



INDUSTRIAL CENTRIFUGAL FANS WITH MEDIUM PRESSURE

APPLICATION

Industrial medium pressure centrifugal fans with backward curved impeller, suitable for exhausting clean or slightly dusty air of ventilation, filtration, airconditioning and heating, in civil or industrial plants.

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 250÷630.
 - fixed orientation for sizes 710÷2000.
- Inspection panel supplied as standard from 900 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 $Q = 1.000 \div 270.000 \text{ m}^3/\text{h}$.
 - Total pressure $P_{\text{tot}} = 200 \div 4.500 \text{ Pa}$.
- 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).

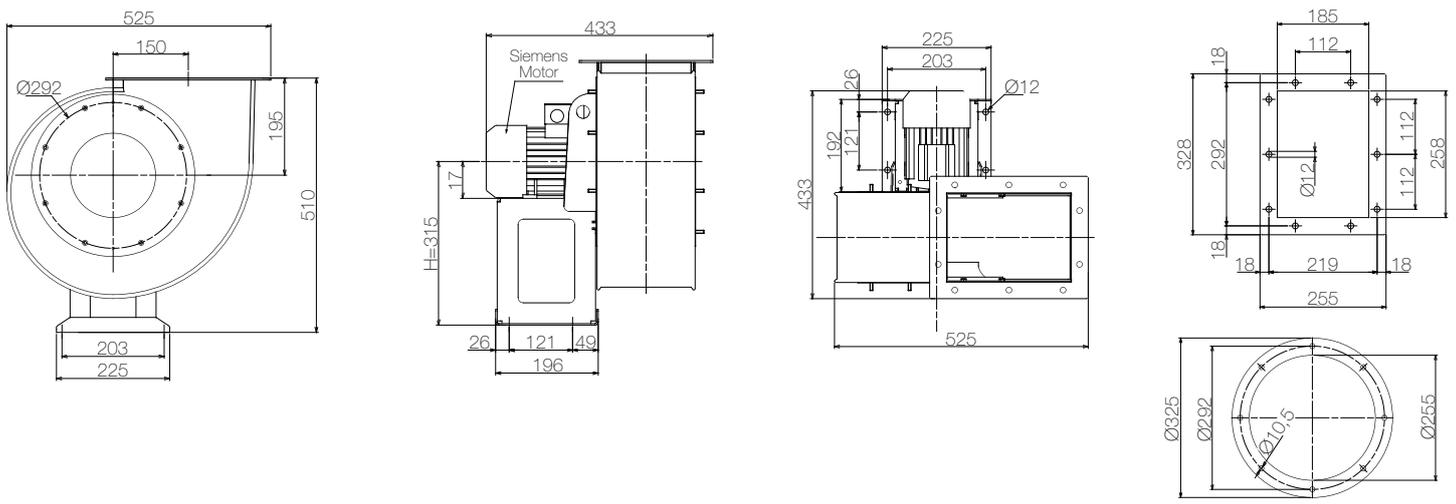
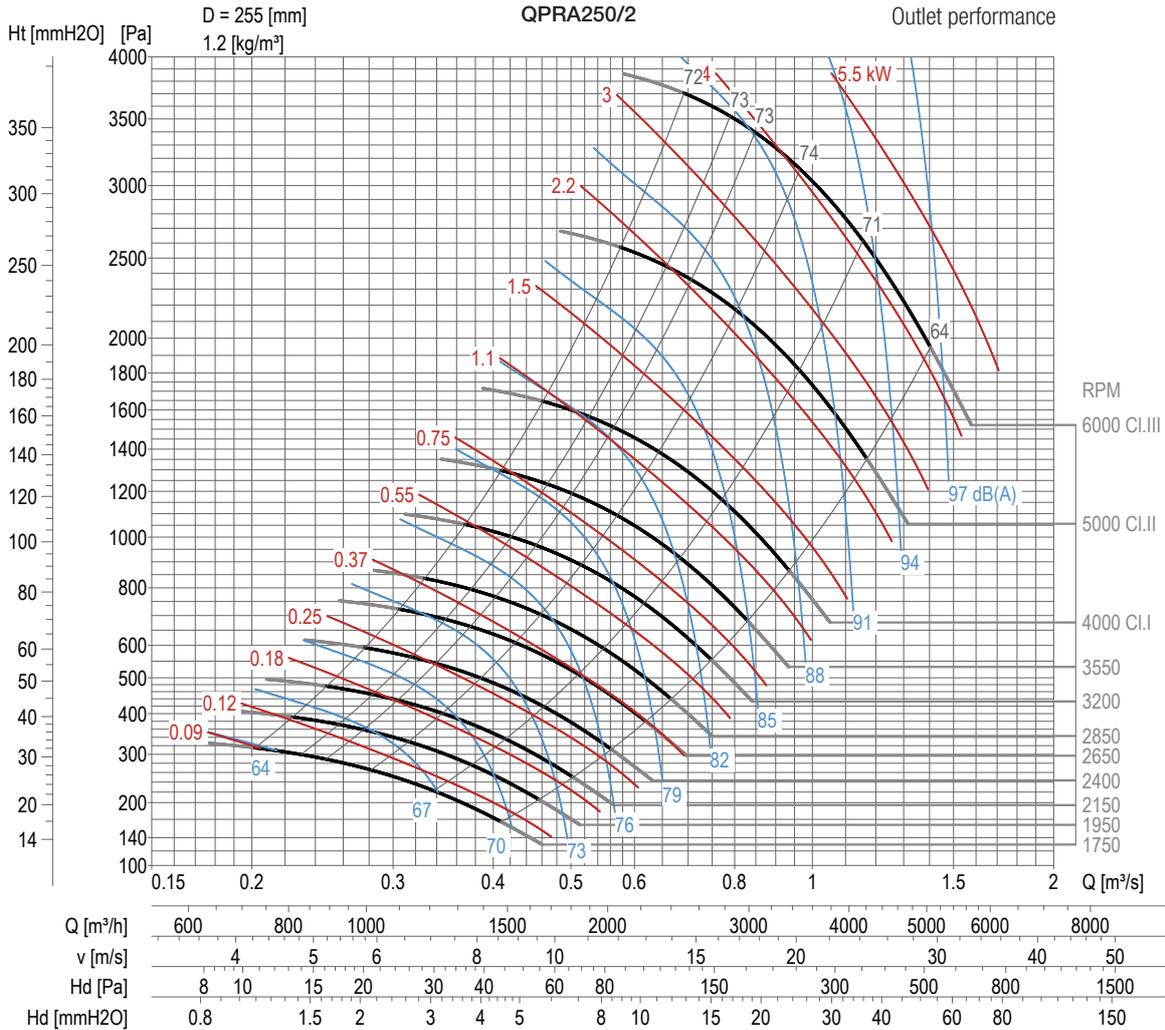
ACCESSORIES (on request)

- Inspection panel for sizes up to 800 (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**

