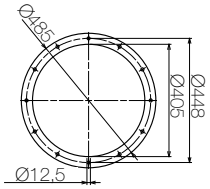








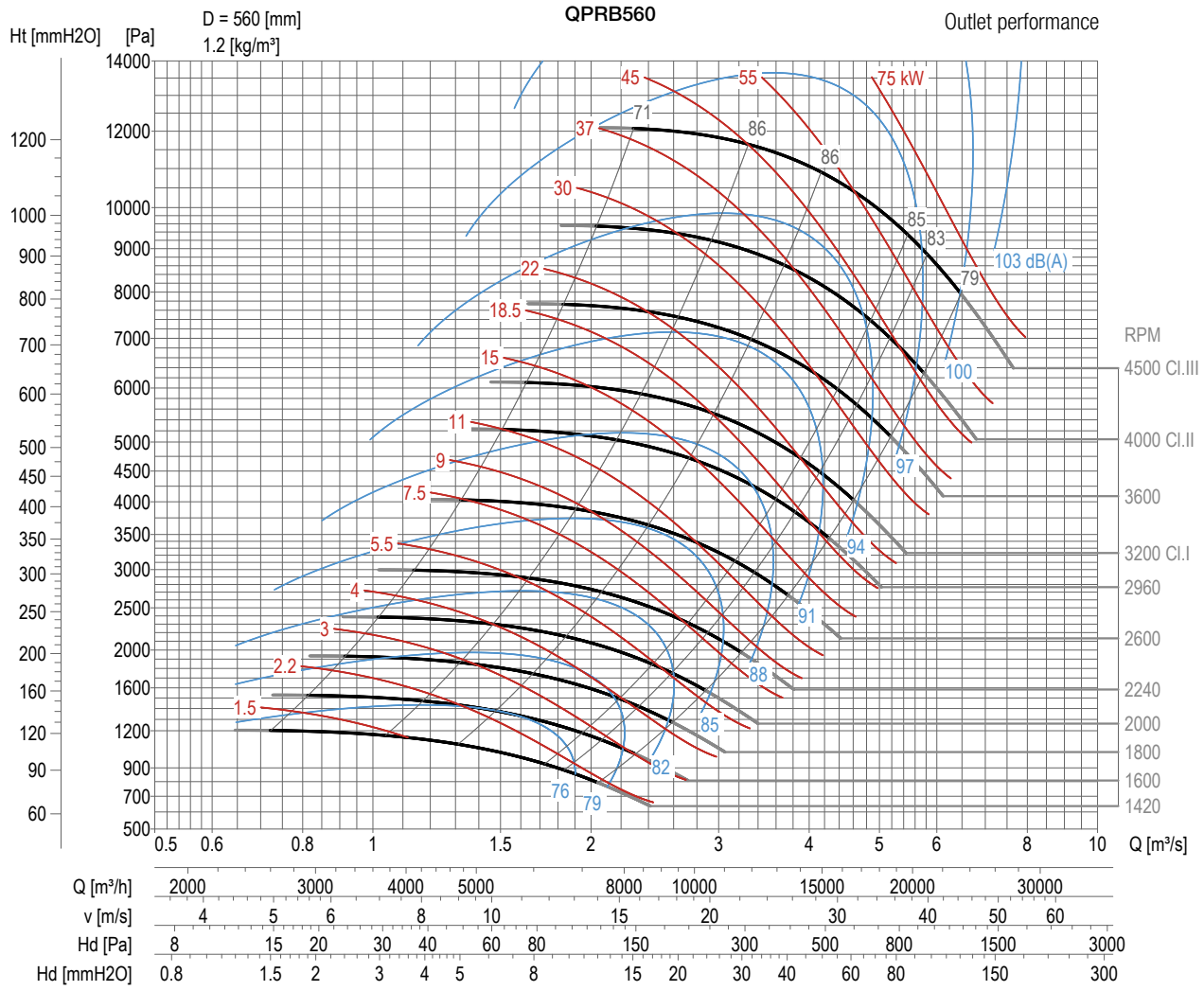


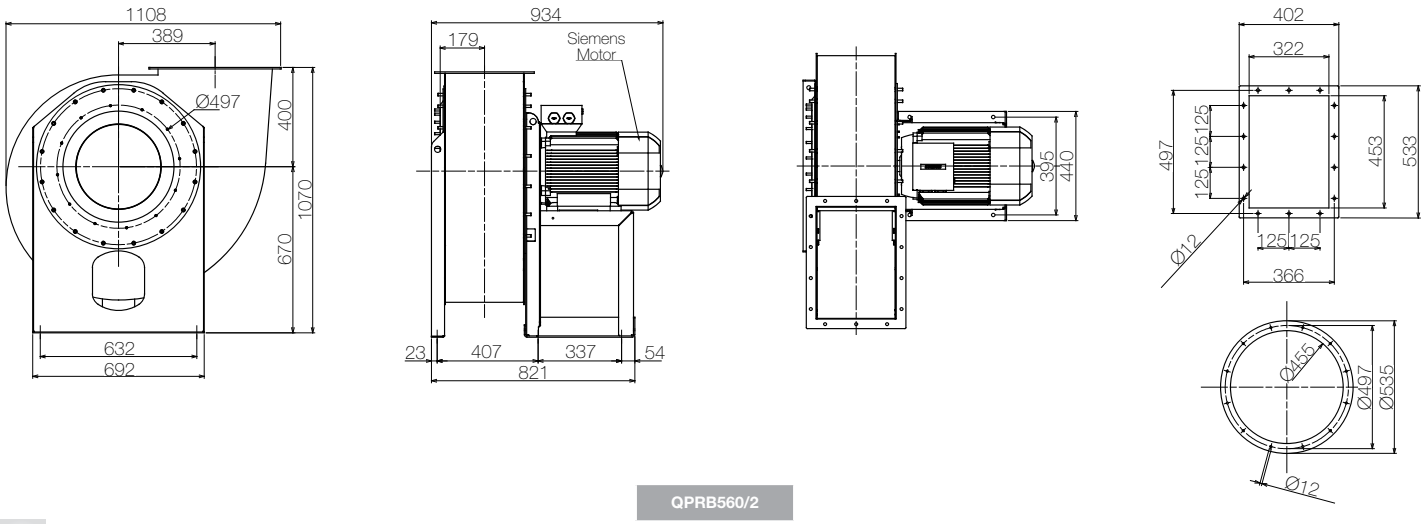


QPRB500/2

Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEGN	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB560R/2 (esec.4)	-	2	160	15	-	-	-	-	-	12600	3,40	74
QPRB560/2 (esec.4)	-	2	160	15	-	-	-	-	-	10080	3,80	70
QPRB560/4 (esec.4)	-	4	100	2,2	-	-	-	-	-	6120	3,20	60



