



SAMPLE COOLER and SLUDGE TRAP

OPERATION & MAINTENANCE MANUAL



PLEASE RECORD THE FOLLOWING DATA
(Information is located on the product label or packing slip)

Product: _____

Model No: _____

Serial No: _____

Installation Date: _____

Installation Location / Application: _____

The above information will help when ordering replacement parts and accessories for your Wingert Sample Cooler or Sludge Trap.

J.L. WINGERT CO. MANUFACTURED PRODUCTS

Mixers, Bypass Feeders, Filter Feeders, Bromine Feeders, Sample Coolers, Sludge Traps, Separators, Separator Systems, Tank Stands, Tank Package Systems, Glycol Feed Systems, Coupon Racks, Control Stations, NEMA Enclosures, Custom Packaged Systems and Specialty Welding

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1.0 INTRODUCTION

Thank you for your purchase of a J.L. Wingert Sample Cooler or Sludge Trap. Wingert Sample Coolers are an effective way to reduce the temperature of a fluid for testing its quality. Wingert Sludge Traps allow for cleaning of the sample fluid of debris before it enters the Sampler Cooler, thus preventing the coils from clogging; increasing the life of the Sample Cooler.

2.0 WARRANTY

Wingert Sample Coolers and Sludge Traps are warranted against manufacturing defects in material and workmanship for one year from the date of shipment. Applications outside the service for which the product is designed, including any non-factory modifications, will automatically void any warranty. Items returned to J.L. Wingert Co. for warranty consideration must be transported via prepaid freight. Final warranty determination will be made upon inspection. J.L. Wingert Co. will, at their discretion, repair or replace any defective item. Any repair or replacement outside warranted limitations will be considered a repair order and quoted accordingly. All replacements will be F.O.B. factory. There are no other implied or expressed warranties.

3.0 UNPACKING

Wingert Sample Coolers and Sludge Traps are fully assembled and ready for installation. A Sample Cooler or Sludge Trap will be packed in a carton for shipping. Inspect packaging upon receipt for any damage. Unpack and inspect the product for damage and verify that goods received correlate with the packing list and product table on page 3. Verify that no packing material has obstructed the inlet, outlet or purge openings. Notify the factory of any discrepancies immediately upon receipt. If any product is damaged due to freight handling, contact the factory immediately for further assistance. It is recommended that photo documentation of any damage or discrepancy be supplied to support any claims.

NOTE: Most freight carriers allow only a limited time after receipt of goods to file a freight claim.

4.0 MODEL NUMBER VERIFICATION

SC - 2 - B - 316 / MB

OPTIONS	
/MB	MOUNTING BRACKET

COIL MATERIAL	
316	316 STAINLESS STEEL
600	ALLOY 600
COP	COPPER

END CONNECTIONS	
A	¼" OD PLAIN TUBING
B	¼" FNPT

COIL TYPE	
1	REMOVABLE COIL
2	FIXED COIL

BASE MODEL	
SC	SAMPLE COOLER

ST / MB

OPTIONS	
/MB	MOUNTING BRACKET

BASE MODEL	
ST	SLUDGE TRAP

5.0 LOCATION AND ENVIRONMENT

Wingert Sample Coolers and Sludge Traps require periodic inspection. Sample Coolers and Sludge Traps should be accessible from all directions for inspection. Sample Coolers with a removable coil will require special clearance.

6.0 SAFETY

J.L. Wingert equipment is designed and built with safety in mind. However, proper installation and operation is required for overall safety.

DO NOT INSTALL, OPERATE OR REPAIR THIS EQUIPMENT WITHOUT READING THIS MANUAL AND THE SAFETY PRECAUTIONS CONTAINED THROUGHOUT.

BE SURE THAT ALL INSTALLATION, OPERATION, MAINTENANCE AND REPAIR PROCEDURES ARE PERFORMED ONLY BY QUALIFIED INDIVIDUALS.

