

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

Number SH5832SW

This Certificate issued to **RSG Products, Inc.
3900 Falcon Way West, Hangar 16S
Fort Worth, TX 76106**

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 29 of the Federal Aviation Regulations.*
*Certification basis is set forth in Type Certificate Data Sheet H10EU.

Original Product Type Certificate Number: H10EU

Make: Airbus Helicopters

Model: SA-365N, SA-365N1, AS-365N2, AS-365N3

Description of Type Design Change: Installation of Freon Air Conditioning System with Belt Driven Compressor in accordance with FAA Approved Integrated Flight Systems (formerly Consolidated Aire Systems) Drawing List, Report Number DL-1, Revision -, dated November 1, 1984, or later FAA approved revision.

Limitations and Conditions: FAA Approved Rotorcraft Flight Manual Supplement dated November 28, 1984, or later FAA approved revision is required. The installer must determine whether this design change is compatible with previously approved modifications. This approval should not be extended to rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship 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 rotorcraft. A copy of this certificate must be maintained as part of the permanent records for the modified rotorcraft. If the holder agrees to permit another person to use this certificate to alter the 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 12, 1984

Date of issuance: November 28, 1984

Date reissued: 1/19/1989; 2/24/1997; 1/18/2000;
8/22/2001; 8/21/2007; 4/16/2009; 8/26/2011;
8/15/2014

Date amended: 8/21/07; 6/30/2014

By direction of the Administrator



Waiya Yaf-Ed
(Signature)

Supervisor, Technical & Administrative Support Staff
Los Angeles Aircraft Certification Office
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional 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 the Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transfer) _____

(Number and street)

(City, State, and Zip code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____

(Number and street)

(City, State, and Zip code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

SUPPLEMENTAL TYPE CERTIFICATE

10059148

This Supplemental Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to:

RSG PRODUCTS, Inc.

**3900 FALCON WAY WEST, HANGAR 16S
FORT WORTH TX 76106
USA**

and 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 Type Certificate Number: EASA.R.105

Type Certificate Holder: AIRBUS HELICOPTERS

Type: SA 365/SA 366/AS 365/EC 155

Model: AS 365 N2/ AS 365 N3

SA 365 N/ SA 365 N1

Description of Design Change:

Installation of Freon Air Conditioning System with Belt Driven Compressor
(FAA Supplemental Type Certificate SH5832SW)

EASA Certification Basis:

The Certification Basis (CB) for the original product remains applicable to this certificate/ approval.
The requirements for environmental protection and the associated certified noise and/ or emissions levels of the original product are unchanged and remain applicable to this certificate/ approval.

See Continuation Sheet(s)

For the European Aviation Safety Agency

Date of Issue: 18 August 2016



Volker ARNSMEIER
Light Rotorcraft Section
Manager

10039497
SUPPLEMENTAL TYPE CERTIFICATE - 10059148 - RSG PRODUCTS, Inc. - 302312

Associated Technical Documentation:

FAA Approved Rotorcraft Flight Manual Supplement dated May 27, 2014

or later revisions of the above listed documents approved by EASA in accordance with EASA ED Decision 2004/04/CF (or subsequent revisions of this decision)" and/ or the Technical Implementation Procedures of EU/ USA Bilateral Agreement.

Drawing List, Report Number DL-1, Revision E, dated May 27, 2014.

Instructions for Continued Airworthiness, ICA-365N Revision A, dated December 16, 2013.

Limitations/Conditions:

Prior to installation of this design change it must be determined that the interrelationship between this design change and any other previously installed design change and/ or repair will introduce no adverse effect upon the airworthiness of the product.

- End -



CERTIFICADO SUPLEMENTAR DE TIPO
(Supplemental Type Certificate)

NÚMERO **2015S04-13**
(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): **RSG Products Inc.**
(Is granted to:) **3900 Falcon Way West, Hangar 16S**
 Fort Worth, TX 76106
 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: 8405 (ANAC).
(Original Product - Type Certificate No:)

Fabricante: **Airbus Helicopters**
(Manufacturer:)

Modelo(s): **SA 365 N, SA 365 N1, AS 365 N2 and AS 365 N3**
(Model(s):)

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

Installation of Air Conditioning System with Belt Driven Compressor in accordance with Integrated Flight Systems Master Drawing List, Report No. DL-1, Rev. E, dated 27 May 2014, or later approved revisions.

This CST validates in Brazil the STC No. SH5832SW, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

See continuation sheet for applicable data.

