

SEAWATER COOLING PUMP RECOMMENDATIONS

PRODUCT All Seakeeper Models

DESCRIPTION

The following guidance is offered to help size and design seawater cooling systems for each of the Seakeeper products. Final pump selection and system design are the responsibility of the installer.

SEAWATER REQUIREMENTS PER MODEL

Model	Flow Rate Range (GPM/LPM)	Cooling Water Schematic Drawing #	Power Supply
SEAKEEPER 1	2 - 4 / 7.6 - 15.1	90512	12 VDC, 15A
SEAKEEPER 2	2 - 6 / 7.6 - 22.7	90490	12 VDC, 15A
SEAKEEPER 3	2 - 6 / 7.6 - 22.7	90376	12 VDC, 15A
SEAKEEPER 5/6	4 - 8 / 15.1 - 30.3	90397	110/220 VAC, 5A
SEAKEEPER 9	4 - 8 / 15.1 - 30.3	90251	220 VAC, 5A
SEAKEEPER 16/18	4 - 8 / 15.1 - 30.3	90540	24VDC, 10A (20 Max)
SEAKEEPER 26	4 - 8 / 15.1 - 30.3	90320	220 VAC, 5A
SEAKEEPER 35	10 - 14 / 37.9 - 53	90290	220 VAC, 5A

SYSTEM DESIGN NOTES

- For multiple Seakeeper installations, Seakeeper recommends that one dedicated seawater pump be installed per Seakeeper, so a pump failure does not render multiple Seakeeper unit inoperable. Each pump should be powered via the provided connections on the Seakeeper wire harness.
- Seawater pumps should be sized to account for friction losses through the plumbing run. If an oversized pump is used, and flow is found to exceed the maximum a flow-restrictor valve can be installed to regulate the flow with the Seakeeper specified limits. It is the responsibility of the installer to verify the flow rate through the system (at rest and at speed) via a flow meter, or the seawater discharge can be diverted into a bucket and flowrate is calculated by the time to fill a known volume.
- It is recommended that seawater travel in a continual upward direction from intake to outlet as much as practical to avoid air traps in the system.
- A complete list of plumbing recommendations for each Seakeeper model can be found in the Cooling Water Schematic (drawing numbers listed above).

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SEAKEEPER PUMP OPTIONS

Seakeeper offers a DC Seawater Pump Assemblies as an option for the following Seakeeper models which are covered un the Seakeeper Standard Warranty:

Seakeeper Model	Pump Manufacturer	Seakeeper Part Number	Power Supply	Nominal Flowrate
SEAKEEPER 1	SeaFlo	30331	12 VDC, 15A	3.5 GPM
SEAKEEPER 2	SeaFlo	30331	12 VDC, 15A	3.5 GPM
SEAKEEPER 3	SeaFlo	30331	12 VDC, 15A	3.5 GPM
SEAKEEPER 16/18	Jabsco	30322	24VDC, 10A	6.0 GPM

- Seakeeper P/N 30331 is a 24 VDC pump intended for 12 VDC operation with the Seakeeper 1/2/3.
- Seakeeper 5/6 and Seakeeper 9 will convert to DC power supply in 2021. See Cooling System Update Bulletin for more details.

ALTERNATIVE PUMP OPTIONS

The following list shows pumps that we have seen used with success on existing Seakeeper installations. This list is not meant to be complete and may be used only as a guide in the pump selection process.

12 VOLT DC PUMPS

Pump Manufacturer	Pump Model	Max Flowrate	Power Requirement
Jabsco Par-Max	31395-0092	2.9 GPM	12 VDC, 10A*
Jabsco Washdown Pump	82405-0092	4 GPM	12 VDC, 13A*
Pentair Shurflo Pro Blaster II	4248-153-A09	4 GPM	12 VDC, 10A*
Rule 500 GPH Baitwell Pump	401 C	8 GPM	12 VDC, 2.5A
Pro Blaster II Deluxe 4.0(A)	4248-153-E09	4 GPM	12 VDC, 10A*
Primetime	PT-12VDC-W	21 GPM	12 VDC, 15A*

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24 VOLT DC PUMPS

Pump Manufacturer	Pump Model	Max Flowrate	Power Requirement
Primetime	PT-24VDC-W	21 GPM	24 VDC, 10A
Pentair Shurflo Pro	4258-163-A09	5 GPM	24 VDC, 7A

110 VOLT AC PUMPS

Pump Manufacturer	Pump Model	Max Flowrate	Power Requirement
PrimeTime	PT-115VT-60-W	21 GPM	115 VAC, 0.250 KW
March	AC-5C-MD	17 GPM	110/220 VAC, 0.093KW
Dometic	PML500	6 GPM	115 VAC

220 VOLT AC PUMPS

Pump Manufacturer	Pump Model	Max Flowrate	Power Requirement
PrimeTime	PT-230VT-50/60-W	21 GPM	230 VAC, 0.250 KW
March	AC-5C-MD	17 GPM	110/220 VAC, 0.093KW
Dometic	PML500C	6 GPM	230 VAC

REVISION	DESCRIPTION OF CHANGES	DATE	APPROVED
3	Update Format, Include 24 V Pumps	21APR2020	JFK
4	Include Seakeeper 1 Details and 2 - 4 GPM 12 V Pumps	16JUN2020	JFK
5	Add Seakeeper Pump Options	26OCT2020	DMF