



HEAT EXCHANGER WATER TANK OVERFLOW

SB168

May 10, 2019

PRODUCT NAMES: SmartCAFS and CAFSPro
AFFECTED PART NUMBER: 108-0641-00-0

This notice is to remind customers that Hale CAFS systems have a cooling line that continuously runs to the tank. Operating from draft or pressurized source directly may result in the tank being overfilled. This applies to all SmartCAFS and CAFSPro units.

Scenarios for operation:

- Pressurized source (relay/hydrant): Use the autofill system and run from tank, then the tank will not overflow.
- Draft: As normal operation the tank will overfill as a result of cooling for the CAFS system.

Hale CAFS systems have a plate heat exchanger that runs the hot lubricating oil from the compressor in parallel with the discharge water of the pump to cool the oil. To ensure the heat exchanger maintains adequate water flow, it must run to atmosphere, which we recommend is the water tank. Any back pressure on the system risks causing the water to stop flowing, which could result in triggering the compressor overheat auto shutoff.



PRODUCT DETAIL

- Plate style heat exchanger with connections and thermal bypass valve (supplied by Hale)
- 3/8" or 1/2" hose for connection to tank (supplied by OEM)
- 1/2" check valve (supplied by Hale)

Please see the following plate drawings for detail:

Heat Exchanger Drawing: [PL1000](#)
Hose Connection Drawing: [FSG-PL-01378](#)

LIST PRICE (US Dollars, FCA Free Carrier Our Dock, Ocala, FL USA Incoterms® 2010)

Heat exchanger is sold as a part of the configurable CAFS package.

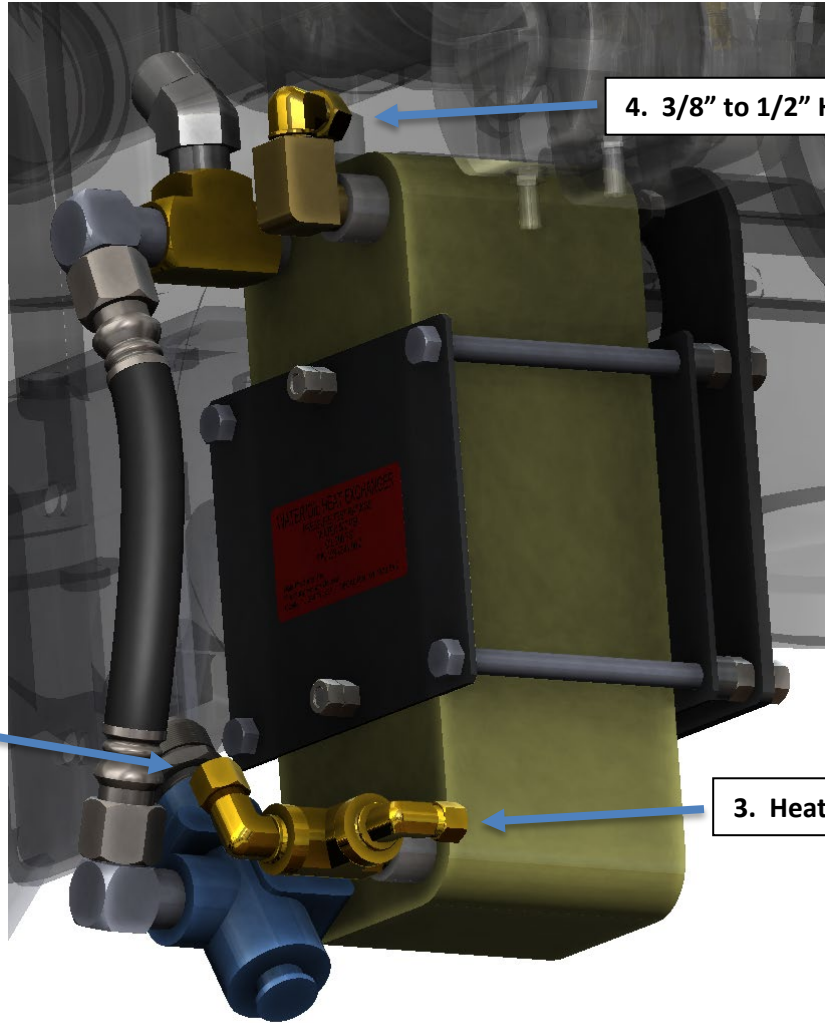
Instructions (see illustration on second page)

1. Heat exchanger is installed on unit by the Hale factory.
2. Water strainer will be mounted in an accessible location by OEM truck builder.
3. Drain will need to be run from heat exchanger on a downward path to a valve supplied by OEM. Draining is required for cold weather to prevent damage to heat exchanger.
4. Return line will need to be run from the top of heat exchanger to Hale supplied check valve installed on the water tank. Arrow on the check valve should be pointed to the tank.



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2. From Water Strainer

4. 3/8" to 1/2" Hose to Water Tank

3. Heat Exchanger Drain