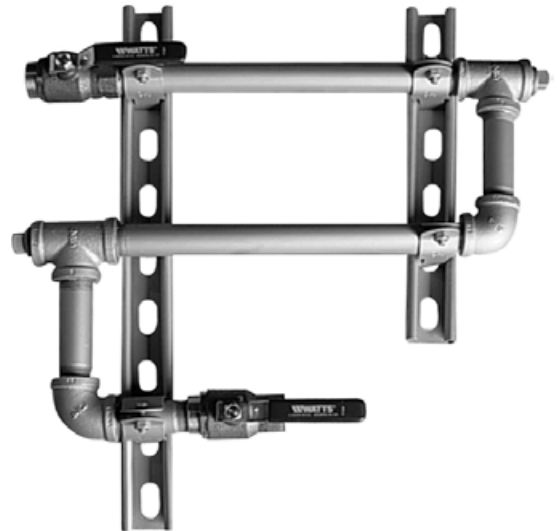
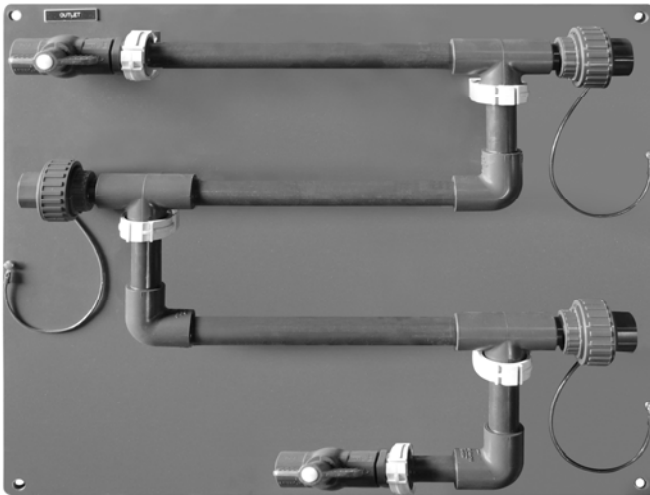


J.L. WINGERT CO.

CORROSION COUPON RACK 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 J.L. Wingert Corrosion Coupon Rack.

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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CONTENTS:	PAGE
1.0 INTRODUCTION	2
2.0 WARRANTY	2
3.0 UNPACKING	2
4.0 MODEL NUMBER VERIFICATION	3
5.0 LOCATION AND ENVIRONMENT	4
6.0 SAFETY	4
6.1 SAFETY HIGHLIGHTS	4
7.0 INSTALLATION	5
8.0 PRESSURE AND TEMPERATURE LIMITATIONS	5
9.0 FLOW RATE	5
10.0 SAMPLE COUPONS	5
11.0 MAINTENANCE	5

1.0 INTRODUCTION

J.L. Wingert Corrosion Coupon Racks are designed to closely monitor most water systems' corrosion rate. PVC and CPVC coupon racks are mounted to a 1/4" thick PVC backboard. Carbon steel and stainless steel models are mounted on 7/8" Unistrut®. Plastic models come standard with uniquely designed quick disconnect coupon holder(s) which require no tools or sealing tapes. Carbon steel and stainless steel models use a plug and rod design coupon holder. Wingert Corrosion Coupon Racks standard models are available in PVC, CPVC, carbon steel and 316 stainless steel with one to six coupon holders and isolation valves. Corrosion coupon racks may be installed either vertically or horizontally.

2.0 WARRANTY

Wingert Corrosion Coupon Racks 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 Company for warranty consideration must be transported via prepaid freight. Final warranty determination will be made upon inspection. J.L. Wingert Company 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 Corrosion Coupon Racks are fully assembled and ready for installation. A coupon rack may be packed in a carton or shipped secured to a shipping pallet. 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

PCR	-3	-007	/01-05
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OPTIONS	
01	1/4" Sample valve and installation tee
03	Check valve and nipple
04	Clear PVC Y-Strainer and nipple
05	Y-Strainer and nipple
07	1 to 10 GPM flow indicator
08	1 to 10 GPM adjustable flow indicator
17	3 FPS flow control valve
18	5 FPS flow control valve
19	Clear piping

PIPE SIZE	
007	3/4" Pipe
010	1" Pipe

NUMBER OF COUPON HOLDER	
1	1 Coupon Holder
2	2 Coupon Holder
3	3 Coupon Holder
4	4 Coupon Holder
5	5 Coupon Holder
6	6 Coupon Holder

MATERIAL	
PCR	PVC Schedule 80
CCR	CPVC Schedule 80
CSCR	Carbon Steel Schedule 40
SSCR	316 Stainless Steel Schedule 40



5.0 LOCATION AND ENVIRONMENT

Corrosion Coupon Racks are designed for indoor/outdoor applications. PVC and CPVC models should not be exposed to direct sunlight. Carbon steel and 316 stainless steel models can be exposed to direct sunlight. All application parameters should be checked for maximum temperature, pressure and chemical compatibility.

