



ATLANTA WAREHOUSE

3939 Royal Drive, Suite 139
Kennesaw, GA 30144

UTAH WAREHOUSE

647 West Billinis Road, Unit 1
Salt Lake City, Utah 84119

PRODUCT DATA SHEET

Chemworld Sample Coolers are a safe, economic, and convenient method of withdrawing water from boilers, steam lines, or tanks containing chemicals and for cooling the withdrawn liquid for subsequent chemical analysis.

This rugged counter flow heat exchanger is easy to install.

The inner coil is manufactured from Type 316 Stainless Steel and is of one piece construction.

Chemworld can also supply sample coolers with removable coils upon request.

Made in the USA.

Overall Length:	13 5/8"
Diameter of Shell	3 1/2" OD
Mounting:	Zinc Plated Steel pipe clamp
Weight:	13 lbs.

*1/2" FNPT - Type 304 Stainless Steel Cooling Water Fittings are also available

Part Number: ESC-SS

Shell:	Type 304 Stainless Steel
End Caps:	Type 304 Stainless Steel
Coil:	Continuous Coil of 316 S/S
Sample IN/OUT Adapters:	1/4" MNPT-Type 316 S/S
*Cooling Water Adapters:	3/8" - Type 304 SS
Max Coil Pressure:	2500 psi



Standard calculations provide the following results assuming a coolant inlet of approximately 55°F (12°C) and exit of approximately 120°F (50°C) and a sample exit of approximately 110°F (43°C).



ATLANTA WAREHOUSE

3939 Royal Drive, Suite 139
Kennesaw, GA 30144

UTAH WAREHOUSE

647 West Billinis Road, Unit 1
Salt Lake City, Utah 84119

Temperature Degrees (F)	Temperature Degrees (C)	Amount of coolant used per minute	Amount of Sample/min Produced
250°	120°	1 gpm	1500 cc
700°	370°	2.5 gpm	950 cc

SATURATED STEAM VAPOR:

The sample inlet and exit valves can be used to create various operating pressures in the cooler for producing samples from saturated steam vapor.

Operating Pressure	Amount of coolant used per minute	Amount of Sample/min Produced
175 psia	3.0 gpm	640 cc
25 psia	1.5 gpm	300 cc

SUPER HEATED STEAM:

Max. sample inlet temperature of 750°F (400°C).

Cooler Operating Pressure	Amount of coolant used per minute	Amount of Sample/min Produced
1000 psia	3.5 gpm	640 cc
20 psia	1.75 gpm	375 cc