DC CIRCULATION PUMPS - TECHNICAL DATA SHEET

Brushless magnetic-drive pumps IP68 for seawater circuits - 12V, 24V and 48V DC

Common features

• Brushless motor and magnetic drive	• Protection grade IP68
• Protection against dry running	• Submersible pumps for heavy-duty applications
• Maximum indicated ambient temperature: 60 °C	• Non-self-priming pumps

12V DC models

Specification	GEN003PUMOP12V	GEN004PUMOP12V	GEN005PUMOP12V
Indicative maximum capacity of the served system	12,000 BTU/h	20,000 BTU/h	22,000 BTU/h
Nominal voltage	12 V DC	12 V DC	12 V DC
Voltage range	10-16 V DC	10-16 V DC	10-16 V DC
Flow rate / head - point 1	25 l/min (396 GPH) / 4 m (13 ft)	35 l/min (555 GPH) / 5 m (16 ft)	65 l/min (1,030 GPH) / 3 m (10 ft)
Flow rate / head - point 2	20 l/min (317 GPH) / 6 m (20 ft)	30 l/min (475 GPH) / 6 m (20 ft)	50 l/min (792 GPH) / 3.5 m (11.5 ft)
Flow rate / head - point 3	15 l/min (238 GPH) / 8 m (26 ft)	24 l/min (380 GPH) / 7 m (23 ft)	45 l/min (713 GPH) / 4 m (13 ft)
Maximum power absorbed	54 W	80 W	80 W
Maximum current absorbed	4.5 A	6.7 A	6.7 A
BSPP inlet / outlet connections	1/2" / 1/2"	3/4" / 3/4"	1" / 1"
Dimensions L x W x H	102 x 78 x 80 mm	152 x 88 x 110 mm	185 x 100 x 136 mm
Weight	0.52 kg	1.52 kg	2.1 kg
Speed adjustment	No	Yes	Yes

24V DC CIRCULATION PUMPS

Technical specifications of the 24V DC models

24V DC Models

Specification	GEN003PUMOP24V	GEN004PUMOP24V	GEN005PUMOP24V	GEN006PUMOP24V
Indicative maximum capacity of the served system	18,000 BTU/h	28,000 BTU/h	56,000 BTU/h	72,000 BTU/h
Nominal voltage	24 V DC	24 V DC	24 V DC	24 V DC
Voltage range	20-28.5 V DC	20-28.5 V DC	20-28.5 V DC	20-28.5 V DC
Flow rate / head - point 1	33 l/min (523 GPH) / 4 m (13 ft)	50 l/min (792 GPH) / 4 m (13 ft)	90 l/min (1,426 GPH) / 4 m (13 ft)	140 l/min (2,219 GPH) / 5 m (16 ft)
Flow rate / head - point 2	25 l/min (396 GPH) / 8 m (26 ft)	42 l/min (666 GPH) / 6 m (20 ft)	82 l/min (1,300 GPH) / 5 m (16 ft)	110 l/min (1,743 GPH) / 6 m (20 ft)
Flow rate / head - point 3	22 l/min (349 GPH) / 9 m (29 ft)	37 l/min (586 GPH) / 7 m (23 ft)	67 l/min (1,062 GPH) / 6 m (20 ft)	80 l/min (1,268 GPH) / 7 m (23 ft)
Maximum power absorbed	80 W	120 W	150 W	200 W
Maximum current absorbed	3.3 A	5.0 A	6.3 A	8.3 A
BSPP inlet / outlet connections	1/2" / 1/2"	3/4" / 3/4"	1" / 1"	1 1/4" / 1 1/4"
Dimensions L x W x H	102 x 78 x 80 mm	152 x 88 x 110 mm	185 x 100 x 136 mm	220 x 129 x 162 mm
Weight	0.52 kg	1.52 kg	2.1 kg	3.2 kg
Speed adjustment	No	Yes	Yes	Yes

