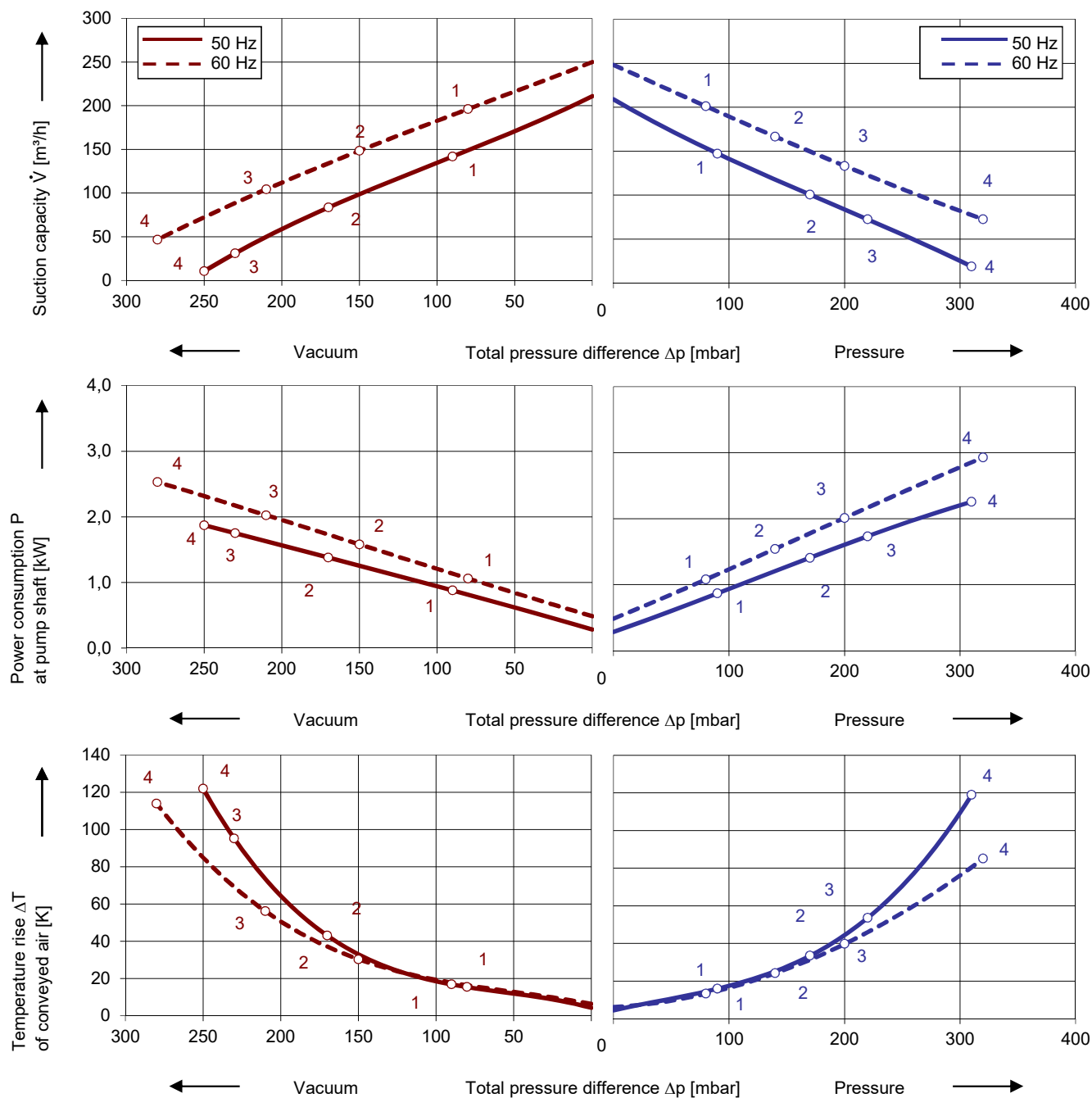


Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All Greenco blowers can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type 2RB 510

