



THE
SPRAY NOZZLE
 PEOPLE

EHPi

Electric nozzle
 Industrial version



PRECISION SPRAYING KEY APPLICATIONS

- ✓ Apply pMDI or LPF resin in the blender
- ✓ Apply slack wax, tallow wax or e-wax in the blender
- ✓ Add surface moisture before pressing boards
- ✓ Apply mixed release agent on mats, cauls, or press belts when using pMDI resins
- ✓ Mark nail lines on oriented strand board (OSB)

KEY BENEFITS

- ✓ Ensure precise application and reduce waste
- ✓ Integrate tonnage or line speed to maintain uniform coverage when variables change
- ✓ Reduce the use of expensive resins, waxes, or release agents by applying the exact volume required
- ✓ Apply the optimal amount of surface moisture to increase production by decreasing time in the press
- ✓ Confidently transition to running full pMDI products with non-stick press protection
- ✓ Eliminate compressed air from most pre-press and wax operations



Electric HydroPulse® - Industrial Design	
Liquid inlet connection	1/8", NPT or BSPP
Maximum liquid flow rate	3.8 LPS
Maximum rated pressure	20 bar
Thermal insulation class	F (155°C/311°F)
Power	10.4W @ 24VDC
Maximum cycle frequency	50 cycles/sec
Nozzle construction	Stainless steel wetted components, Viton® (FKM) seals
Interchangeable BJ, BJH and CW nozzle tip options	

Electric HydroPulse® nozzles for industrial applications (EHPi) ensure precise volumes of expensive ingredients and compounds are sprayed directly onto the processing target, with overspray waste virtually eliminated.

The EHPi spray nozzles can be paired with the FlexFlow™ Precision Spray Control system which provides ultimate timing control, achieving uniform coverage even if conveyor speed is adjusted.

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www.spray-nozzle.co.uk

The Go-to People for spray nozzle solutions

How they work

EHPi spray nozzles do not require a compressed air source and are capable of cycling on/off up to 50 cycles per second. These features afford the option of using high-frequency cycling known as Pulse Width Modulation (PWM) to vary the liquid spray flow rate at constant supply pressure with little change in spray performance by adjusting the duty cycle. When the spray cycles at a high enough frequency, coverage uniformity is maintained because the duration between pulses of spray is short enough to ensure there are no gaps in the spray coverage. For ultimate control, use with the FlexFlow™ control system.

EHPi BJ fan nozzle tips

Flow rate l/min*

Angles : 0°, 15°, 40°, 50°, 65°, 80°, 95°, 110°, Material : 303, 316 ss

Litres per minute @ BAR

Tip	0.3	0.5	1	2	5	10	15
**BJ0067	0.083	0.11	0.15	0.21	0.26	0.49	0.61
BJ01	0.12	0.16	0.22	0.31	0.38	0.72	0.87
BJ015	0.18	0.23	0.33	0.45	0.57	1.1	1.3
BJ02	0.23	0.3	0.42	0.61	0.76	1.4	1.7
BJ03	0.34	0.45	0.61	0.87	1.1	2	2.5
BJ04	0.42	0.57	0.79	1.1	1.4	2.5	3.1
BJ05	0.53	0.68	0.95	1.3	1.6	2.9	3.5
BJ06	0.61	0.76	1.1	1.5	1.8	3.2	3.8

** Only available in angles up to and including 65°.

EHPi BJH fan nozzle tips

Flow rate l/min*

Angles: 5° - 120°, Material : Tungsten Carbide Insert with 303 ss housing

Litres per minute @ BAR

Tip	2	3	5	10	15
BJH-0.18			0.038	0.057	0.068
BJH-0.28			0.098	0.14	0.17
BJH-0.38			0.18	0.25	0.31
BJH-0.45	0.16	0.19	0.25	0.35	0.42
BJH-0.53	0.21	0.26	0.33	0.45	0.57
BJH-0.66	0.33	0.42	0.53	0.72	0.91
BJH-0.78	0.45	0.57	0.72	1	1.2
BJH-0.89	0.57	0.72	0.91	1.3	1.6
BJH-0.99	0.72	0.87	1.1	1.6	2
BJH-1.14	0.95	1.1	1.5	2	2.5
BJH-1.29	1.1	1.4	1.8	2.5	3
BJH-1.45	1.4	1.7	2.1	2.9	3.5
BJH-1.60	1.5	1.9	2.3	3.2	3.8

* Maximum flows shown above. Flow rates can be turned down to 5% of listed value using PWM (Pulse Width Modulation).
Contact us for more details.

EHPi CW nozzle tips: full cone (F) and hollow cone (H)

Flow rate l/min*

Angles : 80° and 120°, Material : 303, 316 ss

Litres per minute @ BAR

Tip	0.3	0.5	1	2	3	5	10	15
CW-25F	0.31	0.38	0.53	0.76	0.91	1.2	1.7	
CW-50F	0.53	0.68	0.95	1.3	1.6	2	2.8	2
CW-75F	0.72	0.91	1.2	1.7	2	2.6	3.5	3.4
CW-100F	0.83	1	1.4	1.9	2.2	2.8	3.8	
CW-25H	0.31	0.38	0.53	0.76	0.91	1.2	1.7	2
CW-50H	0.53	0.68	0.95	1.3	1.6	2	2.8	3.4
CW-75H	0.72	0.91	1.2	1.7	2	2.6	3.5	
CW-100H	0.83	1	1.4	1.9	2.2	2.8	3.8	

* Maximum flows shown above. Flow rates can be turned down to 5% of listed value using PWM (Pulse Width Modulation).
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