

# SPECIFICATIONS

## GIRTON CONTAINER RINSER MODEL CR10

Specification No. **CR10**

For Company Name

### 1. DESCRIPTION

The rinser shall be completely packaged with all piping and electrical wiring for single service connections. The machine is designed to rinse the interior of various containers.

### 2. REGULATIONS, CODES AND STANDARDS

All engineering, design, manufacture and testing conforms to all applicable sections of the latest edition of the following codes, standards and specifications in effect at the time of order:

**ASME-BPE** - American Society of Mechanical Engineers

**ANSI** - American National Standard Institute

**ASTM** - American Society for Testing and Materials

**OSHA** - Occupation Safety and Health Administration

**NEMA** - National Electrical Manufacturers Associates

**NEC** - National Electrical Code

**cGMP** - Current Good Manufacturing Practices (CFR Title 21 parts 210 and 211)

**NFPA** - National Fire Protection Association

**UL508A** – Industrial Control Panels

### 3. DIMENSIONS AND WEIGHT

- 3.1. Load Height: 27"
- 3.2. Overall Height:
- 3.3. Overall Width: 30"
- 3.4. Operational Weight: 250 lbs.

### 4. CONSTRUCTION

#### 4.1. Material Type and Finish:

- 4.1.1. **Rinsers:** 14 gauge, T-304 T-316L stainless steel  
Finish: mill finish (2B) 35Ra or better 15Ra 8.5Ra
- 4.1.2. **Drum Hold Down:** T-304 T-316L stainless steel
- 4.1.3. **Compressed Air:**  
Tubing Poly-flo T-304 stainless steel.
- 4.1.4. **Potable Water Supply Ball Valves:** T-304 stainless steel

- 4.1.5. **Water Jets and Piping:** T-316L stainless steel  
Interior Finish: 35Ra or better Electro-polished to 15 Ra finish 20Ra  
Exterior Finish: 35Ra or better
- 4.1.6. **Tri-Clamp Clamps:** T-304 stainless steel
- 4.1.7. **Fasteners:** T-304 stainless steel
- 4.2. **Unit Design:**  
The equipment is designed to be shipped and installed as a **single unit**. Some parts may be removed prior to shipping (i.e., pumps) to decrease the possibility of damages during shipping. The maximum crate size will be approximately 30" wide x 30" long x 30" high with an estimated weight of 250 lbs.
- 4.3. **Size of Containers:**
- 55 Gallon stainless steel drums
  - 55 Gallon plastic drums
  - 30 Gallon stainless steel drums
  - 30 Gallon plastic drums
- 4.4. A **manual stainless steel hold-down** will be provided to hold the various size containers in place during operation.
- 4.5. All **internal corners** have a minimum 5/16" radius.
- 4.6. All visible **welds** on the rinser are ground and polished.
- 4.7. The **interior** is constructed to permit free draining and designed not to retain any of the process solutions.
- 4.8. **Potable water supply ball valves** are threaded connections.
- 4.9. **Tri-clamp connection** use **EPDM gaskets** and are connected by means of heavy-duty clamps with wing nuts.
- 4.10. **Seals, gaskets, and bearings** are compatible with the temperatures and concentrations of cleaning agents to be used. Customer will supply information on chemicals to be used.
- 4.11. A **compressed air system** is supplied with a filter regulator.
- 4.12. The washer is piped and wired for **single service connection** for each utility requirement.

## 5. CONTROLS AND OPERATION

- 5.1. The wash program will be controlled by an **Allen Bradley Micrologics PLC**, mounted in a T-304 stainless steel enclosure and will be remote mounted on a wall nearby. (Mounting and interconnecting wiring by others.)
- 5.1.1. The following switches and indicators will be located on the front of the control panel:
- a. Start Switch
  - b. System On Light
  - c. Emergency Stop Switch
- 5.1.2. This enclosure will also include necessary function relays, terminal blocks, control circuit fuse, etc.
- 5.1.3. The remote mounted control enclosure will be fabricated with two (2) compartments to house the electrical components separate as well as the purified water and compressed air valves. A 2" flange will be provided to attach the enclosure to the wall. Service to the panel will be from the front.
- 5.2. Girton control panels will be designed, manufactured and labeled as per **UL508A**.
- 5.3. The washer is equipped with **Emergency Stop** switches located at critical points on the machine. All doors are equipped with limit switches wired directly to the output voltage. Opening any door will disconnect voltage from output cards thereby shutting down the system. These switches are also wired as inputs to the PLC so that an alarm may be generated. All services are equipped with fail-closed-valves.
- 5.4. A **safety switch** will be provided to rinser, operate only if a container is in proper position.

