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IMEI 0414
LIMITED WARRANTY
Stenner Pump Company will for a period of one (1) year from the date of purchase (proof of purchase required) repair or replace – at our option – all defective parts. Stenner is not responsible for any removal or installation costs. Pump tube assemblies and rubber components are considered perishable and are not covered in this warranty. Pump tube will be replaced each time a pump is in for service, unless otherwise specified. The cost of the pump tube replacement will be the responsibility of the customer. Stenner will incur shipping costs for warranty products shipped from our factory in Jacksonville, Florida. Any tampering with major components, chemical damage, faulty wiring, weather conditions, water damage, power surges, or products not used with reasonable care and maintained in accordance with the instructions will void the warranty. Stenner limits its liability solely to the cost of the original product. We make no other warranty expressed or implied.

RETURNS
Stenner offers a 30-day return policy on factory direct purchases. Except as otherwise provided, no merchandise will be accepted for return after 30 days from purchase. To return merchandise at any time, call Stenner at 800.683.2378 for a Return Merchandise Authorization (RMA) number. A 15% re-stocking fee will be applied. Include a copy of your invoice or packing slip with your return.

DAMAGED OR LOST SHIPMENTS
Check your order immediately upon arrival. All damage must be noted on the delivery receipt. Call Stenner Customer Service at 800.683.2378 for all shortages and damages within seven (7) days of receipt.

SERVICE & REPAIRS
Before returning a pump for warranty or repair, remove chemical from pump tube by running water through the tube, and then run the pump dry. Following expiration of the warranty period, Stenner Pump Company will clean and overhaul any Stenner metering pump for a minimum labor charge plus necessary replacement parts and shipping. All metering pumps received for overhaul will be restored to their original condition. The customer will be charged for missing parts unless specific instructions are given. To return merchandise for repair, call Stenner at 800.683.2378 or 904.641.1666 for a Return Merchandise Authorization (RMA) number.

DISCLAIMER
The information contained in this manual is not intended for specific application purposes. Stenner Pump Company reserves the right to make changes to prices, products, and specifications at any time without prior notice.
SAFETY INFORMATION

⚠️ WARNING ⚠️ Warns about hazards that CAN cause death, serious personal injury, or property damage if ignored.

ELECTRIC SHOCK HAZARD

⚠️ WARNING ⚠️ ELECTRIC SHOCK HAZARD:
The pump must only be used with the Class II power supply that is supplied with the pump.

⚠️ Avertissement ⚠️ RISQUE DE CHOC ELECTRIQUE:
La pompe ne peut être utilisée qu’avec le bloc d’alimentation de type Classe II originalement fourni avec celle-ci.

⚠️ WARNING ⚠️ RISK OF ELECTRIC SHOCK:
This pump has not been investigated for use in swimming pool or marine areas.

⚠️ Avertissement ⚠️ RISQUE DE CHOC ELECTRIQUE:
La pompe n’a pas été vérifiée et approuvée pour utilisation sur des applications de piscine ou autre installation marine.

⚠️ DO NOT ⚠️ alter the power cord or power supply.

⚠️ DO NOT ⚠️ use receptacle adapters.

⚠️ DO NOT ⚠️ use pump with a damaged or altered power cord or power supply. Contact the factory or an authorized service facility for repair.

⚠️ WARNING ⚠️ HAZARDOUS VOLTAGE:
DISCONNECT power cord before removing motor cover for service. Electrical service by trained personnel only.

⚠️ WARNING ⚠️ EXPLOSION HAZARD:
This pump is not explosion proof. DO NOT install or operate in an explosive environment.

⚠️ WARNING ⚠️ RISK OF EXPOSURE:
Potential for burns, fire, explosion, personal injury, or property damage. To reduce risk of exposure, the use of proper personal protective equipment is mandatory.

⚠️ WARNING ⚠️ RISK OF FIRE HAZARD:
DO NOT install or operate on any flammable surface.

⚠️ WARNING ⚠️ RISK OF CHEMICAL OVERDOSE:
To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.

⚠️ WARNING ⚠️ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction to concerning use of the appliance by a person responsible for their safety.
SAFETY INFORMATION continued

⚠️ CAUTION ⚠️ Warns about hazards that WILL or CAN cause minor personal injury or property damage if ignored.

⚠️ CAUTION ⚠️ PLUMBING:
Metering pump installation must always adhere to your local plumbing codes and requirements. Be sure installation does not constitute a cross connection. Check local plumbing codes for guidelines.

⚠️ CAUTION ⚠️ This pump has been evaluated for use with water only.

NOTICE: Indicates special instructions or general mandatory action.

⚠️ This metering pump is portable and designed to be removable from the plumbing system without damage to the connections.

⚠️ Before installing or servicing the pump, read the pump manual for all safety information and complete instructions. The pump is designed for installation and service by properly trained personnel.

⚠️ Installation and product must adhere to all regulatory and compliance codes applicable to the area.

⚠️ This is the safety alert symbol. When displayed in this manual or on the equipment, look for one of the following signal words alerting you to the potential for personal injury or property damage.

⚠️ Acceptable for indoor use only.

⚠️ Pour utilisation à l’intérieur uniquement.

⚠️ Electrical installation should adhere to all national and local codes. Consult a licensed professional for assistance with proper electrical installation.

⚠️ Removing power from recirculation pump must also remove power from pump.

⚠️ The use of an auxiliary safety device (not supplied), such as a flow switch or sensor, is recommended to prevent feed pump operation in the event of a recirculation pump failure or if flow is not sensed.

⚠️ Point of injection should be beyond all pumps, filters, and heaters.

