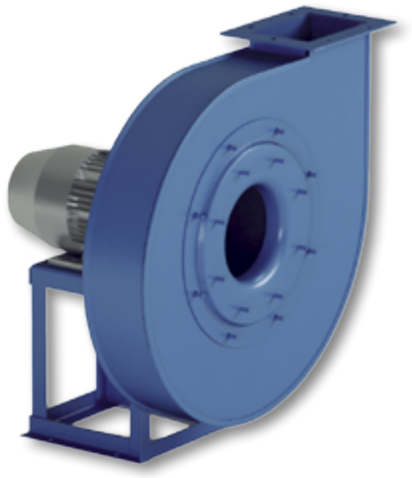
QPRE



INDUSTRIAL CENTRIFUGAL FANS WITH VERY HIGH PRESSURE

APPLICATION

High pressure industrial centrifugal fans with backward curved impeller, suitable for exhausting clean or slightly dusty air. They can be also used for pneumatic transport of solid materials mixed with air, like chips and sawdust (with a non-transited fan), fumes and fine dust, where high pressure levels are requested.

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 in bolted orientable version.
- 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÷110.000m^3/h.
  - Total pressure P_{tot} = 1000÷22.000Pa.
- 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).

UPON REQUEST

- Execution 4 upto size 1600.
- Execution 5 upto size 1000.
- Execution 1,8 or 12 upto size 1000.
- Execution 9 upto size 2000.
- 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).

