

## INDUSTRIAL CENTRIFUGAL FANS WITH HIGH PRESSURE

### APPLICATION

Industrial 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, for pneumatic transport, fumes, fine dust (suitable for transporting solid materials mixed with air, chips and sawdust with a non-transited fan).

### 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 400÷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  $Q = 1.500 \div 140.000 \text{ m}^3/\text{h}$ .
  - Total pressure  $P_{\text{tot}} = 1.500 \div 11.000 \text{ Pa}$ .
- Operating temperature range from  $-10^\circ\text{C}$  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  $250^\circ\text{C}$  in case of directly coupled fans, and upto  $450^\circ\text{C}$  for fans with transmission drive.
- INOX version or other special steel.
- ATEX version for zone 1, 21, 2 e 22.
- IE3 motors.
- Top branded motors (e.g. Siemens).

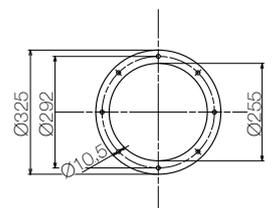
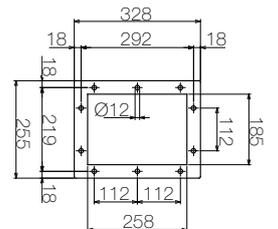
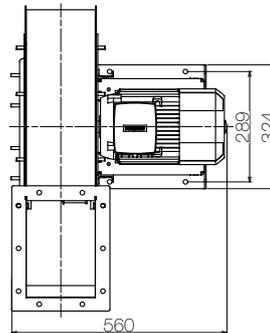
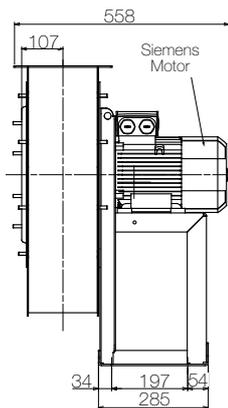
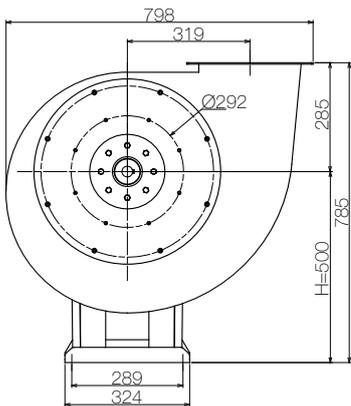
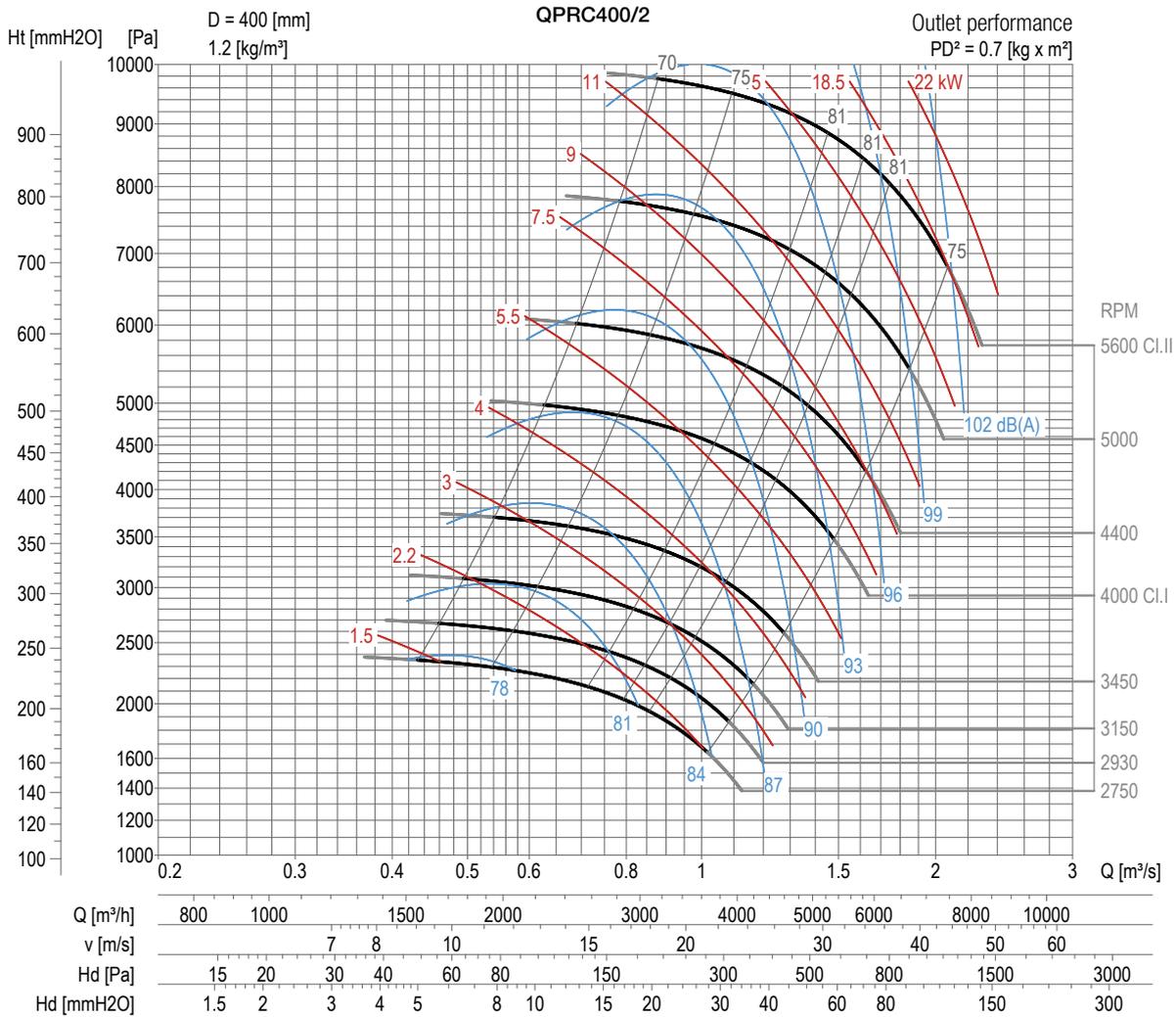
### ACCESSORIES