## 6. SERVICE REQUIREMENTS

- 6.1. **Electrical:** 1 phase, 60 cycle, 120 volt, 20 amperes.
- 6.2. **Hot Water:** 180°F. Recommended minimum rate of flow of 8 gallons per minute. 1" T-C connection to the machine.
- 6.3. **Drain:** 2" NPT from the machine to the drain.
- 6.4. **Compressed Air:** 1/4" T-C connection, 25-PSI minimum, 5 CFM.

## 7. WARRANTY

- 7.1. Girton Manufacturing Co., Inc. warrants equipment of original manufacture against defect in workmanship and material for a period of one year from date of shipment. Provided; however, the equipment has been operated under normal working conditions for such said equipment, that it has been properly serviced and cared for, and that no adjustments have been made by unauthorized personnel that could adversely affect the operation or life of the equipment.

Girton Manufacturing Co., Inc. will replace or repair defective merchandise at its plant, FOB Millville, PA, if after inspection; the equipment or components that Girton manufactured are defective. Girton Manufacturing Co., Inc. extends to its customers on all purchased components parts, the warranty of the supplier of such said parts.

No expense, liability, or responsibility will be assumed by Girton for repairs outside Girton's factory, without written authority from Girton Manufacturing Co., Inc.

The foregoing warranty excludes all other warranties, guaranties, and/or representations; whether expressed, implies, or oral, INCLUDING, BUT NOT LIMITED TO, ALL CONDITIONS AND EXCLUSIONS OF IMPLIED WARRANTY OF MERCHANTABILITY AND OR FITNESS FOR THE PURPOSE, and the warrantor's liability for any direct damage arising from a legally proven breach of the warranty hereby extended is limited to the customer's invoice cost of the goods warranted.

- 7.2. DISCLAIMER OF CONSEQUENTIAL DAMAGES LIABILITY - Girton Manufacturing Co., Inc. shall not be liable for consequential damages of any kind, including incidental labor or other costs.

## 8. CANCELLATION

- 8.1. Any order on which work had been started may be cancelled only by consent of Girton Manufacturing Co., Inc. and by agreement on the part of the purchaser to cover whatever cost has been incurred, if any, to the date of the cancellation, including engineering, administrative, material purchases, labor, and overhead expended.

## 9. CUSTOMER TO WITNESS PRELIMINARY FACTORY ACCEPTANCE TEST (FAT)

- 9.1. Customer may witness preliminary testing performed at Girton Manufacturing Co., Inc. prior to shipment to customer's facility.

Customer will supply adequate samples of the items being washed. If customer specifies a particular chemical to be used, they shall supply it, complete with a MSDS Report. Customer shall be responsible for disposal or removal of excess chemical from premises.

- 9.2. **Factory Acceptance Test (FAT)** – Girton Manufacturing Co., Inc. will provide the necessary personnel for a maximum of 3 days to assist with the Factory Acceptance Test (FAT). The Girton Factory Technicians will work with the customer's personnel in verifying the washer is built and operates according to the FAT documentation.

## 10. DOCUMENTS

- 10.1. **Approval Documents** will be provided to the Customer in \_\_\_days weeks after receipt of order. Production work will not be initiated until these drawings are returned to Girton Manufacturing Co., Inc. with the appropriate signatures of the customer.

## 11. INSTALLATION

- 11.1. Installation will be **done by others**.

**Supervision of installation by Girtons** - Girton Manufacturing Co., Inc. will provide a technician for \_\_\_\_\_ (# of days) who will work with the customer's in-house personnel or with an outside contractor. The technician(s) will provide instructions for all phases of re-assembly including moving the equipment, leveling, re-assembly, and connection to utilities for an additional fee. Additional days are billed at \$\_\_\_\_\_.00 per day.

