

QBD QuickBubble™ Diffuser Series Device

QBD QuickBubble™ Diffuser is a patent-pending all fluoropolymer CO₂/CDA/N₂ bubble diffuser for use with semiconductor wet benches.

Wide ranging applications including addition of CO₂ to make DICO₂ water to reduce arching defects, bubbling of chemical to improve mixing, bubbling of chemical to lower temperature from elevated temperature to improve tool utilization.

Features & benefits:

- ☑ Uniform nozzles positions and densities for controlled and uniform bubbling
- ☑ All Teflon parts for wide compatibilities and ultra-high-purity applications (optional pre-conditioning is subjected to additional fees)
- ☑ All fluoropolymer parts able to withstand up to 150C continuous working conditions.
- ☑ Sintered PTFE support structure to ensure no reverse flow of chemical into gas supply line at all times, when the wet bench is in use, or during chemical change-out.
- ☑ Mass production proven for peace of mind implementation
- ☑ Excellent ROI - Immediate results without need for expensive equipment investment.
- ☑ NPTF or Flare connection for easy retrofit and installation with reduced equipment down time.

Compatibility and purity

QuickBubble™ Diffuser QBD has broad chemical compatibility with various wet chemistries and solvent.

Quality manufacturing

High purity device manufactured in a clean room environment.

100% functional tested to provide assured quality and performance.

Performance Specifications

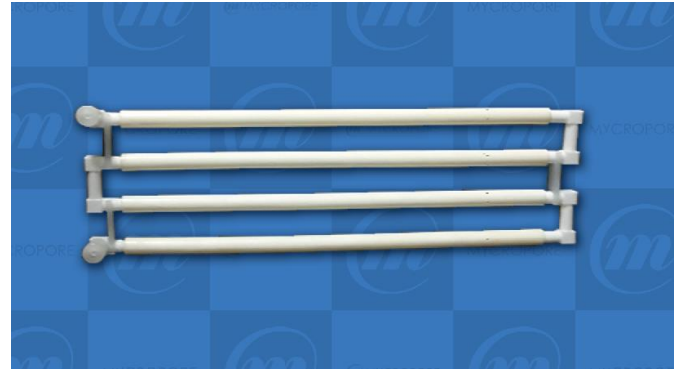
Bubbling holes: 1mm diameter

Bubbling holes interval: 10mm

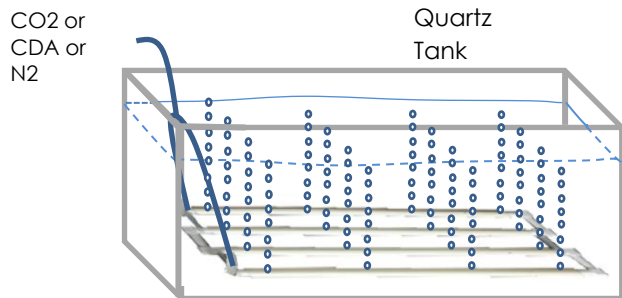
Sintered PTFE support: ~0.2 micron

Maximum operating temperature

150°C (316°F) at the above conditions



Typical installation



Product Specifications

Materials of construction

Body:	Sintered PTFE
Film:	PVDF
Fittings:	PFA, PTFE, PVDF
Tubing:	PFA, if any

Applications:

- ☑ Diffuse CO₂ into ultra-pure water to make DICO₂ water for reduction of arching defects
- ☑ Bubbling of chemical to improve mixing,
- ☑ Bubbling of chemical to lower temperature from elevated temperature to improve time to cool bath, improve tool utilization.

External Certification:



Table 1: Ordering Information

Product Name	Filter Medium	Pore Size	Size Code	Fitting Options	Length Code	Optional Code
e.g. QBD QuickBubble™ Diffuser PTFE Filter w PVDF, 0.2um, D15, NPTF 1/8" INLET, Diffuser length 300mm						
QBD	FV	G	D15	NF2	300	
QBD = QuickBubble™ Diffuser	F = Sintered PTFE Filter with PVDF Film	G = 0.2um	D15=15mm Height/Dia Tube	NF2 = Flare 1/4" Elbow (Refer to Fig 2) FL4X30 = Flare 1/4" fitting with 30mm PFA tube (Refer to Fig. 3)	300 350 430 470	FB2* = Custom Inlet FB8* = Custom Inlet

* Ask Tech Support for more information

Dimensions (Refers to Figure 1):

QBD Length Code	W, Width	L1 (Diffuser)	L2 (incl adaptor)
300	126mm/7.96"	300mm/11.81"	350mm/13.78"
350	126mm/7.96"	350mm/13.78"	400mm/15.75"
430	126mm/7.96"	430mm/16.93"	480mm/18.90"
470	126mm/7.96"	470mm/18.50"	520mm/20.47"

Width tolerance +/- 2mm. Length tolerance +/- 3mm. Customizable. Request tech support.

Figure 1: Dimensions

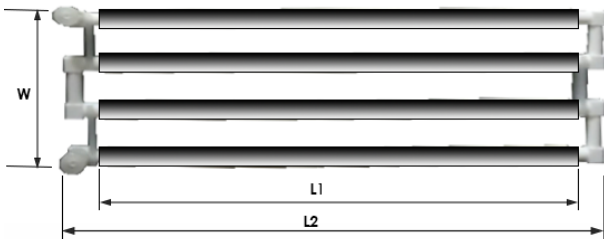


Figure 2: Default NF2 Inlet fitting

Flare 1/4" Fitting

CO2, CDA or N2 Supply

Flare 1/4" Male



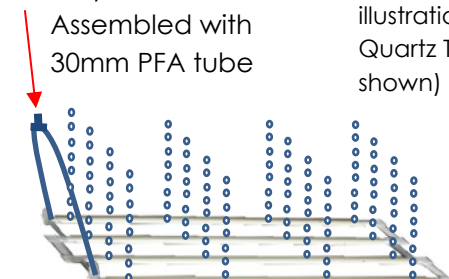
Figure 3: FL4X30 connection

Flare 1/4" fitting, with 30mm PFA tube connect to default NF2 fitting

CO2, CDA or N2 Supply

Flare 1/4" male
Assembled with 30mm PFA tube

Bubbles for illustration only. Quartz Tank (not shown)



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and speak with our
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