

Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA590NW

*This certificate, issued to*

**Kenmore Air Harbor, Inc.  
6321 NE 175<sup>th</sup> Street  
Kenmore, WA 98028**

*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 Part 10 of the Federal Aviation Regulations.*

<i>Original Product—Type Certificate Number:</i>	A-806
<i>Make:</i>	Viking Air Limited
<i>Model:</i>	DHC-2 Mk I

*Description of the Type Design Change:* Installation of Hartzell HC-B3R30-1/R10152-5 ½ propeller, governor, and spinner on Pratt and Whitney R-985 series engines in accordance with Hartzell Propeller Owner's Manual 167.

Note: No changes are deemed necessary to Viking Air Limited Flight Manual PSM 1-2-1 as a result of this change.

*Limitations and Conditions:* Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model series unless the installer determines that the relationship between this change and any other previously incorporated approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. This approval is also extended to in the above models with EDO model 679-4930 seaplane floats. A copy of this certificate must be maintained as part of the permanent records for the modified aircraft.

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.

(See Continuation Sheet Page 3 of 3 Pages)

*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:* April 11, 1978

*Date reissued:*

*Date of issuance:* April 14, 1978

*Date amended:* June 9, 1978; November 24, 2014



*By direction of the Administrator*

(Signature)

Manager, Seattle 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.**

**This certificate may be transferred in accordance with FAR 21.47.**

United States of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

## (Continuation Sheet)

*Number* **SA590NW**

**Kenmore Air Harbor, Inc.**

*Issued:* April 14, 1978

*Reissued:*

*Amended:* June 9, 1978; November 24, 2014

*Limitations and Conditions continued:*

This approval is also extended to installation on those DHC-2 Mk I airplanes equipped with EDO model 679-4930 seaplane floats installed in accordance with either STC SA182WE or SA1913WE. A copy of this Certificate and addendum No. SA398NW shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA590NW

The conditions and limitations of the original specifications apply except as follows:

This Addendum which is part of Supplemental Type Certificate No. SA398NW, prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of Civil Air Regulations Part 10. A copy of this Addendum shall be maintained as part of the modified aircraft permanent records.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Kenmore Air Harbor, Inc.

DEHAVILLAND DHC-2 Mk I (L-20A) BEAVER (NORMAL CATEGORY) AS MODIFIED BY STC SA590NW

Engine: Pratt and Whitney R-985, SB-3 (See Aircraft Specification No. A-806, Item 301, for optional engines.)

Fuel: 80/87 octane minimum grade aviation gasoline.

Engine Limits: For all operations Sea Level 36.5" Hg. 2300rpm (450 HP) Straight line manifold pressure variation with altitude. 3500 feet 35.5" Hg. 2300rpm (450).

Propeller and

Propeller Limits: Hartzell 3 Blade:

Hub Model: HC-B3R30-1

Blade Model: R10152-5 1/2

Diameter: 95 1/2". No cutoff permitted.

Pitch Settings at 30" sta.: 38.1 degree High; 15 degree Low

Governor: Hartzell C-3

Spinner: Hartzell 836-32S(R, PR, SR, or SPR), 104368, 104368(P)

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