

albinus BL10CM Series DC Driven Circulation Pumps with Brushless Motor



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IEC 60335-1 EN 55014
EN/IEC 61000 RoHS Directive 2002/95/EG

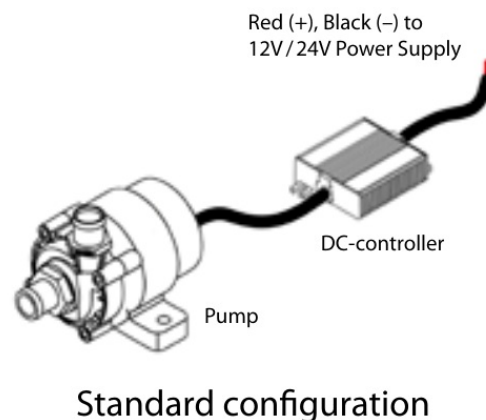
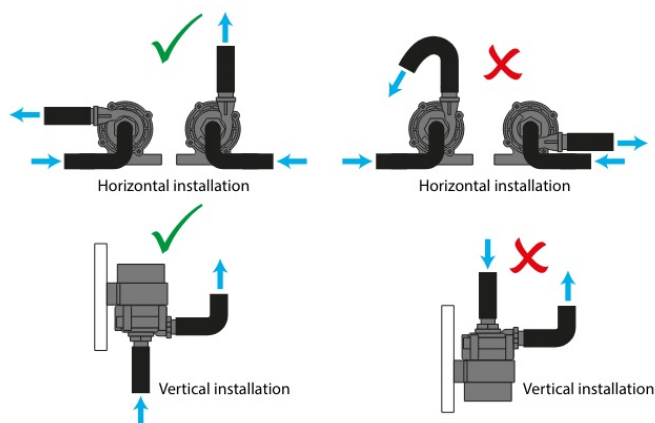
Albin Group's series of Albinus DC-driven Circulation Pumps are designed for circulation of water/antifreeze (max 60% glycol for a water/glycol mixture) in heating or cooling systems on boats, buses, motorhomes, and commercial vehicles. All-round pump with exceptionally long service lifetime, where self-priming is not essential.

- Small size with high efficiency, maintenance-free
- Ceramic Shaft and Carbon fibre sleeve
- Completely waterproof (IP68)
- Brushless DC control, long service life

Installation

Albinus' DC-driven Circulation Pumps with Brushless Motor are normal-priming centrifugal pumps and as such must be installed so that they are always flooded, or must be primed before use. Install the pump at a low point – horizontally or vertically on a flat surface – to ensure a free flow of water to the pump. The pump may even be installed fully submerged.

- In the case of vertical installation, avoid having the water inlet pointing upwards.
- In the case of horizontal installation, avoid air-locks by turning the body in such a way that the outlet is directed upwards or placed on the upper side of the pump body (see drawing below).
- The outlet hose from the pump must be horizontal or directed upwards to evacuate air.



Wiring dimensions

(Based on 3% voltage drop)

Wire size	Max wire length*	
	13.6V	27.2V
1.5 mm ²	—	16 m
2.5 mm ²	6.3 m	25 m
3 mm ²	8 m	31 m
4 mm ²	10m	40 m

Electrical Installation

Before connecting the pump to the power supply, make sure that the working voltage is correct for the pump in question; 12V or 24V.

Note! Before installation with electrical control systems, check that the equipment to be used is of sufficient rated capacity to accept the ampere draw of the motor.

