### Notes:

1. Items shown in broken lines to be furnished by others.
2. All dimensions are ±1" (25mm) and subject to change without notice.
3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of non-conductive (dielectric) fittings may reduce galvanic corrosion.
5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally. Observe the local electrical codes.
6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.
7. System uses FRP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.
8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating weights shown on this drawing include the brine system.

### Dimensions (Inches)

<table>
<thead>
<tr>
<th>Model</th>
<th>Width A</th>
<th>Height B0S</th>
<th>Tank Dia D</th>
<th>Tank Height E</th>
<th>Inlet Outlet Pipe Sizes F</th>
<th>Drain Size H</th>
<th>Floor To Inlet J</th>
<th>Taste, Odor &amp; Organics Removal Flow gpm @ psi drop</th>
<th>De-Chlorination Flow gpm @ psi drop</th>
<th>Resin Volume ft³</th>
<th>Drain Flow gpm</th>
<th>Min. Drain Pipe Size In</th>
<th>Simplex Oper. WT lbs.</th>
<th>Simplex Ship. WT lbs.</th>
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<td>24</td>
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<td>2.0</td>
<td>74</td>
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### Notes:

1. Items shown in broken lines to be furnished by others.
2. All dimensions are ±1" (25mm) and subject to change without notice.
3. Union should be located on inlet and outlet connections of control valve to facilitate servicing.
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### Dimensions (Inches)

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<td>81  3.6</td>
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### Diagram

- **Outlet (P)**
- **Inlet (P)**
- **Bypass Valve (Normally Closed)**
- **Filtered Water**
- **Raw Water**
- **Manual Outlet Valve**
- **Manual Inlet Valve**
- **CTW Controller**
- **View of Single F Installation**
### Dimensions (Inches)

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<td>88</td>
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### Notes:
1. Items shown in broken lines to be furnished by others.
2. All dimensions are ± 1/8" (25mm) and subject to change without notice.
3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of nonconductive (dielectric) fittings may reduce galvanic corrosion.
5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally. Observe the local electrical codes.
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8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating weights shown on this drawing include the brine system.

### Duplex Installation

- **Filtered Water**
- **Bypass Valve (Normally Closed)**
- **Manual Outlet Valve**
- **Manual Inlet Valve**
- **CTM Controller**

**Tolerances:** ±1/8" unless otherwise noted.
### NOTES:

1. ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
2. ALL DIMENSIONS ARE 1⁄8" (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
3. UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
4. THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED, WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (CHEMICAL) FITTINGS MAY REDUCE GALVANIC CORROSION.
5. A TEN FOOT POWER CORD (LONGER LENGTHS AVAILABLE) AND WALL MOUNT TRANSFORMER ARE PROVIDED. THE CUSTOMER SHOULD PROVIDE A RECEPTACLE, PREFERABLY ONE NOT CONTROLLED BY A SWITCH THAT CAN BE TURNT OFF ACCIDENTALLY, OBSERVE THE LOCAL ELECTRICAL CODES.
6. ALLOW 6-12 INCHES BEHIND THE UNIT FOR PLUMBING AND DRAIN LINES AND 12 INCHES ABOVE OVERALL HEIGHT FOR SERVICE ACCESS AND FILLING THE SALT CONTAINER.
7. SYSTEM USES FRP TANK WHICH MUST NOT BE SUBJECTED TO VACUUM CONDITIONS. SYSTEM CONTROL VALVE DESIGN HAS INTEGRATED VACUUM BREAKER TO PREVENT SUCH CONDITIONS WHICH SHOULD NOT BE REMOVED DURING OPERATION.
8. TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST TWO TIMES THE DIAMETER OF THE DRAIN PIPE OR COMFORM TO LOCAL SANITATION CODES.
9. BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SYSTEM.
10. SHIPPING AND OPERATING WEIGHTS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.

