

# MADDEN MANUFACTURING, INC.

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## Type 2 Sample Cooler Installation and Operation Instructions

### Installation:

1. Mount unit securely to support member with two 3/8" diameter bolts through mounting holes on mounting bracket on the top of the sample cooler.
2. Install cooling water supply line and control valve, install at 3/8" NPT cooling water inlet and outlet connections shown on the diagram.
3. Install sample valve and supply line to 1/4" NPT threaded inlet connection on top of the sample cooler, material and pressure rating of piping and valve must match the intended service.
4. Install sample outlet line to 1/4" NPT threaded outlet connection as shown on the diagram.
5. Test piping connections for leaks and repair as needed.

### Operation:

1. Open cooling water supply valve. Cooling water must continue running during the entire sampling operation.
2. Open valve on sample supply line. Let this line run free for a brief period to flush the supply line and the sample cooler so the sample being drawn will be fresh.
3. Adjust the sample supply valve until the sample flow is low enough to cool the sample adequately for safe handling of the sample, cool enough for your tests or testing equipment. The lower the rate of sample flow the more the sample will be cooled.
4. After drawing the fresh sample close both first the sample valve and then the cooling water valve.

### Type 2 Sample Cooler (pump seal flush cooler)

Part Number	Max PSI	Description	Weight lbs.	Dim A
SC101	300	Type 2, 1.3 sf copper coil area, 1/4" OD tube	25	13.38"
SC102	1,200	Type 2, 1.3 sf 316 SS coil area, 1/4" OD tube	25	13.38"
SC103	250	Type 2, 1.9 sf copper coil area, 3/8" OD tube	30	17"
SC105	1,200	Type 2, 1.9 sf 316 SS coil area, 3/8" OD tube	30	17"
SC106	1,200	Type 2, 3.8 sf 316 SS coil area, 3/8" OD tube	50	34"
SC107	5,000	Type 2, 3.8 sf 316 SS coil area, 3/8" OD tube	50	34"
SC108	5,000	Type 2, 1.9 sf 316 SS coil area, 3/8" OD tube	30	17"

Shell construction: 150 psi rating. Material: carbon steel

Shell rating: 150 psi

Form no. SC902-10

