

# **POINT FOUR** MICROBUBBLE OXYGEN DIFFUSERS

MAXIMUM VERSATILITY FOR INCREASING YOUR DISSOLVED OXYGEN

*BUY THE BEST – PURE AND SIMPLE*

Point Four MICROBUBBLE DIFFUSERS are one of the most efficient diffusers available, allowing you to increase yield while controlling the cost of expensive gases. Made from premium materials and subject to rigorous testing, MBD diffusers provide the kind of performance and reliability our reputation is built on.

## A SIMPLE DESIGN

Point Four diffusers use a specially developed, ultra fine pore ceramic plate that produces a cloud of extremely fine bubbles of approximately 100-500 microns; far superior to airstones, porous hose or membrane type designs. The flat plate design ensures uniform bubbles across the entire surface and minimizes bubble coalescence to achieve an absorption rate in excess of 80%, depending on depth and flow rate. (see "Absorption Efficiency" on reverse)



## FEATURES AND BENEFITS

### One of the most efficient diffusers available

– less gas and fewer diffusers are required to achieve the same results.

### Robust construction

– ceramic plates are set in a rigid aluminum base with solid brass connection fittings.

### Easy to install and use

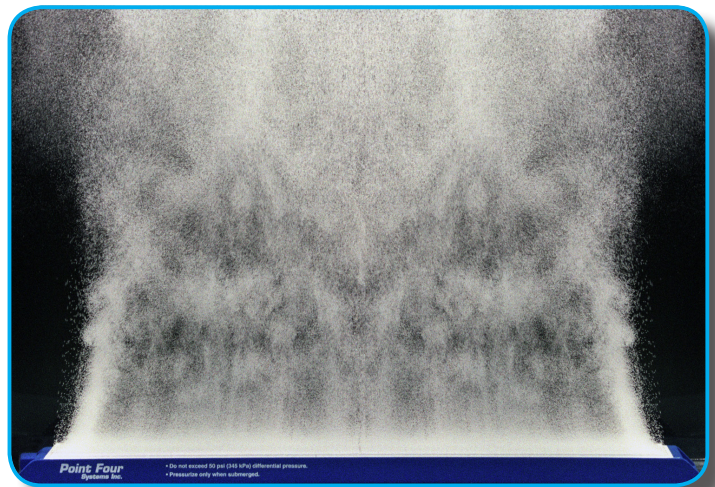
– simple to connect for trouble-free operation.

### Comprehensive customer support

– take advantage of our considerable engineering expertise and thorough after-sales support.

### Full 2 year warranty

– covering defective materials and workmanship.



**Point Four**  
Systems Inc.

MAKING YOUR WATER BETTER!

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# Oxygenation and Water Management Specialists - Making your water better!

## APPLICATIONS

Aquaculture and commercial fish farming

- Increase production or reduce overhead
- Emergency back-up

Live fish transportation

- Reduce fish stress and mortalities
- Increase fish density

Fish handling and processing

- anaesthetizing with CO<sub>2</sub>

Industrial waste water treatment

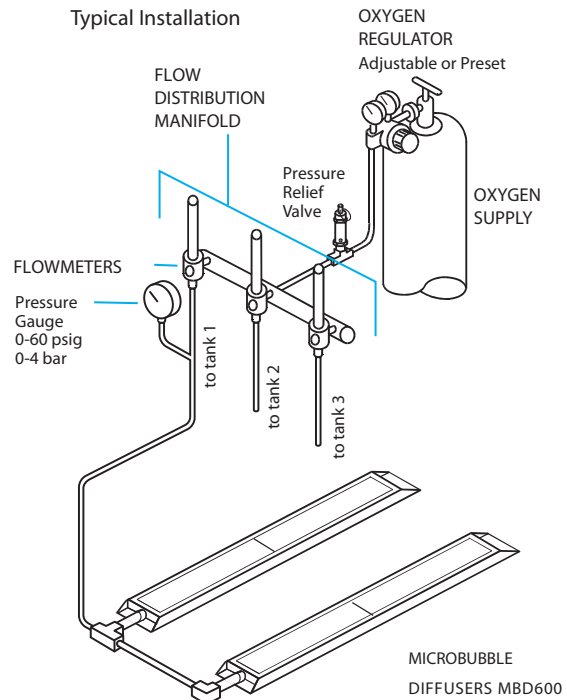
- Supplemental oxygen and pH control using carbon dioxide

