

Data sheet 4RB 320

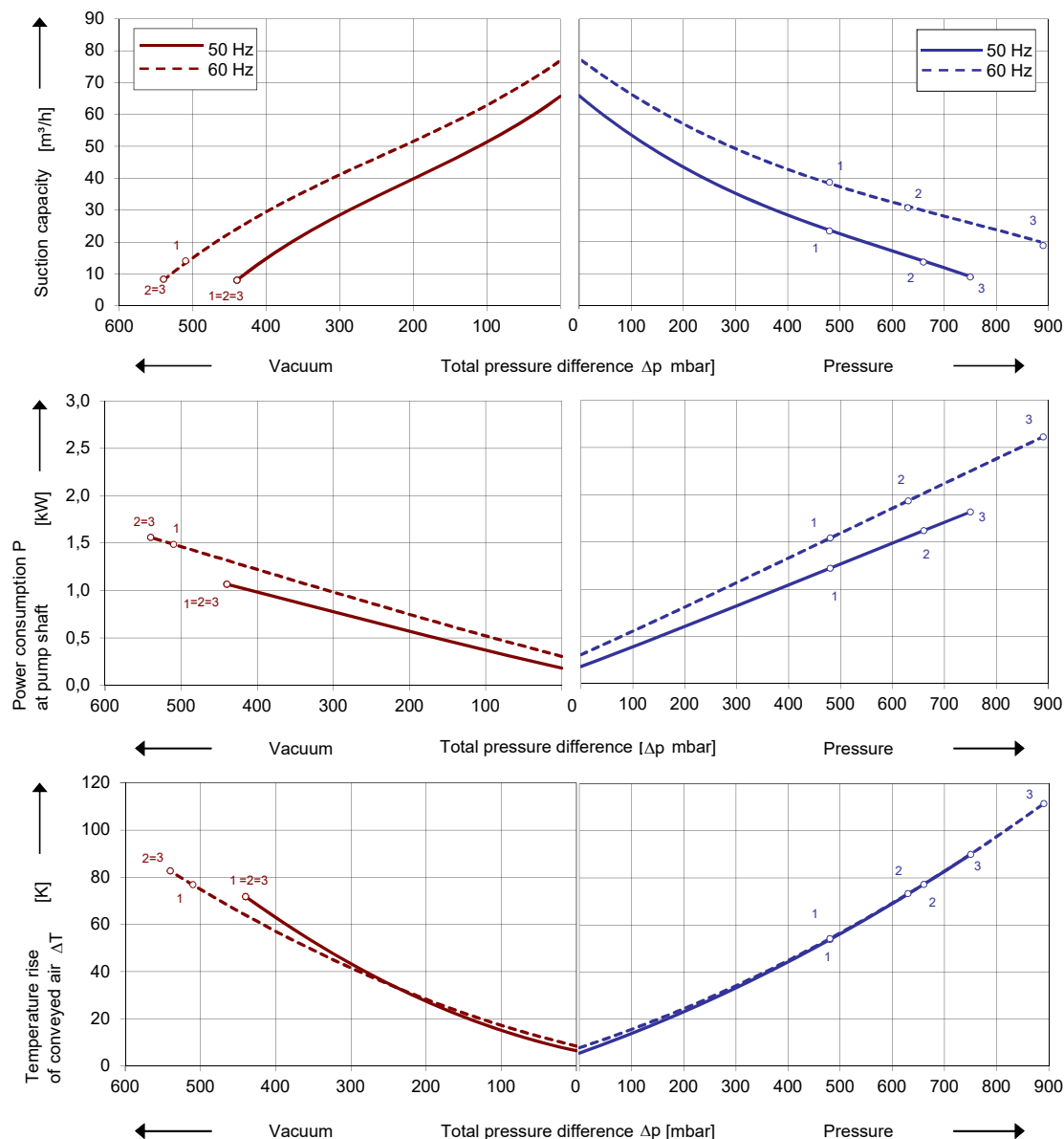
Side channel blower with IE3-motors



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.

