USCG R and D Center Recreational Boating Safety Test Boat Documentation

Test boats used in the Coast Guard R&D Center's Recreational Boating Safety Safe Loading research project are documented both narratively and photographically. Photographs are to scale on a 1/2 meter grid, so that accurate measurements can be taken off the photographs.

This document is for use with other reports of recreational boating research in which these test boats are referenced.
### METRIC CONVERSION FACTORS

#### Approximate Conversions to Metric Measures

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#### Approximate Conversions from Metric Measures

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*1 °C = 1.8 °F (approximately). For other exact conversions and more detailed tables, see NBS Misc. Publ. 720, Units of Weights and Measures, Price: $2.25, AD Catalog No. C10.10281.
This document contains photographs, to scale, of boats used by the U.S. Coast Guard Research and Development Center's Recreational Boating Safety - Safe Loading Project. It is to be used as a reference in conjunction with other reports in this project area.

Each test boat is numbered by fiscal year purchased and consecutive number within that year. For example, Boat Number 73-18 is the eighteenth boat purchased in fiscal year 1973. For each boat in this document there are five pages. The first page provides general information, capacity plate information and motorwell information. The following four pages consist of scaled and guided photographs of the bow, side, top, stern, and bottom of each boat.

The photographs are mounted on a half-meter grid, so that accurate test boat measurements can be taken off the photographs.
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R&DC BOAT NUMBERS 73-18

GENERAL INFORMATION

Boat Type - Bowrider
Length Overall - 15.18 ft.
Beam Overall - 5.9 ft.
Beam at Chine
Weight - 820.8 lbs.
Longitudinal Center of Gravity - 72.54 in from transom
Vertical Center of Gravity - 18 inches from keel
Material - Fiberglass
General Hull Shape - Tri-Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 80 hp
Persons Capacity - 1260 lbs.
Maximum Weight Capacity - 1710 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains - 15/16"
Motorwell Volume - 7.58 gals.
Motorwell Drain Time - 49.95 sec.

1. Bow
2. Side
3. Top
4. Stern
5. Bottom
FIGURE 1  BOW VIEW OF BOAT  73-18
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.58 ft.
Beam Overall - 4.5 ft.
Beam at Chine - 3.4 ft.
Weight - 113 lbs.
Longitudinal Center of Gravity - 6.33 ft. aft of bow
Vertical Center of Gravity - .65 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 570 lbs.
Maximum Weight Capacity - 570 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

6. Bow
7. Side
8. Stern
9. Top
10. Bottom
FIGURE 7
SIDE VIEW OF BOAT 74-03
GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 12.06 ft.
Beam Overall - 4.12 ft.
Beam at Chine - 3.5 ft.
Weight - 140 lbs
Logitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 450 lbs
Maximum Weight Capacity - 590 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

11. Bow
12. Side
13. Stern
14. Top
15. Bottom
Figure 12: Side View of Boat 75-07

Scale: 1/2 Meter Grid

Coast Guard Research Boat 75-07
**GENERAL INFORMATION**

- **Boat Type**: Lightweight Skiff
- **Length Overall**: 11.71 ft.
- **Beam Overall**: 4.59 ft.
- **Beam at Chine**: 3.7 ft.
- **Weight**: 119 lbs
- **Longitudinal Center of Gravity**
- **Vertical Center of Gravity**
- **Material**: Aluminum
- **General Hull Shape**: Semi-Vee

**CAPACITY PLATE INFORMATION**

- **Maximum Allowable Horsepower**: 10 hp
- **Persons Capacity**: 450 lbs
- **Maximum Weight Capacity**: 570 lbs

**MOTORWELL INFORMATION**

- **Number of Drains**
- **Size of Drains**
- **Motorwell Volume**
- **Motorwell Drain Time**

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FIGURE 16
BOW VIEW OF BOAT

SCALE: 1/2 METER GRID
FIGURE 19
TOP VIEW OF BOAT 75-08

SCALE: 1/2 METER GRID
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.97 ft.
Beam Overall - 5.08 ft.
Beam at Chine - 3.53 ft.
Weight - 206 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 25 hp
Persons Capacity - 500 lbs
Maximum Weight Capacity - 700 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

21. Bow
22. Side
23. Stern
24. Top
Figure 21
Bow View of Boat

Scale: 1/2 Meter Grid
Figure 23: Stern view of boat 75-09.

