



United States of America  
Department of Transportation  
Federal Aviation Administration

# Supplemental Type Certificate

Number: SH3509SW

This certificate issued to: RSG Products Inc.  
440 West Lane Suite 100  
Saginaw TX, 76131

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of 27 of Federal Aviation Regulations

Original Product *Make:* Airbus Helicopters  
Type Certificate Number: H9EU *Model:* AS350 B, B1, B2, B3, BA, C, D, D1;  
*Description of Type Design Change:* EC130B4

Installation of a Single and Dual Condenser Blower Air Conditioning System in accordance with Integrated Flight Systems (IFS) Master Drawing List (MDL), Document No. DL-9 (Vapor Cycle Air Conditioning System with Belt Driven Compressor Utilizing Refrigerant R134a), Rev. T, dated 09/01/2014, or later FAA approved revision.

(See continuation sheet 3 of 3)

*Limitations and Conditions:*

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of Application:* September 10, 1984 *Date Reissued:* April 30, 1991; August 22, 2001; October 23, 2008; August 26, 2011; November 29, 2021  
*Date of Issuance:* September 20, 1985 *Date Amended:* February 11, 1999; February 9, 2009; February 23, 2009; November 5, 2010; September 14, 2015

*By Direction of the Administrator*

*Signature:* \_\_\_\_\_  
Jim Grigg  
*Title:* Manager, Fort Worth ACO Branch  
Compliance & Airworthiness Division  
Aircraft Certification Service

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



United States of America  
Department of Transportation  
Federal Aviation Administration  
*Supplemental Type Certificate*

Number:   SH3509SW  

**INSTRUCTIONS:** *The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.*

***Transfer Endorsement***

*Transfer the ownership of Supplemental Type Certificate Number:* \_\_\_\_\_

**To** *(Name and address of transferee):*

**From** *(Name and address of grantor):*

*Extent of Authority (if licensing agreement):*

*Date of transfer:*

*Signature of grantor:* \_\_\_\_\_

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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

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United States of America  
 Department of Transportation  
 Federal Aviation Administration  
*Supplemental Type Certificate*

*(Continuation Sheet)*

Number: SH3509SW

Date of Issuance: September 20, 1985

Date Reissued: November 29, 2021

*Description of Type Design Change*

For Single Condenser Configurations the following FAA Approved Flight Manual Supplements (FMSs) and revisions, or later FAA approved revisions, are required accordingly:

- AS350B, C, D, D1: FMS 19-350-21-002-011, Rev. D, dated 11/17/2014.
- AS350B1: FMS 19-350-21-004-011, Rev. C, dated 11/17/2014.
- AS350B2: FMS 19-350-21-006-011, Rev. B, dated 11/17/2014.
- AS350B3: FMS 19-350-21-008-011, Rev. B, dated 11/17/2014.
- AS350BA: FMS 19-350-21-010-011, Rev. B, dated 11/17/2014.
- EC130B4: FMS dated 2/6/04.

For Dual Condenser Configurations the following FAA approved FMSs and revisions, or later FAA approved revisions, are required accordingly:

- AS350B, C, D, D1: FMS 19-350-21-001-031, Rev. D, dated 11/17/2014.
- AS350B1: FMS 19-350-21-003-031, Rev. C, dated 11/17/2014.
- AS350B2: FMS 19-350-21-005-031, Rev. B, dated 11/17/2014.
- AS350B3: FMS 19-350-21-007-031, Rev. B, dated 11/17/2014.
- AS350BA: FMS 19-350-21-009-031, Rev. B, dated 08/18/2015.

Instructions for Continued Airworthiness, IFS Document No. IFSE-0007, Rev. C, dated 8/12/2010, or later revision is required.

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Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with Title 14 of the Code of Federal Regulations, part 21, section 21.47 (14 CFR 21.47). A transfer must be endorsed as provided on the reverse hereof. A Type Certificate holder who allows a person to use the Type Certificate to manufacture a new aircraft, aircraft engine, or propeller must provide that person with a written licensing agreement acceptable to the FAA. (Ref. 14 CFR 21.55).

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## SUPPLEMENTAL TYPE CERTIFICATE

**EASA.IM.R.S.01243**

This certificate, established in accordance with Regulations (EC) No 1592/2002 and (EC) No 1702/2003 and issued to:

**Integrated Flight Systems Corp.**  
4607 B Aircentre Circle  
Reno  
Nevada 89502  
USA

certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable type certification basis and environmental protection requirements when operated within the conditions and limitations specified below:

**Original Product Type Certificate number:** *EASA TCDS EASA.R.008*

**Manufacturer:** *Eurocopter*

**Model:** *AS 350 B, B1, B2, B3, BA, D, EC130B4*

**Original STC Number:** *SH3509SW*

**Description of Design Change:**

Installation of a Belt Driven Freon Air Conditioning System (FAA STC SH3509SW).





