

L-BL2

Data sheet 2BL2 281

Compact circuit vacuum pump



General information

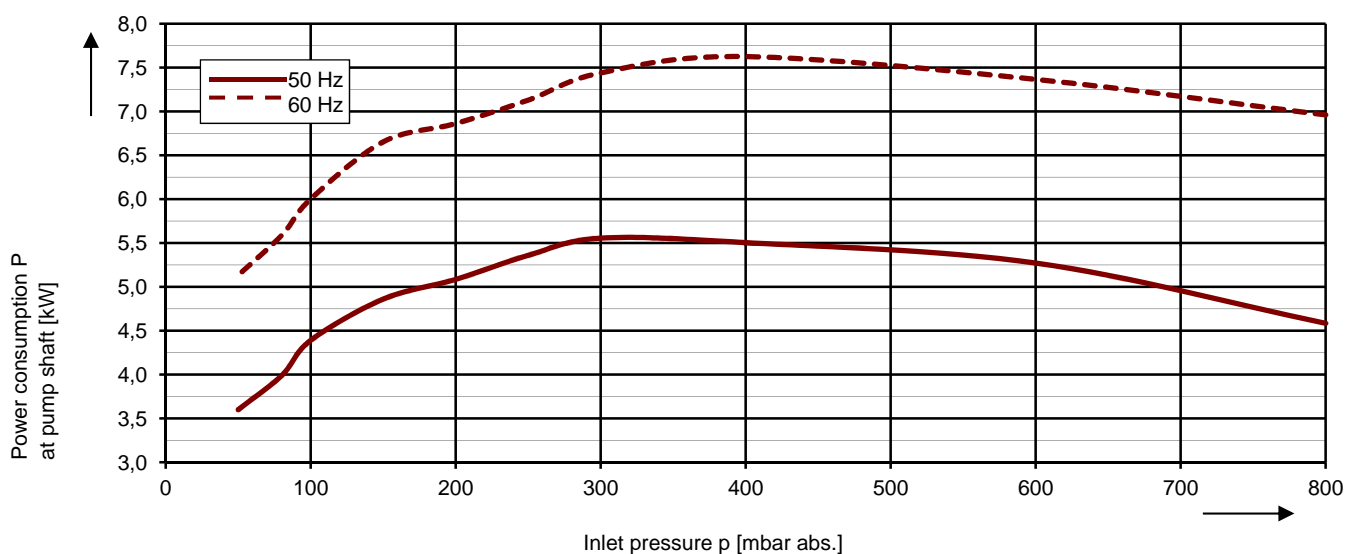
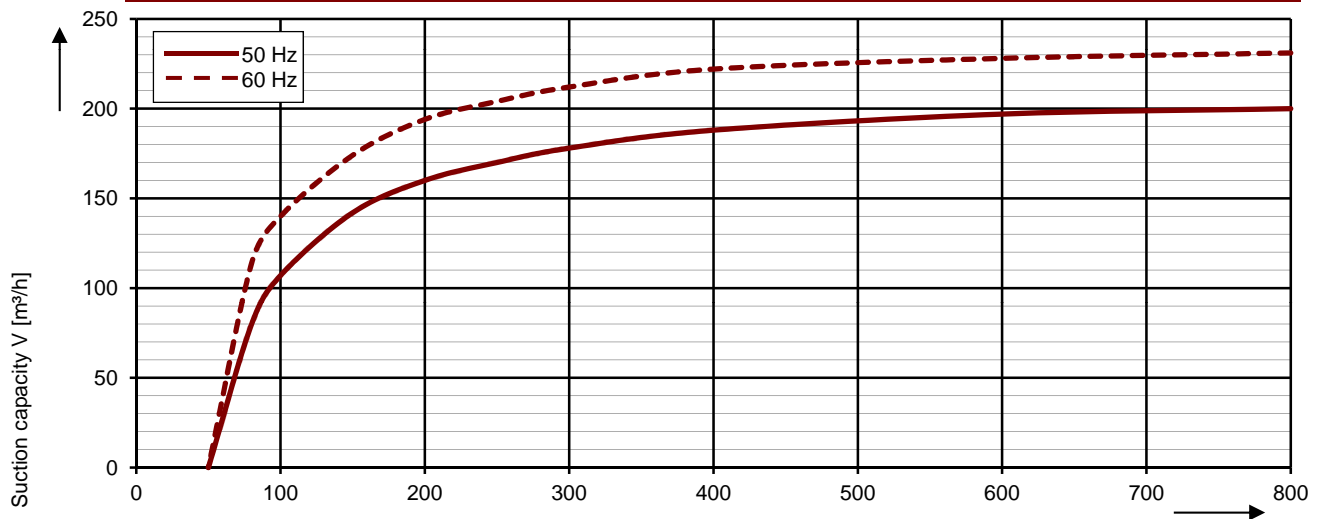
Elmo Rietschle vacuum pumps of the model range L-BL2 are Also known as the Elmo Rietschle "Pump in a Box", these portable units are oil free and air cooled. They include an L-BV liquid ring pump, industrial electric motor, discharge separator, seal water cooler and discharge air cooler. To install – 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 $\pm 10\%$.

