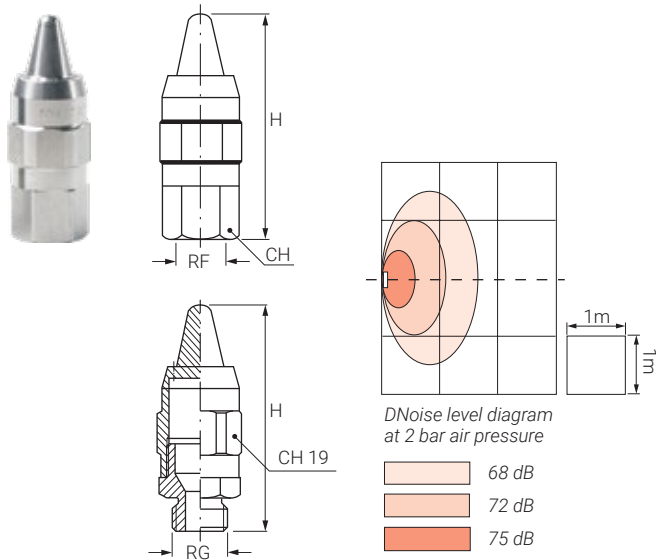


UEA D020 (FULL CONE NOZZLES)



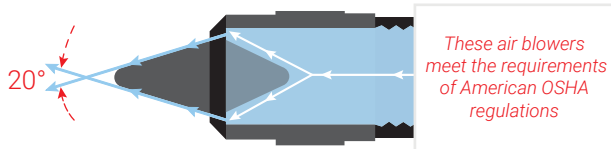
AIR BLOW-OFF NOZZLES, ROUND JET

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, produce lower noise and reduce pressure loss.

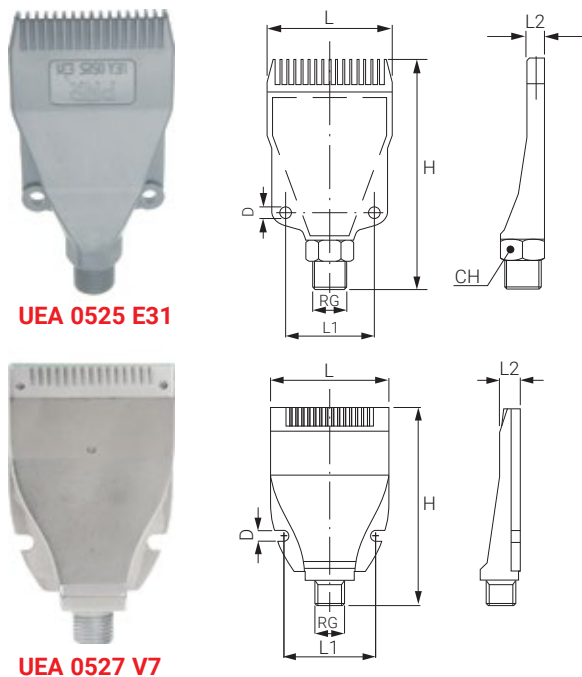
THREAD SIZE 1/4"
 THREAD SPECIFICATION BSP, NPT
 MATERIAL **V7** Aluminium, electroless nickel plated
B31 AISI 316L Stainless steel
 TYPICAL APPLICATIONS Water removal from surfaces
 Flocks and water blow off

CODE	RF inch	Air capacity at different pressure values (Nm ³ /hour) (bar)					H mm	WS mm
		2.0	3.0	4.0	5.0	6.0		
UEA D020 xx yy	1/4"	15	20	25	31	35	55	17

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



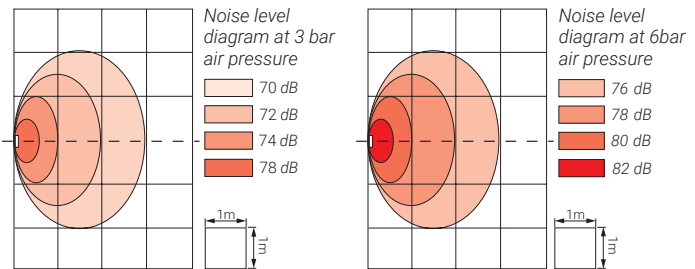
UEA 0525 / 0527 (AIR BLOWERS - FLAT FAN)



AIR BLOWERS, FLAT FAN

UEA series compressed air blowers are the best choice for operating environments requiring strong impact laminar sprays. The compressed air flow is blown through 16 orifices producing a strong impact jet, limited noise level and uniform spray. They are suitable to be installed on moving conveyors.

