ICe PIC

DOOR BLADE TYPE
Fully opaque, white in colour, 750g/m² double coated PVC coated polyester pre-contraint substrate, Fire Retardant to B1/BS 5438, DIN 4102 Acrylic Fluotop anti-dirt and anti-static surface treatment to both sides. Double-skinned construction separated by a thermal gap, with high frequency welded panels c/w toothed wind-anchors full height both edges of each blade.

DOOR BLADE COLOUR
White.

COLUMNS & SIDE GUIDES
Twin high-grade 6063-T6 aluminium extrusions, arranged back-to-back to facilitate the twin-blade with air-cavity design c/w full height twin nylon side-guide inserts which are machined to form a 'T' for the toothed wind-anchor system. Fundamental to the circulatory dry air conditioning system is the series of dehumidified air exhausts, strategically positioned and spaced full height to either left or right-side column configuration dependent on requirement.

TOP ROLLERS
Twin high-grade 6063-T6 aluminium extrusions terminating at each end with 30mm diameter EN8 bright mild steel stub shafts running in self-aligning bearing units. Both are speed synchronised via simplex chain drive with trans-torque collet type bushes incorporated for accurate and independent fine rotational adjustment.

TOP ROLL HOOD COVER
The fully formed powder coated hood cover constructed from Cr4 mild steel is an essential part of the conditioned air circulation system and additionally provides a warm air reservoir for the protection of the double top rolls, drive motor and transmission drive gear. Its smooth profile and finish contributes to the clean and hygienic conditions required of the food industry.

BOTTOM BEAM
High-grade 6063-T6 aluminium extrusion with rubber protective edge to provide an air seal with conveyor break when fully closed. Super-slim in design and construction allowing for a minimal gap / break in conveyor (if applicable) of only 85mm.

FINISH
De-greased, blast cleaned, then pre-treated with 'Akzo Nobel Interpon' anti-corrosive primer before being finished with 'Interpon AB' anti-bacterial hygienic powder coating in standard white to RAL 9003.

DRIVE
230vac/240vac motor with anti-fallback device. Manual crank included so the door can be opened manually in the event of a power failure.

SPEED
Door opening: up to 1.4 m/sec (approx.)
Door closing: 0.7 m/sec (approx.)

MAX. WIDTH & HEIGHT
Maximum width – 2000mm
Maximum height – 3300mm

CONTROL
230vac/240vac input, 24vdc output control panel complete with 'Open', 'Close', 'Stop' & 'Emergency Stop' buttons. Complete with inverter for soft start/stop variable speed operation. Factory tested and finally set up on site to suit customers' individual requirements. Supplied with 1m of cable with C-Form plug for quick connection. Can be mounted to the immediate left or right side of the door on a fixed mounting plate. Steel powder coated panel enclosure, IP65 rated.

DEHUMIDIFICATION
Dry conditioned processed air is generated and circulated through the twin-skinned door blades utilising the column exhausts as previously described. The Munters MCS300 dehumidifier, with upgraded fan, removes moisture from the process air thus preventing condensation and the formation of frost and ice that would otherwise inhibit the reliable operation of the ICe-PIC Door.

SAFETY
Photoelectric Cell
To inhibit the door from closing if an obstacle is detected adjacent to the front and/or rear of the doorway. IP67 rated thro' beam unit with heated lenses on transmitters and receivers fitted to enable the 'fail to safe' function to operate in sub-zero temperatures.

Contact Safety Edge
If the Bottom Beam comes into contact with any obstacle in its path, the low voltage wireless safety edge fitted full width of the bottom beam, immediately halts the downward travel of the door blade then reverses to its fully open position. Complies with latest 'Closing Forces Test' requirements.

Manual Opening
In the event of a power failure a manual crank handle is provided to insert into the motor gearbox for manually opening the door.