

No Airport?

No Runway?

No Problem!



The Next Generation “Super Goose”

by Antilles Seaplanes LLC



Antilles Seaplanes Model G-21G Specifications & Descriptions

General Description

All information herein applies to the Antilles Seaplanes Model G-21G “Super Goose” - a high wing, twin turbine powered, ten-seat, amphibious airplane.

Certification Information	
Manufacturer & Model Number	Antilles Seaplanes G-21G
Name	“Super Goose”
FAA Type Certificate Data Sheet	4A24
Approved Operations	Single Pilot, Day, Night, VFR, IFR
Known Icing Conditions	Not Certified

Design Weights & Capacities		
Max. Gross Take-Off Weight	5,670 kg	12,500 lbs
Max. Landing Weight (Land)	5,440 kg	12,000 lbs
Max. Landing Weight (Water)	5,670 kg	12,500 lbs
Basic Empty Weight*	3,175 kg	7,000 lbs
Useful Load*	2,450 kg	5,500 lbs
*NOTE: Basic Empty Weight & Useful Load are approximate; actual weights will be aircraft specific.		

Dimensions		
Wing		
Span (floats up)	15.5 m	50.9ft
Span (floats down)	14.6 m	47.9 ft
Area (not including floats)	35.8 m ³	385 sq ft
Fuselage		
Length (overall)	12.1 m	39.6 ft
Height (wheels down, aircraft level)	4.6 m	15.0 ft
Cabin		
Height (maximum)	170 cm	67 in
Width (maximum)	137 cm	54 in
Length (maximum)	33 cm	130 in
Cabin Volume (approximate)	6.9 m ³	245 cu ft
Main Entry Door (left side)		
Height	89 cm	35 in
Width	53 cm	21 in
Emergency Hatch (right side)		
Height	61 cm	24 in
Width	76 cm	30 in
Forward Baggage Area		
Height	140 cm	55 in
Width	145 cm	57 in
Length	124 cm	49 in
Volume	2.3 m ³	80 cu ft
Aft Baggage Area		
Height	142 cm	56 in
Width	127 cm	50 in
Length	119 cm	47 in
Volume	2 m ³	70 cu ft

Fuel Capacity		
Standard		
(2 ea) 110 US Gal Inboard Main Tanks	833 Liters	220 US Gal
(2 ea) 125 US Gal Outboard Aux Tanks	946 Liters	250 US Gal
Optional		
(1 ea) Center Section Aux Tank	439 Liters	116 US Gal
Total		
Combined Total Fuel Capacity	2,218 Liters	586 US Gal

Powerplants	
Pratt & Whitney Canada Free Turbine Engines	PT6A-34 (limited to 680 shp)
Hartzell Constant Speed, 3 Blade Props	HC-B3TN-3DY with T10178NB-5 Blades
Hartzell Propeller Spinners	C-3065-P
Starter-Generators (200 amps min)	TBD