48V DC CIRCULATION PUMPS

Technical specifications of the 48V DC models

48V DC Models

Specification	GEN005PUMOP48V	GEN006PUMOP48V
Indicative maximum capacity of the served system	56,000 BTU/h	72,000 BTU/h
Nominal voltage	48 V DC	48 V DC
Voltage range	40-60 V DC	40-60 V DC
Flow rate / head - point 1	90 l/min (1,426 GPH) / 4 m (13 ft)	140 l/min (2,219 GPH) / 5 m (16 ft)
Flow rate / head - point 2	82 l/min (1,300 GPH) / 5 m (16 ft)	110 l/min (1,743 GPH) / 6 m (20 ft)
Flow rate / head - point 3	67 l/min (1,062 GPH) / 6 m (20 ft)	80 l/min (1,268 GPH) / 7 m (23 ft)
Maximum power absorbed	150 W	200 W
Maximum current absorbed	3.1 A	4.2 A
BSPP inlet / outlet connections	1" / 1"	1 1/4" / 1 1/4"
Dimensions L x W x H	185 x 100 x 136 mm	220 x 129 x 162 mm
Weight	2.1 kg	3.2 kg
Speed adjustment	Yes	Yes

PERFORMANCE AT DIFFERENT POWER LEVELS

Power consumption data for models designed for speed control

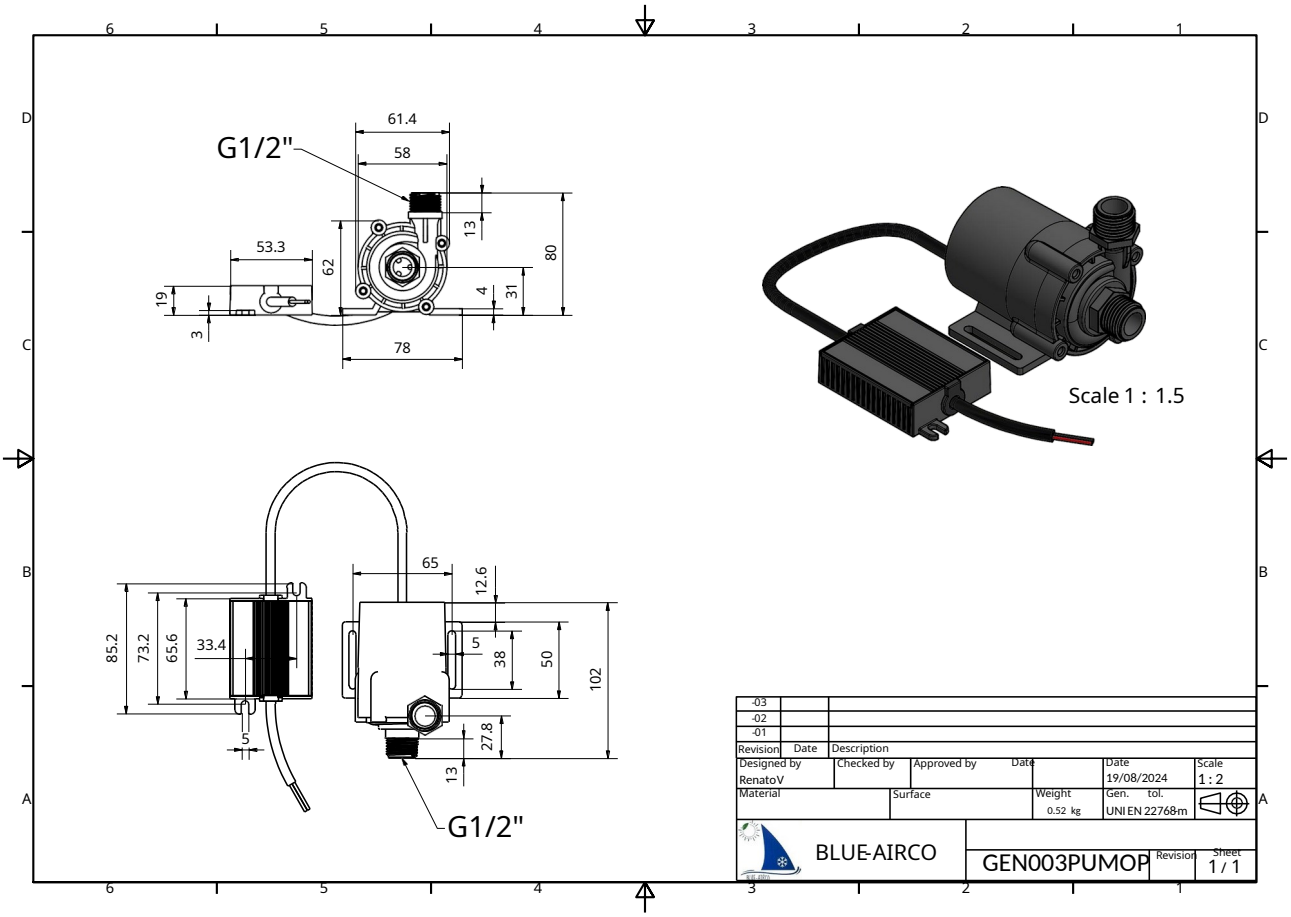
The values shown are derived from the attached performance table. GEN003 is a fixed-speed model and is therefore indicated only at 100%.