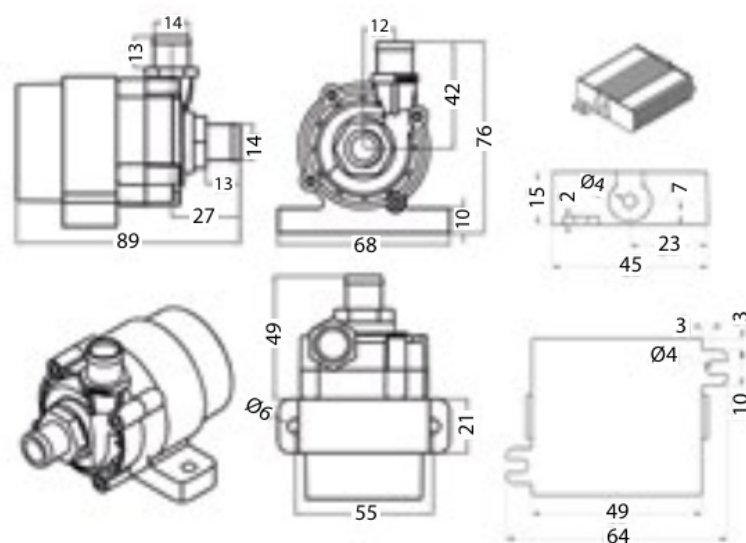
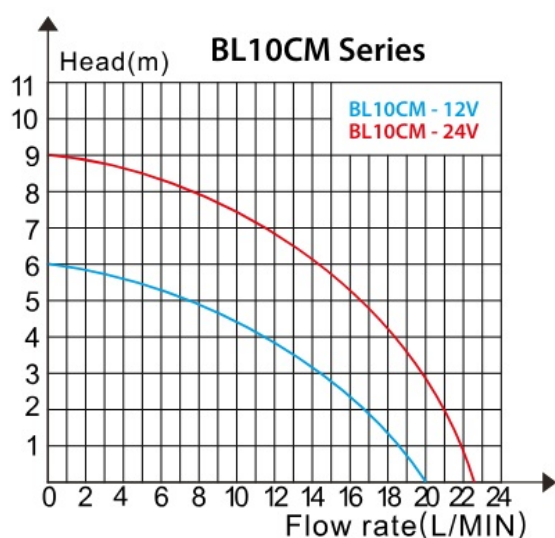
- Connect the Red lead to the Positive (+) terminal. Connect the Black lead to the Negative (–) terminal.
- Ignition-protected fuse, switches, circuit breakers, etc must be installed between the pump and the Positive (+) terminal of the battery, on the Red lead.
- For installation on a boat, all electrical connections must be placed above the highest water level. All wire connections should be sealed with a marine sealant, e.g. Vaseline, silicon rubber or grease.
- Refer to the table above for wire sizes, depending on total wire length.

BL10CM-12 V, Part no. 13-01-005

	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load current	Max Power consumption
BL10CM-12V	14 mm (5/8")	19 l/min	16 l/min	2 A	25 W
BL10CM-24V	14 mm (5/8")	21 l/min	18 l/min	1.7 A	40 W



Dimensions	See Drawing
Ports Size	Dia 14 mm (5/8")
Weight	0.2 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of the pump housing	ABS, PES/SPS/PA66
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermitent + 100 °C.

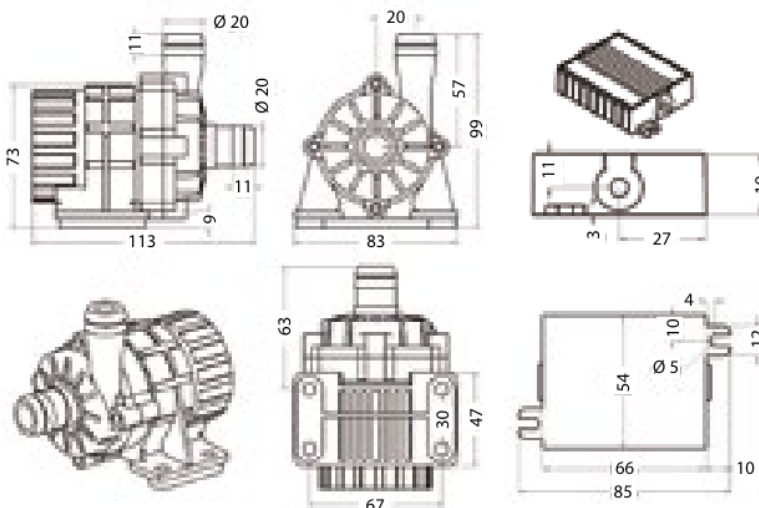
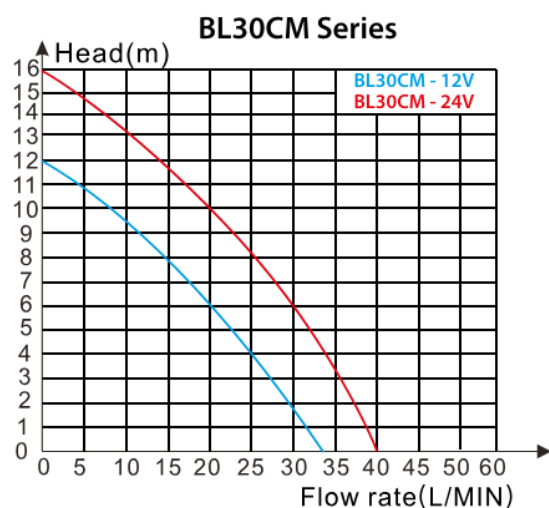