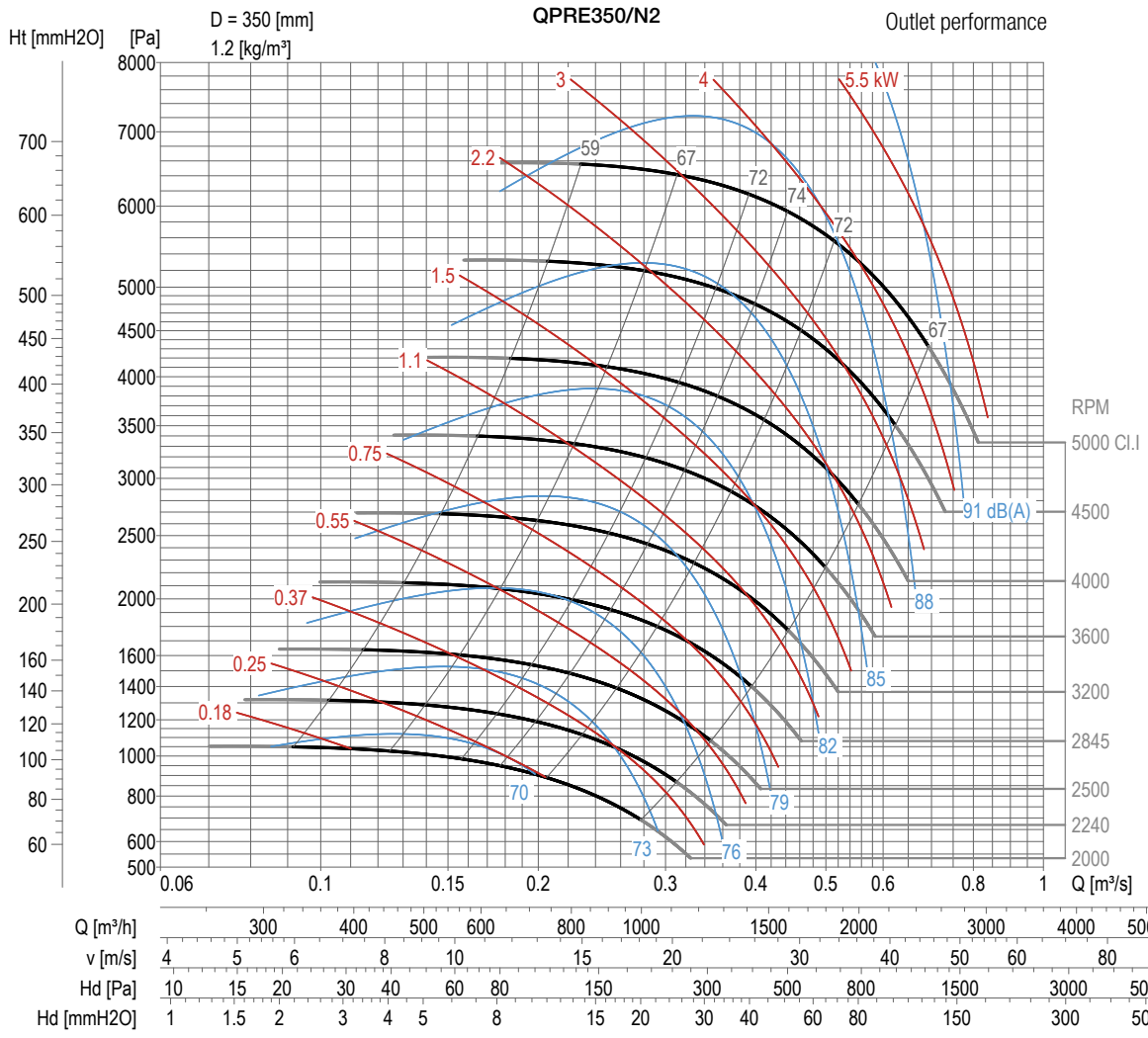
ACCESSORIES

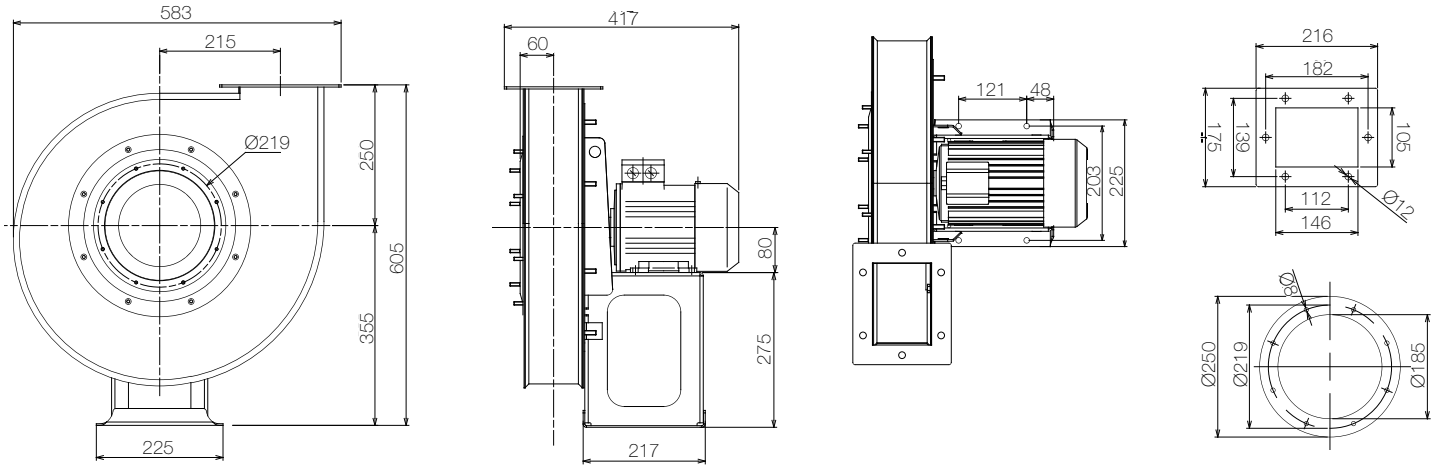
- Inspection door.
- Drainage plug.
- Inlet grid, to be used in case of free inlet.
- Outlet grid, to be used in case of free outlet.
- Inlet counter-flange.
- Outlet counter-flange.
- Inlet anti-vibration mount.
- Outlet anti-vibration mount.
- Air-intake controller.
- Outlet opposing vane louvres.
- 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	PD²	Lp
			size	kW	A	A		%		m³/h	kgm²	dB(A) @1,5m Breakout
QPRE350R/N2 (esec.4)	-	2	80	0,75	-	-	-	-	-	935	0,21	60
QPRE350/N2 (esec.4)	-	2	80	1,10	-	-	-	-	-	1440	0,27	61