No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pres. Level ³⁾	Efficiency class ⁴⁾	Weight approx.	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
		Hz	V	A	kW	mbar				
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	190-210△	4.15 △	0,95	-90	90	59	IE3	24	2RB 510-1AP01
	60	190-210 YY / 380-420 Y	4.8 YY / 2.4Y	1,1	-80	80	65	IE3		
2	50	190-210△	5.6 △	1,3	-170	170	64	IE3	26	2RB 510-1AP11
	60	190-210 YY / 380-420 Y	6.3YY / 3.15Y	1,6	-150	140	60	IE3		
3	50	190-210△	6.9 △	1,75	-230	220	64	IE3	30	2RB 510-1AP21
	60	190-210 YY / 380-420 Y	7.8YY / 3.9 Y	2,0	-210	200	72	IE3		
4	50	190-210△	9.9 △	2,5	-250	310	64	IE3	34	2RB 510-1AP31
	60	190-210 YY / 380-420 Y	10.4YY / 5.2 Y	3,0	-280	320	72	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240 △ / 380-420 Y	3.65△/ 2.1Y	0,95	-90	90	59	IE3	24	2RB 510-1AP06
	60	220-240 YY / 440-480 Y	4.2YY/ 2.1Y	1,1	-80	80	65	IE3		
2	50	220-240 △ / 380-420 Y	4.9 △/ 2.85Y	1,3	-170	170	64	IE3	26	2RB 510-1AP16
	60	220-240 YY / 440-480 Y	5.5 YY/ 2.75 Y	1,6	-150	140	60	IE3		
3	50	220-240 △ / 380-420 Y	6.0 △/ 3.45Y	1,75	-230	220	64	IE3	30	2RB 510-1AP26
	60	220-240 YY / 440-480 Y	6.8YY/ 3.4 Y	2,0	-210	200	72	IE3		
4	50	220-240 △ / 380-420 Y	8.6 △/ 5.0Y	2,5	-250	310	64	IE3	34	2RB 510-1AP36
	60	220-240 YY / 440-480 Y	10.4YY/ 5.2Y	3,0	-280	320	72	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	475-525 Y	1.68 Y	0,95	-90	90	59	IE3	24	2RB 510-1AQ03
	60	550-600 Y	1.68 Y	1,1	-80	80	65	IE3		
2	50	475-525 Y	2.28 Y	1,3	-170	170	64	IE3	26	2RB 510-1AQ13
	60	550-600 Y	2.2 Y	1,6	-150	140	60	IE3		
3	50	475-525 Y	2.76 Y	1,75	-230	220	64	IE3	30	2RB 510-1AQ23
	60	550-600 Y	2.72 Y	2,0	-210	200	72	IE3		
4	50	475-525 Y	4.0 Y	2,5	-250	310	64	IE3	34	2RB 510-1AQ33
	60	550-600 Y	4.1Y	3,0	-280	320	72	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240 △ / 380-420 Y	3.65△/ 2.1Y	0,95	-90	90	59	IE3	24	2RB 510-1AQ06
	60	440-480 Y	2.1Y	1,1	-80	80	65	IE3		
2	50	220-240 △ / 380-420 Y	4.9 △/ 2.85Y	1,3	-170	170	64	IE3	26	2RB 510-1AQ16
	60	440-480 Y	2.75 Y	1,6	-150	140	60	IE3		
3	50	220-240 △ / 380-420 Y	6.0 △/ 3.45Y	1,75	-230	220	64	IE3	30	2RB 510-1AQ26
	60	440-480 Y	3.4 Y	2,0	-210	200	72	IE3		
4	50	220-240 △ / 380-420 Y	8.6 △/ 5.0Y	2,5	-250	310	64	IE3	34	2RB 510-1AQ36
	60	440-480 Y	5.2Y	3,0	-280	320	72	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).
- 4) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

All 2RB blowers match the 2006/42/EC (machinery) and 2014/35/EU (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Service factor (SF) and motor efficiency according NEMA MG1-12.

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

Motor for alternate voltages										
Voltage range						Efficiency η	60 Hz	2RB ...-1. □ . □		
50 Hz			60Hz					P	Q	1
3~										
200 VΔ			200 V YY / 230 VΔ / 400 VY				•		P	1
190-210 VΔ			190-210 VYY / 220-240 VΔ / 380-420VY							
200 V YY / 230 VΔ / 400 VY			230 V YY / 460 VY				•		P	6
190-210 VYY / 220-240 VΔ / 380-420VY			220-240 VYY / 440-480VY							
475-525 V Y			550-600 V Y				•		Q	3
475-525 VΔ			550-600 VΔ				•		Q	5
220-240 VΔ / 380-420 V Y			440-480VY				•		Q	6
400 VΔ / 690 V Y			460 VΔ				•		Q	7

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given does not constitute an obligation from our side to deliver as shown

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