

L-BL2 N

Data sheet 2BL2 341

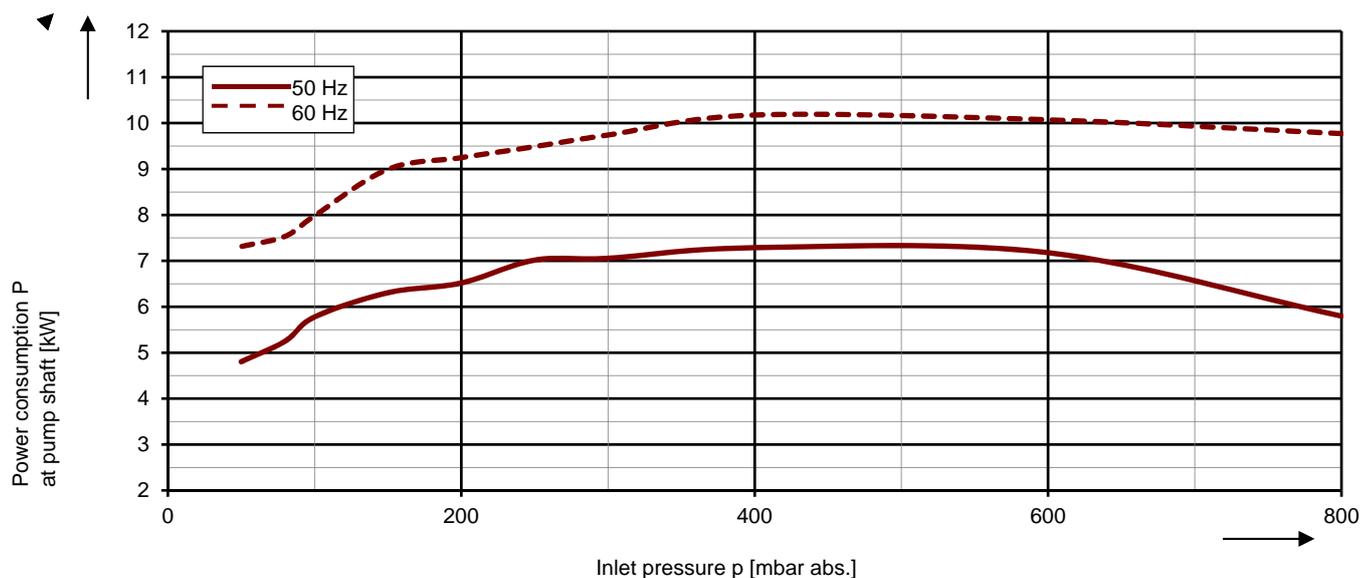
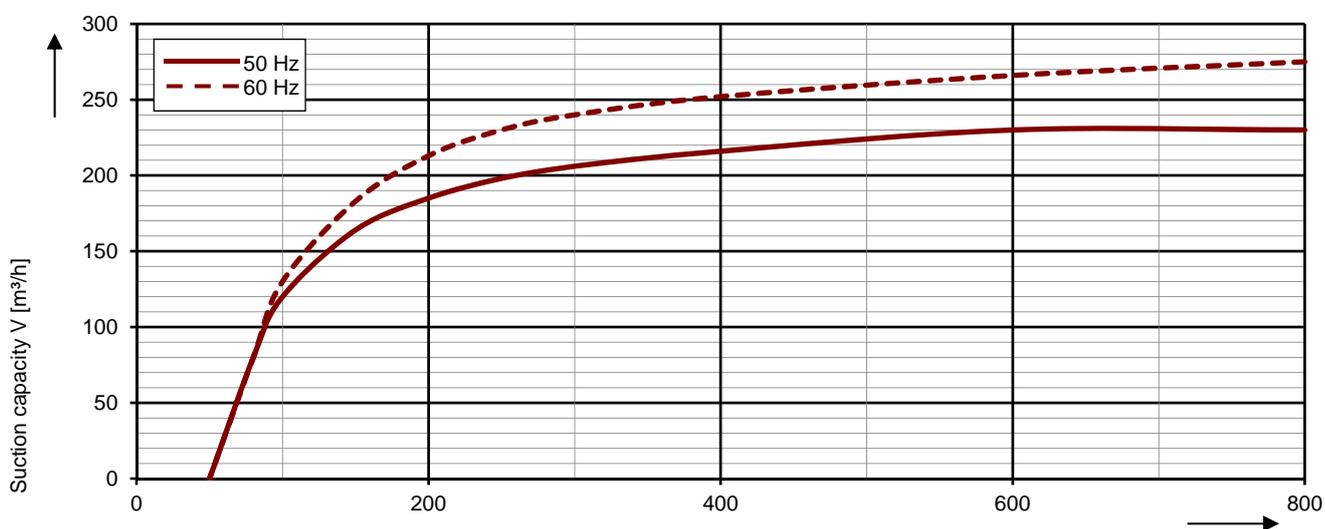
Compact circuit vacuum pump