⚠️ Maximum temperature = 40°C
MATERIALS OF CONSTRUCTION

All Housings
Polycarbonate

Peristaltic Tube & Check Valve Duckbill
Santoprene®, FDA approved

Suction/Discharge Tubing & Ferrules
Polyethylene, FDA approved

Weighted Suction Line Strainer
Polypropylene or Type 1 Rigid PVC body with Type 1 Rigid PVC cap, NSF listed; ceramic weight

Tube Fittings
Polypropylene, NSF listed

Check Valve Fittings
Type 1 Rigid PVC, NSF listed

Connecting Nuts
Type 1 Rigid PVC or Polypropylene

All Fasteners
Stainless Steel

*Santoprene® is a registered trademark of Exxon Mobil Corporation.
ACCESSORY CHECKLIST

Contents
3 Connecting Nuts 1/4"
3 Ferrules 1/4" or 6 mm *Europe*
1 Injection Check Valve
1 Weighted Suction Line Strainer 1/4"
1 20' Roll of Suction/Discharge Tubing
   1/4" White or UV Black OR 6 mm White *Europe*
1 Additional Pump Tube
1 Installation Manual
# Outputs

<table>
<thead>
<tr>
<th>Item Number Prefix</th>
<th>Pump Tube</th>
<th>Roller Assembly</th>
<th>Gallons per Day</th>
<th>Gallons per Hour</th>
<th>Ounces per Hour</th>
<th>Ounces per Minute</th>
<th>Pressure psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>E20RHF</td>
<td>F</td>
<td>White</td>
<td>4.5</td>
<td>0.19</td>
<td>24.0</td>
<td>0.40</td>
<td>80</td>
</tr>
<tr>
<td>E20RHG</td>
<td>G</td>
<td>Black</td>
<td>16.0</td>
<td>0.67</td>
<td>85.3</td>
<td>1.42</td>
<td>80</td>
</tr>
<tr>
<td>E20RHH</td>
<td>H</td>
<td>Black</td>
<td>30.0</td>
<td>1.25</td>
<td>160.0</td>
<td>2.67</td>
<td>80</td>
</tr>
</tbody>
</table>

Approximate Maximum Outputs @ 50/60Hz

<table>
<thead>
<tr>
<th>Item Number Prefix</th>
<th>Pump Tube</th>
<th>Roller Assembly</th>
<th>Liters per Day</th>
<th>Liters per Hour</th>
<th>Milliliters per Hour</th>
<th>Milliliters per Minute</th>
<th>Pressure bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>E20RHF</td>
<td>F</td>
<td>White</td>
<td>17.01</td>
<td>0.71</td>
<td>708.8</td>
<td>11.8</td>
<td>5.5</td>
</tr>
<tr>
<td>E20RHG</td>
<td>G</td>
<td>Black</td>
<td>60.48</td>
<td>2.52</td>
<td>2520.0</td>
<td>42.0</td>
<td>5.5</td>
</tr>
<tr>
<td>E20RHH</td>
<td>H</td>
<td>Black</td>
<td>113.40</td>
<td>4.72</td>
<td>4725.0</td>
<td>78.8</td>
<td>5.5</td>
</tr>
</tbody>
</table>

Approximate Maximum Outputs @ 50/60Hz

**Note:** Injection check valve included.

**Notice:** The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.
MODES OF OPERATION DESCRIPTION

The Econ Integrator is a flow activated pump and can accept a dry contact signal or a 12-24 VAC/VDC signal from any control equipment that responds to flow. The pump runs at a set time or a set speed according to the mode of operation selected. The run time or the pump speed is adjustable from 10% to 100% in 1% increments. The control panel displays the modes of operation as **SECONDS, AUXILIARY** and **FLOW SWITCH**.

Before programming, review the pre-programming requirements pages 12 to 13, steps A-D.

**SECONDS** (dry contact signal)
In the Seconds mode, the pump can receive a dry (non-voltage) contact signal and will run for a set time in response to receiving the signal. The pump can receive the signal from, for example, a water meter or control valve that sends a dry contact signal. There is a choice of five pump operating time ranges and the maximum time is displayed in the control panel; the run time is adjustable from 10% to 100% in 1% increments.

- 1 SECOND = 0.1 to 1.0
- 5 SECONDS = 0.5 to 5.0
- 10 SECONDS = 1.0 to 10.0
- 20 SECONDS = 2.0 to 20.0
- 60 SECONDS = 6.0 to 60.0

**AUXILIARY** (12-24 VAC/VDC signal)
In the Auxiliary mode, the pump can accept a 12-24 VAC/VDC signal and will run at a set speed for as long as it receives the signal. The pump speed is adjustable from 10% to 100% in 1% increments. If polarity is reversed when connecting a DC signal to the AUX input, the pump will not respond to the signal. The pump can receive the signal from a control valve or another type of control equipment that responds to flow.

**FLOW SWITCH** (dry contact signal)
In the Flow Switch mode, the pump will accept a dry (non-voltage) contact signal from a 2 wire flow switch and will run at the set speed for as long as it receives the dry contact. The pump speed is adjustable from 10% to 100% in 1% increments. The connection is not polarity sensitive (polarity is not an issue when connecting the flow switch wires).

The Econ Integrator features a repeater relay. The repeater relay provides a **dry contact output signal** that replicates the **dry contact input signal** that the pump receives. This output can be used to control another device that accepts a dry contact signal. The dry contact repeater relay is rated for 36V at 25mA maximum.
The control panel has a backlit LCD display; when operating it will display the operating modes and the % setting. The pump is factory pre-set at the lowest settings. The keypad is locked and in standby mode.

To unlock the keypad, simultaneously press and hold MODE and % for 5 seconds. The keypad will automatically lock if there is no operation for 60 seconds.

Following are the buttons for programming the modes of operation.

To prime the pump or run the pump at full speed, first press & continue to hold MODE, then press PRIME.

To place the pump in or out of standby, first press & continue to hold MODE, then press STBY. The pump will not respond to incoming signals when in STBY mode.

To select a mode of operation, first press & continue to hold MODE, then press ↑ or ↓ to scroll through the selections. The display will show FLOW SWITCH, AUXILIARY (for 12-24 VAC/VDC), or SECONDS (for water meter).