### DIMENSIONS (INCHES)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>TANK DIA</th>
<th>TANK HEIGHT</th>
<th>INLET</th>
<th>OUTLET PIPE SIZES</th>
<th>DRAIN SIZE</th>
<th>FLOOR TO INLET</th>
<th>TASTE, ODOR &amp; ORGANICS REMOVAL FLOW</th>
<th>DE-CHLORINATION FLOW</th>
<th>RESIN VOLUME</th>
<th>DRAIN FLOW</th>
<th>MIN. DRAIN SIZE</th>
<th>DUPLEX OPER. WT.</th>
<th>DUPLEX SHIP. WT.</th>
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<tr>
<td>CTM-21-CF</td>
<td>53</td>
<td>85.5</td>
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<td>CTM-24-CF</td>
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### UNIT DATA PER TANK

- **Outlet Installation**

![Diagram](image-url)

**Notes:**

- Do not scale drawing.
- Tolerances: 1⁄8" unless otherwise noted.
- Name: CTM 1.5" Metered
- Automatic carbon filter system.

![Technical Data Sheet](image-url)

- Manufacturer: Culligan®
- Engineered Systems
- Rosemont, Illinois
- Print and all of material are not to be used without the written consent of Culligan International Co.

**Part No.:** DRW-2144

**Detailed By:**

- Printed: 6/15/15
- Appr. By: 8/15/15
- Sheet: 1 of 1
## NOTES:

1. ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.

2. ALL DIMENSIONS ARE 11/16" (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.

3. UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.

4. THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED, WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (DELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.

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6. ALLOW 6-12 INCHES BEHIND THE UNIT FOR PLUMBING AND DRAIN LINES AND 12 INCHES ABOVE OVERALL HEIGHT FOR SERVICE ACCESS AND FILLING THE SALT CONTAINER.

7. SYSTEM USES FPE TANKS WHICH MUST NOT BE Subjected To VACUUM CONDITIONS. SYSTEM CONTROL VALVE DESIGN HAS INTEGRATED VACUUM BREAKER TO PREVENT SUCH CONDITIONS WHICH SHOULD NOT BE REMOVED DURING OPERATION.

8. TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN, PROVIDE AN AIR GAP OF AT LEAST TWO TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.

9. BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SYSTEM.

10. SHIPPING AND OPERATING WEIGHTS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.

### Table: Dimensions (Inches)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>TANK</th>
<th>TANK</th>
<th>INLET</th>
<th>OUTLET</th>
<th>PIPE SIZES</th>
<th>DRAWN</th>
<th>FLOOR</th>
<th>TO INLET</th>
<th>TASTE, OOD &amp;</th>
<th>ORGANSMS</th>
<th>REMOVAL</th>
<th>FLOW</th>
<th>gpm @ pel drop</th>
<th>DE-</th>
<th>CHLORINATION</th>
<th>FLOW</th>
<th>gpm @ pel drop</th>
<th>RESIN</th>
<th>VOLUME</th>
<th>ft³</th>
<th>DRAIN</th>
<th>FLOW</th>
<th>gpm</th>
<th>MIN. DRAIN</th>
<th>PIPE SIZE</th>
<th>IN.</th>
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<th>OPER. WT. lbs</th>
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### Diagram: Installation

- **Outlet (F)**
- **Inlet (F)**
- **Top View**
- **Filtered Water**
- **Manual Outlet Valve**
- **Bypass Valve (Normally Closed)**
- **Manual Inlet Valve**
- **CTW Controller**

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**Culligan® ENGINEERED SYSTEMS**