**Set-in-place installation by Girtons -**

Girton Manufacturing Co., Inc. will provide the necessary non-union labor to re-assemble the equipment and make it ready for utility connections at the customer's site. The customer will be responsible for receiving the equipment, unloading and moving it to the area where it is to be installed prior to Girton's arrival and for connecting the utilities.

Girton Manufacturing Co., Inc. will provide the necessary union labor to re-assemble the equipment and make it ready for utility connections at the customer's site. The customer will be responsible for receiving the equipment, unloading and moving it to the area where it is to be installed prior to Girton's arrival and for connecting the utilities.

**Complete installation by Girtons**

Girton Manufacturing Co., Inc. will provide the necessary non-union labor and material to perform a complete installation of the equipment. This includes receiving the equipment at the customer's site, unloading, uncrating, move in place, re-assembly and connection to existing utilities. The utilities must be within 4 feet from the equipment.

Girton Manufacturing Co., Inc. will provide the necessary union labor and material to perform a complete installation of the equipment. This includes receiving the equipment at the customer's site, unloading, uncrating, move in place, re-assembly and connection to existing utilities. The utilities must be within 4 feet from the equipment.

## 12. TERMS AND CONDITIONS

- 12.1. Payment Terms:  
Please consult Factory
- 12.2. The 6% PA sales tax will be assessed on all sales. If you believe the products covered by this proposal are exempt from this tax, please send to Girton Manufacturing Co., Inc. your PA sales tax exemption certificate.

## 13. SHIPPING

- 13.1. Freight terms:  
 Collect  
 Prepaid  by customer  and add to Invoice  
 Third Party Billing
- 13.2. Shipment will be provided by  transportation arranged by Girton Manufacturing Co., Inc.  
 customer.
- 13.3. Shipment from Millville, PA \_\_\_ to \_\_\_ weeks, after receipt of Approved Drawings by Girton Manufacturing Co., Inc.

## 14. TOTAL COST PER SPECIFICATION, CONSULT FACTORY

## 15. OPTIONS

- 15.1. **1 Hard copy and 1 electronic copy of Girton Documentation Package.** Validation requirements and considerations are playing an increasingly major role in the purchase of new equipment or systems. Validation requires documented evidence that the equipment or system will reliably perform in a manner consistent with the original design specifications. Generation of this documentation needs to be considered at the inception of the project and implemented throughout the design and manufacturing stages of the equipment. In most instances, the equipment vendor is the most qualified party to generate the majority of the required documentation.

The documentation provided by Girton Manufacturing Co., Inc. is designed to be a complete package including all data and checklists necessary to qualify the installation and operation of the equipment and/or system. All equipment built by Girton is completely factory assembled and tested. The

documentation is used to perform Factory Acceptance Testing; witnessed and approved by the customer. All tests necessary for Installation and Operation Qualification of the equipment are performed on the equipment prior to its arrival on the job-site. Any modifications or additions required to qualify the equipment can be made at the factory prior to shipment.

This index lists all documentation supplied by Girton Manufacturing Co., Inc.

## **1 DRAWINGS**

### **DRAWINGS**

Installation/General Arrangement

P&ID – Piping and Instrumentation Drawing

### **ELECTRICAL SCHEMATICS & PANEL DRAWINGS**

ELECTRICAL SCHEMATICS - 3 Phase Wiring Diagrams, Control Wiring Diagrams, I/O Wiring Diagrams

PANEL LAYOUTS - PLC Panel Layout, Motor Starter Panel Layout

AIR PIPING SCHEMATICS

## **2 EQUIPMENT DATA**

### **INSTRUMENT LIST**

Tag numbers, manufacturer, model number, serial number, and description for all instruments installed on the washer.

### **MECHANICAL EQUIPMENT LIST**

Component description, manufacturer, model number, and materials of construction.

### **CONTROL SYSTEM COMPONENT LIST**

Tag numbers, manufacturer, model number, serial number, and description for all control system components installed on the washer.

### **EQUIPMENT LUBRICATION LIST**

List of lubricants used to maintain the washer.

### **USER MANUAL**

Instructions for operating the equipment including loading, unloading, control system operation, and safety precautions. Maintenance schedules and repair procedures for all equipment and instruments.

