



THE
SPRAY NOZZLE
 PEOPLE

EHP

Electric nozzle
 Hygienic version



PRECISION SPRAYING

KEY APPLICATIONS

- ✓ Application of antimicrobial agents for food safety
- ✓ Application of preservatives & mould inhibitors to help extend shelf life
- ✓ Application of egg wash
- ✓ Coat bottles to minimize scuff damage
- ✓ Apply water to balance moisture loss from the freezing process
- ✓ Apply coatings & release agents to pans, cookie sheets & conveyors to prevent sticking
- ✓ Apply viscous coatings like syrups, glazes & chocolate

KEY BENEFITS

- ✓ Control a wide range of flow rates
- ✓ Guarantee an even and uniform application rate
- ✓ Reduce consumption of expensive coatings
- ✓ Reduce overspray waste & improve product quality
- ✓ Exact target coatings secure a clean & safe environment
- ✓ Promote increased production
- ✓ Reduce maintenance & downtime
- ✓ Reliable spray dosing provides an accurate calorie count
- ✓ Apply flavorings, oil & butter to enhance the appearance & improve the taste of products



Electric HydroPulse® - Hygienic Design	
Liquid inlet connection	1/8", NPT or BSPP, or 1/2" tri-clamp
Maximum liquid flow rate	3.8 LPS
Maximum rated pressure	17 bar
Thermal insulation class	F (155°C/311°F)
Power	9.4W @24 VDC
Maximum cycle frequency	150 cycles/sec
Nozzle construction	Stainless steel wetted components, Food grade Viton® (FKM) seals compliant with CFR 21.1700.2600, hygienic design

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

The EHP hygienic 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.

CALL NOW : +44 (0) 1273 400092

www.spray-nozzle.co.uk

The Go-to People for spray nozzle solutions

How they work

EHP spray nozzles do not require a compressed air source and are capable of cycling on/off up to 150 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.

EHP 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°.

EHP 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.

EHP 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).
Contact us for more details.

Ask our technical sales engineers about additional products and services to optimise your spraying process.

Spray Calibration Solutions

Easy-to-use, fast measurement solutions to ensure accurate nozzle installation and maintenance, reduce water wastage and identify nozzle wear.



Spray Pattern & Droplet Distribution



Nozzle Flow Calibrators



Nozzle Cleaning Kit

Complete Spray Bars

Tailored nozzle selections and spray bar designs that integrate seamlessly with your new or existing setup.

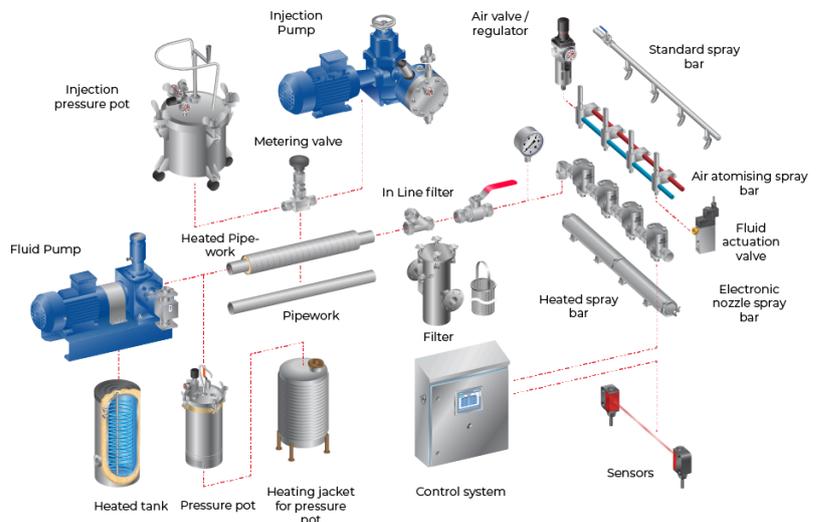
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



Complete Custom Spraying Systems

Complete spraying systems built around your goals and application.

- ✓ Tailored upstream components supplied individually or as part of complete system
- ✓ Custom pipework, pumps, tanks, sensors, valves, heating, control panels and more
- ✓ Seamless integration with existing processes
- ✓ Built to budget and ROI targets
- ✓ End-to-end support: design, install, maintain



THE GO-TO PEOPLE FOR SUCCESSFUL SPRAY ENGINEERING