**Associated Technical Documentation:**

- DL-9 rev A dated 12 Sept 1985 – Drawing List, Single Condenser Blower
- DL-9-1 rev N/C dated 10 Jan 1992 – Drawing List, Dual Condenser Blowers
- Models AS350B & D, FMS dated 26 June 1985 or later approved revision
- Model AS 350B1, FMS dated 27 October 1988 or later approved revision
- Model AS350B2, FMS dated 30 April 1991 or later approved revision
- Model AS350BA, FMS dated 15 May 1992 or later approved revision
- Model AS350B3, FMS dated 8 February 1999 or later approved revision
- Model EC130B4, RFM-130-00-031HP rev Original dated 6 February 2004 or later approved revision

**Limitations and Conditions:**

1. VFR Operations only
2. This STC is approved only for the product configuration as defined in the approved design data referred to in the paragraphs "Description" and "Associated Technical Documentation". Compatibility with other aircraft/engine configurations shall be determined by the installer.

This certificate shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,  
Date of Issue: 26 April 2007

Massimo Mazzoletti  
Certification Manager  
Rotorcraft, Balloons & Airships



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

**CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO**  
(Supplemental Type Certificate)

**NÚMERO** 2006S12-08  
(Number)

**Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,**  
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

**é conferido ao (à): Integrated Flight Systems Corp.**  
is granted to:) 4607 B. Aircenter Circle  
Reno, Nevada 89502  
USA

**por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições**  
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)  
**especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.**  
(specified hereon, met the applicable airworthiness requirements.)

**Produto Original - Número do Certificado de Tipo:** 84 (FN 157).  
(Original Product - Type Certificate No:)

**Fabricante:** Eurocopter France.  
(Manufacturer:)

**Modelo(s):** AS 350 B.  
(Model(s):)

**DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO:**  
(Description of Type Design Change:)

Installation of a Belt-Driven Freon Air Conditioning System in accordance with Integrated Flight Systems Drawing List No. DL-9 (single Condenser blower), Rev. J, dated 5 Dec. 2003, or later approved revision or Drawing List No. DL-9-1 (Dual Condenser blower), Rev. NC, dated 1 Jan. 1992, or later approved revision.

This CHST validates in Brazil the STC # SH3509SW, issued by FAA (USA).

**LIMITAÇÕES E CONDIÇÕES:**  
(Limitations and Conditions:)

See continuation sheet for applicable data.

**DATAS:**  
(Dates of:)

**Do Requerimento:** 28 Aug. 2006  
(Application:)

**Da emissão:** 13 Dec. 2006  
(Issue:)

**Da reemissão:**  
(Reissue:)

  
**CLÁUDIO PASSOS SIMÃO**

Gerente Geral, Certificação de Produtos Aeronáuticos  
(Manager, Aeronautical Products Certification)

  
**MILTON ZUANAZZI**  
Diretor-Presidente  
(Director President)



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

**CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO**  
(Supplemental Type Certificate)

**NÚMERO** 2006S12-09  
(Number)

**Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,**  
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

**é conferido ao (à): Integrated Flight Systems Corp.**  
is granted to:) 4607 B. Aircenter Circle  
Reno, Nevada 89502  
USA

**por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições**  
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)  
**especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.**  
(specified hereon, met the applicable airworthiness requirements.)

**Produto Original - Número do Certificado de Tipo:** 8812 (ANAC).  
(Original Product - Type Certificate No:)

**Fabricante:** Eurocopter France.  
(Manufacturer:)

**Modelo(s):** AS 350 B1, AS 350 B2, AS 350 B3, AS 350 BA and.  
(Model(s):) EC 130 B4.

**DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO:**  
(Description of Type Design Change:)

Installation of a Belt-Driven Freon Air Conditioning System in accordance with Integrated Flight Systems Drawing List No. DL-9 (single Condenser blower), Rev. J, dated 5 Dec. 2003, or later approved revision or Drawing List No. DL-9-1 (Dual Condenser blower), Rev. NC, dated 1 Jan. 1992, or later approved revision.

This CHST validates in Brazil the STC # SH3509SW, issued by FAA (USA).

**LIMITAÇÕES E CONDIÇÕES:**  
(Limitations and Conditions:)

See continuation sheet for applicable data.

**DATAS:**  
(Dates of:)

**Do Requerimento:** 28 Aug. 2006  
(Application:)

**Da emissão:** 13 Dec. 2006  
(Issue:)

**Da reemissão:**  
(Reissue:)

**CLÁUDIO PASSOS SIMÃO**  
Gerente Geral, Certificação de Produtos Aeronáuticos  
(Manager, Aeronautical Products Certification)

**MILTON ZUANAZZI**  
Diretor-Presidente  
(Director President)



## AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL

Folha de Continuação ao  
(Continuation Sheet to)

### CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO (Supplemental Type Certificate)

**NÚMERO 2006S12-09**  
(Number)

**LIMITAÇÕES E CONDIÇÕES:**  
(Limitations and Conditions:)

- I. The approval of this type design change should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that aircraft.
- II. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- III. This installation is approved only for VFR operations.
- IV. Operation must be performed in accordance with the FAA approved Helicopter Flight Manual Supplement (FMS), as applicable:
  - Model AS 350 B1, requires FMS, Rev. A, dated 30 Apr. 1991 or later FAA approved revision;
  - Model AS 350 B2, requires FMS, Rev. NC, dated 30 Apr. 1991 or later FAA approved revision;
  - Model AS 350 B3, requires FMS, Rev. NC, dated 8 Feb. 1999 or later FAA approved revision;
  - Model AS 350 BA, requires FMS, Rev. NC, dated 15 May 1992 or later FAA approved revision;
  - Model EC 130 B4, requires FMS, Rev. NC, dated 6 Feb. 2004 or later FAA approved revision.
- V. For the Instructions for Continued Airworthiness, see the Operators Manual supplied with the Air Conditioning Kits.
- VI. A copy of this Certificate and the Supplement referred on item IV above shall be maintained as part of the permanent records of the modified aircraft.

----- END -----

*Paulo* *[Signature]*

Transport Canada

Home > [NICO Search](#) > [NAPA Issued Certificates Online: Certificate Detail](#)

**NAPA Issued Certificates Online: Certificate Detail**

To Return to the previous page, please hit the back button on your browser.

Transport Canada has accepted the foreign certificate without issuing its own certificate. To search for the accepted certificate on the U.S. FAA site click [here](#)  
NICO Certificates are for information only and are not intended to replace their legal entity, namely their paper equivalents.

**Certificate Information**

Certificate #:		Approval Date:	
Issue #:	0	Issue Date:	1985-09-20
Foreign #:	SH03509SW	Region:	Ontario

**State of Design Responsibility:**

**Description:**

INSTALLATION OF A BELT-DRIVEN FREON AIR CONDITIONING SYSTEM

**Holder:**

Integrated Flight Systems Inc.  
4655 Aircenter Circle  
Reno  
NEVADA  
89502  
UNITED STATES OF AMERICA

Make	Model(s)
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Transport Canada has accepted the foreign certificate without issuing its own certificate. To search for the accepted certificate on the U.S. FAA site click [here](#)  
NICO Certificates are for information only and are not intended to replace their legal entity, namely their paper equivalents.

If you do not have the required software on your system to view the above file(s), you can view the file(s) by downloading the appropriate software. [View alternative format software list.](#)

# *Certificates of Approval*

*Number* STC-490-OSA

1. *Kind of aircraft* : Rotorcraft

2. *Model of aircraft* : Aerospatiale Model AS350B 型

3. *Airworthiness category* : Rotorcraft, Normal Category

4. *Content of Supplemental Type Design* : Air Conditioning System is installed in accordance with STC NO,SH3509SW

5. *Name or title of designer* : RSG Products Inc.

6. *Address of designer* : 3900 Falcon Way West Hanger 16S Fort Worth, TX, USA

7. *Remarks :*

Classification of Work : Minor Alteration

FAA STC Number : FAA STC No.SH3509SW

(Date of Issuance: September 20,1985.

Date Amended: September 14,2015)

8. *This is to certify that the above-mentioned supplemental type design complies with the standards of Article 10 paragraph 4 of Civil Aeronautics Law of Japan.*

Chief Airworthiness Engineer,  
West Japan Civil Aviation Bureau



*Date of issue :* Nov 27, 2019

Note: This is a translation of the Supplemental Type Certificate originally issued in Japanese and shall not be construed as an official text.

承認書

第 STC-490-OSA 号

1	航空機の種類	回転翼航空機
2	航空機の型式	アエロスパシアル式 AS350B 型
3	航空機の耐空類別	回転翼航空機 普通 N
4	追加型式設計の内容	Air Conditioning System is installed in accordance with STC NO,SH3509SW
5	設計者氏名又は名称	RSG Products Inc.
6	設計者住所	3900 Falcon Way West Hanger 16S Fort Worth,TX,USA
7	備考	作業区分：小改造 米国 STC：FAA STC No,SH3509SW (1985 年 9 月 20 日承認、2015 年 9 月 14 日改定)
8	上記の追加型式設計は、航空法（昭和 27 年法律第 231 号）第 10 条第 4 項の基準に適合するものであることを承認する。	

大阪航空局  
前任航空機検査官



発行年月日 令和 1 年 11 月 27 日



# *Certificates of Approval*

*Number* STC-490-OSA

1. *Kind of aircraft* : Rotorcraft

2. *Model of aircraft* : Aerospatiale Model AS350B 型

3. *Airworthiness category* : Rotorcraft, Normal Category

4. *Content of Supplemental Type Design* : Air Conditioning System is installed in accordance with STC NO,SH3509SW

5. *Name or title of designer* : RSG Products Inc.

6. *Address of designer* : 3900 Falcon Way West Hanger 16S Fort Worth, TX, USA

7. *Remarks :*

Classification of Work : Minor Alteration

FAA STC Number : FAA STC No.SH3509SW

(Date of Issuance: September 20,1985.