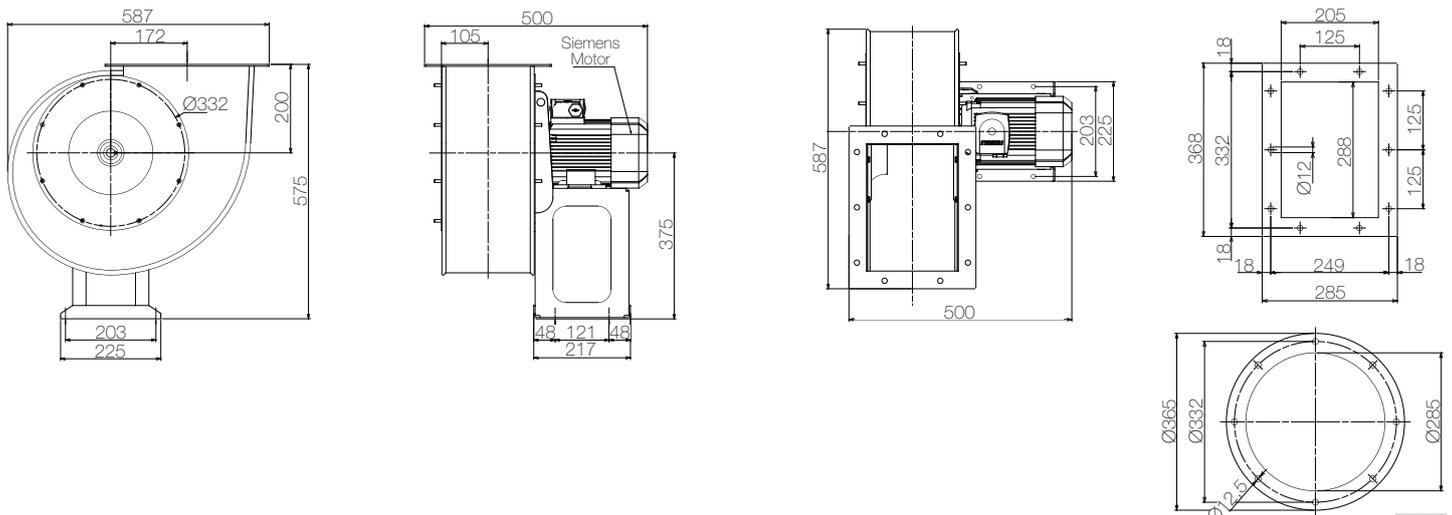
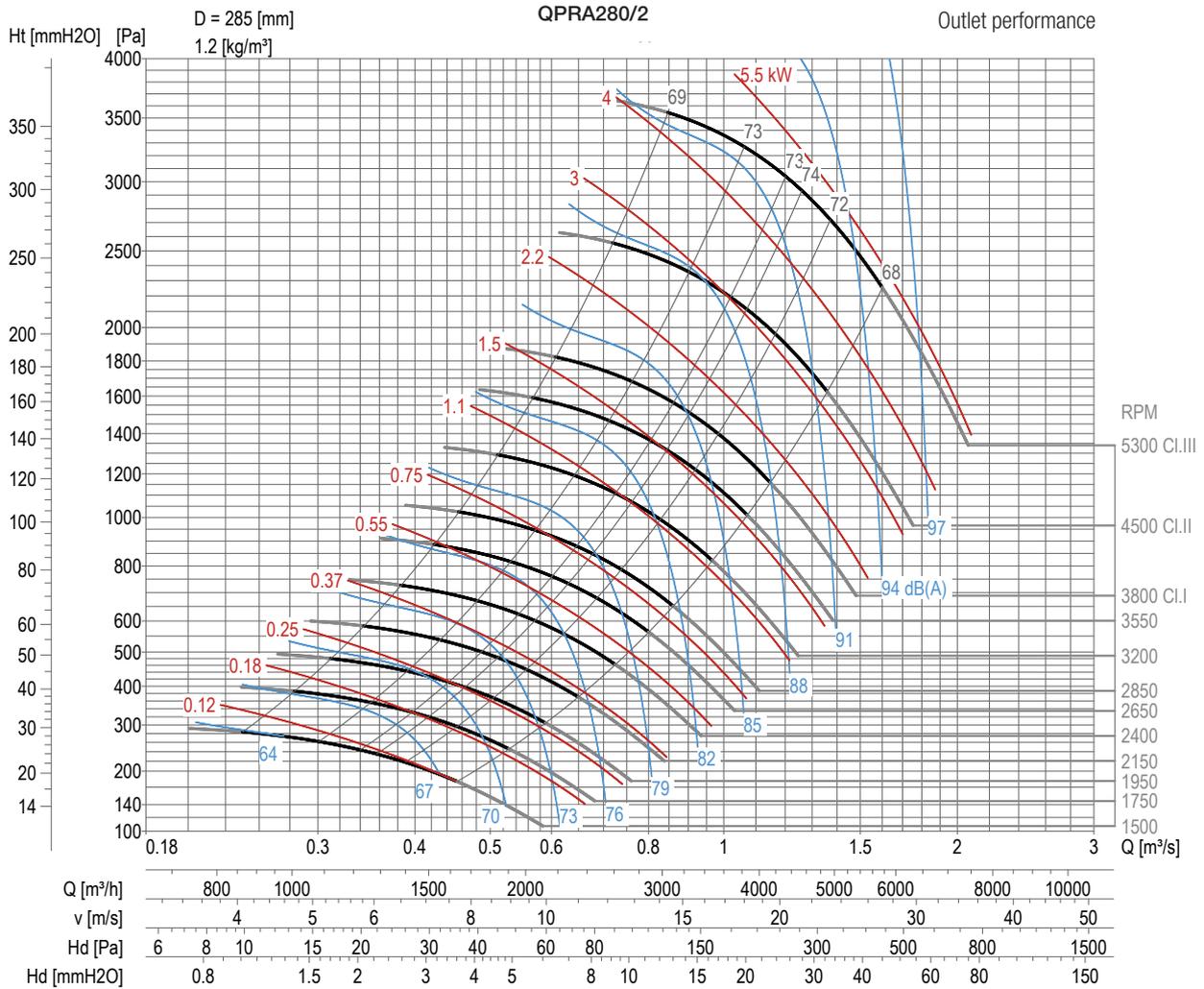
Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Ci.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA250/2 (esec.4)	-	2	71	0,55	-	-	-	-	-	2520	0,11	63



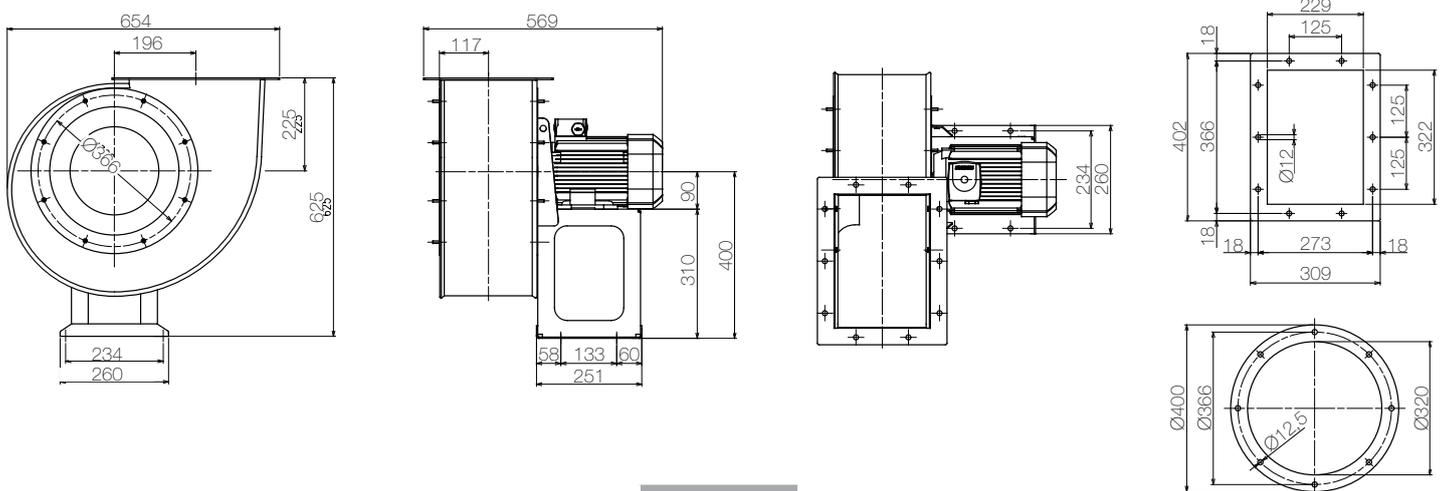
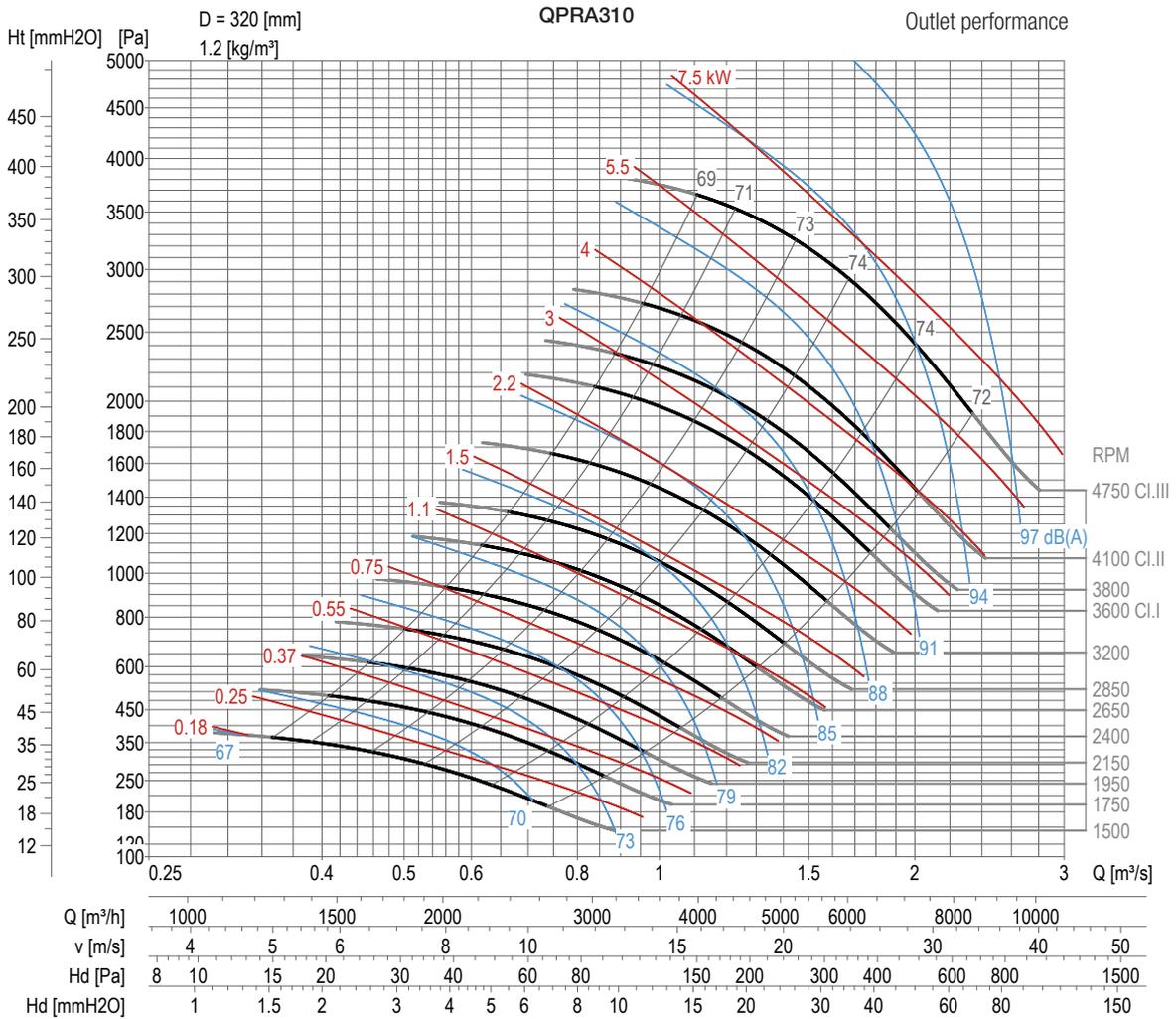
Performances

