

## What you need to know before installing a wiper system.

The importance of a quality marine wiper system is often overlooked – until you need it most. When visibility is poor and seas are rough, a durable, fully-functional wiper system can make all the difference. When evaluating a new wiper system for your boat, there are a number of factors to consider.

**Window Size** While boat size is taken into account, the real determining factor in choosing a wiper system is the size and shape of the glass to be cleaned. The larger the windshield, the longer the wiper arms and blades need to be. Since longer arms and blades create more friction, you will also need a stronger motor.



**Motor Mounting Position** Wiper motors are usually fitted either directly below or above the window. Below the window is a popular position on newer yachts, as many owners like the appearance of arms running up the glass. This position also allows the arms to be kept out of sight when not in use, even though it may require longer arms to reach the entire area to be cleared. Above the window positioning creates easier access and allows shorter arms to reach the sight-line on sweeping windshields. Often, motor placement is simply determined by where it will best fit into the boat.

**Control Systems** Operating your wiper system no longer means either “ON” or “OFF”. Like today’s automobile wiper systems, marine wiper control systems now offer a long list of features to make your boating experience more enjoyable and trouble-free. All Imtra’s wiper systems feature two-speed motors (low/high). Most of the controls take advantage of these two continuous speeds, as well as intermittent wiper operation. Most also allow for easy push-button control of a wiper washing system if one is installed on the boat. We offer individual switches or full-feature control panels with detailed LED displays to identify which motors are running and at what speeds. Many panels and switches will synchronize the wiping action of multiple wipers – even if they were turned on separately!

**Washing Systems** More and more boats are being fitted with washing systems to help clear the glass from salt spray, pollen and obstructions. Systems can be adapted to run off the ship’s pressure water system or be plumbed to a stand-alone reservoir with a simple DC pump. We have all the bits and pieces needed to plumb the system including solenoids, manifolds, washing jets and more. Washing jets can be mounted to the deck of the boat or directly to the end of the arm. Arm-mounted jets are popular as they direct the washing fluid right where it’s needed with less interference from wind.