6.1 SAFETY HIGHLIGHTS

Read and understand the following safety highlights.



PRESSURE INSIDE THE UNIT

See design specification for maximum operating pressure. Do not perform maintenance or repair without first releasing pressure and draining the fluid from the unit.



EQUIPMENT IDENTIFICATION LABEL

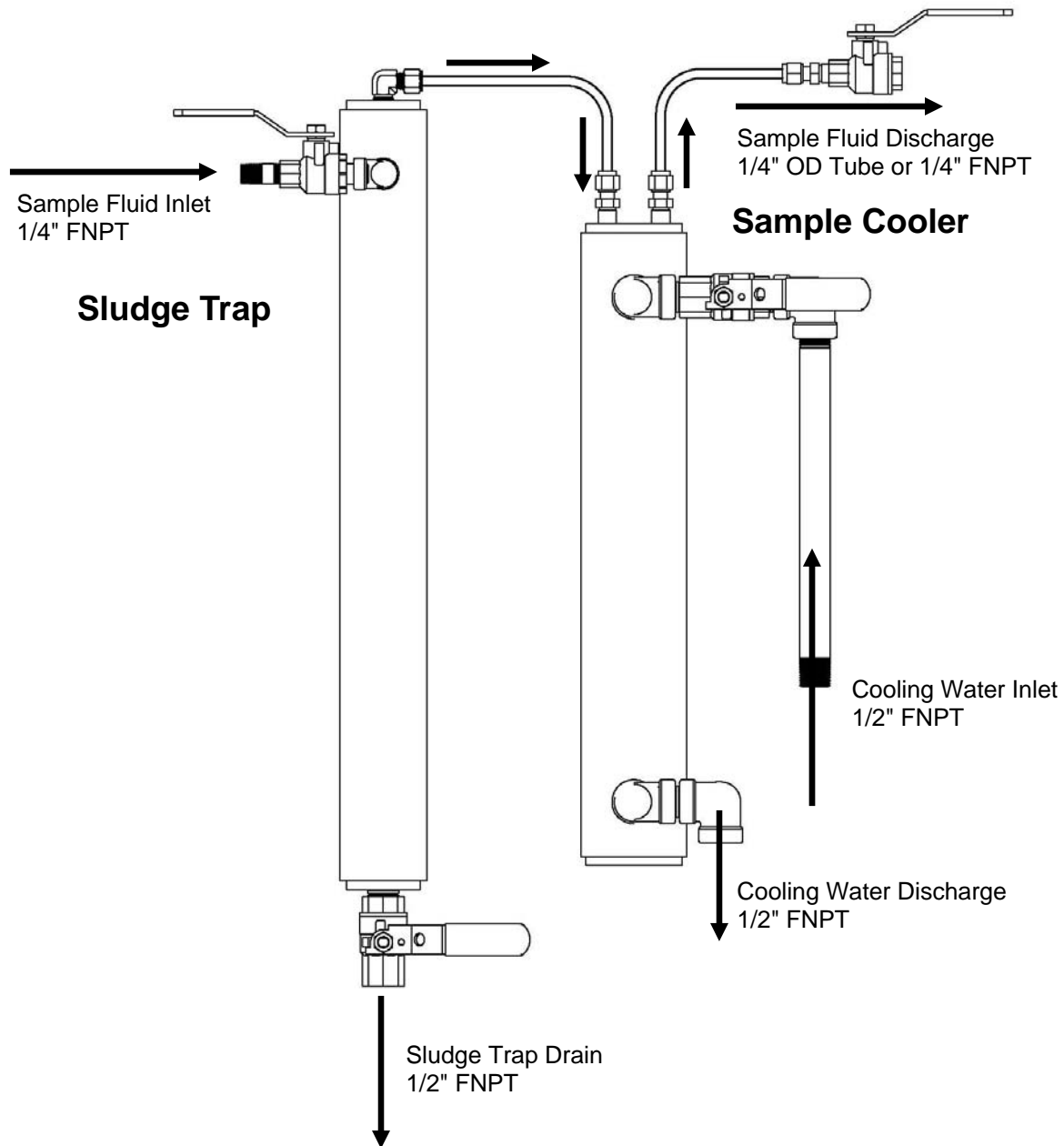
Identification label provides equipment information. Be sure the coil material and pressure ratings are as specified on the Equipment Identification Label and conform with your requirements.



