



**Vortex Ventures, Inc.**

100 PORTWEST DRIVE, SUITE 100 • HOUSTON, TEXAS 77024

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**LOBESTAR® MIXING EDUCTOR & LOBESTAR® SHEAR/MIXER  
ALL 3" (75mm) MODELS  
PERFORMANCE CHART**

| HEAD         |                  | VELOCITY OF DISCHARGE | NOZZLE ORIFICE SIZES*        |                              |                              |                              |
|--------------|------------------|-----------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|              |                  |                       | 3/4" (19mm)                  | 7/8" (22mm)                  | 1" (25mm)                    | 1 1/4" (31mm)                |
| PSI<br>(BAR) | FEET<br>(METERS) | FT/ SEC<br>(M/SEC)    | GPM<br>(M <sup>3</sup> /MIN) | GPM<br>(M <sup>3</sup> /MIN) | GPM<br>(M <sup>3</sup> /MIN) | GPM<br>(M <sup>3</sup> /MIN) |
| 30<br>(2.0)  | 69<br>(21)       | 67<br>(20)            | 64<br>(0.24)                 | 92<br>(0.34)                 | 125<br>(0.47)                | 164<br>(0.61)                |
| 40<br>(2.76) | 92<br>(28)       | 77<br>(23)            | 73<br>(0.27)                 | 105<br>(0.39)                | 145<br>(0.54)                | 189<br>(0.71)                |
| 50<br>(3.5)  | 115<br>(35)      | 86<br>(26)            | 82<br>(0.31)                 | 119<br>(0.45)                | 162<br>(0.61)                | 211<br>(0.79)                |
| 60<br>(4.14) | 138<br>(42)      | 94<br>(29)            | 90<br>(0.34)                 | 130<br>(0.49)                | 177<br>(0.66)                | 231<br>(0.87)                |
| 70<br>(4.8)  | 161<br>(49)      | 102<br>(31)           | 98<br>(0.37)                 | 141<br>(0.53)                | 191<br>(0.72)                | 250<br>(0.94)                |
| 80<br>(5.5)  | 184<br>(56)      | 109<br>(33)           | 104<br>(0.39)                | 150<br>(0.56)                | 205<br>(0.77)                | 267<br>(1.0)                 |
| 90<br>(6.2)  | 207<br>(65)      | 116<br>(35)           | 111<br>(0.42)                | 160<br>(0.60)                | 217<br>(0.81)                | 284<br>(1.1)                 |
| 100<br>(6.9) | 230<br>(70)      | 122<br>(37)           | 117<br>(0.44)                | 168<br>(0.63)                | 230<br>(0.86)                | 300<br>(1.12)                |

\*LOBESTAR® NOZZLE ORIFICE IS EQUIVALENT TO THE AREA OF A CIRCLE.

THE LOBESTAR® EDUCTOR PERFORMS BEST WITH A 1.5' (0.5 METERS) STRAIGHT PIPE EXTENSION INSTALLED ON THE DISCHARGE END OF THE EDUCTOR.