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
QPRA280/2 (esec.4)	-	2	80	1,10	-	-	-	-	-	3600	0,20	66



Performances

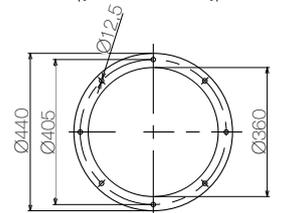
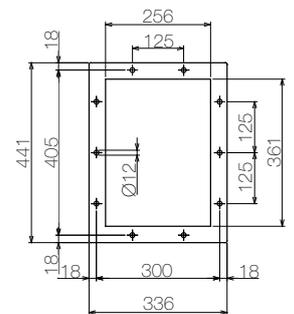
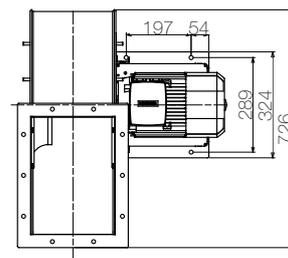
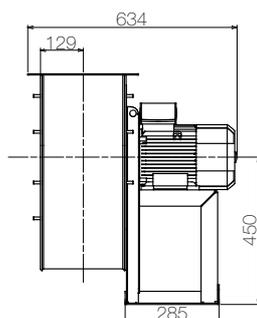
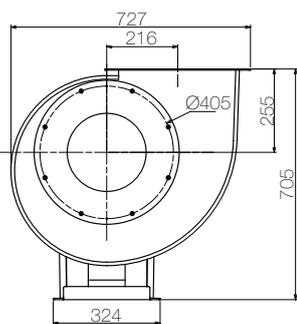
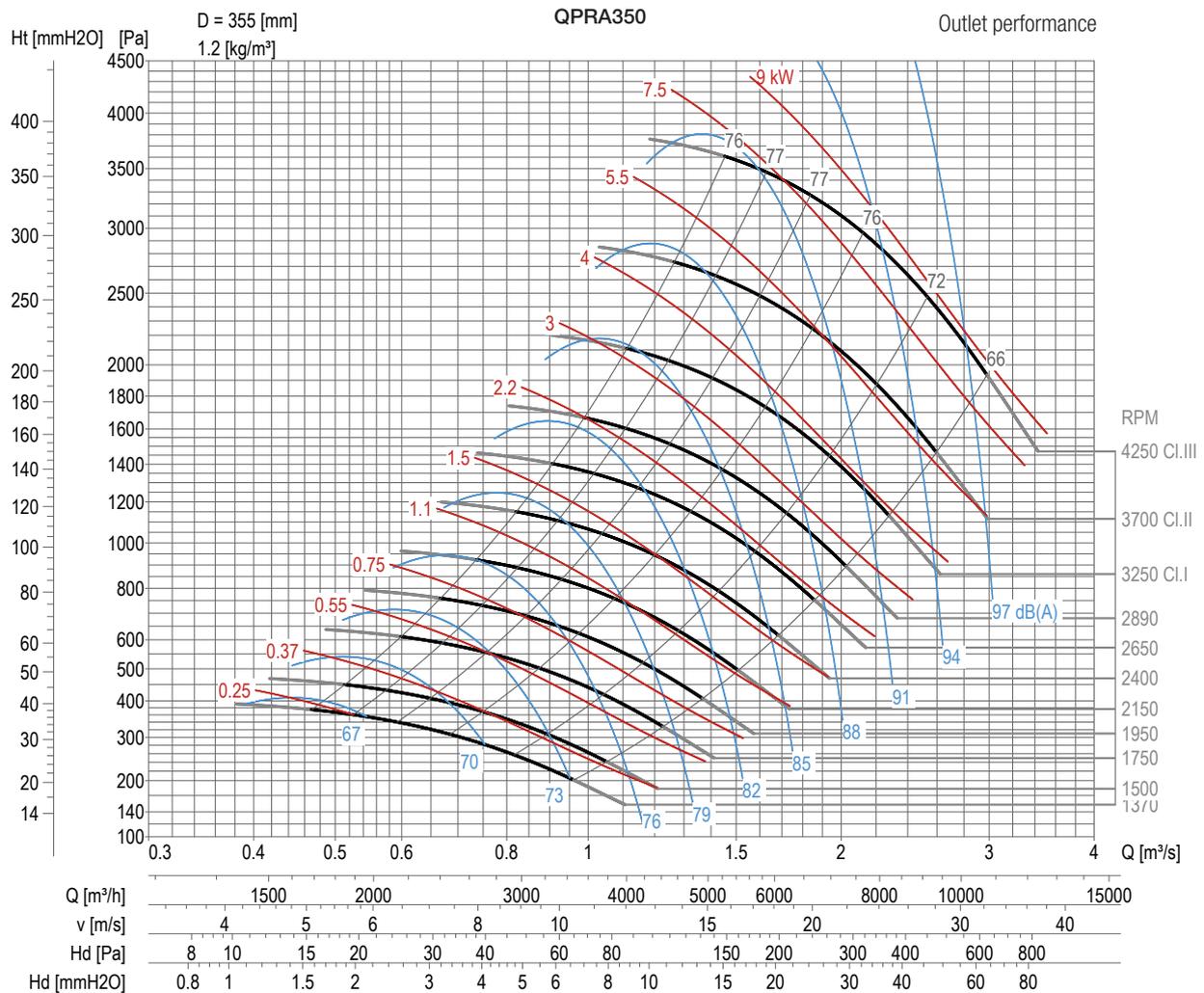
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA310/2 (esec.4)	-	2	90	2,20	-	-	-	-	-	5400	0,33	67
QPRA310/4 (esec.4)	-	4	63	0,18	-	-	-	-	-	2520	0,33	52