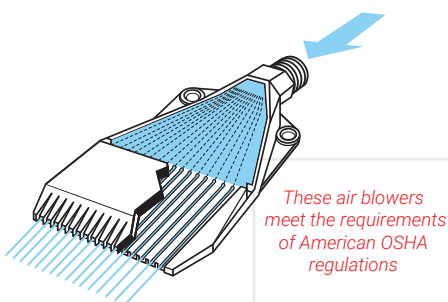
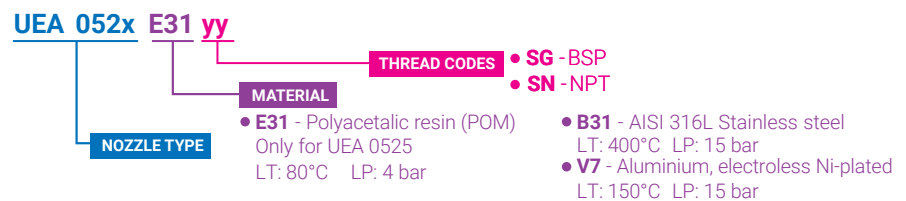
THREAD SIZE 1/4"
 THREAD SPECIFICATION BSPT, NPT
 MATERIAL **E31** Polyacetalic resin (POM)
V7 Aluminium, electroless nickel plated
B31 AISI 316L s.s.
 TYPICAL APPLICATIONS Water removal from surfaces
 Flocks and water blow off



NEW! Also available in AISI 316L

CODE	RG inch	Air capacity at different pressure values (Nm ³ /hour) (bar)					H mm	L mm	L1 mm	L2 mm	D mm	WS mm
		1.0	2.0	3.0	4.0	5.0						
UEA 0525 E31 yy	1/4"	10	17	22	28	---	90.0	47	25	6.5	5.0	16
UEA 0527 xx yy		10	17	22	28	33	86.5	51	41	6.5	5.1	17

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



(AIR BLOWING NOZZLES) **UEB**

HIGH EFFICIENCY AIR KNIVES

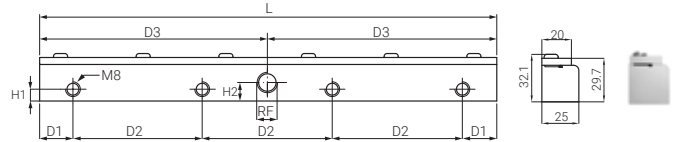
UEB air knives produce a high impact laminar jet of compressed air. They are fully adjustable and precisely engineered with a special design based on the Coanda effect, the natural tendency of a fluid jet to be attracted to a nearby surface. The air blade coming out through their side slot follows the 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

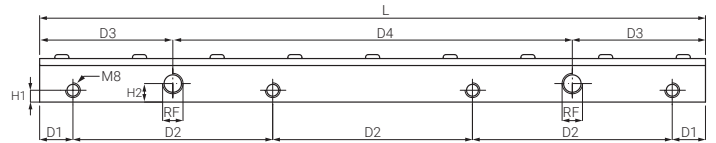
MAX WORKING TEMPERATURE LT 95°C
 MAX WORKING PRESSURE LP 7 bar
 THREAD SPECIFICATION BSP, NPT
 THREAD SIZE 1/4"
 MATERIALS Body **V7** Aluminium,electroless nickel plated
B3 AISI 316L Stainless Steel
 Upper plate **A9** Nickel plated steel
B3 AISI 316L Stainless Steel