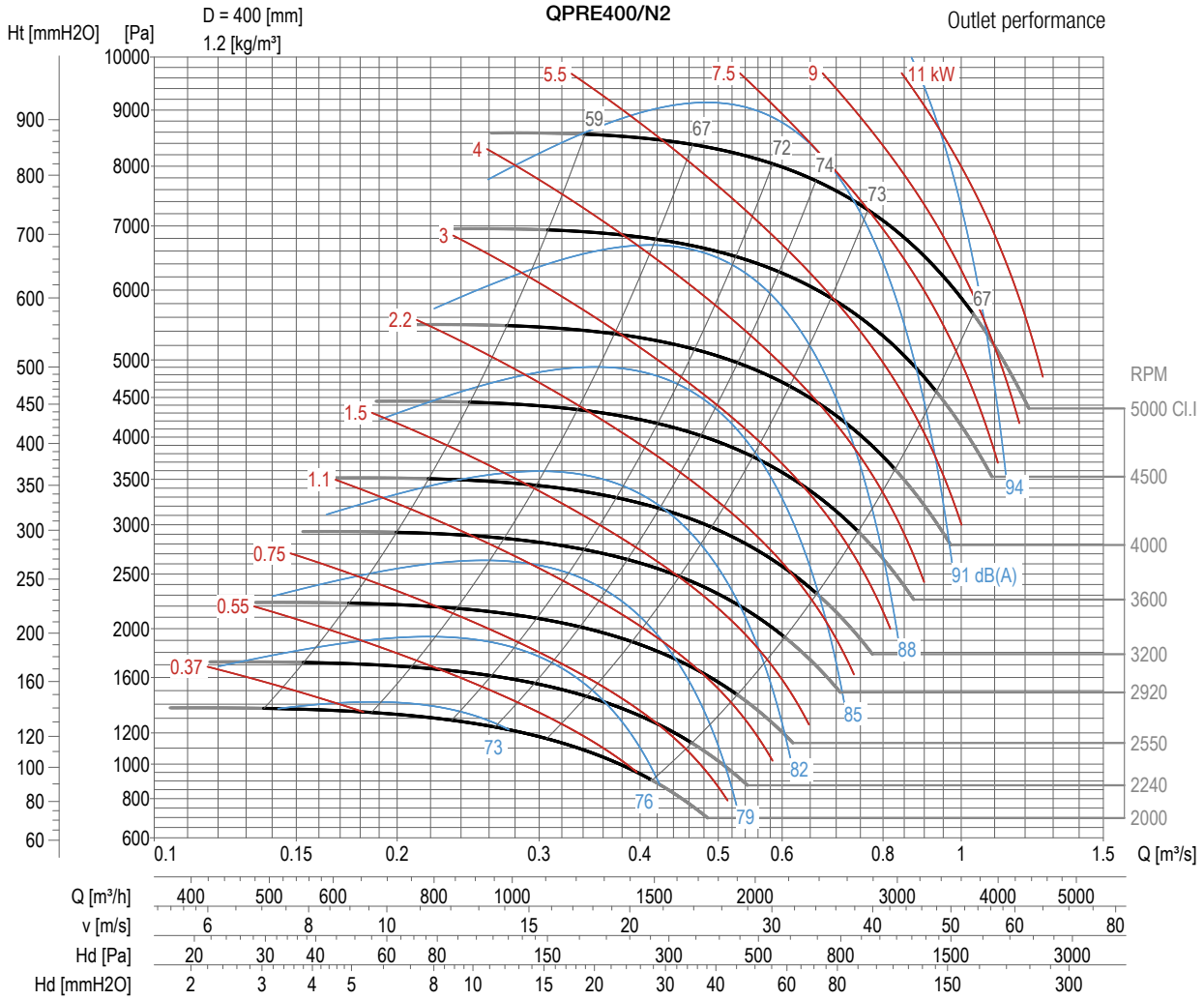


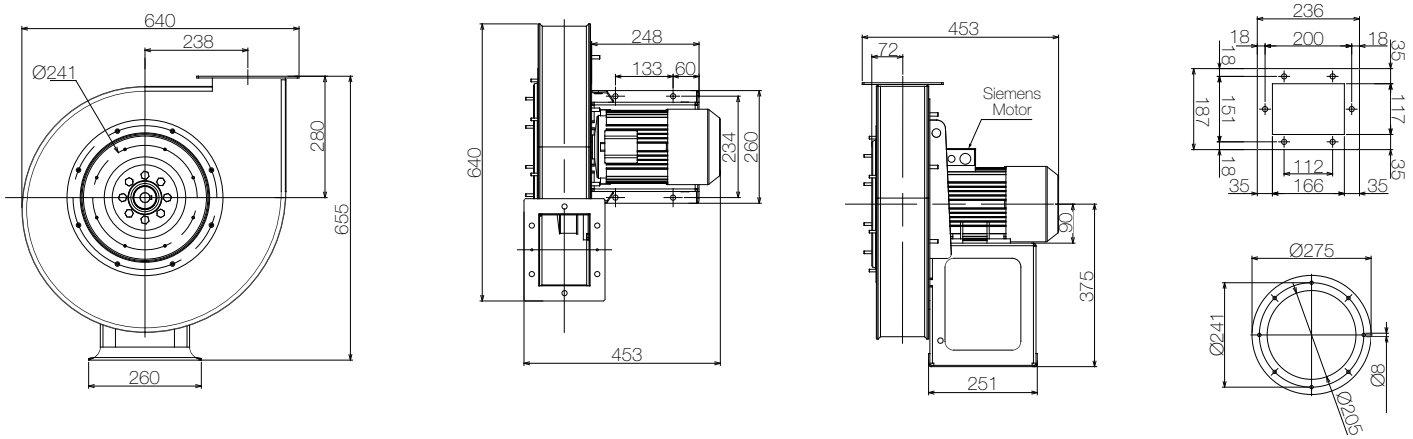
QPRE350/N2

QPRE

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
QPRE400R/N2 (esec.4)	-	2	90	1,50	-	-	-	-	-	1620	0,37	63
QPRE400/N2 (esec.4)	-	2	90	2,20	-	-	-	-	-	2160	0,52	67