QPRA310/2

Performances

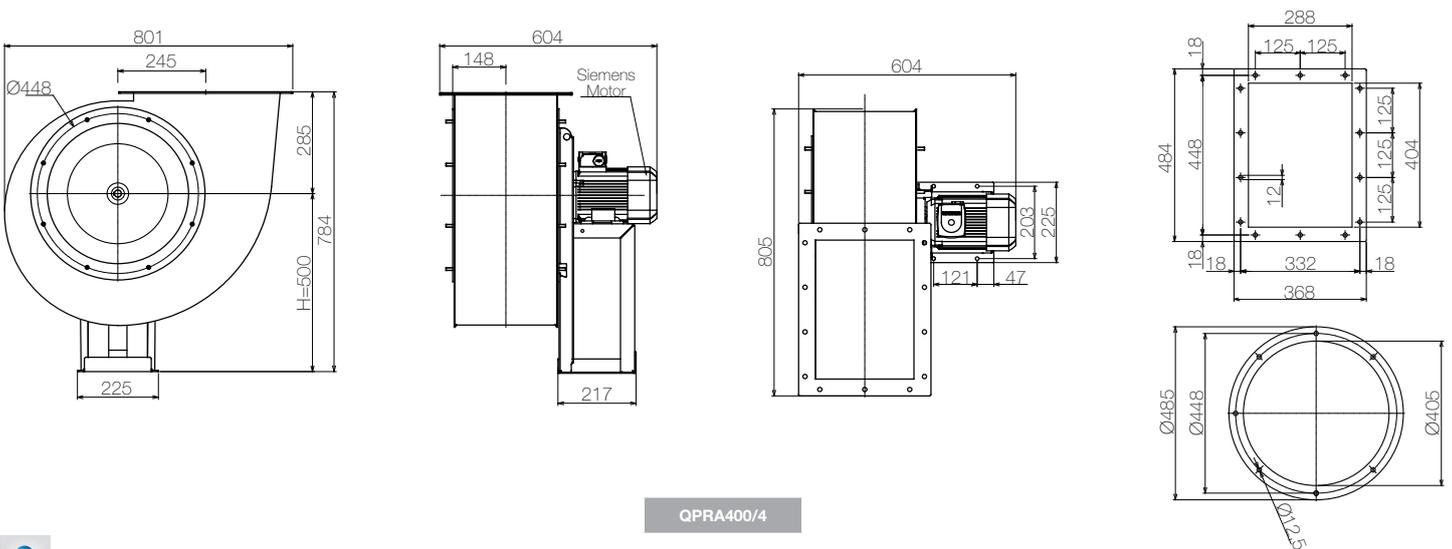
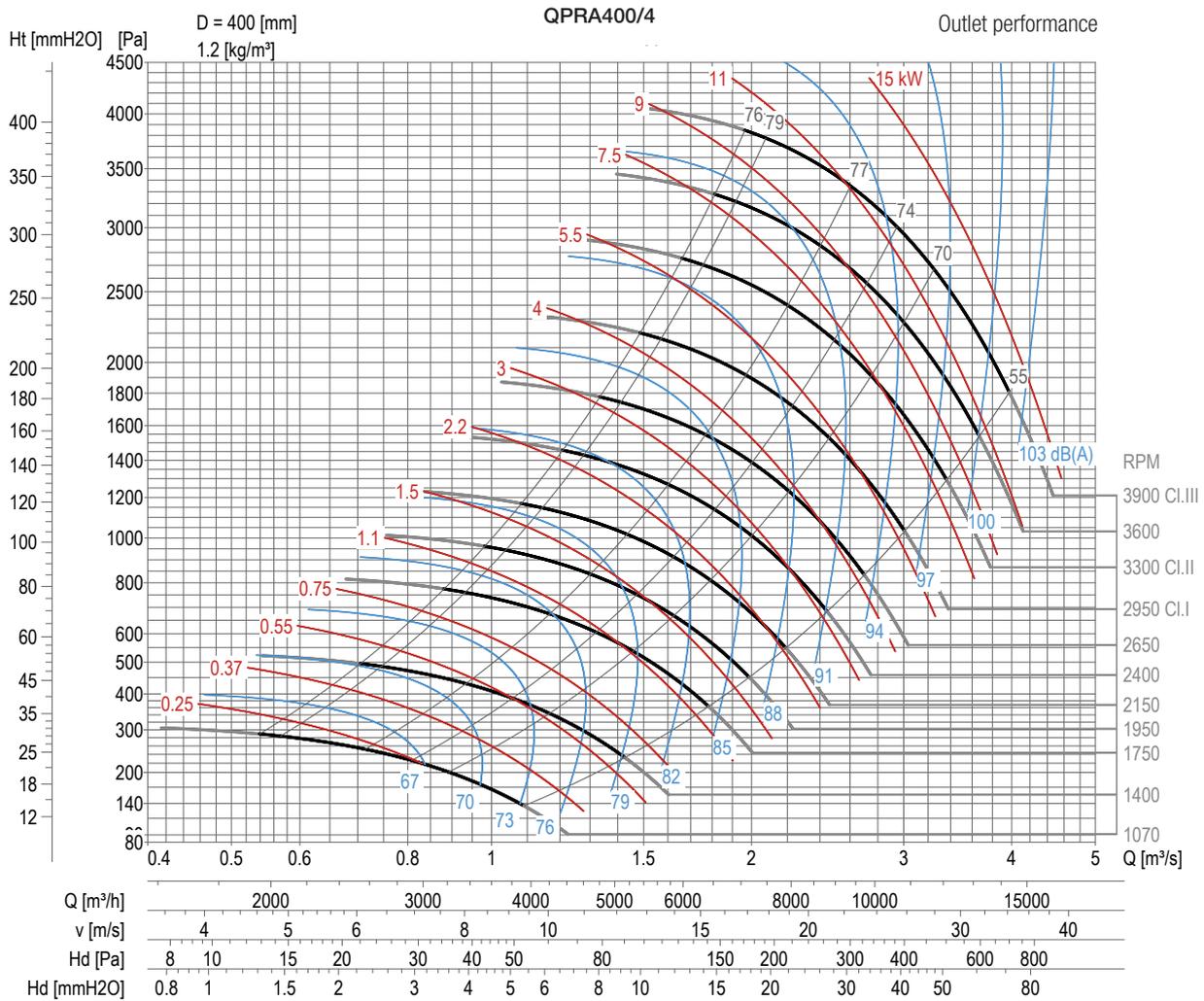
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA350/2 (esec.4)	-	2	100	3	-	-	-	-	-	7200	0,55	72
QPRA350/4 (esec.4)	-	4	71	0,37	-	-	-	-	-	3600	0,55	57



QPRA350/2

Performances

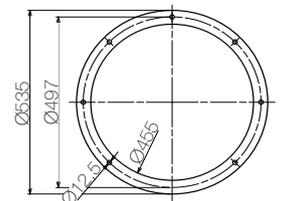
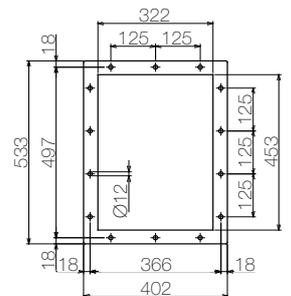
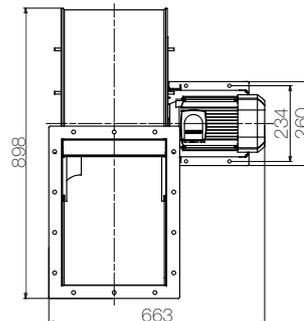
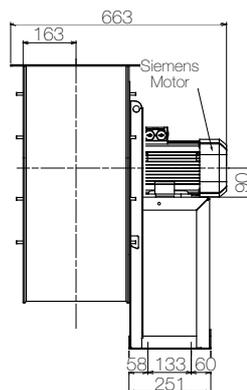
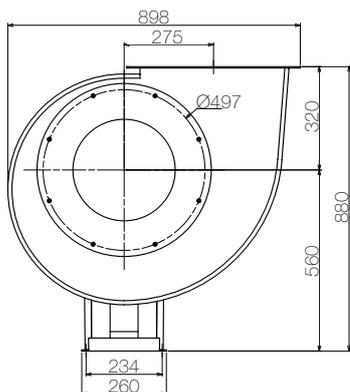
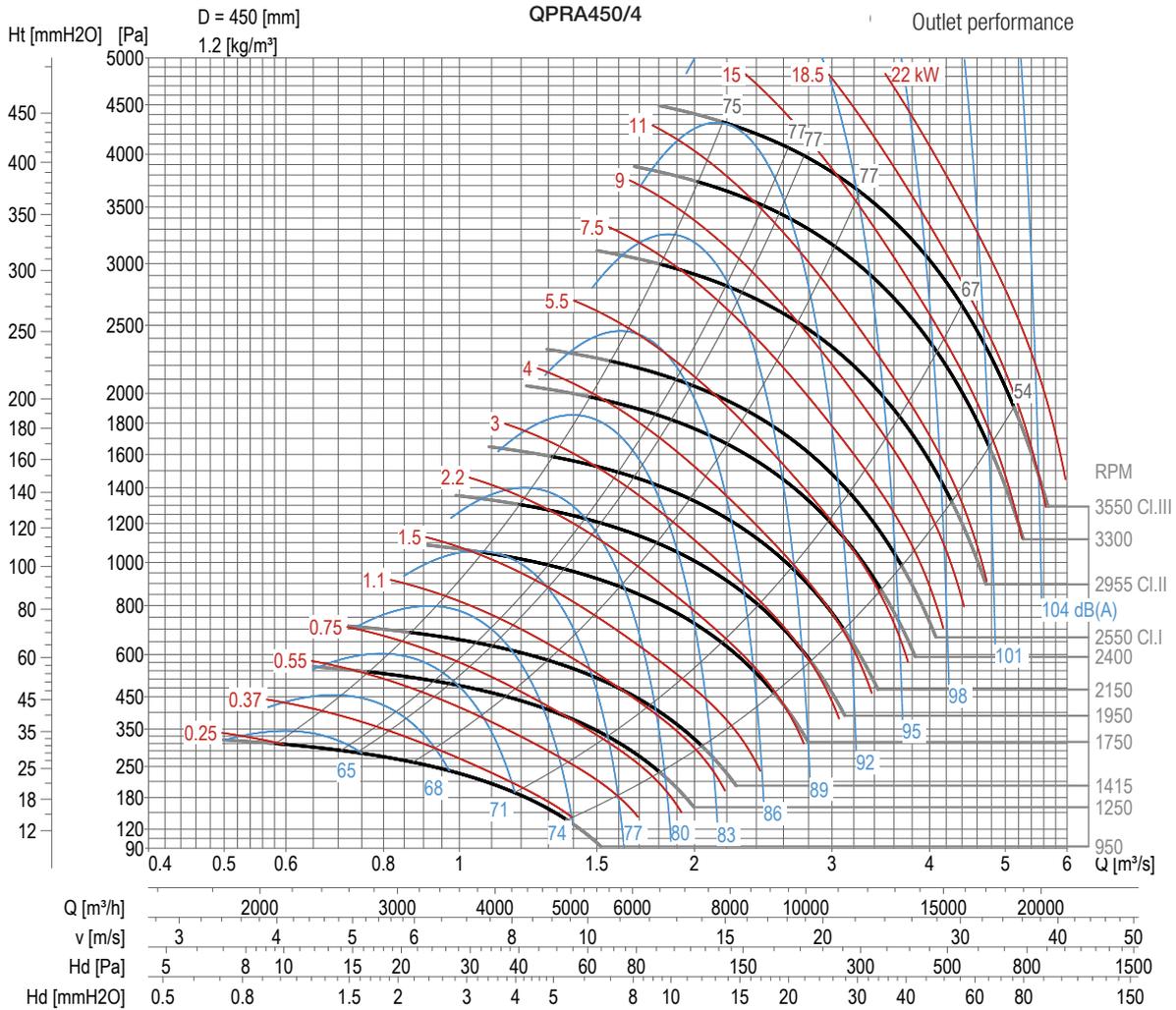
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA400R/4 (esec.4)	-	4	80	0,55	-	-	-	-	-	3960	1	59
QPRA400/4 (esec.4)	-	4	80	0,75	-	-	-	-	-	4320	1	60



