

## 2.4 DIMENSIONS AND AREAS

### 2.4.1 Specifications:

#### System Weights and Capacities:

- a. Net Weight: 1090 lb.
- b. Water Capacity: 900 US Gal

#### System Hydraulic Requirements:

- a. 15 GPM
- b. 2500 psi

#### **\*\*Caution\*\***

All hydraulic operation must be I/A/W applicable hydraulic system requirements and limitations.

#### Hover Pump/Snorkel Assy:

- a. GPM: 1800 GPM
- b. 12 ft long x 6 in dia. Spiral flex tube
- c. Weight: 105 lb.

#### System Electrical Requirements:

- 1. Tank System
  - a. 5 Amps
  - b. 28 VDC

## 2.6 Leveling and Weighing

### 2.6.1 System Weight and Balance:

COMPONENT	WEIGHT	ARM	MOMENT
TANK	985 lbs.	266.9 in.	262860 in-lb
SNORKEL	105 lbs.	206 in.	21630 in-lb
<b>TOTAL</b>	<b>1090 lbs.</b>	<b>261 in.</b>	<b>284490</b>

- a. The maximum allowable gross weight for *FIRE KING* tank operations is that which will allow an out-of-ground effect hover to be held. At no time shall the rotorcraft external maximum gross weight be exceeded.

### 2.6.2 Center of Gravity Limitations:

No Change. Refer to the Basic Flight Manual.

### 2.6.3 Load Meter:

No Change. Refer to the Basic Flight Manual.

### 2.6.4 Utility Hydraulics:

No Change. Refer to Ag-Air Basic Flight Manual Supplement.

### 2.6.5 Crew Restrictions:

The minimum crew is two pilots. During *FIRE KING* operations under FAR Part 133.35, no person may be carried unless:

1. The person is a flight crewmember.
2. The person is a flight crewmember in training.
3. The person performs an essential function to the *FIRE KING* operation.

## 2.7 Storing

The *FIRE KING* tank system has been treated inside and out to withstand most weather environments but should be stored in a cool, dry, indoor place if possible. If stored outdoors covering is preferred.

### 2.7.1 Maneuvering:

The tank system can be maneuvered using supplied jacking legs or with an optional forklift stand.

### 2.7.2 Draining:

Prior to short or long term storing ensure the *FIRE KING* tank system has been drained of all water by opening tank doors with sufficient ground clearance.

### 2.7.3 Flushing:

If *FIRE KING* tank system has been used in salt air environment or with mixed fire retardant it must be flushed inside and out using clean water prior to standing overnight or longer storage durations.