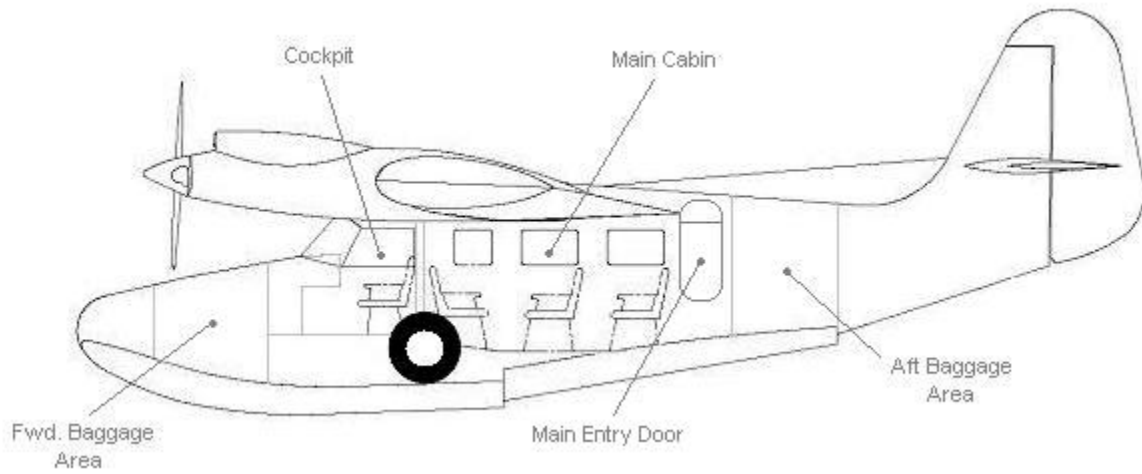


Figure 1. Antilles Seaplanes Model G-21G – Side View (Profile)

