

1. Introduction

This document provides the general guidance on the systems for a correct nautical glasses cleaning.

Isoclima S.p.A. disclaims any liability for damages to the product attributable to cleaning operations not mentioned in this document.

2. Field of application

This document applies to glass made by Isoclima S.p.A., to the glass sections that are visible after installation.

3. Cleaning glass instructions

Proceed with the surface cleaning considering :

1. To abundantly wet the involved surfaces with fresh water (use a special spray dispenser if necessary), in order to remove any residual dust and / or saline deposit before proceeding to phase 2, which could cause damage to the glass surfaces, such as scratches and/or abrasions;
2. To gently rub the surfaces with a sponge well impregnated with cleaning liquid or neutral soap (ph= 7);
3. To rinse with fresh water to completely remove the cleaning solution or neutral soap.

In the case of residues "resistant" to normal cleaning actions, such as oily stains and other organic pollutants, it is possible to proceed with a soft and clean cloth soaked in isopropyl alcohol.

After completing this cleaning operation, it is possible to thoroughly rinse the surface just treated and then proceed with a "standard" cleaning.

4. General precautions

- To avoid contact between glass and any metal objects (jewelry, razor blades, cutters or other work tools);
- To avoid washing glass with hydro-cleaning machines or equivalent, which could damage the seals;
- To avoid using acid-based (white vinegar) and/or alkaline cleaning products, which could damage the seals and the surface of the glass especially if reflective and / or coated;
- To not use abrasive materials for cleaning glass, such as sponges with a rough surface, scouring pads, etc.

Below is a representative photo of an effect resulting from incorrect cleaning operations:



Picture 1




The glass area circumscribed by the red circle has been subjected to partial removal of the reflective treatment **for improper use of abrasive cleaning systems.**

5. Maintenance of the perimeter glass sealing

In order to ensure an optimal life to the glass and to the perimeter seals, Isoclima recommends:

1. to perform a periodic inspection of the seal (max every 6 months) by expert personnel, to monitor the seals deterioration and to ensure a good state of the product conservation over time;
2. to avoid using acid-based cleaning products, such as white vinegar or other aggressive products that progressively weaken seals integrity;
3. to avoid washing windows with hydro-cleaning machines or equivalent;
4. to avoid prolonged deposits of cleaning liquids and / or solvents along the perimeter of the glass seals;
5. to avoid the formation of stagnant condensation along the perimeter edge of the glass.

Here below some examples of effects generated by exposure to moisture infiltrations deriving from the bad state of seals conservation.

Picture	Description of the effect	Cause of origin
	<p>Lack of sealing integrity (e.g. cuts on the seal – area marked in red)</p>	<p>Degradation by prolonged exposure to UV radiation and saline solution</p>
	<p>Chemical interactions (red marked area)</p>	<p>Incorrect maintenance and cleaning with aggressive or incompatible cleaning products</p>
	<p>Bubbles/Holes on the seal (red marked area)</p>	<p>Degradation by prolonged exposure to UV radiation and saline solution.</p>