

# L-BL2 N

## Data sheet 2BL2 061

### Compact circuit vacuum pump

**IE3**



#### General information

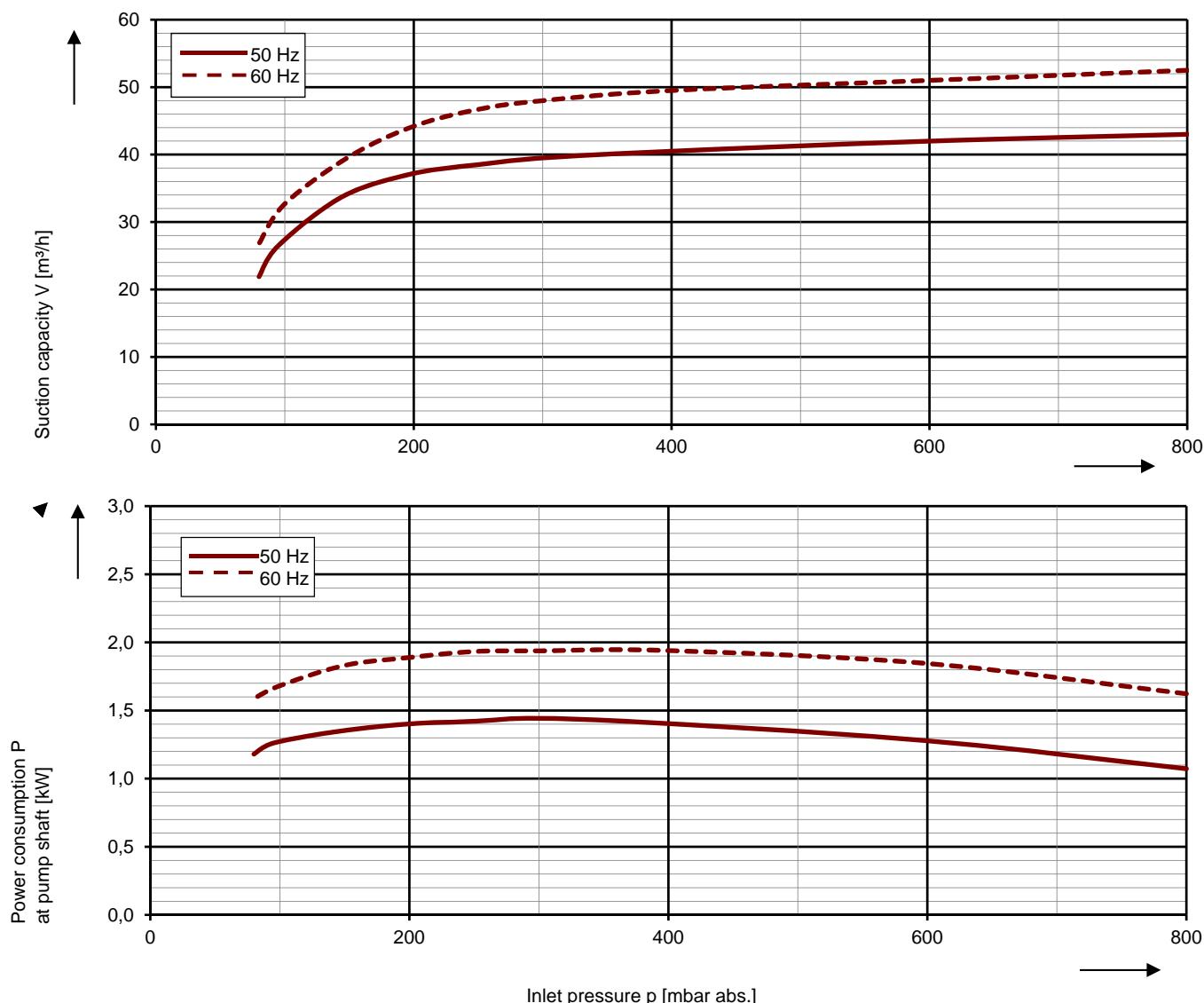
Elmo Rietschle vacuum pumps of the model range L-BL2 are also known as the Elmo Rietschle "Pump in a Box", these portable units are oil free and air cooled. They include an L-BV liquid ring pump, industrial electric motor, discharge separator, seal water cooler and discharge air cooler. To install – 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 061

