

SECTION 5
PERFORMANCE

GENERAL

IGE hover controllability has been substantiated in 17 knot wind from any direction up to 9800 feet (2990 meters) density altitude. Refer to hover performance charts for allowable gross weight.

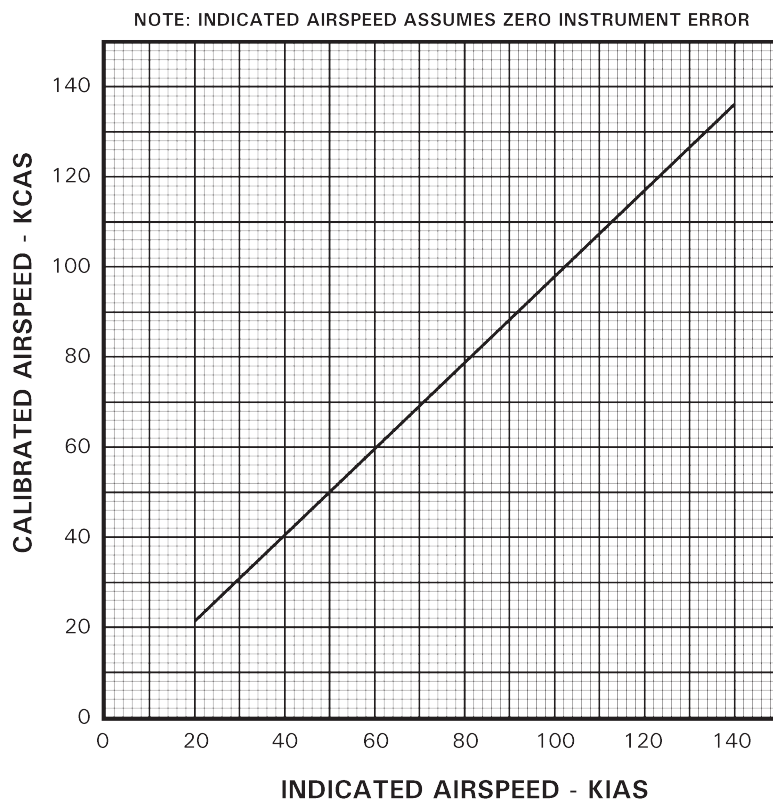
CAUTION

Performance data presented in this section was obtained under ideal conditions. Performance under other conditions may be substantially less.

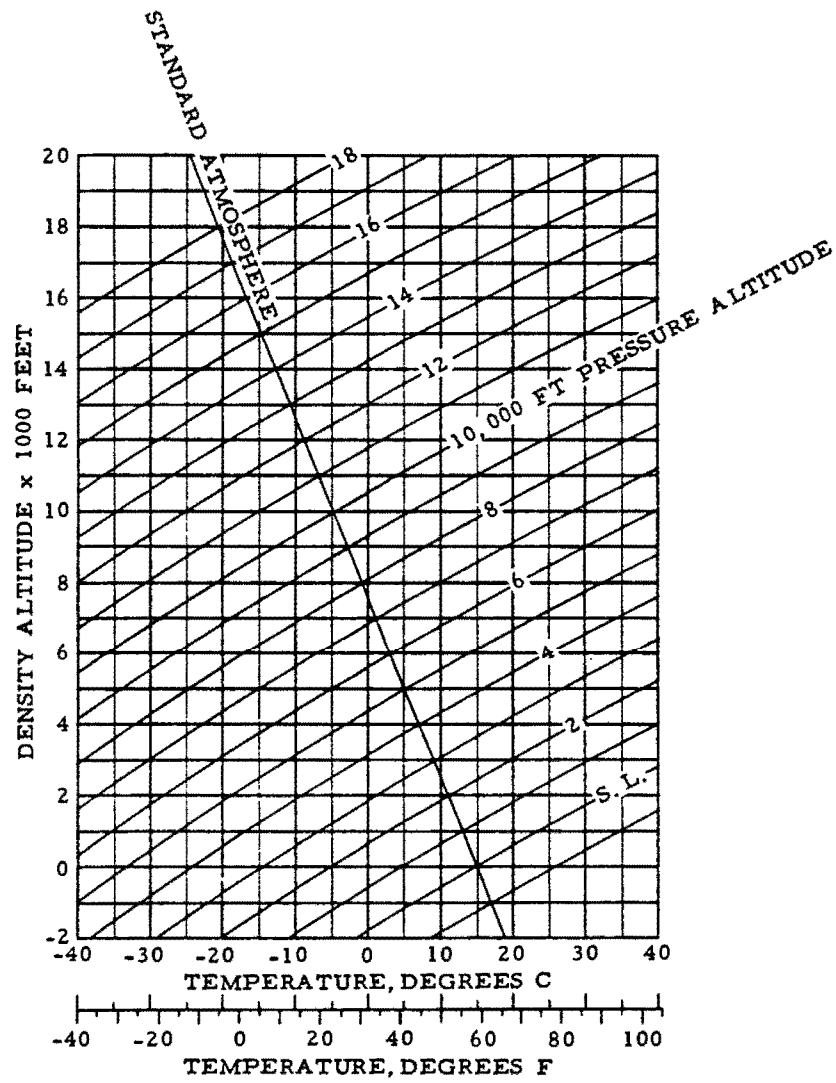
Indicated airspeed (KIAS) shown on charts assumes zero instrument error.