UEB 0150



UEB 0300



UEB 0450 / UEB 0600

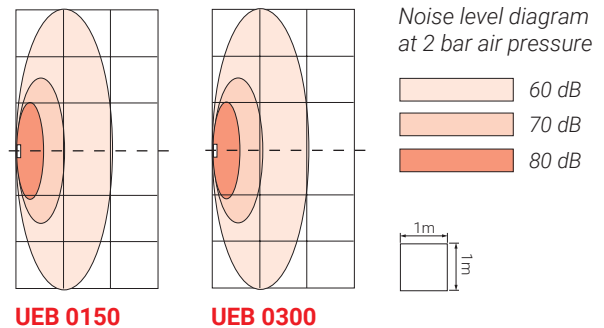
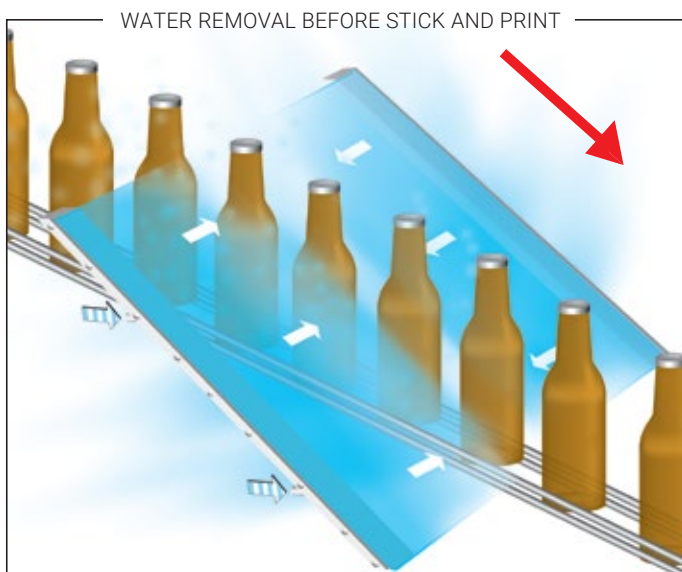
CODE	RF inch	Air capacity (Nm ³ /min)										Dimensions						W kg	
		AE	AU	AE	AU	AE	AU	AE	AU	AE	AU	D1 mm	D2 mm	D3 mm	D4 mm	H1 mm	H2 mm		L mm
UEB 0150 xx yy	1/4"	0.26	4.70	0.34	6.00	0.42	7.10	0.51	8.60	0.60	10.6	20.0	110	75	-	8	12.5	150	0.3
UEB 0300 xx yy		0.52	9.40	0.68	12.0	0.84	14.2	1.02	17.2	1.20	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.

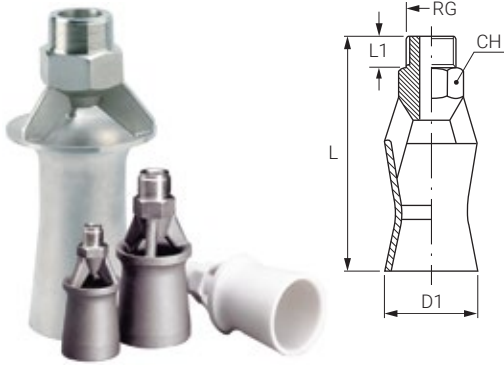


HOW TO MAKE UP THE NOZZLE CODE

Ex.: UEB 0150 V7SG



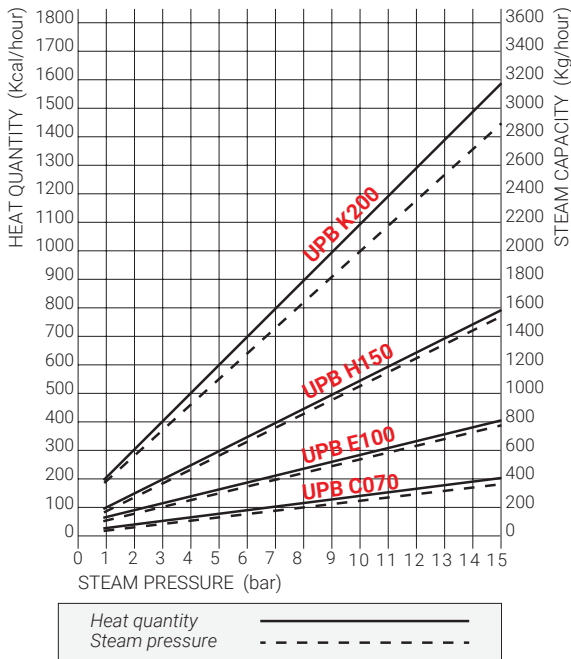
UPB (MIXING EDUCTORS)



MIXING EDUCTORS

UPB mixing eductors are energy saving products. Their robust bell-shaped body minimizes the risk of damage during maintenance operations and the Venturi design assures a high mixing efficiency. These eductors enable the circulation of large volumes of liquid and are ideal for continuous blending and stirring of liquids or solutions in tanks. The UPB eductors are installed at the bottom of a tank and pressurized to spray the solution. This flow creates a powerful negative pressure that allows to take in four times the liquid volume, mix it with a solution inside the nozzle and spray it back into the tank at a high speed. 1 HP pump and UPB mixing eductor can replace a 5 HP mixing eductor. UPB eductors are an efficient way to get the best performance from re-circulating process tanks and are cost-effective because they reduce the electrical costs.