### **CALIBRATION AND CERTIFICATION**

Calibration sheets, certifications and procedures for calibrating all critical instruments provided by Girton.

### **(SHORT TERM) PRICED SPARE PARTS LIST**

#### **PRICED SPARE PARTS LIST**

Listing of replacement parts and their corresponding order numbers. Instructions on information required when ordering replacement parts.

### **COMPONENT CATALOG BROCHURES**

Manufacturer's catalog information concerning installation, operation, and maintenance procedures for all purchased mechanical equipment and instruments.

### **CUSTOMER SERVICE POLICY**

Tells about the warranty, damages, replacement parts, returned merchandise, field service, cancellation, and special equipment.

## **3 SOFTWARE DATA**

### **QUALITY AND PROJECT PLAN**

Defines the quality and project objectives for the washer and its automated control system.

### **FUNCTIONAL SPECIFICATION**

Outlines functional requirements for the equipment.

### **HMI & PLC DESIGN SPECIFICATIONS**

This document defines the hardware and software specifications for the washer and its component parts. The purpose of this document is to describe the complete operation of the automated process control system for the washer.

### **PROGRAMS ON CD**

### **RS VIEW**

Reports generated by the display software, which define screen elements and tag numbers corresponding to PLC addresses.

## **PLC RS LOGIX 500 PROJECT REPORT**

Annotated listing of all code used to implement the software design.

### **4 FACTORY ACCEPTANCE TEST**

ABXXX FAT Instructions / Reference  
ABXXX Section 02 FAT Approval Drawing Review Test  
ABXXX Section 03 FAT Instrument Tests  
ABXXX Section 04 FAT Mechanical Equipment Tests  
ABXXX Section 05 FAT Electrical Tests  
ABXXX Section 06 FAT Utility Tests  
ABXXX Section 07 FAT Control System Hardware Tests  
ABXXX Section 08 FAT Control System Software Tests  
ABXXX Section 09 FAT Calibration Tests  
ABXXX Section 10 FAT HMI Tests  
ABXXX Section 11 FAT Operation Tests  
ABXXX Section 12 FAT Alarm Tests  
ABXXX Section 13 FAT Power Failure Tests  
ABXXX Section 14 FAT Summary Report Tests  
ABXXX Section 15 FAT Project Tests  
ABXXX FAT Signature Log  
ABXXX FAT Instrument Log  
ABXXX FAT Exception Log  
ABXXX FAT Test Progress Sheet  
ABXXX FAT Exception Form

### **5 PASSIVATION & PUNCHLIST REPORTS**

Passivation Procedure  
Passivation Report  
Completed Punchlist

## **VOLUME 3 OF 4**

### **6 SITE ACCEPTANCE TEST**

ABXXX SAT Instructions / Reference  
ABXXX Section 02 SAT Approval Drawing Review Test  
ABXXX Section 03 SAT Instrument Tests  
ABXXX Section 04 SAT Mechanical Equipment Tests  
ABXXX Section 05 SAT Electrical Tests  
ABXXX Section 06 SAT Utility Tests  
ABXXX Section 07 SAT Control System Hardware Tests  
ABXXX Section 08 SAT Control System Software Tests  
ABXXX Section 09 SAT Calibration Tests  
ABXXX Section 10 SAT HMI Tests  
ABXXX Section 11 SAT Operation Tests  
ABXXX Section 12 SAT Alarm Tests  
ABXXX Section 13 SAT Power Failure Tests  
ABXXX Section 14 SAT Summary Report Tests  
ABXXX Section 15 FAT Project Tests  
ABXXX SAT Signature Log  
ABXXX SAT Instrument Log  
ABXXX SAT Exception Log  
ABXXX SAT Test Progress Sheet

**7 WELDING**

- Procedure Qualification Record (PQR)
- Weld Procedure Specifications (WPS)
- Welding Procedure Qualifications (WPQ)
- Weld Inspector Qualifications
- Weld Logs and Weld Maps.

**8 CERTIFICATIONS**

Material Certifications sent with raw materials and some instruments ordered specifically for this project

- Work Order Trace Report
- Material Test Reports
- Certificates of Conformance/Compliance

15.2. **Additional copies of our Documentation Package** (reference item # \_\_\_\_\_ of this specification) may be purchased.