QPRA400/4

Performances

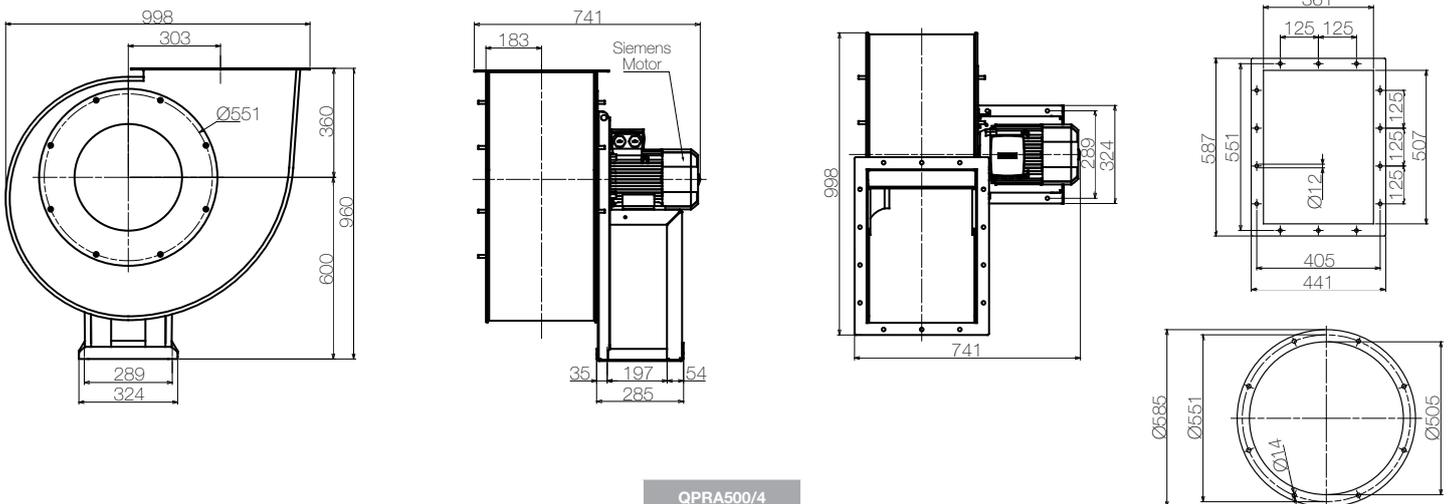
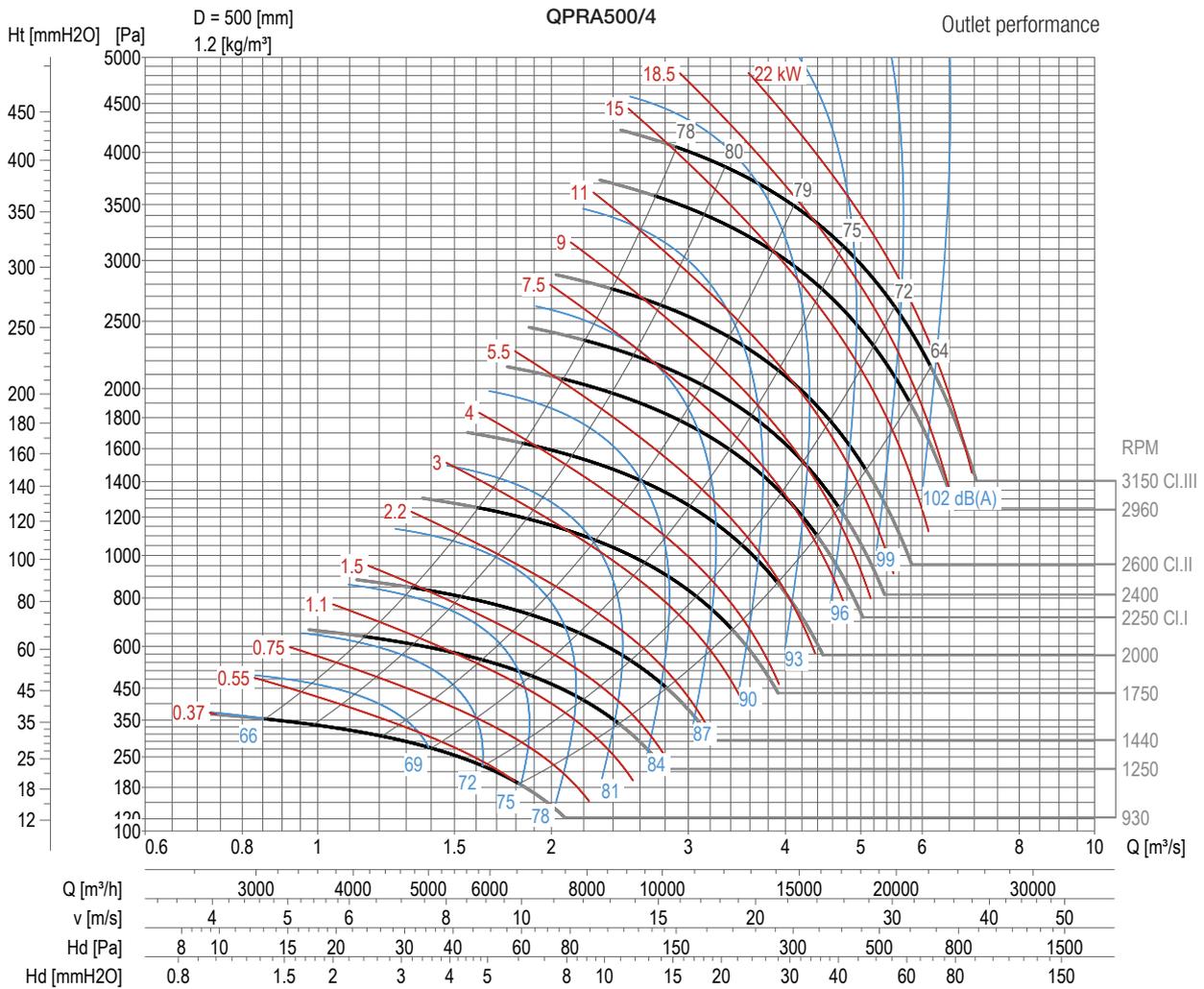
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA450R/4 (esec.4)	-	4	80	0,75	-	-	-	-	-	4680	1	59
QPRA450/4 (esec.4)	-	4	90	1,1	-	-	-	-	-	5400	1,8	60



QPRA450/4

Performances

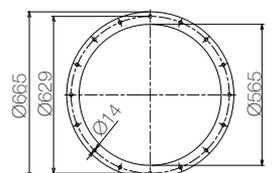
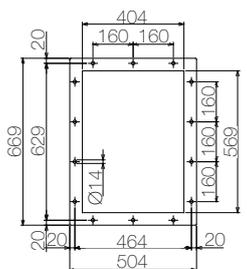
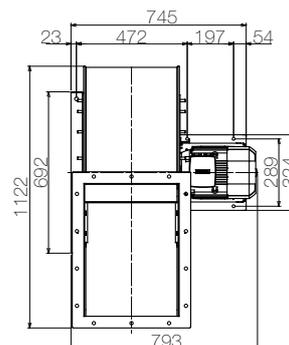
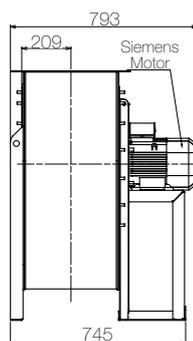
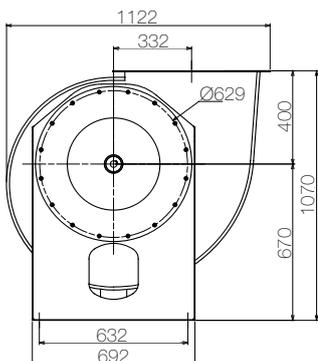
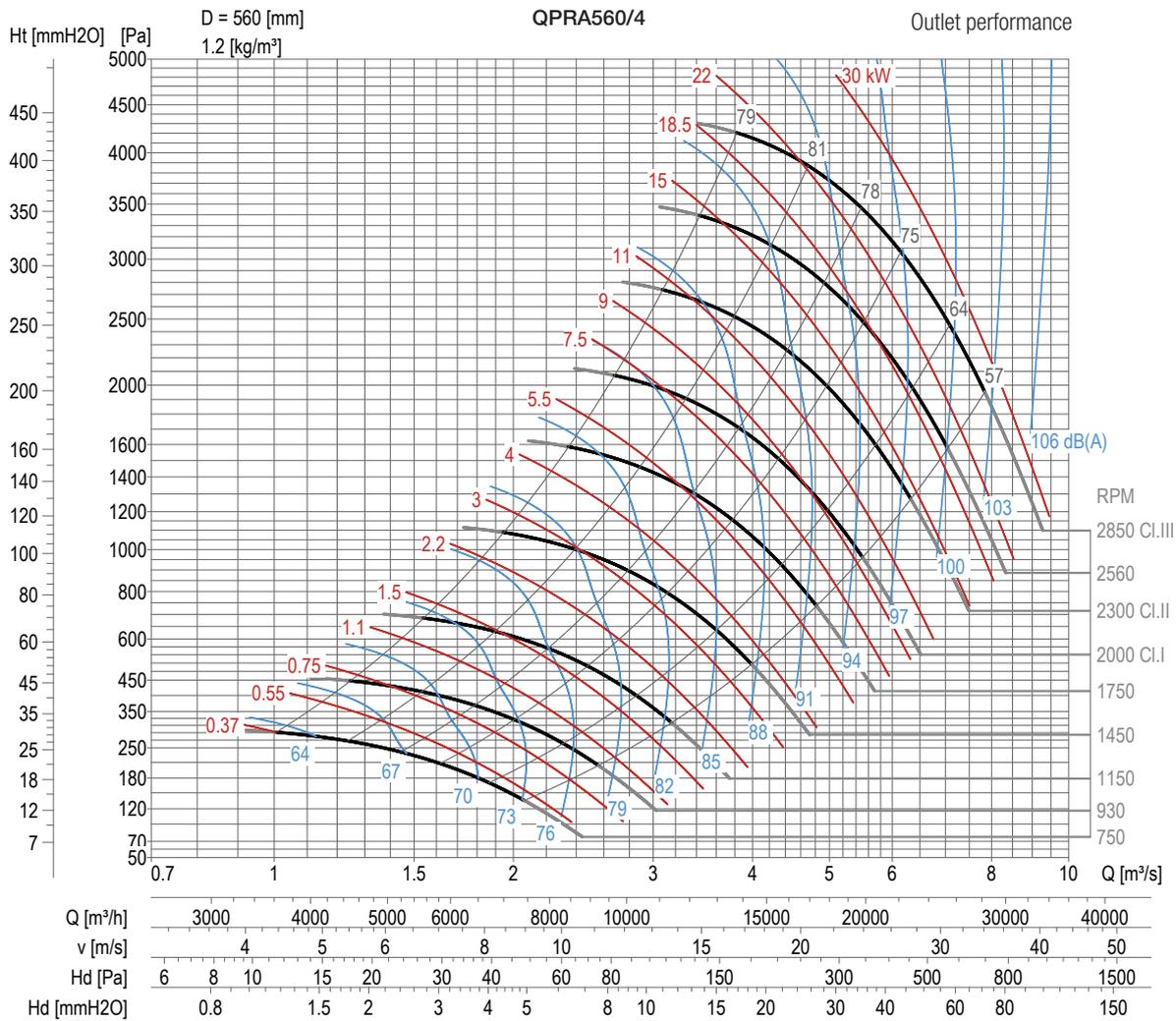
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA500R/4 (esec.4)	-	4	90	1,5	-	-	-	-	-	9000	2,3	67
QPRA500/4 (esec.4)	-	4	100	2,2	-	-	-	-	-	10800	2,6	69