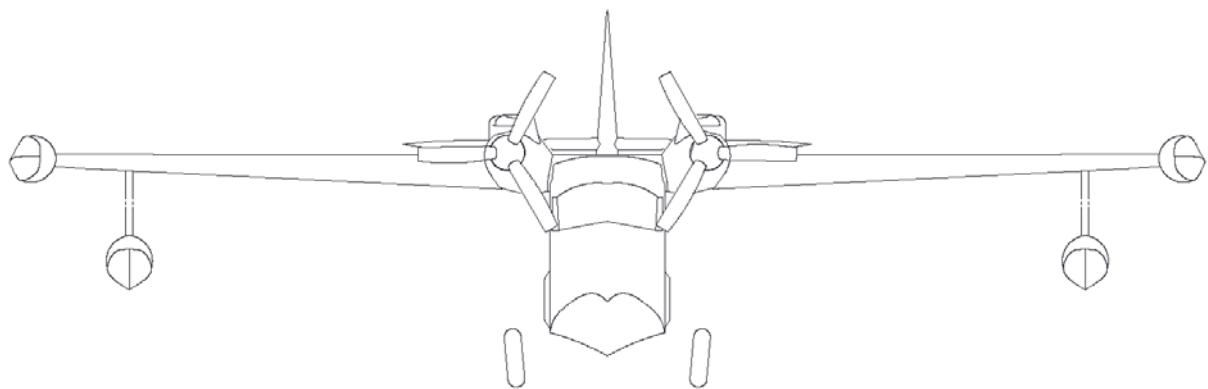


Figure 2. Antilles Seaplanes Model G-21G – Front View

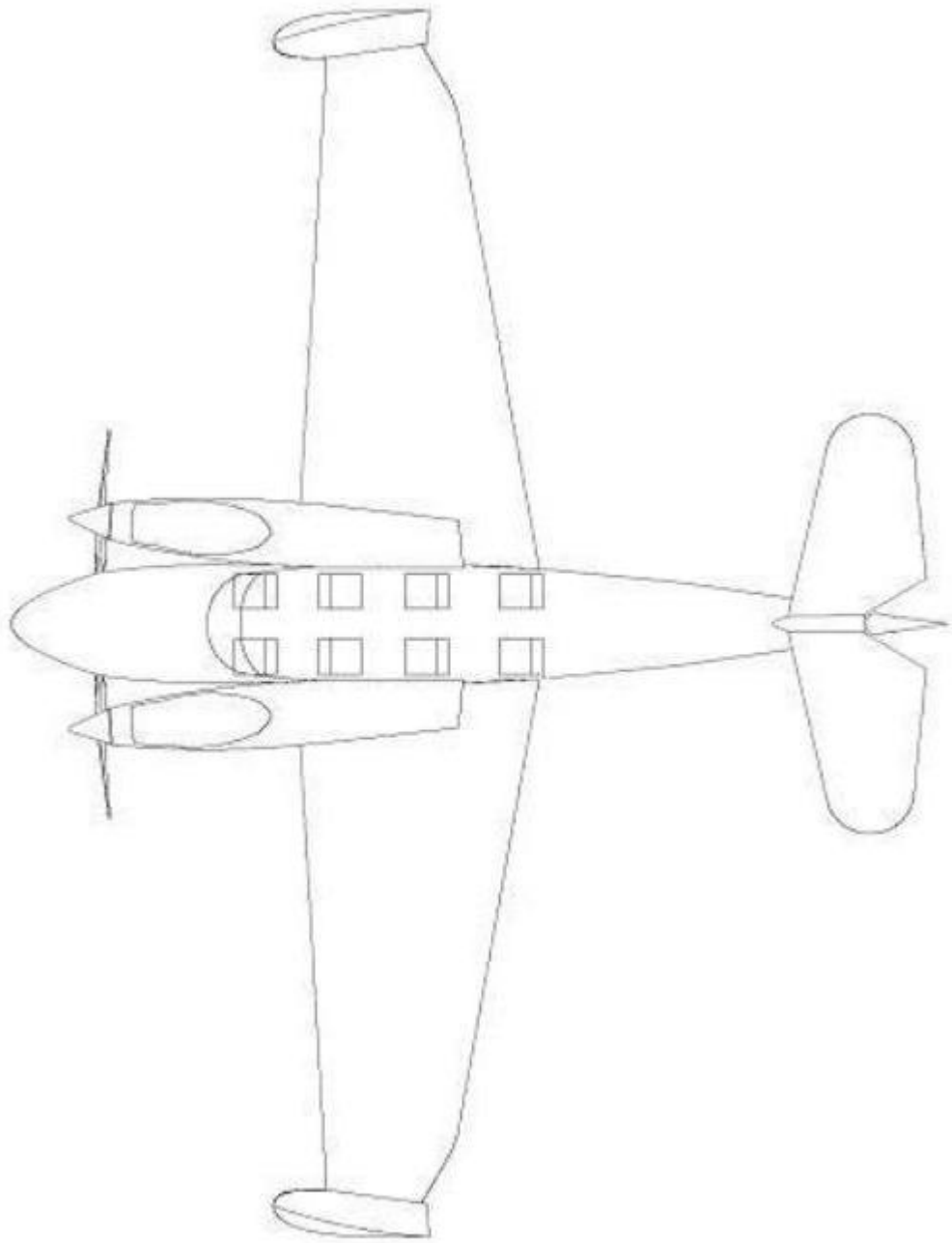


Figure 3. Antilles Seaplanes Model G-21G – Top View (Plan form)

Performance

Performance data are taken from the Aircraft Flight Manual approved for the original McKinnon G-21G. Data are subject to change or revision pending performance evaluation of new production aircraft.

Altitude Limits		
Max. Operating Altitude	6,096 meters	20,000 Feet
Single Engine Absolute Ceiling	2,621 meters	8,600 Feet
Single Engine Service Ceiling	1,890 meters	6,200 Feet
Airspeed Limits		
Never Exceed Speed (V_{NE})	390.6 KPH	211 KIAS
Maneuvering Speed (V_A)	279.5 KPH	151 KIAS
Stall Speed – Clean (V_S)	150.0 KPH	81 KIAS
Stall Speed – Landing Config. (V_{SO})	135.2 KPH	73 KIAS
Take-Off Performance		
Distance to Clear 50' Obstacle (Land)	792.5 meters	2,600 Feet
Time to Clear 50' Obstacle (Water)*	20 Seconds	20 Seconds
Maximum Rate of Climb	609.6 m/Min	2,000 Ft/Min
*Note: approximate due to water surface condition, current, and wind factors.		
Cruise Operations		
Cruise Speed	333 – 380 kph	180 – 205 KIAS
Fuel Consumption (per engine)	170.3 liters/Hour	45 US Gal/Hour
	136.8 kg/Hour	301.5 lbs/Hour
Maximum Range at Cruise*	2221 Kilometers	1,200 NM
*Note: With optional maximum fuel capacity of 586 US Gal.		
Landing Performance		
Distance to Clear 50' Obstacle (Land)	762 meters	2,500 Feet
Crosswind Capability		
Land Operations	31.5 KPH	17 KIAS
Water Operations	27.8 KPH	15 KIAS
Water Operations Limitations		
Minimum Calm Water Depth	1 Meter	3 Feet
Maximum Wave Height	1 Meter	3 Feet

