

Data sheet 3RB 550-2

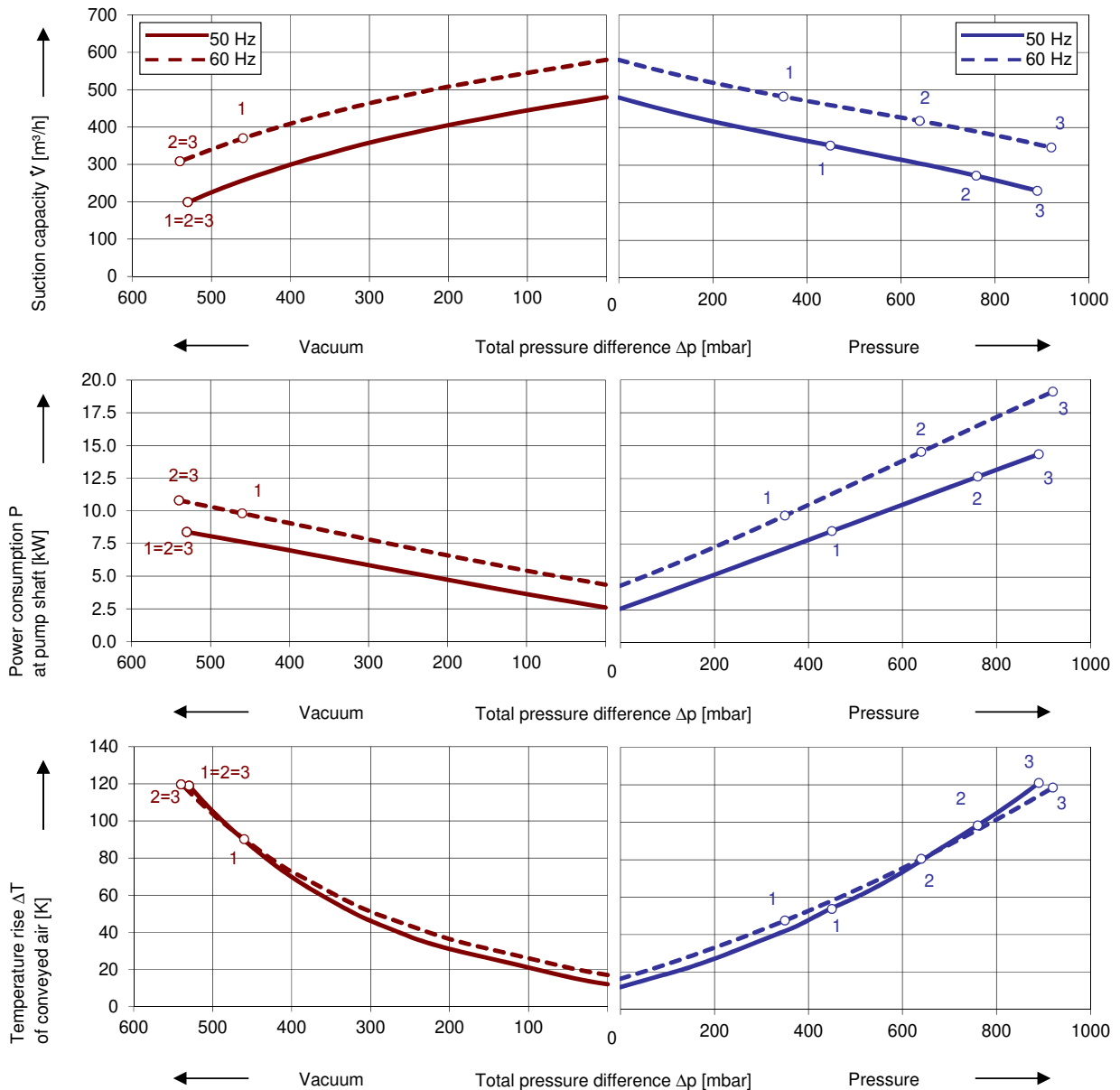
Side channel blower with IE3-motors



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 ± 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 550-2										
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		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	190-210 △	30,8 △	8,6	-530	450	70	IE3	159	3RB 550-2AAP51
	60	190-210 YY / 380-420 Y	35,2 YY/ 17,6 Y	9,9	-460	350	75	IE3		
2	50	190-210 △	46,4 △	12,6	-530	760	70	IE3	175	3RB 550-2AAP61
	60	190-210 YY / 380-420 Y	52,8YY/ 26,4 Y	14,5	-540	640	75	IE3		
3	50	190-210 △	63,0 △	17,3	-530	890	70	IE3	185	3RB 550-2AAP71
	60	190-210 YY / 380-420 Y	72,2 YY/ 36,1 Y	19,9	-540	920	75	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	220-240 △/ 380-420 Y	26,8 △/ 15,5 Y	8,6	-530	450	70	IE3	159	3RB 550-2AAP56
	60	220-240 YY / 440-480 Y	30,6 YY/ 15,3Y	9,9	-460	350	75	IE3		
2	50	220-240 △/ 380-420 Y	40,3 △/ 23,3Y	12,6	-530	760	70	IE3	175	3RB 550-2AAP66
	60	220-240 YY / 440-480 Y	46,0 YY/ 23,0Y	14,5	-540	640	75	IE3		
3	50	220-240 △/ 380-420 Y	54,9 △/ 31,7 Y	17,3	-530	890	70	IE3	185	3RB 550-2AAP76
	60	220-240 YY / 440-480 Y	62,8 YY/ 31,4Y	19,9	-540	920	75	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	380-420 △/ 660-725 Y	15,5 △/ 8,9 Y	8,6	-530	450	70	IE3	159	3RB 550-2AAQ57
	60	440-480 △	15,3 △	9,9	-460	350	75	IE3		
2	50	380-420 △/ 660-725 Y	23,3 △/ 13,4Y	12,6	-530	760	70	IE3	175	3RB 550-2AAQ67
	60	440-480 △	23,0 △	14,5	-540	640	75	IE3		
3	50	380-420 △/ 660-725 Y	31,7 △/ 18,3 Y	17,3	-530	890	70	IE3	185	3RB 550-2AAQ77
	60	440-480 △	31,4 △	19,9	-540	920	75	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	220-240 △/ 380-420 Y	26,8 △/ 15,5 Y	8,6	-530	450	70	IE3	159	3RB 550-2AAQ56
	60	440-480 Y	15,3 Y	9,9	-460	350	75	IE3		
2	50	220-240 △/ 380-420 Y	40,3 △/ 23,3 Y	12,6	-530	760	70	IE3	175	3RB 550-2AAQ66
	60	440-480 Y	23,0 Y	14,5	-540	640	75	IE3		
3	50	220-240 △/ 380-420 Y	54,9 △/ 31,7 Y	17,3	-530	890	70	IE3	185	3RB 550-2AAQ76
	60	440-480 Y	31,4 Y	19,9	-540	920	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) Klixon 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