Date Amended: September 14,2015)

8. *This is to certify that the above-mentioned supplemental type design complies with the standards of Article 10 paragraph 4 of Civil Aeronautics Law of Japan.*

Chief Airworthiness Engineer,  
West Japan Civil Aviation Bureau



*Date of issue :* Nov 27, 2019

Note: This is a translation of the Supplemental Type Certificate originally issued in Japanese and shall not be construed as an official text.



承認書

第 STC-490-OSA 号

1	航空機の種類	回転翼航空機
2	航空機の型式	アエロスパシアル式 AS350B 型
3	航空機の耐空類別	回転翼航空機 普通 N
4	追加型式設計の内容	Air Conditioning System is installed in accordance with STC NO,SH3509SW
5	設計者氏名又は名称	RSG Products Inc.
6	設計者住所	3900 Falcon Way West Hanger 16S Fort Worth,TX,USA
7	備考	作業区分：小改造 米国 STC：FAA STC No,SH3509SW (1985 年 9 月 20 日承認、2015 年 9 月 14 日改定)
8	上記の追加型式設計は、航空法（昭和 27 年法律第 231 号）第 10 条第 4 項の基準に適合するものであることを承認する。	

大阪航空局  
前任航空機検査官



発行年月日 令和 1 年 11 月 27 日

飛行規程承認書  
Approval of Flight Manual

航空機 Aircraft	種類 Classification	回転翼航空機 Rotor craft		
	型式 Type and Model	アエロスパシアル式 AS350B 型 Aerospatiale AS350B		
	適用 Applicability	-----		
	型式証明番号 Type Certificate Number	-----		
	国籍記号及び登録記号 Nationality and Registration mark	-----	製造番号 Aircraft Serial Number	-----
飛行規程 Flight Manual	管理責任者 Administration personnel	RSG Products Inc.		
	管理責任者による種類 Classification by administration personnel	<input type="checkbox"/> TC	<input type="checkbox"/> 原 Original	<input type="checkbox"/> 個別 Individual <input checked="" type="checkbox"/> STC
	構成による区分 Category by construction	<input type="checkbox"/> 基本 Basic (Status: )		
		<input checked="" type="checkbox"/> 追加 Supplement (表題 : Dual Condenser Document Number:19-350-21-001 -031)		
承認事由 Approval reason	<input type="checkbox"/> 型式証明 Type Certificate (TC) <input type="checkbox"/> 追加型式設計承認 Supplemental Type Certificate (STC) <input type="checkbox"/> 耐空証明 (新規) Airworthiness Certificate (Initial) <input type="checkbox"/> 修理改造検査 Inspection for repair and alteration	<input type="checkbox"/> 型式設計変更 Amendment TC <input type="checkbox"/> 追加型式設計変更承認 Amendment STC <input type="checkbox"/> 耐空証明 (更新) Airworthiness Certificate(Renewal) <input checked="" type="checkbox"/> その他 Others		

上記の航空機の飛行規程について承認する。  
Flight Manual for the above-mentioned aircraft is hereby approved.

大阪航空局  
前任航空機検査官  
Chief Airworthiness Engineer,  
West Japan Civil Aviation Bureau



承認年月日 : 2019年11月27日  
Date of approval : Nov, 27, 2019

国 土 交 通 省

追 加 型 式 設 計 承 認 書

第 STC - 545 - OSA 号

1 航空機の種類 回転翼航空機

2 航空機の型式 エアバス・ヘリコプターズ式 AS350B3 型

3 航空機の耐空類別 回転翼航空機 普通 N

4 追加型式設計の内容 Installation of a Single and Dual Condenser Blower Air Conditioning System

5 設計者氏名又は名称 RSG Products Inc.

6 設計者住所 West Lane Suite 100 Saginaw TX 76131

7 備考

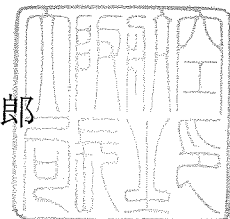
適用基準：エアバス・ヘリコプターズ式 AS350B3 型の型式証明データシート No.49 Rev.11 (令和 2 年 6 月 12 日付) に規定される基準

作業区分：小改造

参考：FAA STC No.SH3509SW (2021 年 11 月 29 日付) と同等である。  
制限事項等については、上記 FAA Supplemental Type Certificate の  
” Limitations and Conditions” に従うこと。

8 上記の追加型式設計は、航空法（昭和 27 年法律第 231 号）第 10 条第 4 項の基準に適合するものであることを承認する。

大阪航空局長 小池 慎一郎



発行年月日 令和 4 年 4 月 11 日

*Ministry of Land, Infrastructure, Transport and Tourism*

# Supplemental Type Certificate

*Number* STC-545-OSA

1. *Kind of aircraft* : Rotorcraft

2. *Model of aircraft* : Airbus Helicopters model AS350B3

3. *Serviceability category* : Rotorcraft, Normal Category

4. *Content of Supplemental Type Design* : Installation of a Single and Dual Condenser Blower Air Conditioning System

5. *Name or title of designer* : RSG Products Inc.