BL30CM-12 V, Part no. 13-01-001

	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load current	Max Power consumption
BL30CM-12V	20 mm (¾")	32 l/min	28 l/min	4.5 A	54W
BL30CM-24V	20 mm (¾")	38 l/min	36 l/min	3.3 A	80W



Dimensions	See Drawing
Ports Size	Dia 20 mm (3/4")
Weight	0.48 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of the pump housing	ABS, PES/SPS/PA66
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermitent + 100 °C.

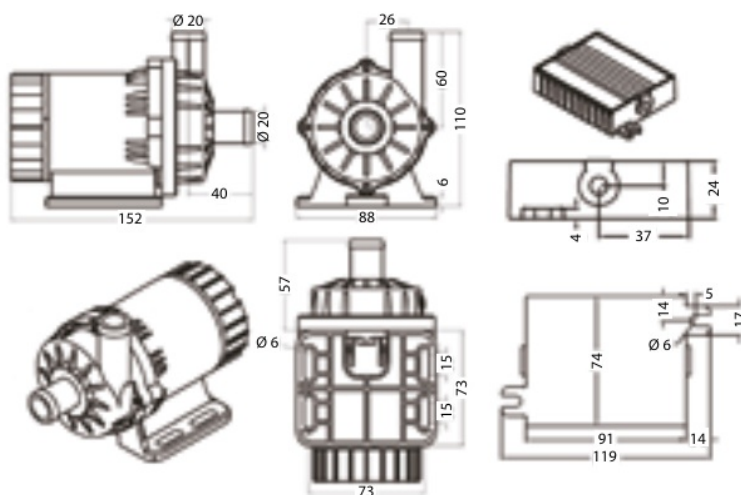
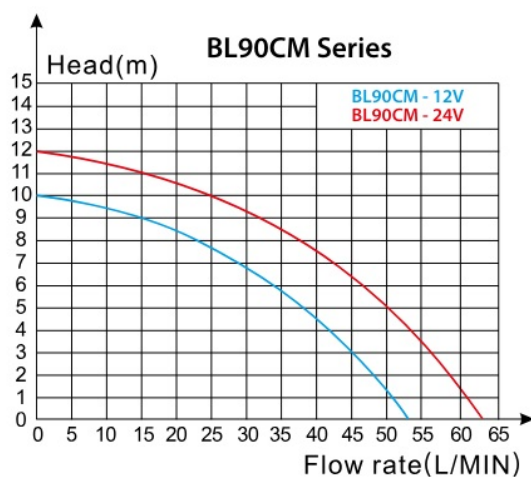


BL90CM-12 V, Part no. 13-01-003

	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load current	Max Power consumption
BL90CM-12V	20 mm (3/4")	51 l/min	47 l/min	6.6 A	80W
BL90CM-24V	20 mm (3/4")	61 l/min	57 l/min	3.3 A	120W



Dimensions	See Drawing
Ports Size	Dia 20 mm (3/4")
Weight	0.89 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of the pump housing	ABS, PES/SPS/PA66
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermitent + 100 °C.