QPRA500/4

Performances

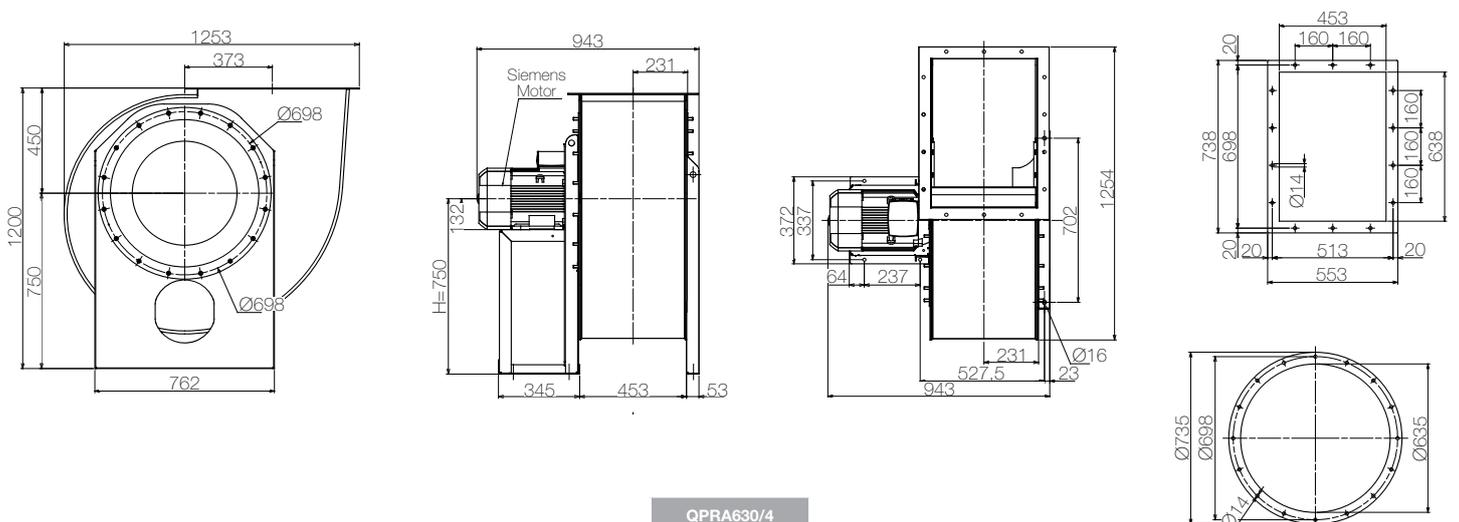
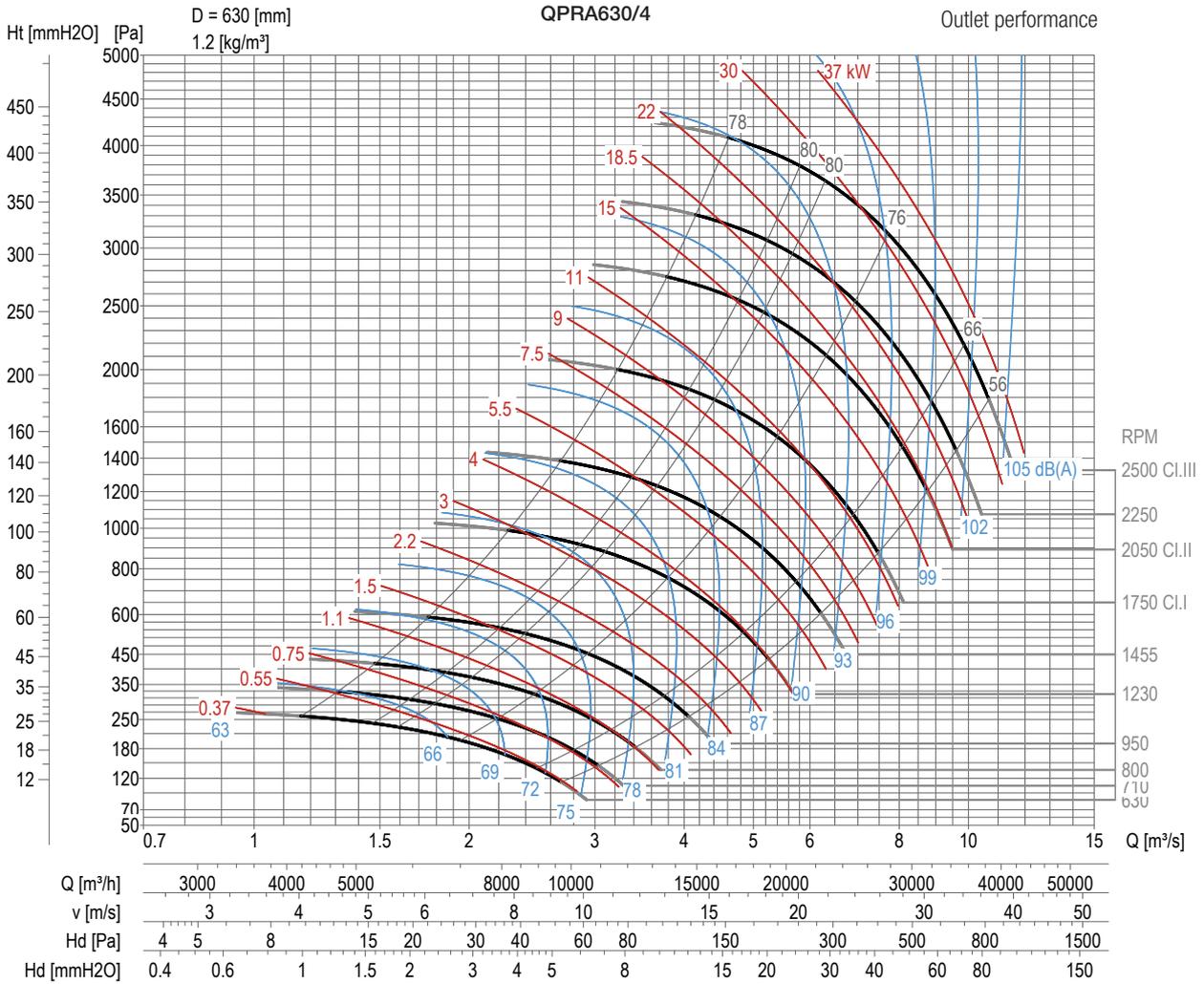
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA560R/4 (esec.4)	-	4	100	3	-	-	-	-	-	12600	3,7	70
QPRA560/4 (esec.4)	-	4	112	4	-	-	-	-	-	16200	4,3	72



