



L-BL2 N

Data sheet 2BL2 061

Compact circuit vacuum pump

General information

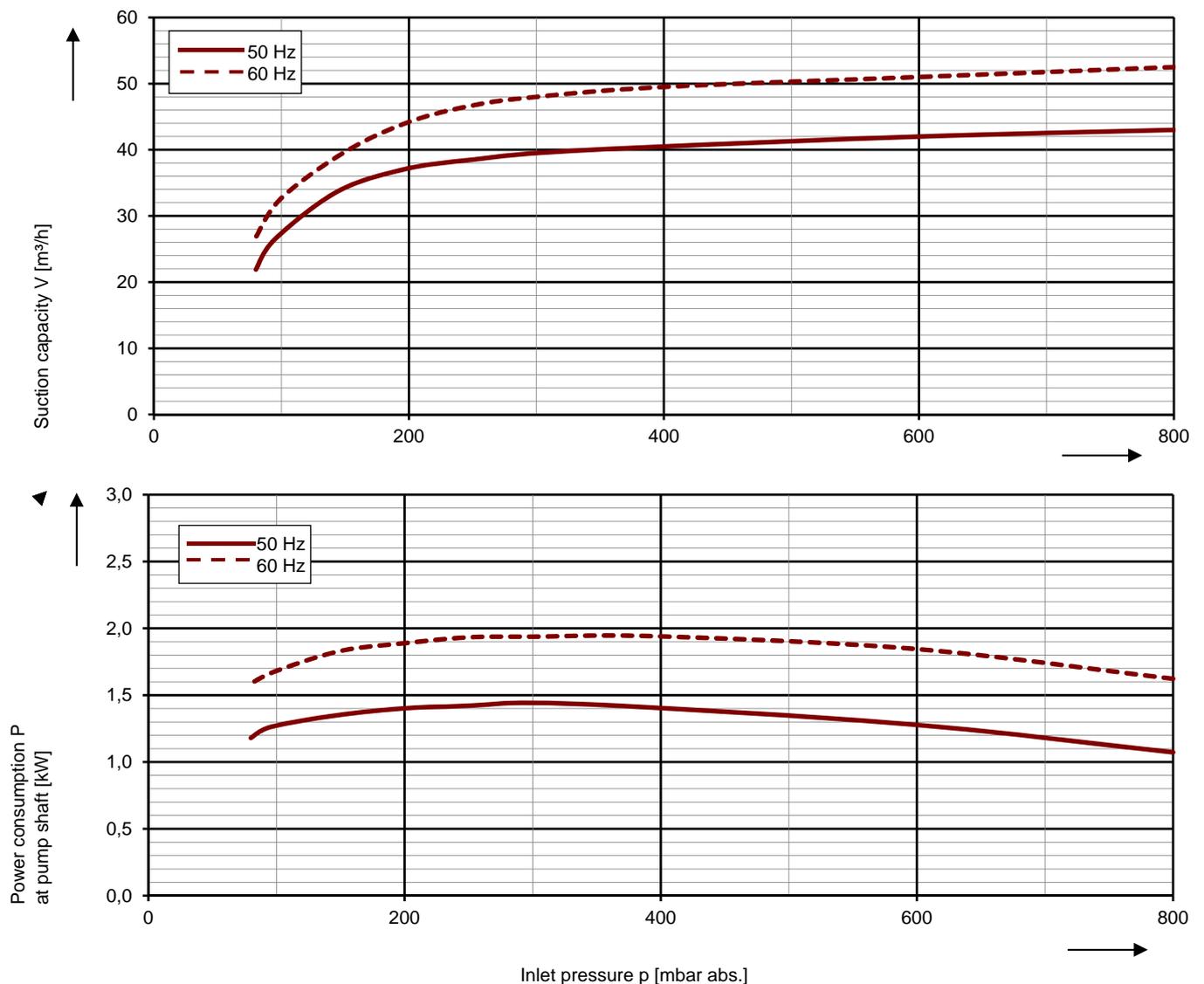
Elmo Rietschle vacuum pumps of the model range L-BL2 are Also known as the Elmo Rietschle "Pump in a Box", these portable units are oil free and air cooled. They include an L-BV liquid ring pump, industrial electric motor, discharge separator, seal water cooler and discharge air cooler. To install –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

| 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 | 8,7 Δ | 1,4 | 1,57 | IE3 | 69 | 64 | 2BL2061-1 □ K50-1B |
| 60 | 190-210 YY / 380-420 Y | 10,0 YY / 5,0 Y | 1,8 | 1,42 | IE3 | 73 | | |
| | 200 YY | 8,4 YY | 1,8 | 1,41 | NP | 73 | | |
| 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | |
| 50 | 220-240 Δ / 380-420 Y | 7,5 Δ / 4,35 Y | 1,4 | 1,57 | IE3 | 69 | 64 | 2BL2061-1 □ K50-6B |
| 60 | 220-240 YY / 440-480 Y | 8,6 YY / 4,3 Y | 1,8 | 1,42 | IE3 | 73 | | |
| | 230 YY / 460 Y | 7,3 YY / 3,65 Y | 1,8 | 1,42 | NP | 73 | | |
| 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | |
| 50 | 500 Y | 3,35 Y | 1,4 | 1,57 | IE3 | 69 | 64 | 2BL2061-1 □ Q50-3B |
| 60 | 575 Y | 2,90 Y | 1,8 | 1,41 | NP | 73 | | |
| 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | |
| 50 | 380-420 Δ / 660-725 Y | 4,35 Δ / 2,50 Y | 1,4 | 1,57 | IE3 | 69 | 64 | 2BL2061-1 □ Q50-7B |
| 60 | 440-480 Δ | 4,30 Δ | 1,8 | 1,42 | IE3 | 73 | | |
| | 460 Δ | 3,65 Δ | 1,8 | 1,41 | NP | 73 | | |

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 | | | | |
| 3~ | | | | | |
| 200 VΔ | 200 V YY / 230 VΔ / 400 VY | | • | | K 1 |
| 190-210 VΔ | 190-210 VYY / 220-240 VΔ / 380-420VY | IE3 | • | | 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 | IE3 | • | | 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) |

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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