**ROSEMONT, ILLINOIS**

**NAME**: CTW 2.0" METERED AUTOMATIC CARBON FILTER TRIPLEX

**TECHNICAL DATA SHEET**: DRW-2149

**PRINT AND BILL OF MATERIALS ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL COMPANY.**

**DESIGNED BY**: A
**REVISED**: 10/17
**DATE**: 2/10/17

---

**TOLERANCES**: ±1/8" UNLESS OTHERWISE NOTED
### Dimensions (Inches)

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<thead>
<tr>
<th>Model</th>
<th>Width A</th>
<th>Height B(6)</th>
<th>Tank Dia. D</th>
<th>Tank Height E</th>
<th>INLET Outlet Pipe Sizes F</th>
<th>Drain Size H</th>
<th>FLOOR TO INLET J</th>
<th>TASTE, ODOR &amp; ORGANICS REMOVAL FLOW gpm @ pel drop</th>
<th>DE-CHLORINATION FLOW gpm @ pel drop</th>
<th>RESIN VOLUME ft³</th>
<th>Drain Flow gpm</th>
<th>Min. Drain Pipe Size In.</th>
<th>Triplex Oper. Wt. lbs.</th>
<th>Triplex Ship. Wt. lbs.</th>
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<td>CTM-24-CF</td>
<td>85</td>
<td>92.7</td>
<td>24.72</td>
<td>1.5</td>
<td>2.0</td>
<td>81.3</td>
<td>16 @ 2</td>
<td>31 @ 4</td>
<td>11.0</td>
<td>10</td>
<td>1.5</td>
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<td>30.72</td>
<td>1.5</td>
<td>2.0</td>
<td>86</td>
<td>25 @ 3</td>
<td>49 @ 8</td>
<td>16.5</td>
<td>10</td>
<td>2.0</td>
<td>4467</td>
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<td>38.72</td>
<td>1.5</td>
<td>2.0</td>
<td>88.4</td>
<td>30 @ 3</td>
<td>71 @ 3</td>
<td>24.5</td>
<td>70</td>
<td>2.0</td>
<td>6324</td>
<td>3405</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
1. Items shown in broken lines to be furnished by others.
2. All dimensions are ±1" (25mm) and subject to change without notice.
3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of nonconductive (dielectric) fittings may reduce galvanic corrosion.
5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch, that can be turned off accidentally. Observe the local electrical codes.
6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.
7. System uses FIP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.
8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating weights shown on this drawing include the brine system.
NOTES:

1. Items shown in broken lines to be furnished by others.
2. All dimensions are ±1" (25mm) and subject to change without notice.
3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of nonconductive (dielectric) fittings may reduce galvanic corrosion.
5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally. Observe the local electrical codes.
6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.
7. System uses FRP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.
8. To permit the observation of drain flow, do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating weights shown on this drawing include the brine system.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>TANK GPA</th>
<th>TANK HEIGHT</th>
<th>INLET OUTLET PIPE SIZES</th>
<th>FLOOR TO INLET</th>
<th>TASTE ODOUR &amp; ORGANICS REMOVAL FLOW</th>
<th>DECHLORINATION FLOW</th>
<th>RESIN VOLUME</th>
<th>DRAIN FLOW</th>
<th>MIN. DRAIN PIPE SIZE</th>
<th>QUAD OPER. WT.</th>
<th>QUAD SHIPP. WT.</th>
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<tr>
<td>CTW-21-CF</td>
<td>141</td>
<td>85.5</td>
<td>21 62</td>
<td>2.0</td>
<td>2.0</td>
<td>74</td>
<td>12 1.5</td>
<td>24 4</td>
<td>6.0</td>
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<td>92.7</td>
<td>24 72</td>
<td>2.0</td>
<td>2.0</td>
<td>81.3</td>
<td>15 2</td>
<td>31 4</td>
<td>11.0</td>
<td>30</td>
<td>1.5</td>
<td>3724</td>
<td>2220</td>
</tr>
<tr>
<td>CTW-30-CF</td>
<td>138</td>
<td>97.4</td>
<td>30 72</td>
<td>2.0</td>
<td>2.0</td>
<td>86</td>
<td>25 3</td>
<td>46 5</td>
<td>16.5</td>
<td>48</td>
<td>2.0</td>
<td>5956</td>
<td>3280</td>
</tr>
<tr>
<td>CTW-36-CF</td>
<td>182</td>
<td>99.8</td>
<td>36 72</td>
<td>2.0</td>
<td>2.0</td>
<td>88.4</td>
<td>35 3</td>
<td>71 9</td>
<td>24.5</td>
<td>70</td>
<td>2.0</td>
<td>8432</td>
<td>4540</td>
</tr>
</tbody>
</table>

OUTLET (F) ---> INLET (F)

A

TOP VIEW

BYPASS VALVE (NORMALLY CLOSED)