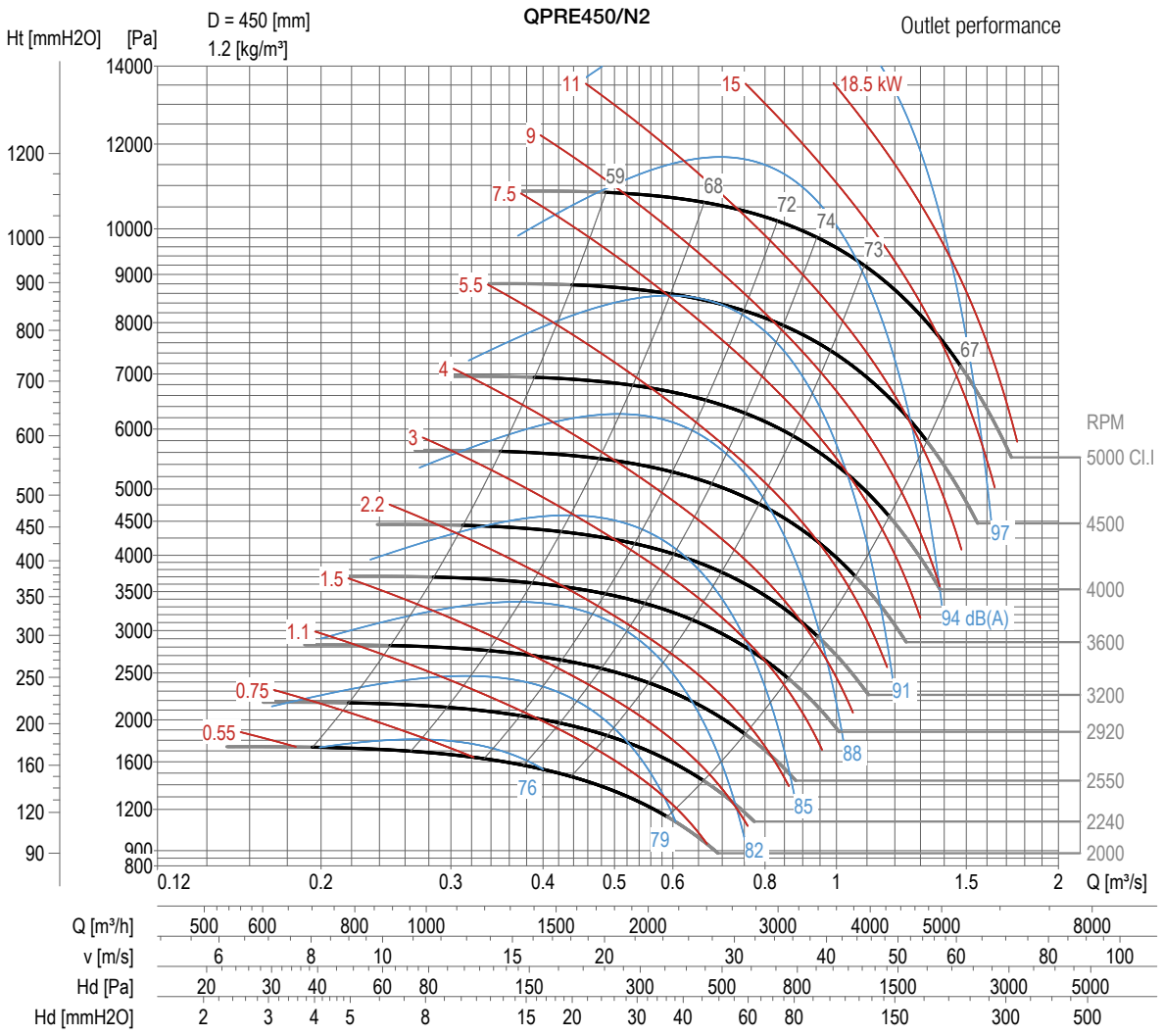


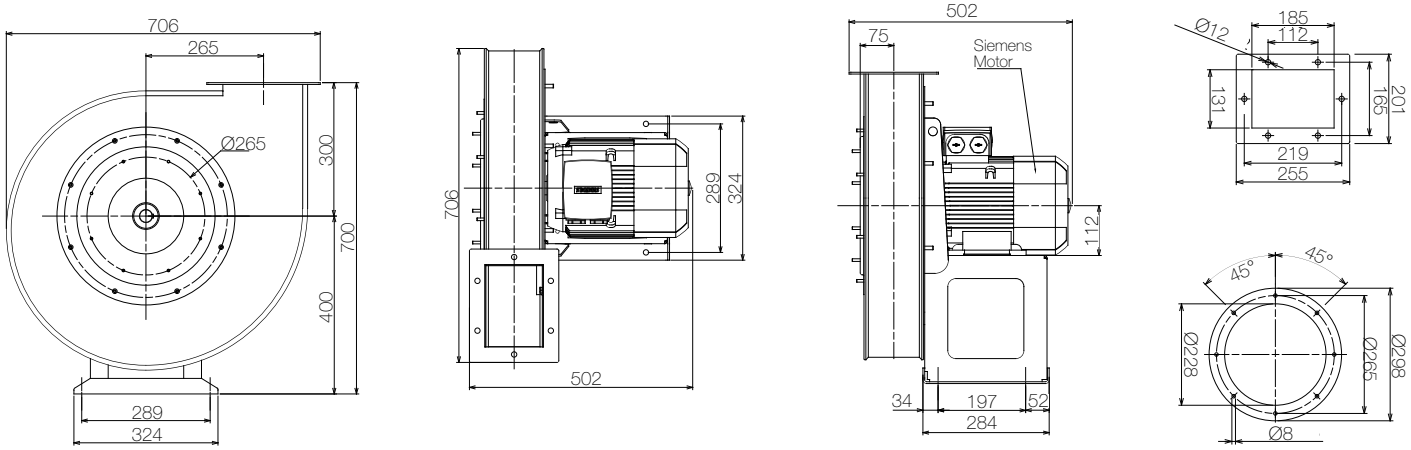


QPRE400/N2

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
QPRE450R/N2 (esec.4)	-	2	100	3	-	-	-	-	-	2520	1	67
QPRE450/N2 (esec.4)	-	2	112	4	-	-	-	-	-	2880	1,20	70