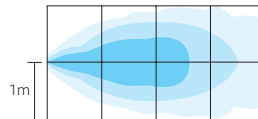
STEAM CONSUMPTION CHART



The table above shows the working condition of UPB C070 B31 eductor when set at 50 cm depth. We are at your disposal to realize UPB eductors on demand: PNR will give you the code and the dimensions.

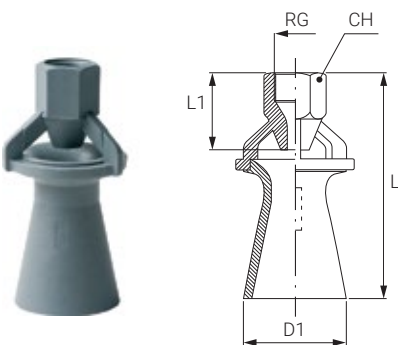
TYPICAL APPLICATIONS Liquid mixing in electroplating and automotive paint factories
 THREAD SPEC. BSPT (B, solo AISI), BSPP (G, PP & PVDF), NPT (N, all)
 MAX WORKING TEMPERATURE LT 80 °C (PP), 90 °C (PVDF)
 MATERIAL B31 AISI 316L Stainless Steel
 D6 PP, chemically bonded fiberglass
 D82 PVDF, moulded

CODE	RG inch	D mm	Flow rate at pressure (l/min) (bar)					D1 mm	L mm	L1 mm	WS mm
			1.0	2.0	3.0	4.0	5.0				
UPB B030 D82Sx	1/4"	3.0	5.9	8.2	9.9	11	13	38	78	---	---
UPB B030 D6Sx		3.0	5.9	8.2	9.9	11	13				
UPB B040 D6Sx		4.0	10	15	18	20	23				
UPB B050 D6Sx		5.0	16	22	27	31	35				
UPB C070 B31Sx	3/8"	7.0	34	48	59	68	76	45	98	15	22
UPB C070 D6Sx		7.0	34	48	59	68	76				
UPB C070 D82Sx		7.0	34	48	59	68	76				
UPB E100 B31Rx	1/2"	10.0	63	89	109	126	141	60	132	20	30
UPB E100 B31Sx	3/4"	10.0	63	89	109	126	141	60	132	20	30
UPB E100 D6Sx			63	89	109	126	141				
UPB H150 B31Sx	1 1/2"	15.0	155	215	265	305	340	110	225	30	60
UPB K200 B31Sx	2"	20.0	268	377	460	531	592	102	295	30	70



Under normal operating conditions, with feed pressure values ranging from 2 to 4 bars, eductors with a total capacity equal to 20% of the liquid volume to be stirred proved to be adequate for most industrial applications.

UPD (MIXING EDUCTORS)



MIXING EDUCTORS

UPD mixing eductors, whose design applies the "Coanda Effect", enable the circulation of large volumes of liquid. They are installed at the bottom of a tank and pressurized to spray the solution. This flow creates a powerful negative pressure that allows to take in four times the liquid volume, mix it with a solution inside the nozzle and spray it back into the tank at a high speed. 1 HP pump and UPB mixing eductor can replace a 5 HP mixing eductor. UPD eductors offer a high mixing efficiency and are cost effective because they save energy and are resistant to wear and corrosion. UPD eductors have the same technical features of the UPB models, but they come with a female thread connection.

THREAD SPECIFICATION BSP (G), NPT (N)
 MATERIAL B31 AISI 316L Stainless Steel
 D6 PP, PP, chemically bonded fiberglass
 MAX WORKING TEMPERATURE LT 80 °C (PP)
 TYPICAL APPLICATIONS Liquids mixing in electroplating, automotive painting, chemical plants.

CODE	RG inch	D mm	Flow rate at pressure (l/min) (bar)					D1 mm	L mm	L1 mm	WS mm
			1.0	2.0	3.0	4.0	5.0				
UPD E100 D6Sx	3/4"	10	63	89	109	126	141	75	147	30	34
UPD H150 D6Sx	1 1/2"	15	140	198	243	281	314	80	225	45	60
UPD H150 B31Sx	1 1/2"	15	155	215	265	305	340	80	239	83	60
UPD K200 B31Sx	2"	20	268	377	460	531	592	102	295	83	70