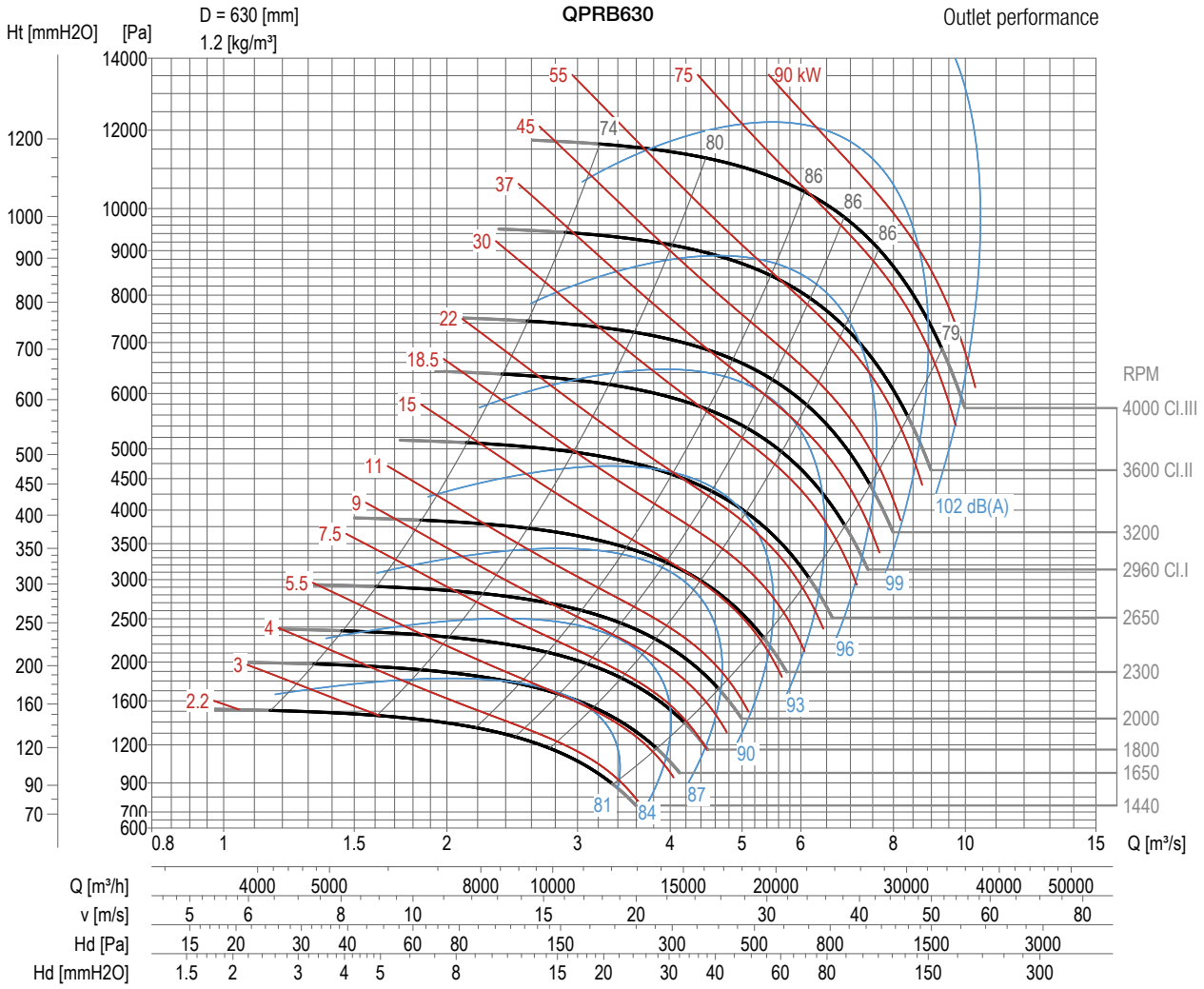


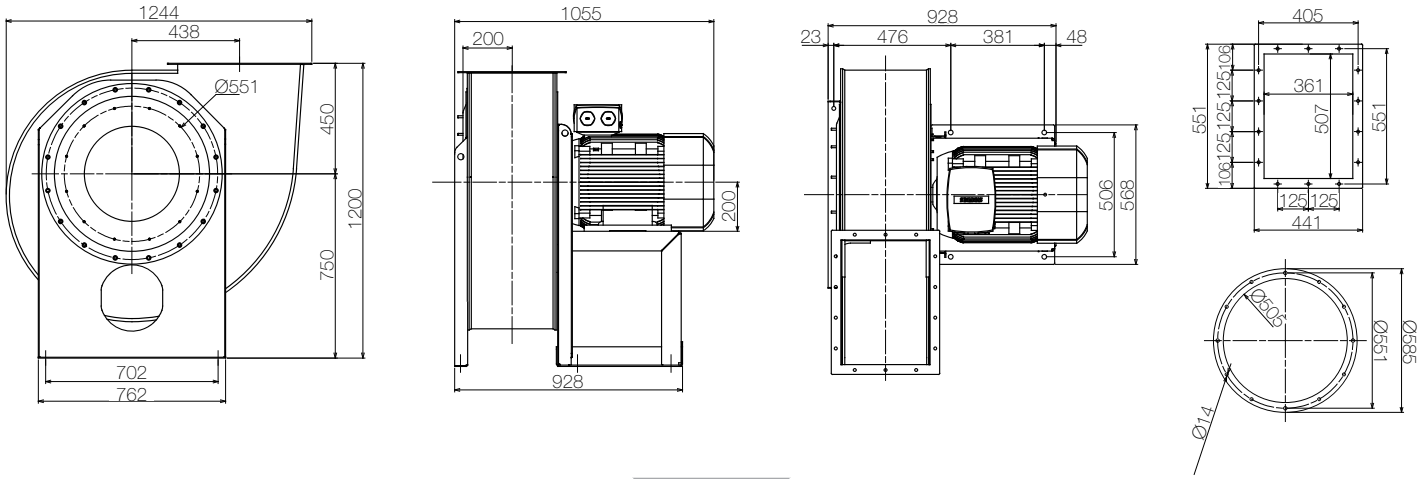
QPRB560/2

QPRB

Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB630R/2 (esec.4)	-	2	180	22	-	-	-	-	-	10800	5,5	74
QPRB630/2 (esec.4)	-	2	200	30	-	-	-	-	-	14400	7,10	74
QPRB630/4 (esec.4)	-	4	112	4	-	-	-	-	-	10800	6,60	63

