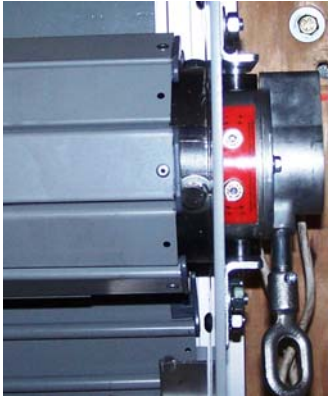
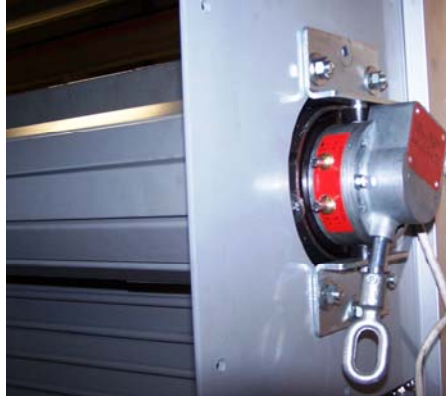


Cornell Tube Motor Operated Shutters, Grilles



Mechanism – Front View



Mechanism – Side View



Mechanism Cover – Side View

System Advantages

Cornell tube motor operators provide a product solution where strict dimensional limitations or aesthetic requirements limit the use of a standard motor operated unit. Tube motors are available for Counter Shutters, Counter Shutters with Integral Frame and Countertop, VisionAire® Grilles and Sentrygate® Grilles. Tube motor operated units reduce the clearance requirements compared with standard motor operated units.

Units are rated for a maximum of 10 cycles per day, 4 per hour. Initial testing allowed for 10 minutes of continuous cycling (10 cycles on maximum size unit) prior to the thermal overload engaging. When the cycle rating is exceeded, the operator must be allowed to cool for approximately 15 minutes in order for the thermal overload to disengage and return the operator to service. The thermal overload engages once the temperature inside the tube motor reaches a certain threshold to protect the internal components. An auxiliary crank will be provided as standard with all units.

Benefits

- Low profile design
- Pre-assembly of shaft assembly to include tube motor operator
- Installation time is further reduced because a drive chain is not required
- Quiet and smooth motor operation
- Auxiliary crank operation standard
- Unique bracket design that allows for removal/replacement of the tube motor without removing the shaft by utilizing the shaft support service bracket (provided that there is sufficient side clearance and FOW mounted)

Product Size Limits

- Counter Shutter – Maximum height of 21' 4" - Maximum height of 10' 0" - Maximum of 120 Square Feet
- Counter Shutters with Integral Frame and Sill – 11' 7" wide by 4' 10" high
- VisionAire Grilles/SentryGate Grilles - Size limits based on operator rating and curtain configuration

Product Applications

- Openings that have strict dimensional or aesthetic requirements
- Low cycle applications, rated for 10 cycles per day, 4 per hour

Options

- Majority of standard product options available.
- Some electrical options may require the inclusion of a "smart motor controller" which requires field mounting. The "smart motor controller" will be required when sensing edges, interlocks or three-button push-button stations are selected.

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