

# Magnetite

## How the Magnetite Argon-Tite system Works

Installation of a discreet Magnetite subframe allows a clear optical grade acrylic panel to attach inside the existing windowsill, using continuous magnetic channels to ensure a secure and airtight seal around the window. The magnetic seal ensures that when the Magnetite panels are in place the double-glazed window insulation system has the lowest air infiltration rate of any operational window. This seal creates a cavity between the existing window and your Magnetite panels. Argon gas is then injected through a valve in the acrylic window panel.

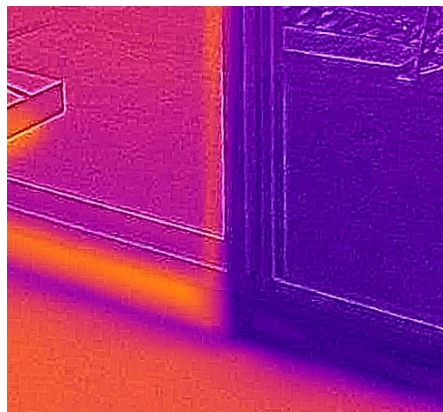
## Why Argon gas?

The Argon-Tite system is especially developed for high-humidity environments, such as aquatic centres, where the use of our standard retrofit double glazing system has problems with condensation between the glass and our acrylic panel.

Argon gas is an inert heavier than air gas. By injecting it into the cavity through one of the valves, it forces the high humidity air out of the other valve. The Argon is completely dry so no condensation occurs.

## The advantages of the Argon-Tite system

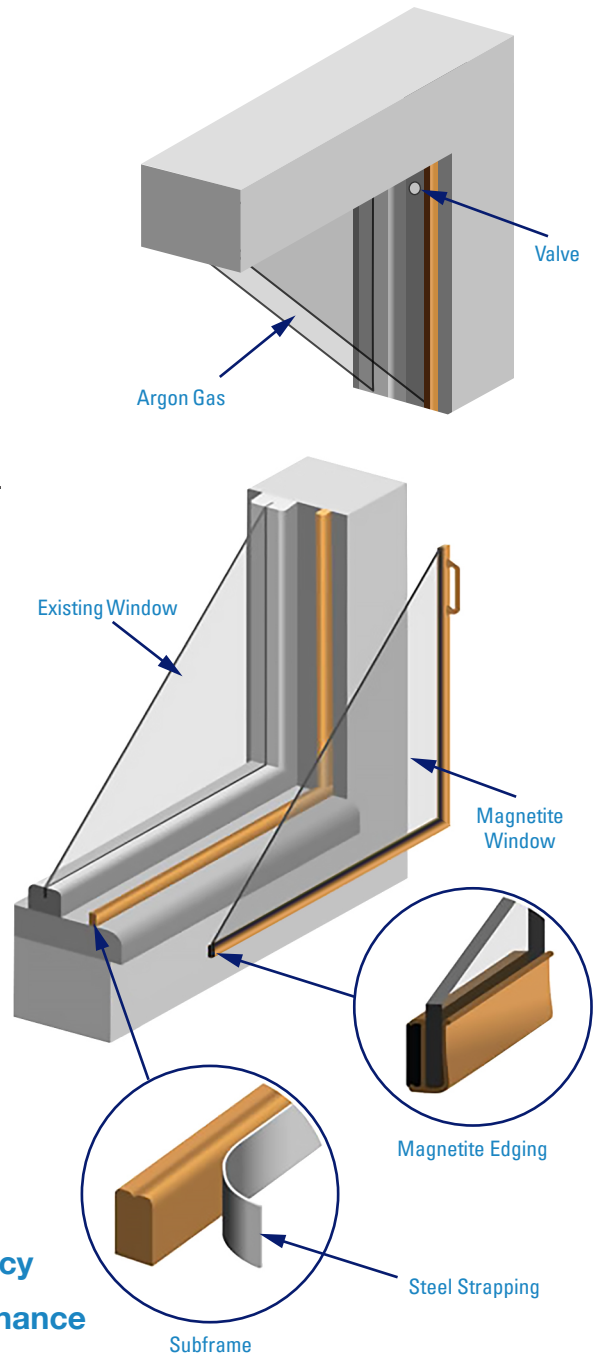
- Up to 70% better thermal improvement
- Up to 70% noise reduction
- Can be installed to any shaped window
- The Argon gas cavity increases the thermal efficiency
- The acrylic panel can easily be removed for maintenance
- Replacing the Argon gas is easily done



Thermal image of the Argon-Tite system on the left showing ...



The Argon-Tite system subframe.



The Magnetite subframe is foam PVC and acts as a thermal break between the existing window and the Magnetite secondary system. This sub-frame also allows Magnetite to attach to any existing window frame - timber, aluminium, or steel. The acrylic glazing panels used by Magnetite are up to six times more thermally efficient than glass. Solar control films may also be applied to windows requiring reduction in radiant heat.

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