

FEDERAL AVIATION ADMINISTRATION

H8SW
Consolidated Air Crane
CH34A
CH34C
HSS-1/UH-34D
HSS-1N/UH-34J
June 15, 1981

TYPE CERTIFICATE DATA SHEET NO. H8SW

This data sheet which is a part of type certificate No. H8SW prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Consolidated Air Crane, Inc.
Box 276
Stroud, Oklahoma

I - Model HSS-1/UH-34D, HSS-1N/UH-34J, CH-34A and CH-34C (Restricted Category) approved May 30, 1979.

Engine	Wright Cyclone R-1820-84C/989C9 HE2 Wright Cyclone R-1820-84D/998C9 HE2 (same limitations all engines)																																																																																									
Fuel	115/145 or 100/130 minimum grade aviation fuel.																																																																																									
Engine limits	<table border="0"> <tr> <td></td> <td>H.P.</td> <td>R.P.M.</td> <td>M.P. In.Hg.</td> <td>Alt.</td> </tr> <tr> <td>Fuel Grade 115/145</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Max continuous</td> <td>1275</td> <td>2500</td> <td>47.5</td> <td>S.L.</td> </tr> <tr> <td>Max continuous</td> <td>1275</td> <td>2500</td> <td>46.0</td> <td>3,500 ft.</td> </tr> <tr> <td>Takeoff</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(5 minutes)</td> <td>1525</td> <td>2800</td> <td>56.5</td> <td>S.L.</td> </tr> <tr> <td>Takeoff</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(5 minutes)</td> <td>1525</td> <td>2800</td> <td>55.5</td> <td>700 ft.</td> </tr> <tr> <td colspan="5">(straight line manifold pressure variation with altitudes shown)</td> </tr> <tr> <td>Fuel Grade 100/130</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Max continuous</td> <td>1275</td> <td>2500</td> <td>47.5</td> <td>S.L.</td> </tr> <tr> <td>Max continuous</td> <td>1275</td> <td>2500</td> <td>46.0</td> <td>3,500 ft.</td> </tr> <tr> <td>Takeoff</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(5 min)</td> <td>1425</td> <td>2800</td> <td>53.0</td> <td>S.L.</td> </tr> <tr> <td>Takeoff</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(5 min)</td> <td>1425</td> <td>2800</td> <td>55.5</td> <td>2900 ft.</td> </tr> <tr> <td colspan="5">(straight line manifold pressure variation with altitudes shown)</td> </tr> </table>						H.P.	R.P.M.	M.P. In.Hg.	Alt.	Fuel Grade 115/145					Max continuous	1275	2500	47.5	S.L.	Max continuous	1275	2500	46.0	3,500 ft.	Takeoff					(5 minutes)	1525	2800	56.5	S.L.	Takeoff					(5 minutes)	1525	2800	55.5	700 ft.	(straight line manifold pressure variation with altitudes shown)					Fuel Grade 100/130					Max continuous	1275	2500	47.5	S.L.	Max continuous	1275	2500	46.0	3,500 ft.	Takeoff					(5 min)	1425	2800	53.0	S.L.	Takeoff					(5 min)	1425	2800	55.5	2900 ft.	(straight line manifold pressure variation with altitudes shown)				
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Rotor Limits	maximum 258 RPM maximum 170 RPM																																																																																									
Airspeed limits	Vne (Never exceed) 128 KIAS (See Note 2 for required placard)																																																																																									
C.G. range	(+130.7) to (+146.7)																																																																																									
Empty weight C.G. range	None																																																																																									
Datum	137.7 inches fwd of main rotor centroid																																																																																									

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Maximum weight	13,600 lbs.
Minimum crew	1 (pilot) (See Note 2)
No. Seats	4 - Pilot & co-pilot (+93) external load master (+131) winch operator (+131)
Fuel capacity	145 gal fwd tank (Arm 121) 69 gal center tank (Arm 184) 92 gal aft tank (Arm 223)
Oil capacity	10.5 gal. (+75)
Other Operating: Limitations	TM 55-1520-202-10 and Consolidated Airplane FAA approved Flight Manual Supplement dated May 30, 1979
Serial Numbers Eligible:	All U.S. Military Serial Nos. appropriately screened by FAA (Ref. Notice 8130-22)
Certification Basis:	FAR 21.25(a)(2) effective February 1, 1965 Type Certificate No. H8SW Issued May 30, 1979 For the purpose of: Carriage of external loads
Production basis	None. No helicopter may be produced under this approval.
Equipment:	The basic required equipment, as prescribed in the applicable airworthiness regulations (see Certificate Basis), must be installed in the helicopter for certification. In addition, equipment necessary for the particular special purpose must be installed.

NOTE 1: Current Weight and Balance Report, including list of equipment included in certificated empty weight, and loading instructions, when necessary, must be in each helicopter at time of original airworthiness certification and at all times thereafter.

NOTE 2: The following placards must be prominently displayed in the cockpit in full view of the pilot:

- (a) "This rotorcraft must be operated in accordance with the restricted category operating limitations of FAR 91.39."
- (b) "Do not exceed 128 KIAS" (next to A/S indicator)

NOTE 3: Prior to Civil Airworthiness Certification the following must be accomplished:

- (a) Modifications in accordance with Consolidated Air Crane Report #CAR 18 or other FAA approved special purpose modification.
- (b) All applicable Civil Airworthiness Directives must be complied with.

NOTE 4: These helicopters must be serviced and maintained in compliance with the applicable military service and maintenance publications as specified for each model in Consolidated Air Crane Report #CAR 18.

NOTE 5: Component overhaul intervals and replacement time shall be in accordance with the applicable military specifications outlined in Consolidated Air Crane Report #CAR 18.

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