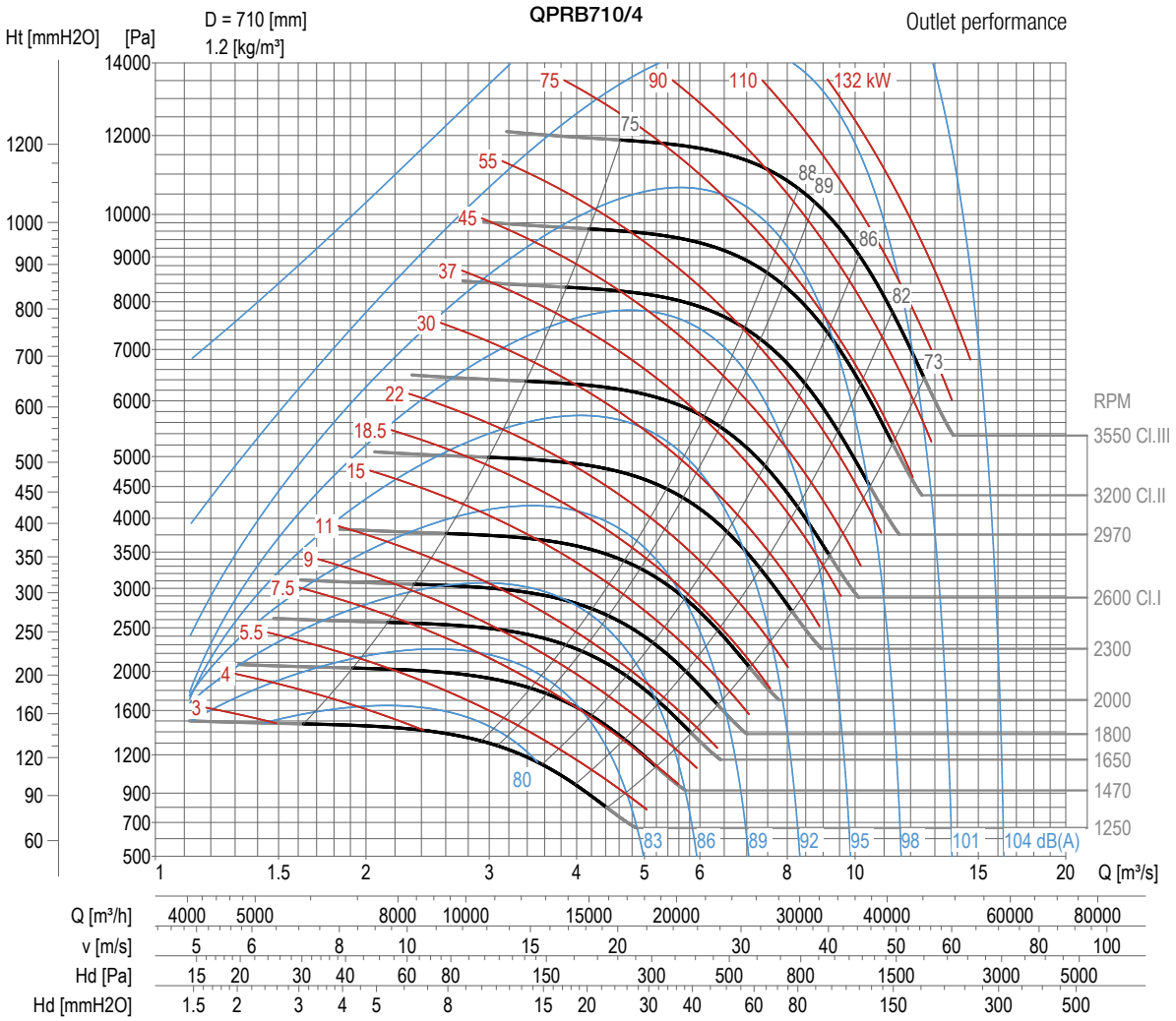


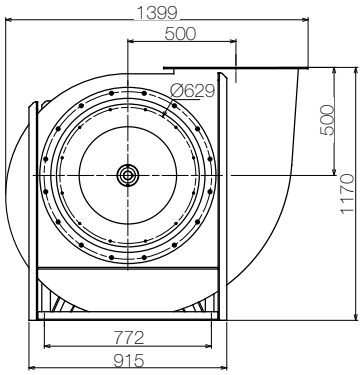


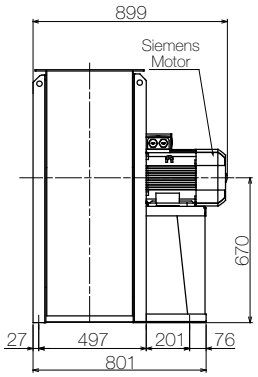
QPRB630/2

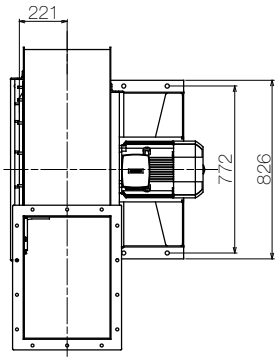
Performances

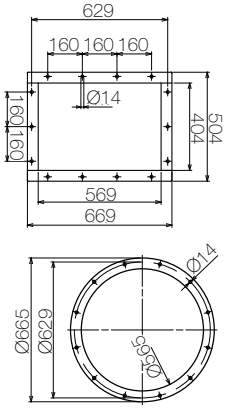
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB710R/4 (esec.4)	-	4	132	5,5	-	-	-	-	-	10080	10	66
QPRB710/4 (esec.4)	-	4	132	7,5	-	-	-	-	-	14400	11	68