Fre-quency	Rated			Service factor	Efficiency	Sound pressure level <sup>2)</sup>	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 $\Delta$	8,7 $\Delta$	1,4	1,57	IE3	69	64	<b>2BL2061-1 □ K50-1B</b>	
60	190-210 YY / 380-420 Y 200 YY	10,0 YY / 5,0 Y 8,4 YY	1,8 1,8	1,42 1,41	IE3 NP	73 73	64		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>									
50	220-240 $\Delta$ / 380-420 Y	7,5 $\Delta$ / 4,35 Y	1,4	1,57	IE3	69	64	<b>2BL2061-1 □ K50-6B</b>	
60	220-240 YY / 440-480 Y 230 YY / 460 Y	8,6 YY / 4,3 Y 7,3 YY / 3,65 Y	1,8 1,8	1,42 1,42	IE3 NP	73 73	64		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>									
50	500 Y	3,35 Y	1,4	1,57	IE3	69	64	<b>2BL2061-1 □ Q50-3B</b>	
60	575 Y	2,90 Y	1,8	1,41	NP	73	64		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>									
50	380-420 $\Delta$ / 660-725 Y	4,35 $\Delta$ / 2,50 Y	1,4	1,57	IE3	69	64	<b>2BL2061-1 □ Q50-7B</b>	
60	440-480 $\Delta$ 460 $\Delta$	4,30 $\Delta$ 3,65 $\Delta$	1,8 1,8	1,42 1,41	IE3 NP	73 73	64		
<b>Materials</b>									
Cast iron (internal surface with ceramic coating) A									

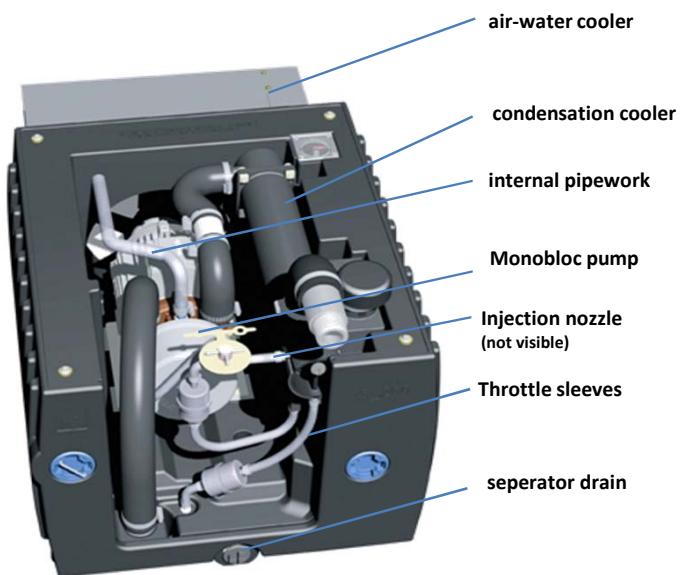
- 2) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance  $\pm 3$  dB (A).

## Other voltages

Voltage range		Efficiency	c <sup>TM</sup> us	60 Hz	2BL2...~... □ ... □
50 Hz	60Hz				
<b>3~</b>					
200 V $\Delta$	200 V YY / 230 V $\Delta$ / 400 VY	NEMA Premium	•	K	1
190-210 V $\Delta$	190-210 VYY / 220-240 V $\Delta$ / 380-420VY	IE3	•	K	6
200 V YY / 230 V $\Delta$ / 400 VY	230 V YY / 460 VY	NEMA Premium	•	K	6
190-210 VYY / 220-240 V $\Delta$ / 380-420VY	220-240 VYY / 440-480VY	IE3	•	Q	3
475-525 V Y	550-600 V Y	NEMA Premium	•	Q	5
475-525 V $\Delta$	550-600 V $\Delta$	NEMA Premium	•	Q	7
400 V $\Delta$ / 690 V Y	460 V $\Delta$	NEMA Premium	•	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.

## Materials



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)

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.