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 341

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	
3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)								
50	190-210 Δ	45,0 Δ	7,0	1,57	IE3	72	261 *	2BL2341-0 □ K03-1B
60	190-210 YY / 380-420 Y	50,0 YY / 25,0 Y	9,7	1,30	IE3	70	253 **	
	200 YY	43,0 YY	9,7	1,15	NP	70		
3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)								
50	220-240 Δ / 380-420 Y	40,0 Δ / 22,5 Y	7,0	1,57	IE3	72	261 *	2BL2341-0 □ K03-6B
60	220-240 YY / 440-480 Y	44,0 YY / 22,0 Y	9,7	1,30	IE3	70	253 **	
	230 YY / 460 Y	38,0 YY / 18,9 Y	9,7	1,30	NP	70		
3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)								
50	500 Y	17,4 Y	7,0	1,57	IE3	72	261 *	2BL2341-0 □ Q03-3B
60	575 Y	15,1 Y	9,7	1,15	NP	70	253 **	
3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)								
50	380-420 Δ / 660-725 Y	22,5 Δ / 12,9 Y	7,0	1,57	IE3	72	261 *	2BL2341-0 □ Q03-7B
60	440-480 Δ	22,0 Δ	9,7	1,30	IE3	70	253 **	
	460 Δ	19,0 Δ	9,7	1,15	NP	70		

Materials

Cast iron (internal surface with ceramic coating)

K *

Non-cast-iron version

R

Partially stainless steel version

B

CrNi steel

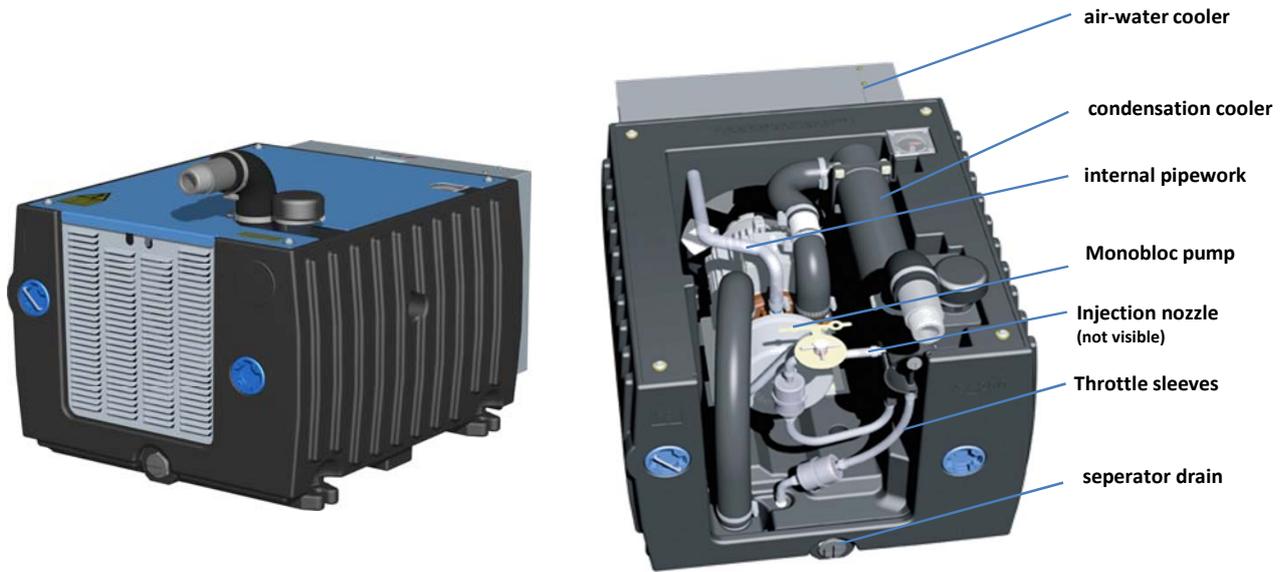
H **

- 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

Voltage range		Efficiency	c US	Order No.	
50 Hz	60Hz			60 Hz	2BL2...-... □ ... □
3~					
200 VΔ	200 V YY / 230 VΔ / 400 VY	 IE3	•	K	1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY				
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY	 IE3	•	K	6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY				
475-525 V Y	550-600 V Y	 IE3	•	Q	3
475-525 VΔ	550-600 VΔ				
400 VΔ / 690 V Y	460 VΔ				

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	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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