Voltage	Model	Power level	Indicative system capacity	Power consumption	Absorbed current
12 V DC	GEN003PUMOP12V	100%	12,000 BTU/h	54 W	4.5 A
12 V DC	GEN004PUMOP12V	100%	20,000 BTU/h	80 W	6.7 A
12 V DC	GEN004PUMOP12V	50%	10,000 BTU/h	40 W	3.3 A
12 V DC	GEN005PUMOP12V	100%	22,000 BTU/h	80 W	6.7 A
12 V DC	GEN005PUMOP12V	50%	12,000 BTU/h	40 W	3.3 A
24 V DC	GEN003PUMOP24V	100%	18,000 BTU/h	80 W	3.3 A
24 V DC	GEN004PUMOP24V	100%	28,000 BTU/h	120 W	5.0 A
24 V DC	GEN004PUMOP24V	60%	18,000 BTU/h	70 W	2.9 A
24 V DC	GEN004PUMOP24V	30%	10,000 BTU/h	40 W	1.7 A
24 V DC	GEN005PUMOP24V	100%	56,000 BTU/h	150 W	6.3 A
24 V DC	GEN005PUMOP24V	50%	30,000 BTU/h	80 W	3.3 A
24 V DC	GEN005PUMOP24V	25%	10,000 BTU/h	40 W	1.7 A
24 V DC	GEN006PUMOP24V	100%	72,000 BTU/h	200 W	8.3 A
24 V DC	GEN006PUMOP24V	50%	36,000 BTU/h	100 W	4.2 A
24 V DC	GEN006PUMOP24V	25%	18,000 BTU/h	50 W	2.1 A
48 V DC	GEN005PUMOP48V	100%	56,000 BTU/h	150 W	3.1 A
48 V DC	GEN005PUMOP48V	50%	30,000 BTU/h	80 W	1.7 A
48 V DC	GEN005PUMOP48V	25%	10,000 BTU/h	40 W	0.8 A
48 V DC	GEN006PUMOP48V	100%	72,000 BTU/h	200 W	4.2 A
48 V DC	GEN006PUMOP48V	50%	36,000 BTU/h	100 W	2.1 A
48 V DC	GEN006PUMOP48V	25%	18,000 BTU/h	50 W	1.0 A

The capacity in BTU/h indicates the overall indicative capacity of the air conditioning system served by the pump, not a cooling performance generated by the pump.

