

Circulation Pumps



CM-series – a line of compact magnetic driven centrifugal pumps which combine high flow rates with very low electric current consumption. Suitable for fresh water and ethylene glycol.

C090 – mechanical sealed pumps with a motor designed for continuous operation. Suitable for fresh water and ethylene glycol circulation.

CM90BL-series – magnetic driven centrifugal pump, fitted with a brushless electric motor with fewer wear parts for continuous operation with extra long service life. Suitable for circulation of glycol mixture or fresh water.



CE marked according to following standards:

CM10P7-1, CM30P7-1, CM90, *C090P5-1, CM90BL

Recreational Craft Directive 94/25/EEC

ISO 8846: 1990/Small Craft - Electrical devices - Protection against ignition of surrounding flammable gases (ISO 10133: 1994/Small Craft -Electrical systems - Extra low-voltage DC installations)

Electromagnetic Compatibility Directive 2004/108/EC

EN55014-1: 2006 Electromagnetic compatibility –

Requirements for household appliances, electric tools and similar apparatus – Part 1:Emission

EN55014-2: 1997 +A1: 2001 Electromagnetic compatibility –

Requirements for household appliances, electric tools and similar apparatus – Part 2:Immunity.

EN61000-6-3: 2007 Electromagnetic compatibility (EMC) –

Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments.

2004/104/EC: 2004 Annex 1; paragraph 6.5, 6.6, 6.8 and 6.9.

*Not ISO 8846 (ISO10133)

CM10 & CM30

Pump Body	PPA	Dry running	Max 30 minutes
Impeller	PPA	Input Power	Max 14W (CM10) 27W (CM30)
Shaft	Stainless Steel	Mounting	Separate universal bracket for flat surfaces
Motor	12/24V DC enclosed (as per IP67) permanent magnet, ball bearing mounted motor, designed for continuous operation	Dimensions and weight	
Liquid	Water/glycol mixture; max. 60% glycol, fresh water	Length	CM10P7-1 177 mm – 6.97" CM30P7-1 177 mm – 6.97"
Liquid temp	Min -40°C Max +100°C	Width	68 mm – 2.68" 68 mm – 2.68"
System pressure:	2,5 bar max	Height	85 mm – 3.35" 85 mm – 3.35"
Port size	Ø 16 mm (5/8") or 20 mm (3/4") hose	Weight	0.53 kg – 1.2 lbs 0.6 kg – 1.3 lbs



Order No.	Description	Hose connection	Back pressure			Flow	
			Bar	kPa	ft	l/min	USGPM
10-24501-03/-04	CM10P7-1, 12V/24V	Ø 16 mm (5/8")	0.1	10	3.3	15.0	4.0
			0.15	15	4.9	12.0	3.2
10-24502-03/-04	CM10P7-1, 12V/24V	Ø 20 mm (3/4")	0.1	10	3.3	18.5	5.0
			0.15	15	4.9	14.5	3.9

Order No.	Description	Hose connection	Back pressure			Flow	
			Bar	kPa	ft	l/min	USGPM
10-24503-03/-04	CM30P7-1, 12V/-24V	Ø 16 mm (5/8")	0.1	10	3.3	20.0	5.3
			0.15	15	6.6	17.5	4.2
10-24504-03/-04	CM30P7-1, 12V/-24V	Ø 20 mm (3/4")	0.1	10	3.3	26.0	6.9
			0.15	15	6.6	22.5	5.2

Note! CM30P7-1 with Ø 16 mm (5/8") available on request.

C090

Pump Body	PA66	Dry running	No
Impeller	PA66	Input Power	100W
Shaft	Stainless steel	Mounting	Separate universal bracket for flat surfaces
Motor	12/24 V DC enclosed (as per IP31) permanent magnet, ball bearing mounted motor, designed for continuous operation	Dimensions and weight	
Liquid	Water/glycol mixture; max. 60% glycol, fresh water	Length	211 mm – 8.3"
Liquid temp	Min -30°C Max +100°C	Width	117 mm – 4.6"
System pressure:	2 bar max	Height	110 mm – 4.56" from baseplate (totally 116 mm – 4.8")
Port size	Ø 38 mm (1 1/2") hose	Weight	1.75 kg – 3.8 lbs



