

## L-BL2 N Data sheet 2BL2 101 Compact circuit vacuum pump

IE3



### General information

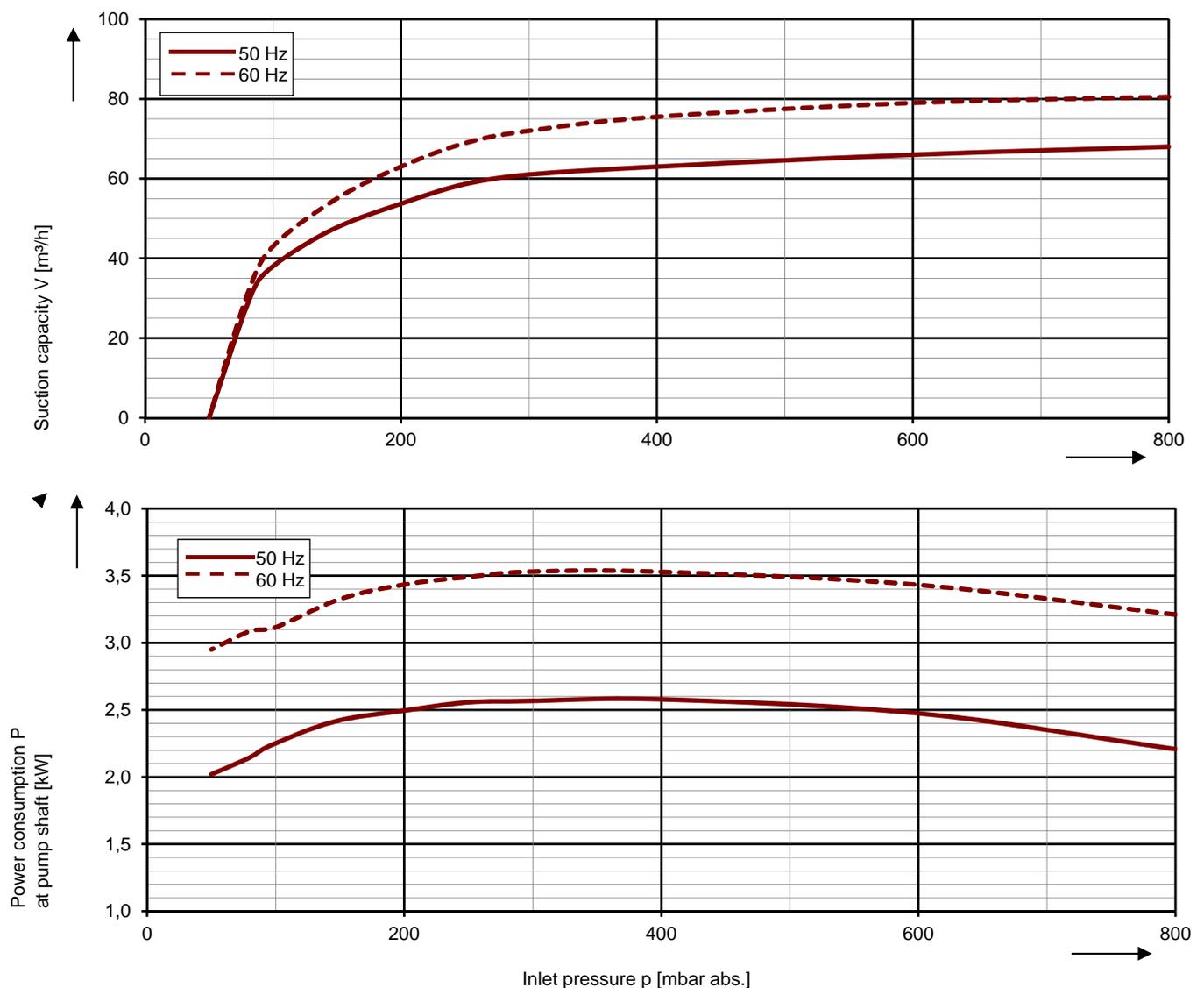
Elmo Rietschle vacuum pumps of the model range L-BL2 are Also known as the Elmo Rietschle "Pump in a Box", these portable units are oil free and air cooled. They include an L-BV liquid ring pump, industrial electric motor, discharge separator, seal water cooler and discharge air cooler. To install – simply connect the suction line and motor and fill the water tank – it's ready to go!

Maintenance and wear are minimal thanks to contact free compression and a built-in discharge air cooler. Additional features include: quiet operation, continuous duty design and suitability for humid environments.



### Performance curves

#### Vacuum operation



The characteristic curves are based on the evacuation of dry air and an intake temperature of 20 °C. At a suction pressure of 1013 mbar abs. (water as operating liquid) the characteristic curves will be achieved. The tolerance is ± 10 %.

The motors are supplied as standard for the input voltage ranges of 50 and 60 Hz and for the protection category IP55.

## Selection and ordering data

Typ 2BL2 101

Fre- quency	Rated			Service factor	Efficiency	Sound pressure level 2)	Weight Approx.	Order No.
	Voltage	Current	Power					
Hz	V	A	kW	SF	-	dB(A)	kg	
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>								
50	190-210 Δ	15,3 Δ	2,4	1,67	IE3	73	72	2BL2101-2 □ K50-1B
60	190-210 YY / 380-420 Y	17,4 YY / 8,7 Y	3,5	1,30	IE3	78		
	200 YY	14,0 YY	3,5	1,15	NP	78		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>								
50	220-240 Δ / 380-420 Y	13,3 Δ / 7,7 Y	2,4	1,67	IE3	73	72	2BL2101-2 □ K50-6B
60	220-240 YY / 440-480 Y	15,0 YY / 7,5 Y	3,5	1,30	IE3	78		
	230 YY / 460 Y	12,2 YY / 6,1 Y	3,5	1,30	NP	78		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>								
50	500 Y	6,0 Y	2,4	1,67	IE3	73	72	2BL2101-2 □ Q50-3B
60	575 Y	4,9 Y	3,5	1,15	NP	78		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>								
50	380-420 Δ / 660-725 Y	7,7 Δ / 4,45 Y	2,4	1,67	IE3	73	72	2BL2101-2 □ Q50-7B
60	440-480 Δ	7,5 Δ	3,5	1,30	IE3	78		
	460 Δ	6,1 Δ	3,5	1,15	NP	78		

### Materials

Cast iron (internal surface with ceramic coating)

A

- 2) 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).

## Other voltages

Voltage range		Efficiency	c  us	60 Hz	2BL2...-... □ ... □
50 Hz	60Hz				
<b>3~</b>					
200 VΔ	200 V YY / 230 VΔ / 400 VY		•		K 1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY		•		K 6
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY		•		K 6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY		•		K 6
475-525 V Y	550-600 V Y		•		Q 3
475-525 VΔ	550-600 VΔ		•		Q 5
400 VΔ / 690 V Y	460 VΔ		•		Q 7

All L-BL2 fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines". The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F. Voltage tolerances for three phase motors are +/-10%. The frequency tolerance is +/- 2 % maximum.



Denomination	A
Monobloc pump	
Lantern / Casing / Port Plate / Impeller	GG / SS / SS / Bronze
Internal piping (suction- and discharge side)	EPDM / Brass / Plastic
Water cooler / air-water cooler	Pipes in copper
Condensation cooler	Pipes in brass
Throttle sleeves / injection nozzle	Brass
Drain of seperator	Polyamide (PA)
Housing (2BL)	Polyethylen (PE)