

# P42 Echo Classic



QUALITY AIRCRAFT SINCE 1948

**TECNAM**

**Advanced Ultra Light**

**PROPELLER**

Manufacturer	Rotax
Model	912UL / 912 ULS2
Power	80 / 100 hp
Number of Cylinders	4

**PROPELLER**

Manufacturer	Tonini
Model	GT
Number of Blades	2
Type	Fix

**DESIGNED WEIGHT and LOADING**

	lb	kg
Designed Maximum Take-off weight	1320	600
Limit Loads	+4 / -2 g	
Ultimate Loads	+6 / -3 g	

**DIMENSION**

LH-RH Cabin Door Height	33 lb	0,83 m
LH-RH Cabin Door Width	30 lb	0,76 m
Baggage Allowance	44 lb	20 kg

**PERFORMANCE (450 KG) 100 hp**

	Kts	Km/h
Speed		
Maximum at Sea Level, Gross Weight	113	210
Cruise, 75% power	100	185
Vne	140	260
Stall Speed		
Flaps Down, power off	33	61
Rate of Climb at Sea Level	1200 ft/m	
Service Ceiling	14,800 ft	4500 m
Takeoff Performance	ft	m
Ground roll	610	100
Total over 50 fr obstacle	1067	180
Landing Performance	ft	m
Ground roll	488	100
Total over 50 fr obstacle	915	250

**FUEL TANK CAPACITY**

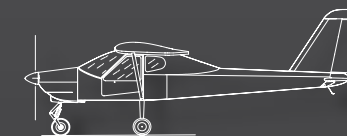
11,9x2 GAL. 45x2 Lt.

**FUEL ECONOMY**

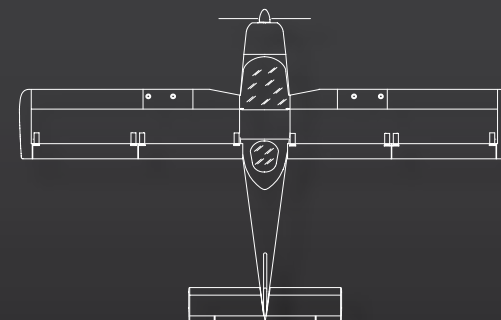
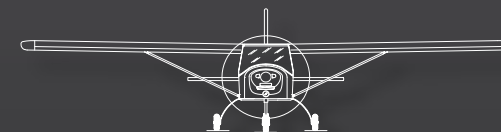
4,5 GAL/Hr. 17 Lt./Hr.

The P92 Echo Classic is a two-seat, single strut braced high wing aircraft.

The P92 Echo Classic was designed and manufactured according to the international airworthiness standards. This has been accomplished by one of the most renowned European Designers in the general aviation field, with the aid of modern planning instruments. The P92's performance and flying qualities are so superior that it compares to aircraft certified under FAR/CS 23.



Wing Span	28,4 ft	9,6 m
Wing Area	142 sq/ft	13,2 m <sup>2</sup>
Fuselage Length	19,2 ft	6,4 m
Fuselage Height	7,6 ft	2,5 m



**Advantages**

- Superior performance and flight characteristics
- 185 km/h (100 kts) cruise speed
- Stable and responsive
- Ideal for flight schools
- High level of comfort that makes it ideal for long routes
- Excellent visibility

## Construction

- The Tecnam line employs a monocoque tail cone section with the forward fuselage using sheet aluminium over steel tubing.
- The wing is an all aluminium conventional structure with a single strut.
- The fuel tanks hold 11.9 gal/45l each, located in the wing leading edge separated from the fuselage for safety.
- A wide rear window together with large side windows complete the extraordinary visibility allowing 360° of vision in the cockpit.
- The all moving Stabilator is fitted with a trim tab controlled by buttons on the control column.
- The excellent flying characteristic with neutral handling makes it extremely stable and easy to fly for people of any weight/height.
- The large flaps are deployed electrically.
- The low stall speed and the general slow flying characteristics of the aircraft allow it to operate with ease on short runways.

## Interior

- Seats are adjustable and increase in height as they are moved forward.
- The luggage area allowing for 44 pounds/20 kg of weight is located behind the seats with easy access in flight.
- All Tecnam aircraft have dual control sticks, throttles and rudder pedals.
- The trim tab and the flaps are electrically activated with a position indicator on the instrument panel.
- The fresh air vents are conveniently located in the doors.
- The aircraft has dual rudder pedals with a steerable nose wheel.
- The wide instrument panel is designed to accommodate a full variety of instrumentation.



## Landing Gear

- The main landing gear legs are made of spring steel, directly connected to the main structure. The landing gear is robust enough for rough strips and require no maintenance.
- The trailing link nose gear uses a rubber shock absorber system that was designed for the rigours of the training environment with easy and economical maintenance.
- The main landing gear wheels and brakes are conventional aircraft size (5.00x5)
- The brake lever control and the parking brake are located forward between the seats.

## Engine and Propeller

- The top and bottom engine cowls are quickly and easily removed making any maintenance procedure faster to accomplish. The top cowl has a large opening for easy access to the engine compartment for effective pre-flight inspections.
- The engine's mount is steel-tubing with shock mounts. It also supports the nosewheel that is not anchored directly to the cabin's structure.
- Two power plant options are available: Rotax 912UL 80HP four-cylinder, four-stroke engine and Rotax 912 ULS 100HP four-cylinder, four-stroke engine. Both engines come with an integrated 1:2.4286 reduction gear.
- A fixed pitch wood and composite propeller comes as standard.
- The quick drain gascolator is installed in the engine compartment with easy outside access.
- The fuel system uses a mechanical engine driven pump along is with an electrical back-up pump.
- The battery is located in the rear of the fuselage with easy access through a hinged door.