- 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

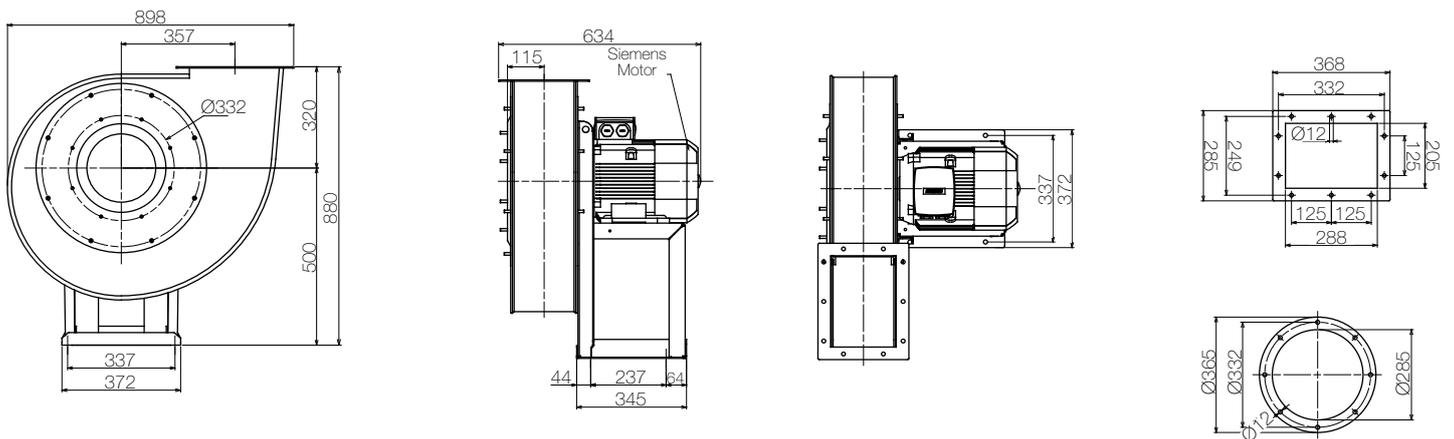
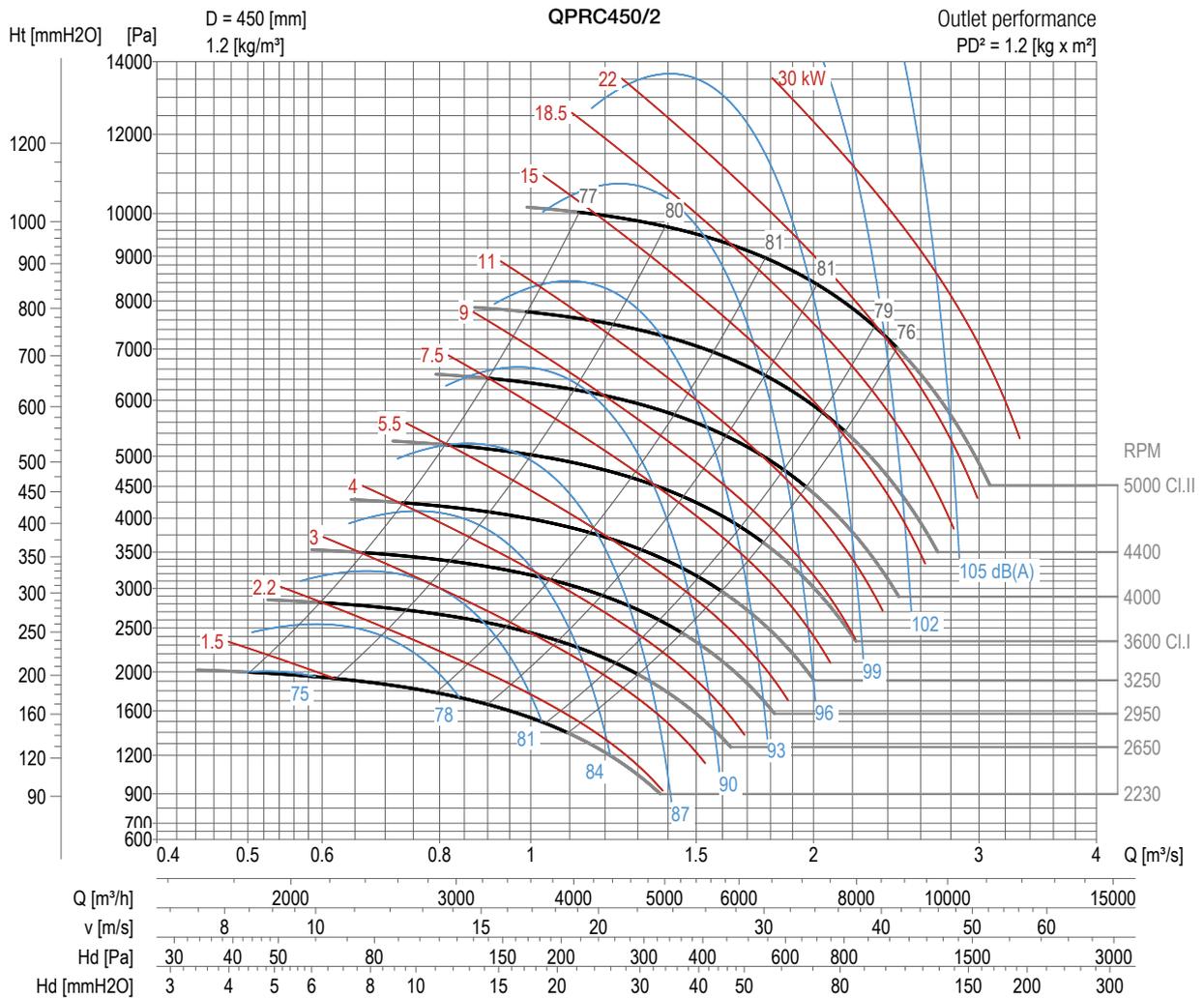
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			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC400R/2 (esec.4)	-	2	90	2,2	-	-	-	-	-	2880	0,60	65
QPRC400/2 (esec.4)	-	2	100	3	-	-	-	-	-	3600	0,66	66



