

# Product Data Sheet

HSD200

High Speed Cleanroom Door



The SCY High Speed Cleanroom Door is designed for hygiene critical environments where air cleanliness, pressure stability, and contamination control are essential. Its rapid open-close cycles reduce air exchange, supporting stringent standards across pharmaceutical, food processing and electronics applications.

The smooth, durable curtain resists particle buildup and is easy to clean. Optional vision panels maintain visibility without compromising hygiene. Frame, hood and motor covers are stainless steel for corrosion resistance and high-pressure washdowns. Low-friction C-rail guide tracks ensure quiet, low-vibration operation and a tight seal. A soft bottom edge flexes on impact and resets automatically, minimizing downtime.

Advanced safety features include photoelectric sensors and wireless edge detection. Multiple actuation options and smart controls offer flexibility across various industrial applications.

## Technical Information

|                          |  |               |
|--------------------------|--|---------------|
| Product Name             | High Speed Cleanroom Door  |               |
| Model Number             | HSD200   |               |
| Area of Use              | Indoor   |               |
| Max Size Range (W x H)*  | 6 m x 6 m  | 19 ft x 19 ft |
| Required Headroom        | 0.3 m  | 1 ft          |
| Opening Speed            | Up to 2 m/s  | Up to 78 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            | Emergency stop button<br>Open/Close/Stop/Configuration push buttons<br>LCD display               |               |
| Safety Features          | Photoelectric sensor<br>Light curtain available (Optional)<br>Wireless edge activator (Optional) |               |
| Seal Mechanism           | C - rail (automatic reset after impact)  |               |
| Cycleability/Maintenance | Unlimited per day /Inspection every six 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, Orange, Red, Gray, Blue, White   |                  | TPU available in Blue, White |
| Structure Material         | 304 Stainless steel                      |                  |                              |
| Door Curtain               | 2.5 mm PVC sheet                         | 0.1 in PVC sheet | TPU sheet option             |
| Curtain Temperature Rating | -10°C to 50°C                            | 14°F to 122°F    |                              |
| Window Options             | Fixed sizes located on a predefined grid |                  |                              |
| 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)        | 0.40 m <sup>2</sup> ·K/W  | 2.27 (ft <sup>2</sup> x°F x hr)/BTU |       |
| Heat Transfer Coefficient (U-value) | 3.974 W/m <sup>2</sup> ·K | 0.7 BTU/(ft <sup>2</sup> x°F x hr)  |       |

## Electrical

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