After the operational mode is selected, select the percentage setting. First press & continue to hold %, then press ↑ or ↓ until the desired percentage is reached.
CONTROL PANEL GUIDE – INDICATORS

The display has flashing indicators beneath the operating mode and setting. The indicators are “PRIME”, “STANDBY”, “SIGNAL” and “KEYPAD LOCKED” and represent the following functions:

- **PRIME** = Prime button is pressed, pump will run full speed
- **STANDBY** = Standby button was pressed, pump is in standby
- **SIGNAL** = Pump received a signal
- **KEYPAD LOCKED** = After 60 seconds of no keypad operation, the keypad will lock and the display will show “KEYPAD LOCKED”
PRE-PROGRAMMING REQUIREMENTS

Before programming the pump, collect or calculate the data in steps A through D then continue with the instructions for water meter, auxiliary or flow switch.

A. Determine the **Maximum System Flow Rate** or **Well Pump Flow Rate in Gallons per Minute**.

*If well pump output is unknown, refer to example below:*

**Calculate well pump output rate in gallons per minute (gpm).**

Determine the output rate by opening a faucet until the well pump turns on. Immediately turn off the faucet and time how long the well pump runs. Next, measure the volume of water drawn from the faucet until the well pump turns on again.

\[
\frac{\text{volume of water until the pump turns on (gal.)}}{\text{how long the pump runs (min.)}} = \text{Well Pump Output Rate (gpm)}
\]

*Example: After drawing 10 gallons of water, the well pump took 2 minutes to fill the pressure tank and stop. 10 gallons \(\frac{2\, \text{minutes}}{2\, \text{minutes}} = 5\, \text{gpm})*

B. Determine **Solution Strength Percentage** and the **Dosage Requirement in Parts per Million**.

*If dosage is unknown, refer to example below:*

**Calculate required dosage in parts per million (ppm).**

Refer to Oxidation Rates below. Estimate dosage and include the ppm of required residual.

**Common Chemical Solution Strengths in ppm**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hypochlorite</td>
<td>5.25</td>
<td>52,500</td>
</tr>
<tr>
<td></td>
<td>6.125</td>
<td>61,250</td>
</tr>
<tr>
<td></td>
<td>12.5</td>
<td>125,000</td>
</tr>
<tr>
<td>Potassium Permanganate Dissolved at 1/4 lb per gallon</td>
<td>3</td>
<td>30,000</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>7</td>
<td>70,000</td>
</tr>
<tr>
<td>Polyphosphate Dissolved at 1 lb per 10 gallons</td>
<td>1.2</td>
<td>12,000</td>
</tr>
</tbody>
</table>

**Oxidation Rates**

<table>
<thead>
<tr>
<th>For each ppm of</th>
<th>Iron</th>
<th>Manganese</th>
<th>Hydrogen Sulfide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required ppm of Chlorine</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Required ppm of Hydrogen Peroxide</td>
<td>0.5</td>
<td>1</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Example: To treat a water supply containing 2 ppm iron and 4 ppm hydrogen sulfide with a chlorine residual of 1 ppm, a dosage of 15 ppm of chlorine is required. 2 ppm iron \(\times 1\) ppm chlorine = 2 4 ppm hydrogen sulfide \(\times 3\) ppm chlorine = 12 1 ppm chlorine residual = 1 Total 2 + 12 + 1 = 15 ppm*
C. Calculate **Metering Pump Output Requirement in Gallons per Day**.

\[
\text{Maximum System Flow Rate (gpm) x Dosage (ppm) x 1440} = \text{Metering Pump Output Requirement (gpd)}
\]

* Solution Strength ppm* 

\[
\text{Solution Strength ppm} = \frac{\text{Solution Strength %} \times 10,000}{100}
\]

D. Reference the chart below to confirm the selected pump’s maximum output slightly exceeds the pump output requirement calculated in C.

**Integrator Pump (up to 80 psi/5.5 bar)**

<table>
<thead>
<tr>
<th>Item Number Prefix</th>
<th>Pump Tube</th>
<th>Roller Assembly</th>
<th>Maximum Output (gpd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E20RHF</td>
<td>F</td>
<td>White</td>
<td>4.5</td>
</tr>
<tr>
<td>E20RHG</td>
<td>G</td>
<td>Black</td>
<td>16.0</td>
</tr>
<tr>
<td>E20RHH</td>
<td>H</td>
<td>Black</td>
<td>30.0</td>
</tr>
</tbody>
</table>
1. Calculate the **Available Dose Time in Seconds**.
   The available dose time is the minimum time interval between the water meter contact closures.
   
   a. \[
   \frac{60 \text{ Seconds}}{\text{Maximum System Flow Rate (gpm)}} = \text{Maximum System Flow Rate (spg)}
   \]
   
   b. \[
   \frac{\text{Maximum System Flow Rate (spg)}}{\text{Water Meter’s contacts per gallon (cpg)}} = \text{Available Dose Time (sec.)}
   \]
   
   * Refer to the water meter model to confirm the contact rate (cpg).

2. Calculate the **Pump Operating Time in Seconds**.
   
   Pump Output Requirement (gpd) x Available Dose Time (sec.) = Pump Operating Time (sec.)

   \[\text{Pump's Maximum Output (gpd)}\]

   **WARNING** PUMP OPERATING TIME EXCEEDING AVAILABLE DOSE TIME MAY LEAD TO DOSING ERRORS. To reduce operating time, select a pump with a higher output or use a stronger solution strength.

3. Calculate the **Pump Operating Time Percentage**.
   Reference the chart to find the pump’s maximum operating time for the formula below.

<table>
<thead>
<tr>
<th>Seconds Mode</th>
<th>MAXIMUM Pump Operating Time in Seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 SECOND</td>
<td>1.0</td>
</tr>
<tr>
<td>5 SECONDS</td>
<td>5.0</td>
</tr>
<tr>
<td>10 SECONDS</td>
<td>10.0</td>
</tr>
<tr>
<td>20 SECONDS</td>
<td>20.0</td>
</tr>
<tr>
<td>60 SECONDS</td>
<td>60.0</td>
</tr>
</tbody>
</table>

   \[
   \frac{\text{Pump Operating Time (sec.)}}{\text{Maximum Pump Operating Time (sec.)}} \times 100 = \text{Pump Operating Time Percentage}
   \]

   ** Value can only be 1, 5, 10, 20, or 60.
4. Program the Pump Operating Mode and the Pump Operating Time Percentage.

Unlock the Keypad
Press \textbf{MODE} and \textbf{%} simultaneously and hold for 5 seconds to unlock the keypad.