7.0 INSTALLATION

CHECK LOCAL CODES PRIOR TO FINAL LOCATION AND MOUNTING

It is recommended to install a J.L. Wingert Sludge Trap in-line before the J.L. Wingert Sample Cooler. This will help keep the Sample Cooler coils clean of debris. Below is a recommended piping diagram for installing the Sludge Trap and Sample Cooler. J.L. Wingert does not recommend installing a valve on the Cooling Water Discharge. If a valve is installed on the Cooling Water Discharge and is not open, an unwanted increase in pressure can occur inside the shell resulting in damage to the Sample Cooler.



8.0 MAINTENANCE

Purging of the solids is the only maintenance that a Wingert Sludge Trap requires. Periodic inspection of the inlet and outlet ports is recommended for both Sample Coolers and Sludge Traps. If a Sample Cooler with a removable coil is purchased, periodic removal and inspection of the coil and the inside of the shell is required.

8.1 REMOVAL AND INSTALLATION OF THE COIL ON A REMOVABLE COIL SAMPLE COOLER

*Close the inlet sample valve as well as the inlet cooling water valve. Once the valves have been closed, completely relieve the pressure in the sample and cooling lines. Once the pressure has been relieved, disconnect the sample line from the system it is connected to. Once the sample line has been disconnected, remove the three (3) ¼-20 bolts that hold the coil assembly in the housing. Remove the coil assembly from the housing and inspect the coil and housing for any damage or excessive wear. Should damage or excessive wear exist, please contact the factory for a replacement coil. Wash off any residue from the housing or coil. Once the coil and housing have been inspected, install in the reverse order. **Make sure the o-ring does not get damaged in the removal or installation of the coil assembly.***

9.0 PRESSURE AND TEMPERATURE LIMITS

SAMPLE COOLER MAXIMUM OPERATING CONDITIONS		
MATERIAL	MAXIMUM PRESSURE	MAXIMUM TEMPERATURE
COIL		
316 SS	1500 PSI (103.4 bar)	600 °F (315.5 °C)
ALLOY 600	1500 PSI (103.4 bar)	600 °F (315.5 °C)
COPPER	300 PSI (20.6 bar)	400 °F (204.4 °C)
SHELL		
CARBON STEEL	200 PSI (13.7 bar)	250 °F (121.1 °C)

SLUDGE TRAP MAXIMUM OPERATING CONDITIONS		
MATERIAL	MAXIMUM PRESSURE	MAXIMUM TEMPERATURE
CARBON STEEL	1500 PSI (103.4 bar)	600 °F (315.5 °C)

11.0 RELATED PRODUCTS

J.L. WINGERT CO. SAMPLE COOLERS AND SLUDGE TRAP RELATED PRODUCTS



GLYCOL FEED SYSTEMS

With multiple standard models and a long list of custom options, these heavy-duty, automated systems deliver a comprehensive package with operational features that meet the needs of virtually any closed-loop system.

CORROSION COUPON RACKS

Manufactured in PVC, CPVC, carbon steel and stainless steel, these racks offer one to six coupon holders and inlet and outlet isolation valves. Optional flow accessories are available.

Consult factory for appropriate application based on temperature requirements.



BYPASS, FILTER AND BROMINE FEEDERS

Designed to add treatment chemicals to closed-loop systems, these feeders are available in multiple configurations, capacities and working pressures up to 300 PSI. Filter Feeders are capable of removing solids as small as one micron.

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