CTW CONTROLLER

MASSIVE WATER

MANUAL INLET VALVE

MANUAL OUTLET VALVE

FILTERED WATER

A

NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

PRINT AND MAIL OF MATERIAL ARE NOT
**NOTES:**

1. Items shown in broken lines to be furnished by others.
2. All dimensions are 1/16" (2mm) and subject to change without notice.
3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of nonconductive (dielectric) fittings may reduce galvanic corrosion.
5. A ten-foot power cord (longer lengths available) and wall-mount transformer are provided. The customer should provide a receptacle. Preferable one not controlled by a switch that can be turned off accidentally. Observe the local electrical codes.
6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.
7. System uses FRP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.
8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating heights shown on this drawing include the brine system.

| Model  | Width (A) | Height (B/6) | Tank Dia (D) | Tank Height (E) | Inlet Outlet Pipe Sizes (F) | Drain Size (H) | Floor to Inlet (J) | Taste, Odor & Organics Removal Flow (gpm @ pel drop) | Chlorination Flow (gpm @ pel drop) | Resin Volume (ft³) | Drain Flow (gpm) | Min. Drain Pipe Size (In.) | Quad Oper. Wt. (lb.) | Quad Ship. Wt. (lb.) |
|--------|-----------|--------------|--------------|-----------------|----------------------------|----------------|-------------------|--------------------------------|--------------------------------|-----------------|----------------|--------------------------|-------------------|----------------|}
| CTM-21-CF | 141 | 85.5 | 21 | 62 | 1.5 | 2.0 | 74 | 12 @ 1.5 | 24 @ 4 | 8.0 | 20 | 1.5 | 2248 | 1920 |
| CTM-24-CF | 146 | 92.7 | 24 | 72 | 1.5 | 2.0 | 81.3 | 16 @ 2 | 31 @ 4 | 11.0 | 30 | 1.5 | 3724 | 2220 |
| CTM-30-CF | 138 | 97.4 | 30 | 72 | 1.5 | 2.0 | 86 | 25 @ 3 | 40 @ 6 | 16.5 | 48 | 2.0 | 5656 | 3280 |
| CTM-36-CF | 162 | 99.8 | 36 | 72 | 1.5 | 2.0 | 86.4 | 35 @ 3 | 71 @ 9 | 24.5 | 70 | 2.0 | 8432 | 4540 |

**Diagram:**

- TOP VIEW
- OUTLET (F)
- INLET (F)
- BYPASS VALVE (NORMALLY CLOSED)
- RAW WATER
- FILTERED WATER
- MANUAL OUTLET VALVE
- MANUAL INLET VALVE
- CTM CONTROLLER

**Legend:**

- DO NOT SCALE DRAWING TOLERANCES: 1/16" UNLESS OTHERWISE NOTED
- ENGINEERED SYSTEMS
- ROSEMONT, ILLINOIS
- Culligan®
- DRW-2146
### Notes:

1. Items shown in broken lines to be furnished by others.
2. All dimensions are 4" (25mm) and subject to change without notice.
3. Union should be located on inlet and outlet connections of Control Valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of non-conductive (electric) fittings may reduce galvanic corrosion.
5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally. Observe the local electrical codes.
6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.
7. System uses FIP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.
8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating weights shown on this drawing include the brine system.