Integrated “Glass” Instrument Panel & Avionics (pending certification)

Garmin G600 Primary Flight Display (PFD)	6 in diagonal EFIS Display w/ secondary MFD
Garmin GMA-340 Audio Control Panel	Includes Marker Beacons & Intercom*
Garmin GNS-430W GPS/NAV/COMMs (2)	WAAS-enabled
Garmin GTX-330 Mode S Transponder	ADS-B and TCAS-enabled
GMX-200 Multi-Function Display (MFD)	Moving Map Navigation & Wx Radar Display
Garmin GDL-69A Data Link	XM WX Satellite Weather Information Service ⁺
Cockpit Speakers & Hand-held Microphone	
Headphone & Microphone Jacks	
Outside Air Temp (OAT) Gauge	
Chronometer Clock	
Magnetic Compass	
Standby Airspeed Indicator (ASI)	
Standby Horizon Gyro / Attitude Indicator (AI)	
Standby Altimeter	

*Note: The GMA-340 handles up to three (3) Nav/Comm inputs and includes split pilot/copilot transceiver capability, three (3) levels of isolation, dual stereo inputs, & public address (PA) output.

Engine Monitoring System

Integrated Engine Instruments – To include the following

- Ammeters
- Voltmeters
- Engine (Gas Generator) Tachometers
- Torque Pressure Gauges
- Propeller Tachometers
- Fuel Quantity Gauges
- Fuel Pressure Gauges
- Fuel Flow Indicators
- Inter-Turbine Temperature Gauges
- Oil Temperature Indicators
- Oil Pressure Gauges
- Warning Panels – Caution and Warning

Traditional Instrument Panel & Avionics (Steam Gauges)

Airspeed, Altimeter, & Vertical Speed Indicator	Standard Pitot-Static Instruments
Horizon Gyro, Directional Gyro, & Turn Coord.	Standard Gyroscopic Instruments
Garmin GMA-340 Audio Control Panel	Includes Marker Beacons & Intercom*
Garmin GNS-430 GPS/Nav/Comms (2)	
or (1) GNS-530 & (1) GNS-430 Nav/Comm	(Optional Upgrade)
Garmin GI-106A VOR/LOC/GS Indicators (2)	
Garmin GTX-327 Mode C Transponder	
GMX-200 Multi-Function Display (MFD)	Moving Map Navigation & Wx Radar Display
Garmin GDL-69A Data Link	XM WX Satellite Weather Information Service ⁺
*Note: The GMA-340 handles up to three (3) Nav/Comm inputs and includes split pilot/copilot transceiver capability, three (3) levels of isolation, dual stereo inputs, & public address (PA) output.	
*Note: Subscription Service is an extra cost that is not included in the price of the airplane.	
Magnetic Compass	
Cockpit Speakers & Hand-held Microphone	
Outside Air Temp (OAT) Gauge	
Chronometer Clock	
Fuel Quantities	
Engine Torque Pressures	
Engine Gas Generator RPMs	
Propeller RPMs	
Engine Inter-Turbine Temperatures	
Engine Oil Pressures	
Engine Oil Temperatures	
Engine Fuel Flows	

Traditional Instrument Panel & Avionics - Continued

Headphone Jacks (cockpit)	
Cockpit Speakers	
Cockpit Hand Microphone	
Avionic Master Switch	
Pitot-Static System - Heated	
Airspeed	
Altimeter	
Vertical Speed Indicator	
Wet Compass – Vertical Card	
Gyro Horizon / Attitude Indicator	
Turn and Bank / Turn and Slip	

