

BL10CM-12V, Part no. 13-01-005
 BL10CM-24V, Part no. 13-01-006
 BL30CM-12V, Part no. 13-01-001
 BL30CM-24V, Part no. 13-01-002
 BL90CM-12V, Part no. 13-01-003
 BL90CM-24V, Part no. 13-01-004

BL110CM-12V, Part no. 13-01-007
 BL110CM-24V, Part no. 13-01-008
 BL130CM-12V, Part no. 13-01-009
 BL130CM-24V, Part no. 13-01-010



DC driven Circulation Pumps with Brushless Motor 12V / 24V

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

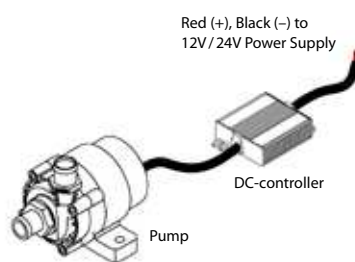
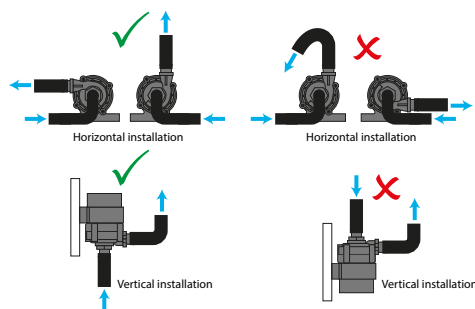
Albin Group's series of Albinus DC-driven Circulation Pumps are designed for circulation of water/antifreeze (max 60% glycol for a water / glycol mixture) in heating or cooling systems on boats, buses, motorhomes, and commercial vehicles. All-round pump with exceptionally long service lifetime, where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

- Small size with high efficiency, maintenance-free
- Ceramic Shaft and Carbon fiber sleeve
- Completely water proof (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 is 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.



Standard configuration

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

*The wire length is the total distance from the battery to the pump and back to the battery.

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 highest water level. All wire connections should be sealed with a marine sealant, e.g. Vaseline, silicon rubber or grease.
- Refer to table above for wire sizes, depending on total wire length.

Cautionary Notes

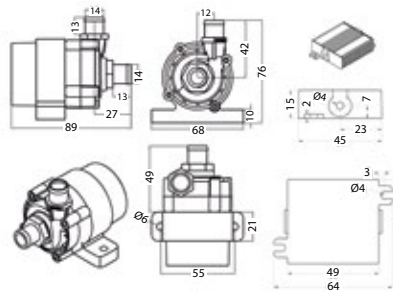
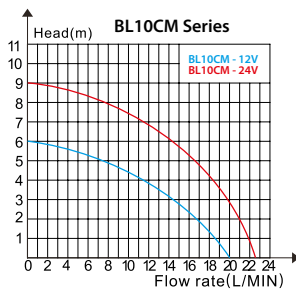
- Do not pump gasoline, solvents, thinner, sea water or other liquids with large suspended particles.
- The pump should not be run dry, even if it withstands a shorter time of dry running. Max. dry running 30 minutes. If it runs dry, noise may occur. Avoid dry running because it will always cause increased wear.
- Use full hose diameter at inlet. Reduced hose diameter at inlet gives reduced performance and risk of cavitations which can cause damage in 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 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.

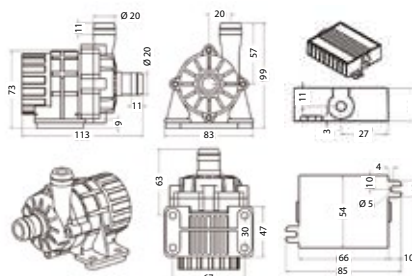
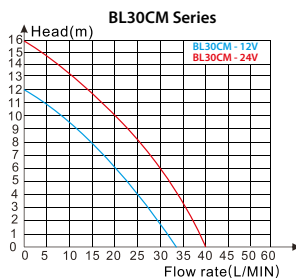
BL10CM-24V, Part no. 13-01-006

Dimensions	See Drawing
Ports Size	Dia 14 mm (½")
Weight	0.2 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of pump housing	ABS, PES/SPS/PA66
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermittent + 100 °C.