### Dimensions (Inches)

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Height</th>
<th>Tank Dia</th>
<th>Tank Height</th>
<th>Inlet Outlet Pipe Sizes</th>
<th>Drain Size</th>
<th>Floor To Inlet</th>
<th>Normal Flow gpm @ 15 psi drop</th>
<th>Peak Flow gpm @ 25 psi drop</th>
<th>Resin Volume ft³</th>
<th>Drain Flow gpm</th>
<th>Min. Drain Pipe Size</th>
<th>Simplex Oper. Wt. lbs</th>
<th>Simplex Ship. Wt. lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTM-21-OF</td>
<td>24</td>
<td>85.5</td>
<td>21</td>
<td>62</td>
<td>2.0</td>
<td>2.0</td>
<td>74</td>
<td>24 @ 5</td>
<td>36 @ 10</td>
<td>7.4</td>
<td>30</td>
<td>1.5</td>
<td>562</td>
<td>470</td>
</tr>
<tr>
<td>CTM-24-OF</td>
<td>24</td>
<td>92.7</td>
<td>24</td>
<td>72</td>
<td>2.0</td>
<td>2.0</td>
<td>81.3</td>
<td>32 @ 5</td>
<td>48 @ 9</td>
<td>11.1</td>
<td>48</td>
<td>1.5</td>
<td>931</td>
<td>555</td>
</tr>
<tr>
<td>CTM-30-OF</td>
<td>30</td>
<td>97.4</td>
<td>30</td>
<td>72</td>
<td>2.0</td>
<td>2.0</td>
<td>85</td>
<td>50 @ 7</td>
<td>74 @ 11</td>
<td>15.6</td>
<td>70</td>
<td>2.0</td>
<td>1499</td>
<td>620</td>
</tr>
<tr>
<td>CTM-36-OF</td>
<td>36</td>
<td>99.8</td>
<td>36</td>
<td>72</td>
<td>2.0</td>
<td>2.0</td>
<td>88.4</td>
<td>71 @ 10</td>
<td>107 @ 19</td>
<td>23.6</td>
<td>90</td>
<td>2.0</td>
<td>2108</td>
<td>1135</td>
</tr>
</tbody>
</table>

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**Diagram of CTM 2.0 Metered Automatic Depth-Cullcorg Filter Single Technical Data Sheet**

**Manufacturer:** Culligan, Engined Systems, Rosemont, Illinois

**Technical Data Sheet:**

- **Name:** CTM 2.0 Metered Automatic Depth-Cullcorg Filter Single Technical Data Sheet
- **Date:** 5/04/15
- **App. Wt.:** 4/17
- **Sheet:** 1 of 1

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---
NOTES:

(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.

(2) ALL DIMENSIONS ARE 1" (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.

(3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.

(4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (Dielectric) FITTINGS MAY REDUCE GALVANIC CORROSION.

(5) A TEN FOOT POWER CORD (LONGER LENGTHS AVAILABLE) AND WALL MOUNT TRANSFORMER ARE PROVIDED. THE CUSTOMER SHOULD PROVIDE A RECEPTACLE, PREFERABLY ONE NOT CONTROLLED BY A SWITCH THAT CAN BE TURNED OFF ACCIDENTALLY. OBSERVE THE LOCAL ELECTRICAL CODES.

(6) ALLOW 6-12 INCHES BEHIND THE UNIT FOR PLUMBING AND DRAIN LINES AND 12 INCHES ABOVE OVERALL HEIGHT FOR SERVICE ACCESS AND FILLING THE SALT CONTAINER.

(7) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM CONDITIONS. SYSTEM CONTROL VALVE DESIGN HAS INTEGRATED VACUUM BREAKERS TO PREVENT SUCH CONDITIONS WHICH SHOULD NOT BE REMOVED DURING OPERATION.

(8) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST TWO TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.

(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SYSTEM.

(10) SHIPPING AND OPERATING WEIGHTS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.
**NOTES:**

1. Items shown in broken lines to be furnished by others.
2. All dimensions are ±1/16" (25mm) and subject to change without notice.
3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.
4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of nonconductive (dielectric) fittings may reduce galvanic corrosion.
5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally, observe the local electrical codes.
6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.
7. System uses FRP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.
8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe, or conform to local sanitation codes.
9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.
10. Shipping and operating weights shown on this drawing include the brine system.