DEMONSTRATED OPERATING TEMPERATURE

Satisfactory engine cooling has been demonstrated to an outside air temperature of 38°C (100°F) at sea level or 23°C (41°F) above ISA at altitude.



AIRSPEED CALIBRATION CURVE

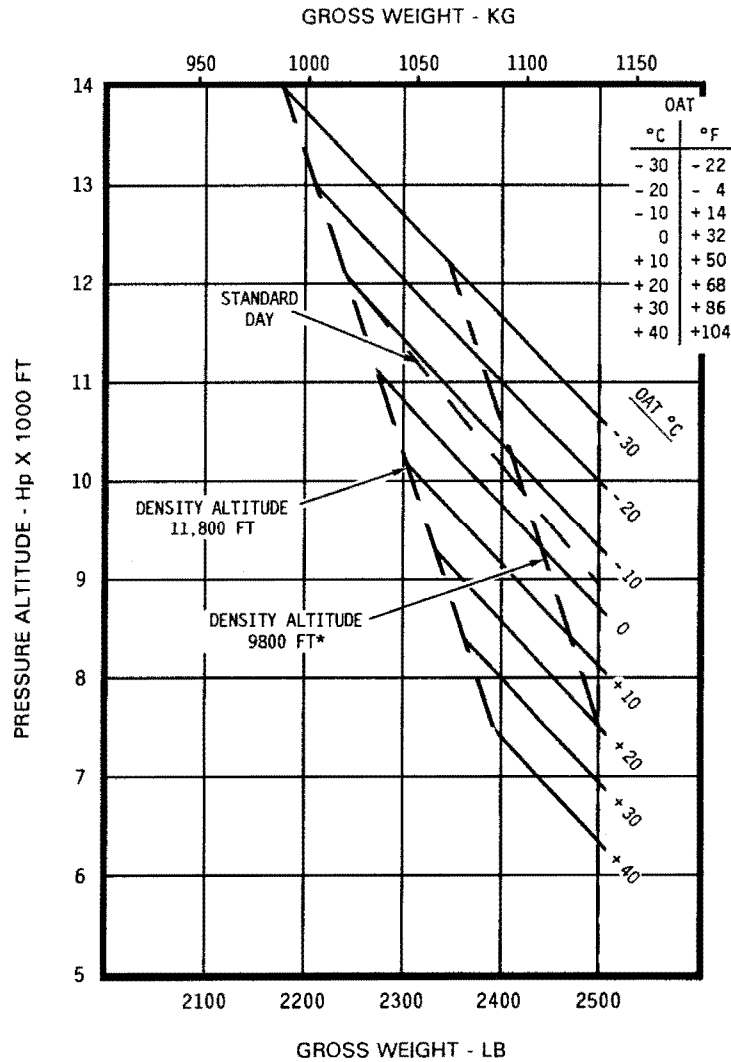


DENSITY ALTITUDE CHART

**ROBINSON
MODEL R44 II**

**SECTION 5
PERFORMANCE**

IN GROUND EFFECT AT 2 FOOT SKID HEIGHT
FULL THROTTLE
ZERO WIND



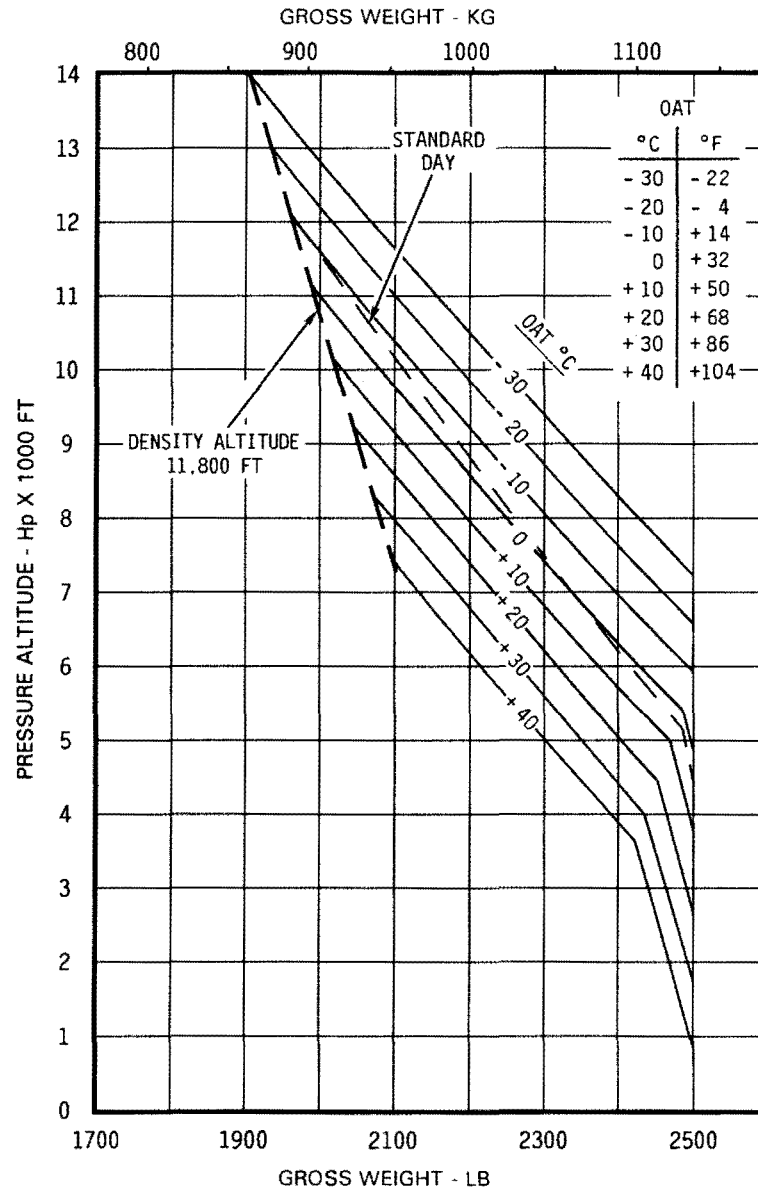