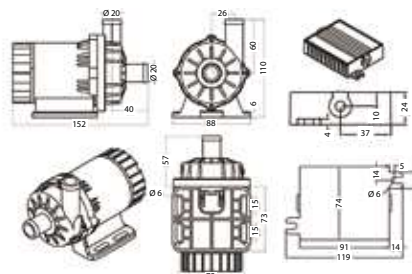
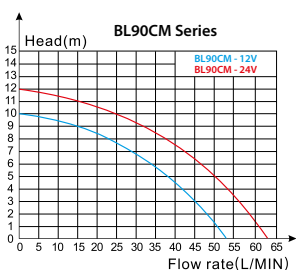
BL30CM-24V, Part no. 13-01-002

Dimensions	See Drawing
Ports Size	Dia 20 mm (¾")
Weight	0.48 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of pump housing	ABS, PES/SPS/PA66
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermittent + 100 °C.



BL90CM-24V, Part no. 13-01-004

Dimensions	See Drawing
Ports Size	Dia 20 mm (¾")
Weight	0.89 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of pump housing	ABS, PES/SPS/PA66
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermittent + 100 °C.

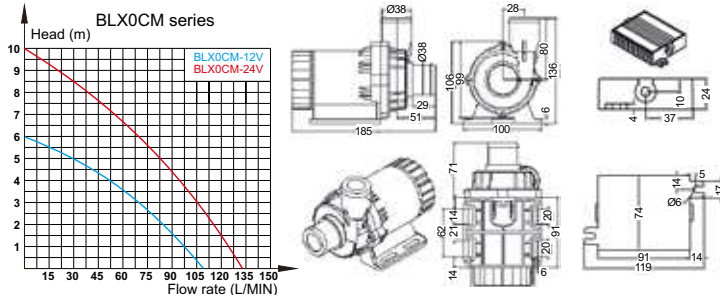


BL110CM-12V, Part no. 13-01-007

BL110CM-24V, Part no. 13-01-008



	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load current	Max Power consumption
BL110CM-12V	38 mm (1½")	97.5 l/min	77.5 l/min	5.4 A	80 W
BL110CM-24V	38 mm (1½")	124.5 l/min	110.5 l/min	5.4 A	150 W



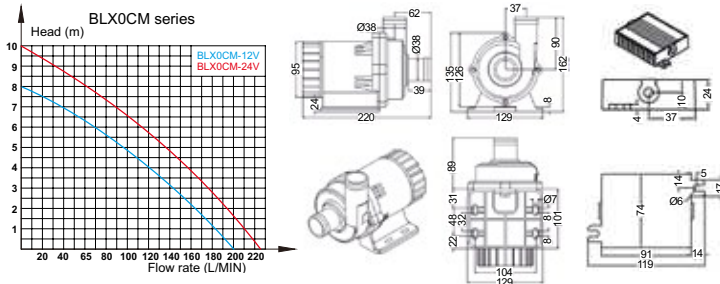
Dimensions	See Drawing
Ports Size	Dia 38 mm (1½")
Weight	2.1 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of pump housing	ABS,PES,SPS,PPS,PA66+30%GF(Optional)
Motor IP Classification	IP 68
Noise class	35 dB
Max. Liquid Temp.	Continuous Duty + 80 °C Intermittent + 100 °C

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

BL130CM-24V, Part no. 13-01-010



	Port Size	Capacity at 0.1 bar	Capacity at 0.25 bar	Max. load current	Max Power consumption
BL130CM-12V	38 mm (1½")	183 l/min	154 l/min	7.0 A	100 W
BL130CM-24V	38 mm (1½")	210 l/min	185 l/min	7.0 A	200 W



Dimensions	See Drawing
Ports Size	Dia 38 mm (1½")
Weight	3.2 kg
Motor	Brushless magnetic isolated design
Duty	Continuous Duty
Life span	20 000 hours
Materials of 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.



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 material.

Albin Group

since 1928

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