The range of SNM burners has been widely used on numerous applications over a period of many years. The robust cast iron construction without any moving parts proves ideal for industrial furnaces, forges and melting pots where low maintenance and a reliable heat source is a priority.

The SNM range covers capacities from 30kW to 1.5MW in six burner sizes.

As standard all burners are fitted with castable refractory ignition tiles suitable for temperatures up to 1600°C, although for special applications higher temperature tiles can be supplied. Tiles can also be supplied with stainless steel shrouds which give support when the burners are being installed on applications with fibre walls.

**SNM – Features**

- Wide turndown
- Low maintenance
- High excess air capacity
- Clean burn on all commercial gases
- Direct spark or pilot ignition option
- Facility for mounting UV scanner
- Robust construction
- Square or round ignition tiles
- Suitable for pre-heated air up to 350°C
- Excellent flame stability

Air and gas is supplied independently to the burner, which is sealed into the furnace wall. The air and gas are thoroughly mixed in the burner head before combustion takes place within the burner tile. This design provides an extremely stable flame with high turndown capabilities.

It is possible to operate the burner with up to 500% excess air or up to 50% excess gas with good stability. The burner will operate successfully on most clean industrial gases.

The degree of control that can be achieved is largely dependent on the design of the air and gas control equipment supplying the burner. Appropriate sizing of the supply lines and valves is important in achieving good burner performance (refer to FNAC).

### Capacities and Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Air Pressure 17.5 mbar</th>
<th>35 mbar</th>
<th>52.5 mbar</th>
<th>70 mbar</th>
<th>87.5 mbar</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Air Nm³/h</td>
<td>Capacity kW</td>
<td>Air Nm³/h</td>
<td>Capacity kW</td>
<td>Air Nm³/h</td>
</tr>
<tr>
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<td>31</td>
<td>29</td>
<td>42</td>
<td>41</td>
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<td>702</td>
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<td>991</td>
<td>932</td>
<td>1214</td>
</tr>
</tbody>
</table>

Note: Minimum gas pressure at burner head = 5 mbar.
**Dimensions**

**Model No** | **Part No** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **J** | **K** | **L** | **M** | **N** | **P** | **Q** | **R** | **S** | **T** | **Weight kg**
SNM 80 | 3.05.037 | Rp 1 | Rc3/4 | 170 | 127 | 89 | 152 | 110 | 48 | 83 | 39 | 171 | 187 | 219 | M10 | 15° | 11 | 18 | 15° | 16.5
SNM 81 | 3.05.026 | Rp 1 | Rc3/4 | 170 | 127 | 102 | 152 | 110 | 48 | 83 | 44 | 171 | 187 | 219 | M10 | 15° | 11 | 30 | 30° | 15.5
SNM 82 | 3.04.028 | Rp1 1/2 | Re 1 | 186 | 127 | 110 | 190 | 117 | 48 | 89 | 65 | 210 | 229 | 260 | M10 | 13° | 12 | 30 | 30° | 21.5
SNM 83 | 3.03.024 | Rp 2 | Rc1 1/4 | 200 | 165 | 140 | 229 | 124 | 48 | 105 | 65 | 251 | 270 | 308 | M12 | 15° | 12 | 40 | 47° | 34
SNM 84 | 3.02.023 | Rp 3 | Rc 2 | 241 | 165 | 178 | 229 | 140 | 57 | 135 | 83 | 251 | 270 | 308 | M12 | 15° | 12 | 40 | 47° | 38
SNM 85 | 3.01.040 | Rp 4 | Rc2 1/2 | 370 | 287 | 241 | 375 | 225 | 60 | 194 | 94 | 406 | 438 | 502 | M16 | 15° | 16 | 39 | 56° | 150.0

**WARNING:** The data outlined is for information only and does not form part of any contract. Our policy is one of continuous improvement and we therefore reserve the right to modify specifications or dimensions without prior warning. Situations dangerous to personnel and property can develop from incorrect installation and operation of combustion equipment. Fives North American Combustion UK, Ltd urges compliance with International, National and Local Safety Standards and that installation is carried out by properly qualified personnel.