Innovative Combustion Solutions Worldwide

IMMERSOJET BURNERS

HIGH-EFFICIENCY IMMERSION HEATING SYSTEM

Eclipse Combustion
Packaged Immersion Burner/Blower System
Maximum Heat Efficiency.

Eclipse ImmersoJet burners provide 80%+ efficiencies and space-saving benefits.

**Designed for high performance and convenience.**

Eclipse ImmersoJet burners fire at high capacities through a small diameter immersion tube. The combustion gases from the burner scrub the inner tube surfaces to produce the highest heat transfer rate of any immersion burner available.

But that's not all. Check out these important time- and money-saving benefits:

- **ImmersoJet** produces the industry's highest heat capacities and efficiencies.
- **ImmersoJet's** tube requirements save valuable space inside the tank.
- **ImmersoJet** comes mounted with a reliable low or high pressure blower for ease of installation. Or, if desired, a non-packaged burner can be ordered with a remote blower.
- **ImmersoJet** quickly transfers its heat to the immersion tube, resulting in lower burner surface temperature.
- **ImmersoJet** provides faster heat-up times than any other immersion burner since it can go to high fire instantaneously.
- **ImmersoJet's** re-designed combustion chamber is outside the tank, taking up less space and providing more uniform heat.
- **ImmersoJet's** unique nozzle design ensures quiet operation.

**Ideal for retrofits.**

In conventional immersion heating, every cubic inch of a tank is crammed with a bulky, large diameter tube. Replacing this tube with a compact ImmersoJet tube can provide substantial advantages:

- Easier tube fabrication
- Lower tube material costs

**Easier handling and installation**

**Reduced fuel costs**

**Higher tank temperatures**

ImmersoJet can help you realize substantial savings when changing to materials that require higher temperatures by eliminating the need to replace existing tanks with larger ones.

**Perfect for new tanks, too.**

By combining high efficiency with small diameter tubes, the ImmersoJet gives you great design flexibility. With ImmersoJet you can:

- **Minimize tank size.** Reduce material and fabrication costs, and conserve floor space.

- **Reduce operating costs.** Minimize fuel costs, or increase production.

- **Reduce area requirements.** ImmersoJet tubes take up less space in a tank, allowing you greater design flexibility.

- **Multi-fuel capability.** Standard burner can be configured for natural gas, propane or butane fuel.

### Capacity Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Tube Size</th>
<th>Low-Pressure Packaged Blower</th>
<th>High-Pressure Packaged Blower</th>
<th>Remote Blower</th>
</tr>
</thead>
<tbody>
<tr>
<td>UJv2 2&quot;</td>
<td>2&quot;/50 mm</td>
<td>190,000/56 kW</td>
<td>235,000/69 kW</td>
<td>370,000/108 kW</td>
</tr>
<tr>
<td>UJv2 3&quot;</td>
<td>3&quot;/80 mm</td>
<td>440,000/129 kW</td>
<td>550,000/161 kW</td>
<td>850,000/249 kW</td>
</tr>
<tr>
<td>UJv2 4&quot;</td>
<td>4&quot;/100 mm</td>
<td>830,000/243 kW</td>
<td>1,000,000/293 kW</td>
<td>1,800,000/527 kW</td>
</tr>
<tr>
<td>UJv2 6&quot;</td>
<td>6&quot;/150 mm</td>
<td>2,000,000/586 kW</td>
<td>2,500,000/732 kW</td>
<td>3,600,000/1054 kW</td>
</tr>
</tbody>
</table>
High Velocity Equals High Efficiency

When you compare state-of-the-art ImmersoJet design with conventional immersion burners and tubes, ImmersoJet clearly comes out on top.

- A long, lazy fuel-rich flame travels down the tube.
- Low velocity causes a "dead gas film" to build up on the inside wall, reducing heat transfer efficiency.
- Tube size limits system efficiency potential to 70%.

- Flame is confined to combustion chamber.
- High velocity combustion gases scrub the inner tube surface, minimizing dead gas film.
- System efficiencies in excess of 80% are possible with smaller tube configurations.

Equal Heat in Half the Area!

Compare the conventional tube with the tube designed for use with the ImmersoJet, each designed for 70% efficiency with an input of 1 MM Btu/hr. Clearly, the ImmersoJet style tube is much smaller.

If this were a new tank, you could reduce tank size to fit the ImmersoJet tube, saving floor space and material costs.

Or, if floor space permits, you could lengthen the ImmersoJet tube and possibly add another pass in order to achieve efficiencies in excess of 80%.

In either case, ImmersoJet provides great flexibility in designing an immersion system that best meets your specific performance and space requirements.
Since 1908, Eclipse has been dedicated to "doing it better." That means analysis, specification, design, fabrication, installation, maintenance and repair service. The result? We can confidently say that nobody's products are better, nobody's application knowledge is greater, nobody's support system is more comprehensive.

When considering a supplier for your next combustion need, we suggest that you talk with others as well as Eclipse. Only then can you fully know the important added-value benefits built into Eclipse products and services... benefits that can contribute to a more profitable operation year after year after year.

For assistance with your next combustion requirement, contact your local Eclipse sales office.

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