
**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

E4WE

Revision 31

HONEYWELL
(Allied Signal Inc.
Garrett, AiResearch)

<u>TPE 331-3</u>	<u>TPE 331-8</u>	<u>TPE 331-10</u>	<u>TPE 331-11U</u>
<u>TPE 331-3U</u>	<u>TPE 331-8A</u>	<u>TPE 331-10P</u>	<u>TPE 331-11UA</u>
<u>TPE 331-3UW</u>	<u>TPE 331-9</u>	<u>TPE 331-10R</u>	<u>TPE 331-12</u>
<u>TPE 331-3W</u>	<u>TPE 331-9U</u>	<u>TPE 331-10T</u>	<u>TPE 331-12B</u>
<u>TPE 331-5</u>	<u>TPE 331-10</u>	<u>TPE 331-10U</u>	<u>TPE 331-12JR</u>
<u>TPE 331-5A</u>	<u>TPE 331-10A</u>	<u>TPE 331-10UA</u>	<u>TPE 331-12UA</u>
<u>TPE 331-5AB</u>	<u>TPE 331-10AV</u>	<u>TPE 331-10UF</u>	<u>TPE 331-12UAR</u>
<u>TPE 331-5B</u>	<u>TPE 331-10B</u>	<u>TPE 331-10UG</u>	<u>TPE 331-12UER</u>
<u>TPE 331-5U</u>	<u>TPE 331-10G</u>	<u>TPE 331-10UGR</u>	<u>TPE 331-12UHR</u>
<u>TPE 331-6</u>	<u>TPE 331-10GP</u>	<u>TPE 331-10UJ</u>	<u>TSE 331-3U</u>
<u>TPE 331-6A</u>	<u>TPE 331-10GR</u>	<u>TPE 331-10UK</u>	
<u>TPE 331-6U</u>	<u>TPE 331-10GT</u>	<u>TPE 331-10UR</u>	
	<u>TPE 331-10J</u>		

FEBRUARY 1, 2000

TYPE CERTIFICATION DATA SHEET E4WE

Engine models described herein conforming with this data sheet (which is part of Type Certificate No. E4WE) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certified aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder: Honeywell International Inc.
111 South 34th Street
Phoenix, Arizona 85034

Type Certificate Data Sheet No. E4WE

Type: Single-shaft engine with two-stage centrifugal compressor, three-stage axial turbine, and singular annular combustion chamber

Ratings (see NOTES 3, 4, and 5)

	<u>Maximum Continuous</u>			<u>Takeoff (5 Minutes)</u>				<u>Output Shaft RPM</u>
	<u>SHP</u>	<u>ESHP</u>	<u>Output Shaft RPM</u>	<u>SHP (Dry)</u>	<u>SHIP (Wet) *</u>	<u>ESHP (Dry)</u>	<u>ESHP (Wet) *</u>	
Model TPE331								
-3	840	904	2000	840	940	904	1010	2000
-3U	"	"	"	"	"	"	"	"
-3UW	"	"	"	"	"	"	"	"
-3W	"	"	"	"	"	"	"	"
-10UA	"	"	"	"	"	"	"	"
-5	776	834	1591	776	776	834	834	1591
-5B	"	"	"	"	"	"	"	"
-5U	"	"	"	"	"	"	"	"
-10P	"	"	"	"	"	"	"	"
-10T	"	"	"	"	"	"	"	"
-5A	"	"	"	"	840	"	904	"
-5AB	"	"	"	"	"	"	"	"
-10GP	"	"	"	"	"	"	"	"
-10GT	"	"	"	"	"	"	"	"
-6	715	776	2000	750	N/A	808	N/A	2000
-6A	"	"	"	"	"	"	"	"
-6U	"	"	"	"	"	"	"	"
-10AV	"	756	"	"	"	792	"	"
-8	715	755	2000	715	N/A	755	N/A	2000
-8A	"	"	1591	"	"	"	"	1591
-10N	"	"	2000	"	"	"	"	2000
-9	865	907	2000	865	N/A	907	N/A	2000
-9U	"	"	"	"	"	"	"	"
-10	900	944	1591	940	940	984	989	1591
-10G	"	"	"	"	"	"	"	"
-10GR	"	"	"	"	"	"	"	"
-10R	"	"	"	"	"	"	"	"
-10U	"	"	"	"	"	"	"	"
-10UF	"	"	"	"	"	"	"	"
-10UG	"	"	"	"	"	"	"	"
-10UGR	"	"	"	"	"	"	"	"
-10UR	"	"	"	"	"	"	"	"
-12	"	"	"	"	N/A	"	N/A	"

Type Certificate Data Sheet No. E4WE

Model TSE331

-3U 700 756 2482 800 N/A 858 N/A 2482

*Augmented with water-alcohol per NOTE 5

Model TPE331	Weight, Dry **(Pounds)	Propeller-Shaft to engine rotor ratio
-3, -3U, -3UW, -3W	353	1:20.865
-5, -5U	360	1:26.229
-5A	370	"
-5B	375	"
-5AB	385	"
-6, -6U	360	1:20.865
-6A	375	"
-8	370	1:20.865
-8A	370	1:26.229
-9, -9U	375	1:20.865
-10, -10G, -10GR, -10R, -10T, -10U, -10UF, -10UG, -10UGR, -10GT, -10UR, -12	385	1:26.229
-10P, -10GP	400	1:26.229
-10A, -10AV	385	1:20.865
-10B, -10UK	387	"
-10N	385	"
-10UA	377	"
-10J, -10UJ	393	1:26.229
-11U, -11UA	405	"
-12B	429	1:20.865
-12JR	415	1:26.229
-12UA, -12UAR, -12UER, -12UHR	405	1:26.229

Model TSE331

-3U

350

1:16.813

**The engine weight shown herein consists of hardware as shown on the engine parts list including nose cone assembly, intermediate housing and gear assembly, torque sensor assembly, power group (compressor and turbine), fuel delivery system (including low and high pressure pumps and fuel filter with integral bypass and thermostatically controlled valve for filter and anti-icing, fuel control unit, fuel-shutoff valve), ignition system, and propeller oil flow tube, but does not include: (a) hardware shown on the engine equipment list with the exception of fuel control unit, or (b) items coded "A" on the engine parts list.

FUEL TYPES AND ADDITIVES

Refer to the FAA approved Section of the Installation Manual IM-5117).

Controls (See Note 13)

Principal dimension of basic engine

Refer to the Installation Drawing for each specific engine model configuration for dimensions and center of gravity location.

Oil

Oil conforming to AlliedSignal Specification EMS53110 (Type I and Type II) is approved.