Pump Operating Mode
First, press and continue to hold \textbf{MODE}, then press \textbf{\textuparrow} or \textbf{\textdownarrow}; when the display shows 1, 5, 10, 20 or 60 SECONDS, release both buttons to select based on the pump operating time determined in #2. The operating mode is now set.

Pump Operating Time Percentage
The pump operating time can be set from 10% to 100% in 1% increments. First, press and continue to hold \textbf{%}, then press \textbf{\textuparrow} or \textbf{\textdownarrow} to adjust the pump operating time percentage determined in #3. When the display shows the desired percent, release both buttons to select. The percentage is now set.

For example, if the pump is set in the 60 seconds mode and the setting is 50%, the pump will run for 30 seconds when it receives a signal from the water meter.
**AUXILIARY (12-24 VAC/VDC signal)**

**PROGRAM PUMP SETTINGS**

**General Guidelines**

The host device must have the ability to interface with the pump via a 12-24 VAC/VDC signal. For typical water softener installation, the controller provides the ability to program the amount of water that passes through the water softener in gallons per signal (referred to as Water Volume per Signal in the 2a below) and the duration of the signal in seconds (referred to as Water Softener Chemical Feed Duration in 2b below).

Refer to the specific water softener manual for instructions on how to program the settings and make the signal connections to the metering pump.

1. Determine the desired water volume (in gallons) that will pass through the water softener to require the (water softener) controller to send a signal to the metering pump (e.g. at every gallon).
   
   **NOTE:** Smaller water volume between signals generally allows for more even chemical dispersion.

2. Calculate the **Water Softener Chemical Feed Duration in Seconds.**
   
   The water softener chemical feed duration (in seconds) is the programmed amount of time that the (water softener) controller is continually activating the metering pump (to dispense chemical).

   a. \[
   \frac{\text{Max System Flow Rate (gpm)}}{\text{Water Volume per Signal (gallons per signal)}} = \text{Signals Per Minute}
   \]

   b. \[
   \frac{60 \text{ Seconds}}{\text{Signals Per Minute}} = \text{Water Softener Chemical Feed Duration (sec.)}
   \]

**WARNING** IF THE ACTUAL SYSTEM FLOW RATE EXCEEDS THE MAXIMUM SYSTEM FLOW RATE VALUE USED IN THE CALCULATION IN 2a; THE AVAILABLE WATER SOFTENER CHEMICAL FEED DURATION WILL BE REDUCED AND CAN LEAD TO DOSING ERRORS.
3. Calculate the **Pump Speed Percentage**.

\[
\frac{\text{Metering Pump Output Requirement (gpd)}}{\text{Metering Pump Maximum Output (gpd)}} \times 100 = \text{Pump Speed Percentage}
\]

4. Program the **Pump Operating Mode** and the **Pump Speed Percentage**.

**Unlock the Keypad**

Press (MODE) and (%) simultaneously and hold for 5 seconds to unlock the keypad.

**Pump Operating Mode**

First, press and continue to hold (MODE), then press (↑) or (↓) to scroll through the modes of operation. When the display shows AUXILIARY, release both buttons to select. The operating mode is now set.

**Pump Speed Percentage**

The pump speed can be programmed from 10% to 100% in 1% increments. First, press and continue to hold (%), then press (↑) or (↓) to adjust the speed percentage determined in #3. When the display shows the desired percent, release both buttons to select. The percentage is now set.

---

Example of control panel with keypad locked.

Example of control panel with pump speed set for 20%.
1. Calculate the **Pump Speed Percentage Setting.**

   \[
   \frac{\text{Metering Pump Output Requirement (gpd)} \times 100}{\text{Metering Pump Maximum Output (gpd)}} = \text{Pump Speed Percentage Setting}
   \]

2. Program the **Pump Operating Mode** and the **Pump Speed Percentage.**

   **Unlock the Keypad**
   Press `MODE` and `%` simultaneously and hold for 5 seconds to unlock the keypad.

   **Pump Operating Mode**
   First, press and continue to hold `MODE`, then press `↑` or `↓` to scroll through the modes of operation. When the display shows FLOW SWITCH, release both buttons to select. The operating mode is now set.

   **Pump Speed Percentage**
   The pump speed can be programmed from 10% to 100% in 1% increments. First, press and continue to hold `%`, then press `↑` or `↓` to adjust the speed percentage determined in #1. When the display shows the desired percent, release both buttons to select. The percentage is now set.

   **Example of control panel set for 10% in Flow switch mode.**

   **Example of control panel with keypad locked.**
INSTALLATION

ADDITIONAL SAFETY INSTRUCTIONS

⚠️ **NOTICE:** Indicates special instructions or general mandatory action.

⚠️ Read all safety hazards before installing or servicing the pump. The pump is designed for installation and service by properly trained personnel.

⚠️ Use all required personal protective equipment when working on or near a metering pump.

⚠️ Install the pump so that it is in compliance with all national and local plumbing and electrical codes.

⚠️ Use the proper product to treat potable water systems, use only additives listed or approved for use.

⚠️ Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent damage to pump and/or spillage.

⚠️ Pump is not recommended for installation in areas where leakage can cause personal injury or property damage.
INSTALLATION

MOUNT PUMP

⚠️ Select a dry location (to avoid water intrusion and pump damage) above the solution tank.

NOTE: A mounting template is provided on page 37.

⚠️ To prevent pump damage in the event of a pump tube leak, never mount the pump vertically with the pump head up.

⚠️ DO NOT mount pump directly over an open solution tank. Keep tank covered.