6.0 SAFETY

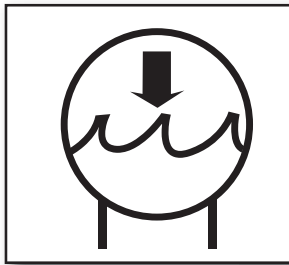
J.L. Wingert Company's equipment is designed and built with safety in mind. However, proper installation and operation can increase your overall safety.

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.



WATER PRESSURE INSIDE THE UNIT

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



EQUIPMENT IDENTIFICATION LABEL

Identification label provides equipment information.

7.0 INSTALLATION

Install corrosion coupon rack to wall or panel utilizing appropriate hardware. DO NOT over tighten mounting bolts on PVC and CPVC models. A minimum of 11" is required to remove the coupon holders.

Corrosion coupon racks are designed to be mounted either horizontally or vertically. The factory standard setting is horizontal. Be sure to plumb system flow from bottom to top on the corrosion coupon rack.

8.0 PRESSURE AND TEMPERATURE LIMITATIONS

TEMPERATURE (°F/°C)	NON-SHOCK PRESSURE RATING							
	PVC		CPVC		CARBON STEEL (CS)		316 STAINLESS STEEL (SS)	
	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR
73° / 23°	150.0	10.4	235.00	16.2	300	20.6	300	20.6
90° / 32°	112.5	7.7	213.85	14.6	300	20.6	300	20.6
110° / 43°	75.0	5.2	180.95	12.4	300	20.6	300	20.6
130° / 54°	45.0	3.1	145.70	9.9	300	20.6	300	20.6
150° / 66°	N/A	N/A	110.45	7.5	300	20.6	300	20.6
200° / 93°	N/A	N/A	47.00	3.2	265	18.2	265	18.2
250° / 121°	N/A	N/A	N/A	N/A	185	12.7	185	12.7

NOTE: Pressure/Temperature ratings are for standard units only. To see pressure and temperature limitations for options, please refer to the specific option specification sheet.

9.0 FLOW RATE

Flow rate determination is a critical part of installing a corrosion coupon rack. Your water consultant or chemical supplier should be able to help you. If not, contact the factory for assistance. A velocity of 3-5 feet per second (fps) is ideal.

10.0 SAMPLE COUPONS

Wingert Corrosion Coupon Racks are not supplied with sample coupons. Coupons may be obtained from your local supplier, through your water consultant or chemical supplier. Typically coupon suppliers also provide lab analysis of the corrosion rate.

11.0 MAINTENANCE

BE SURE TO CLOSE THE ISOLATION VALVES SUPPLIED BEFORE DOING ANY MAINTENANCE.

Corrosion coupon racks need very little maintenance. The only maintenance needed is infrequent checking for leaks or cracks that may be created by water hammer or abuse. When ordered, Y-Strainers may need servicing depending on system cleanliness.

J.L. WINGERT CO.

MANUFACTURED PRODUCTS



Mixers

Portable liquid mixers from 1/20 HP to 5 HP / High speed 1725 RPM, low speed 60 RPM and 350 RPM heavy duty mixers to handle a variety of mixing applications from 30 gallons up to 5,000 gallons @ 2,000 CPS

Separators

Separate solids such as sand, dirt, metal chips and sludge from liquid without the use of filter media / Remove equipment damaging solids down to 40 microns with standard flow rates from 8 to 13,953 GPM / Larger sizes are available on custom basis

Clean Tower Separator Systems

A powerful solids-removing system combining a centrifugal separator with a 90 TDH pump, basket pre-strainer, recovery tank and NEMA 4 control panel mounted on a carbon steel skid / Flow rates from 38 - 1,200 GPM to handle basin volumes from 190 gallons to 6,000 gallons and up, and side stream flow rates from 380 to 12,000 GPM

Bypass, Bromine and Filter Feeders

Designed for the safe and reliable introduction of treatment chemicals into closed loop circulating systems / Standard models from 1 to 18 gallons with a complete selection of optional features and accessories / Larger capacities available on custom basis

Corrosion Coupon Racks

The water professional's preferred choice for accurate corrosion monitoring. Available in PVC, CPVC, carbon and stainless steels with 1-6 coupon stations

Sample Coolers and Sludge Traps

Cool sample liquids for testing up to 600° F at 1,500 PSI / Available in stainless steel, Inconel or copper sample tube material / Wingert Sludge Traps help prolong the life of process equipment in a cooling sample line by removing sediment and sludge

Tanks and Tank Stands

Standard polyethylene and polypropylene tanks in a wide range of capacities, manufactured in cylindrical, rectangular and cone bottom shapes to meet a variety of industrial applications

Tank Package Systems

Offered in polyethylene, carbon steel and stainless steel in top and bottom mount configurations / All tank packages come standard with a drain valve, strainer and visual representation of tank level

Glycol Feed Systems

Completely automated systems available in a wide range of tank capacities in single or dual pump configurations / High temperature systems and a variety of optional features

Control Stations

Industrial work stations, pump stations, control shelves, floor and wall mount racks that allow for proper installation and easy maintenance of your pumps and controllers

Custom Systems

Custom system expertise to meet the needs of today's demanding marketplace