

# Ulti DuoTherm Air

## DOUBLE INSULATED HIGH PERFORMANCE DOOR

Combining the benefits of the standard DuoTherm, with an air curtain in one common frame, ensures the Ulti DuoTherm Air is ideally suited to managing extreme temperature or humidity differences. The innovative system delivers ultimate thermal insulation and can be applied to almost any entrance from a -35°C cold store through to high humidity ELAs.

### Ultimate Thermal Performance

At the heart of the Ulti DuoTherm Air is the integrated air curtain system. This unique, dual, lateral ventilation system controls the transmission of warm and moist air across the doorway while it is open, eliminating ice build-up and maintaining an effective environmental barrier at a low energy cost. When closed, the dual curtain design creates a dead air space filled with treated air, for ultimate insulation and thermal performance.



### Ideal for use in

- Refrigeration Industry
- Heated Facilities
- Environmental Loading Areas
- Chiller/Freezer Openings
- Supermarkets
- Food Manufacturing
- Chilled Logistics

### Productivity Plus

The Ulti DuoTherm Air has a standard opening speed of up to 1.8m per second. This enhanced speed allows the door to outperform any approaching traffic, maximising productivity, and minimising the chance of impact damage from forklifts. For those high-use doorways, traditionally kept open while through loading, the dual lateral ventilation system allows this level of productivity, while still providing an environmental barrier, ensuring enhanced energy and productivity savings.

### Low Maintenance

The innovative curtain edge profile ensures rapid movement within the self-lubricating polyethylene tracks while allowing the curtains to unzip from the guides in the event of an accidental impact, minimising damage to the door. Auto re-feed slots automatically re-feed the curtain, minimising downtime and maintenance costs.

### Versatile & Sustainable

Despite combining two traditionally separate systems, the Ulti DuoTherm Air remains compact and can be easily incorporated into restricted building clearances. Multiple upgrade options allow ultimate flexibility across multiple industries and applications. This next-generation freezer door outperforms all traditional freezer door types, allowing you to increase your energy savings while decreasing the carbon footprint of your facility.



STANDARD COMPLIANCE

Air Permeability	Class 1	Water Permeability	Class 1
Wind Loading	Class 2	Thermal Transmittance	2.2W/m²K
Safe Openings	Yes	Pressure Differential	Up to 40Pa

TECHNICAL SPECIFICATIONS

Application	Internal
Standard Size	4000mm W x 3500mm H
Minimum Size	2000mm W x 2000mm H
Maximum Size	6000mm W x 7000mm H
Opening Speed	1.8m/s (variable)
Closing Speed	0.8m/s (variable)
Operating Temperature	-35°C to +35°C (35° Max Temperature Differential)

STRUCTURE

Material	Galvanised Steel
Colour	Galvanised

CURTAIN

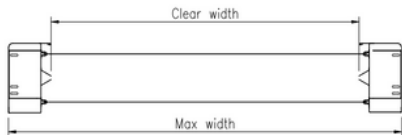
Material	900gr/m2 Reinforced PVC Curtain
Colour	RAL6018 (standard), RAL1003, RAL1015, RAL2009, RAL3002, RAL5002, RAL5010, RAL5012, RAL6026, RAL7016, RAL7035, RAL7037, RAL7042, RAL8017, RAL9005, RAL9006, RAL9010

SPACE REQUIREMENTS

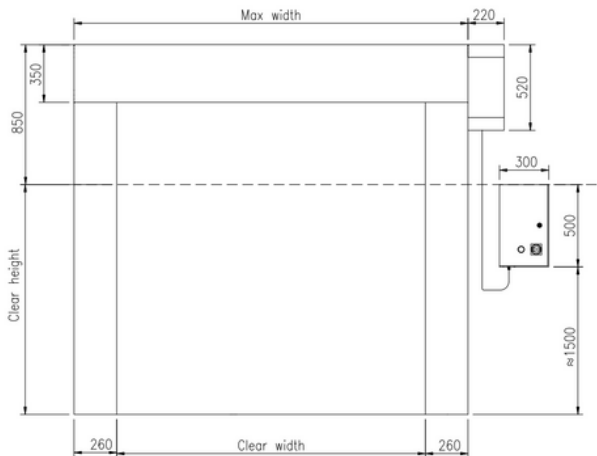
minimum clearances

Headroom	900mm
Sideroom	730mm (motor) 310mm (non-motor side)

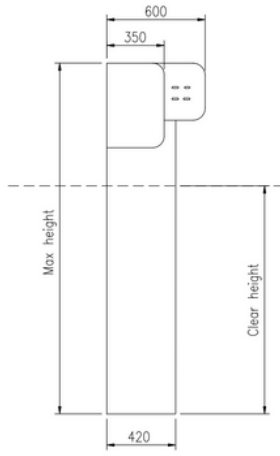
DIMENSIONS



FLOOR PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW

MOTORISATION

Motor	IP54 rated 1.5kW Heavy Duty 3 Phase Motor Drive and electromagnetic brake
Motor Position	RH Side
Control Panel	IP54 rated Metal Control box with inverter frequency controller – RH mounted
Power Supply	400V; 3 Phase+N+E; 32Amp Rated (dependent on door size) installed to right hand side of control box

ACTIVATIONS

Manual	Push button and Emergency stop button fitted to control box Manual Push button on opposite side
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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 obstructions to door curtain
Manual Opening	Manual Hand Crank

STANDARD INCLUSIONS

Air Circulation Unit for thermal isolation while the door is closed Integrated Air Curtain for when the door is open Performance rated to 1,000,000 cycles	
Heat Trace Power Rating	230V; Single Phase; 10A
Air System Power Rating	400V; 3 Phase; 20Amp

WARRANTY

12 Months or 100,000 Cycles *Std Warranty terms and conditions apply
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OPTIONAL FEATURES

Activations	All Ulti Activation options can be applied
Motorisation	IP65 Rated 1.5kw Motor with Stainless Brake (for corrosive applications)
Control Panel	IP54 Corrosion Resistant AISI:304 Stainless Steel
Mounting Options	LH Power Supply, LH Control Box, LH Motor, Custom Control Box Position
Frame Material	Corrosion Resistant AISI:316 Stainless Steel
Heated Frame	240V Heat Tracing Door Frame/Thermal Isolation mounting system for Freezer Applications (mandatory when -0°C)
Frame Colours	RAL9010, RAL colour of choice
Safety	Virtual Vision, LED-Pre Announce, LED Push Buttons, Remote LED Countdown Timer, 2500mm Light Curtain Sensors IP67
Curtain Design	FDA Grade Curtain – RAL9010 Custom Printed Curtain – Full curtain printing with photo or logo
Insulated Curtain	7mm PVC (1.3W/m²k) – subject to application review RAL1003, RAL2004, RAL3002, RAL5002, RAL7035, RAL9010
Manual Operation	Manual Hand Chain UPS Battery Backup