⚠️ Avoid flooded suction or pump mounted lower than the solution container. Draw solution from the top of the tank. Pump can run dry without damage. If pump is installed with a flooded suction, a shut-off valve or other device must be provided to stop flow to pump during service.

⚠️ To prevent damage to the pump, verify with a volt meter that the receptacle voltage corresponds with the pump voltage.
1. Connect signal wires as required by the installation:
   - **SECONDS** Black & Red
   - **FLOW SWITCH** Black & Red
   - **REPEATER RELAY** Green & White
     - If using the repeater relay with the Seconds or Flow Switch mode, connect the green & white wires from the pump to the other device.
   - **AUXILIARY** Brown (or Orange) & Blue
     - For AC signal, there is no polarity.
     - For DC signal, blue wire is connected to signal positive (+) and brown (or orange) is connected to signal negative (−).
     NOTE: If polarity is reversed when connecting a DC signal to the AUX input, the pump will not respond to the signal.

2. Cap all non-terminated wires.
   NOTE: All non-terminated wires must be capped to prevent operational errors or damage to the pump.

3. Plug power supply into receptacle. To unlock the keypad, simultaneously press and hold **MODE** and **%** for 5 seconds.

4. Put the pump in standby. First, press and continue to hold **MODE**, then press **STBY**.

5. Program the pump for the desired operating mode and % setting, refer to Program Pump Settings in the manual.
   NOTE: Leave the unit in standby until the signal wires are connected and the pump is ready for priming.
ADDITIONAL INSTRUCTIONS FOR CE PUMPS WHEN APPLICABLE

ADDITIONAL INSTALLATION INSTRUCTIONS
1. All Class II Pumps located in Zone 1 of swimming pool areas require locating where flooding cannot occur.
2. This pump is intended to be installed as “fixed” as opposed to portable.
3. The pump must be installed in a vertical position as shown in the installation diagram.
4. After installation, the power supply plug must be accessible during use.
5. This unit must be scrapped if the supply cord is damaged.
6. Observe and comply with all National Wiring Standards.

ZUSTÄNZLICHE INSTALLIERUNGSANWEISUNGEN
1. Pumpen die sich in Zone 1 vom Schwimmbecken befinden sollen sind so einzurichten daß Ueberschwemmungen nicht vorkommen werde.
2. Diese Pumpe ist als fest montierte Ausrustung bedacht und soll nicht umstellbar gebraucht werden.
3. Die Pumpe muss vertikal installiert werden, siehe Zeichnung.
4. Die Stromversorgung muss nach der Installierung noch zugänglich sein.
5. Bei beschadigter Verkabelung ist dieses Gerät nicht mehr zu gebrauchen.

INSTRUCTIONS SUPPLÉMENTAIRES D’INSTALLATION
1. Toutes les pompes installées dans la Zone 1 du périmètre de la piscine doivent être situées de manière à ne pas pouvoir être inondées.
2. Cette pompe est prévue pour installation fixe et non pas portative.
3. La pompe doit être installée en position verticale selon le dessin.
4. Après l’installation, la prise électrique doit rester accessible pendant l’utilisation.
5. Cette unité doit être mise au rebut si le cordon électrique est endommagé.
6. Observez et adhérez à toutes les Normes Nationales pour Installations Electriques.

INSTRUCCIONES ADICIONALES PARA INSTALACION
1. Todas las bombas Clase II situadas en la Zona 1 de las áreas de la piscina requieren colocarse donde no puedan ser inundadas.
2. Esta bomba es para ser instalada “fija” en vez de portátil.
3. La bomba debe ser instalada en posición vertical como se muestra en el diagrama de instalación.
4. Después de la instalación el enchufe suministrador de energía debe estar accesible durante el uso.
5. Se deberá deshechar la unidad si el cordón de abastecimiento se deteriora.
6. Observe y cumpla con todas las Reglas Nacionales para Instalaciones Eléctricas.

ISTRUZIONI SUPPLEMENTARI PER L’INSTALLAZIONE
1. Tutte le pompe Classe II localizzate nella Zona 1 della superficie circostante la piscina devono essere collocate dove gli allagamenti non possono accadere.
2. Questa pompa, è inteso, deve essere installata come ‘fissa’ e non come portatile.
3. La pompa deve essere installata in posizione verticale come mostrato sul disegno.
4. Dopo l’installazione, la spina deve essere accessibile durante l’uso.
5. Questa unità deve essere gettata via se il filo elettrico è danneggiato.
6. Osservare e aderire a tutte le Norme Nazionali Sugli Impianti Elettrici.
INSTALLATION DIAGRAM featuring the Repeater Relay function with a Water Meter & House Controller

- **Controller Cable**
- **House Controller**
- **Econ Integrator**
- **Disassembled View of nut and ferrule**
- **Recommended installation of shut-off valve for ease of service**

- **Dry Contact Water Meter**
- **Water Meter Output Cable**
- **Pump Input Cable**
- **Solution Tank**
- **Shut-Off Valve**
- **Injection Check Valve**
- **Discharge Line**
- **Suction Line**
- **Weighted Suction Line Strainer**
- **Solution Tank**

**NOTE:** Cap all non-terminated wires.

**REPEATER RELAY**
- **SECONDS OR FLOW SWITCH**
  - Black
  - Green
  - White
  - Red
  - Blue (or Orange)

**AUXILIARY**
- **Blue**
- **Brown**

**Flow direction of solution**
- **Duckbill**
- **Disassembled View of Injection Check Valve Up to 80 psi**

**Direction of water flow**

**Power Outlet:**
- Grounded
- Fault Circuit Interrupter (GFCI)
INSTALLATION DIAGRAM featuring a Water Meter

Grounded Power Outlet: (Grounded-Fault Circuit-Interrupter GFCI)

Econ Integrator

Pump Input Cable

Water Meter Output Cable

Dry Contact Water Meter

Shut-Off Valve

Discharge Line

Solution Tank

Weighted Suction Line Strainer

Inlet Check Valve

Up to 80 psi

Flow direction of solution

Duckbill

Disassembled View of Injection Check Valve

NOTE: Cap all non-terminated wires.