IGE HOVER CEILING VS. GROSS WEIGHT

*Hover controllability with 17 knot wind substantiated
up to 9800 feet density altitude.

**ROBINSON
MODEL R44 II**

**SECTION 5
PERFORMANCE**

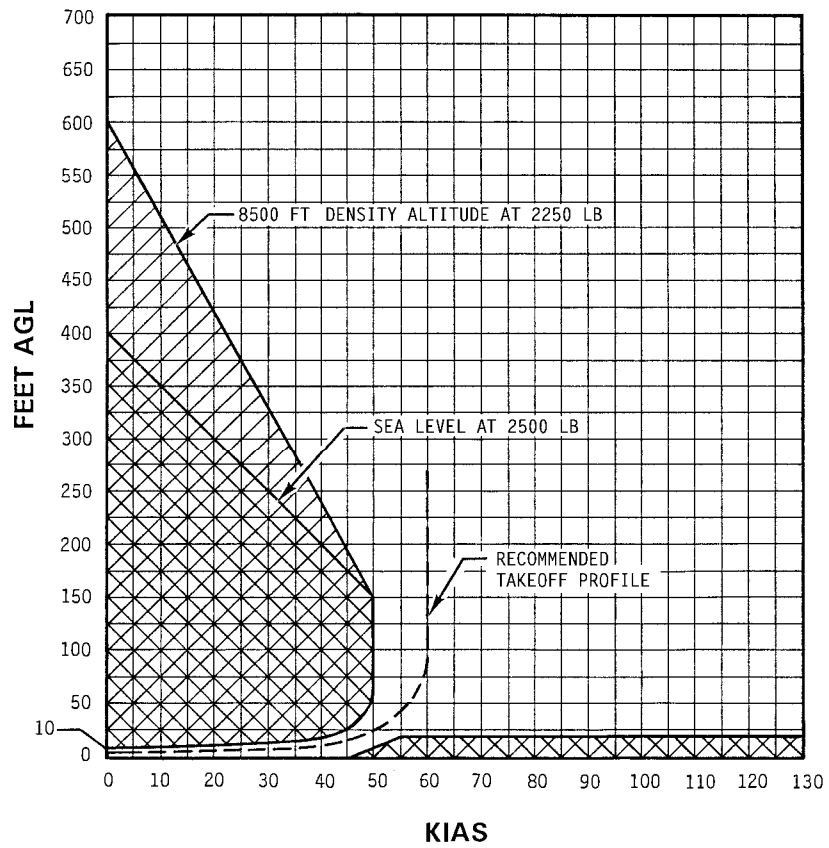
OUT OF GROUND EFFECT
TAKEOFF POWER OR FULL THROTTLE
ZERO WIND



OGE HOVER CEILING VS. GROSS WEIGHT

DEMONSTRATED CONDITIONS:
SMOOTH HARD SURFACE
WIND CALM

AVOID OPERATION IN SHADED AREAS



HEIGHT - VELOCITY DIAGRAM