



## CHUCAOTECH NANOBUZZLES STANDARD DATASHEET

	CT-3/4	CT-1 (COMING SOON)	CT-2	CT-4
<b>Operation parameters</b>				
Temperature	0 – 60°C (avoid freezing)			
Solids allowed	1.2mm		2.6mm	4.8mm
Gases allowed	Air, nitrogen, oxygen, CO2, ozone (special version)			
<b>Flow specifications</b>				
Water flow	3.2 – 5.4 m <sup>3</sup> /h 14 – 23 gpm	4.2 – 7.1 m <sup>3</sup> /h 19 – 31 gpm	16 – 26 m <sup>3</sup> /h 69 – 103 gpm	55 – 93 m <sup>3</sup> /h 242 – 409 gpm
Pressure drop	0.5 – 1.5 bar (no gas)			
Maximum water pressure at inlet	Up to 4bar (ask about customization options)			
Gas pressure required	0.5bar above water pressure required. 100psi (7bar) maximum.			
Maximum recommended gas input (5%v/v)	2.7 – 4.5 NL/min 5.6 – 9.5 Ncfh	3.5 – 5.9 NL/min 7.4 – 13 Ncfh	13 – 22 NL/min 28 – 45 Ncfh	46 – 78 NL/min 97 – 164 Ncfh
Gas quality	No oil or particles			
<b>Injector tube construction materials</b> (ask about customization options)				
Fresh water version	HMWPE, SS304, Nitrile, Titanium			
Sea water version	HMWPE, SS316, Nitrile, Titanium			
Ozone version	HMWPE, SS316, Silicone, Titanium			
Mining version	Duplex2205, Silicone, Titanium			
<b>Connections</b>				
Water inlet/outlet	3/4in FBSP or FNPT	1in FBSP or FNPT	2in FBSP or FNPT	4in/110mm flange
Gas inlet	1/8in FBSP or FNPT	1/4in FBSP or FNPT	1/4in FBSP or FNPT	1/4in FBSP or FNPT
<b>Approx. Dimensions<sup>(3)</sup></b>				
Injector diameter and length	35mm OD x 200mm L		75mm OD x 352mm L	110mm OD x 499mm L (does not include stub-ends and flanges)
Injector Weight (kg)	0.2kg (HMWPE & SS)		1.3kg (HMWPE & SS)	3.1kg (HMWPE, does not include stub-ends and flange)



## CHUCAOTECH NANOBUZZLES STANDARD DATASHEET

	CT-6	CT-8 (COMING SOON)	CT-10 (COMING SOON)	CT-12
<b>Operation parameters</b>				
Temperature	0 – 60°C (avoid freezing)			
Solids allowed	6.5mm			14mm
Gases allowed	Air, nitrogen, oxygen, CO2, ozone (special version)			
<b>Flow specifications</b>				
Water flow	96 – 162 m <sup>3</sup> /h 422 – 713 gpm	162 – 273 m <sup>3</sup> /h 713 – 1,201 gpm	288 – 486 m <sup>3</sup> /h 1,267 – 2,138 gpm	480 – 810 m <sup>3</sup> /h 2,112 – 3,564 gpm
Pressure drop	0.5 – 1.5 bar (no gas)			
Maximum water pressure at inlet.	Up to 4bar (ask about customization options)			
Gas pressure required	0.5bar above water pressure required. 100psi (7bar) maximum.			
Maximum recommended gas input (5%v/v)	80 – 135 NL/min 169 – 286 Ncfh	135 – 228 NL/min 286 – 482 Ncfh	240 – 405 NL/min 508 – 858 Ncfh	400 – 675 NL/min 847 – 1,429 Ncfh
Gas quality	No oil or particles			
<b>Injector tube construction materials</b> (ask about customization options)				
Fresh water version	HMWPE, SS304, Nitrile, Titanium			
Sea water version	HMWPE, SS316, Nitrile, Titanium			
Ozone version	(available up to CT-6) HMWPE, SS316, Silicone, Titanium			
Mining version	HMWPE/HDPE, Duplex2205, Silicone, Titanium			
<b>Connections</b>				
Water inlet/outlet	6in/160mm flange	8in/200mm flange	10in/250mm flange	12in/315mm flange
Gas inlet	1/2in FBSP or FNPT	1/2in FBSP or FNPT	1/2in FBSP or FNPT	3/4in FBSP or FNPT
<b>Approx. Dimensions<sup>(3)</sup></b>				
Injector diameter and length	160mm OD x 712mm L	200mm OD	250mm OD	315mm OD x 1083mm L (does not include stub-ends and flanges)
Injector Weight (kg)	8.2kg (HMWPE, does not include stub-ends and flange)			44kg (HDPE & HMWPE, does not include stub-ends and flange)