Systems and Controls

Main Circuit Breaker Panel	
Overhead Engine Controls	
Parking Break	
Pitot-Static System - Heated	
Electrically Operated Floats	Individually operated
Electrically Control Landing Gear – Manual Operation Available	

Flight Controls

Dual Flight Controls – Ailerons/Elevators/Rudder
 Pilot-side Hydraulic Brakes, Toe-Operated, co-pilot optional
 Elevator (Pitch) Trim
 Rudder (Yaw) Trim

Environmental

Electronically Controlled Environmental System

Heat System – Bleed air heat exchangers and associated ducting and controls
Air Conditioning, Vapor Cycle (compressor, condenser, evaporator and drive motor are optional)
Insulation and Soundproofing
Floor and Overhead Vents
Defrosting System – Windshield – hot air

Oxygen System - Optional

Oxygen System – Cockpit & Cabin (option)
Portable Oxygen (15 cu ft bottle with 4 masks)

Interior and Exterior

Interior

Cockpit Seats 9G rating - with Three- or Four (opt) Point Restraint System
Brownline Seat Track System
Cargo Tie Down - optional
Four (4) Cabin Seats with Passenger Seat Restraint System (4)
Defrost System – Windshield
Floor and Overhead Vents
Rugged Floor Coating
Fore and Aft Baggage Storage
Hand Fire Extinguishers and Mounting Brackets (2)
Intercom Jacks (Passenger Seats)
Aircraft Flight Manual
Main Entry Boarding Ladder

Exterior

Main Entry (LH), with Lock and Key
Emergency Exit (RH) – Half Door
Entry Assist and Door Handles
Tie Down Rings, LH / RH Wing & Tail

Lighting

Interior Lighting

Overhead Lights (Flood) – Cockpit

Passenger Cabin – Reading Lights (4)

Instrument and Switch/Circuit Breaker Panel Lighting

- Pitot Heat

- Optional Equipment Switches

- Flap Panel

- Master Switches

- Circuit Breaker Panel

- Electronic Flight Instruments

- Electronic Avionics Instruments

- Electronic Engine Instruments

- Backup Flight Instruments – internally lighted

Exterior Lighting

- Navigation, LH/RH Wing Tips & Tail

- Anti-Collision Strobes, LH/RH Wing Tips & Tail

- Landing Lights, LH/RH Wing Leading Edges

Water Operating Accessories

Standard Equipment

- Docking Pole (1)

- Bumpers (2)

- Dock Lines (4)

- Anchor Line (1)

- Anchor (1)

- Inflatable Life Jackets (6)

Optional Equipment

- Life Raft (6 man)

- Emergency Equipment Pack

Electrical Power and Distribution

200 Amp / 24 Volt DC - Starter/Generator

Batteries (2), (third battery optional for navigation data backup)

Master Switch Panel

Dual 12 Volt / 10 amps Auxiliary Power Outlet

External Ground Power Receptacle

Engineered Power Distribution and Control

DC Inverter – (120 Volt / 10 Amp)

Training

Antilles Seaplanes LLC shall provide training for one (1) pilot in accordance with its current Standard Training Transition Program. The flight training phase is a mandatory requirement prior to delivery. Antilles Seaplanes LLC pilot training includes:

1. Ten (10) hours ground school
2. Twenty five (25) hours Flight Training

Such training will be provided without charge to the Purchaser, except that:

1. The traveling, subsistence, and other expenses of Purchaser's personnel will be paid by the Purchaser.
2. Purchaser is responsible for the following expenses during actual flight training:
 - a. All Aircraft Fuel, Engine Oil and other such consumables.
 - b. Additional training hours that exceed the Ten (10) ground school hours and twenty five (25) flight hours. Instructor time for such additional training will be billed at the current rates as applicable.
3. Any ancillary or otherwise unspecified or unanticipated charges resulting from actual flight training.

Said Flight Training will be conducted in the Purchaser's Aircraft, and all flight operations will be at the Purchaser's risk.