SECONDS OR FLOW SWITCH

- Black
- Red
- Green
- Blue
- Brown (or Orange)

AUXILIARY

NOTE: Cap all non-terminated wires.
INSTALL SUCTION LINE TO PUMP HEAD

1. Uncoil the suction/discharge line. Use outside of solution tank as a guide to cut proper length of suction line ensuring it will be 2-3" above the bottom of solution tank.
   - Allow sufficient slack to avoid kinks and stress cracks. Always make a clean square cut to assure that the suction line is burr free. Normal maintenance requires trimming.
   - Suction lines that extend to the bottom of the tank can result in debris pickup leading to clogged injectors and possible tube failure.

2. Make connections by sliding the line(s) through connecting nut and ferrule and finger tighten to the corresponding tube fittings.

3. Finger tighten nut to the threaded tube fitting while holding the tube fitting.
   - Over tightening the ferrule and nut with a wrench may result in damaged fittings, crushed ferrules, and air pick up.
   - DO NOT use thread sealant tape on pump tube connections or tools to tighten connections.

DO NOT use Teflon tape on pump tube threads.

DO NOT use pliers.
INSTALLATION continued

INSTALL SUCTION WEIGHT TO SUCTION LINE

1. Drill a hole into the bung cap or solution tank lid. Slide the tubing through and secure the weighted strainer to the line.

2. To attach the strainer, push approximately 3.5” of suction line through the cap on the strainer body. Pull tubing to make sure it is secure.

3. Suspend slightly above tank bottom to reduce the chance of sediment pickup.

⚠️ **DO NOT mix additives in the solution container. Follow recommended mixing procedures according to the manufacturer.**

⚠️ **DO NOT operate pump unless additive is completely in solution. Turn pump off when replenishing solution.**

---

![Diagram showing installation](image)
INSTALL DISCHARGE LINE TO PUMP HEAD AND INJECTION POINT

1. Make a secure finger tight connection on the discharge fitting of the pump head as instructed in Install Suction Line instructions.

⚠️ DO NOT use thread sealant tape on pump tube connections or tools to tighten connections.

⚠️ WARNING HAZARDOUS PRESSURE: Shut off water or circulation system and bleed off any system pressure.

⚠️ Locate a point of injection beyond all pumps and filters or as determined by the application.

2. A 1/4” or 1/2" Female NPT (FNPT) connection is required for installing the injection fitting. If there is no FNPT fitting available, provide one by either tapping the pipe or installing FNPT pipe tee fitting.

3. Wrap the Male NPT (MNPT) end of injection fitting with 2 or 3 turns of threading tape. If necessary, trim the injection fitting quill as required to inject product directly into flow of water.

4. Hand tighten the injection fitting into the FNPT fitting.
   a. Install connecting nut and ferrule to the pump discharge tubing. Insert discharge tubing into injection fitting until it reaches base of fitting.
   b. Finger tighten connecting nut to fitting.

---

IN STALLATION continued
START PUMP

1. To unlock the keypad, simultaneously press and hold **MODE** and **%** for 5 seconds.

2. Take the pump out of standby. First, press and continue to hold **MODE**, then press **STBY**. Prime the pump. First, press and continue to hold **MODE**, then press **PRIME**. Once the pump is primed, release both buttons. Observe flow as actuated by the system and check all connections for leaks.

3. After suitable amount of dosing time, perform tests for desired readings (e.g., pH or ppm). If necessary, fine tune dosing levels by adjusting the percentage or by adjusting the solution strength.

NOTE: If the signal indicator flashes during the run cycle in the 1, 5, 10, 20, or 60 seconds modes, the meter contacting rate is too high for the setting programmed. Revisit the dry contact water meter programming section and correct the setting to avoid incorrect dosing.

⚠️ NOTICE: The injection point and fitting require periodic maintenance to clean any deposits or buildup. To allow quick access to the point of injection, Stenner recommends the installation of shut-off valves.
**WARNING**  
HAZARDOUS VOLTAGE:  
**DISCONNECT** power before service. Electrical service should be performed by trained personnel only.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise is excessively loud</td>
<td>Lubrication is insufficient</td>
<td>Grease gears and gear posts</td>
</tr>
<tr>
<td></td>
<td>Gears or gear posts are worn</td>
<td>Inspect/replace gears and gear posts</td>
</tr>
<tr>
<td>Drive assembly does not work</td>
<td>Electrical supply is faulty</td>
<td>Check supply voltage circuit</td>
</tr>
<tr>
<td></td>
<td>DC motor is damaged</td>
<td>Replace drive assembly</td>
</tr>
<tr>
<td></td>
<td>Power cord or power supply is damaged</td>
<td>Replace drive assembly</td>
</tr>
<tr>
<td>Drive assembly runs; output shaft does not turn</td>
<td>Worn or damaged gears</td>
<td>Replace gears as needed</td>
</tr>
<tr>
<td>Phenolic gear is stripping</td>
<td>Gear posts worn</td>
<td>Replace gear posts and phenolic gear</td>
</tr>
<tr>
<td></td>
<td>Rusted helical gear</td>
<td>Buff off helical gear and replace phenolic gear</td>
</tr>
<tr>
<td></td>
<td>Insufficient lubrication</td>
<td>Replace phenolic gear and lubricate with AquaShield®</td>
</tr>
<tr>
<td>Output shaft does not turn</td>
<td>Worn or damaged roller assembly</td>
<td>Replace roller assembly and cycle power to reset</td>
</tr>
<tr>
<td></td>
<td>Worn or damaged gears</td>
<td>Replace gears as needed and cycle power to reset</td>
</tr>
<tr>
<td></td>
<td>Damaged circuit board</td>
<td>Replace drive assembly</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING – PUMP HEAD

