**Thawline™ Bubbler Systems** are designed to provide a reliable and efficient linear ice opening to protect marine structures from winter ice damage due to ice jacking/lifting and ice expansion.

The system uses flexible self-sinking Bubble Tubing® that can easily follow the contours of submerged structures, providing permanent protection of docks, boats, boat houses or any fixed structure prone to ice damage.

The system also provides oxygen to the water which improves water quality and prevents winter fish kills.

The low operational cost, ease of permanent installation and no moving parts in the water makes the **Thawline™ Bubbler System** a reliable de-icing option for years to come.

**Thawline™ Bubbler Systems** provides narrow linear openings in the ice and are used where large open areas are not desirable.

**Advantages**
- Provides better control on the location and size of the ice opening.
- Permanent installation.
- Low operational costs.
- Protects any submerged structure.

- No electricity or moving parts in the water.
- Works well in fresh or salt water applications.
- Protects against ice pressure, ice jacking and ice shifting.

**Standard Systems or Custom System available:**
- **BBLR-50**: System using 50’ of weighted Bubble Tubing®
- **BBLR-100**: System using 100’ of weighted Bubble Tubing®
- Custom de-icing systems are also available. Call us for more details.

2 Plug & Play Standard Systems or Custom Thawline Bubblers available for specific requirements.

**Components**
- Electric compressor, UL, CSA and CE approved
- Flexible feeder lines
- Flexible Bubble Tubing®
- Accessories, installation instructions, design and troubleshooting are available.

513 Knowlton, Lac-Brome, Québec J0E 1V0 CANADA
T: 450 243-0976       F: 450 243-1834
info@canadianpond.ca – Thawline™ Bubbler System
De-Icing

Thawline™ Bubbler System also provides oxygen to the water which improves water quality and prevents winter fish kills.

Installation is easy and permanent; instructions and tech support provided.

Thawline™ Bubbler System ice opening size will vary based on ambient air temperature and local conditions.

Lay the Bubble tubing at the same depth along its entire length to ensure a uniform bubble pattern.

For optimal results, the system should be running 24/7 during winter.

Every standard system includes:
- Compressor
- Self-sinking feeder line
- Bubble Tubing® diffuser
- Compressor base & vibration feet
- Fan, fan guard
- Manual

Note: The compressor must be installed in a vented shelter protecting the unit against heat and the elements.

Safety warnings:
- Verify with Authorities if de-icing complies with local regulations and if a permit is required.
- Provide adequate, visible signage and lighting around the perimeter of the de-iced area to warn people of the danger of drowning due to open and thin ice.

<table>
<thead>
<tr>
<th></th>
<th>BBLR-50</th>
<th>BBLR-50NW</th>
<th>BBLR-100</th>
<th>BBLR-100NW</th>
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</thead>
<tbody>
<tr>
<td>Compressor</td>
<td>½ HP double piston compressor 115 V, 4 Amps, 5.5 CFM, 50 psi 2-year warranty</td>
<td>¾ HP double piston compressor 115 V, 5.4 Amps, 7.4 CFM, 50 psi 2-year warranty</td>
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<tr>
<td>Flexible feeder line</td>
<td>50' Torpedo Tubing 5-year warranty</td>
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<tr>
<td>Bubble Tubing® diffuser</td>
<td>50’ Self-sinking B.T. 5-year warranty</td>
<td>50’ Non-weighted B.T. 5-year warranty</td>
<td>100’ Self-sinking B.T. 5-year warranty</td>
<td>100’ Non-weighted B.T. 5-year warranty</td>
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<tr>
<td>Also included:</td>
<td>Compressor base and feet (4) to reduce noise caused by vibration, 115V fan and fan guard, check valve, relief valve, manual and hardware.</td>
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