This drawing is a quick reference guide for induction heating systems. For further information, see operation manual OM-UPT-030-230-00.

This drawing subject to change without notice.

Power Supply
- Weight: 5kg [11lbs]
- 0UPT-030-230-00 SM-2/200

Heat Station
- HS-SW
- HS-4W
- HS-4AN

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (lbs)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ACC-030-150-00</td>
<td>4.7</td>
<td>HS-SW</td>
</tr>
<tr>
<td>1ACC-030-160-00</td>
<td>4.7</td>
<td>HS-4W</td>
</tr>
<tr>
<td>1ACC-030-200-00</td>
<td>4.7</td>
<td>HS-4AN</td>
</tr>
</tbody>
</table>

Dimensions are in millimeters.
**POWER SUPPLY SM-2/200**

- **Control Heat Station**
- **RS Communication**
- **External Controls Input**
- **External Controls Output**
- **EARTH GROUND TO HEAT STATION**

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**HS-4W HS-5W**

- **Water Inlet**
- **EARTH GROUND FROM POWER SUPPLY**
- **Water Outlet**
- **Control Cable to Power Supply**
- **Power Supply RF cable**

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**HS-4AN**

- **Control Cable to Power Supply**
- **External Start/Stop**
- **External controls cable**
- **External Emergency Stop**

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**ELECTRICAL AND COOLING**

<table>
<thead>
<tr>
<th>Specification</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC VOLATAGE</td>
<td>SM-2/200</td>
</tr>
<tr>
<td>LINE FREQUENCY</td>
<td>230VAC 1 PHASE 1/10%</td>
</tr>
<tr>
<td>INPUT MAX CURRENT</td>
<td>14 A @/230VAC 1/10%</td>
</tr>
<tr>
<td>INPUT MAXIMUM POWER</td>
<td>2.9 kVA 1/230VAC 1/10%</td>
</tr>
<tr>
<td>MINIMUM EFFICIENCY</td>
<td>88% FULL LOAD</td>
</tr>
<tr>
<td>POWER SUPPLY COOLING</td>
<td>AIR cooled Fan vents</td>
</tr>
<tr>
<td>HEAT STATION COOLING</td>
<td>2 lpm [0.5 gpm]/AIR cooled</td>
</tr>
<tr>
<td>ADDITIONAL COIL COOLING</td>
<td>APPLICATION DEPENDANT CONSULT UPT FOR GUIDANCE</td>
</tr>
</tbody>
</table>

**HEAT STATIONS REAR VIEW**

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**DESCRIPTION**: Tolerances EN 22768/1.2-mH

**Finish/Treatment**: ISO 1302-Ra

**MATERIAL**: BASE

**DATE**: 2.12.2016 г.

**WEIGHT**: 6.81 g

**SIGNATURE**: A2

**SHEET 2 OF 3**

**SCALE**: 1:5

**COMMENTS**: DIMENSIONS ARE IN MILLIMETERS

**SURFACE FINISH**: Q.A

**APPV’D**: CHK’D

**DRAWN**: 2.12.2016 г.

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**OID-OUPT-030-230-00**

**OUTLINE & INSTALLATION DRAWING**

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**PROPRIETARY AND CONFIDENTIAL**

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The following are recommendations for water quality for use with UPT induction Systems to ensure a long service life of the equipment.

As many as 80% of problems with Induction Heating equipment can be traced to water related issues, so maintaining the water system is critical to ensure high reliability. Failure to meet these water guidelines can void the warranty of the equipment. Ultraflex Power Technologies recommends the use of isolated water loops for our Induction Heating equipment. Use of plant water directly in our products can void the warranty. Water to Air, Chillers, and Water to Water systems are available from UPT, please contact your sales associate for more details.

Use clean distilled water, if possible. The following are the recommended water quality specifications:

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>RECOMMENDED</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL HARDNESS (CaCO3)</td>
<td>15 PPM</td>
<td>100 PPM</td>
</tr>
<tr>
<td>TOTAL DISSOLVED SOLIDS</td>
<td>25 PPM</td>
<td>200 PPM</td>
</tr>
<tr>
<td>CONDUCTIVITY</td>
<td>20-50 MICRO-OHM / CM</td>
<td>&lt;20, &gt;50 MICRO-OHM / CM</td>
</tr>
<tr>
<td>SUSPENDED SOLIDS</td>
<td>0.1 PPM</td>
<td>1.0 PPM</td>
</tr>
<tr>
<td>pH **</td>
<td>7.0-7.5</td>
<td>&lt;7.0, &gt;7.5</td>
</tr>
</tbody>
</table>

Water conductivity that is too low (e.g. De-ionized Water) is not recommended. ** If the pH falls below 4.0 or rises above 9.0, the system should not be used and a system flush/fill should take place as soon as possible.

For HS-4AN NOT needed water cooling

HOSES AND VALVES NOT INCLUDED. OPTIONAL PLUMBING KITS CAN BE ORDERED UPON REQUEST

COMMUNICATIONS CABLE
GROUNDING CABLE
RF CABLE
OPTIONAL FLEX LEADS TO BRING COIL TO THE LOAD

Adaptor bars
CUSTOM COIL
CUSTOM COIL

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