



Vortex Ventures, Inc.

3433 N. Sam Houston Pkwy W., Ste. 406, Houston, Texas
 Phone: 713-869-2593; Fax: 713-869-2596

**LOBESTAR® MIXING EDUCTOR & LOBESTAR® SHEAR/MIXER
 ALL 1" (25mm) MODELS
PERFORMANCE CHART**

HEAD		VELOCITY OF DISCHARGE	NOZZLE ORIFICE SIZES*		
			3/16" (5mm)	1/4" (6mm)	3/8" (9mm)
PSI (BAR)	FEET (METERS)	FT/ SEC (M/SEC)	GPM lpm	GPM lpm	GPM lpm
30 (2.0)	69 (21)	67 (20)	6.0 (22.8)	10.2 (39.0)	23.0 (87.0)
40 (2.76)	92 (28)	77 (23)	6.7 (25.0)	11.5 (44.0)	27.0 (103)
50 (3.5)	115 (35)	86 (26)	7.4 (28.0)	13.2 (50.0)	30.0 (114)
60 (4.14)	138 (42)	94 (29)	8.1 (31.0)	14.5 (55.0)	32.5 (124)
70 (4.8)	161 (49)	102 (31)	8.8 (33.5)	15.7 (60.0)	35.2 (134)
80 (5.5)	184 (56)	109 (33)	9.5 (36.0)	16.5 (63.0)	37.6 (143)
90 (6.2)	207 (65)	116 (35)	10.0 (38.5)	17.7 (67.0)	40.0 (152)
100 (6.9)	230 (70)	122 (37)	10.5 (40.0)	18.5 (70.0)	42.0 (160)

*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.



**LOBESTAR® MIXING EDUCTOR & LOBESTAR® SHEAR/MIXER
ALL 1.5" (37mm) MODELS
PERFORMANCE CHART**

HEAD		VELOCITY OF DISCHARGE	NOZZLE ORIFICE SIZES*		
			3/8" (9mm)	1/2" (13mm)	5/8" (17mm)
PSI (BAR)	FEET (METERS)	FT/ SEC (M/SEC)	GPM lpm	GPM lpm	GPM lpm
30 (2.0)	69 (21)	67 (20)	23.0 (87.0)	30.0 (114)	37 (141)
40 (2.76)	92 (28)	77 (23)	27.0 (103)	41.0 (156)	50 (190)
50 (3.5)	115 (35)	86 (26)	30.0 (114)	47.0 (179)	59 (224)
60 (4.14)	138 (42)	94 (29)	32.5 (124)	53 (201)	68 (258)
70 (4.8)	161 (49)	102 (31)	35.2 (134)	58 (220)	77 (293)
80 (5.5)	184 (56)	109 (33)	37.6 (143)	63 (239)	85 (323)
90 (6.2)	207 (65)	116 (35)	40.0 (152)	67 (255)	92 (350)
100 (6.9)	230 (70)	122 (37)	42.0 (160)	71 (270)	98 (372)

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**LOBESTAR® MIXING EDUCTOR & LOBESTAR® SHEAR/MIXER
 ALL 2" (50mm) MODELS
PERFORMANCE CHART**

HEAD		VELOCITY OF DISCHARGE	NOZZLE ORIFICE SIZES*		
			1/2" (13mm)	5/8" (17mm)	3/4" (19mm)
PSI (BAR)	FEET (METERS)	FT/ SEC (M/SEC)	GPM lpm	GPM lpm	GPM lpm
30 (2.0)	69 (21)	67 (20)	30.0 (114)	37 (141)	60.0 (228)
40 (2.76)	92 (28)	77 (23)	41.0 (156)	50 (190)	72 (274)
50 (3.5)	115 (35)	86 (26)	47.0 (179)	59 (224)	83 (315)
60 (4.14)	138 (42)	94 (29)	53 (201)	68 (258)	90 (342)
70 (4.8)	161 (49)	102 (31)	58 (220)	77 (293)	98 (372)
80 (5.5)	184 (56)	109 (33)	63 (239)	85 (323)	104 (395)
90 (6.2)	207 (65)	116 (35)	67 (255)	92 (350)	111 (422)
100 (6.9)	230 (70)	122 (37)	71 (270)	98 (372)	120 (456)