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Height</th>
<th>Tank Dia. D</th>
<th>Tank Height E</th>
<th>Inlet Outlet Pipe Sizes F</th>
<th>Drain Size H</th>
<th>Floor to Inlet</th>
<th>Normal Flow gpm @ 15 psi drop</th>
<th>Peak Flow gpm @ 25 psi drop</th>
<th>Resin Volume n^3</th>
<th>Drain Flow gpm</th>
<th>Min. Drain Pipe Size In.</th>
<th>Duplex Oper. Wt. lbs.</th>
<th>Duplex Ship. Wt. lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTW-21-ST</td>
<td>53</td>
<td>80.5</td>
<td>21</td>
<td>82</td>
<td>2.0</td>
<td>2.0</td>
<td>74</td>
<td>24.0</td>
<td>36.0</td>
<td>10.0</td>
<td>7.4</td>
<td>30</td>
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<td>CTW-24-ST</td>
<td>58</td>
<td>92.7</td>
<td>24</td>
<td>72</td>
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<td>2.0</td>
<td>81.3</td>
<td>32.0</td>
<td>48.0</td>
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<tr>
<td>CTW-30-ST</td>
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<td>4216</td>
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</table>

**Figure:** Duplex Installation

**Diagram:**

1. OUTLET (F)
2. INLET (F)
3. TOP VIEW
4. FILTERED WATER
5. RAW WATER
6. BYPASS VALVE (NORMALLY CLOSED)
7. MANUAL OUTLET VALVE
8. MANUAL INLET VALVE
9. CTW CONTROLLER
10. H (HEIGHT)
11. D (DIAMETER)
12. E (RECENT)
13. R (ROOM TEMPERATURE)

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**Technical Data Sheet:**

**Engineered Systems:** ROSEMONT, ILLINOIS

**Culligan®**

**CTW 2" Metered Automatic Depth—Culsoa Filter Duplex**

**Technical Data Sheet**

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**Ref. No.** DRW-2156

**Part No.**
**NOTES:**

1. Items shown in broken lines to be furnished by others.

2. All dimensions are 1/16th (25mm) and subject to change without notice.

3. Unions should be located on inlet and outlet connections of control valve to facilitate servicing.

4. The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of nonconductive (dielectric) fittings may reduce galvanic corrosion.

5. A ten foot power cord (longer lengths available) and wall mount transformer are provided. The customer should provide a receptacle. Preferable one not controlled by a switch that can be turned off accidentally. Observe the local electrical codes.

6. Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.

7. System uses FIP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.

8. To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.

9. Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.

10. Shipping and operating weights shown on this drawing include the brine system.

**DIMENSIONS (INCHES)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>TANK DIAM</th>
<th>TANK HEIGHT</th>
<th>INLET OUTLET PIPE SIZES</th>
<th>FLOOR TO INLET</th>
<th>NORMAL FLOW (gpm) @ 15 psi drop</th>
<th>PEAK FLOW (gpm) @ 25 psi drop</th>
<th>RESIN VOLUME (ft³)</th>
<th>DRAIN FLOW (gpm)</th>
<th>MIN. DRAIN PIPE SIZE (IN)</th>
<th>DRAFTER</th>
<th>DUAL STAGE WT. (lb)</th>
<th>DUAL SHIP WT. (lb)</th>
</tr>
</thead>
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<tr>
<td>CTW-21-0F</td>
<td>53</td>
<td>85.5</td>
<td>21</td>
<td>82</td>
<td>1.5</td>
<td>2.0</td>
<td>74</td>
<td>24</td>
<td>5</td>
<td>36</td>
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<td>1.5</td>
</tr>
<tr>
<td>CTW-24-0F</td>
<td>56</td>
<td>92.7</td>
<td>24</td>
<td>72</td>
<td>1.5</td>
<td>2.0</td>
<td>81.3</td>
<td>32</td>
<td>5</td>
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</tr>
<tr>
<td>CTW-30-0F</td>
<td>66</td>
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<td>30</td>
<td>72</td>
<td>1.5</td>
<td>2.0</td>
<td>96</td>
<td>50</td>
<td>7</td>
<td>74</td>
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<tr>
<td>CTW-36-0F</td>
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<td>99.8</td>
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<td>2.0</td>
<td>88.4</td>
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<td>10</td>
<td>107</td>
<td>19</td>
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<td>90</td>
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</tr>
</tbody>
</table>

