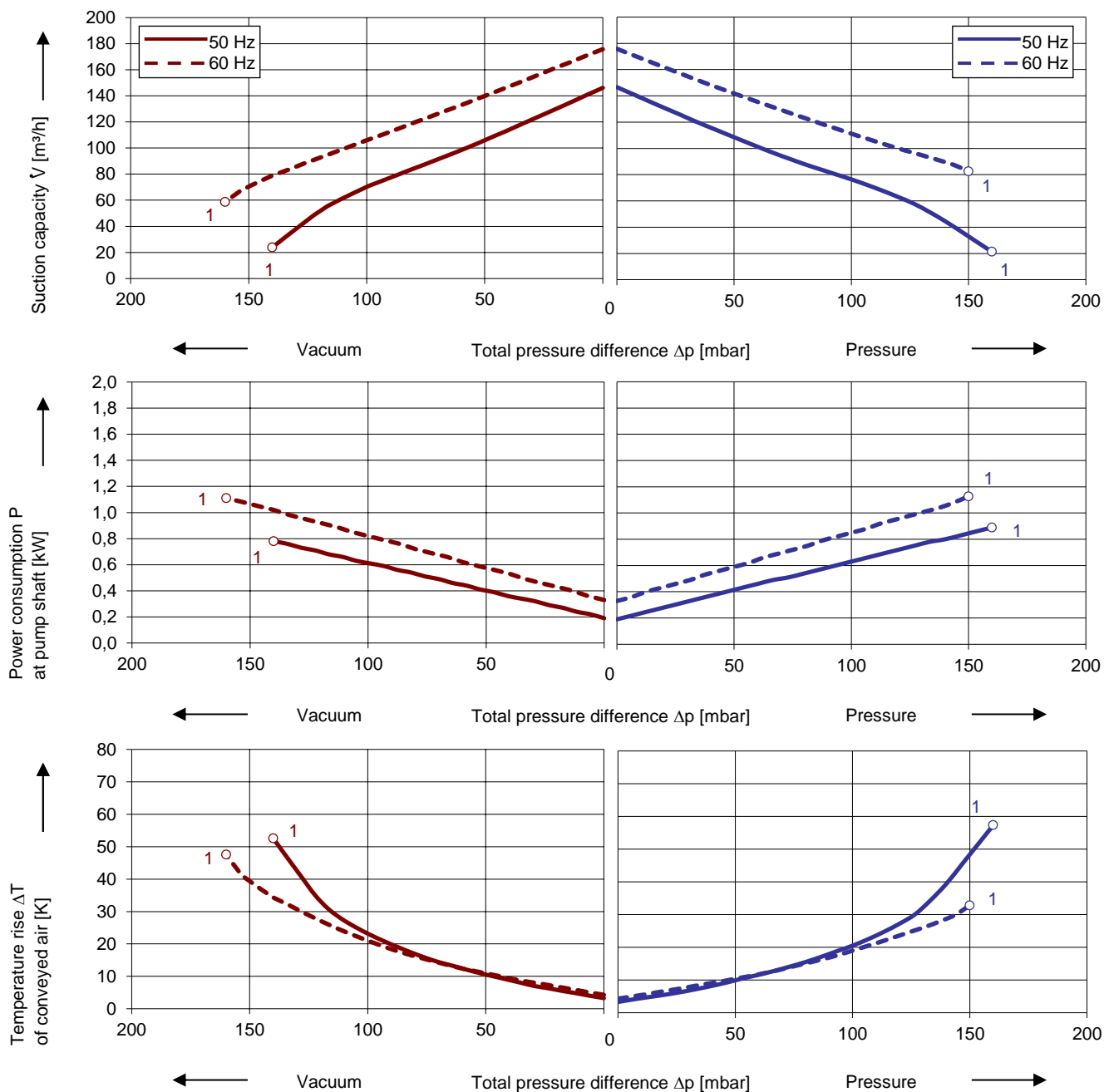


### Performance curves

#### 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 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 2RB 490

No.	Fre- quency Hz	Rated			Max. differential pressure <sup>2)</sup>		Sound pres. Level <sup>3)</sup> dB(A)	Efficiency class <sup>4)</sup>	Weight approx. kg	Order No.
		Voltage <sup>1)</sup> V	Current A	Power kW	Vacuum	Pressure				
					mbar					
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)</b>										
1	50	190-210 Δ	4.15 Δ	0,95	-140	160	61	IE3	19	2RB 490-1AP11
	60	190-210 YY/380-420Y	4.8 YY/2.4 Y	1,10	-160	150	64	IE3		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)</b>										
1	50	220-240 Δ / 380-420Y	3.65 Δ / 2.1 Y	0,95	-140	160	61	IE3	19	2RB 490-1AP16
	60	220-240 YY / 440-480Y	4.2 YY / 2.1 Y	1,10	-160	150	64	IE3		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)</b>										
1	50	475-525 Y	1.68 Y	0,95	-140	160	61	IE3	19	2RB 490-1AQ13
	60	550-600Y	1.68 Y	1,10	-160	150	64	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)</b>										
1	50	380-420 Δ / 660-725Y	2.1 Δ / 1.2Y	0,95	-140	160	61	IE3	19	2RB 490-1AQ17
	60	440-480 Δ	2.1 Δ	1,10	-160	150	64	IE3		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F(UL certificate number E481218)</b>										
1	50	220-240 Δ / 380-420Y	3.65 Δ / 2.1 Y	0,95	-140	160	61	IE3	19	2RB 490-1AQ16
	60	440-480 Y	2.1 Y	1,10	-160	150	64	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 490-□□□□-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	60 Hz	2 RB ...-1. □ . □	
50 Hz	60Hz			□	□
<b>3~</b>					
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 / 380-420VY	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