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components are cracking</td>
<td>Incompatibility with fluid</td>
<td>Check compatibility</td>
</tr>
<tr>
<td>Visible fluid in pump head</td>
<td>Pump tube rupture/leak</td>
<td>Replace pump tube and ferrules</td>
</tr>
<tr>
<td>No pump output; pump head rotates</td>
<td>Depleted solution tank</td>
<td>Replenish solution</td>
</tr>
<tr>
<td></td>
<td>Pump suction line weight is above solution</td>
<td>Maintain suction line 2-3” off bottom of tank</td>
</tr>
<tr>
<td></td>
<td>Suction line leak</td>
<td>Inspect or replace suction line</td>
</tr>
<tr>
<td></td>
<td>Ferrules installed incorrectly or damaged</td>
<td>Replace compression ferrules</td>
</tr>
<tr>
<td></td>
<td>Injection point is clogged</td>
<td>Inspect and clean injection point</td>
</tr>
<tr>
<td></td>
<td>Clogged suction/discharge tubing</td>
<td>Clean and/or replace as necessary</td>
</tr>
<tr>
<td></td>
<td>Life of pump tube is exhausted</td>
<td>Replace pump tube</td>
</tr>
<tr>
<td></td>
<td>Suction tubing is flush with the nose of the weighted strainer</td>
<td>Pull suction tubing approximately 1” from bottom of strainer; cut bottom of suction tubing at an angle</td>
</tr>
<tr>
<td></td>
<td>Incorrect programming</td>
<td>Review sizing and programming</td>
</tr>
<tr>
<td></td>
<td>Incorrect wiring</td>
<td>Check to ensure wiring is correct</td>
</tr>
<tr>
<td></td>
<td>Pump cover not secured properly</td>
<td>Ensure that pump cover is properly latched</td>
</tr>
<tr>
<td>Low pump output; pump head rotates</td>
<td>Pump tube is worn</td>
<td>Replace pump tube</td>
</tr>
<tr>
<td></td>
<td>Rollers worn or broken</td>
<td>Install new roller assembly</td>
</tr>
<tr>
<td></td>
<td>Injection point is restricted</td>
<td>Inspect and clean injection point</td>
</tr>
<tr>
<td></td>
<td>Incorrect tube size</td>
<td>Replace tube with correct size</td>
</tr>
<tr>
<td></td>
<td>High system back pressure</td>
<td>Confirm system pressure does not exceed 80 psi (5.5 bar)</td>
</tr>
<tr>
<td></td>
<td>Incorrect programming</td>
<td>Review sizing and programming</td>
</tr>
<tr>
<td></td>
<td>Incorrect wiring</td>
<td>Check to ensure wiring is correct</td>
</tr>
<tr>
<td></td>
<td>Pump cover not secured properly</td>
<td>Ensure that pump cover is properly latched</td>
</tr>
<tr>
<td>No pump output; pump head doesn’t rotate</td>
<td>Roller assembly is stripped</td>
<td>Replace roller assembly</td>
</tr>
<tr>
<td></td>
<td>Faulty board</td>
<td>Replace drive assembly</td>
</tr>
<tr>
<td></td>
<td>Drive assembly problem</td>
<td>Refer to Troubleshooting – Drive Assembly</td>
</tr>
<tr>
<td></td>
<td>Potentiometer set incorrectly</td>
<td>Adjust potentiometer. (Note that LED will be on continuously to indicate power even if the unit is set to zero)</td>
</tr>
<tr>
<td></td>
<td>Incorrect programming</td>
<td>Review sizing and programming</td>
</tr>
<tr>
<td></td>
<td>Incorrect wiring</td>
<td>Check to ensure wiring is correct</td>
</tr>
<tr>
<td>Pump output is high</td>
<td>Incorrect tube size</td>
<td>Replace tube with correct size</td>
</tr>
<tr>
<td></td>
<td>Roller assembly is broken</td>
<td>Replace roller assembly</td>
</tr>
<tr>
<td></td>
<td>Potentiometer set incorrectly</td>
<td>Adjust potentiometer</td>
</tr>
<tr>
<td></td>
<td>Incorrect programming</td>
<td>Review sizing and programming</td>
</tr>
<tr>
<td></td>
<td>Incorrect wiring</td>
<td>Check to ensure wiring is correct</td>
</tr>
</tbody>
</table>
### TROUBLESHOOTING – PUMP TUBE

**NOTICE:** A leaking pump tube damages the metering pump. Inspect pump frequently for leakage and wear. Refer to Tube Replacement section for additional safety precautions and instructions.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube leaking</td>
<td>Pump tube ruptured</td>
<td>Replace pump tube and ferrules</td>
</tr>
<tr>
<td></td>
<td>Calcium or mineral deposits</td>
<td>Clean injection fitting, replace pump tube and ferrules</td>
</tr>
<tr>
<td></td>
<td>Excessive back pressure</td>
<td>Ensure system pressure does not exceed 80 psi (5.5 bar)</td>
</tr>
<tr>
<td></td>
<td>Tube is twisted</td>
<td>Replace pump tube and ferrules</td>
</tr>
<tr>
<td></td>
<td>Tube not centered</td>
<td>Replace pump tube and ferrules</td>
</tr>
<tr>
<td>Tube life is shortened</td>
<td>Incompatibility with fluid</td>
<td>Check compatibility</td>
</tr>
<tr>
<td></td>
<td>Mineral deposits at injection point</td>
<td>Remove deposits, replace pump tube and ferrules</td>
</tr>
<tr>
<td></td>
<td>Sediment blockage at injection fitting</td>
<td>Maintain suction line 2.3” above bottom of tank</td>
</tr>
<tr>
<td></td>
<td>Seized rollers caused abrasion on tube</td>
<td>Clean roller assembly or replace</td>
</tr>
<tr>
<td></td>
<td>Exposure to heat or sun</td>
<td>Do not store tubes in high temperatures or in direct sunlight</td>
</tr>
<tr>
<td>Tube connection is leaking</td>
<td>Missing ferrule on suction or discharge line</td>
<td>Replace ferrule</td>
</tr>
<tr>
<td></td>
<td>Crushed ferrule</td>
<td>Replace ferrule</td>
</tr>
<tr>
<td></td>
<td>Ferrule in wrong orientation</td>
<td>Reverse orientation of ferrule</td>
</tr>
</tbody>
</table>
TUBE REPLACEMENT

⚠️ WARNING RISK OF EXPOSURE

⚠️ To reduce risk of exposure, check the pump tube regularly for leakage. At the first sign of leakage, replace the pump tube.