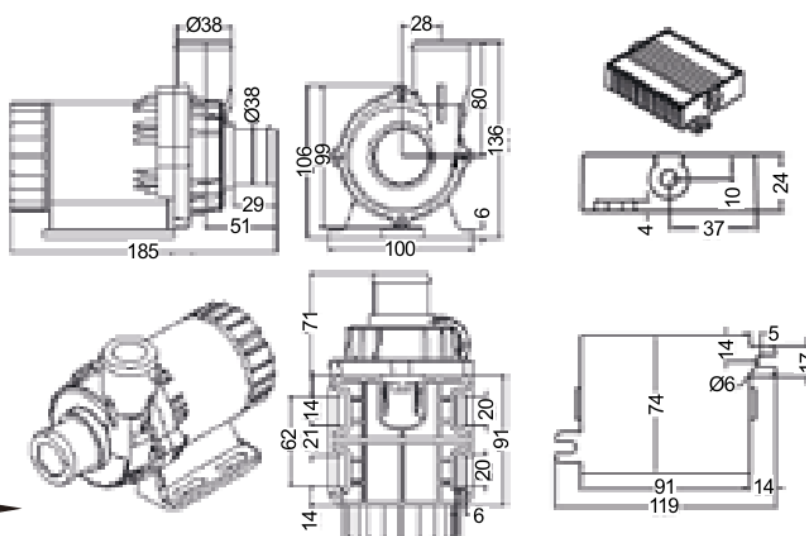
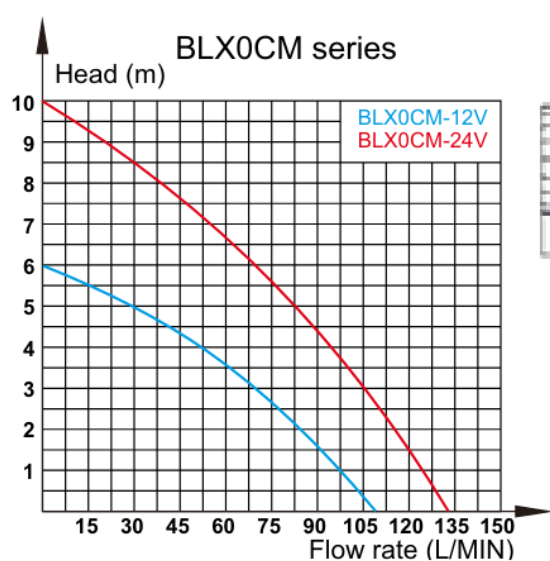


BL110CM-12 V, Part no. 13-01-007

	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load cu rrent	Max Power consu ption
BL110CM-12V	38 mm (1 1/2")	97.5 l/min	77.5 l/min	5.4 A	80 W
BL110CM-24V	38 mm (1 1/2")	124.5 l/min	110.5 l/min	5.4 A	150 W



Dimensions	See Drawing
Ports Size	Dia 38 mm (1 1/2")
Weight	2.1 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of the pump housing	ABS, PES, SPS, PPS, PA66+30%GF(Optional)
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermittent + 100 °C

