The Avanti EVO Air Ambulance’s unrivalled operational capabilities and efficiency make it the ideal aircraft for medical transport and emergency medical evacuation operations. The cabin of the Avanti EVO Air Ambulance, the largest in this market segment, provides a huge space for boarding patients and taking care of them in a serene environment. The extraordinary pressurisation system is able to keep sea level pressure up to a flight level of 24,000 feet. This enables flight above weather, away from turbulence and, coupled with the smoothness of the aircraft overall, this peculiarity makes Avanti EVO the natural choice for air ambulance operators and their missions.

The Avanti EVO Air Ambulance features a safe and easy patient loading system. The low ground clearance of the cabin door and unique loading ramp system reduce the workload of care assistants during the stretcher loading sequence and cause minimal patient stress. This matchless loading system allows the seamless boarding of patients without any need to lift or tilt the stretcher, because it is at the same height inside the aircraft as it is outside it.
BETTER PRESSURIZATION

Cabin pressure is so important for passenger comfort and becomes critical for aero medical evacuation patients, needing special care regarding oxygen saturation. Thanks to the 9 psi differential on the aircraft pressurisation system, the Avanti EVO Air Ambulance can maintain sea level pressure up to 24,000 feet and even at its operating ceiling of 41,000 ft the cabin pressure is kept at a maximum of 6,600 feet. This optimal pressurization means greater comfort for the patients and medical crew.

MAXIMUM ALTITUDE AT SEA LEVEL CABIN PRESSURE (FT)

PEERLESS PERFORMANCE

Thanks to its peculiar aerodynamic design, the Avanti EVO Air Ambulance provides jet-like speed but at highly efficient turboprop fuel flow levels, offering greater efficiency to the operator. With a maximum speed of 402 KTAS (745 km/h) and a maximum ceiling of 41,000 ft (12,500 m) the Avanti EVO Air Ambulance has performance that ensures the quickest of flights for operators, patients and crew alike and allows the emergency medical service provider a shorter turnaround time due to its efficient single point refueling capability.
MORE SPACE TO WORK

With an unrivalled spacious passenger cabin, the Avanti EVO Air Ambulance delivers a huge amount of ergonomically designed working space for doctors and medical care crew. The well-lit working environment can host several cabinets, dedicated storage for medical instruments and mounts for specific medical hardware (i.e. defibrillator/pacemaker, syringe infusion pumps, ventilator, etc.).

The cabin can also be equipped with a Lifeport PLUS patient handling system, a state-of-the-art stretcher system with built-in oxygen, suction, air compressor and inverter. The single stretcher layout can accommodate up to one patient plus 4+1 medical crew/family members, while the two stretcher configuration can host two patients plus 2+1 medical crew/family member.

A private lavatory, including a toilet seat (certified for flight) and an optional water sink, enhance the cabin comfort and functionality during patient transportation. In addition to all of these features the extra width of the cabin (1.85 m) allows an oasis of space for patient and care assistant comfort.

GREAT FLEXIBILITY

The Avanti EVO Air Ambulance can be equipped with either a dedicated aero medical interior or, with a quick change, MEDEVAC layout for maximum flexibility.

Without structural or interior modifications, in less than two hours a passenger transport (shuttle or VIP) layout can be reconfigured to a single or dual Lifeport stretcher layout for medical evacuation missions.
The Avanti EVO Air Ambulance cruises at a maximum altitude of 41,000 ft, above weather and turbulence while providing the maximum comfort of patients and passengers. Thanks to its unique aerodynamic design and an optimised propellers design, the Avanti EVO Air Ambulance cabin noise, at only 67 dbA, is significantly lower than that of any other turboprop aircraft and jet in this class. This extremely quiet environment not only ensures patient comfort but also allows easy communication within the cabin. Conversation between the cockpit and cabin, without headsets, and communications between the onboard medical personnel and patients are safe, clear and effortless.

### PIAGGIO AEROSPACE AVANTI EVO SPECIFICATIONS

#### EXTERNAL DIMENSIONS
- Span: 14.345 m (47.06 ft)
- Length: 14.408 m (47.27 ft)
- Height: 3.980 m (13.06 ft)

#### CABIN DIMENSIONS
- Height: 1.75 m (5.77 ft)
- Width: 1.85 m (6.08 ft)
- Length: 4.55 m (14.92 ft)
- Max Seating Capacity: 8+2 crew
- Typical Executive Payload: 6+1 crew

#### BAGGAGE COMPARTMENT
- Volume: 1.25 m³ (44.15 ft³)
- Length: 1.70 m (67 ft)
- Maximum Weight: 159 Kg (350 lbs)

#### PRESSURIZATION
- Differential Sea Level cabin up to: 7,315 m (24,000 ft)
- 0.62 bar, 9.0 psi

#### WEIGHTS
- Max Take-off Weight: 5,489 Kg (12,100 lbs)
- Max Landing Weight: 5,216 Kg (11,500 lbs)
- Max Zero Fuel Weight: 4,445 Kg (9,800 lbs)
- Standard Empty: 3,561 Kg (7,800 lbs)
- Max Fuel Capacity (Standard Config.): 1,271 Kg (2,800 lbs)
- Fuel with Max Net Payload (Standard Config.): 1,066 Kg (2,350 lbs)
- Max Net Payload (Standard Config.): 794 Kg (1,750 lbs)
- Net Payload with Max Fuel (Standard Config.): 589 Kg (1,298 lbs)
- Max Fuel Capacity (Increased Range Config.): 1,451 Kg (3,200 lbs)

#### POWERPLANT
- 2 x Pratt & Whitney Canada PT6A-68H Engines
- 850shp/634kW each (ISA, sea level), flat-rated from 1,630shp
- 2 x Horten low-noise prop twins

#### PERFORMANCE
- Maximum Speed (at 31,000 ft ISA): 745 km/h (402 KTAS)
- Mmax: 0.70 Mach
- Max Range (NBAA IP, Standard Config.): 2,815 Km (1,520 NM)
- Max Range (NBAA IP, Increased Range Config.): 3,278 Km (1,770 NM)
- Service Ceiling: 12,500 m (41,000 ft)
- Rate of Climb (MTOW, 12,100lbs): 8.64 m/min (2,770 fpm)
- Take-Off Distance (SL, ISA to 50ft): 972 m (3,190 ft)
- Landing Distance (SL, ISA, 50ft, MDW, no reverse): 1,000 m (3,282 ft)