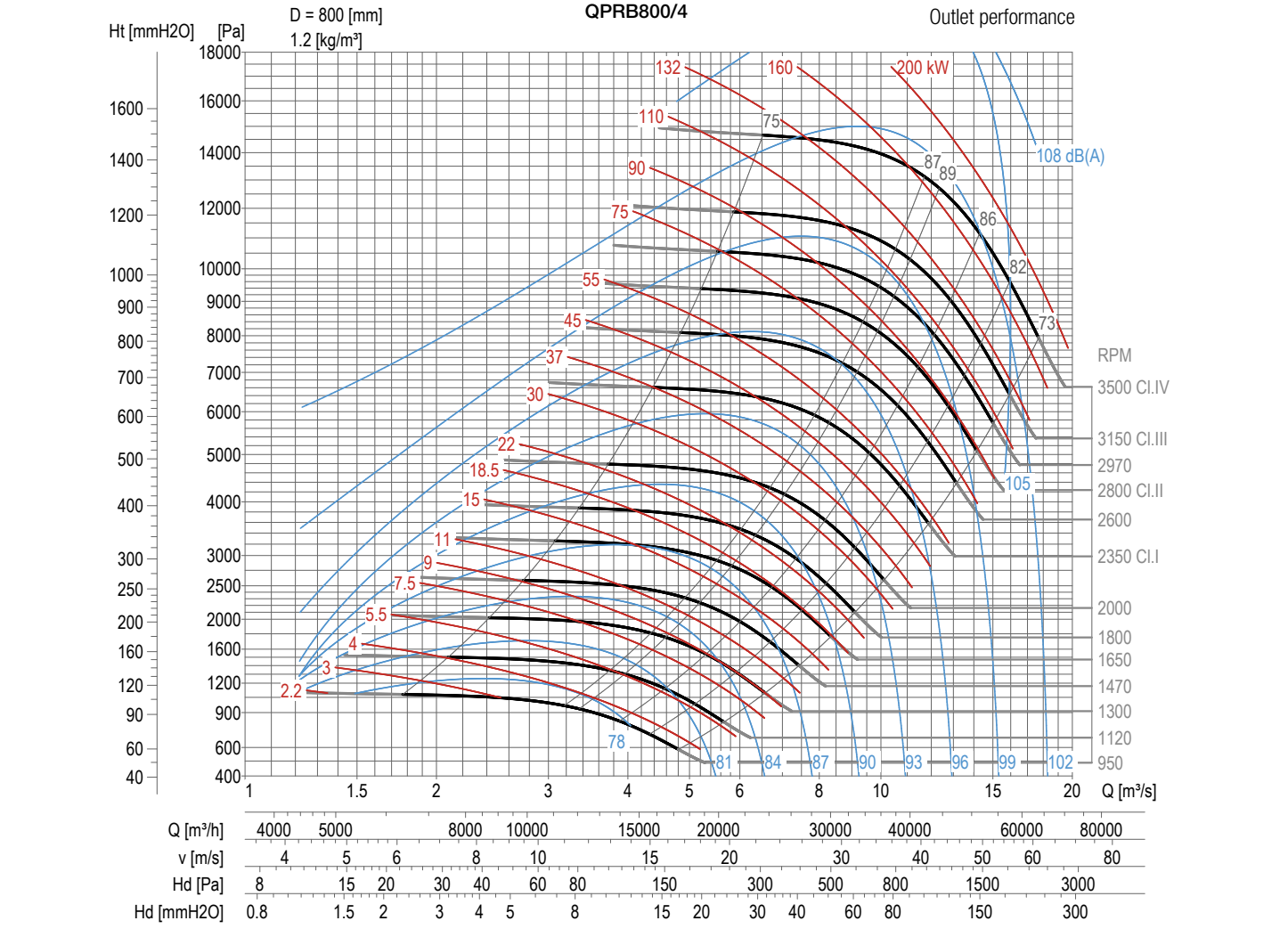


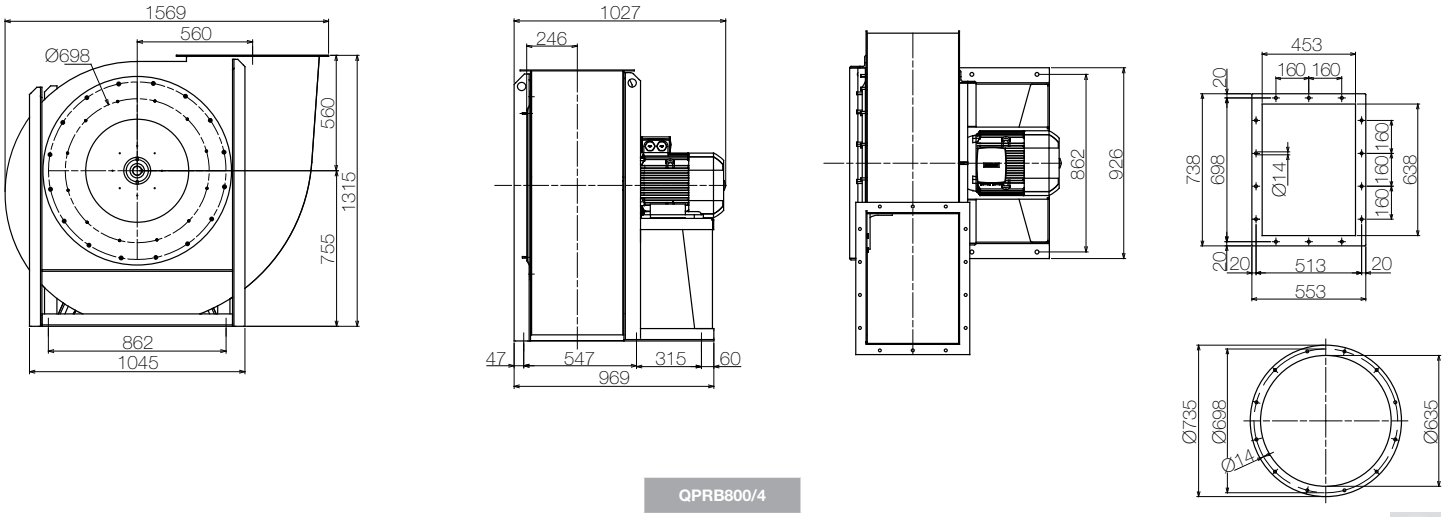
QPRB710/4

QPRB

Performances

Description	Code	Poles	Motor size	P mec kW	I nom A	I start A	IP/Cl.	Efficiency %	FMEG N	Q max m³/h	PD² kgm²	Lp dB(A) @1,5m Breakout
QPRB800R/4 (esec.4)	-	4	160	11	-	-	-	-	-	16200	18	69
QPRB800/4 (esec.4)	-	4	160	15	-	-	-	-	-	25200	20	71





QPRB800/4

Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRB900R/4 (esec.4)	-	4	180	18,5	-	-	-	-	-	18000	34	73
QPRB900R/4 (esec.4)	-	4	180	22	-	-	-	-	-	25200	34	73
QPRB900/4 (esec.4)	-	4	200	30	-	-	-	-	-	32400	37	74