⚠️ To reduce risk of exposure, the use of proper personal protective equipment is mandatory when working on or near metering pumps.

⚠️ To reduce risk of exposure, and also prior to service, shipping, or storage, pump generous amounts of water or a compatible buffer solution to rinse pump.

⚠️ Consult MSDS sheet for additional information and precautions for the additive in use.

⚠️ Personnel should be skilled and trained in the proper safety and handling of the additive in use.

⚠️ Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent damage to pump and/or spillage.

⚠️ CAUTION PINCH POINT HAZARD:

⚠️ Use extreme caution when replacing pump tube. Be careful of your fingers and DO NOT place fingers near rollers.

⚠️ WARNING HAZARDOUS PRESSURE EXPOSURE:

⚠️ Use caution and bleed off all resident system pressure prior to attempting service or installation.

⚠️ Use caution when disconnecting discharge tubing from pump. Discharge may be under pressure. Tubing may contain fluid being metered.

⚠️ NOTICE: Indicates special instructions or general mandatory action.

⚠️ DO NOT apply grease, oil, or lubricants to the pump tube or housing.

⚠️ Prior to pump tube replacement, inspect the entire pump head for cracks or damaged components. Ensure rollers turn freely.

⚠️ Rinse off fluid residual and clean all fluid and debris from pump head components prior to tube replacement.

⚠️ DO NOT pull excessively on pump tube. Avoid kinks or damage during tube installation.

⚠️ Inspect the suction/discharge tubing, injection point (into pipe), and injection fitting for blockages after any tube rupture. Clear or replace as required.
PREPARATION
1. Follow all safety precautions prior to tube replacement.
2. Prior to service, pump water or a compatible buffer solution through the pump and suction and discharge lines to remove fluid and avoid contact.
3. Disconnect the suction and discharge connections from pump head.

REMOVE TUBE
Always unplug pump before doing maintenance work.

1. To unlock the keypad, simultaneously press and hold [MODE] and [%] for 5 seconds. REMINDER: The keypad will automatically lock if there is no operation for 60 seconds. Place pump in standby by pressing and continuing to hold [MODE], then press [STBY].
2. Unplug the pump.
3. Remove the Phillips head locking screw on the latch (CE models only). Slide the vertical tab 180 degrees from left to right to unlock the cover latch. Illustration A
4. To slide cover off, push up on the raised edge. Illustration B
5. Release the fittings from the slots to remove the tube. Illustration C
6. Remove roller assembly.
7. Use non-citrus all-purpose cleaner to clean residue from pump head housing, roller, and cover.
8. Check cover for cracks. Replace if cracked.
10. Replace roller assembly if: seized, excessive side play from bore wear, or if rollers are visibly worn.
11. Re-install roller assembly.
1. To install new tube, insert one fitting into slot, pull tube around the center of the roller assembly and insert second fitting into the other slot. *Illustration D*

2. Align tube housing cover with track and slide over tube until fully closed. *Illustration E*

3. Plug the pump in.

4. Run the pump to relax the tube. First, press and continue to hold \( \text{MODE} \), then press \( \text{PRIME} \), hold both buttons for one minute.

5. To lock cover in place, press down on the cover while turning the vertical tab 180 degrees from right to left. Install the Phillips head locking screw (CE models only). *Illustration F*

6. Take the pump out of standby. First, press and continue to hold \( \text{MODE} \), then press \( \text{STBY} \). Run the pump for one minute to verify operation. First, press and continue to hold \( \text{MODE} \), then press \( \text{PRIME} \), hold both buttons for one minute.

7. Put pump in standby. First, press and continue to hold \( \text{MODE} \), then press \( \text{STBY} \). Reconnect the suction and discharge lines.

8. Prime pump. First, press and continue to hold \( \text{MODE} \), then press \( \text{PRIME} \).

9. Place pump in desired operating mode. First, press and continue to hold \( \text{MODE} \), then press \( \uparrow \) or \( \downarrow \), release both buttons to select operating mode.
## PARTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
<th>UM</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Motor, brushless</td>
<td>EC301</td>
<td>EA</td>
</tr>
<tr>
<td><em>Not shown</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gear Kit</td>
<td>EC320</td>
<td>KIT</td>
</tr>
<tr>
<td><em>Includes spacers, screws &amp; Aquashield</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive Assembly Pad</td>
<td>EC302</td>
<td>EA</td>
</tr>
<tr>
<td>White Roller Assembly</td>
<td>EC350</td>
<td>EA</td>
</tr>
<tr>
<td><em>Pump tube F only</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Roller Assembly</td>
<td>EC351</td>
<td>EA</td>
</tr>
<tr>
<td><em>Pump tubes G &amp; H only</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Tube, ferrules 1/4&quot;</td>
<td>EC30_2</td>
<td>2-PK</td>
</tr>
<tr>
<td><em>Select F, G or H for __</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Head Cover</td>
<td>EC355</td>
<td>EA</td>
</tr>
<tr>
<td>Mounting Kit</td>
<td>EC303</td>
<td>KIT</td>
</tr>
<tr>
<td><em>For wall mount or Stenner tank</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stand</td>
<td>EC304</td>
<td>EA</td>
</tr>
<tr>
<td><em>For horizontal display or wall mount</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MOUNTING TEMPLATE
STENNER PUMP COMPANY

3174 DeSalvo Road
Jacksonville, Florida 32246 USA

Phone: 904.641.1666
US Toll Free: 800.683.2378
Fax: 904.642.1012

sales@stenner.com
www.stenner.com

Hours of Operation (EST):
Mon.–Thu. 7:30 am–5:30 pm
Fri. 7:00 am–5:30 pm

Assembled in the USA

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