6. *Address of designer* : 440 West Lane Suite 100 Saginaw TX 76131

7. *Remarks* :

Certification Basis : Certification basis specified on Japan Type Certificate Data Sheet No.49 Rev.11 (June 12, 2020) for Airbus Helicopters model AS350B3.

Classification of Work : Minor Alteration

Reference : Equivalent to FAA STC No.SH3509SW dated November 29, 2021.

The installer must follow "Limitations and Conditions" described in the above FAA Supplement Type Certificate

8. *This is to certify that the above-mentioned supplemental type design complies with the standards of Article 10 paragraph 4 of Civil Aeronautics Law of Japan.*

KOIKE Shinichiro

Director-General, West Japan Civil Aviation Bureau

*Date of issue* : April 11, 2022

Note: This is a translation of the Supplemental Type Certificate originally issued in Japanese and shall not be construed as an official text.



Your Ref. :  
Our Ref. : CAAM/AW/VSTC/2021/042  
Date : 14 January 2022

**RSG Products Inc.**  
440 West Lane Suite 100  
Saginaw TX, 76131  
USA

Attn: **Mr. Greg Thompson**  
Quality Manager

Dear Sir,

### **VALIDATION OF FAA SUPPLEMENTAL TYPE CERTIFICATE NO. SH3509SW**

This is in reference to Federal Aviation Administration (FAA) letter ref 7F0-21-13814 requesting for validation of FAA Supplemental Type Certificate (STC) No. **SH3509SW** date reissued 29 November 2021.

This Validation STC Acceptance letter certifies that the design change specified below has been validated in accordance with Regulation 24 of Malaysia Civil Regulation (MCA) 2016 and Civil Aviation Directive 8108 and it is acceptable for Malaysian airworthiness certification:-

<b>STC Validation Reference No</b>	:	<b>VSTC/2021/042</b>
<b>STC Holder</b>	:	<b>RSG Products Inc.</b>
<b>STC Reference Number</b>	:	<b>SH3509SW date reissued 29 November 2021 or later FAA approved revision</b>
<b>National Aviation Authority / State of Design</b>	:	<b>FAA / USA</b>
<b>Description of Design Change</b>	:	<b>Installation of a single and dual condenser blower air conditioning system.</b>
<b>STC applicable to Aircraft/ Engine type or model</b>	:	<b>AS350 B, B2, B3 &amp; BA</b>
<b>CAAM Type Acceptance</b>	:	<b>CAAM type acceptance through Certificate of Airworthiness issuance</b>

#### **Limitations and Conditions:-**

1. Installation of a single and dual condenser blower air conditioning system in accordance with Integrated Flight System (IFS) Master Drawing List (MDL), Document No. DL-9 (Vapor Cycle Air Conditioning System with Belt Driven Compressor Utilizing Refrigerant R134a), Rev. T, dated 1/09/2014, or later FAA approved revision.

2. For Single Condenser Configurations the following FAA Approved Flight Manual Supplements (FMSs) and revisions, or later FAA approved revisions, are required accordingly:

AS350B: FMS 19-350-21-002-011, Rev. D, dated 17/11/2014.

AS350B2: FMS 19-350-21-006-011, Rev. B, dated 17/11/2014.

AS350B3: FMS 19-350-21-008-011, Rev. B, dated 17/11/2014.

AS350BA: FMS 19-350-21-010-011, Rev. B, dated 17/11/2014.

3. For Dual Condenser Configurations the following FAA approved FMSs and revisions, or later FAA approved revisions, are required accordingly:

AS350B: FMS 19-350-21-001-031, Rev. D, dated 17/11/2014.

AS350B2: FMS 19-350-21-005-031, Rev. B, dated 17/11/2014.

AS350B3: FMS 19-350-21-007-031, Rev. B, dated 17/11/2014.

AS350BA: FMS 19-350-21-009-031, Rev. B, dated 18/08/2015.

4. Instructions for Continued Airworthiness, IFS Document No. IFSE-0007, Rev. C, dated 12/8/2010, or later revision is required.
5. The installer must determine whether this design change is compatible with previously approved modification.
6. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.
7. A copy of this Certificate must be included in the permanent records of each airplane modified in accordance with this STC.
8. All other limitations and conditions as stated in this STC.

### **Obligations of the STC Holder Post Validation:-**

The STC holder shall provide –

1. Mandatory continuing airworthiness instruction to the CAAM;
2. Instruction for continuing airworthiness including its changes to all operators of a product incorporating the STC;

NOTE: STC holder should provide adequate access to the documents related to the airworthiness of aircraft on the Malaysian aircraft register.

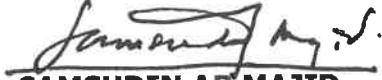
3. A written permission to the operator to embody the STC;
4. Notification to the CAAM if there is any major significant changes to the STC before embodiment on future Malaysian registered aircraft; and
5. Notification to the CAAM on changes to organisation's name or location.