## Standard equipment

<ul style="list-style-type: none"> <li><b>FLIGHT INSTRUMENTS AND INDICATORS</b></li> <li>Magnetic compass</li> <li>Airspeed ind., Kts</li> <li>Altimeter (in)</li> <li>Vertical speed</li> <li>Bank indicator</li> <li>Flaps indicator</li> <li>Pitot system</li> <li>Static system</li> <li>Stabilator trim position indicator</li> </ul>	<ul style="list-style-type: none"> <li>Oil press</li> <li>Oil temp.</li> <li>Head temp.</li> <li>Lh + rh fuel qty</li> </ul>	<ul style="list-style-type: none"> <li>_ Choke</li> <li>Flight trim controls</li> <li>_ Stabilator with indicator</li> <li>Fuel control selector with on/off</li> <li>Panel switches:</li> <li>_ Starter</li> <li>_ Engine lh and rh ignition switches</li> </ul>	<ul style="list-style-type: none"> <li><b>FUEL SYSTEM</b></li> <li>Two integral fuel tanks with 90 litres</li> <li>Total capacity</li> <li>Engine driven fuel pump</li> <li>Fuel quick drain</li> </ul>	<ul style="list-style-type: none"> <li>Wall to wall carpeting</li> <li>Map e storage pockets</li> <li>Luggage compartments</li> </ul>	<ul style="list-style-type: none"> <li><b>POWERPLANT AND PROPELLER</b></li> <li>Engines - 1 rotax 912ul 80/100 hp, 4 cylinders</li> <li>Liquid/air cooled, integrated reduction gear</li> <li>Dual ignition system</li> <li>Throttle control lh/rh</li> <li>Tubular steel engine mount</li> <li>Propeller - gt propeller, 2 blade fix</li> <li>Propeller spinner</li> <li>Air filter</li> <li>Oil filter</li> <li>Oil and water coolers</li> </ul>	<ul style="list-style-type: none"> <li><b>PRODUCT SUPPORT/ DOCUMENTS</b></li> <li>Manufacturers full two year limited warranty</li> <li>Pilots operation handbook</li> <li>Maintenance manual</li> </ul>
<ul style="list-style-type: none"> <li><b>ENGINE INSTRUMENTS</b></li> <li>Tachometer</li> <li>Hour recorder</li> </ul>	<ul style="list-style-type: none"> <li><b>FLIGHT CONTROLS</b></li> <li>Hydraulic brakes</li> <li>Parking brake</li> <li>Electrical flaps</li> <li>Dual flight controls</li> <li>Steerable nose wheel</li> <li>Stabilator trim (between the seats)</li> <li>Engine controls</li> <li>_ Throttle, two</li> </ul>	<ul style="list-style-type: none"> <li><b>ELECTRICAL SYSTEM</b></li> <li>12 Volt 18a amp. Battery</li> <li>12 Volt alternators-20 amp.</li> <li>Circuit fuses panel</li> </ul>	<ul style="list-style-type: none"> <li><b>INTERIOR</b></li> <li>Pilot and copilot seats</li> <li>_ Adjustable fore and aft</li> <li>_ arm rest</li> <li>Seat belts &amp; shoulder harness, all seats</li> </ul>	<ul style="list-style-type: none"> <li><b>EXTERIOR</b></li> <li>Rear window</li> <li>Tie down rings</li> <li>Main wheels, 5,00 x 5</li> <li>Nose wheel, 4,00 x 6</li> </ul>		
			<ul style="list-style-type: none"> <li><b>CABIN COMFORT SYSTEM</b></li> <li>Ventilator adjustable, 2 place</li> </ul>			

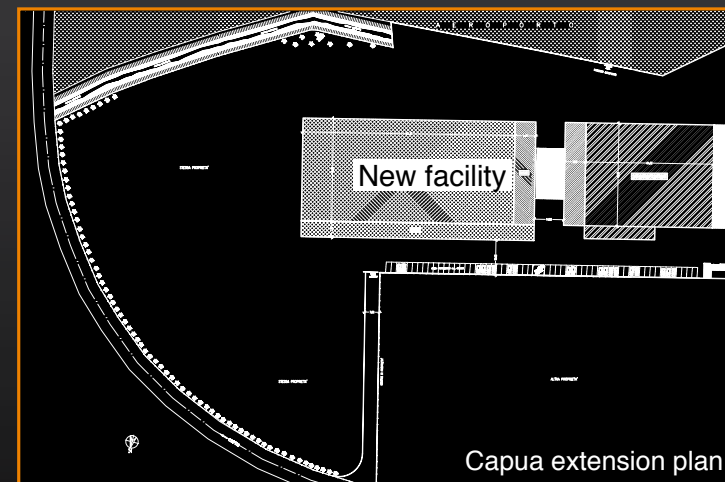
Costruzioni Aeronautiche Tecnam operates in two facilities. The Casoria facility is located adjacent to the Napoli Capodichino Airport and covers an area of 108000 sq ft with 43100 sq ft of enclosed facilities. The Capua facility is located adjacent to the "Oreste Salomone" Airport, covers an area of 129000 sq ft with 43100 sq ft of enclosed facilities. In 2007 construction began on an extension of the Capua facility, adding a new area of 387000 sq ft with 64600 sq ft of enclosed facilities. This extension will double the production capacity of the Capua plant. Modern reinforced concrete buildings are used for manufacturing processes, design activities and office administration.



Capua plant



Casoria plant



Capua extension plan