QPRA560/4

Performances

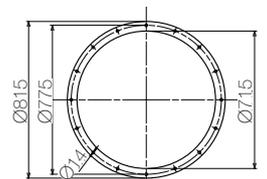
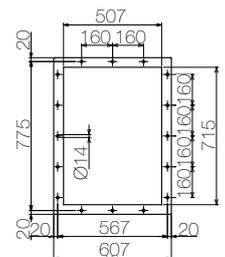
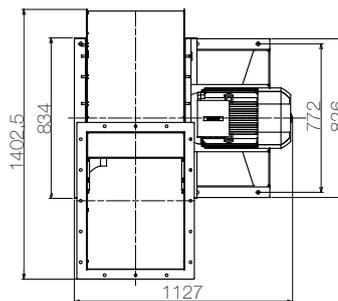
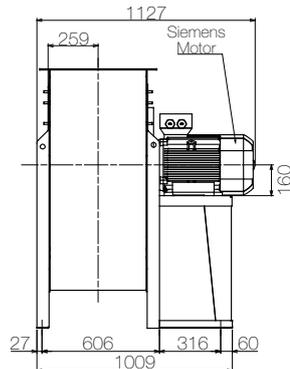
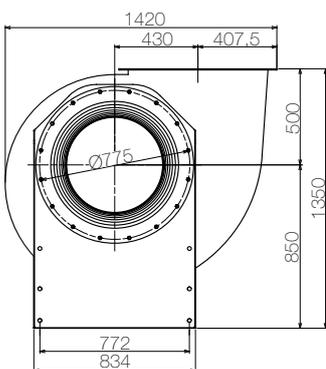
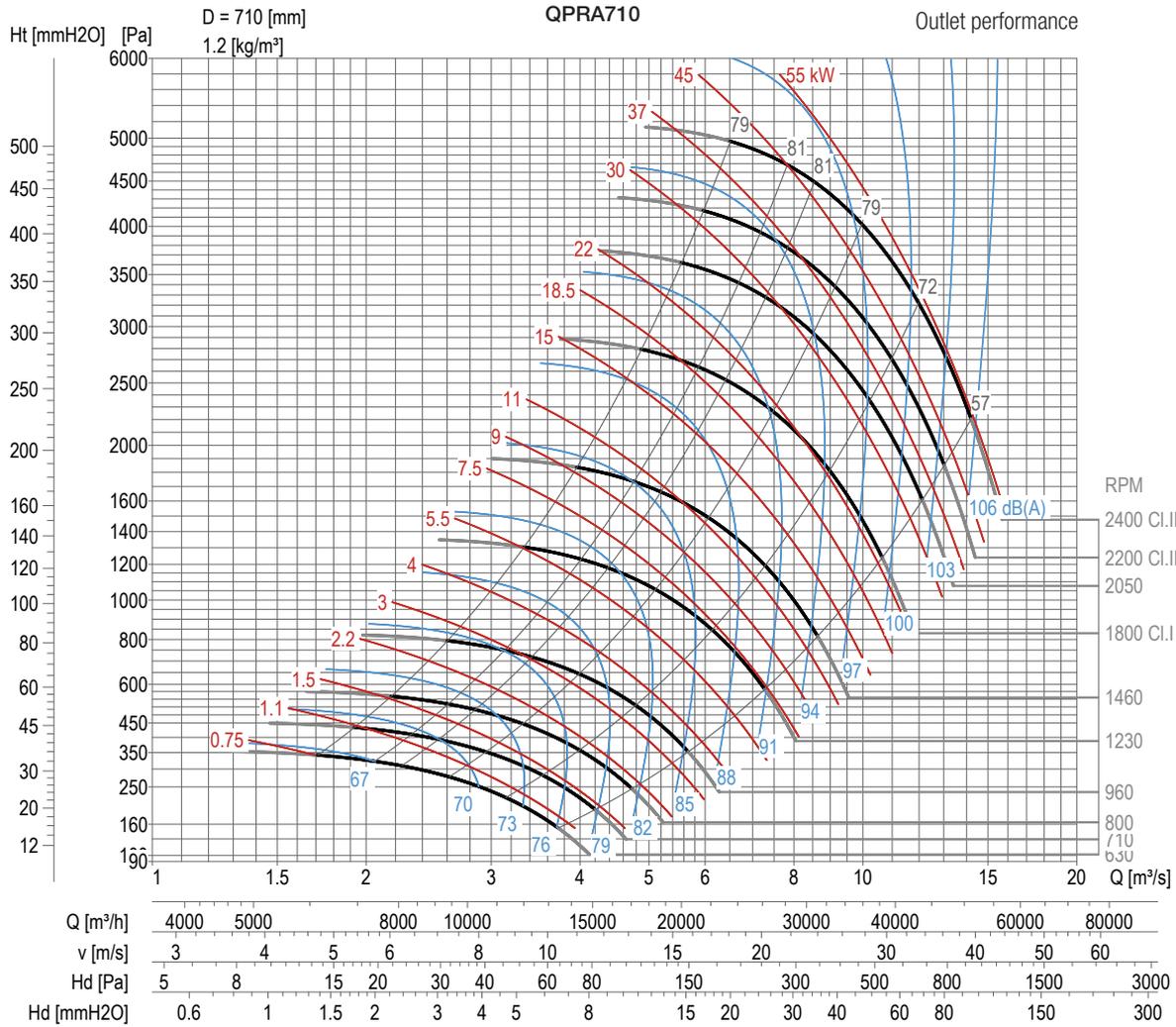
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA630R/4 (esec.4)	-	4	132	5,5	-	-	-	-	-	19800	6,2	73
QPRA630/4 (esec.4)	-	4	132	7,5	-	-	-	-	-	21600	7,5	73



QPRA630/4

Performances

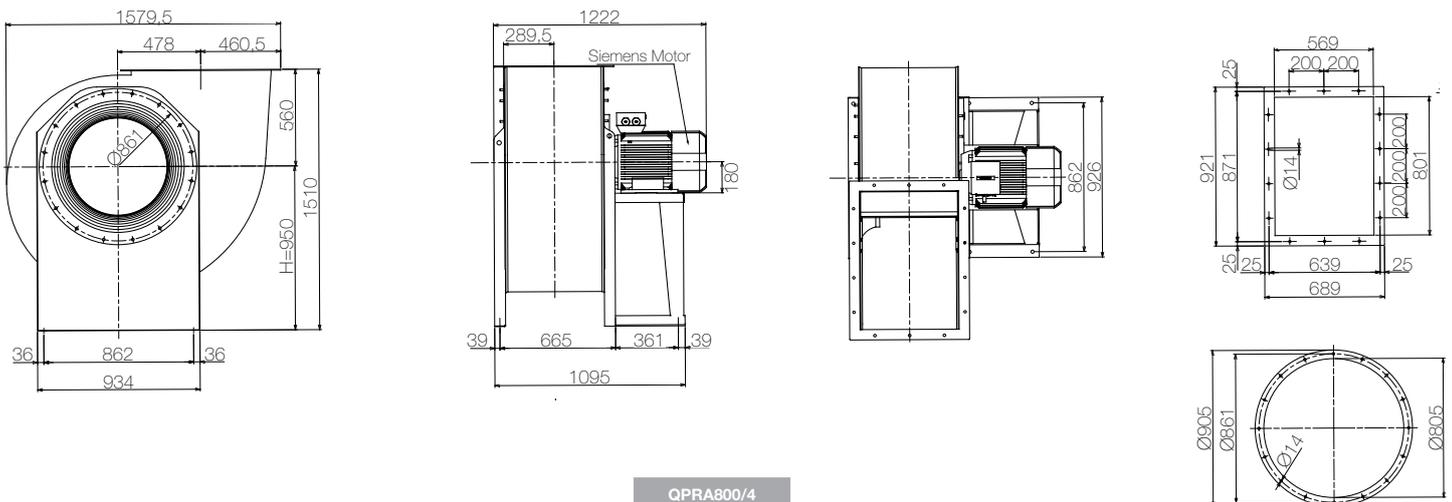
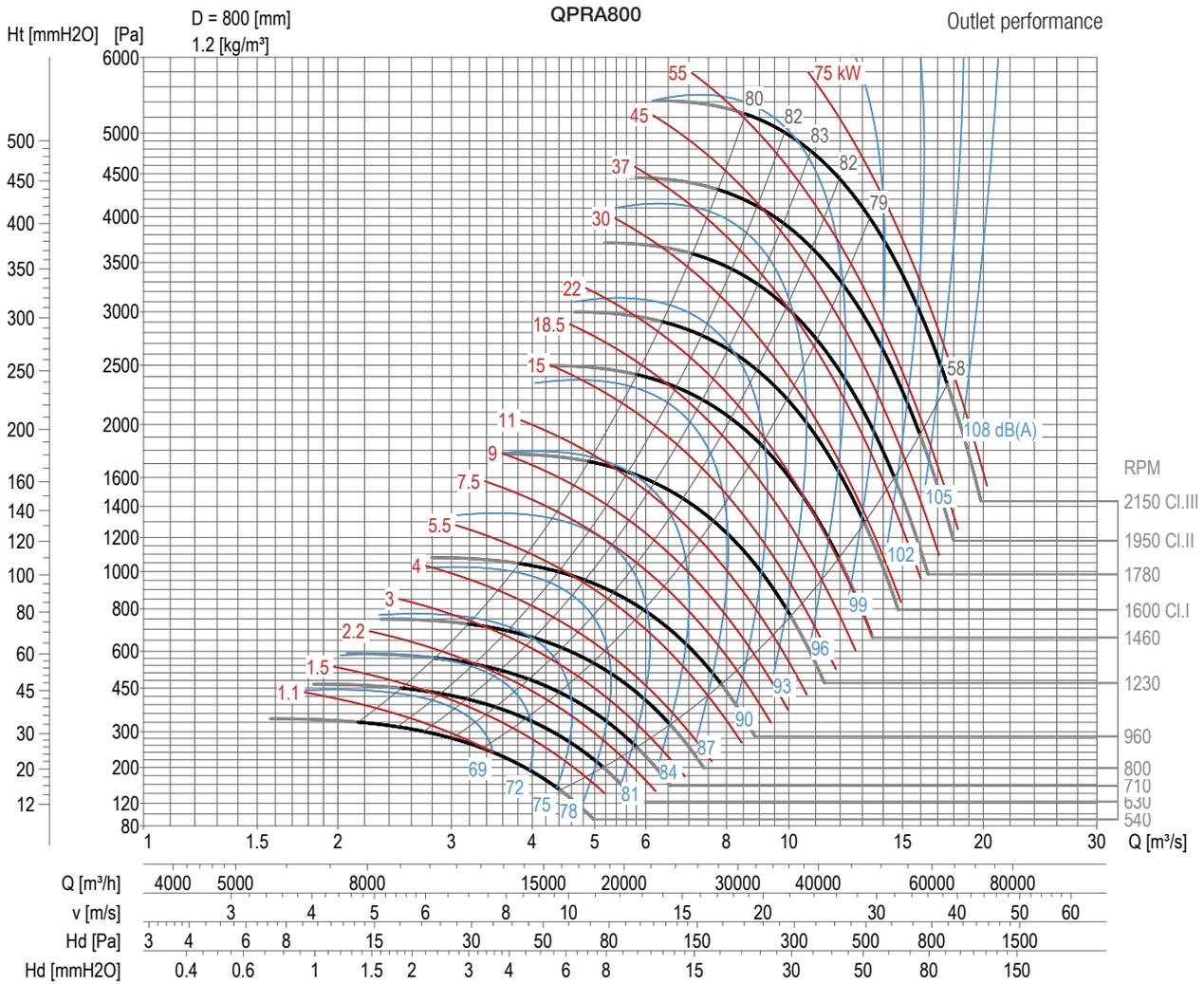
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA710R/4 (esec.4)	-	4	160	11	-	-	-	-	-	25200	13	74
QPRA710R/6 (esec.4)	-	6	132	3	-	-	-	-	-	16200	13	64
QPRA710/4 (esec.4)	-	4	160	15	-	-	-	-	-	32400	15	78
QPRA710/6 (esec.4)	-	6	132	4	-	-	-	-	-	21600	15	68



