

# Product Data Sheet

HD-CD 3025

HD SERIES Chain Drive Rubber Door



## Features



This high-speed, high-performance door system is particularly well suited for applications where high door speeds are required in openings that also experience very high traffic.

- The HD SERIES chain drive model HD-CD 3025 uses a high-performance helical gearhead operator and chain drive to open the door at up to 24 inches per second.
- This drive system is controlled by a programmable PLC and VFD with soft start and soft stop that provides smooth, quiet operation, reduced wear-and-tear and long life.
- The versatile PLC controller allows for easy addition of a wide range of activation and safety devices often required in high traffic door applications.
- Available for doors up to 20 feet wide and 30 feet high OR 25 feet wide and 22 feet high OR 30 feet wide and 17 feet high.

| Technical Data             |                             | Remark   |   |
|----------------------------|-----------------------------|--|---|
| Application                |                             | Interior / Exterior  |   |
| Speed                      | Opening                     | Closing  | "up to" maximum speed for this model depending on door size |
|                            | 24 in/s (0.6 m/s)           | 12 in/s (0.3 m/s)  |   |
| Control Box (W x H x D)    |                             | 20" x 24" x 11"<br>(510 mm x 610 mm x 280mm)   |   |
| Roll-up Technology         |                             | Roll tube with precision-welded axles  |   |
| Door Construction          | Size Range                  | 6'-0" (1830 mm) up to 30'-0" (9144 mm) wide<br>6'-0" (1830 mm) up to 30'-0" (9144 mm) high |   |
|                            | Guide Track Profile (W x D) | 5.25" x 9" (140 mm x 230 mm) /<br>9.25" x 9" (230 mm x 230 mm)                             |   |
|                            | Roll Tube Diameter          | 8.625" (219 mm) x 0.322" (8.2 mm) thick wall   |   |
|                            | Window Size                 | 16" x 16" (406 mm x 406 mm), 1/8" (3 mm) thick   |   |
| Required Headroom          |                             | 32.5" (825 mm) /<br>37" (940 mm)   |   |
| Drive Mechanism            |                             | Chain drive operator   |   |
| Counterbalance System      |                             | Not required   |   |
| Braking                    |                             | Control box activated DC disc brake  |   |
| Cycleability / Maintenance |                             | Unlimited per day /<br>Inspection every three months                                       |   |
| Safety Features            |                             | Integrated in-line light grid, manual chain hoist  |   |
| Resistance to Wind Load    |                             | 20 pounds per square foot (1.0 kPa) windclass 5  |   |
| Fire resistance rating     |                             | Non-rated, Non-conforming exit   |   |
| Warranty                   |                             | Curtain - Limited lifetime<br>Operator - 5 yrs or 1 million cycles / General - 2 yrs       |   |
|                            |                             | Operator - 5 years or 1 million cycles   |   |

# Product Data Sheet (Continued)

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| Materials and Finishes              |  |   |
|-------------------------------------|--|---|
| Curtain                             | Standard 1/4" (6 mm) / Black SBR (Styrene-Butadiene Rubber)                            | Optional: 1/4" (6 mm) Blue or Grey EPDM (Ethylene Propylene Diene Monomer), Black Nitrile, Black MSHA (Mine Safety and Health Administration) |
| Curtain Temperature Rating          | SBR: -40°F (-40°C) to 185°F (85°C)   | Grey EPDM: -63°F (-53°C) to 185°F (85°C)<br>Blue EPDM: -56°F (-49°C) to 185°F (85°C)  |
| Guides                              | 5" (127 mm) aluminum extrusion   |   |
| Mounting Angles                     | Rollformed high strength galvanized steel, 10 gauge with gussets                       |   |
| Guide Guards                        | Rollformed high strength galvanized steel, 10 gauge                                    |   |
| Bottom Bar                          | Extruded aluminum weighted bottom bar with patented pivoting arms                      |   |
| Endplates                           | Zinc dichormate plated steel   |   |
| Truss                               | Fabricated steel construction, painted   |   |
| Roll Tube                           | Galvanized steel   |   |
| Idler Barrel                        | Galvanized steel 6.25 in (159 mm) diameter x (4 mm) thick wall                         |   |
| Weather Seals                       | Self sealing rubber curtain/guides, EPDM loop seal on bottom bar, brush seal at lintel |   |
| Electric Door Operator              | HG helical gear high efficiency chain drive operator                                   |   |
| Control Box                         | Standard separate control panel with VFD and PLC                                       | Optional NEMA Type 4 or 4X (IP66) separate control box, contractors with relay logic or PLC   |
| Hood and Motor Cover (Optional)     | 18 gauge galvanized steel  |   |
| Energy Analysis                     |  |   |
| Visible Transmittance (Tvis)        |  |   |
| Solar Heat Gain Coefficient (SHGC)  |  |   |
| Thermal Resistance (R-value)        | 0.73 hr·ft <sup>2</sup> ·°F/BTU (0.13 m <sup>2</sup> ·K/W)                             | ASTM C518 – 10  |
| Heat Transfer Coefficient (U-value) | 1.36 BTU/hr·ft <sup>2</sup> ·°F (7.74 W/m <sup>2</sup> ·K)                             | ASTM C518 – 10  |
| Acoustic Insulation                 | Sound transmission Class (STC) 28 dB<br>Outdoor-Indoor transmission class (OITC) 23 dB | ASTM E 90-09 / E 413-10 / E1332 - 10a   |
| LEED Credit (Potential)             |  |   |
| Electrical                          |  |   |
| Electric Door Operator (Motor)      | Manaras Pro FDGH 2 to 5 hp (1.5 to 3.75 kW) varies by door size                        | NEMA Type 4 (4X Optional) / IP66  |
| Operating Voltage                   | 230-460 VAC, 3 PH, 60 Hz   | Operator voltage dependent on supply power voltage  |
| Control Box                         | 2 to 5 hp (1.5 to 3.75 kW) variable frequency drive rated for operator voltage         | NEMA Type 4 (4X Optional) / IP66<br>CSA Listed (Canada/US)  |
| Standard Power Requirement          | 208-600 VAC, 3 PH, 60 Hz   |   |
| Full Load Amps                      | 2.82 to 18.85 A  | Operator  |
| Disconnect                          | Fuse: 20 A, Class K  | Service to control box supplied by others   |



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