



**SERVICE
BULLETIN**

**Product:
ALL**

**Document #:
90189**

**Rev:
1**

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Procedure: HEAT EXCHANGER SPECIFICATIONS

Description: Heat Exchanger Flow Rate Specifications and Pressure Ratings

1. Purpose: The purpose of this bulletin is to provide the revised specifications and recommendations for seawater flow for our heat exchangers.
2. Background: It has been determined that excessive seawater flow through the heat exchanger can lead to accelerated erosion-corrosion of the heat exchanger. Based on this information, Seakeeper has set an upper limit on seawater flow.
3. Specifications: The following are the new specifications for flow and pressure for each of our heat exchangers:

M7000 / M7000A	Seawater flow requirement through the heat exchanger is between 2 GPM (7.6 LPM) and 4 GPM (15.1 LPM), with a maximum pressure of 20 psi (1.4 bar) for all operating conditions of the vessel.
M8000	Seawater flow requirement through the heat exchanger is between 4 GPM (15.1 LPM) and 8 GPM (30.2 LPM), with a maximum pressure of 20 psi (1.4 bar) for all operating conditions of the vessel.
M21000 / 21000A	Seawater flow requirement through the heat exchanger is between 4 GPM (15.1 LPM) and 8 GPM (30.2 LPM), with a maximum pressure of 20 psi (1.4 bar) for all operating conditions of the vessel.

4. Limiting Flow: If a seawater pump is installed that is delivering flow in excess of the specified amounts, a valve will need to be installed upstream of the heat exchanger to limit flow. If hardware is needed, please reference Seakeeper Service Bulletin 90190 for additional details.
5. Zincs: In addition to maintaining proper flow through the heat exchanger, it is recommended that any heat exchangers provided with zincs have zincs checked regularly and replaced once the zinc is one-half consumed.

REVISION HISTORY

REVISION	DESCRIPTION OF CHANGES	DATE	APPROVED
1	INITIAL RELEASE	23MAR12	BRD

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