This acceptance letter shall remain valid unless otherwise cancelled, superseded or revoked by the Civil Aviation Authority of Malaysia (CAAM).

Thank You,

**"BERKHIDMAT UNTUK NEGARA"**

Yours faithfully,



**SAMSUDIN AB MAJID**

Airworthiness Division

For Civil Aviation Authority of Malaysia

**Cc : Mr. John Felton**  
Aircraft Certification Office, FAA  
[john.felton@faa.gov](mailto:john.felton@faa.gov)

**Change record:**

Rev.	Date	Description of change
0	14 Jan 2022	Initial issue

GOVERNMENT OF INDIA  
OFFICE OF THE  
DIRECTOR GENERAL OF CIVIL AVIATION  
OPP. SAFDARJUNG AIRPORT,  
NEW DELHI – 110 003



भारत सरकार  
महानिदेशक नागर विमानन  
का कार्यालय  
सफदरजंग एरपोर्ट के सामने  
नई दिल्ली – ११० ००३

Aircraft Engineering Directorate  
Telephone/ दूरभाष :  
E-mail/ ई-मेल : meenu.dgca@nic.in

विमान अभियांत्रिकी निदेशालय  
Reference No./ संख्या : IN22ASA015  
Dated/ दिनांक : 17th March 2022

To,  
M/s RSG Products Inc.  
440 West Lane Suite 100  
Saginaw TX, 76131

**Subject: Acceptance of FAA Supplemental Type Certificate (STC) SH3509SW dated 29.11.2021 for installation of a Single and Dual Condenser Blower Air Conditioning System on Airbus Helicopter model: AS 350B3.**

Reference: (1) M/s FAA letter dated 11<sup>th</sup> Jan, 2022;  
(2) M/s RSG Products Inc vide egca Application id:STC/RSG Products Inc/AS350B3/2022/000056;  
(3) Email correspondences.

Sir/Madam,

Reference may please be made to the points under reference (1) through (3) on the above subject.

Your application for acceptance of FAA Supplemental Type Certificate (STC) SH3509SW dated 29<sup>th</sup> November, 2021 for installation of a Single and Dual Condenser Blower Air Conditioning System on Airbus Helicopter model AS 350B3 has been examined as per CAR Section 6, Series A, Part II and found satisfactory.

Based on the certification documents submitted, it is stated that installation of a Single and Dual Condenser Blower Air Conditioning System on Airbus Helicopter model AS 350B3 certified vide FAA Supplemental Type Certificate (STC) SH3509SW dated 29<sup>th</sup> November, 2021 is considered acceptable to DGCA from design point of view subject to the following conditions:

1. The installation must conform to type design change data as specified in the FAA STC mentioned above;
2. Limitations, conditions and procedures specified in the STC, approved RFM shall be strictly adhered to;
3. The aircraft shall be fitted with mandatory instruments and equipment as per applicable Civil Aviation Requirements (CARs) of DGCA, India that are available on website [www.dgca.gov.in](http://www.dgca.gov.in), if required as a result of this design change.

This letter of STC acceptance is issued under the provisions of Rule 49G of The Aircraft Rules, 1937 with the approval of the competent authority and shall remain in force until cancelled, superseded or revoked by the DGCA, India.

Yours faithfully

(Meenu Kapil)  
Director (AED)

For Director General of Civil Aviation

**Copy to:**

1. DAW, DGCA Head Quarters, New Delhi – 110003, with a request to provide feedback/data to AED, pertaining to faults/malfunctions/service difficulties experienced by any Indian operator after incorporation of the said STC on AS 350B3.
2. FAA, Aircraft Certification Service Compliance & Airworthiness Division Fort Worth ACO Branch 10101 Hillwood Parkway Fort Worth, TX 76177 (Kind Attn: Ms. Sarah F Cox, Action Manager)
3. M/s Vman Aviation Services IFSC Private Ltd., Office No. 1607, 16<sup>th</sup> Floor, Signature Building, Block 13-B, Zone 1, GIFT Sez, GIFT City, Gandhinagar, Gujarat, India-382 355. (Kind Attn: Mr. Shubh Prakash, Manager-CAMO)





Republic of the Philippines  
**CIVIL AVIATION AUTHORITY OF THE PHILIPPINES**

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21 June 2022

**MR. GREG THOMPSON**

*Quality Manager*

**RSG Products Inc.**

440 West Lane Suite 100

Saginaw TX, 76131

[gthompson@rotorcraftservices.com](mailto:gthompson@rotorcraftservices.com)

**SUBJECT: ACCEPTANCE OF FEDERAL AVIATION ADMINISTRATION (FAA)  
SUPPLEMENTAL TYPE CERTIFICATE (STC) SH3509SW FOR RSG  
PRODUCTS INC.**

Dear **Mr. Thompson**:


This has reference to the Federal Aviation Administration's letter **7F0-22-6068**, requesting this Authority to approve/accept FAA STC No. SH3509SW installation of a Single and Dual Condenser Blower Air Conditioning System in accordance with Integrated Flight Systems (IFS) Master Drawing List (MDL), Document No. DL-9 (Vapor Cycle Air Conditioning System with Belt Driven Compressor Utilizing Refrigerant R134a), Rev. T, dated 09/01/2014, or later FAA approved revision.