QPRC400/2

## Performances

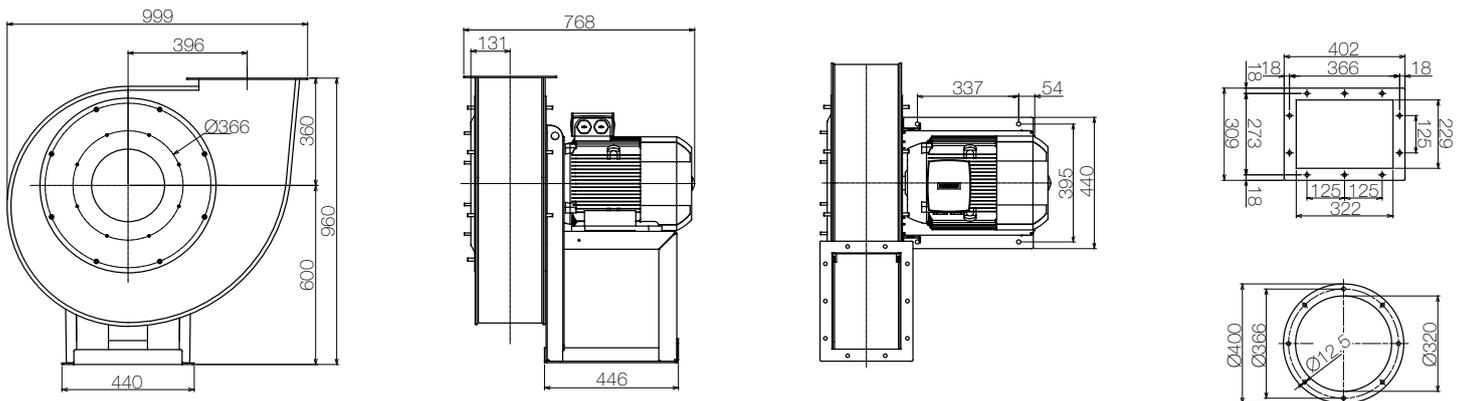
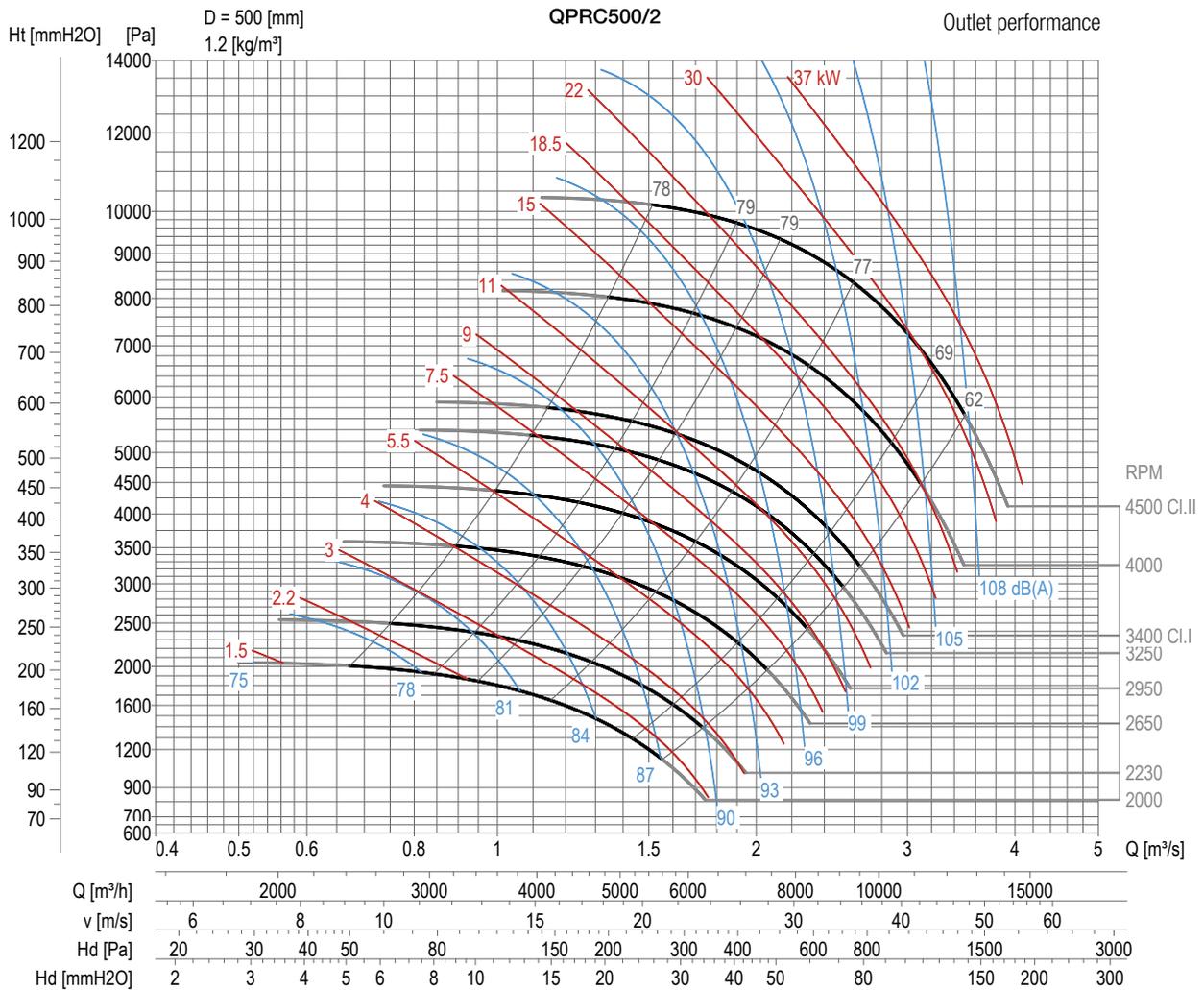
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			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC450R/2 (esec.4)	-	2	112	4,0	-	-	-	-	-	4320	1,0	69
QPRC450/2 (esec.4)	-	2	132	5,5	-	-	-	-	-	5400	1,20	72