Purchaser releases and will indemnify and hold harmless ANTILLES SEAPLANES LLC, ANTILLES' designated training institution, and their respective officers, employees, and agents against and from all liabilities and claims for damaged property or injury to or death of any person caused by the actions of Purchaser, its officers, employees or agents in connection with the training of any of Purchaser's personnel.

Additionally, Purchaser releases and will indemnify and hold harmless ANTILLES SEAPLANES LLC, ANTILLES' designated training institution, and their respective officers, employees and agents against and from all liabilities and claims whatsoever, including any claim for damage to the Aircraft, regardless of the cause thereof and expenses in connection therewith, including attorney's fees, arising directly out of flights in the Aircraft by personnel of ANTILLES SEAPLANES LLC or ANTILLES' designated training institution, as the case may be, after delivery of the Aircraft to Purchaser. Purchaser will maintain and furnish proof of appropriate insurance to cover the liabilities assumed under the foregoing undertaking, and will cause ANTILLES SEAPLANES LLC and ANTILLES' designated training institution to be named an additional insured under Purchaser's Insurance policies.

Warranty

The Aircraft, excluding avionics, engines and other equipment not manufactured by ANTILLES SEAPLANES LLC, shall be covered by the following Warranty:

- (a) ANTILLES SEAPLANES LLC warrants that the Aircraft will generally conform to the specifications of Annex A. ANTILLES SEAPLANES LLC warrants that it will convey good title to the Aircraft to the Purchaser, free and clear of all liens and encumbrances. ANTILLES SEAPLANES LLC warrants that it will deliver the Aircraft's Certificate of Airworthiness and a Bill of Sale for the Aircraft to Purchaser free and clear of liens and encumbrances.
- (b) ANTILLES SEAPLANES LLC warrants the Aircraft under normal use and if maintained in accordance with ANTILLES' current Service and Flight Manuals, as amended, against defects in material and workmanship as follows: Upon notification of any such defect, submission of satisfactory evidence thereof (ANTILLES SEAPLANES LLC being the sole judge of such evidence), and return of the defective part (such part or parts) by the Purchaser to ANTILLES SEAPLANES LLC, ANTILLES SEAPLANES LLC will:
 - 1) Within the first one thousand (1,000) flight hours or thirty-six (36) months, whichever shall occur first after the Purchaser takes delivery of the Aircraft, either repair or replace such part or parts manufactured by ANTILLES SEAPLANES LLC or manufactured by others to its detailed parts design and specifications, if found defective, and either furnish, or with prior approval from ANTILLES SEAPLANES LLC, pay for the labor necessary to remove from the Aircraft such part or parts and to reinstall in the Aircraft such part or parts as repaired or replaced.
 - 2) Within the first one thousand (1,000) flight hours or thirty-six (36) months, whichever shall first occur after the Purchaser takes delivery of the Aircraft, either repair or replace any such part or parts, including necessary labor, of the fuselage, empennage, wing and control surfaces of the Aircraft, if found defective.
- (c) All required warranty service must have prior approval from ANTILLES SEAPLANES LLC and is to be performed at ANTILLES SEAPLANES LLC's home airport or an authorized ANTILLES SEAPLANES LLC service center.
- (d) In fulfillment of a warranty claim, the warranty period of the repaired or replacement part does not start over from the date of installation.
- (e) Normal wear items, such as tires, brakes, etc., are not covered by this Warranty.
- (f) ANTILLES SEAPLANES LLC warrants for a period of twelve (12) months from the date of delivery to the first user ("One Year Period") that the Avionics equipment and components have been properly installed. If, during the One Year Period the installation of the Avionics equipment and components is found to have been defective, ANTILLES SEAPLANES LLC will perform such repairs to the Avionics equipment and components as are determined by ANTILLES SEAPLANES LLC to be necessary because of the defective installation. All required warranty service must have prior approval from ANTILLES SEAPLANES LLC and is to be performed at its home airport facility, or a factory designated and authorized by ANTILLES SEAPLANES LLC. Their respective manufacturers for varying periods of time warrant the Avionics equipment and

components. Purchaser will receive the remaining life of those warranties in accordance with each manufacturer's warranty program. All Avionics warranty service is to be performed as required by each respective manufacturer's warranty. ANTILLES SEAPLANES LLC does not warrant the avionics equipment and components.

