

FEDERAL AVIATION AGENCY

1H14
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OMEGA
BS-12D1
May 8, 1961

TYPE CERTIFICATE DATA SHEET NO. 1H14

This data sheet which is a part of type certificate No. 1H14 prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Civil Air Regulations.

Type Certificate Holder Omega Aircraft Corporation
Municipal Airport
New Bedford, Mass.

I - Model BS-12D1, 5 PLCH, Approved May 2, 1961

Engine	2 Lycoming O-540-F1A5 or O-540-F1B5																						
Fuel	91/96 minimum grade aviation gasoline																						
Engine limits	For twin engine operation: <table><thead><tr><th>HP</th><th>RPM</th><th>MP In. Hg.</th><th>ALT</th></tr></thead><tbody><tr><td>235</td><td>2800</td><td>26.0</td><td>S.L.</td></tr><tr><td>235</td><td>2800</td><td>25.0</td><td>4000'</td></tr></tbody></table> For single engine operation only: <table><tbody><tr><td>5 min.</td><td>260</td><td>2800</td><td>28.0</td><td>S.L.</td></tr><tr><td>5 min.</td><td>260</td><td>2800</td><td>27.5</td><td>800'</td></tr></tbody></table> (Straight line manifold pressure variation with altitude shown)	HP	RPM	MP In. Hg.	ALT	235	2800	26.0	S.L.	235	2800	25.0	4000'	5 min.	260	2800	28.0	S.L.	5 min.	260	2800	27.5	800'
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235	2800	26.0	S.L.																				
235	2800	25.0	4000'																				
5 min.	260	2800	28.0	S.L.																			
5 min.	260	2800	27.5	800'																			
Rotor limits	Maximum 350 r.p.m. Minimum 280 r.p.m.																						
Airspeed limits	Vne 95 m.p.h. (82 knots) CAS																						
C.G. range	(118.0) to (126.0)																						
Empty weight C.G. range	None																						
Datum	124 in. forward of centerline main rotor																						
Leveling means	Plumb bob at centerline of aircraft (179)																						
Maximum weight	4750 lb.																						
No. of seats	5. (2 at 39.5, 3 at 70.5)																						
Maximum baggage	None																						
Fuel capacity	78 gal., 39 gal. at (133), 39 gal. at (161)																						
Oil capacity	6 gal. (131)																						
Rotor blade and control movements	For rigging information refer to Maintenance Manual.																						

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Serial Nos. eligible	1002 and up
Certification basis	CAR 6, December 20, 1956, and Amendment 6-1 through 6-4. Type Certificate No. 1H14 issued May 2, 1961. Date of Application for Type Certificate May 7, 1960.
Production basis	None. Prior to certification of each aircraft, a FAA representative must perform a detailed inspection for workmanship, materials, and conformity with the approved technical data, and a check of flight characteristics.
Equipment:	The basic required equipment as prescribed in the applicable airworthiness regulations (see certificated basis) must be installed in the helicopter for certification. In addition, the following items of equipment are required: (a) FAA Approved Rotorcraft Flight Manual dated May 2, 1961.

NOTE 1. Current weight and balance report including list of equipment in certificated empty weight, and loading instructions when necessary, must be in each helicopter at the time of original certification and at all times thereafter except in the case of operators having an approved weight control system.

NOTE 2. The following placard must be displayed in front of and in clear view of the pilot:

"THIS HELICOPTER MUST BE OPERATED IN COMPLIANCE WITH THE OPERATING
LIMITATIONS SPECIFIED IN THE FAA APPROVED ROTORCRAFT FLIGHT MANUAL."

NOTE 3. Information essential to the proper maintenance of the helicopter is contained in the manufacturer's Maintenance Manual provided with each helicopter.

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