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 281

Fre- quency	Rated			Service- factor	Sound pressure level ²⁾	Weight Approx.	Order No.
	Voltage	Current	Power				
Hz	V	A	kW	SF	dB(A)	kg	
3- 50/60 Hz, IP55, Insulation material class F, motor insulation system according UL1446 (File: E101699)							
50	345-415 Δ / 600-720 Y	16,0 Δ / 9,2 Y	5,5	1,27	73	210	2BL2281-0 □ H03-7A
60	380-480 Δ / 660-720 Y	16,0 Δ / 9,2 Y	8,2	1,00	78		
50	200-240 Δ / 345-415 Y	27,5 Δ / 16,0 Y	5,5	1,27	73	210	2BL2281-0 □ H03-8A
60	220-275 Δ / 380-480 Y	27,5 Δ / 16,0 Y	8,2	1,00	78		
3- 50/60 Hz, IP55, Insulation material class F, motor insulation system according UL1446 (File: E101699)							
50	500 Δ	12,5 Δ	5,5	1,27	65	210	2BL2281-0 □ H03-5A
60	575 Δ	12,8 Δ	8,2	1,00	69		

Materials	
Standard version Cast iron	K
Non-cast-iron version	R
Partially stainless steel version	B
Stainless steel version	H

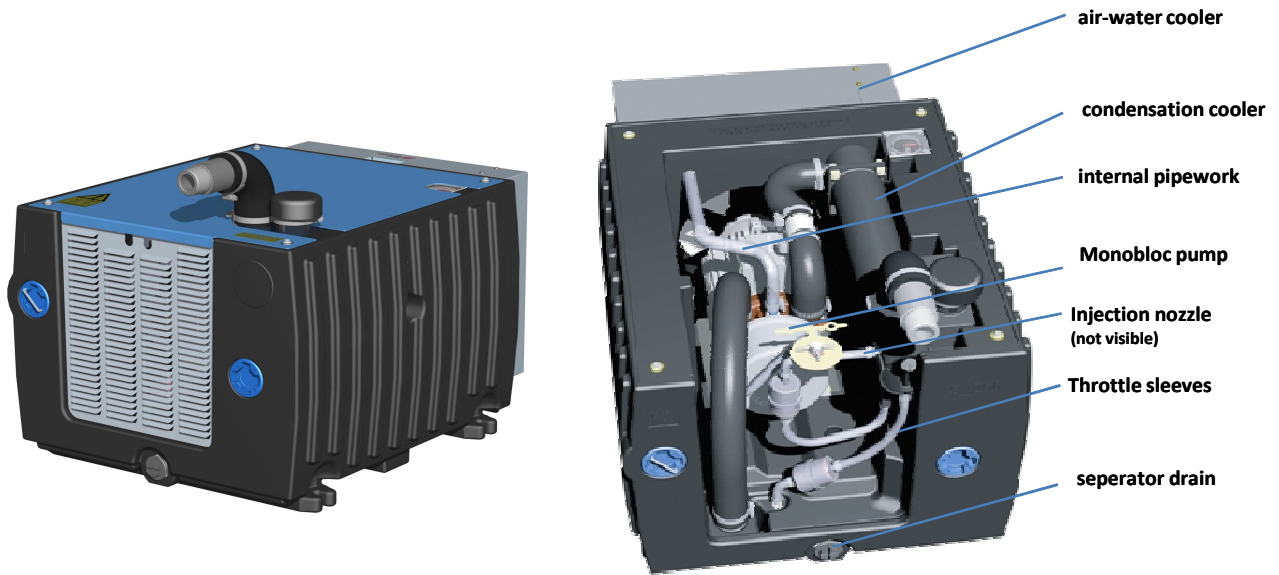
2) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

Other voltages ³⁾

Voltage range		Fixed voltage		^{us}			
50 Hz	60 Hz	50 Hz	60 Hz	60 Hz	2BL2 281-.. □	..- □	A
				Δ	V		
3 Phase							
185 - 220 V Δ / 320 - 380 V Y	200 - 254 V Δ / 345 - 440 V Y					H	0
200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y					H	8
345 - 415 V Δ / 600 - 720 V Y	380 - 480 V Δ / 660 - 720 V Y					H	7
500 V Δ	575 V Δ					H	5
3 Phase							
				IE2 3 Phase			
180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	200 V Δ / 345 V Y	230 V Δ / 400 V Y			P	1
450 - 550 V Δ	520 - 600 V Δ	500 V Δ	575 V Δ			P	5
200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	230 V Δ / 400 V Y	265 V Δ / 460 V Y			P	6
350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	400 V Δ / 690 V Y	460 V Δ			P	7

3) High efficiency motors (IE2) available on request. Please refer to corresponding data sheets.

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. For three phase motors tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. Single phase machines are designed with a +/-5% tolerance. The frequency tolerance is +/- 2 % maximum.



Denomination	K	B	R	H
Monobloc pump Cover / Casing / Port Plate / Impeller	GG / GG+ARC / GG / Bronze	GG / GG+ARC / SS / Bronze	SS / SS / SS / Bronze	SS / SS / SS / SS
Internal piping (suction- and discharge side)	Cast iron / EPDM / Brass / Plastic	SS / EPDM / Brass / Plastic	SS / EPDM / Brass / Plastic	SS / EPDM / Plastic
Water cooler / air-water cooler	Pipes in copper	Pipes in copper	Pipes copper	Pipes in SS
Condensation cooler	Pipes in brass	Pipes in brass	Pipes in brass	Pipes in SS
Throttle sleeves / injection nozzle	Brass	Brass	Brass	SS
Drain of seperator	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)	Polyamide (PA)
Housing (2BL)	Polyethylen (PE)	Polyethylen (PE)	Polyethylen (PE)	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.

Elmo Rietschle is a brand of Gardner Denver

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