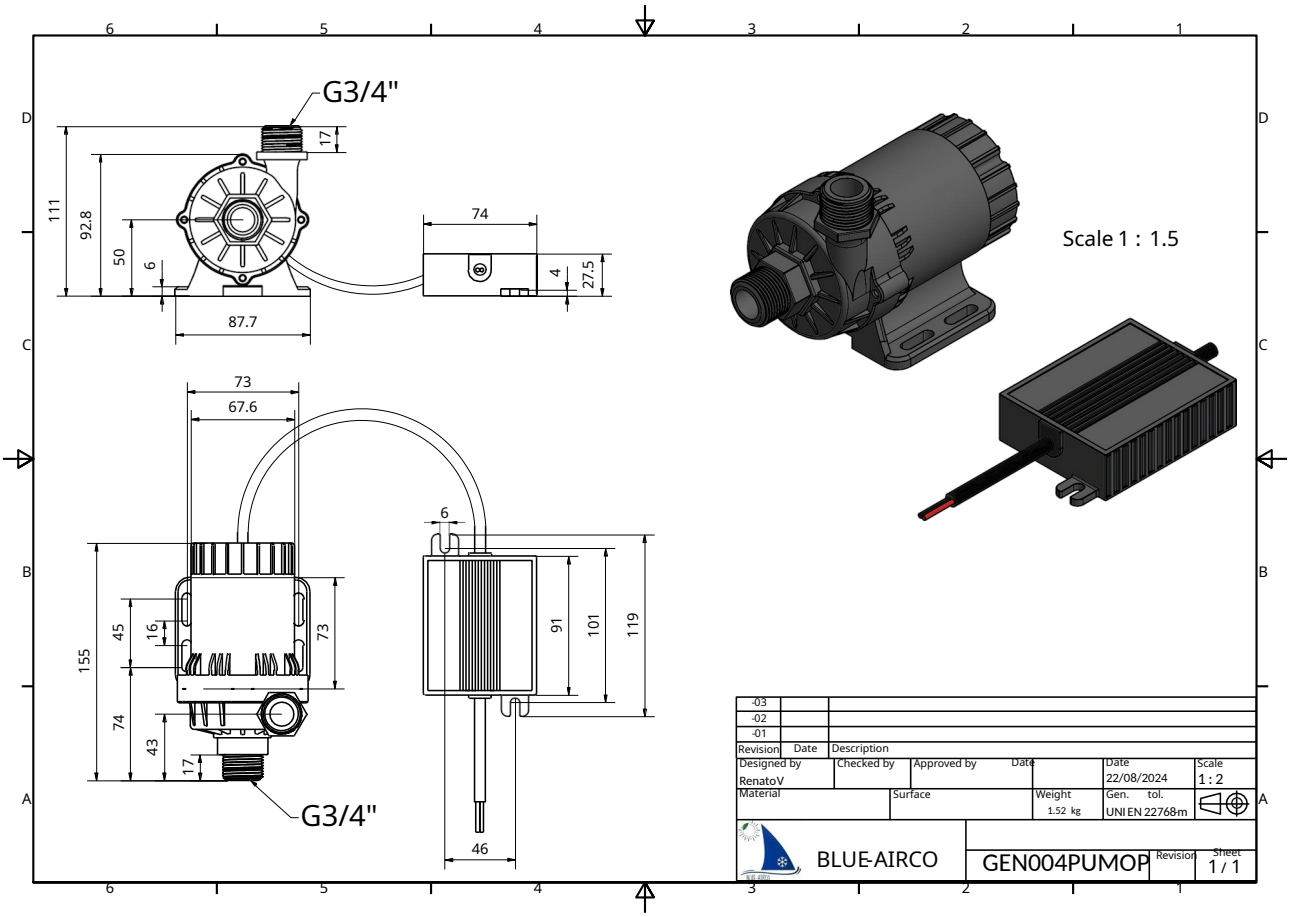
DIMENSIONAL DRAWING

GEN003PUMOP



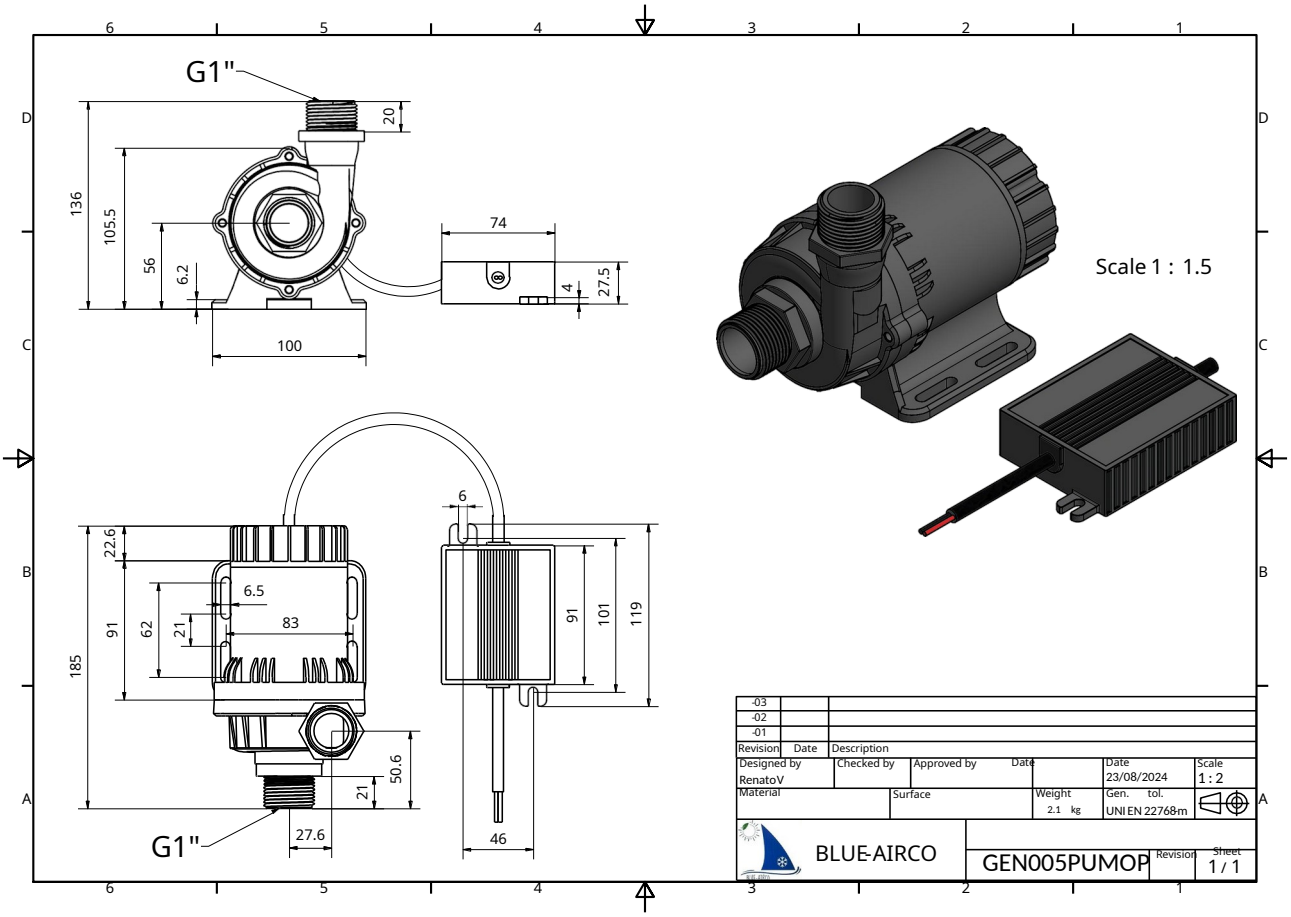
DIMENSIONAL DRAWING

