

# VITRUS

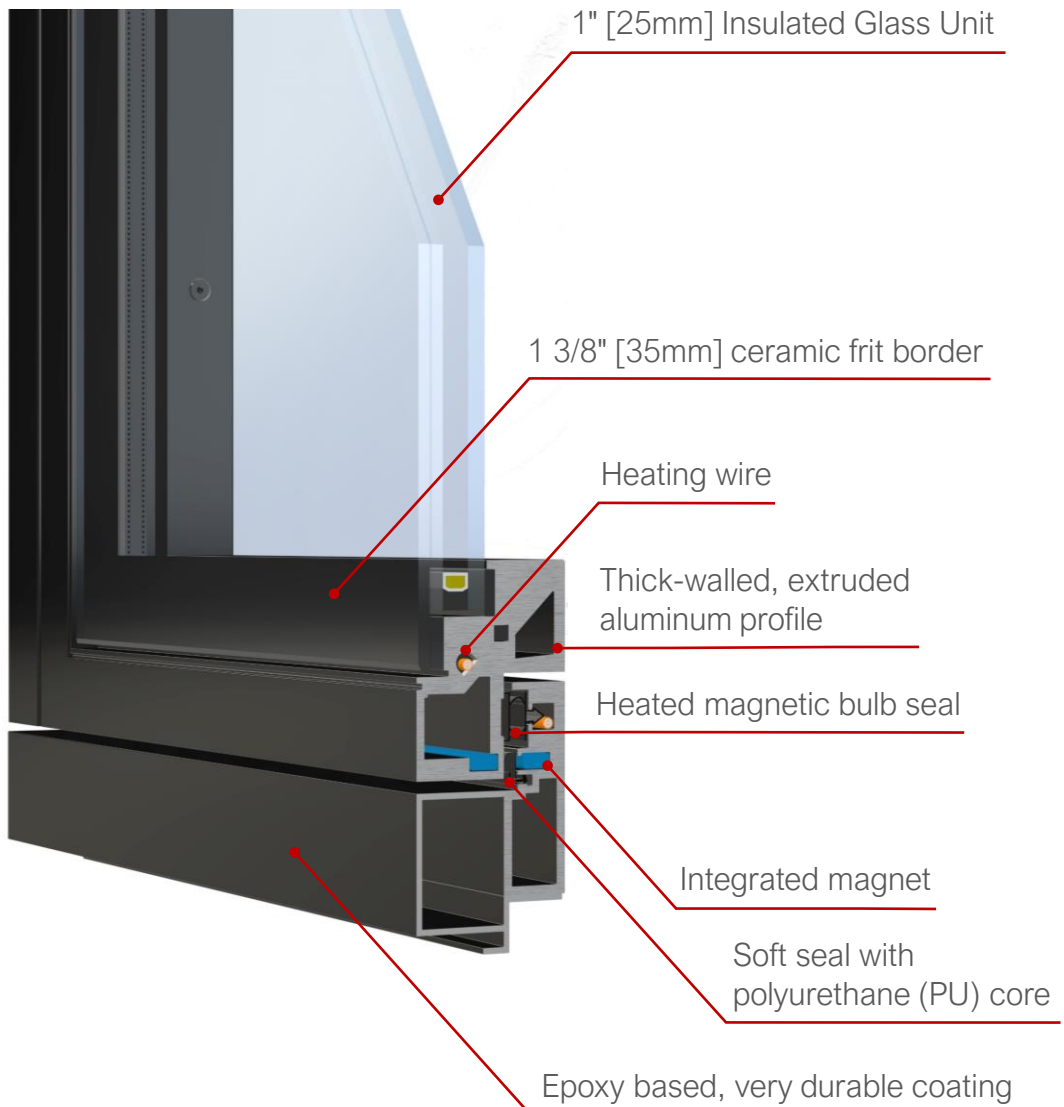
## TECHNICAL SPECIFICATIONS

VITRUS is a versatile modular system specifically designed for the optimal storage of wine. The enclosure is composed of insulated floor, wall, and ceiling panels, as well as framed glass doors and fixed glass panels. The system is completed with a wine racking system and cooling unit, which can be chosen from a variety of options.



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### MAXIMAL DIMENSIONS

Overall Enclosure Height	10' [3048mm]
Door Width	36" [914mm]
Fixed Glass Panel Width	48" [1219mm]

### FRAME

Material	Thick-walled, extruded aluminum
Standard Finish	Painted in RAL9005 (Jet Black)
Optional Finish	Painted in any RAL color
Features	<ul style="list-style-type: none"><li>• Very robust structure</li><li>• Heated frames avoiding condensation even in humid regions</li></ul>

### GLAZING

Composition	3/8" [10mm] clear laminated glass 11/32" [9mm] argon-filled air space 1/4" [6mm] clear tempered glass
Overall Thickness	1" [25mm]
Thermal Performance	U Value: 2.7 W/(m <sup>2</sup> K) w/o Low-E coating U Value: 1.5 W/(m <sup>2</sup> K) w/ Low-E coating
Standard Glass Color	Clear
Optional Glass Colors	Ultra-Clear, Bronze, Gray
Features	<ul style="list-style-type: none"><li>• UV-transmission less than 1%</li><li>• 1 3/8" [35mm] ceramic frit border</li><li>• Optional Low-E coating</li></ul>