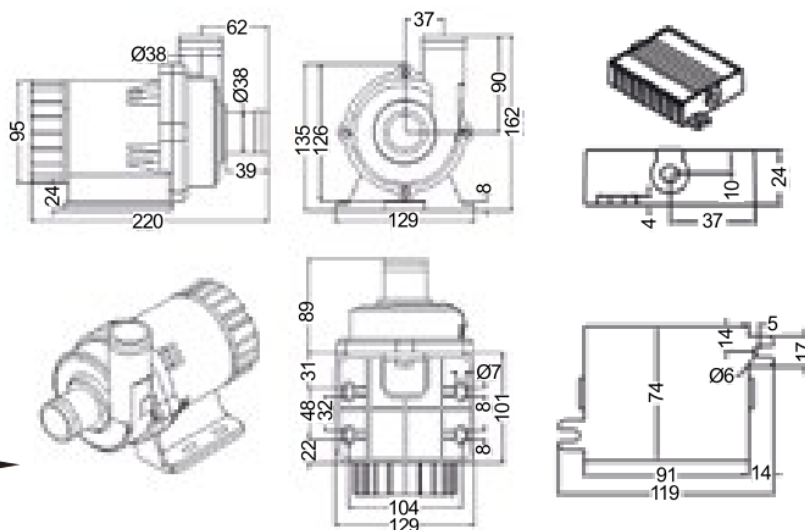
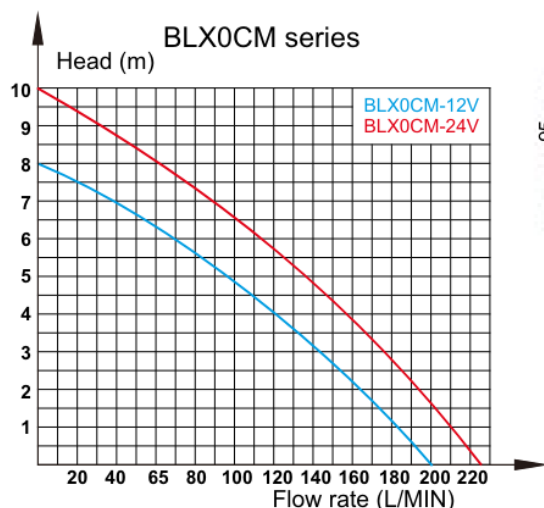


BL130CM-12 V, Part no. 13-01-009

	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load current	Max Power consumption
BL130CM-12V	38 mm (1 1/2")	183 l/min	154 l/min	7.0 A	100W
BL130CM-24V	38 mm (1 1/2")	210 l/min	185 l/min	7.0 A	200W



Dimensions	See Drawing
Ports Size	Dia 38 mm (1 1/2")
Weight	3.2 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of the pump housing	ABS, PES, SPS, PPS, PA66+30%GF(Optional)
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermitent + 100 °C.



Cautionary Notes

- Do not pump gasoline, solvents, thinner, seawater or other liquids with large suspended particles.
- The pump should not be run dry, even if it withstands a shorter time of dry running. Max. dry running for 30 minutes. If it runs dry, noise may occur. Avoid dry running because it will always cause increased wear.
- Use full hose diameter at the inlet. Reduced hose diameter at the inlet gives reduced performance and risk of cavitations which can cause damage to the pump. For Winter storage, disconnect the pump from the power supply and drain any remaining liquid in the pump

Separate Order Speed Control configurations

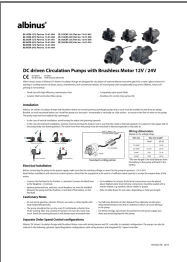
Albinus' DC-driven Circulation Pumps with Brushless Motor come with a wiring harness and DC-controller, in standard configuration. The pumps can also be ordered in the following, optional, Speed Regulation configurations; with wiring harness and integrated DC/ Speed controller.

Waste handling & material recycling

At the product's end of life, please dispose of the product according to applicable law. Where applicable, please disassemble the product and recycle the parts according to the material.

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Documents / Resources

	albinus BL10CM Series DC Driven Circulation Pumps with Brushless Motor [pdf] Instruction Manual BL10CM-12V, BL10CM-24V, BL30CM-12V, BL30CM-24V, BL90CM-12V, BL90CM-24V, BL110CM-12V, BL110CM-24V, BL130CM-12V, BL130CM-24V, BL10CM Series DC Driven Circulation Pumps with Brushless Motor, BL10CM Series, DC Driven Circulation Pumps with Brushless Motor, Circulation Pumps with Brushless Motor, Pumps with Brushless Motor, Brushless Motor, Motor
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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