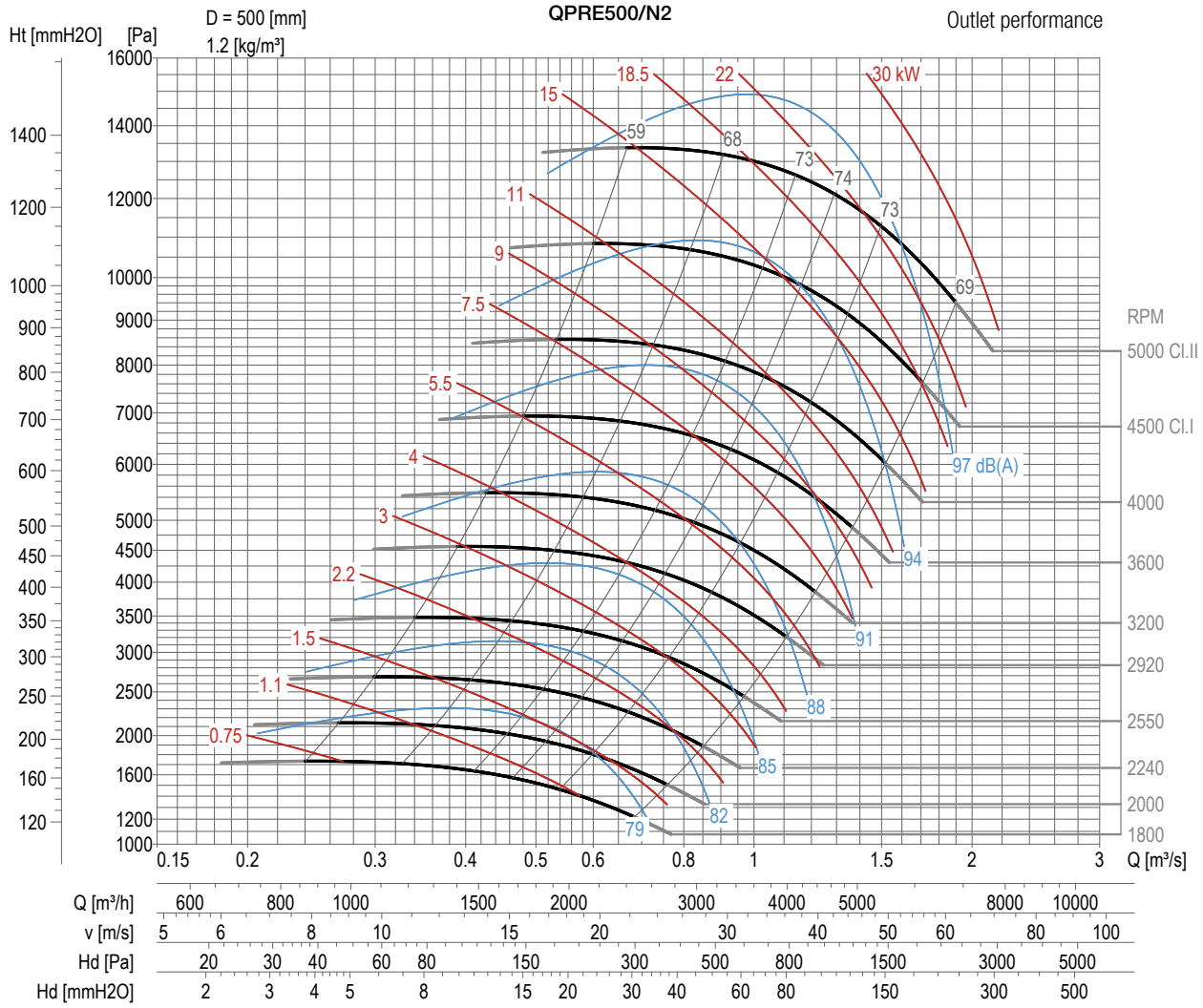


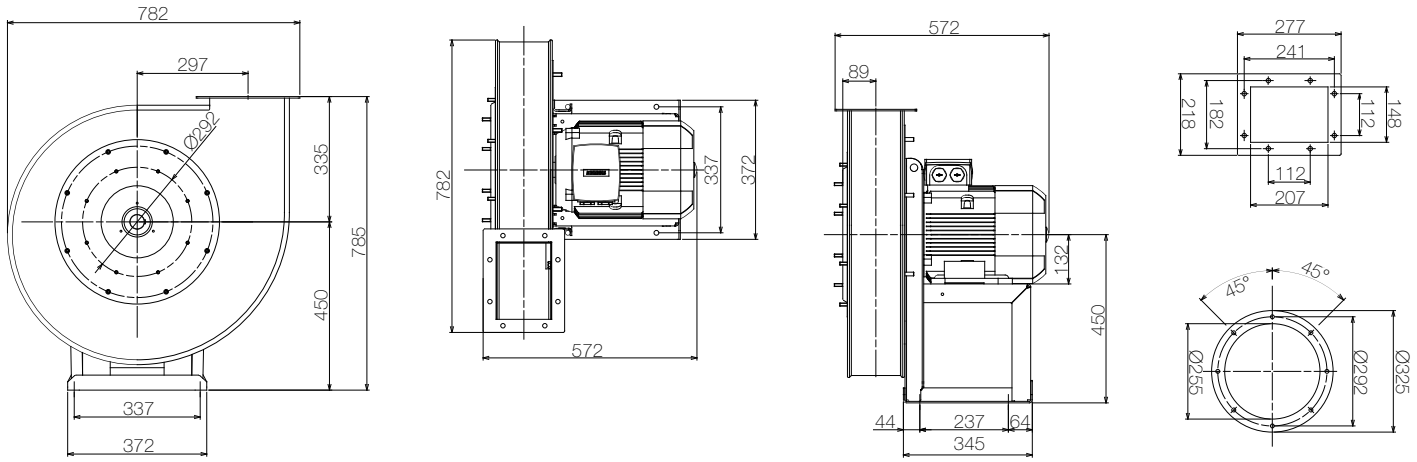
QPRE450/N2

QPRE

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
QPRE500R/N2 (esec.4)	-	2	112	4	-	-	-	-	-	3240	1,40	70
QPRE500/N2 (esec.4)	-	2	132	5,5	-	-	-	-	-	3600	1,60	70

