



# Burnovate Energy Systems Pvt. Ltd.

STEP Office, IIT Kharagpur  
Kharagpur; West Medinipur, West Bengal - 721302

## Counterflow Burner Details

Model	Nozzle dia (mm)	Purpose	Gap between nozzles (mm)	Gas velocity (m/s)	Fuel	Ignition system
<b>BSCFB10</b>	10	Lab scale	10 – 250 (adjustable)	0.5 - 5	<ul style="list-style-type: none"><li>• Ammonia</li><li>• Hydrogen</li><li>• LPG</li><li>• Natural Gas</li><li>• Syngas</li><li>• Pre-evaporated liquid fuels</li></ul>	<ul style="list-style-type: none"><li>• Direct</li><li>• Pilot</li></ul>
<b>BSCFB20</b>	20					
<b>BSCFB30</b>	30					
<b>BSCFB40</b>	40					
<b>BSCFB50</b>	50	Industry scale				
<b>BSCFB60</b>	60					
<b>BSCFB70</b>	70					
<b>BSCFB80</b>	80					
<b>BSCFB90</b>	90					
<b>BSCFB100</b>	100					

### **Emission standards:**

The burner is engineered to operate within modern low-emission requirements, ensuring reduced NO<sub>x</sub>, CO, and unburnt hydrocarbons through optimized air-fuel mixing and stable swirl combustion. Emission performance complies with applicable CPCB guidelines and aligns with international clean-air standards, depending on fuel quality and operating conditions.

**Note: For any custom range of operating conditions and nozzle sizes, please contact us**



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