Every 4RB pump 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 4RB 320										
No.	Fre- quency Hz	Rated			Max. differential pressure 2)		Sound pressure level 3) dB(A)	Efficiency 0	Weight Approx. kg	Order No.
		Voltage 1)	Current	Power	Vacuum	Pressure				
		V	A	kW	mbar					
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	190-210△	5,6△	1,3	-440	480	60	IE3	33	4RB 320-0AP41-1
	60	190-210YY / 380-420 Y	6,3 YY/ 3,2 Y	1,6	-510	480	64	IE3		
2	50	190-210△	6,9△	1,75	-440	660	63	IE3	36	4RB 320-0AP51-1
	60	190-210YY / 380-420 Y	7,8 YY/ 3,9 Y	2,0	-540	630	67	IE3		
3	50	190-210△	9,9△	2,5	-440	750	63	IE3	41	4RB 320-0AP61-1
	60	190-210YY / 380-420 Y	12,0 YY/ 6,0 Y	3,0	-540	890	67	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	220-240△ / 380-420 Y	4,9△/ 2,9 Y	1,3	-440	480	60	IE3	33	4RB 320-0AP46-1
	60	220-240YY / 440-480 Y	5,5 YY/ 2,8 Y	1,6	-510	480	64	IE3		
2	50	220-240△ / 380-420 Y	6,0△/ 3,5 Y	1,75	-440	660	63	IE3	36	4RB 320-0AP56-1
	60	220-240YY / 440-480 Y	6,8 YY/ 3,4 Y	2,0	-540	630	67	IE3		
3	50	220-240△ / 380-420 Y	8,6△/ 5,0Y	2,5	-440	750	63	IE3	41	4RB 320-0AP66-1
	60	220-240YY / 440-480 Y	10,4 YY/ 5,2 Y	3,0	-540	890	67	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	380-420△ / 660-725 Y	2,9△/ 1,7 Y	1,3	-440	480	60	IE3	33	4RB 320-0AQ47-1
	60	440-480△	2,8 △	1,6	-510	480	64	IE3		
2	50	380-420△ / 660-725 Y	3,5△/ 2,0 Y	1,75	-440	660	63	IE3	36	4RB 320-0AQ57-1
	60	440-480△	3,4 △	2,0	-540	630	67	IE3		
3	50	380-420△ / 660-725 Y	5,0 △/ 2,9 Y	2,5	-440	750	63	IE3	41	4RB 320-0AQ67-1
	60	440-480△	5,2 △	3,0	-540	890	67	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)										
1	50	220-240△ / 380-420 Y	4,9△/ 2,9 Y	1,3	-440	480	60	IE3	33	4RB 320-0AQ46-1
	60	440-480 Y	2,8 Y	1,6	-510	480	64	IE3		
2	50	220-240△ / 380-420 Y	6,0△/ 3,5 Y	1,75	-440	660	63	IE3	36	4RB 320-0AQ56-1
	60	440-480 Y	3,4 Y	2,0	-540	630	67	IE3		
3	50	220-240△ / 380-420 Y	8,6△/ 5,0Y	2,5	-440	750	63	IE3	41	4RB 320-0AQ66-1
	60	440-480 Y	5,2 Y	3,0	-540	890	67	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 4RB 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	4RB ...-0.		
3~									
200 VΔ		200 V YY / 230 VΔ / 400 VY			•			P	
190-210 VΔ		190-210 VYY / 220-240 VΔ / 380-420VY							
200 V YY / 230 VΔ / 400 VY		230 V YY / 460 VY			•			P	
190-210 VYY / 220-240 VΔ / 380-420VY		220-240 VYY / 250-280V Δ/440-480VY							
475-525 V Y		550-600 V Y			•			Q	
475-525 VΔ		550-600 VΔ							
220-240Δ / 380-420 Y		440-480 Y			•			Q	
380-420Δ / 660-725 Y		440-480 VΔ							

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