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### DOOR

Frame – Material

Thick-walled, extruded aluminum

Frame - Standard Finish

Painted in RAL9005 (Jet Black)

Frame - Optional Finishes

- Painted in any RAL color
- Wood inlay (in any wood type) integrated into the aluminum frame



Painted in any RAL color



Wood inlay (in any wood type)

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### DOOR

Hinge	Four fully concealed door hinges, adjustable in 3 directions
Sealing	Two rows of seals on 4 sides <ul style="list-style-type: none"><li>• heated magnetic bulb seal</li><li>• soft seal with polyurethane (PU) core for excellent air-tightness</li></ul>
Handle - Design	Full-height aluminum handle integrated into the door frame
Handle - Standard Finish	Painted in door frame color
Handle - Optional Finish	Wood inlay (in any wood species) integrated into the aluminum frame
Features	<ul style="list-style-type: none"><li>• Very robust structure</li><li>• Heated frames avoiding condensation even in humid regions</li><li>• Integrated magnets to keep the door tightly closed</li><li>• Optional electric lock that can be paired with electronic access control systems</li></ul>

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### INSULATED WALL PANEL

Structure	Insulated (R=9 ft <sup>2</sup> ·°F·h/BTU) composite panel consisting of the following layers: <ul style="list-style-type: none"><li>• 1/16" [1.5mm] aluminum sheet functioning as a protective outer layer and vapor barrier</li><li>• 1 9/16" [40mm] high-density XPS providing excellent thermal insulation</li><li>• 3/8" [9mm] plywood substrate serving as an anchor for all interior elements</li></ul>
Joint Type	Tongue and groove

### INSULATED FLOOR & CEILING PANELS

Structure	Insulated (R=9 ft <sup>2</sup> ·°F·h/BTU) composite panel consisting of the following layers: <ul style="list-style-type: none"><li>• 1/16" [1.5mm] aluminum sheet functioning as a protective outer layer and vapor barrier</li><li>• 1 9/16" [40mm] high-density XPS providing excellent thermal insulation</li><li>• 3/8" [9mm] plywood substrate serving as an anchor for all interior elements</li></ul>
Joint Type	Tongue and groove
Floor Panel – Legs	Adjustable legs enabling easy leveling of the enclosure on uneven surfaces
Ceiling Panel - Cooling Unit Integration	Compatible openings on ceiling panels for integration of a wide range of popular cooling units available in the market

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### FLOOR, WALL & CEILING FINISHES *(in "FURNISHED" option)*

- |                            |   |
|----------------------------|---|
| Options for Floor Finish   | <ul style="list-style-type: none"><li>• If walk-in enclosure, 1/3" [8mm] or 1/2" [12mm] Multi-layer HDF flooring</li><li>• Otherwise, 11/16" [18mm] PVC foil coated MDF panel</li></ul> |
| Options for Wall Finish    | <ul style="list-style-type: none"><li>• 11/16" [18mm] PVC foil coated MDF panel</li><li>• 11/16" [18mm] wood veneered plywood panel</li></ul>   |
| Options for Ceiling Finish | <ul style="list-style-type: none"><li>• 11/16" [18mm] PVC foil coated MDF panel</li><li>• 11/16" [18mm] wood veneered plywood panel</li></ul>   |

### LIGHTING *(both in "BARE-SHELL" and "FURNISHED" options)*

- |                           |   |
|---------------------------|---|
| Types                     | <ul style="list-style-type: none"><li>• Linear LED bar with diffusor on the ceiling and/or</li><li>• Concealed LED lights integrated in the racking systems</li></ul>   |
| LED Specifications        | <ul style="list-style-type: none"><li>• 12 VDC</li><li>• 1.6 Watt/feet [5.1 Watt/meter]</li><li>• 2700° K</li><li>• Color Rendering Index (CRI) min. 90</li><li>• Dimmable</li></ul>                                    |
| Power Supply / LED Driver | <ul style="list-style-type: none"><li>• 100-305 VAC input voltage range</li><li>• Dimming function with 0-10VDC control signal</li><li>• Optionally, a "dimming over remote controller" function can be added</li></ul> |

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### OPERATING CONDITIONS

VITRUS is designed to provide optimal conditions for the proper storage and aging of wine. It is important to note that VITRUS is specifically designed as a "wine storage" enclosure and not intended for use as a wine serving enclosure. Therefore, the minimum operating temperature (enclosure temperature) should not be set below 55°F (12.7°C).

VITRUS is designated as Climate Class 8, with a maximum ambient temperature of 75°F (24°C) and a recommended relative humidity (rH) of 55%.

### ELECTRICAL SAFETY PRECAUTIONS

VITRUS enclosures include electrical components.

To ensure safety, VITRUS enclosures must be properly grounded. The ground point is located on the top side of the enclosure's ceiling panel.

VITRUS enclosures should be powered by a circuit equipped with a Residual Current Device (RCD).

The information in this technical datasheet is subject to change without notice. It is recommended to verify the accuracy of the information and regularly check for updates from the manufacturer.