DATAS:
(Dates of:)

Do Requerimento: 30 Jan. 2015
(Application:)

Da emissão: 30 Apr. 2015
(Issuance:)

Da reemissão:
(Reissuance:)

Da emenda:
(Amendment:)

MÁRIO IGAWA
Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

DINO ISHIKURA
Superintendente de Aeronavegabilidade
(Airworthiness Superintendent)

NOTA:

(Note:)

- a) Este Certificado e os dados técnicos com base no quais ele foi emitido são válidos até que sejam cancelados, suspensos, revogados ou um prazo limite seja estabelecido pela Agência Nacional de Aviação Civil.
(This Certificate and the supporting technical data used for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Agência Nacional de Aviação Civil.)
- b) No caso de transferência de propriedade deste Certificado, o transferente deve preencher o quadro "Endosso de Transferência", e o adquirente deve enviar este Certificado à Gerência Geral de Certificação de Produto Aeronáutico para que seja reemitido em seu nome.
(In case of transfer of the property of this Certificate, the grantor should fill the blanks of "Transfer Endorsement", and the transferee must remit this Certificate to the Gerência Geral de Certificação de Produto Aeronáutico to permit reissuance of the Certificate in his name.)

ENDOSSO DE TRANSFERÊNCIA

(Transfer Endorsement)

Transfiro a propriedade deste Certificado Suplementar de Tipo para:

(I transfer the property of this Supplemental Type Certificate to:)

ADQUIRENTE

(Transferee)

Nome:

(Name:)

Rua:.....

(Street:)

CEP:.....**Cidade:**.....**Estado:**.....**País:**.....

(Zip:)

(City:)

(State:)

(Country:)

TRANSFERENTE

(Grantor)

Nome:

(Name:)

Rua:.....

(Street:)

CEP:.....**Cidade:**.....**Estado:**.....**País:**.....

(Zip:)

(City:)

(State:)

(Country:)

Data de Transferência:

(Date of Transfer:)

Assinatura do Transferente:.....

(Signature of the Grantor:)

Nome:.....

(Name:)

Cargo:.....

(Function:)



Folha de Continuação ao
(Continuation Sheet to)

CERTIFICADO SUPLEMENTAR DE TIPO
(Supplemental Type Certificate)

NÚMERO 2015S04-13
(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. Operation must be performed in accordance with FAA approved Rotorcraft Flight Manual Supplement - RFMS, document No. RFMS-365-00-01, Rev. B, dated 27 May 2014 or later approved revision.
- IV. Instructions for Continued Airworthiness (ICA), Report No. ICA-365N, Rev. A, dated 16 Dec. 2013 or later FAA accepted revision, is required for this installation.
- V. A copy of this Certificate and the Supplements referred on item III above shall be maintained as part of the permanent records of the modified aircraft.

-----END-----

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

विमानअभियांत्रिकीनिदेशालय

Telephone/

दूरभाष: 91-011-2462 3211

E-mail/ई-मेल: kaushik.dgca@nic.in

Reference No./ संख्या: DGCA-27014/38/2020-AED-

DGCA

Dated/ दिनांक: 09th September, 2020

To,

RSG Products, Inc,
3900 Falcon Way West, Hangar 16S,
Fort Worth, TX 76106

(Kind Attn: Mr. Greg Thompson)

Sub: Acceptance of FAA Supplemental Type Certificate STC No. SH5832SW dated 15/8/2014 for installation of a Freon Air conditioning System on Airbus Helicopters Model SA-365N.

References:

- I. FAA ref. letter dated 24/07/2019.
- II. Letter of Intent from Indian operator vide letter dated AAPL/LOI/RSG/2019 dated 24/04/2019 from Aryan Aviation PVT LTD.

Sir,

Reference may please be made to the above referred letters and subsequent correspondence this office had on the subject matter.

The certification documents pertaining to installation of a Freon Air conditioning System on Airbus Helicopters Model SA-365N have been examined and are considered satisfactory. Based on the information, documents and clarification provided, it is stated that the modification of Freon Air conditioning System installation certified vide FAA STC No. SH5832SW dated 15/8/2014 on Airbus Helicopters Model SA-365N is considered acceptable to DGCA from design view point 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 AFM 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, 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



(Kaushik Mukhopadhyay)
Deputy 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 Airbus Helicopters Model SA-365N.
(Kind Attn: Mrs. Tuhinanshu Sharma, Director).
2. FAA, Compliance & Airworthiness Division, Aircraft Certification Service, Fort Worth ACO Branch, AIR-7F0, 10101 Hillwood Parkway, Fort Worth, TX 76177.
(Kind Attn: Mr. Jim Grigg, Manager, Fort Worth ACO Branch).
3. M/s Aryan Aviation PVT LTD, Unit 402, ABW Tower, MG Road, Gurugram-122002, Haryana.
(Kind Attn: Mr. Sutender Kumar, Quality Manager).