15.3. **Optional Documentation:**

- 15.3.1. Surface Finish Map and Certificate of Compliance
- 15.3.2. Slope Map of Process Contact Tubing and Certificate of Compliance
- 15.3.3. Video Weld Logs
- 15.3.4. Sound Level Certificate of Conformance

15.4. **Supervision of installation (YSOFI)** – Girton Manufacturing Co, Inc. will provide ONE Qualified Technician for \_\_\_ on-site days to Supervise and Direct Customer Personnel, Contractors or Subcontractors in all phases of Installation. This includes oversight of Uncrating and Moving the Equipment into a prepared<sup>(1)</sup> Wash Room, Leveling and Reassembly, Utility<sup>(2)</sup> and Additional Support Systems<sup>(3)</sup> Connections. Supervision of Unloading the Shipping Truck will be performed *only if* delivery occurs during the scheduled timeframe.

Supervision of Installation (Sofl) does **not** include Sub-Contracting, Equipment or Tools or Tool Rental, Dumpsters and/or Trash Disposal, Multiple Trips from our Factory (except at our discretion and as deemed necessary by our Technical Service Manager), Additional Site Preparation, Materials for Floor Protection, Integration Materials or Fabrication (other than Modular Walls, Fascia Panels, and items purchased from Girton Mfg. as an option), Equipment Start Up, Training of Personnel or Assisting with SAT or Validation Documentation.

The Customer will be responsible for all facets of installation not specifically included above. Equipment Start Up, Training of Personnel, Assisting with SAT or Validation Documentation may be purchased from Girton separately.

A Field Report will be submitted to the Customer within one week of completion of the installation.

Supervision of Installation is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_.00 per day, but should be purchased prior to the first on-site day, if possible. This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

15.5. **Set-in-place Installation (YSIP)** - Girton Manufacturing Co, Inc. will provide Qualified Technicians for \_\_\_ on-site days to Unload and Uncrate, Move the equipment to a prepared<sup>(1)</sup> location, Reassemble and Level the Equipment. Girton Manufacturing Co, Inc. will provide all Personnel, Material, Tools and Equipment to perform the task, including Fork Trucks, Dumpsters, Welders, Hand Tools, Floor Protection and Trash Elimination.

Set-In-Place Installation (SIP) does **not** include Utility<sup>(2)</sup> Connections, Connection of Additional Support Systems<sup>(3)</sup>, Multiple Trips from our Factory (except at our discretion and as deemed necessary by our Technical Service Manager), Additional Site Preparation, Integration Materials or Fabrication (other than Modular Walls, Fascia Panels, etc., purchased from Girton Mfg. as an option), Equipment Start Up, Training of Personnel or Assisting with SAT or Validation Documentation.

The Customer will be responsible for all facets of installation not specifically included above. Equipment Start Up, Training of Personnel, Assisting with SAT or Validation Documentation may be purchased from Girton separately.

A Field Report will be submitted to the Customer within one week of completion of the installation.

Set-In-Place Installation is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_.00 per 8 Hr. man-day, but should be purchased prior to the first on-site day, if possible.

This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

- 15.6. **Complete Installation (YINSTALL)** - Girton Manufacturing Co, Inc. will provide Qualified Technicians for \_\_\_ on-site days to Unload, Uncrate, Move the equipment to a prepared<sup>(1)</sup> location, Reassemble, Level the Equipment and Connect Utilities<sup>(2)</sup> to **existing stubs** within 6' of the machine. Girton Manufacturing Co, Inc. will provide all Personnel, Material, Tools and Equipment to perform the task, including Fork Trucks, Dumpsters, Welders, Hand Tools, Floor Protection and Trash Elimination. Test and Demonstration (see below) is part of this option. If this cannot be completed contiguously (due to unavailable utilities, Customer personnel availability, etc.), a return trip must be scheduled and additional travel expenses will apply.

Complete Installation (CI) does **not** include Multiple Trips from our Factory (except at our discretion and as deemed necessary by our Manager), Additional Site Preparation, Connection of Additional Support Systems<sup>(3)</sup>, Integration Materials or Fabrication (other than Modular Walls, Fascia Panels, etc., purchased from Girton Mfg. as an option), Equipment Start Up, Training of Personnel or Assisting with SAT or Validation Documentation.