Order No.	Description	Capacity 0,1 bar	Capacity 0,15 bar
10-24190-1	C090P5-1, 12V	100 l/min at 0.1 bar (26.4 GPM at 3.3 ft)	90 l/min at 0.15 bar (23.7 GPM at 4.9 ft)
10-24190-2	C090P5-1, 24V	100 l/min at 0.1 bar (26.4 GPM at 3.3 ft)	90 l/min at 0.15 bar (23.7 GPM at 4.9 ft)

CM90

Pump Body	PPA	Dry running	Max 30 minutes
Impeller	PA12	Input Power	Max. 125W
Shaft	Stainless Steel	Mounting	Separate universal bracket for flat surfaces
Motor	12/24 V DC enclosed (as per IP67) permanent magnet, ball bearing mounted motor, designed for continuous operation	Dimensions and weight	
Liquid	Water/glycol mixture; max. 60% glycol, fresh water	Length	Ø 20 mm Ø 38 mm
Liquid temp	Min -30°C Max +100°C	Width	255 mm 253 mm
System pressure:	2 bar max	Height	120 mm 120 mm
Port size	Ø 20 mm (3/4") & Ø 38 mm (1 1/4")	Weight	140.5 mm 149.5 mm
			3.0 kg – 6.6 lbs 3.0 kg – 6.6 lbs



Ø 20 mm (3/4")

Order No.	Description	Capacity 0,1 bar	Capacity 0,25 bar
10-24750-01	CM90P7-1, 12V	65 l/min (17.2 GPM) at 0.1 bar	50 l/min (13.2 GPM) at 0.25 bar
10-24750-02	CM90P7-1, 24V	65 l/min (17.2 GPM) at 0.1 bar	50 l/min (13.2 GPM) at 0.25 bar

Ø 38 mm (1 1/2")

Order No.	Description	Capacity 0,1 bar	Capacity 0,25 bar
10-24664-01	CM90P7-1, 12V	115 l/min at 0.1 bar (30.4 GPM at 8.2 ft)	90 l/min at 0.25 bar (23.8 GPM at 8.2 ft)
10-24664-02	CM90P7-1, 24V	115 l/min at 0.1 bar (30.4 GPM at 8.2 ft)	90 l/min at 0.25 bar (23.8 GPM at 8.2 ft)



CM90BL

Pump Body	PPA	Dry running	Max 30 minutes
Impeller	PA12	Input Power	Max. 125W
Shaft	Stainless Steel	Mounting	Separate universal bracket for flat surfaces
Motor	Brushless 12/24 V DC enclosed (as per IP67) permanent magnet, ball bearing mounted motor, designed for continuous operation	Dimensions and weight	
Liquid	Water/glycol mixture; max. 60% glycol, fresh water	Length	Ø 20 mm Ø 38 mm
Liquid temp	Min -40°C Max +100°C	Width	273.5 mm 272 mm
System pressure:	2,5 bar max	Height	121 mm 121 mm
Port size	Ø 20 mm (¾") & Ø 38 mm (1½")	Weight	141 mm 150 mm
			3.0 kg (6.6 lbs) with 3.0 kg (6.6 lbs) with
			bracket, 2.8 kg (6.2 bracket, 2.8 kg (6.2
			lbs) without bracket lbs) without bracket

Ø 20 mm (¾")

Order No.	Description	Capacity 0,1 bar	Capacity 0,25 bar
10-24901-01	CM90P7-1 BL, 12V	55 l/min at 0.1 bar (14.5 GPM at 8.2 ft)	50 l/min at 0.25 bar (13.2 GPM at 8.2 ft)
10-24901-02	CM90P7-1 BL, 24V	55 l/min at 0.1 bar (14.5 GPM at 8.2 ft)	50 l/min at 0.25 bar (13.2 GPM at 8.2 ft)

Ø 38 mm (1½")

Order No.	Description	Capacity 0,1 bar	Capacity 0,25 bar
10-24898-01	CM90P7-1 BL, 12V	115 l/min at 0.1 bar (30.4 GPM at 8.2 ft)	90 l/min at 0.25 bar (23.8 GPM at 8.2 ft)
10-24898-02	CM90P7-1 BL, 24V	115 l/min at 0.1 bar (30.4 GPM at 8.2 ft)	90 l/min at 0.25 bar (23.8 GPM at 8.2 ft)