- (g) The engines are warranted by their manufacturer under its warranty provisions and engine & parts service policy. The Purchaser will receive the remaining life of the engine warranty and the engine & parts service policy from their manufacturer. ANTILLES SEAPLANES LLC does not warrant the aircraft engines.
- (h) The warranties contained in this Section 5 are expressly in lieu of (and Purchaser hereby waives) all other warranties, expressed, statutory, implied, or implied in fact or by law; and it is further agreed that there are no implied warranties of merchantability or fitness for a particular purpose made in connection with the sale of the aircraft, engine, avionics equipment and component parts. The Purchaser and ANTILLES SEAPLANES LLC expressly agree that the remedies provided in this Section are in lieu of all other remedies against ANTILLES SEAPLANES LLC, which Purchaser might otherwise have. EXCEPT FOR THE OBLIGATIONS EXPRESSLY UNDERTAKEN BY ANTILLES SEAPLANES LLC IN THIS CONTRACT, PURCHASER HEREBY WAIVES AND FOREVER RELEASES AND RENOUNCES ALL RIGHTS, CLAIMS AND REMEDIES WITH RESPECT TO ANY AND ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY (INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS), DUTIES, OBLIGATIONS AND LIABILITIES IN TORT OR CONTRACT (INCLUDING WITHOUT LIMITATION WARRANTY) ARISING BY LAW OR IN EQUITY OR OTHERWISE INCLUDING LIABILITY FOR ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE, STRICT LIABILITY OR PRODUCT LIABILITY, AND INCLUDING, BUT WITHOUT BEING LIMITED TO ANY OBLIGATIONS OF ANTILLES SEAPLANES LLC WITH RESPECT TO EXEMPLARY, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY LOSSES OR DAMAGES FOR OR ARISING OUT OF ANY LACK OR LOSS OF USE OF THE AIRCRAFT OR ANY EQUIPMENT ON THE AIRCRAFT, OR FOR ANY FAILURE OF ANTILLES SEAPLANES LLC TO PERFORM ANY OBLIGATION HEREUNDER. PURCHASER HEREBY RELEASES AND AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS ANTILLES SEAPLANES LLC, ITS SUBSIDIARIES, AFFILIATES, AND THEIR RESPECTIVE EMPLOYEES, DIRECTORS, OFFICERS AND AGENTS, AND EACH OF THEM, FROM AND AGAINST ALL LIABILITIES, CLAIMS, DAMAGES, LOSSES, COSTS AND EXPENSES FOR LOSS OF OR DAMAGE TO PROPERTY INCLUDING ANY AIRCRAFT, AND LOSS OF USE THEREOF, OR INJURIES TO OR DEATH OF ANY AND ALL PERSONS (INCLUDING PURCHASER'S DIRECTORS, OFFICERS, AGENTS AND EMPLOYEES BUT EXCLUDING PURCHASER'S DIRECTORS, OFFICERS, AGENTS AND EMPLOYEES), ARISING DIRECTLY OR INDIRECTLY OUT OF OR IN CONNECTION WITH ANY SERVICE PROVIDED UNDER THIS CONTRACT WHETHER OR NOT CAUSED BY THE ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE OR STRICT PRODUCTS LIABILITY OF ANTILLES SEAPLANES LLC, ITS SUBSIDIARIES, AFFILIATES, OR THE EMPLOYEES, DIRECTORS, OFFICERS AND AGENTS OF ANY OF THEM.
- (i) The parties understand and agree that the Price stated in this Purchase Contract is a consideration in limiting the liability of ANTILLES SEAPLANES LLC.