

European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET FOR NOISE

VULCANAIR P.68

**Type Certificate Holder:
Vulcanair S.p.A.**

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ITALY

For models : AP68TP 300 "Spartacus"
AP68TP 600 "Viator"
P.68 "Observer 2"
P.68 "Observer"
P.68 "Victor"
P.68 B "Victor"
P.68 C
P.68 C-TC
P.68 R "Victor"
P.68 TC "Observer"

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **AP68TP 300 "Spartacus"**
 Engine Manufacturer* **Allison** Engine Type Designation* **250-B17C**
 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 |
| C2338 | Hartzell Propeller Inc. | HC-83TF-7A/T10173F-21R | none | 2,600 | 71.9 | 80.0 |
| C9750 | Hartzell Propeller Inc. | HC-83TF-7A/T10173FN-21R | none | 2,600 | 71.9 | 80.0 |

* 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* **Vulcanair S.p.A.** Aircraft Type Designation* **AP68TP 600 "Viator"**
 Engine Manufacturer* **Allison** Engine Type Designation* **250-B17C**
 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 |
| C5060 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173F-21R | none | 3,000 | 79.5 | 88.0 |
| C9749 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173FN-21R | none | 3,000 | 79.5 | 88.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 "Observer 2"**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B6**
 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 |
| C5474 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-4 | none | 2,084 | 72.7 | 88.0 |

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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* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 "Observer"**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B**
 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 |
| C3859 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 73.7 | 80.0 |

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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 | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications | Maximum Take-off mass (kg) | Take-off dB(A) | |
|-----------------|--------------------------------|------------------------------|--------------------------|----------------------------|----------------|-----------|
| | | | | | Level | Limit |
| C9744 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,960 | ** | ** |
| C9742 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,860 | ** | ** |

**By virtue of the date of type certification this aircraft type 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. However for individual examples of this aircraft type which were first issued with a certificate of airworthiness on or after 1 January 1980 there is a need to demonstrate compliance with the Standards of ICAO Annex 16, Volume I.

| | | | |
|---------------------------|--------------------------------|---------------------------|---------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| 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 |
| C3424 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4** | 88.0** |

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| | | | |
|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| 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 |
| C5670 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,860 | 73.2** | 80.0** |

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|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications | Maximum Take-off mass (kg) | Take-off dB(A) | |
|-----------------|--------------------------------|-------------------------------|--------------------------|----------------------------|----------------|-----------|
| | | | | | Level | Limit |
| C9745 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,960 | ** | ** |
| C9746 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-4 | none | 1,960 | ** | ** |
| C9743 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,860 | ** | ** |

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|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| 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 |
| C5671 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,860 | 73.2** | 80.0** |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 B "Victor"**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B**
 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 |
| C3426 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 76.4 | 88.0 |
| C3427 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 |

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

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| | | | |
|---------------------------|--------------------------------|---------------------------|------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 B "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications | Maximum Take-off mass (kg) | Take-off dB(A) | |
|-----------------|--------------------------------|--------------------------------|--------------------------|----------------------------|----------------|-----------|
| | | | | | Level | Limit |
| C9748 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | ** | ** |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 B "Victor"**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B6**
 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 |
| C3876 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 73.6 | 80.0 |
| C3877 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 74.8 | 80.0 |

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| | | | |
|---------------------------|--------------------------------|---------------------------|---------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 B "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| 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 |
| C3428 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4** | 88.0** |

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|---------------------------|--------------------------------|---------------------------|------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 B "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications | Maximum Take-off mass (kg) | Take-off dB(A) | |
|-----------------|--------------------------------|--------------------------------|--------------------------|----------------------------|----------------|-----------|
| | | | | | Level | Limit |
| C9747 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | ** | ** |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 C**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B6**
 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 |
| C5726 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 2,084 | 77.6 | 88.0 |
| C3429 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 76.4 | 88.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 C**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B6**
 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 |
| C3880 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-4 | none | 1,990 | 73.7 | 80.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 C-TC**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **TIO-360-C1A6D**
 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 |
| C10438 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | Modification P68/073 (Increase of MTOW) | 2,084 | 83.2 | 88.0 |
| C3431 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,990 | 80.4 | 88.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 C-TC**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **TIO-360-C1A6D**
 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 |
| C3430 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,990 | 74.6 | 80.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 C-TC**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **TO-360-C1A6D**
 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 |
| C3432 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-0 | none | 1,990 | 74.6 | 80.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 C-TC**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **TO-360-C1A6D**
 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 |
| C3433 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-0 | none | 1,990 | 80.4 | 88.0 |

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| | | | |
|---------------------------|--------------------------------|---------------------------|---------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 R "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| 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 |
| C8955 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4** | 88.0** |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 R "Victor"**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **IO-360-A1B6**
 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 |
| C9911 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 2,063 | 78.8 | 88.0 |
| C9758 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 |

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Type Certificate Holder* **Vulcanair S.p.A.** Aircraft Type Designation* **P.68 TC "Observer"**
 Engine Manufacturer* **Lycoming** Engine Type Designation* **TIO-360-C1A6D**
 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 |
| C10391 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-0 | none | 2,084 | 83.2 | 88.0 |
| C3434 | Hartzell Propeller Inc. | HC-C2YK-2C()/FC7666A-0 | none | 1,960 | 83.2 | 88.0 |

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Change Record

| Issue | Date | Changes |
|--------------|------------------|--|
| Issue 1 | 05 November 2009 | Initial Issue |
| Issue 2 | 12 July 2010 | Added records C2338, C9750, C5060, C9749 |
| Issue 3 | 07 June 2011 | Record C10391 added. |
| Issue 4 | 21 June 2011 | Changed record C10391, added record C10438 |