

(AIR BLOWING NOZZLES) **UEB**

HIGH EFFICIENCY AIR KNIVES

UEB 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 radiused 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

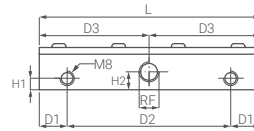
THREAD SIZE 1/4"

MATERIALS Body **V7** Aluminium, electroless nickel plated

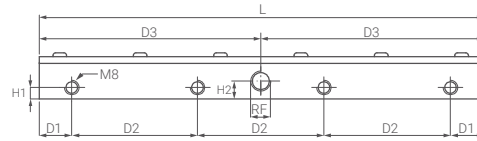
B3 AISI 316L Stainless Steel

Upper plate **A9** Nickel plated steel

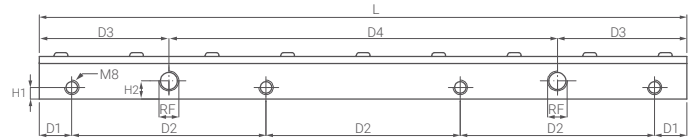
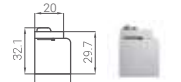
B3 AISI 316L Stainless Steel



UEB 0150



UEB 0300



UEB 0450 / UEB 0600

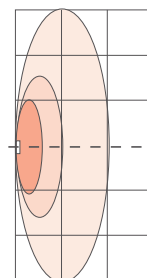
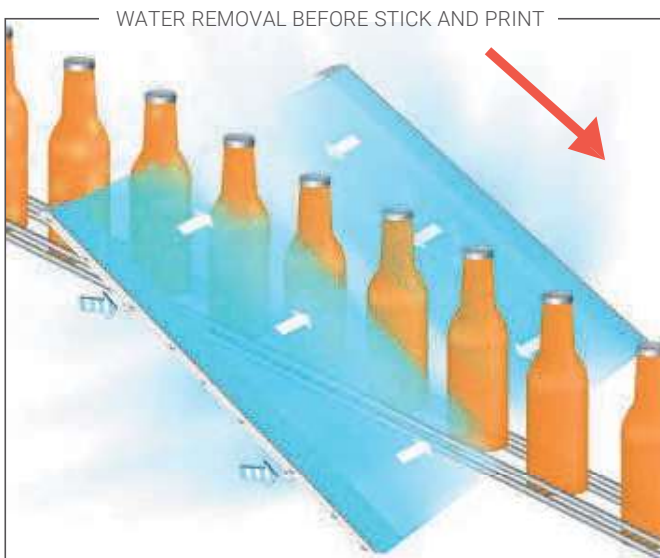
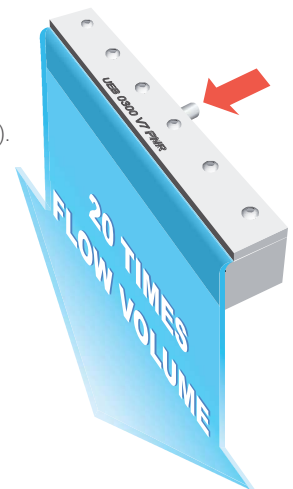
| CODE | RF inch | Air capacity (Nm ³ /min) | | | | | | | | | | Dimensions | | | | | | W kg | |
|-----------------------|------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------------|-------|-------|-------|-------|-------|---------|------|
| | | AE | AU | AE | AU | AE | AU | AE | AU | AE | AU | D1 mm | D2 mm | D3 mm | D4 mm | H1 mm | H2 mm | | L mm |
| UEB 0150 xx yy | 1/4" | 0.26 | 4.70 | 0.34 | 6.00 | 0.42 | 7.10 | 0.51 | 8.60 | 0.60 | 10.6 | 20.0 | 110 | 75 | - | 8 | 12.5 | 150 | 0.3 |
| UEB 0300 xx yy | | 0.52 | 9.40 | 0.68 | 12.0 | 0.84 | 14.2 | 1.02 | 17.2 | 1.20 | 21.2 | 22.5 | 85 | 150 | - | | | 300 | 0.7 |
| UEB 0450 xx yy | | 0.78 | 14.1 | 1.03 | 18.0 | 1.26 | 21.3 | 1.53 | 25.8 | 1.80 | 31.8 | 22.5 | 135 | 90 | 270 | | | 450 | 0.9 |
| UEB 0600 xx yy | | 1.03 | 18.7 | 1.40 | 24.0 | 1.68 | 28.4 | 2.04 | 34.4 | 2.40 | 42.4 | 22.5 | 185 | 150 | 300 | | | 600 | 1.4 |



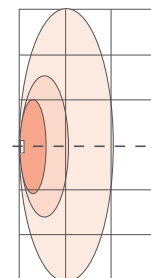
The table shows the air capacity as a function of the air pressure whereas the below graphs show the noise level as a function of the front and side distances from the nozzle outlet at an operating pressure of 2 bar. The air flow leaving the nozzle orifice drags along ambient air, the air blade produced 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 radiused 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.

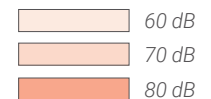


UEB 0150



UEB 0300

Noise level diagram at 2 bar air pressure



HOW TO MAKE UP THE NOZZLE CODE

Ex.: UEB 0150 V7SG

UEB 0150 xx yy

NOZZLE TYPE

MATERIAL

• **V7** - Aluminium, electroless nickel plated

• **B3** - AISI 316 Stainless Steel

LENGTH

• **0150** - 150 mm

• **0300** - 300 mm

• **0450** - 450 mm

• **0600** - 600 mm

THREAD CODES

• **SG** - BSP • **SN** - NPT