Scale: 1/2 meter grid.
R&DC BOAT NUMBER 75-12

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 14.03 ft.
Beam Overall - 3.71 ft.
Beam at Chine - 2.52 ft.
Weight - 90 lbs
Longitudinal Center of Gravity - 7.86 ft. aft of bow
Vertical Center of Gravity - .511 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 440 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

25. Bow
26. Side
27. Stern
28. Top
FIGURE 27
STERN VIEW OF BOAT
75-12

SCALE: 1/2 METER GRID
R&DC BOAT NUMBER 75-13

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 14.03 ft.
Beam Overall - 4.07 ft.
Beam at Chine - 2.73 ft.
Weight - 133 lbs
Longitudinal Center of Gravity - 8.06 ft. aft of bow
Vertical Center of Gravity - .528 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 510 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

29. Bow
30. Side
31. Stern
32. Top
R&DC BOAT NUMBER 75-14

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 15 ft.
Beam Overall - 6.3 ft.
Beam at Chine
Weight - 700 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 85 hp
Persons Capacity - 750 lbs
Maximum Weight Capacity - 1250 lbs

MOTORWELL INFORMATION

Number of Drains - 2
Size of Drains - 3/4"
Motorwell Volume - 8.0 gals
Motorwell Drain Time - 1:15

33. Bow
34. Side
35. Stern
36. Top
37. Bottom
R&DC BOAT NUMBER 75-15

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.91 ft.
Beam Overall - 3.85 ft.
Beam at Chine - 2.67 ft.
Weight - 80 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity - .45 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 5 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 390 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

38. Bow
39. Side
40. Stern
41. Top
GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 12.0 ft.
Beam Overall - 4.30 ft.
Beam at Chine - 3.20 ft.
Weight - 98 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 325 lbs.
Maximum Weight Capacity - 465 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

42. Bow
43. Side
44. Stern
45. Top
R&DC BOAT NUMBER 75-17

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 11.97 ft.
Beam Overall - 4.13 ft.
Beam at Chine - 3.20 ft.
Weight - 82 lbs.
Longitudinal Center of Gravity - 6.98 ft. aft of bow
Vertical Center of Gravity - .686 ft. above keel
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 7.5 hp
Persons Capacity - 290 lbs.
Maximum Weight Capacity - 430 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

46. Bow
47. Side
48. Stern
49. Top
FIGURE 46  BOW VIEW OF BOAT

SCALE: 1/2 METER GRID

59
SCALE: 1/2 METER GRID

FIGURE 47 SIDE VIEW OF BOAT 75-17
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.85 ft.
Beam Overall - 3.64 ft.
Beam at Chine - 2.54 ft.
Weight - 71 lbs
Longitudinal Center of Gravity - 6.39 ft. Aft of Bow
Vertical Center of Gravity - .535 ft. Above Keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 3 hp
Persons Capacity - 150 lbs.
Maximum Weight Capacity - 300 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

50. Bow
51. Side
52. Stern
53. Top
FIGURE 52  STERN VIEW OF BOAT  75-18

SCALE: 1/2 METER GRID
SCAL: 1/2 METER GRID

FIGURE 53
TOP VIEW OF BOAT
75-18
R&DC BOAT NUMBER 75-22

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.82 ft.
Beam Overall - 3.41 ft.
Beam at Chine - 2.25 ft.
Weight - 64 lbs.
Longitudinal Center of Gravity - 6.55 ft. Aft of Bow
Vertical Center of Gravity - .375 ft. Above Keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 3 hp
Persons Capacity - 265 lbs.
Maximum Weight Capacity - 300 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

54. Bow
55. Side
56. Stern
57. Top
Figure 55

Side View of Boat 75-22

Scale: 1/2 Meter Grid
Figure 56: Stern View of Boat

Scale: 1/2 Meter Grid
GENERAL INFORMATION

Boat Type - Lightweight SKiff
Length Overall - 12.02 ft.
Beam Overall - 4.76 ft.
Beam at Chine - 3.75 ft.
Weight - 142 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 15 hp
Persons Capacity - 335 lbs
Maximum Weight Capacity - 535 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

58. Bow
59. Side
60. Stern
61. Top
62. Bottom
FIGURE 58
BOW VIEW OF BOAT
75-23

SCALE: 1/2 METER GRID
FIGURE 60  STERN VIEW OF BOAT  75-23

SCALE: 1/2 METER GRID
FIGURE 62
BOTTOM VIEW OF BOAT
75-23

SCALE: 1/2 METER GRID
R&DC BOAT NUMBER 75-24

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.94 ft.
Beam Overall - 3.81 ft.
Beam at Chine - 2.65 ft.
Weight - 92 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 335 lbs
Maximum Weight Capacity - 475 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

63. Bow
64. Side
65. Stern
66. Top
SCALE: 1/2 METER GRID

FIGURE 65  STERN VIEW OF BOAT  75-24
R&DC BOAT NUMBER 75-25

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.89 ft/
Beam Overall - 4.50 ft.
Beam at Chine - 3.02 ft.
Weight - 133 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 15 hp
Persons Capacity - 440 lbs.
Maximum Weight Capacity - 640 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

