Soldering system with IR-light

- 50mm slim design
- contactless and accurate heat transfer
- silent air cooling
- with electronic power control
- compensation of surface effects
- high quality solder joints and high process reliability
- low operating costs and low investment
Halogen line emitter

With point and line emitters ATN offers a wide product range of optical systems for contactless heating. The light source issues a light beam with wavelengths of 500-1500 nm. The lamp is surrounded by an ellipsoid reflector, which focuses the emitted light at the soldering point precisely. The produced temperature depends on the power and the duration of the LightBeam and on surface, thermal capacity and heat conduction of the workpiece. The lamp is cooled with air. The airstream protects the optics against soldering steams and splashes.

The integrated microcontroller permits the control of all functions with only one input signal. The parameters can be modified by a menu LED display or by using the RS232-interface. The control unit also allows the computing of a program.

<table>
<thead>
<tr>
<th>emitter</th>
<th>BS230</th>
<th>BS360</th>
<th>BS500</th>
<th>BS790</th>
</tr>
</thead>
<tbody>
<tr>
<td>power (W):</td>
<td>500 W, 115 V</td>
<td>1.000 W, 230V</td>
<td>2.000 W, 400V</td>
<td>3.000 W, 400V</td>
</tr>
<tr>
<td>dimensions HxBxL (mm):</td>
<td>90 x 50 x 230</td>
<td>90 x 50 x 360</td>
<td>90 x 50 x 503</td>
<td>90 x 55 x 790</td>
</tr>
<tr>
<td>focus FB x FL (mm):</td>
<td>4 x 140</td>
<td>4 x 280</td>
<td>4 x 410</td>
<td>4 x 700</td>
</tr>
<tr>
<td>distance FA (mm):</td>
<td>16-20</td>
<td>16-20</td>
<td>16-20</td>
<td>16-20</td>
</tr>
<tr>
<td>durability lamp</td>
<td>according to operating mode</td>
<td>1000-5000h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**control unit**

- µ-controller: HC05
- sets of parameters (power/time): 8
- communication: 24V signal
- RS232-interface: optional
- dimensions (19"-case): 440x132x223 (3 HE x 84 TE)

**power units**

- LBS-P115
- LBS-P230-4
- LBS-P400

- power: 2.000 W, 4.000 W, 4.000 W
- voltage: 115 V, 230 V, 400 V

The emitter LightBeam spot is not only suitable for reflow soldering with solder paste but also for hardening, melting, shrinking, gluing and drying in the plastics and metal processing industry.