QPRC450/2

## Performances

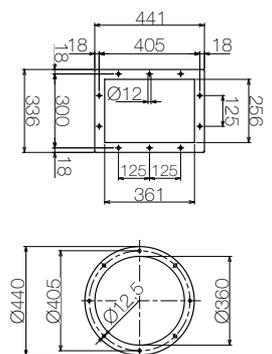
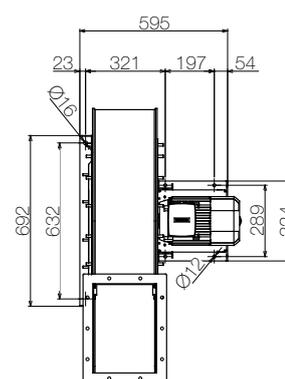
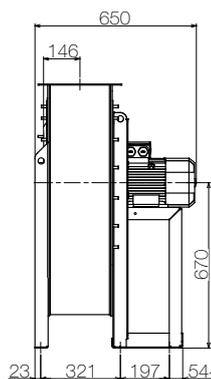
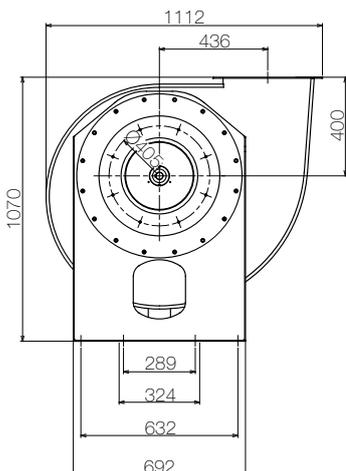
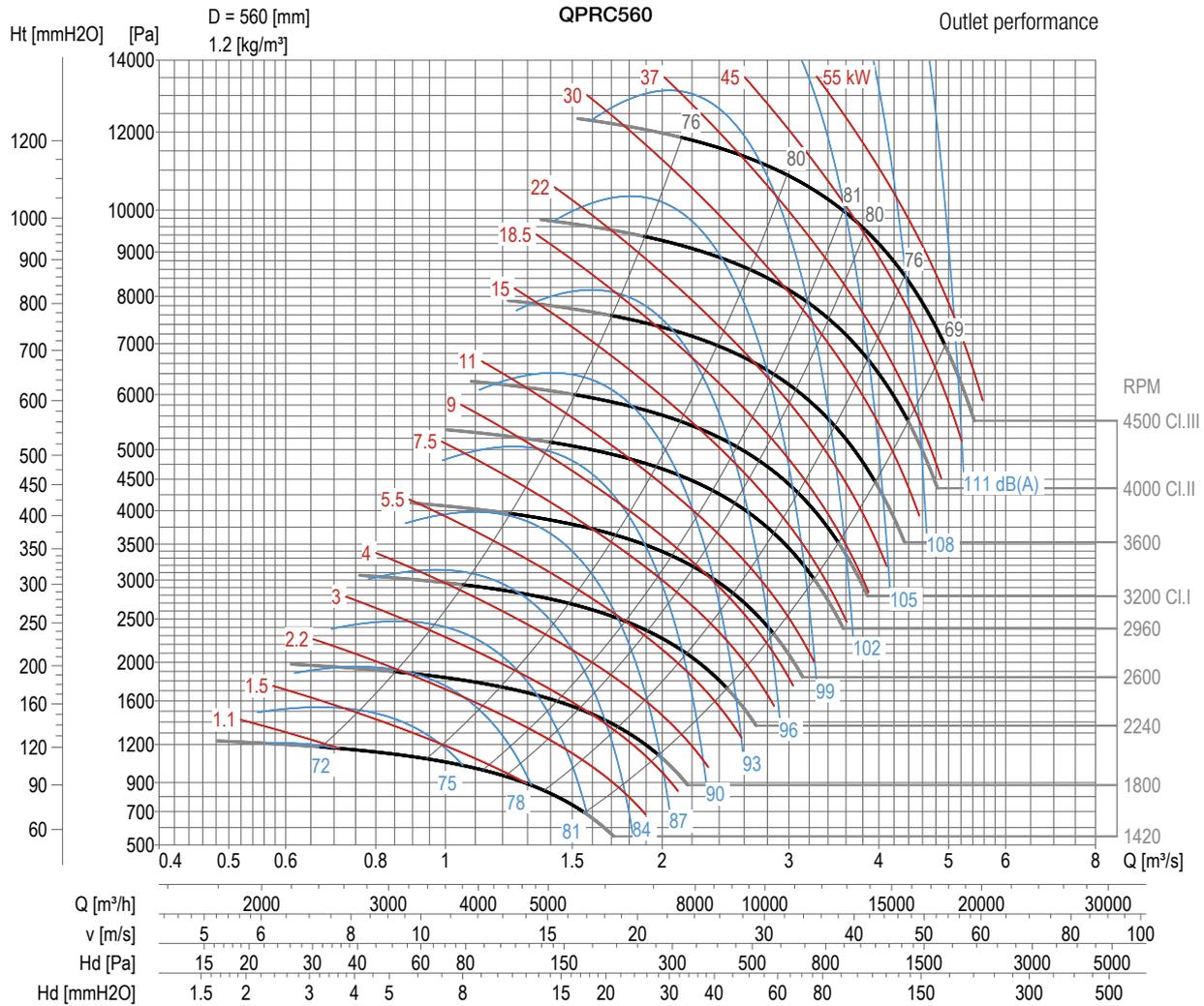
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			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC500R/2 (esec.4)	-	2	132	7,5	-	-	-	-	-	7200	1,80	77
QPRC500/2 (esec.4)	-	2	160	11	-	-	-	-	-	8640	2,0	80



