

Nacra Infusion



In Formula 18 racing, all producers have to try to top the racing results and therefore be on top of the market. All sailors know that Formula 18's are innovative racing machines and therefore will continue to change to meet the demands of the market. The Nacra Infusion is made with the latest production technology and hull design by a company famed for quality production. The Nacra Infusion is the most innovative sports catamaran on the World market.

Construction.

The Nacra Infusion is the only production catamaran that is made with infusion technology. This technique makes sure that weight distribution in manufacture produces a much stiffer hull compared to conventional methods, and stiffness of hull produces extra performance in high level racing for many more years. The production of dagger boards and rudder blades is also new, being made in three dimensional shaped aluminium moulds using high compression to give Nacra F18 Infusion stiffer and stronger blades for high level racing. These are the same techniques as used to build the Nacra A2, World Champion A-Class in 2005.

The Nacra Infusion features a wing mast that provides superb rig dynamics coupled with advanced sail design from Performance Sails.

Hull design.

Wave piercing technology is the way forward as the Nacra A2 has proved, and the Nacra Infusion develops this technique. Compared to conventional hull shapes, wave piercing hulls gives less water resistance hence more energy that can be turned into boat speed, especially upwind where the boat pitches less than other traditional F18's hence sailing significantly quicker. In light conditions the boat is wave piercing but as the wind increases the crew weight is moved further aft and the boat starts to plane upwind !! In contrast to classic designs, the Nacra F18 Infusion stabilises itself at higher speeds due to dynamic lift, hence reducing pitching to low levels, which means that there is a more consistent airflow over the sails and rig which is translated into more boat speed.

Features of the Nacra F18 Infusion.

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| Canted hulls. 4 degrees | = For better upwind performance |
| Innovative bow/deck watershearing design | = Less water resistance |
| Semi encapsulated front beam | = No breaking from deck water |
| Flush decks. | = Clean cosmetic looks |
| Gybing dagger boards | = Push you more upwind |
| Wing shaped mast profile | = Better rig dynamics |
| Maximum raised rear beam | = Reduction in wave drag up and down wind |
| Self tacking jib system | = Easy for crew in tacking and gybing. |
| Exclusive side laced mesh trampoline | = High trampoline tension adding to stiffness |
| Pull up dagger board system | = Easy to adjust in seconds |
| Low bridle | = Very efficient jib, giving drive and less heel |
| Nacra kick-up rudder system | = Recognised as the best around today |
| Canted front beam in direction of | = Better spread of mast load |

mast rake

"Sharkfin" high aspect rudder blades

= Accurate and efficient steering

Ultra-clean deck lay out

= Adding to sailing efficiency and safety

Nacra mid pole spinnaker system with snuffer

= Easy launching and retrieving

High aspect asymmetrical spinnaker

= Superb downwind performance.

High aspect jib

= Advanced pointing ability

High aspect square topped mainsail

= Yielding more controllable power.

Details

Length: 5.52m

Beam (width): 2.6m

Mast Length: 9.16m

Weight: 180kg

Mainsail area: 17m²

Jib Area: 3.45 / 4.15 m²

Asym. Spinnaker: 19 / 21 m²

Trapeze: 2 persons in trapeze

Construction: Infusion technology vinylester foam sandwich hulls

Designer: Nacra design team

