

DA 40 DIAMOND STAR (2002)

ENGINE:

MODEL	LYC. IO-360-MIA
NO. CYLINDERS	4
DISPLACEMENT	361 CU. IN.
HP	180
CARBURETED OR FUEL INJECTED	FUEL INJECTED
FIXED PITCH/ CONSTANT SPEED PROPELLER	CONSTANT SPEED

FUEL:

FUEL CAPACITY	41.2 GALLONS LONG RANGE TANKS: 51 GALLONS
MIN. OCTANE FUEL	100LL
AVG. FUEL BURN AT 75% POWER IN STANDARD CONDITIONS PER HOUR	10.4 GALLONS

WEIGHTS AND CAPACITIES:

TAKEOFF/LANDING WEIGHT NORMAL CATEGORY	2,535/2,407 LBS.
TAKEOFF/LANDING WEIGHT UTILITY CATEGORY	2,161 LBS.
STANDARD EMPTY WEIGHT	1,620 LBS.
MAX. USEFUL LOAD NORMAL CATEGORY	915 LBS.
MAX. USEFUL LOAD UTILITY CATEGORY	541 LBS.
BAGGAGE CAPACITY	77 LBS.
OIL CAPACITY	8 QUARTS

PERFORMANCE:

DO NOT EXCEED SPEED	178 KIAS
MAX. STRUCTURAL CRUISING SPEED	129 KIAS
STALL SPEED CLEAN	52 KIAS
STALL SPEED LANDING CONFIGURATION	49 KIAS
CLIMB BEST RATE	1070 FPM
WING LOADING	17.4 LBS./SQ. FT.
POWER LOADING	14.1 LBS./ HP
MAX OPERATING ALTITUDE	16,400 FT.