UEA D020 (FULL CONE NOZZLES)

AIR BLOW-OFF NOZZLES, ROUNDED JET

UEA D020 compressed air blowing nozzles produce a powerful air jet concentrated on a well-defined impact point. They are specially designed for deep and blind holes drying, producing lower noise and reducing pressure loss.

- **Thread size**: 1/4"
- **Thread specification**: BSP, NPT
- **Material**: V7 Aluminum, electroless nickel plated
- **B31**: AISI 316L Stainless steel
- **Typical applications**: Water removal from surfaces, Flocks and water blow off

Noise level diagram at 2 bar air pressure.

<table>
<thead>
<tr>
<th>Code</th>
<th>RF</th>
<th>inch</th>
<th>Air capacity (Nm³/hour)</th>
<th>H</th>
<th>mm</th>
<th>WS</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>UEA D020 yy</td>
<td>1/4&quot;</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>31</td>
<td>35</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td>20</td>
<td></td>
<td></td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

HOW TO MAKE UP THE NOZZLE CODE: EX. UEA D020 B31SG

UEA D020 B31 yy

MATERIAL
- B31 - AISI 316L Stainless steel
  LT: 400°C LP: 15 bar
- V7 - Aluminum, electroless nickel plated
  LT: 95°C LP: 15 bar

NOZZLE CODE
- **B31**: Thread code
- **SG**: BSP, Female
- **SN**: NPT, Female
- **MG**: BSP, Male
- **MN**: NPT, Male

THREAD CODES
- 1/4" BSPT, NPT

AIR BLOWING NOZZLES

Typical applications
- Water removal from surfaces
- Flocks and water blow off

Material
- E31 Polycetalic resin (POM)
- V7 Aluminum, electroless nickel plated
- B31 AISI 316L

CODE
<table>
<thead>
<tr>
<th>Code</th>
<th>RG</th>
<th>inch</th>
<th>Air capacity (Nm³/hour)</th>
<th>H</th>
<th>L</th>
<th>L1</th>
<th>L2</th>
<th>D</th>
<th>WS</th>
<th>mm</th>
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<td>33</td>
<td>86.5</td>
<td>51</td>
<td>40</td>
<td>9.0</td>
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</table>

HOW TO MAKE UP THE NOZZLE CODE: EX. UEA 0525 E31SG

UEA 0525 E31 yy

MATERIAL
- E31 - Polycetalic resin (POM)
- B31 - AISI 316L Stainless steel
  LT: 80°C LP: 5 bar
- V7 - Aluminum, electroless nickel plated
  LT: 150°C LP: 15 bar

NOZZLE TYPE
- **E31**: Thread code
- **SG**: BSP, Female
- **SN**: NPT, Female

These air blowers meet the requirements of American OSHA regulations.
HIGH EFFICIENCY AIR KNIVES

UBE air knives produce a high impact laminar jet of compressed air. They are fully adjustable and precisely engineered with a special design based on the Coanda effect, the natural tendency of a fluid jet to be attracted to a nearby surface. The air blade coming out through their side slot follows the radius profile and leaves the blower body with a 90° angle from the original direction. The negative pressure brings in a 20 times bigger wind volume allowing a high energy saving. They offer an excellent drying performance and eliminate static electricity.

- Length: 150 mm, 300 mm, 450 mm, 600 mm
- Typical applications: Water removal from surfaces
  - Flocks and water blow off
  - Water removal before stick and print
- Max working temperature LT 95°C
- Max working pressure LP 7 bar
- Thread specification BSP, NPT
- Thread size 1/4"
- Materials Body V7 Aluminium, electroless nickel plated
  - B3 AISI 316 Stainless steel
- Upper plate A9 Nickel plated steel
  - B3 AISI 316 Stainless steel

### Table: Air capacity (Nm³/min) and Dimensions

<table>
<thead>
<tr>
<th>Code</th>
<th>RF inch</th>
<th>Air capacity (Nm³/min)</th>
<th>Dimensions</th>
<th>W kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AI</td>
<td>AO</td>
<td>AI</td>
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<td>UEB 0150 xx yy</td>
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<tr>
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<td>1.03</td>
<td>18.7</td>
<td>1.40</td>
</tr>
</tbody>
</table>

The table shows the air capacity as a function of the air pressure whereas the below graphs show the noise level as a function of the front and side distances from the nozzle outlet at an operating pressure of 2 bar. The air flow leaving the nozzle orifice drags along ambient air, the air blade produced by the nozzle (AIR OUT) has a larger flow rate which is a multiple of the feed air flow (AIR IN).

**SAVE ENERGY AND INCREASE THE AMOUNT OF WIND**

The compressed air exits through the side slot following the radius profile and leaves the body with an angle of 90° from the original direction. The negative pressure brings in 20 times wind volume and saves energy consumption greatly.

Water removal before stick and print

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**How to make the nozzle code**

**Example:** UEB 0150 V7SG

- **Thread codes:** 5G - BSP, SN - NPT
- **Materials:**
  - V7 - Aluminium, electroless nickel plated
  - B3 - AISI 316 Stainless steel
- **Length:**
  - 0150 - 150 mm
  - 0300 - 300 mm
  - 0450 - 450 mm
  - 0600 - 600 mm
- **Nozzle type:**
  - UEB 0150
  - UEB 0300

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Noise level diagram at 2 bar air pressure:

- 50 dB
- 70 dB
- 80 dB