QPRC500/2

## Performances

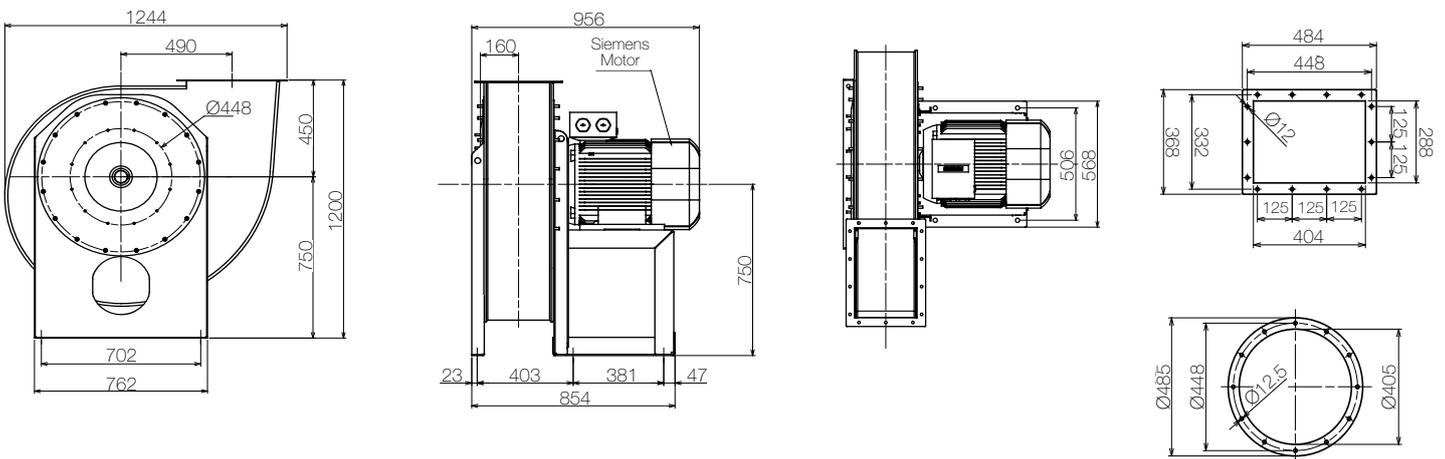
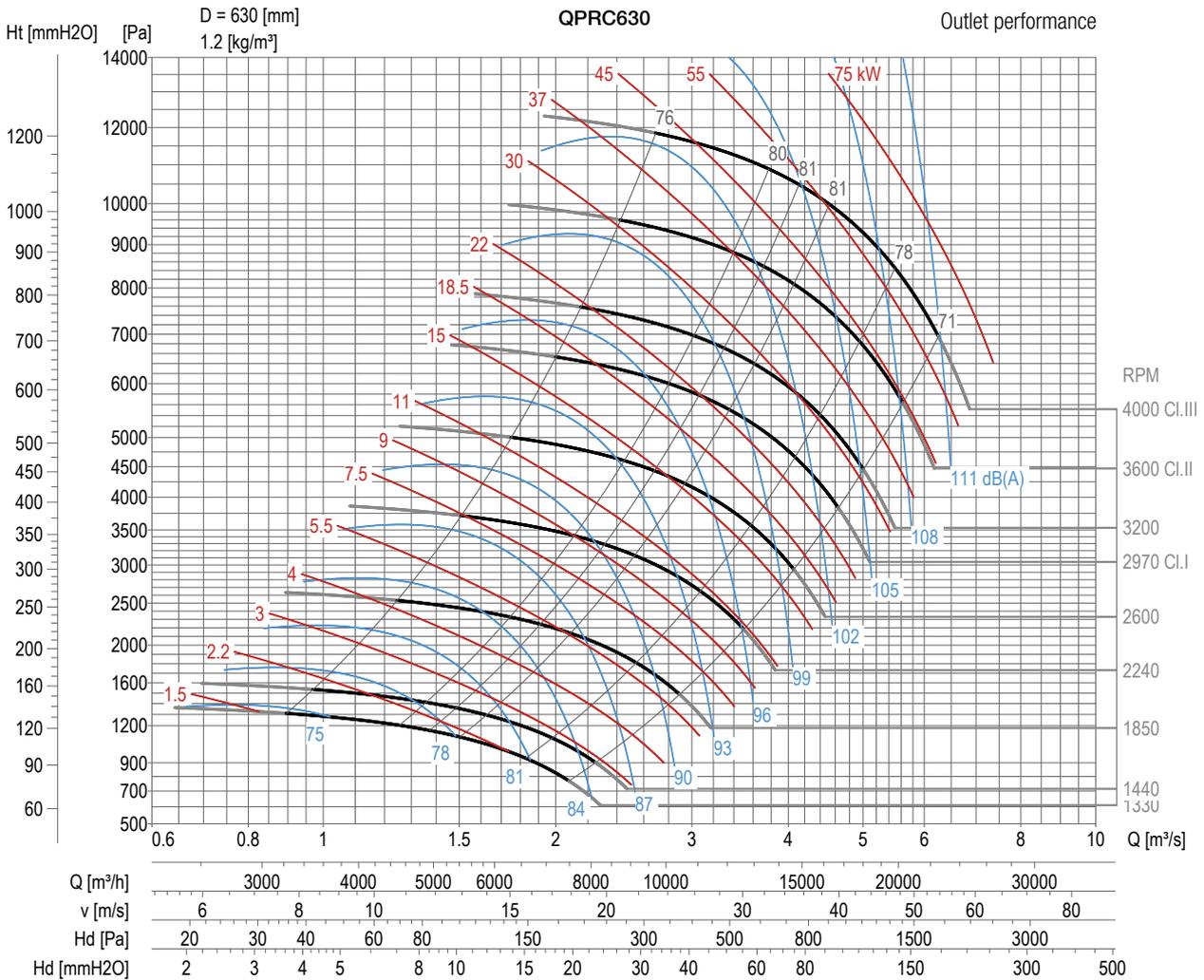
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			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC560R/2 (esec.4)	-	2	160	11	-	-	-	-	-	8640	2,30	76
QPRC560R/4 (esec.4)	-	4	90	1,5	-	-	-	-	-	4680	2,10	62
QPRC560/2 (esec.4)	-	2	160	15	-	-	-	-	-	12600	2,40	84
QPRC560/4 (esec.4)	-	4	100	2,2	-	-	-	-	-	5400	2,40	63



QPRC560/2

## Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD <sup>2</sup>	Lp
			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC630R/2 (esec.4)	-	2	180	22	-	-	-	-	-	14400	4,0	84
QPRC630R/4 (esec.4)	-	4	100	3	-	-	-	-	-	6120	3,9	65
QPRC630/2 (esec.4)	-	2	200	30	-	-	-	-	-	18000	4,7	87
QPRC630/4 (esec.4)	-	4	112	4	-	-	-	-	-	7920	4,2	68

