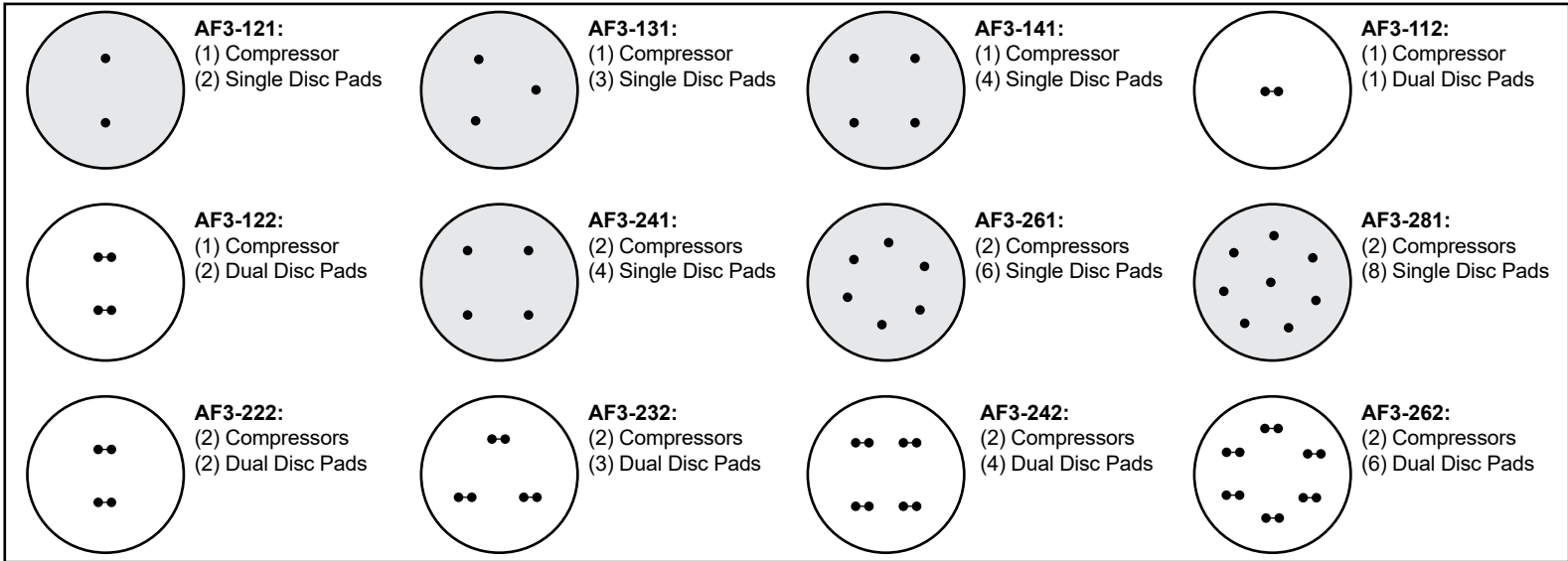


# Air Flo 3 System Selection & Sizing

All systems are available in 115V, 230V (60Hz) or 220V (50Hz) single phase; and include 1/2HP compressor(s) in a stainless steel enclosure with choice between single or dual domed manifolds. Tubing (weighted & unweighted,) is ordered separately in 100ft (30m) increments. Technical specifications can be found online at [www.otterbine.com](http://www.otterbine.com).

## AIR FLO 3 | PACKAGE ILLUSTRATION



Single diffuser manifolds are as efficient as dual manifolds in oxygen transfer. Dual diffuser manifolds should only be needed if they are specified.

## SYSTEM SELECTION/SIZING GUIDE

|                 |                    | Surface Area Affected             |                                 |                                   |                                   |                                   |                                    |
|-----------------|--------------------|-----------------------------------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
|                 |                    | 1/2 Acre<br>(2023m <sup>2</sup> ) | 1 Acre<br>(4047m <sup>2</sup> ) | 3 Acres<br>(12140m <sup>2</sup> ) | 5 Acres<br>(20234m <sup>2</sup> ) | 8 Acres<br>(32376m <sup>2</sup> ) | 12 Acres<br>(48562m <sup>2</sup> ) |
| Operating Depth | 4-7ft<br>(1-2m)    | AF3 System<br>121, 131, or 141    | AF3 System<br>131, 141, or 261  | AF3 System<br>261 or 281          | Call for Custom System            |                                   |                                    |
|                 | 8-14ft<br>(2-4m)   | AF3 System<br>121, 131, or 141    | AF3 System<br>141 or 261        |                                   | Call for Custom System            |                                   |                                    |
|                 | 8-18ft<br>(2-5m)   | AF3 System<br>121 or 131          |                                 |                                   | AF3 System<br>281                 | Call for Custom System            |                                    |
|                 | 14-19ft<br>(4-6m)  | AF3 System<br>241                 |                                 |                                   |                                   | AF3 System<br>281                 |                                    |
|                 | 14-26ft<br>(4-8m)  | AF3 System<br>241                 |                                 |                                   | Call for Custom System            |                                   |                                    |
|                 | 19-40ft<br>(6-12m) | AF3 System<br>241 or 261          |                                 |                                   | AF3 System<br>281                 | Call for Custom System            |                                    |

Otterbine recommends a 2 compressor system when 6 or more diffuser manifolds are required, or operating depths exceed 14ft (4m).

## MAX TUBING RUNS FOR AIR FLO 3 (Combined Totals)

| System (# of Compressors) |    | Water Depth |            |             |             |             |             |             |             |             |
|---------------------------|----|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                           |    | 6ft (1.8m)  | 9ft (2.7m) | 12ft (3.6m) | 15ft (4.6m) | 18ft (5.5m) | 21ft (6.4m) | 24ft (7.3m) | 27ft (8.2m) | 30ft (9.1m) |
| One (1) Compressor        | ft | 2,750       | 2,600      | 2,500       | 2,350       | 2,225       | 2,100       | 1,950       | 1,850       | 1,700       |
|                           | m  | 838         | 793        | 762         | 716         | 678         | 640         | 594         | 564         | 518         |
| Two (2) Compressors       | ft | 5,500       | 5,200      | 5,000       | 4,700       | 4,450       | 4,200       | 3,900       | 3,700       | 3,400       |
|                           | m  | 1676        | 1585       | 1524        | 1433        | 1356        | 1280        | 1189        | 1128        | 1036        |

Maximum runs are cumulative totals of all the tubing runs to each diffuser. Elevation and other contributing factors may impact total distance.