

# Product Data Sheet

HSD102

High Speed Freezer Door



The SCY High Speed Freezer Door is engineered for demanding temperature-controlled environments. Its high-speed opening and closing minimize air exchange, reducing temperature loss and improving energy efficiency.

The insulated door curtain features reinforced vinyl exterior layers and dual reflective foil insulation for thermal stability and durability. A zipper-style sealing system enhances airtightness, while the full 304 stainless steel frame, hood and motor covers provide corrosion resistance, support high-pressure washdowns and ensure long-term hygiene compliance.

The direct drive system with dual-axis delivers smooth, low-maintenance operation. Standard safety features include photoelectric sensors and a wireless safety edge. Multiple actuation options and smart controls offer flexibility across various industrial applications.

## Technical Information

|                          |  |               |
|--------------------------|--|---------------|
| Product Name             | High Speed Freezer Door  |               |
| Model Number             | HSD102   |               |
| Area of Use              | Indoor   |               |
| Max Size Range (W x H)*  | 5 m x 5 m  | 16 ft x 16 ft |
| Required Headroom        | 0.6 m  | 2 ft          |
| Opening Speed            | Up to 1.5 m/s  | Up to 59 in/s |
| Closing Speed            | Up to 0.8 m/s  | Up to 31 in/s |
| Drive Mechanics          | Direct drive operator (with manual crank)  |               |
| Control Panel            | NEMA Type 4 / 12 rated   |               |
| Safety Features          | Photoelectric sensor<br>Light curtain available (Optional)<br>Wireless edge activator (Optional) |               |
| Seal Mechanism           | Zipper   |               |
| Cycleability/Maintenance | Unlimited per day /Inspection every three months   |               |
| Manufacturer Warranty    | 5-Year Limited on drive motor and gearbox.<br>2-Year Limited on all other components             |               |

\* Other sizes may be available on request

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## Materials and Finishes

| Component                  | Description  | Notes                      |
|----------------------------|--|----------------------------|
| Curtain Colours Available  | Yellow, Green, Orange, Red, Grey, Blue                   |                            |
| Structure Material         | 304 Stainless steel                                      |                            |
| Door Curtain               | Reinforced vinyl exterior, dual reflective foil interior |                            |
| Curtain Temperature Rating | -29°C  | -20°F                      |
| Bottom Bar Profile         | Flexible soft bottom edge                                |                            |
| Electric Door Operator     | Servo motor control system/Cast aluminum                 |                            |
| Control Panel              | NEMA 4/12 rated Powder coated enclosure                  | 304 Stainless steel option |
| Hood and Motor Cover       | 304 Stainless steel                                      |                            |

## Energy Analysis

| Attribute                    | Description              | Notes                           |
|------------------------------|--------------------------|---------------------------------|
| Thermal Resistance (R-value) | 0.60 m <sup>2</sup> ·K/W | 3.41 hr·ft <sup>2</sup> ·°F/BTU |

## Electrical

| Attribute         | Description           | Notes |
|-------------------|-----------------------|-------|
| Operating Voltage | 208 ~ 240 V/1 PH      |       |
| Motor Power       | 0.75kW / 1.5kW/ 2.2kW |       |