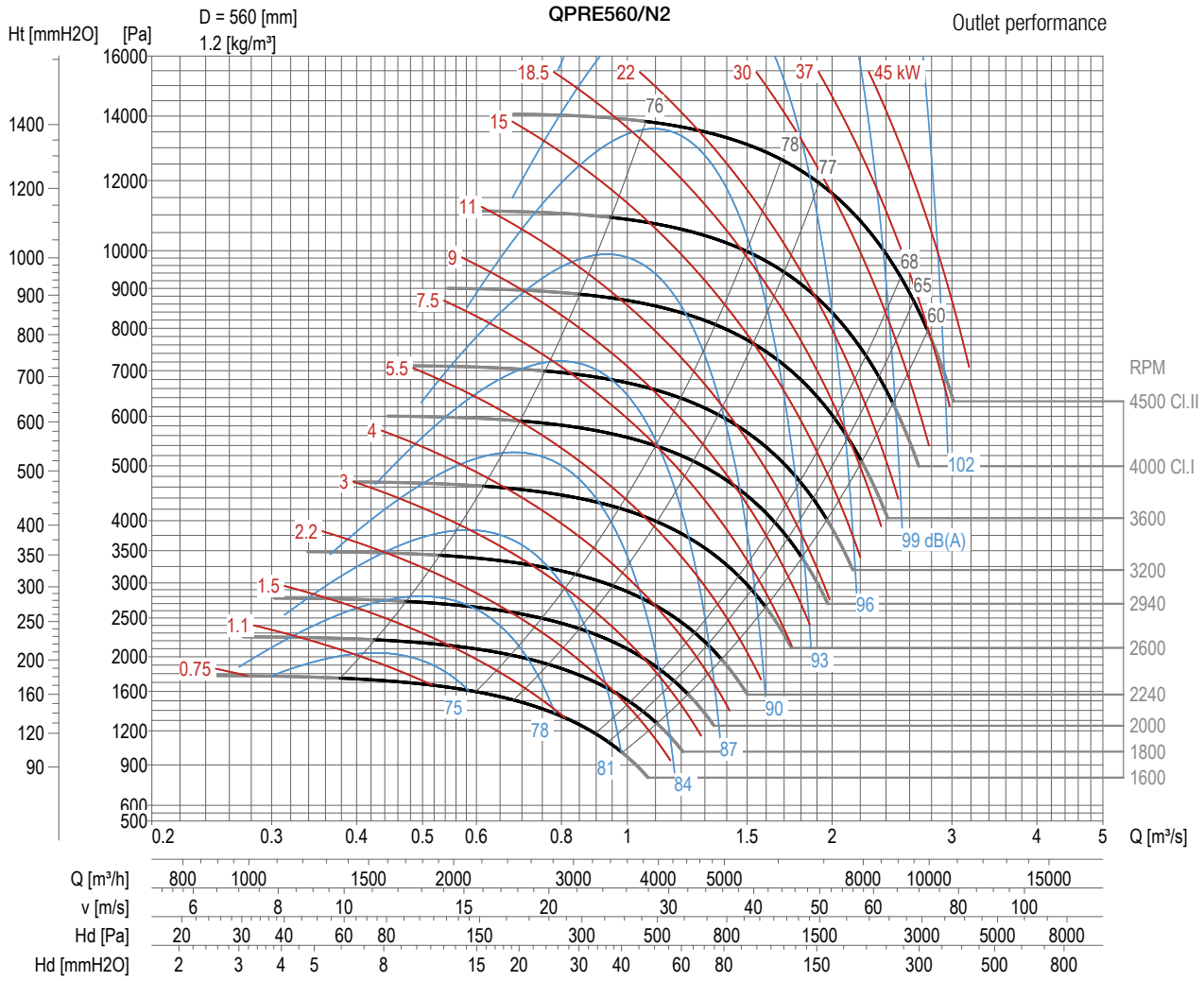


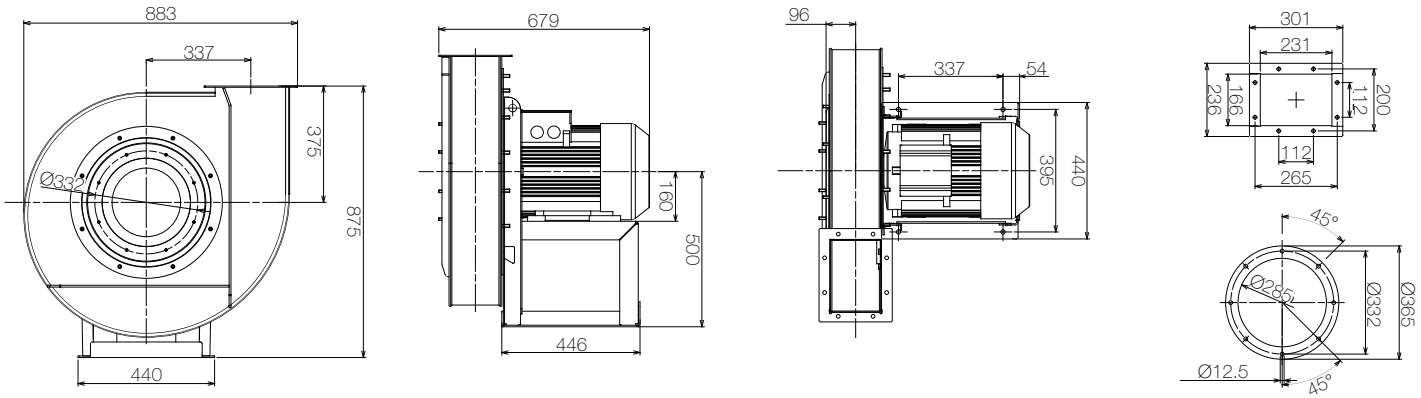


QPRE500/N2

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
QPRE560R/N2 (esec.4)	-	2	132	7,50	-	-	-	-	-	4680	2,50	74
QPRE560/N2 (esec.4)	-	2	160	11	-	-	-	-	-	5400	3,20	75