GEN004PUMOP



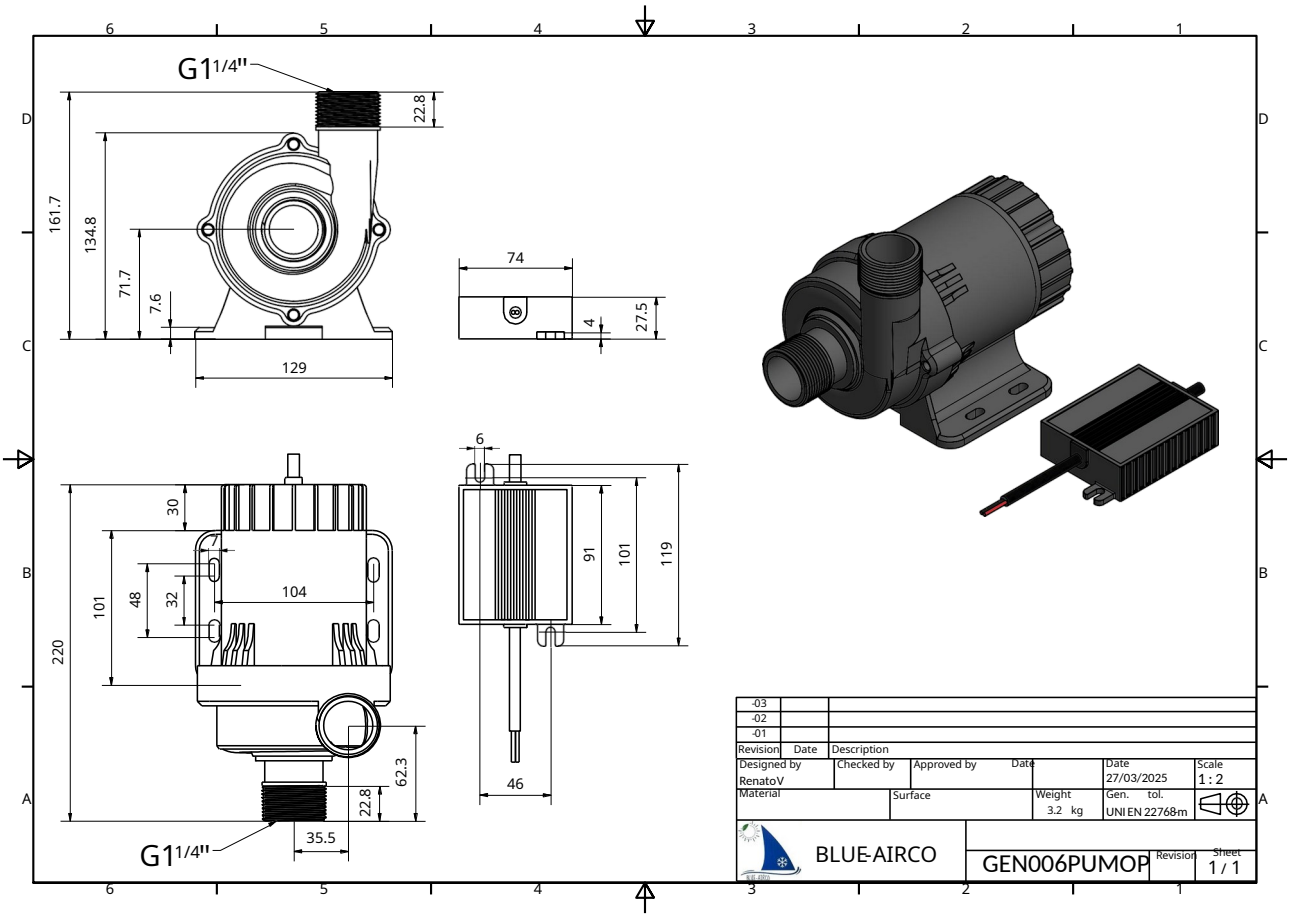
DIMENSIONAL DRAWING

GEN005PUMOP



DIMENSIONAL DRAWING

GEN006PUMOP



Nominal data. Specifications subject to technical changes. For correct sizing, check flow rate, head, pipe diameters, and seawater circuit configuration.