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

LOBESTAR® MIXING EDUCTOR & LOBESTAR® SHEAR/MIXER
ALL 4" (100mm) MODELS
PERFORMANCE CHART

HEAD		VELOCITY OF DISCHARGE	NOZZLE ORIFICE SIZES*			
			1.0" (25mm)	1.25" (31mm)	1.38" (34mm)	1.50" (38mm)
PSI (BAR)	FEET (METERS)	FT/ SEC (M/SEC)	GPM (M ³ /MIN)	GPM (M ³ /MIN)	GPM (M ³ /MIN)	GPM (M ³ /MIN)
30 (2.0)	69 (21)	67 (20)	125 (0.48)	164 (0.61)	207 (0.78)	309 (1.16)
40 (2.76)	92 (28)	77 (23)	145 (0.54)	189 (0.71)	239 (0.90)	357 (1.34)
50 (3.5)	115 (35)	86 (26)	162 (0.61)	211 (0.79)	267 (1.0)	400 (1.5)
60 (4.14)	138 (42)	94 (29)	177 (0.66)	231 (0.87)	293 (1.1)	438 (1.64)
70 (4.8)	161 (49)	102 (31)	191 (0.72)	250 (0.94)	317 (1.18)	473 (1.77)
80 (5.5)	184 (56)	109 (33)	205 (0.77)	267 (1.0)	338 (1.27)	505 (1.89)
90 (6.2)	207 (65)	116 (35)	217 (0.81)	284 (1.1)	360 (1.35)	538 (2.01)
100 (6.9)	230 (70)	122 (37)	230 (0.86)	300 (1.12)	380 (1.42)	565 (2.12)

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

THE LOBESTAR® EDUCTOR PERFORMS BEST WITH A 2' (0.61 METERS) STRAIGHT PIPE EXTENSION INSTALLED ON THE DISCHARGE END OF THE EDUCTOR.



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**LOBESTAR® MIXING EDUCTOR & LOBESTAR® SHEAR/MIXER
 ALL 6" (150mm) MODELS
PERFORMANCE CHART**

HEAD		VELOCITY OF DISCHARGE	NOZZLE ORIFICE SIZES*			
			1.5" (38mm)	1.75" (44mm)	2.0" (50mm)	2.25" (56mm)
PSI (BAR)	FEET (METERS)	FT/ SEC (M/SEC)	GPM (M ³ /MIN)	GPM (M ³ /MIN)	GPM (M ³ /MIN)	GPM (M ³ /MIN)
30 (2.0)	69 (21)	67 (21)	250 (0.95)	309 (1.16)	500 (1.87)	655 (2.45)
40 (2.76)	92 (28)	77 (23)	298 (1.12)	357 (1.34)	580 (2.17)	756 (2.83)
50 (3.5)	115 (35)	86 (26)	330 (1.24)	400 (1.50)	647 (2.42)	845 (3.16)
60 (4.14)	138 (42)	94 (29)	362 (1.36)	438 (1.64)	710 (2.66)	926 (3.47)
70 (4.8)	161 (49)	102 (31)	391 (1.46)	473 (1.77)	765 (2.87)	1000 (3.7)
80 (5.5)	184 (56)	109 (33)	418 (1.57)	505 (1.89)	820 (3.10)	1070 (4.01)
90 (6.2)	207 (65)	116 (35)	443 (1.66)	540 (2.02)	870 (3.26)	1134 (4.25)
100 (6.9)	230 (70)	122 (37)	467 (1.75)	570 (2.13)	915 (3.43)	1198 (4.50)

*LOBESTAR® NOZZLE ORIFICE IS EQUIVALENT TO THE AREA OF A CIRCLE.
 THE LOBESTAR® EDUCTOR PERFORMS BEST WITH A 3' (0.92 METERS) STRAIGHT PIPE EXTENSION
 INSTALLED ON THE DISCHARGE END OF THE EDUCTOR.