

## FRESH BY OXYCONES

Our oxygen cones are designed to optimise the saturation of gases in water. Up to as high as 100% gas transfer efficiency is possible. Water and oxygen enter at the top of the cone at relatively high velocity. The stream of water pushes the oxygen bubbles down and as the cone widens, the velocity reduces and bubbles remain until they completely dissolve. FBD Oxycones are available in 4 sizes and are constructed using high quality fibreglass. They are designed to be operated at pressures up to 20psi.

| CODE | REC FLOW RATE RANGE | HEIGHT/WIDTH   | FLANGED INLET/OUTLET |
|------|---------------------|----------------|----------------------|
| O2O1 | 275-490 LPM         | 1,750mm/600mm  | 80mm                 |
| O2O2 | 565-980 LPM         | 2,200mm/850mm  | 100mm                |
| O2O3 | 1,000-1,850 LPM     | 2,800mm/1050mm | 150mm                |
| O2O4 | 1,325-2,270LPM      | 3,300mm/1250mm | 150mm                |

Sizing Guide (Oxygen capacity at max. flow rates at various temperatures and pressure):

| Model | Pressure<br><i>psi</i> | Temp 10oC<br>O2 Capacity<br><i>kg/hr</i> | Temp 10oC<br>D.O <i>ppm</i> | Temp 20oC<br>O2 Capacity<br><i>kg/hr</i> | Temp 20oC<br>D.O <i>ppm</i> | Temp 30oC<br>O2 Capacity<br><i>kg/hr</i> | Temp 30oC<br>D.O <i>ppm</i> |
|-------|------------------------|------------------------------------------|-----------------------------|------------------------------------------|-----------------------------|------------------------------------------|-----------------------------|
| O2O1  | 10                     | 1.5                                      | 60                          | 1.2                                      | 50                          | 0.9                                      | 40                          |
|       | 15                     | 1.7                                      | 70                          | 1.4                                      | 55                          | 1.1                                      | 45                          |
|       | 20                     | 2.0                                      | 80                          | 1.6                                      | 65                          | 1.3                                      | 50                          |
| O2O2  | 10                     | 3.0                                      | 60                          | 2.4                                      | 50                          | 1.9                                      | 40                          |
|       | 15                     | 3.6                                      | 70                          | 2.8                                      | 55                          | 2.3                                      | 45                          |
|       | 20                     | 4.1                                      | 80                          | 3.3                                      | 65                          | 2.6                                      | 50                          |
| O2O3  | 10                     | 5.6                                      | 60                          | 4.5                                      | 50                          | 3.6                                      | 40                          |
|       | 15                     | 6.6                                      | 70                          | 5.3                                      | 55                          | 4.2                                      | 45                          |
|       | 20                     | 7.7                                      | 80                          | 6.1                                      | 65                          | 4.9                                      | 50                          |
| O2O4  | 10                     | 7.0                                      | 60                          | 5.6                                      | 50                          | 4.5                                      | 40                          |
|       | 15                     | 8.3                                      | 70                          | 6.6                                      | 55                          | 5.3                                      | 45                          |
|       | 20                     | 9.6                                      | 80                          | 7.7                                      | 60                          | 6.1                                      | 50                          |

Multiply kg/hr DO by 1,500 to estimate the kgs of fish that can be supported at 3% body weight feed per day (assumes oxygen/feed ratio of 0.8)

### Benefits:

- High saturation efficiency
- Robust construction
- Easy installation
- Ozone compatible

