

Data sheet 3RB 550-1

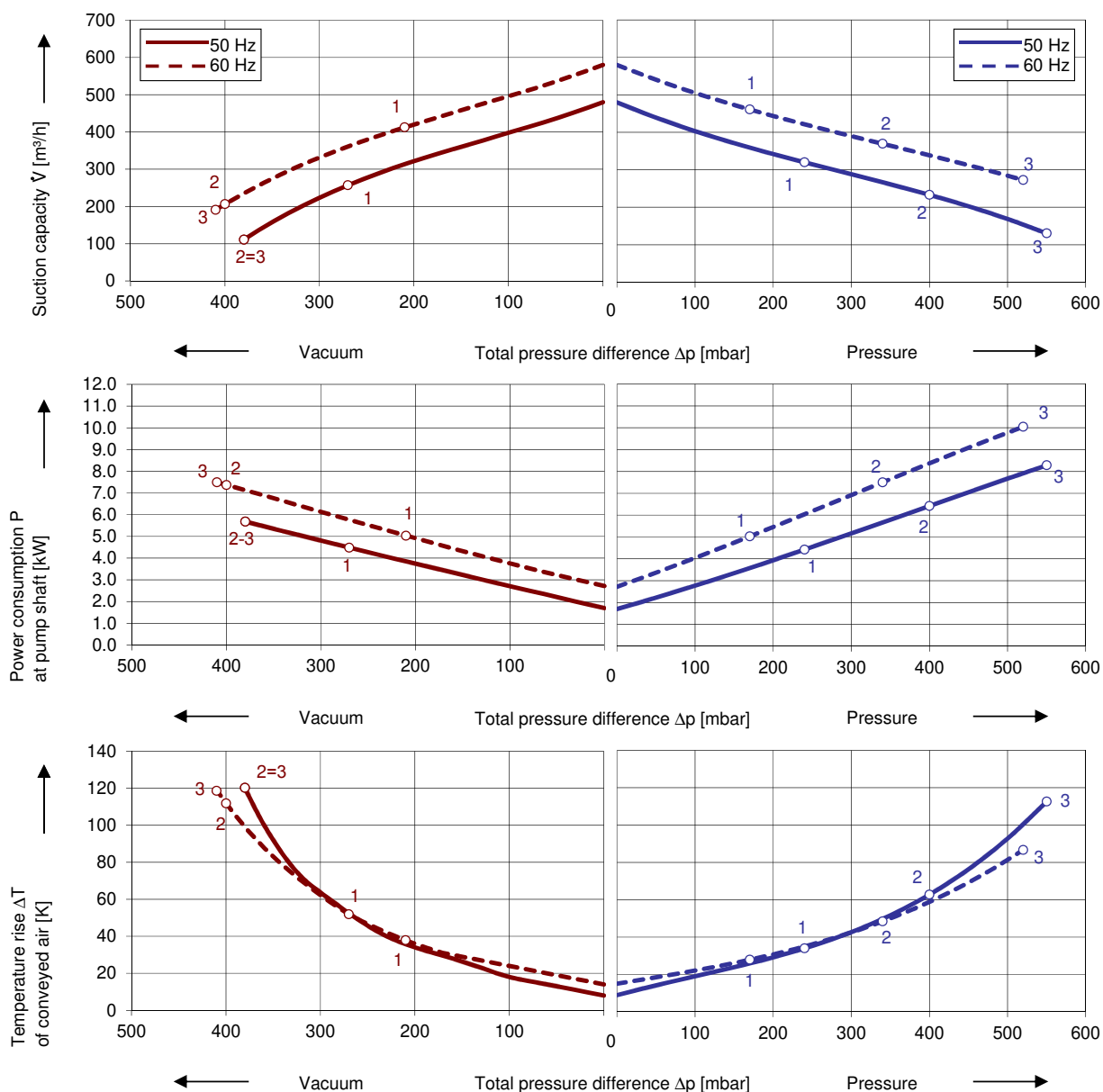
Side channel blower with IE3-motors



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 3RB 550-1

No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pr. level ³⁾	Efficiency 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(UL certificate number E481218)										
1	50	190-210 Δ	17,1 Δ	4.6	-270	240	67	IE3	92	3RB 550-1AAP31
	60	190-210 YY / 380-420 Y	19,6 YY/ 9,8 Y	5.3	-210	170	71	IE3		
2	50	190-210 Δ	23,5 Δ	6.3	-380	400	70	IE3	98	3RB 550-1AAP41
	60	190-210 YY / 380-420 Y	27,6 YY/ 13,8 Y	7.3	-400	340	75	IE3		
3	50	190-210 Δ	30,8 Δ	8.6	-380	550	70	IE3	104	3RB 550-1AAP51
	60	190-210 YY / 380-420 Y	35,2 YY/ 17,6 Y	9.9	-410	520	75	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	220-240 Δ/ 380-420 Y	14,9 Δ/ 8,6 Y	4.6	-270	240	67	IE3	92	3RB 550-1AAP36
	60	220-240 YY / 440-480 Y	17,0 YY/ 8,5Y	5.3	-210	170	71	IE3		
2	50	220-240 Δ/ 380-420 Y	20,4 Δ/ 11,8 Y	6.3	-380	400	70	IE3	98	3RB 550-1AAP46
	60	220-240 YY / 440-480 Y	24,0 YY/ 12,0Y	7.3	-400	340	75	IE3		
3	50	220-240 Δ/ 380-420 Y	26,8 Δ/ 15,5 Y	8.6	-380	550	70	IE3	104	3RB 550-1AAP56
	60	220-240 YY / 440-480 Y	30,6 YY/ 15,3Y	9.9	-410	520	75	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	380-420 Δ/ 660-725 Y	8,6 Δ/ 5,0 Y	4.6	-270	240	67	IE3	92	3RB 550-1AAQ37
	60	440-480 Δ	8,5 Δ	5.3	-210	170	71	IE3		
2	50	380-420 Δ/ 660-725 Y	11,8 Δ/ 6,8Y	6.3	-380	400	70	IE3	98	3RB 550-1AAQ47
	60	440-480 Δ	12,0 Δ	7.3	-400	340	75	IE3		
3	50	380-420 Δ/ 660-725 Y	15,5 Δ/ 8,9 Y	8.6	-380	550	70	IE3	104	3RB 550-1AAQ57
	60	440-480 Δ	15,3 Δ	9.9	-410	520	75	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	220-240 Δ/ 380-420 Y	14,9 Δ/ 8,6 Y	4.6	-270	240	67	IE3	92	3RB 550-1AAQ36
	60	440-480 Y	8,5 Y	5.3	-210	170	71	IE3		
2	50	220-240 Δ/ 380-420 Y	20,4 Δ/ 11,8Y	6.3	-380	400	70	IE3	98	3RB 550-1AAQ46
	60	440-480 Y	12,0 Y	7.3	-400	340	75	IE3		
3	50	220-240 Δ/ 380-420 Y	26,8 Δ/ 15,5 Y	8.6	-380	550	70	IE3	104	3RB 550-1AAQ56
	60	440-480 Y	15,3 Y	9.9	-410	520	75	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.
- 5) Klaxon recommended for motor overload protection. Ordering example: 2RB 310-□□□□-Z

All Greenco 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				
50 Hz	60Hz		60 Hz	2 RB ...-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					
190-210 VΔ	220-240 VΔ / 380-420VY		•		Q	1
475-525 V Y	550-600 V Y				Q	3
475-525 VΔ	550-600 VΔ		•		Q	5
220-240 VΔ / 380-420VY	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