

European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET FOR NOISE

HR200 and R2000 series

**Type Certificate Holder:
Alpha Aviation Manufacturing Ltd**
Hamilton
NEW ZEALAND

For models : HR200-100
HR200-120
HR200-120B
HR200-160
R2100
R2100A
R2112
R2120U
R2160
R2160D
R2160i

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Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **HR200-100**

Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-H2C**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C422	McCauley	1A105/BCM7056	none	780	66,7	70,4
C423	Hoffmann Propeller	HO-14-178-115	none	780	66,7	70,4

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **HR200-120B**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-L2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C424	McCauley	1A135/JCM7147	none	780	70,3	70,4

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** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **HR200-120B**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-L2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C93	Hoffmann Propeller	HO-14-178-115	none	780	79,1	79,7

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** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **HR200-160**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-320-D2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C94	Sensenich	74DM6S5-2-66	none	800	66,1	80,1

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** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2100**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-H2C**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C437	McCauley	1A105/BCM7056	none	760	68,1	70,1
C438	Hoffmann Propeller	HO-14-178-115	none	760	68,1	70,1

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2100A**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-H2C**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C439	McCauley	1A105/BCM7056	none	775	67,8	70,3

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** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2112**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-L2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C440	Sensenich	72CKS6-0-56	none	800	67,5	70,7

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2120U**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-235-L2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C146	Sensenich	72CK56-0-54	none	800	75,2	80,1

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2160**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-320-D2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10 (10.4a)**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C10252	Sensenich	74DM6S5-2-64	none	900	73,1	81,7

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2160**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-320-D2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C444	Sensenich	74DM6S5-2-64	none	800	**	**

**The aircraft is in accordance with the provisions of Article 6.1 of Regulation 216/2008 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of being specifically designed for aerobatic purposes.

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2160D**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-320-D2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10 (10.4a)**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C443	Sensenich	74DM6S5-2-64	none	900	73,1	81,7
C8798	Sensenich	74DM6S5-2-66	none	900	73,1	81,7

* Items so marked shall be included on EASA Form 45.

** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2160D**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **O-320-D2A**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C441	Sensenich	74DM6S5-2-64	Valid up to S/N 264; Maximum Take-off power and Highest power in the normal operating range set to 2600 rpm	800	68,8	70,7
C8797	Sensenich	74DM6S5-2-66	Valid up to S/N 264; Maximum Take-off power and Highest power in the normal operating range set to 2600 rpm	800	68,8	70,7

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** Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder* **Alpha Aviation Manufacturing Ltd** Aircraft Type Designation* **R2160i**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **AEIO-320-D2B**
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C148	Sensenich	74DM7S5-2-64	none	900	72,1	81,7

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Change Record

Issue	Date	Changes
Issue 1	08 January 2007	Initial Issue
Issue 2	11 May 2007	Revised
Issue 3	15 December 2008	Revised
Issue 4	25 January 2011	Added record C10252, amended records C441, C444 and C8797