

# 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 Open/Close/Stop/Configuration push buttons LCD display	
Safety Features	Photoelectric sensor Light curtain available (Optional) 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. 2-Year Limited on all other components	

\* Other sizes may be available on request

# Product Data Sheet

HSD200

High Speed Cleanroom Door



## 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		