Environmental

- Lake Aeration

Educational

- Universities and Research Labs

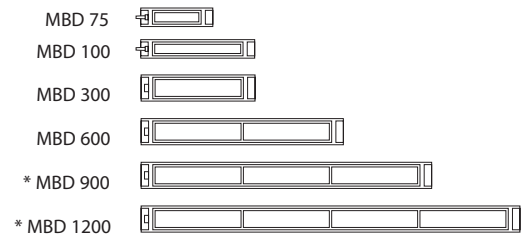


## OPTIONS AND ACCESSORIES

Point Four supplies a range of diffuser sizes and model options including a special order anodized finish, a 'double-ender' design for 'daisy-chain' configuration, and pre-assembled frame-mounted systems. We also carry a comprehensive stock of connection fittings, as well as hose, pressure regulators, flow meters, solenoid valves and flow control manifolds.

## ABSORPTION EFFICIENCY

Largely depends on submerged depth (or operating pressure), typically 40% to 50% at 1m depth; can be as high as 80% or even 100% at depths of 6m or more (also depends on flow rate).



## SPECIFICATIONS

Model	MBD 600	MBD 300	MBD 100	MBD 75	* MBD 1200	* MBD 900
Diffusing area	24 1/4" x 2 3/8" (62cm x 6cm)	12 1/8" x 2 3/8" (31cm x 6cm)	12 1/8" x 1 1/8" (31cm x 3cm)	6" x 1 1/8" (15cm x 3cm)	48 1/2" x 2 3/8" (124cm x 6cm)	36 3/8" x 2 3/8" (93cm x 6cm)
Overall size	27 1/2" x 3 1/4" (70cm x 8.3cm)	15 1/4" x 3 1/4" (39cm x 8.3cm)	14 1/2" x 1 3/4" (37cm x 4.5cm)	8 1/2" x 1 3/4" (22cm x 4.5cm)	52" x 3 1/4" (132 x 8.3cm)	39 3/4" x 3 1/4" (102cm x 8.3cm)
Weight	5lbs (2.3kg)	2.8lbs (1.3kg)	1.2lbs (535g)	0.6lbs (310g)	9.5lbs (4.3kg)	7.3lbs (3.3kg)
Recommended operating range	up to 6 LPM (12.7 SCFH)	up to 3 LPM (6.5 SCFH)	up to 1.5 LPM (3.2 SCFH)	up to 0.75 LPM (1.6 SCFH)	up to 12 LPM (26 SCFH)	up to 9 LPM (19.5 SCFH)
Maximum flow rate @ 50 psi (3.5 bar)	18 LPM (38 SCFH)	9 LPM (19 SCFH)	4.5 LPM (9.5 SCFH)	2.2 LPM (4.7 SCFH)	36 LPM (78 SCFH)	27 LPM (58 SCFH)
Gas inlet connection	1/4" NPT Female	1/4" NPT Female	1/4" Hose Barb.	1/4" Hose Barb.	1/4" NPT Female	1/4" NPT Female
Bubbling Pressure	25 to 35 psi. (1.7 to 2.4 bar)					

\* Custom sizes available by special order.



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Point Four specializes in the design and supply of systems for measuring and controlling levels of oxygen and other gases in water. Established in 1988, Point Four's success is built on our willingness to "go that extra mile"; helping our customers with engineering expertise and the very best after-sales support.