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

विमानअभियांत्रिकीनिदेशालय

Telephone/

Reference No./ संख्या: DGCA-27014/52/2020-AED-

दूरभाष: 91-011-2462 3211

DGCA

E-mail/ई-मेल: kaushik.dgca@nic.in

Dated/ दिनांक: 03 November, 2020

To,

RSG Products, Inc,
3900 Falcon Way West, Hangar 16S,
Fort Worth, TX 76106

(Kind Attn: Mr. Greg Thompson)

Sub:Acceptance of FAA Supplemental Type Certificate STC No. SH5832SW dated 15/8/2014 for installation of a Freon Air conditioning System on Airbus Helicopters Model AS-365N2.

References:

- I. FAA ref. letter dated 24/07/2019.
- II. Letter of Intent from Indian operator vide letter no. AAPL/DGCA/AED/2020 dated 09/10/2020 from Aryan Aviation PVT LTD.

Sir,

Reference may please be made to the above referred letters and subsequent correspondence this office had on the subject matter.

The certification documents pertaining to installation of a Freon Air conditioning System on Airbus Helicopters Model AS-365N2 have been examined and are considered satisfactory. Based on the information, documents and clarification provided, it is stated that the modification of Freon Air conditioning System installation certified vide FAA STC No. SH5832SW dated 15/8/2014 on Airbus Helicopters Model AS-365N2 is considered acceptable to DGCA from design view point 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 AFM 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, 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



(Kaushik Mukhopadhyay)
Deputy 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 Airbus Helicopters Model AS-365N2.
(Kind Attn: Mrs. Tuhinanshu Sharma, DDG).
2. FAA, Compliance & Airworthiness Division ,Aircraft Certification Service, Fort Worth ACO Branch, AIR-7F0, 10101 Hillwood Parkway, Fort Worth, TX 76177.
(Kind Attn: Mr. Jim Grigg, Manager, Fort Worth ACO Branch).
3. M/s Aryan Aviation PVT LTD, Unit 402, ABW Tower, MG Road, Gurugram-122002, Haryana.
(Kind Attn: Mr. Sutender Kumar, Quality Manager).

Government of India
Civil Aviation Department
Office Of The
Directorate General of Civil Aviation
Aircraft Engineering Directorate
Opposite Safdarjung Airport
New Delhi - 110 003



भारत सरकार
नागर विमानन विभाग
महानिदेशक नागर विमानन का कार्यालय
सफदरजंग एयरपोर्ट के सामने
नई दिल्ली - ११० ००३

Phone:-91-11-2462 2500
E mail: suresh.dgca@nic.in

Reference
No.:

संख्या : 07-40/2017-AED

दिनांक : ३१/09/2017

Dated:

RSG Products, Inc,
3900 Falcon Way West, Hangar 16S,
Fort Worth, TX 76106

(Kind Attn: Mr. Shannon Weidler)

Sub: Acceptance of FAA Supplemental Type Certificate STC No. SH5832SW dated 15/8/2014 for installation of a Freon Air conditioning System on Airbus Helicopters Model AS-365N3.

References:

- I. FAA ref. letter dated 25/07/2017
- II. Letter of Intent from Indian operator M/s Pawan Hans Limited letter No PHL/CO/MAT/7013/1 dated 17-08-2017.

Sir,

Reference may please be made to the above referred letters and subsequent correspondence this office had on the subject matter.

The certification documents pertaining to installation of a Freon Air conditioning System on Airbus Helicopters Model AS-365N3 have been examined and are considered satisfactory. Based on the information, documents and clarification provided, it is stated that the modification of Freon Air conditioning System installation certified vide FAA STC No. SH5832SW dated 15/8/2014 on Airbus Helicopters Model AS-365N3 is considered acceptable to DGCA from design view point 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 AFM shall be strictly adhered to;
3. The Indian operator shall provide to AED quarterly feedback/data on the Freon Air conditioning System installation pertaining to all faults/malfunctions/service difficulties/repairs/part replacements, etc.

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



(S. K Singh)
Director (AED)
for Director General of Civil Aviation

Copy to:

1. DAT, DGCA Head Quarters, New Delhi – 110003.
2. DAW, DGCA Head Quarters, New Delhi – 110003.
3. O/o DDG, DGCA Western Region, Mumbai-400029.
4. FAA, Compliance & Airworthiness Division ,Aircraft Certification Service, Fort Worth ACO Branch, AIR-7F0, 10101 Hillwood Parkway, Fort Worth, TX 76177.
(Kind Attn: Mr. Jim Grigg, Manager, Fort Worth ACO Branch).
5. M/s Pawan Hans Ltd. C-14, Sector-1, Noida-201301, Distt. Gautam Budh Nagar, Uttar Pradesh.
(Kind Attn: Mr. Vijay M Pathiyan, HOD Mats & Procurement).
6. M/s Airbus Group India Private Limited, 5th Floor, West Wing, Worldmark 1, Aerocity, New Delhi 110037.
(Kind Attn: Mr. Rajan Raman, Director-Technical, Support services).
-To arrange for familiarisation of AED officials once the modification is incorporated on the type helicopter.