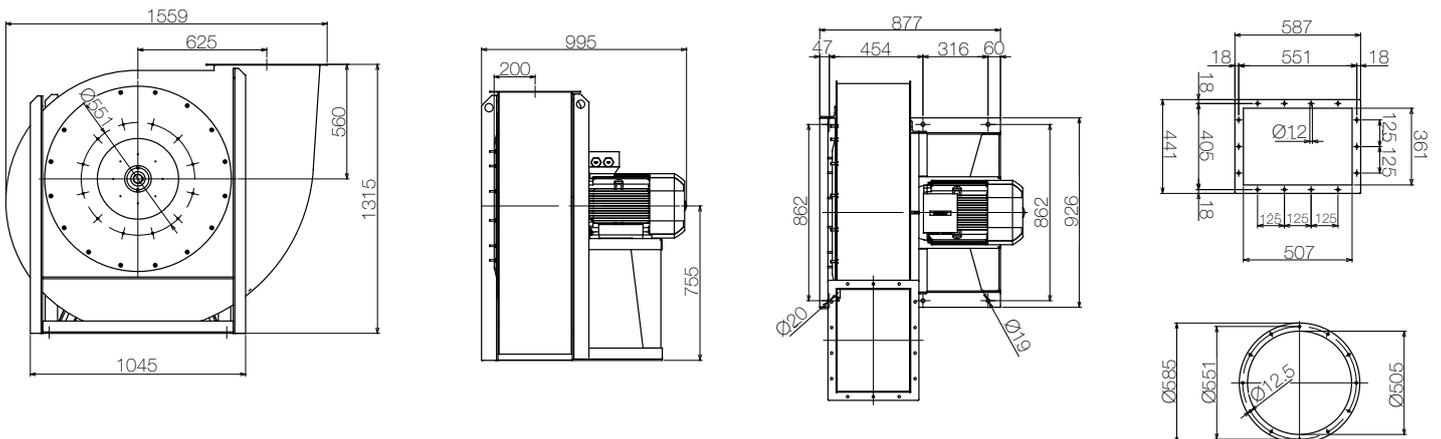
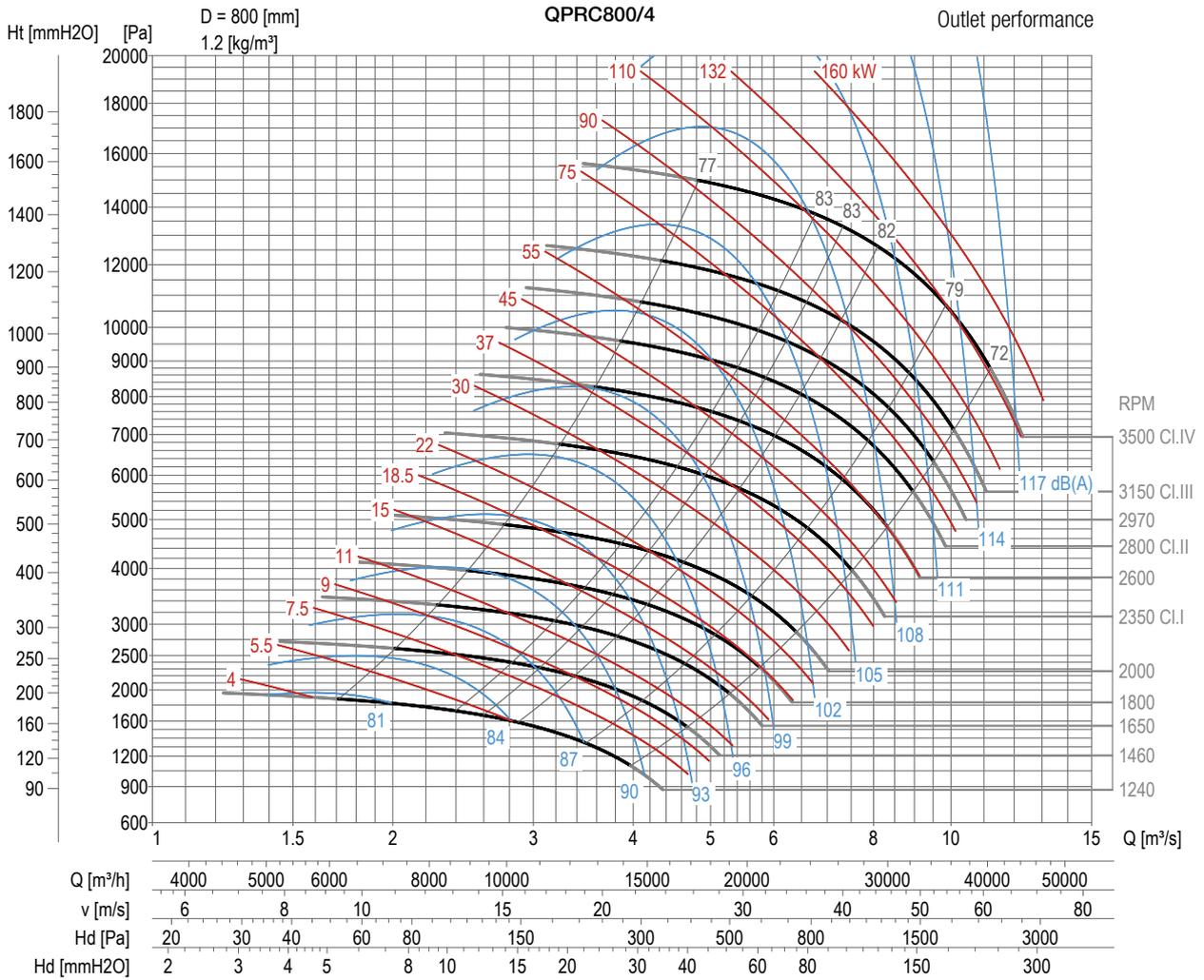


