

Data sheet 2RB 830

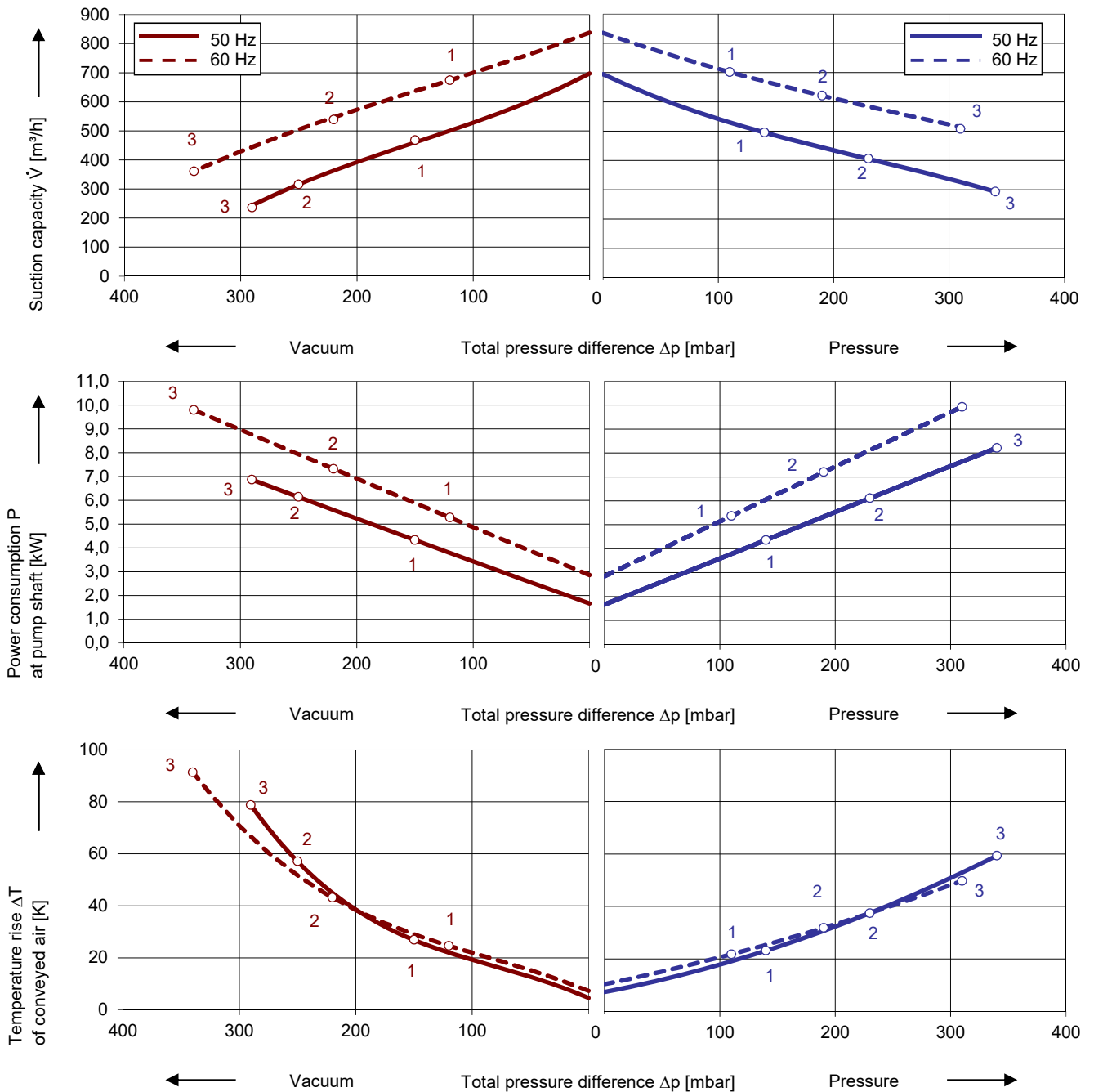
Side channel blower with IE3-motors



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 2RB 830										
No.	Fre- quency Hz	Rated			Max. differential pressure ²⁾		Sound pres. ³⁾ Level dB(A)	Efficiency class ⁴⁾	Weight approx. kg	Order No.
		Voltage ¹⁾ V	Current A	Power kW	Vacuum mbar	Pressure				
IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)										
1	50	190-210 Δ	17,1 Δ	4,6	-150	140	77	IE3	62	2RB 830-1AP01
	60	190-210 YY / 380-420 Y	19,6 YY/ 9,8 Y	5,3	-120	110	79	IE3		
2	50	190-210 Δ	23,5 Δ	6,3	-250	230	78	IE3	75	2RB 830-1AP11
	60	190-210 YY / 380-420 Y	27,6 YY/ 13,8 Y	7,3	-220	190	80	IE3		
3	50	190-210 Δ	30,8 Δ	8,6	-290	340	79	IE3	80	2RB 830-1AP21
	60	190-210 YY / 380-420 Y	35,2YY/ 17,6 Y	9,9	-340	310	81	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	-150	140	77	IE3	62	2RB 830-1AP06
	60	220-240 YY / 440-480 Y	17,0 Δ/ 8,5Y	5,3	-120	110	79	IE3		
2	50	220-240 Δ / 380-420 Y	20,4 Δ/11,8 Y	6,3	-250	230	78	IE3	75	2RB 830-1AP16
	60	220-240 YY / 440-480 Y	24,0 Δ/ 12,0Y	7,3	-220	190	80	IE3		
3	50	220-240 Δ / 380-420 Y	26,8 Δ/ 15,5 Y	8,6	-290	340	79	IE3	80	2RB 830-1AP26
	60	220-240 YY / 440-480 Y	30,6 Δ/ 15,3Y	9,9	-340	310	81	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	-150	140	77	IE3	62	2RB 830-1AQ07
	60	440-480 Δ	8,5 Δ	5,3	-120	110	79	IE3		
2	50	380-420 Δ / 660-725 Y	11,8 Δ/ 6,8 Y	6,3	-250	230	78	IE3	75	2RB 830-1AQ17
	60	440-480 Δ	11,6 Δ	7,3	-220	190	80	IE3		
3	50	380-420 Δ / 660-725 Y	15,5 Δ/ 8,9 Y	8,6	-290	340	79	IE3	80	2RB 830-1AQ27
	60	440-480 Δ	15,3 Δ	9,9	-340	310	81	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	-150	140	77	IE3	62	2RB 830-1AQ06
	60	440-480 Y	8,5 Y	5,3	-120	110	79	IE3		
2	50	220-240 Δ / 380-420 Y	20,4 Δ/ 11,8 Y	6,3	-250	230	78	IE3	75	2RB 830-1AQ16
	60	440-480 Y	12,0 Y	7,3	-220	190	80	IE3		
3	50	220-240 Δ / 380-420 Y	26,8 Δ/ 15,5 Y	8,6	-290	340	79	IE3	80	2RB 830-1AQ26
	60	440-480 Y	15,3 Y	9,9	-340	310	81	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 710-□□□□-Z

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.

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