

Ulti Duo Therm Blast

DOUBLE INSULATED BLAST FREEZER DOOR

Protect your product and people with our innovative, locally designed blast freezer door, purpose-built to withstand the temperature and pressure extremes of the blast freezer environment. Providing enhanced safety and a reduced installation footprint, the innovative double insulated curtain system also delivers increased energy savings, with outstanding thermal insulation.

Space Saving Design

Compared to traditional inefficient sliding or overhead sectional blast freezer doors, the compact design of the Ulti Duo Therm Blast allows it to be easily incorporated into restricted building clearances or rows of blast freezers, maximising valuable floor space.

Safety First

The unique dual-curtain design of the Ulti Duo Therm Blast, eliminates ice-build up in the door, removing the risk of personnel harm that traditional overhead sectionals inherently have, due to the weight suspended over the opening while raised. Protect your people, product and facility from harm.



Ideal for use in

- Blast Freezers
- Extreme Environments
- High Pressure Environments
- Cold Storage Logistics

Energy Saving

At the heart of the Ulti Duo Therm Blast door design is the innovative double curtain. During blast cycles, the two curtains create a tight seal against the high pressure, with a treated air gap between them for ultimate insulation. This eliminates ice build-up while maximising your energy savings in the blast freezer.

Low Life-time Cost

Like our rapid doors, the edge of the curtain has continuous injection-moulded teeth that are held in a self-lubricating polyethylene track, meaning less maintenance for a lower lifetime cost. There are no metal parts within the curtain design, meaning any potential damage from accidental impacts is kept to a minimum, ensuring a long and productive life.

Enhanced Productivity

Less maintenance means reduced downtime, maximising the efficiency of your blast freezer and improving your bottom line. The Ulti Duo Therm Blast's short opening and closing times create improved site efficiencies while reducing ice buildup and associated defrosting downtime and costs in the blast freezer.



STANDARD COMPLIANCE

Wind Permeability	Class 1	Water Permeability	Class 1
Wind Loading	Class 2	Thermal Transmittance	1.5W/m ² K
Safe Openings	Yes	Pressure Differential	Up to 60Pa

TECHNICAL SPECIFICATIONS

Application	Internal
Standard Size	4500mm H x 3500mm W
Minimum Size	2000mm H x 2000mm W
Maximum Size	5500mm H x 5200mm W
Opening Speed	Up to 1 m/s
Closing Speed	0.8m/s (variable)
Operating Temperature	-30°C to +15°C

STRUCTURE

Frame Material	Galvanised Steel
Frame Colour	RAL9010

SPACE REQUIREMENTS

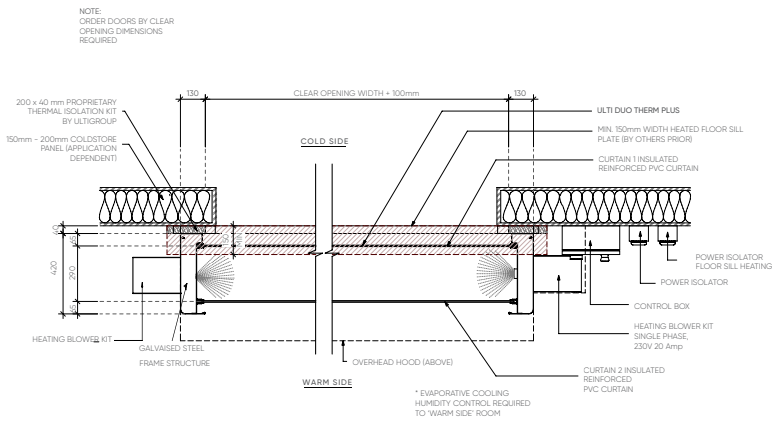
minimum clearances

Headroom	1000mm
Sideroom	500mm (motor) 485mm (non-motor side)

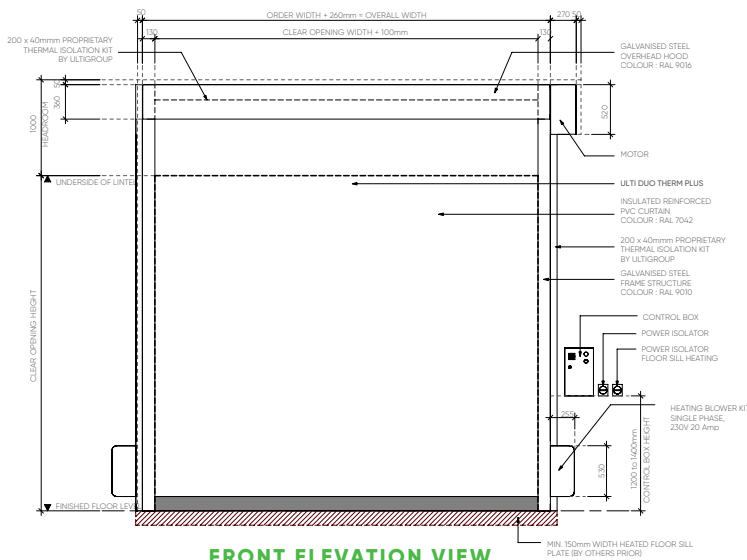
CURTAIN

Material	3.5mm Insulated Reinforced PVC Curtain
Colour	RAL7042 (standard), RAL9003

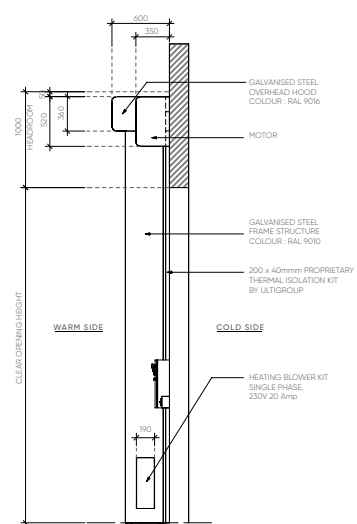
DIMENSIONS



FLOOR PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW

MOTORISATION

Motor	IP54 rated 1.5kW Heavy Duty 3phase Motor Drive and electromagnetic brake – RH mounted
Motor Position	RH Side
Control Panel	IP54 rated Metal Control box with inverter frequency controller – RH mounted
Power Supply	400V; 3phase+N+E; 15Amp Rated adjacent to control box installed to right hand side
Heating Power Supply	230V; Single Phase; 20Amp

ACTIVATIONS

Manual	Push button and Emergency stop button fitted to control box
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SAFETY

Standard Inclusions	1 Set of Infrared Photocell Safety beams IP65 Soft PVC Bottom Edge LED Countdown Timer in Control box Reversing sensor system for door curtain obstructions
Emergency Egress	Manual Hand Crank

STANDARD INCLUSIONS

Air Circulation Unit x2
Heated Frame – 240V Heat tracing for Door frame
Thermal Isolation mounting system
Lintel Brush Seal
Mandatory Heated Sill (*to be provided by others*)

WARRANTY

24 Months or 100,000 Cycles
*Std Warranty terms and conditions apply

OPTIONAL FEATURES

Activations	All Ulti Activation options can be applied
Motorisation	IP65 Rated 1.5kw Motor with Stainless Brake (for corrosive applications)
Mounting Options	LH Power Supply, Custom Control Box Position, LH Control Box, LH Motor, Front Mount Motor
Safety	Virtual Vision, Extended LED Countdown Timer LED Pre-Announce
Frame Colours	RAL3000, RAL5002, RAL6018, RAL7042, RAL9005, Custom Colour
Other Features	Wind retention upgrade