**UNIT DATA PER TANK**

**Duplex Installation**
NOTES:
(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
(2) ALL DIMENSIONS ARE ±1" (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
(3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
(4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED, WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (DELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
(5) A TEN FOOT POWER CORD (LONGER LENGTHS AVAILABLE) AND WALL MOUNT TRANSFORMER ARE PROVIDED. THE CUSTOMER SHOULD PROVIDE A RECEPTACLE, PREPARED ONE NOT CONTROLLED BY A SWITCH THAT CAN BE TURNED OFF ACCIDENTALLY, OBSERVE THE LOCAL ELECTRICAL CODES.
(6) ALLOW 6-12 INCHES BEHIND THE UNIT FOR PLUMBING AND DRAIN LINES AND 12 INCHES ABOVE OVERALL HEIGHT FOR SERVICE ACCESS AND.FILLING THE SALT CONTAINER.
(7) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM CONDITIONS, SYSTEM CONTROL VALVE DESIGN HAS INTEGRATED VACUUM BREAKER TO PREVENT SUCH CONDITIONS WHICH SHOULD NOT BE REMOVED DURING OPERATION.
(8) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN, PROVIDE AN AIR GAP OF AT LEAST TWO TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
(10) SHIPPING AND OPERATING WEIGHS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.
NOTES:
(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
(2) ALL DIMENSIONS ARE 1" (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
(3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
(4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (NEUTRAL) FITTINGS MAY REDUCE GALVANIC CORROSION.
(5) A TEN FOOT POWER CORD (LONGER LENGTHS AVAILABLE) AND WALL MOUNT TRANSFORMER ARE PROVIDED. THE CUSTOMER SHOULD PROVIDE A RECEPTECLE, PROVIDING ONE NOT CONTROLLED BY A SWITCH THAT CAN BE TURNED OFF ACCIDENTALLY.
(6) ALLOW 6-12 INCHES BEHIND THE UNIT FOR PLUMBING AND DRAIN LINES AND 12 INCHES ABOVE OVERALL HEIGHT FOR SERVICE ACCESS AND FILLING THE SALT CONTAINER.
(7) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM CONDITIONS. SYSTEM CONTROL VALVE DESIGN HAS INTEGRATED VACUUM BREAKER TO PREVENT SUCH CONDITIONS WHICH SHOULD NOT BE REMOVED DURING OPERATION.
(8) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST TWO TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
(10) SHIPPING AND OPERATING WEIGTHS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.

DIMENSIONS (INCHES)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>TANK DIA.</th>
<th>TANK HEIGHT</th>
<th>INLET / OUTLET PIPE SIZES</th>
<th>DRAIN SIZE</th>
<th>FLOOR TO INLET</th>
<th>NORMAL FLOW gpm @ 15 psi drop</th>
<th>PEAK FLOW gpm @ 25 psi drop</th>
<th>RESIN VOLUME in³</th>
<th>DRAIN FLOW gpm</th>
<th>MIN. DRAIN SIZE</th>
<th>TRIPLEX OPER. WT. lbs</th>
<th>TRIPLEX SHIP. WT. lbs</th>
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</thead>
<tbody>
<tr>
<td>CTM-21-EF</td>
<td>82</td>
<td>85.5</td>
<td>21</td>
<td>62</td>
<td>1.5</td>
<td>2.0</td>
<td>74</td>
<td>24 @ 5</td>
<td>36 @ 10</td>
<td>7.4</td>
<td>30</td>
<td>1.5</td>
<td>1886</td>
<td>1410</td>
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<tr>
<td>CTM-24-EF</td>
<td>88</td>
<td>92.7</td>
<td>24</td>
<td>72</td>
<td>1.5</td>
<td>2.0</td>
<td>81.3</td>
<td>32 @ 5</td>
<td>46 @ 9</td>
<td>11.1</td>
<td>48</td>
<td>1.5</td>
<td>2793</td>
<td>1865</td>
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<tr>
<td>CTM-30-EF</td>
<td>102</td>
<td>97.4</td>
<td>30</td>
<td>72</td>
<td>1.5</td>
<td>2.0</td>
<td>88</td>
<td>50 @ 7</td>
<td>74 @ 11</td>
<td>15.6</td>
<td>70</td>
<td>2.0</td>
<td>4467</td>
<td>2460</td>
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<tr>
<td>CTM-36-EF</td>
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<td>99.8</td>
<td>36</td>
<td>72</td>
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<td>2.0</td>
<td>88.4</td>
<td>71 @ 10</td>
<td>107 @ 19</td>
<td>23.6</td>
<td>90</td>
<td>2.0</td>
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<td>3405</td>
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OUTLET (F) INLET (P)

