

Product Specification: Thermaster

Product application: Cold storage high traffic application

Key features:

Opening speed: Up to 2.0 m.s⁻¹

Closing speed: Up to 2.0 m.s⁻¹

Leaf format: Twin curtain vertical rapid roll with, 'Thermair', barrier

Support frame: Heavy duty galvanised steel fabricated legs with dual function door mass support and conditioned air plenum.

Frame finish: Standard PPC RAL 3020 – Traffic Red. Other standard RAL colours and stainless steel are available

Canopy: The door is fitted with a full width roller canopy and an integrated motor cover with finish to match the support frame

Technical Data:

Curtain specification: 900gsm PVC coated woven polyester

Temperature resistance: DIN 53372 -36degC to +80degC

Low flammability: DIN 75200 <100mm/min

Standard colour: RAL 1003 – Signal Yellow. Other colours are available

Curtain features: CFC free, UV resistant

Integrated wind bars to ensure curtain integrity

Anti-wear pads on wind bar ends

U Value: 0.124W.m².K

Controls:

Controller type: Microprocessor based frequency converter with low voltage controls

Supply: 230V, 1ph, 50Hz, 32A (Class C MCB)

Thermair generator: Integrated unit providing a low temperature conditioned air flow

Local controls: 3-way pushbutton station (OPEN ~ E-STOP ~ CLOSE)

Closing: Automatically via inbuilt adjustable timer

Extendibility: Prepared to accept a multitude of inputs from induction loop detectors, motion detectors, pull cords, pushbuttons etc.



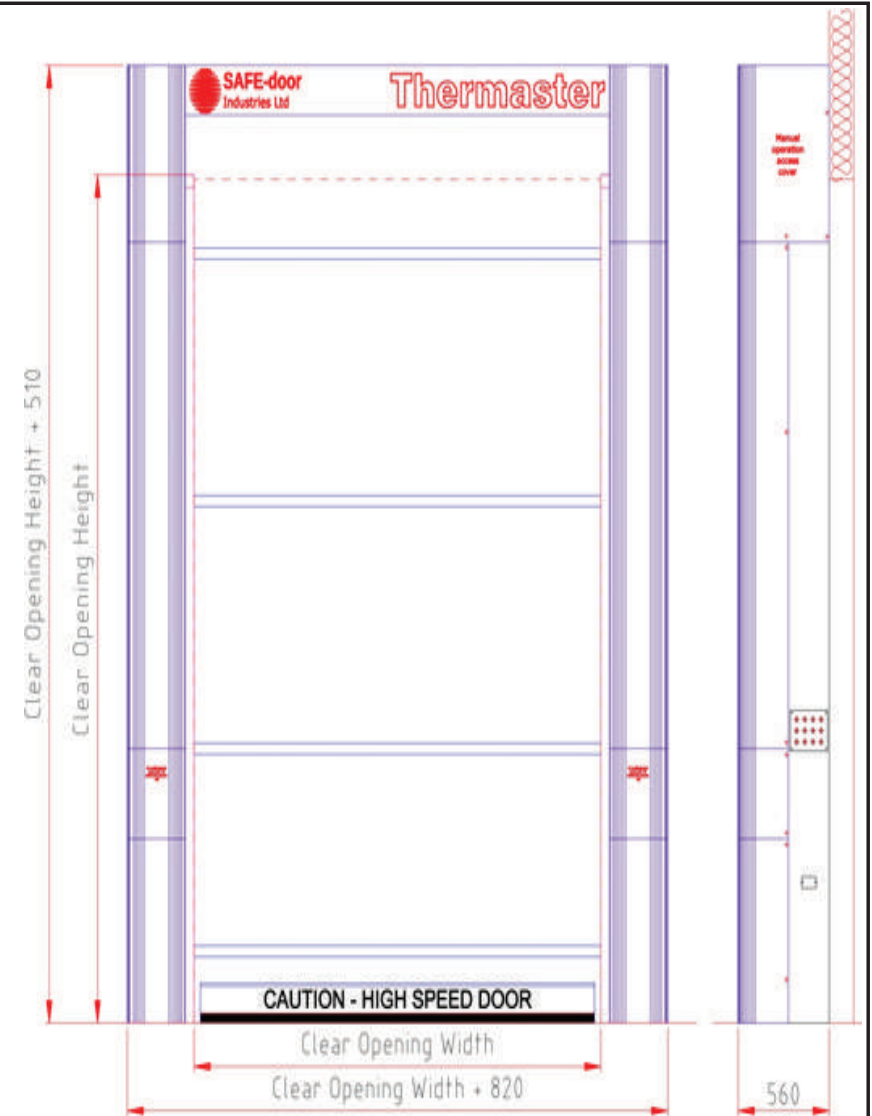
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Cabinet:	IP54 powder coated steel
Motor power:	High efficiency 1.5kW drive unit
Motor gearbox:	Specifically designed for use on high speed doors with an integrated safety gear and anti-fall device
Gearbox features:	Robust low maintenance drive unit with integrated absolute encoder for accurate positioning Self-adjusting motor brake with universal mounting either right hand or left hand of the door
Manual operation:	Hand crank applied to the rear of the motor to wind the door fabric
Optical safety:	The door area is monitored by twin IP65 sequential self-monitoring light curtains
Fault mode operation:	The door control automatically switches to 'dead-man' operation if a safety device fails
Standards:	The door complies with the requirements of EN 13241-1
Bottom beam:	Should the bottom beam be struck by a vehicle and displaced from the side guides the displaced curtain and beam is automatically fed back into the guides on the next opening cycle

Thermair core:

The door legs house air conditioning units installed at low level, each consuming a maximum of 2.7kW of electrical energy. When the door is closed, the controls create a standing pocket of conditioned air separating the freezer from the adjacent chill or ambient environment. When the door is opening, open, closing or when the air has been conditioned appropriately the Thermair generators automatically switch into standby mode.



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