QPRA710/4

Performances

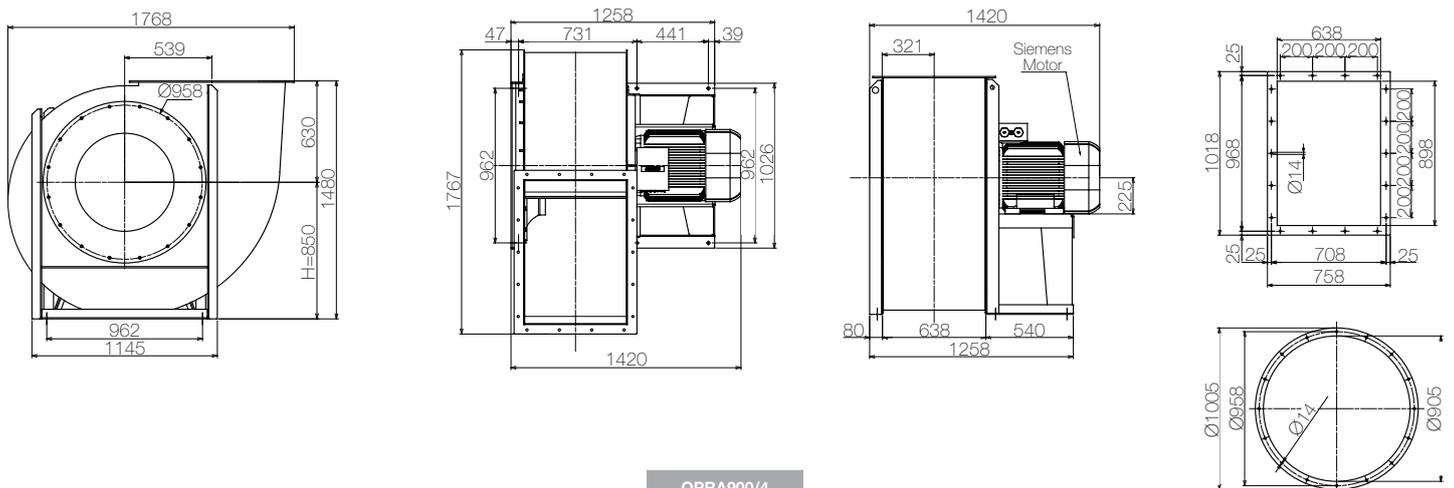
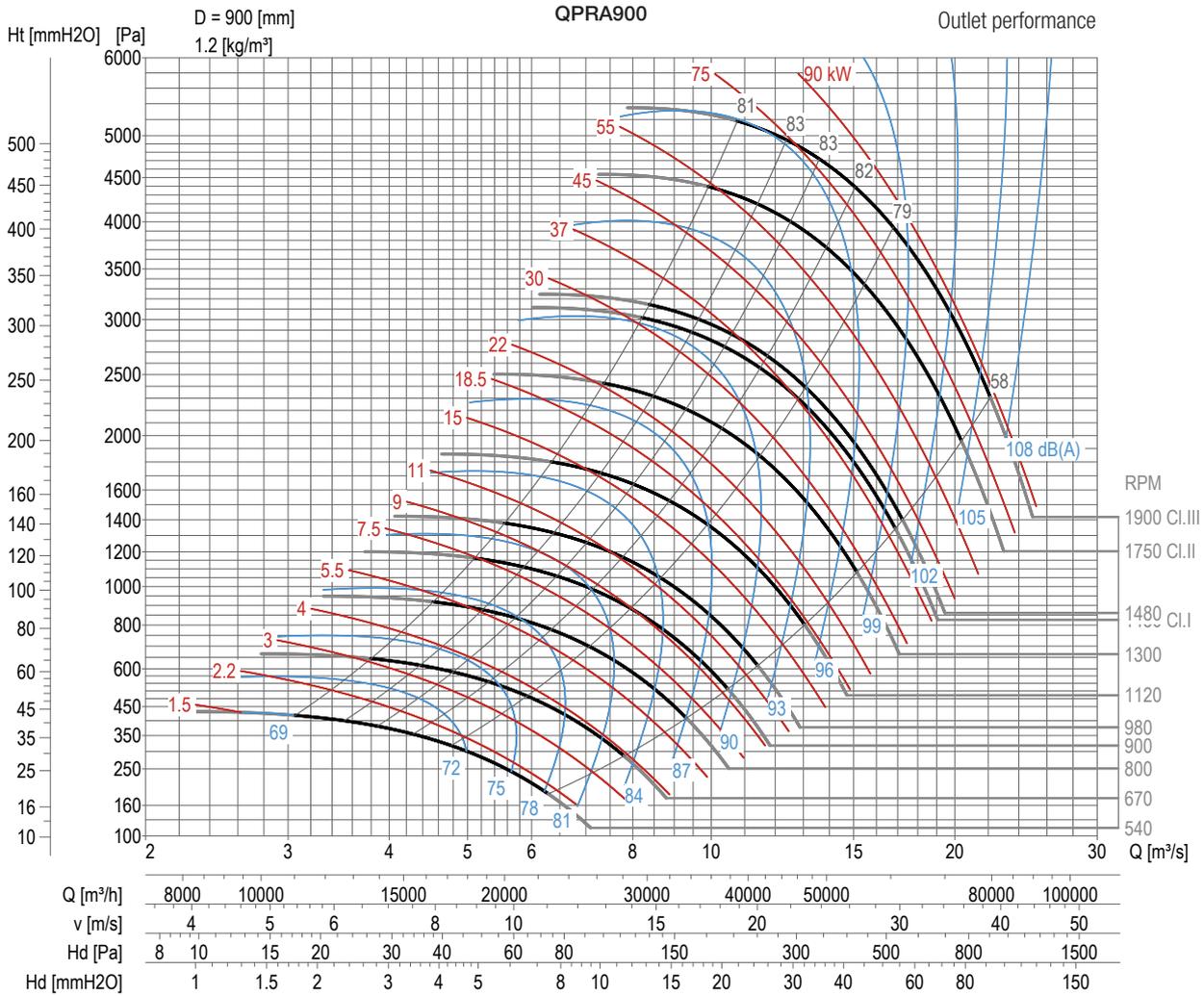
Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD ²	Lp
			size	kW	A	A		%		m ³ /h	kgm ²	dB(A) @1,5m Breakout
QPRA800R/4 (esec.4)	-	4	180	18,5	-	-	-	-	-	39600	25	79
QPRA800R/6 (esec.4)	-	6	132	5,5	-	-	-	-	-	25200	20	70
QPRA800/4 (esec.4)	-	4	180	22	-	-	-	-	-	36000	30	75
QPRA800/6 (esec.4)	-	6	160	7,5	-	-	-	-	-	28800	25	71



QPRA800/4

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
QPRA900R/4 (esec.4)	-	4	225	37	-	-	-	-	-	54000	40	81
QPRA900R/6 (esec.4)	-	6	160	11	-	-	-	-	-	36000	35	73
QPRA900/4 (esec.4)	-	4	225	45	-	-	-	-	-	61200	45	82
QPRA900/6 (esec.4)	-	6	180	15	-	-	-	-	-	39600	40	74



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
QPRA1000R/6 (esec.4)	-	6	200	18,5	-	-	-	-	-	46800	65	75
QPRA1000/6 (esec.4)	-	6	200	22	-	-	-	-	-	54000	70	76

