

Product Data Sheet



ISO Speed Cold H 100
Overhead High-Lift, High-Performance Door
with 100mm Insulated Curtain Panels



ISO Speed Cold™ High-Lift, high-speed doors provide excellent capability across temperature differences.

- Heated XL Smart Start™ NXT, NEMA 4X programmable control box
- Thermally isolated design for reduced heat transfer and optimal energy efficiency
- Speed: Up to 100 in /sec. open, 20 in / sec. close
- Exclusive non-contact guide technology reducing wear and noise
- Spring-less counterbalance lift assistance
- Integral, non-contact light grid entrapment protection feature. Ensures safety of equipment, people, and vehicles
- Emergency operation via chain hoist
- Full heated door seals for reliable operation
- 100 mm thick enhanced insulated panels for high temperature differences
- Optional Dehumidification Unit available
- Optional FAC Air Curtain Unit available
- 5 & 2 year warranty protection plan. 5 yrs. motor/gearbox and panels. 2 yrs. other mech./electrical
- Long service life with a low life-cycle cost

Technical Data	Imperial	Metric	Remark
Application	Exterior		Interior mounting only
Speed	Opening 60 in/s up to 100 in/s Closing 20 in/s	Opening 1.52 m/s up to 2.54 m/s Closing 0.5 m/s	Variable speed based on configuration
Control Panel	Heated XL Smart Start™ NXT W x H x D (in) 15 ¾ x 23 ¾ x 8		Standard, NEMA Type 4X / IP66
Roll-up Technology	Non-contact overhead guides with Thermoframe and Heating Elements		Standard
Door Construction	Overhead Rolling		
Size Range	Width 16 ft 4 in Height 16 ft 4 in	Width 4.98 m Height 4.98 m	Consult factory for taller openings
Guide Track Profile	W x D (in) 14 ¾ x 14 ¾	W x D (mm) 371 x 359	Chamfered corners at door curtain
Distance Back Formula	DB = ((2 x DH) - (DH + HR)) + 41 ¾ in		From face of host wall to end of OH tracks Max. Overall Ht. = 2x Opening Ht. + 23 in (.58 m)
Solid Slat (Panel) Profile	W x H (in) 4 x 9 ¾	W x H (mm) 102 x 244	Steel sandwiched PU foam insulation
Visible Material Height (Window Size)	Not Available for this Product		
Heated Air Curtain	2 speed Freezer Air Curtain & Control Unit		Optional (Warmer side)
Air Dehumidification Unit	Mechanical Dehumidifier & Control Unit		Optional (Warmer side)
Drive Mechanism	Direct-drive operator with chain lift mechanism		
Required Headroom	HR min. = 29½ in, HR max. = 18 ft 4 in	HR min. = 749 mm HR max. = 2.54 m	Standard
Drive Mechanics	Direct-drive operator with chain lift mechanism		
Counterbalance System	Belt mechanism and counterweights		
Braking	Control box activated 24V DC brake		Built-in, anti-fallback safety brake device integrated with operator worm gear
Cycleability / Maintenance	High Cyclability Inspect at 6 mo. Intervals		Consult factory for details
Actuators	Manually Operated Push Button Stations Touchless Motion / Presence Sensors		NEMA Type 4, 4X Rated
Safety Features	Built-in light grid, chain hoist open / close		Spring compensation assist
Resistance to Wind Load (Max per Door Width)	Door Width ≤ 16 ft 4 in = 22.0 psf (93 mph)	Door Width ≤ 4.98 m = 107.4 kg/m2 (41.5 m/s)	Per standard EN 12424, DASMA 108 Exposure B
Fire Resistance Rating (Behavior)	Non-rated, Non-conforming exit		Per 2012 IBC Section 1008
Manufacturer Warranty	5 & 2 years. Motor / gearbox and Panels (5). All other mech. / elec. (2)		Standard

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Materials & Finishes	Description		Remark
Guide Tracks, Covers & Guards (Guides)	11-ga. HDG steel tracks, 16-ga HDG steel covers		Zinc, Class G90 (0.9 oz/ft ²)
Door Headers, Spiral Guides, Drive Shaft Support	Control box activated 24V DC brake		Built-in, anti-fallback safety brake device integrated with operator worm gear
Counterbalance Assemblies	Counterweight Carriage and Reinf. Belts		
Weather Seals	Twin Vinyl (Heated), non-contact lintel (Heated)		
Solid Door Slats (Panels)	22-ga. Hot-dipped galvanized steel, with foamed-in-place polyurethane insulation core. Stucco texture both faces. Color RAL 9002		Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 11pcf
Bottom Profile (Bar) Door Slat	22-ga. Interlocking flat-faced, insulated steel panel, with (Heated) weather seal loop		Zinc, Class G40 (0.4 oz. per SF) Polyurethane foam density 11pcf
Electric Door Operator	Cast aluminum		(Heated) (incl. Heating Element)
Energy Analysis	Imperial	Metric	Remark
Air Leakage	Class 3		Per test EN 12427, (ASTM E283, ANSI/NFRC 400)
Water Penetration	Class 3		Per test EN 12425 (ASTM E547)
Thermal Resistance (R-value)	32.0 (ft ² x°F x hr)/BTU	5.64 (m ² x K)/W	Per test EN 717-1, DASMA TDS-163 (Without Visions)
Heat Transfer Coefficient (U-value)	0.10 BTU/(hr x ft ² x°F)	0.57 W/(m ² x K)	Per test EN 12667: 199997-11, DASMA TDS-105
Acoustic Insulation	STC 26, Rw 22 dB		Per test EN 717-2, ASTM E90 (Without Visions)
LEED Credit (Potential)	EAc2; Optimize Energy Performance (20 pts) MRc2; Environmental Product Declarations (2 pts) IEQc2; Low-Emitting Materials (3 pts) IEQc4; Thermal Comfort (1 pt) INc1; Innovation (5 pts) RPC1; Regional Priority Specific Credit (1 pt)		USGBC® LEED v4
Electrical	Description		Remark
Electric Door Operator	2.0 HP GfA Elektromaten F18		NEMA Type 3, IP54
Operating Voltage (Motor)	3 PH, 132v or 230v		From Control Box to Motor
Control Panel	5 kW variable frequency drive rated for operating voltage		NEMA Type 4X, IP66, UL/CUL Listed
Standard Power Requirement (to Control Box)	480 vAC, 3 PH, 60 Hz		
Full Load Amps	13.3 A		Operator
Disconnect	Fuse: 16 Amp, Class K		Supplied by Others



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