QPRC630/2



## Performances

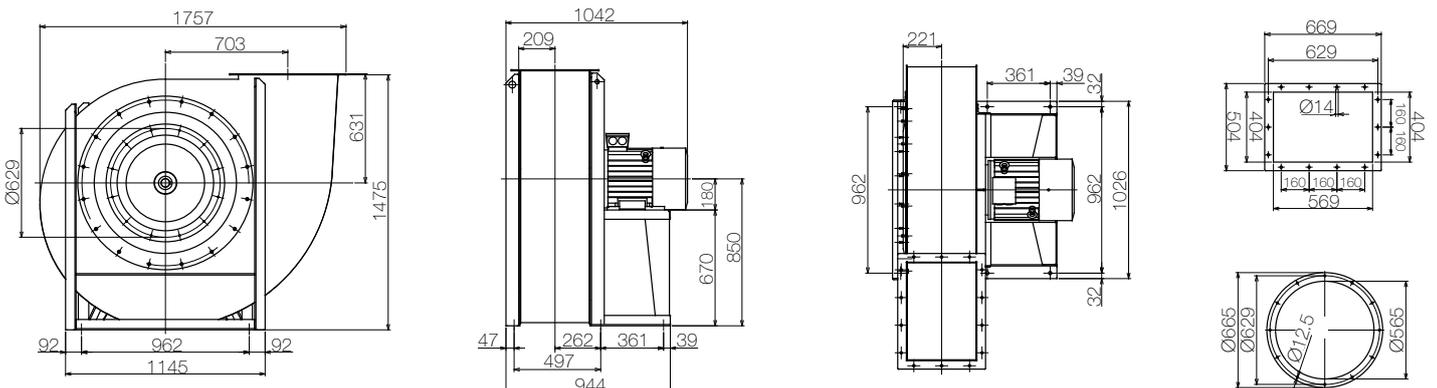
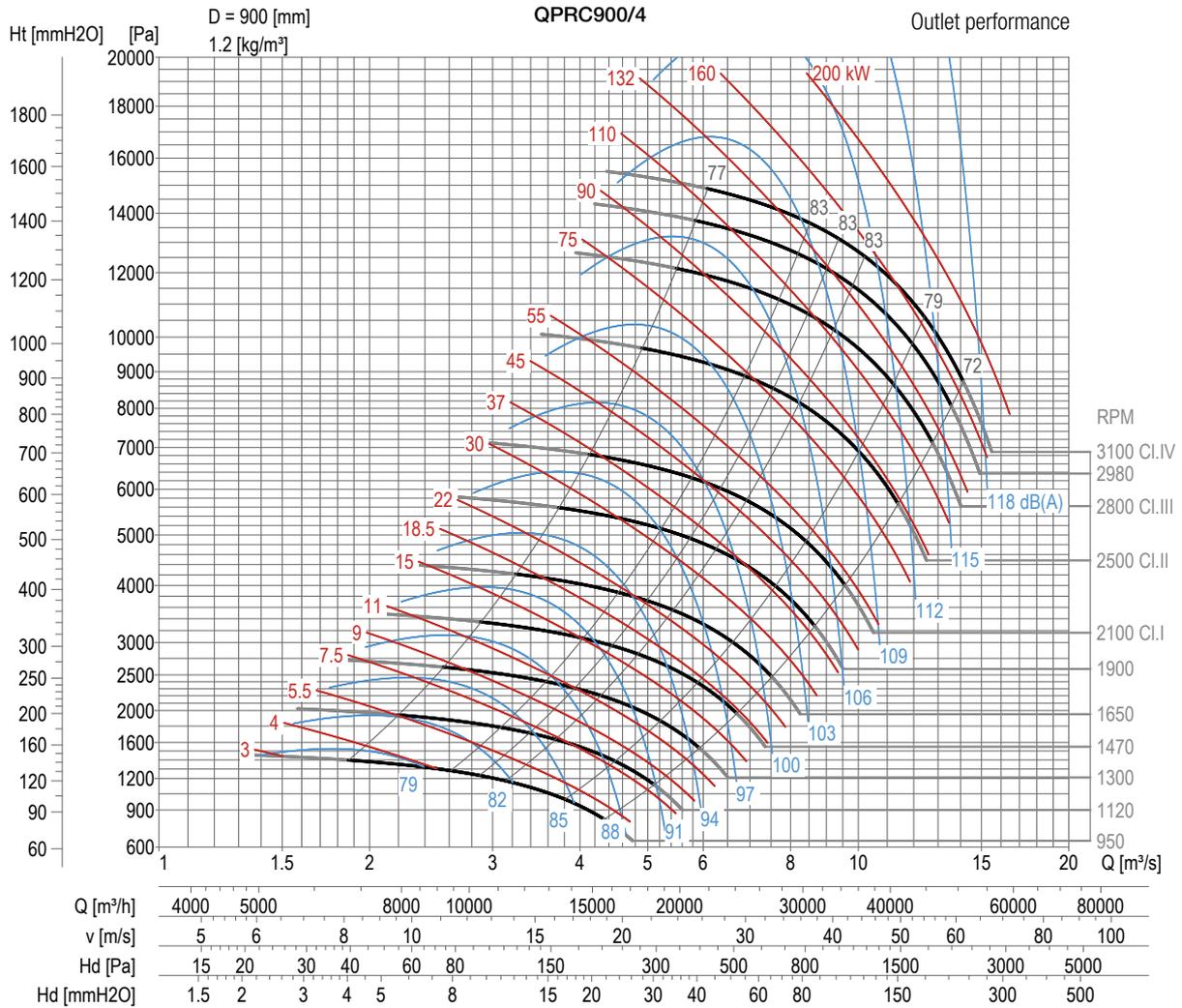
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			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC800R/4 (esec.4)	-	4	132	7,5	-	-	-	-	-	10800	14	69
QPRC800/4 (esec.4)	-	4	160	11	-	-	-	-	-	18000	16	77