The Customer will be responsible for all facets of installation not specifically included above. Equipment Start Up, Training of Personnel, Assisting with SAT or Validation Documentation may be purchased from Girton separately.

A Field Report will be submitted to the Customer within one week of completion of the installation.

Complete Installation is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_.00 per 8 Hr. man-day, but should be purchased prior to the first on-site day, if possible.

This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

- 15.7. **Test and Demonstration (YTD)** - Girton Manufacturing Co, Inc. will provide ONE Qualified Technician for \_\_\_ on-site days to perform Start Up Testing, such as verifying utility connections and capacities, electrical supply voltage and amperage, motor rotations, completeness of assembly, missing components, etc., on fully installed<sup>(4)</sup> equipment. The Technician will make normal *equipment* adjustments and test operation against factory standards. Upon completion of satisfactory testing, the Technician will demonstrate all phases of the use and operation of the equipment to any interested parties, provided sufficient time is allotted. We recommend that three to four hours be dedicated for effective demonstration. We highly recommend that at least one User of each level of access (Operator, Maintenance, Supervisor/Engineering, Administrative) be present for the demonstration. *Demonstration must not be confused with training; it is NOT a substitute for a complete and formal training session*, 'Demonstration' is informal, with the Technician covering the highlights of the equipment and operation and hazard awareness, and answering questions from interested parties. No handout sheets or post-training testing is given.

Test and Demonstration (T&D) does **not** include mechanical reassembly or completion of wiring or pneumatics (on-skid or otherwise), any function that is normally part of the three Installation options described above, Multiple Trips from our Factory (except at our discretion and as deemed necessary by our Technical Service Manager), Additional Site Preparation, or Assisting with SAT or Validation Documentation.

The Customer will be responsible for all facets of installation not specifically included above. Supervision of Installation, Set in Place Installation, Complete Installation, Training of Personnel, Assisting with SAT or Validation Documentation may be purchased from Girton separately.



A Field Report and a copy of an Attendance Record for the demonstration will be submitted to the Customer within one week from the end of the visit.

Test and Demonstration is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_.00 per 8 Hr. man-day, but should be purchased prior to the first on-site day, if possible.

This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

- 15.8. **Start Up (YSTART)** - Girton Manufacturing Co, Inc. will provide ONE Qualified Technician for \_\_\_ on-site days to perform Start Up Testing, such as verifying utility connections and capacities, electrical supply voltage and amperage, motor rotations, completeness of assembly, missing components, etc., on fully installed<sup>(4)</sup> equipment. The Technician will make normal *equipment* adjustments and test operation against factory standards. Start Up does **not** include mechanical reassembly or completion of wiring or pneumatics (on-skid or otherwise), any function that is normally part of the three Installation options described above, Multiple Trips from our Factory (except at our discretion and as deemed necessary by our Technical Service Manager), Additional Site Preparation, or Assisting with SAT or Validation Documentation.

The Customer will be responsible for all facets of installation not specifically included above. Supervision of Installation, Set in Place Installation, Complete Installation, Training of Personnel, Assisting with SAT or Validation Documentation may be purchased from Girton separately.

A Field Report will be submitted to the Customer within one week from the end of the visit.

Start Up is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_.00 per 8 Hr. man-day, but should be purchased prior to the first on-site day, if possible. This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

- 15.9. **Training (YTR)** - Girton Manufacturing Co, Inc. will provide ONE Qualified Technician for \_\_\_ on-site days to formally and thoroughly provide in-depth training to Operators, Maintenance Technicians, Engineering and Administrative Level Personnel. Our Technician will provide a combination of classroom and hands-on field training. A 'Question and Answer' period is encouraged.

15.9.1. **Topics covered are:**

Hazard Awareness,  
Alarms and the causes of and responses to them,  
Routine Operation,  
Routine Maintenance and Trouble Shooting,  
Set Up, Management and Modification of Recipes (Cycles),  
User Management (Administration).

