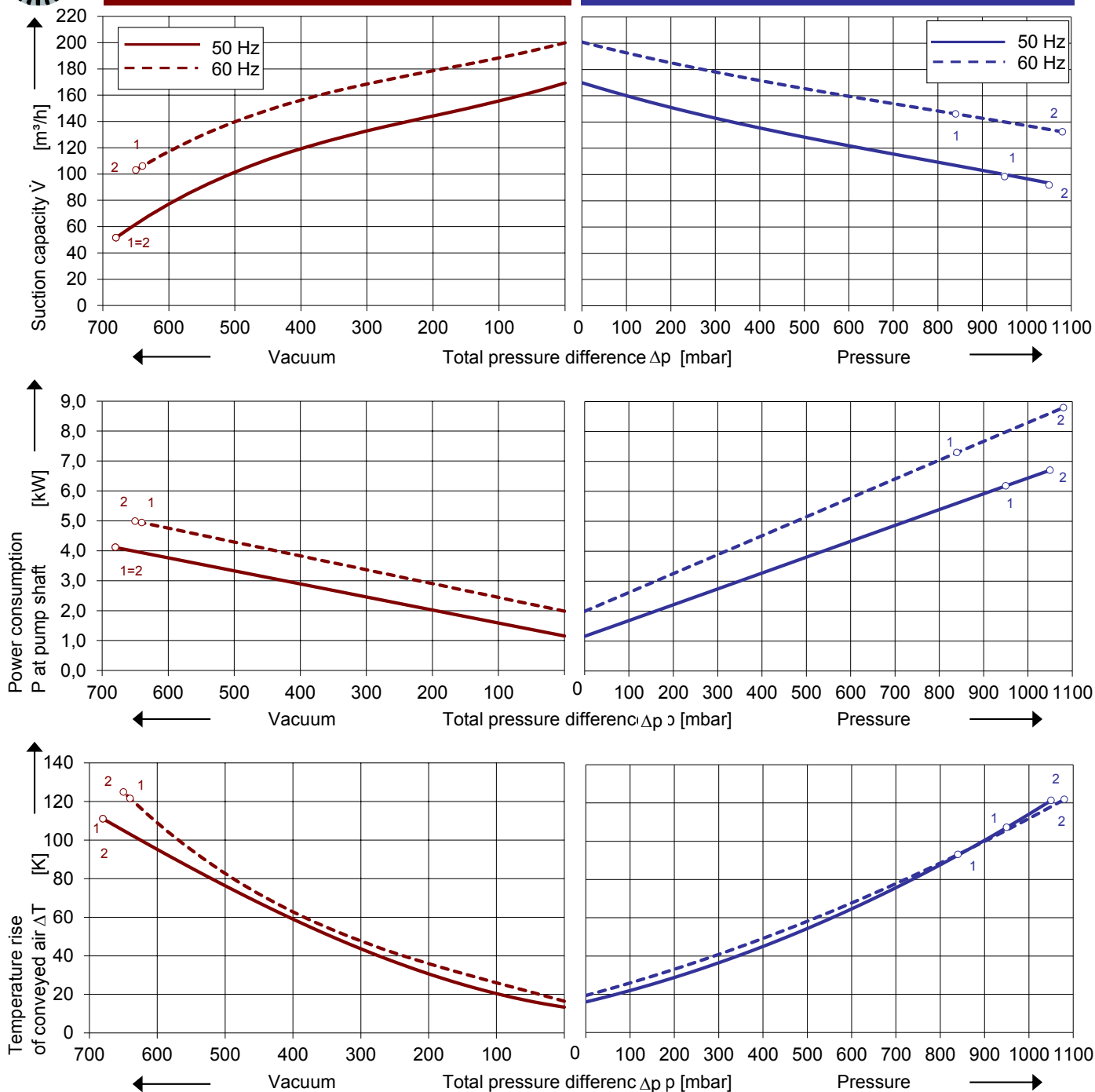


Performance curves

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.

Every 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 4RB 630

No.	Fre- quency Hz	Rated			Max. differential pressure ²⁾		Sound pressure level ³⁾ dB(A)	Efficiency ⁴⁾	Weight Approx. kg	Order No.
		Voltage ¹⁾ V	Current A	Power kW	Vacuum	Pressure				
					mbar					
IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)										
1	50	190-210 Δ	23,5 Δ	6,3	-680	950	64	IE3	89	4RB 630-0AP51-1
	60	190-210 YY / 380-420 Y	27,6 YY / 13,8 Y	7,3	-640	840	66	IE3		
2	50	190-210 Δ	30,8 Δ	8,6	-680	1050	64	IE3	101	4RB 630-0AP61-1
	60	190-210 YY / 380-420 Y	35,2 YY / 17,6 Y	9,9	-650	1080	66	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)										
1	50	220-240 Δ / 380-420 Y	20,4 Δ / 11,8 Y	6,3	-680	950	64	IE3	89	4RB 630-0AP56-1
	60	220-240 YY / 440-480 Y	24,0 YY / 12,0 Y	7,3	-640	840	66	IE3		
2	50	220-240 Δ / 380-420 Y	26,8 Δ / 15,5 Y	8,6	-680	1050	64	IE3	101	4RB 630-0AP66-1
	60	220-240 YY / 440-480 Y	30,6 YY / 15,3 Y	9,9	-650	1080	66	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)										
1	50	380-420 Δ / 660-725 Y	11,8 Δ / 6,8 Y	6,3	-680	950	64	IE3	89	4RB 630-0AQ57-1
	60	440-480 Δ	12,0 Δ	7,3	-640	840	66	IE3		
2	50	380-420 Δ / 660-725 Y	15,5 Δ / 8,9 Y	8,6	-680	1050	64	IE3	101	4RB 630-0AQ67-1
	60	440-480 Δ	15,3 Δ	9,9	-650	1080	66	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)										
1	50	220-240 Δ / 380-420 Y	20,4 Δ / 11,8 Y	6,3	-680	950	64	IE3	89	4RB 630-0AQ56-1
	60	440-480 Y	12,0 Y	7,3	-640	840	66	IE3		
2	50	220-240 Δ / 380-420 Y	26,8 Δ / 15,5 Y	8,6	-680	1050	64	IE3	101	4RB 630-0AQ66-1
	60	440-480 Y	15,3 Y	9,9	-650	1080	66	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 pumps 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

		Efficiency ⁴⁾			
50 Hz		60Hz		60 Hz	4RB ... - □ . □ -1
3~	1)	2)		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		IE3	
	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		IE3	
	475-525 V Y	550-600 V Y			Q 3
	475-525 V Δ	550-600 V Δ			
	220-240 V Δ / 380-420VY	440-480VY		IE3	Q 6
	400 V Δ / 690 V Y	460 V Δ			

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