Please be informed that STCs approved by the State of Design to be installed on an aircraft not under or will not be under an Aircraft Operator Certificate (AOC) are automatically acceptable in the Philippines. If the STC is to be installed on an aircraft under or will be under an AOC, the STC must undergo validation process prior to approval as per Memorandum Circular No. 18-12 Section 2.1.5, PCAR Part 5.6.1.9 and 9.4.1.10.

If you have any concerns regarding this matter, please do not hesitate to contact the CAAP - Engineering and Aircraft Registration at email: [eard@caap.gov.ph](mailto:eard@caap.gov.ph) and tel. no. (632) 7944-2165.

Very truly yours,

By Authority of the Director General:

  
**CAPTAIN DONALDO A. MENDOZA**  
Deputy Director General for Operations /  
OIC – Flight Standards Inspectorate Service

cc: FAA - [john.felton@faa.gov](mailto:john.felton@faa.gov)



УКРАЇНА

ДЕРЖАВНА Авіаційна  
СЛУЖБА УКРАЇНИ



UKRAINE

STATE AVIATION  
ADMINISTRATION OF UKRAINE

## Додатковий сертифікат типу

(Імпорт)

### Supplemental Type Certificate

(Import)

**DTB0197**

Цей сертифікат, оформлений згідно з  
Авіаційними правилами України  
АПУ-21(Part-21) та виданий

This Certificate established in  
accordance with Aviation Regulation of  
Ukraine ARU-21(Part-21) and issued to

RSG Products Inc., 440 West Lane Suite 100,  
76131, Saginaw, TX, USA

засвідчує, що зміна типової конструкції виробу, який вказаний нижче, із зазначеними обмеженнями та умовами, відповідає вимогам відповідного сертифікаційного базису та вимогам з охорони навколишнього середовища у разі експлуатації виробу у межах умов та обмежень, що вказані нижче:

certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable certification basis and environmental protection requirements when operated within the conditions and limitations specified below:

Номер сертифіката типу основного виробу:  
Original Product Type Certificate Number:

Дивись на звороті.  
See overleaf.

Розроблено:

Make:

Дивись на звороті  
See overleaf.

Модель:

Model:

Дивись на звороті,  
See overleaf.

Опис зміни типової конструкції:

Description of Type Design Change:

Встановлення системи кондиціонування повітря з одинарним або подвійним вентилятором конденсатора відповідно до Integrated Flight Systems (IFS) Головною переліку креслень, Документ No. DL-9 (Система кондиціонування повітря випарного циклу з використанням холодоагенту R134a та з компресором з ремінним приводом), Ревізія Т, від 01 жовтня 2014 чи більш пізні схвалені FAA ревізії у відповідності з Додатковим Сертифікатом типу FAA № SH3509SW.

Installation of a Single and Dual Condenser Blower Air Conditioning System in accordance with Integrated Flight Systems (IFS) Master Drawing List (MDL, Document No. DL-9 (Vapor Cycle Air Conditioning System with Belt Driven Compressor Utilizing Refrigerant R134a), Rev.T, dated 01 October 2014, or later FAA approved revision in accordance with FAA Supplemental Type Certificate No. SH3509SW.

Обмеження та умови:

Limitations and Conditions:

Як зазначено у додатку до цього сертифіката.

As specified in the Addendum to this certificate.

Дія цього сертифіката та супровідних матеріалів, які є підставою для схвалення та становлять невід'ємну частину сертифіката, не обмежена часом і може бути тимчасово припиненою чи скасованою Державною авіаційною службою України у випадках, які передбачені законодавством України.

This certificate and the supporting data, which is the basis for approval and integral part of the certificate, is not time limited but can be suspended or revoked by the State Aviation Administration of Ukraine in cases which are stipulated by the legislation of Ukraine.

Дата подачі заявки (дд.мм.рр.) 06.08.2020

Date of application (dd.mm.yy)

Дата перевидання (дд.мм.рр.)

Date of reissue (dd.mm.yy)

Дата видання (дд.мм.рр.) 09.10.2020

Date of issue (dd.mm.yy)

Дата доповнення (дд.мм.рр.)

