Lance Burner
PL 5-50 MW

The advantage of the PL Burner

• Proven in use as a start-up and support burner of solid fuel boilers
• Requires small mounting opening in boiler and to high fuel efficiency
• Low maintenance
• Automatic heat protection hatches
• Optimal combustion with low emissions
• Simple to replace old existing burners
• Burner can easily be opened, and internal parts are directly accessible for inspection and cleaning
• Individually manufactured to customer specific requirements

This burner operates with liquid fuel and uses atomizing air or steam for low NOx combustion.

When the burner is started, the protective hatches open and lance, ignitor and swirler moves into operating position.

On burner shut down, the lance is purged, and then retracts to a heat protected stand-by position behind closed hatches.

*PETRO Bio* develops and supplies a variety of custom sizes and fuel choices. Please contact PETRO Bio Sales department for more information.
Burner sizes
Guideline values

For dimensions and information please contact PETRO Bio Sales department.

[Chart showing burner sizes PL50, PL40, PL25, PL15, PL10, PL5 with corresponding [MW] values and Turn down ratio 1:5]

Dimensions Example
The PL15 approx. 1.8 x 1.5 x 2.4 meters. Size refer to retracted lance.

This document is subject to change without notice.

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“We contribute globally and locally to a better environment and better climate for future generations”
Example Burner Layout

Burner Type PL10

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<table>
<thead>
<tr>
<th>Pos</th>
<th>Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Linear actuator (fuel lance)</td>
</tr>
<tr>
<td>10</td>
<td>Air cylinder (ignition lance)</td>
</tr>
<tr>
<td>9</td>
<td>Flame monitor</td>
</tr>
<tr>
<td>8</td>
<td>Sightglass</td>
</tr>
<tr>
<td>7</td>
<td>Locking lever</td>
</tr>
<tr>
<td>6</td>
<td>Air cylinder (burner pipe)</td>
</tr>
<tr>
<td>5</td>
<td>Atomizing media inlet</td>
</tr>
<tr>
<td>4</td>
<td>Hinge</td>
</tr>
<tr>
<td>3</td>
<td>Linear transmission</td>
</tr>
<tr>
<td>2</td>
<td>Fuel inlet</td>
</tr>
<tr>
<td>1</td>
<td>Actuator (furnace hatches)</td>
</tr>
</tbody>
</table>

The Burner and inlets can be rotated to suit the direction of boiler and media.