15.9.2. **Training (TRN)** covers the full range of access and use:

15.9.2.1. **'Operator'** level training covers the daily operation and maintenance, and is the shortest and most basic training.

15.9.2.2. **'Maintenance'** level training includes full Operator training and adds the extensive maintenance diagnostic capabilities available through the HMI, and PM requirements.

15.9.2.3. **'Engineering'** level training will include condensed Operator and Maintenance coverage and adds in-depth Recipe (Cycle) Generation and Management and Recipe and Alarm Set Points. Engineering training is typically restricted to those individuals responsible for control of validated operation.

15.9.2.4. **'Administrator'** level training will have condensed coverage for all levels of use, but will focus primarily on User Administration and Security. At this level, Users Names and Passwords are assigned and Levels of Access Controlled.

Whenever possible, a computer presentation will be shown and pertinent hand out sheets will be distributed. An Attendance Roster and post-training Retention Test will be given and copies will be provided to the Customer.

Training is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_\_.00 per day, but should be purchased prior to the first on-site day, if possible. This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

- 15.10. **Site Acceptance Testing Assistance (YSAT)** - Girton Manufacturing Co, Inc. will provide ONE Qualified Technician for \_\_\_\_ on-site days to assist the Customer's Validation Group(s) with IQ/OQ of fully installed<sup>(4)</sup> and running equipment. Girton Mfg. will provide an SAT Template based on the factory test documents and appropriate programming software and test instruments necessary to duplicate the factory tests. Girton Technicians will assist the Customer by providing clarification of test procedures and test results, and through our experience with the PLC and HMI Programming. Sample SAT documents are typically submitted to the Customer for early review. Machine specific documents shall be submitted to the Customer a minimum of two weeks prior to SAT.

Girton Technicians will *not* be responsible for completing partial installations, test document revisions or test completion.

A Field Report will be submitted to the Customer within one week of completion of the SAT.

Site Acceptance Test is a quoted option and valid as part of the original equipment order. Service ordered after the original equipment order date will require a re-quote. Travel expenses are included in the first day billing. Additional contiguous days may be purchased for a flat fee of \$\_\_\_\_\_.00 per day, but should be purchased prior to the first on-site day, if possible. This information is based on non-union labor. Special provisions and prices apply when union labor and/or prevailing wages are required. Contact your Sales Rep for further details.

**15.11. Notes:**

- 15.11.1. <sup>(1)</sup> "Prepared" site is defined as one at which the building is enclosed, the floor and floor coatings are complete and where Girton personnel can work reasonably unhindered. Electricity (for tools) *must* be available. It is preferred, but not mandatory, that utilities<sup>(2)</sup> are complete and available.
- 15.11.2. <sup>(2)</sup> "Utilities" are defined as Potable Water (Hot and/or Cold), Steam, Condensate, Ventilation, Electrical, Compressed and/or Instrument Air, and Drains. "Utilities" does *not* include Purified (DI, WRO, WFI, etc.) water sources that require high-purity pipe welding, remote Detergent systems or controls, Chiller/Glycol system piping, Facility Control or Data Systems, networked or otherwise.
- 15.11.3. <sup>(3)</sup> "Additional Support Systems" are defined as Purified Water (DI, WRO, WFI, etc.), Chiller systems, Detergent Systems, Combustible Liquids or Gas, and Breathing Air. Connection of Additional Support Systems is *always* the responsibility of the Purchaser.
- 15.11.4. <sup>(4)</sup> "Fully Installed" is defined as the equipment being in-place and leveled, and connected to all utilities and additional support systems. Integration with building fabric is not required.

\* Excluding Saturdays, Sundays and/or Holidays, unless prearranged.

## GIRTON MODEL CR10 VENDOR LIST

<b><u>COMPONENT</u></b>	<b><u>VENDOR</u></b>
Controller	Allen Bradley
Limit Switches	Allen Bradley
Temperature Transmitter	Weed Instrument
Fuses and Fuse Holder	Cooper Bussmann
Header Hoses	St. Gobain
Compressed Air Filter Regulator	SMC
Drain Valve	Sharpe
Potable Water Valve	Duravalve
Emergency Stop Switch	Allen Bradley
 <u>Option:</u>	
Sanitary Diaphragm	Gemu or Equal