Date of amendment (dd.mm.yy)

Голова  
Chairman



Олександр БІЛЧУК  
Oleksandr BILCHUK

AA №021145



**Додатковий сертифікат типу DTB0197 (продовження)**  
**(Імпорт)**  
**Supplemental Type Certificate DTB0197 (continuation)**  
**(Import)**

**Номер сертифіката  
типу основного виробу:**  
Original Product Type  
Certificate Number:

TB 0020  
TB 0020

TB 0027  
TB 0027

**Розроблено:**

Make:

Aéroport International  
Marseille-Provence,  
13725 Marignane Cedex,  
France

Aéroport International  
Marseille-Provence,  
13725 Marignane Cedex,  
France

**Модель:**

Model:

EC 130 B4

AS 350 B2, AS 350 B3



Олександр БІЛЬЧУК  
Oleksandr BILCHUK

Голова Державної Авіаційної Служби  
України  
Chairman of the State Aviation  
Administration of Ukraine



# Додаток до додаткового сертифіката типу *Addendum to Supplemental Type Certificate*

## DTB0197

### Обмеження та умови:

*Limitations and Conditions:*

1) Визначення зміни типової конструкції:

1) *TypeDesignChangeDefinition:*

Головний перелік креслень, Документ No. DL-9 (Система кондиціювання повітря випарного циклу з використанням холодоагенту R134a та з компресором з ремінним приводом), Ревізія T, від 01 жовтня 2014, чи більш пізні схвалені FAA ревізії.

MasterDrawingList, Document No. DL-9 (Vapor Cycle Air Conditioning System with Belt Driven Compressor Utilizing Refrigerant R134a), Rev T, dated 01 October 2014, or later FAA approved revision.

2) Додаткові обмеження та умови експлуатації вертольотів визначені у додатках до керівництв:  
2) *Supplemental operation limitations and operation conditions for helicopters are determined in the Supplements to the manuals:*

Інструкції з підтримання льотної придатності (ICA)  
*Instruction for Continued Airworthiness (ICA)*

Документ IFS No. IFSE-0007, Ревізія C, від 12 серпня 2010 чи пізніші ревізії

IFS Document No. IFSE-0007, Rev. C, dated 12 August 2010, or later revision is required

Додатки до Льотного керівництва:

*Flight Manual Supplements:*

Для одиної конфігурації конденсатора відповідно до схвалених FAA Додатків до Льотного Керівництва та ревізій, чи пізніше схвалених FAA ревізій відповідно до:

For Single Condenser Configurations the following FAA Approved Flight Manual Supplements (FMSs) and revisions, or later FAA approved revisions, are required accordingly:

AS 350 B2: FMS 19-350-21-006-011, Ревізія B, від 17 листопада 2014  
FMS 19-350-21-006-011, Rev. B, dated 17 November 2014

AS 350 B3: FMS 19-350-21-008-011, Ревізія B, від 17 листопада 2014  
FMS 19-350-21-008-011, Rev. B, dated 17 November 2014

EC 130 B4: FMS від 06 лютого 2004  
FMS dated 06 February 2004

Для подвійної конфігурації конденсатора відповідно до схвалених FAA Додатків до Льотного Керівництва та ревізій, чи пізніше схвалених FAA ревізій відповідно до:

For Dual Condenser Configuration the following FAA Approved Flight Manual Supplements (FMSs) and revisions, or later FAA approved revisions, are required accordingly

AS 350 B2: FMS 19-350-21-005-031, Ревізія B від 17 листопада 2014  
FMS 19-350-21-005-031, Rev. B, dated 17 November 2014

AS 350 B3: FMS 19-350-21-007-031, Ревізія B від 17 листопада 2014  
FMS 19-350-21-007-031, Rev. B, dated 17 November 2014

3) Це схвалення застосовується тільки для типів/моделей авіаційної техніки, які зазначені в цьому додатковому сертифікаті типу (ДСТ). Перед тим, як виконати цю модифікацію, повинно бути встановлено, що взаємовплив між цією зміною та будь-якою іншою впровадженою модифікацією(ми) не буде несприятливо впливати на льотну придатність модифікованого виробу.

3) This approval is only applicable to the types/modelsofaeronauticalproductsspecifiedinthisSupplemental Type Certificate (STC). Prior to incorporating this modification must be established that interrelationship between this change and any other modification(s) incorporated will not adversely affect airworthiness of the modified product.

4) Це схвалення застосовується до повітряних суден (ПС), які внесені до Державного реєстру цивільних повітряних суден України. Застосування цього схвалення на ПС іноземної реєстрації відповідно до авіаційного законодавства держави реєстрації ПС.

4) This approval applies to the aircraft that have been entered in the State Register of Civil Aircraft of Ukraine. The applicability of this approval to foreign registered aircraft is in accordance with the aviation legislation of the aircraft's State of Registry.

**Перелік вертольотів, на які розповсюджується дія цього сертифіката**  
List of eligible helicopters

Які приведені у ДСТДТВ0197 (продовження) та модифіковані відповідно до FAA STC SH3509SW.

As specified in the STC DTB0197 (continuation) and modified according to FAA STC SH3509SW.

**Дата видання (дд.мм.рр.)**  
Date of issuance (dd.mm.yy)

09.10.2020

**Дата перевидання (дд.мм.рр.)**  
Date of reissue (dd.mm.yy)

-

**Дата доповнення (дд.мм.рр.)**  
Date of amendment (dd.mm.yy)

-

**Начальник управління сертифікації типу авіаційної техніки**  
Head of Aeronautical Products Type Certification Department

**Сергій ГРЕЗИН**

Sergii GREZIN