TOP VIEW

FILTERED WATER

MANUAL OUTLET VALVE

BYPASS VALVE (NORMALLY CLOSED)

RAW WATER

MANUAL INLET VALVE

CTM CONTROLLER

TRIPLEX INSTALLATION

Culligan®
ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME

CTM 1.5" METERED AUTOMATIC DEPTH-CULSORB FILTER TRIPLEX TECHNICAL DATA SHEET

PRINT AND BIL OF MATERIALS NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

REF. NO. DRW-2153

PART NO.
### Table: Dimensions (Inches) vs. Unit Data per Tank

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Height (H)</th>
<th>Tank Dia.</th>
<th>Tank Height</th>
<th>Inlet Outlet Pipe Sizes F</th>
<th>Drain Size</th>
<th>Floor to Inlet</th>
<th>Normal Flow gpm @ 15 psi drop</th>
<th>Peak Flow gpm @ 25 psi drop</th>
<th>Resin Volume ft³</th>
<th>Drain Flow gpm</th>
<th>Min. Drain Pipe Size in.</th>
<th>Quad Oper. Wt.</th>
<th>Quad Ship. Wt.</th>
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</thead>
<tbody>
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<td>CTM-21-1F</td>
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<td>2.0</td>
<td>2.0</td>
<td>74</td>
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<td>2.0</td>
<td>81.3</td>
<td>32 @ 5</td>
<td>48 @ 9</td>
<td>11.1</td>
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<td>1.5</td>
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<td>2220</td>
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<td>30</td>
<td>72</td>
<td>2.0</td>
<td>2.0</td>
<td>86</td>
<td>50 @ 7</td>
<td>74 @ 11</td>
<td>15.6</td>
<td>70</td>
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<tr>
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<td>36</td>
<td>72</td>
<td>2.0</td>
<td>2.0</td>
<td>88.4</td>
<td>71 @ 10</td>
<td>107 @ 19</td>
<td>23.6</td>
<td>90</td>
<td>2.0</td>
<td>8432</td>
<td>4040</td>
</tr>
</tbody>
</table>

### Notes:
1. **Items shown in broken lines to be furnished by others.**
2. **All dimensions are ±1" (25mm) and subject to change without notice.**
3. **Unions should be located on inlet and outlet connections of control valve to facilitate servicing.**
4. **The use of dissimilar metals in a piping system is not recommended. Where dissimilar metals must be connected in a water system, the use of non-conductive (electroless) fittings may reduce galvanic corrosion.**
5. **A ten foot power cord (longer lengths available) and will mount transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally, observe the local electrical codes.**
6. **Allow 6-12 inches behind the unit for plumbing and drain lines and 12 inches above overall height for service access and filling the salt container.**
7. **System uses FIP tanks which must not be subjected to vacuum conditions. System control valve design has integrated vacuum breaker to prevent such conditions which should not be removed during operation.**
8. **To permit the observation of the drain flow do not make a direct connection to the drain. Provide an air gap of at least two times the diameter of the drain pipe or conform to local sanitation codes.**
9. **Brine tank dimensions shown are for the brine tank most commonly selected for use with this size system.**
10. **Shipping and operating weights shown on this drawing include the brine system.**

### Diagram:
- **Top View**
- **Quad Installation**

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**Culligan® ENGINEERED SYSTEMS**

**Rosemont, Illinois**

**CTM 2.0" METERED AUTOMATIC DEPTH-CULSOR® FILTER QUAD TECHNICAL DATA SHEET**

**Do not scale drawing. Tolerances: ±1/8" unless otherwise noted.**

**Printing and Bill of Materials are not to be used without the written consent of Culligan International Co.**

**Drawing No.** DRW-2158
NOTES:

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