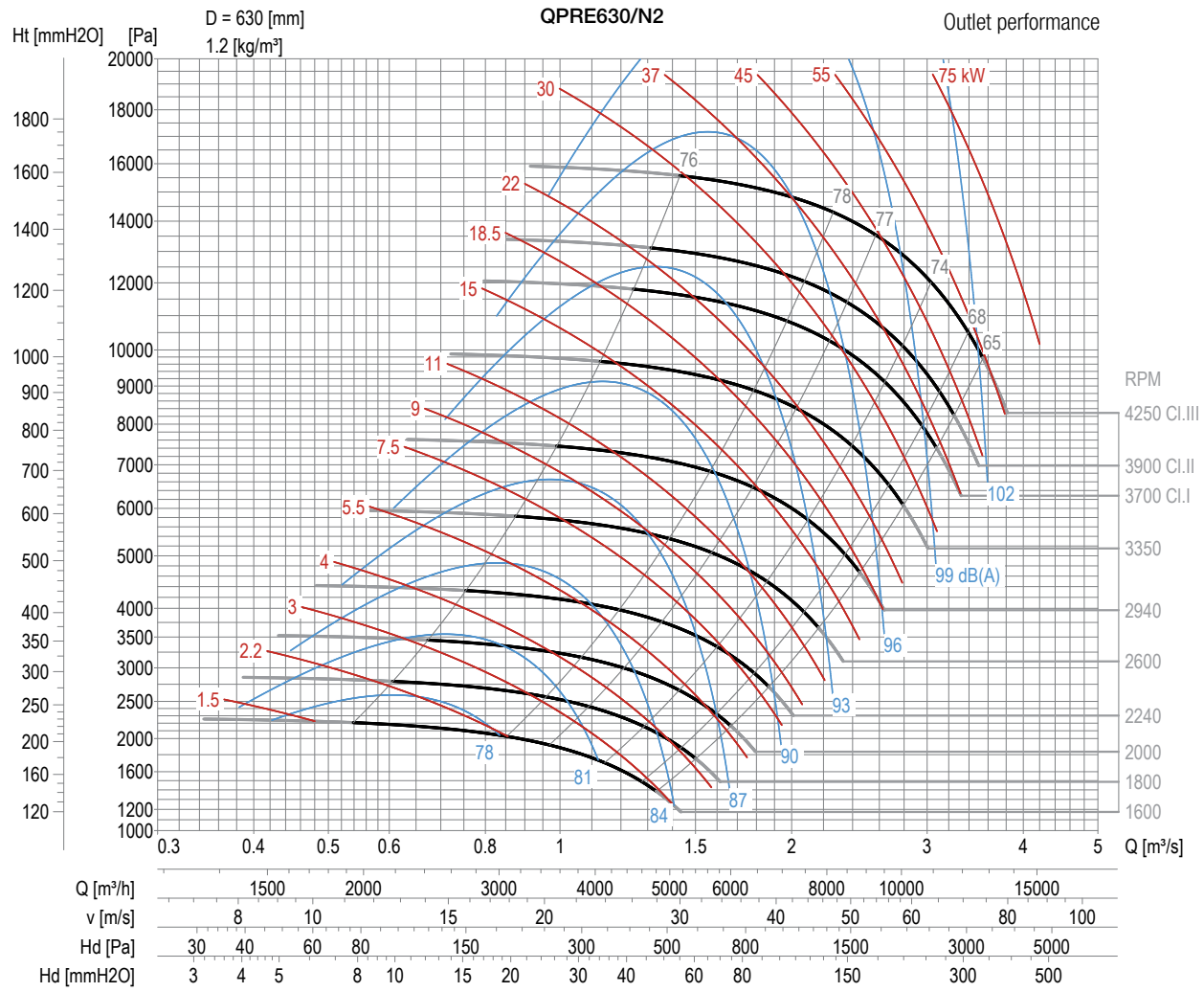


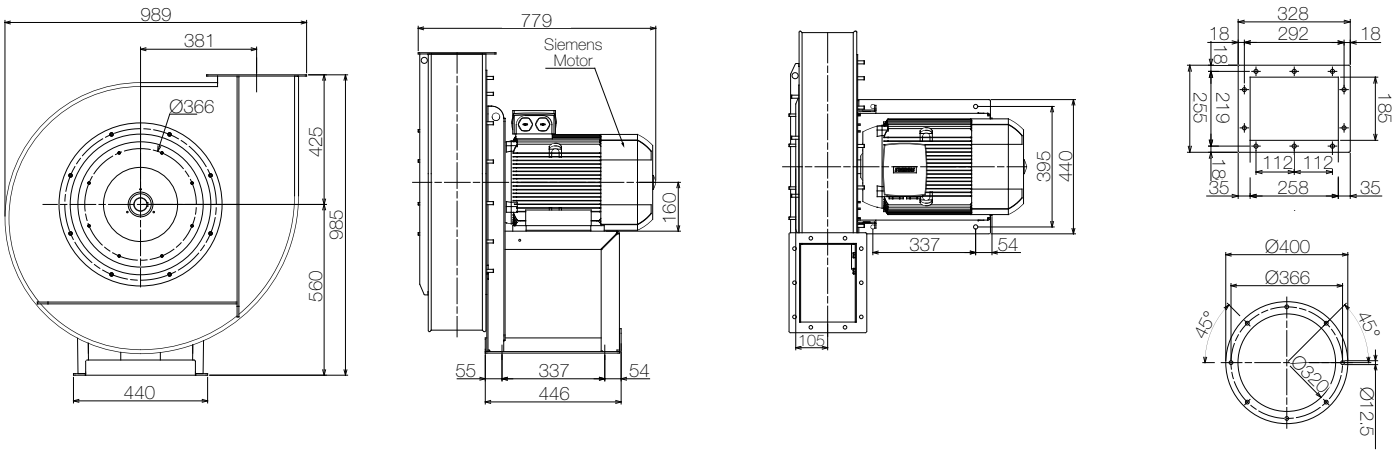


QPRE

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
QPRE630R/N2 (esec.4)	-	2	160	15	-	-	-	-	-	7200	4,40	76
QPRE630/N2 (esec.4)	-	2	160	18,50	-	-	-	-	-	7920	4,80	76





QPRE630/N2