67. Bow
68. Side
69. Stern
70. Bottom
FIGURE 68  SIDE VIEW OF BOAT  75-25
R&DC BOAT NUMBER 75-26

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.90 ft.
Beam Overall - 4.40 ft.
Beam at Chine - 3.00 ft.
Weight - 120 lbs.
Longitudinal Center of Gravity - 6.75 ft.
Vertical Center of Gravity - 0.556 ft.
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 360 lbs.
Maximum Weight Capacity - 500 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

71. Bow
72. Side
73. Stern
74. Top
GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 19.09 ft.
Beam Overall - 6.98 ft.
Beam at Chine
Weight - 1500 lbs/ any weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 175 hp
Persons Capacity - 1286 lbs.
Maximum Weight Capacity - 1286 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

75. Bow
76. Side
77. Stern
78. Top
79. Bottom
GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 16.52 ft.
Beam Overall - 6.14 ft.
Beam at Chine
Weight - 900 lbs/ADV weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri-Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 100 hp
Persons Capacity - 1154 lbs
Maximum Weight Capacity - 1154 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 4.6 gals
Motorwell Drain Time - .54 secs

80. Bow
81. Side
82. Stern
83. Top
84. Bottom
GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 13.42 ft.
Beam Overall - 6.08 ft.
Beam at Chine
Weight - 340 lbs/ADV Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri-Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 40 hp
Persons Capacity - 827 lbs.
Maximum Weight Capacity - 839 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94".
Motorwell Volume - 4.6 gals
Motorwell Drain Time - .29 secs

85. Bow
86. Side
87. Stern
88. Top
89. Bottom
GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 15.92 ft.
Beam Overall - 6.08 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Deep-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 105 hp
Persons Capacity - 825 lbs.
Maximum Weight Capacity - 1275 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 8.3 gals
Motorwell Drain Time - .59 secs

90. Bow
91. Side
92. Stern
93. Top
94. Bottom
R&D C BOAT NUMBER 77-06

GENERAL INFORMATION

Boat Type - Deck Boat
Length Overall - 16.11 ft.
Beam Overall - 6.62 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 135 hp
Persons Capacity - 1065 lbs.
Maximum Weight Capacity - 1636 lbs

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 18.5 gals.
Motorwell Drain Time - 5.45

95. Bow
96. Side
97. Stern
98. Top
99. Bottom
GENERAL INFORMATION

Boat Type - Runabout Center Console
Length Overall - 19.45 ft.
Beam Overall - 8.17 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Deep-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 150 hp
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 7.9 gals
Motorwell Drain Time - 1:11

100. Bow
101. Side
102. Stern
103. Top
104. Bottom
FIGURE 101  SIDE VIEW OF BOAT  77-07
R&DC BOAT NUMBER 77-10

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 16.64 ft.
Beam Overall - 6.92 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 125 hp
Persons Capacity - 860 lbs.
Maximum Weight Capacity - 1300 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 6.0 gals
Motorwell Drain Time - 1:39

105. Bow
106. Side
107. Stern
108. Top
109. Bottom
R&DC BOAT NUMBER 77-11

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 14.9 ft.
Beam Overall - 5.91 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 85 hp
Persons Capacity - 1150 lbs
Maximum Weight Capacity - 1150 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 3.6 gals
Motorwell Drain Time - 1:05

110. Bow
111. Side
112. Stern
113. Top
114. Bottom
FIGURE 111 SIDE VIEW OF BOAT

SCALE: 1/2 METER GRID
Figure 114 Bottom View of Boat 77-11
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.08 ft.
Beam Overall - 3.58 ft.
Beam at Chine - 2.42 ft.
Weight - 82.74 lbs
Longitudinal Center of Gravity - 5.58 ft. from Top of Transom
Vertical Center of Gravity - 6.75 Inches from Deck
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.01 ft.
Beam Overall - 3.62 ft.
Beam at Chine - 2.42 ft.
Weight - 159.57 lbs.
Longitudinal Center of Gravity - 5.42 ft. from Top of Transom
Vertical Center of Gravity - 5.56 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.04 ft.
Beam Overall - 4.15 ft.
Beam at Chine - 3.92 ft.
Weight - 122.34 lbs.
Longitudinal Center of Gravity - 5.42 from Top of Transom
Vertical Center of Gravity - 5.75 Inches from Deck
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time
R&DC BOAT NUMBERS 78-05

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.02 ft.
Beam Overall - 4.60 ft.
Beam at Chine - 3.42 ft.
Weight - 83.73 lbs.
Longitudinal Center of Gravity - 5.99 ft. from Top of Transom
Vertical Center of Gravity - 6.25 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time
GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.02 ft.
Beam Overall - 4.75 ft.
Beam at Chine - 3.42 ft.
Weight - 161.91 lbs.
Longitudinal Center of Gravity - 5.71 ft. from Top of Transom
Vertical Center of Gravity - 5.00 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time