QPRC800/4

## Performances

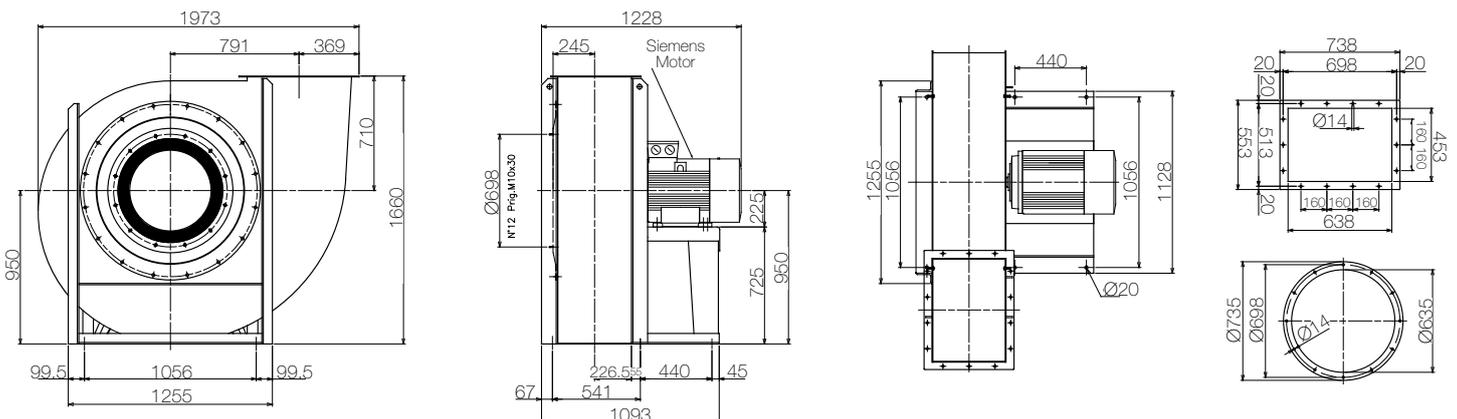
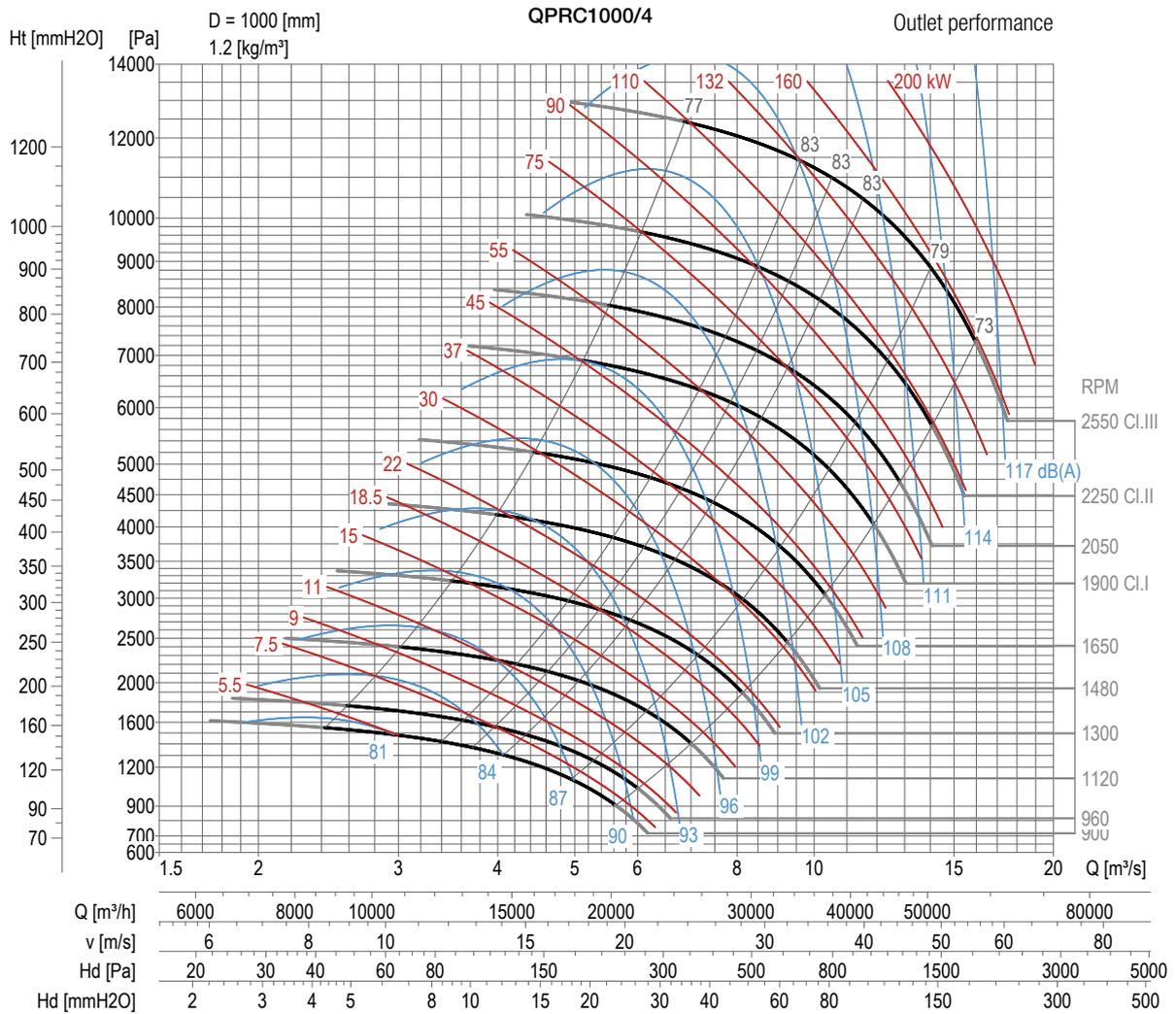
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			size	kW	A	A		%	N	m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC900R/4 (esec.4)	-	4	160	15	-	-	-	-	-	19800	25	78
QPRC900/4 (esec.4)	-	4	180	22	-	-	-	-	-	25200	28	81



QPRC900/4

## Performances

Description	Code	Poles	Motor	P mec	I nom	I start	IP/Cl.	Efficiency	FMEG N	Q max	PD <sup>2</sup>	Lp
			size	kW	A	A		%		m <sup>3</sup> /h	kgm <sup>2</sup>	dB(A) @1,5m Breakout
QPRC1000R/4 (esec.4)	-	4	200	30	-	-	-	-	-	28800	47	82
QPRC1000/4 (esec.4)	-	4	225	37	-	-	-	-	-	36000	52	86



QPRC1000/4