

# Manual or Motorized 24 Volt DC Curtain System

J&D Manufacturing's DC Curtain System offers easy installation and trouble free operation. With the sealed keder curtain and matching roll tube, the J&D Curtain System can be installed in a fraction of the time compared to conventional curtain systems.

## Curtain System

- End drive or center drive systems
- Single, two, or three tier – bottom or middle roll
- Fully adjustable for minimum winter ventilation or maximum summer ventilation
- Curtain is wound tightly around the roll tube extending the life of your curtain, and eliminating the collection of debris and habitat for rodents
- 12 ounce clear polyethylene curtain has 20% more tensile and tearing strength than 10 ounce curtain
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed curtain keder prevents tearing and fraying
- Keder slides easily into the roll tube for quick installation



## Drive Options

- Manual drive with optional shepherd's hook
- Motorized climbing drives with built-in adjustable limit switches and optional protective cable guide
- 2 year warranty on motors



## Control Options

- Manual control with power supply
- Programmable control with thermostat, temperature sensor and power supply
- Auxiliary multi-stage ventilation control

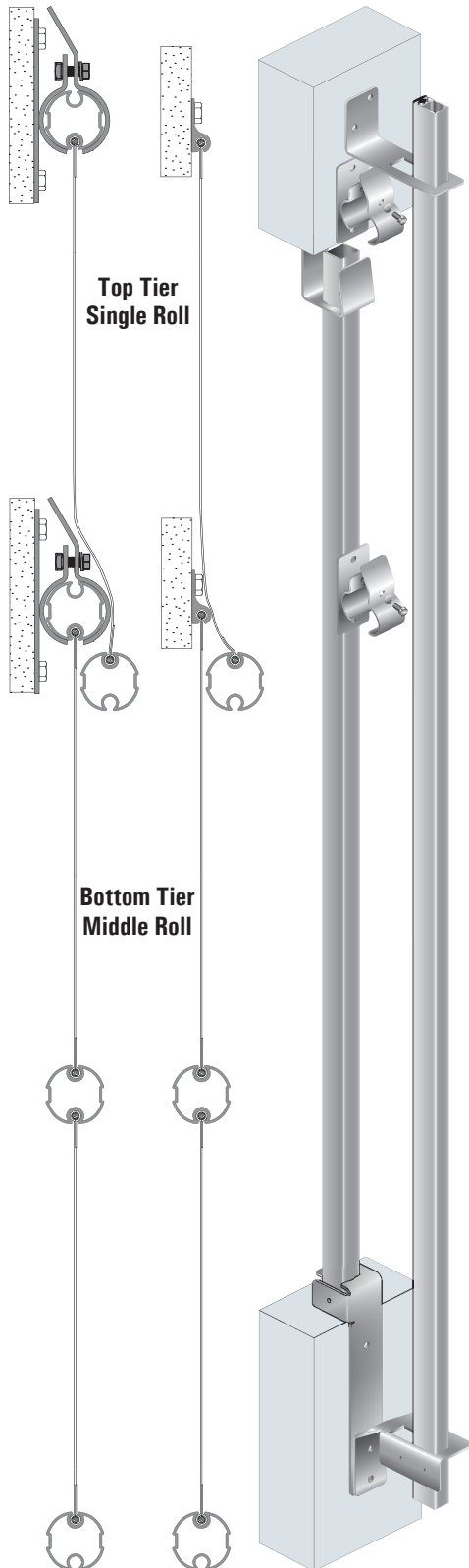
## Wind Pockets and Restraints

- Heavy gauge galvanized wind pockets to protect your drive system
- Easy access service door
- Optional wind pocket back panels
- Exterior and interior wind pipe and strap options:
  - Galvanized steel round wind pipe
  - Galvanized steel square wind pipe
  - Aluminum rectangular wind pipe with protective rubber cushion



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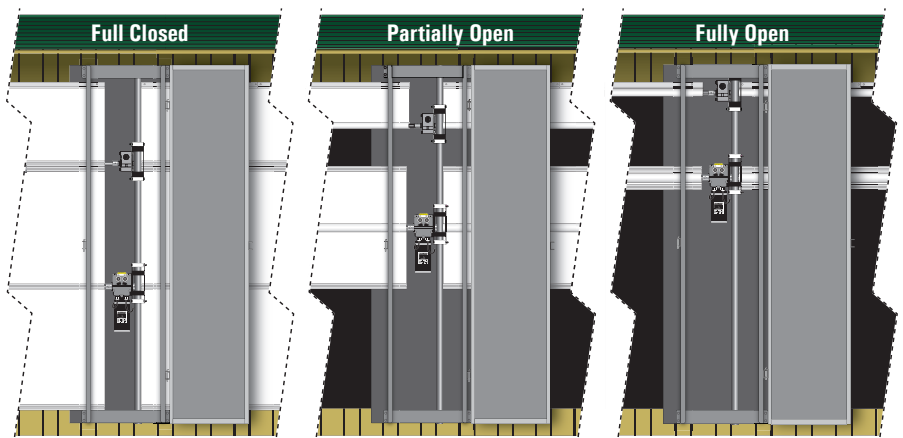
# Manual or Motorized 24 Volt DC Curtain System



## Common Curtain Arrangements

| End Drive<br>(maximum length 300' *) |   | Center Drive<br>(maximum length 150' * each side) |   |
|--------------------------------------|---|---|---|
| <b>Single Tier</b>                   | Bottom Roll   | <b>Single Tier</b>                                | Bottom Roll   |
| <b>Single Tier</b>                   | Middle Roll*  | <b>Single Tier</b>                                | Middle Roll*  |
| <b>Two Tier</b>                      | Top Tier - Bottom Roll<br>Bottom Tier - Bottom Roll                               | <b>Two Tier</b>                                   | Top Tier - Bottom Roll<br>Bottom Tier - Bottom Roll                               |
| <b>Two Tier</b>                      | Top Tier - Bottom Roll<br>Bottom Tier - Middle Roll*                              | <b>Two Tier</b>                                   | Top Tier - Bottom Roll<br>Bottom Tier - Middle Roll*                              |
| <b>Three Tier</b>                    | Top Tier - Bottom Roll<br>Middle Tier - Bottom Roll<br>Bottom Tier - Bottom Roll  | <b>Three Tier</b>                                 | Top Tier - Bottom Roll<br>Middle Tier - Bottom Roll<br>Bottom Tier - Bottom Roll  |
| <b>Three Tier</b>                    | Top Tier - Bottom Roll<br>Middle Tier - Bottom Roll<br>Bottom Tier - Middle Roll* | <b>Three Tier</b>                                 | Top Tier - Bottom Roll<br>Middle Tier - Bottom Roll<br>Bottom Tier - Middle Roll* |

\* If Middle Roll exceeds 4' in height it's maximum length must be reduced



Shown: Two Tier Center Drive, Top Tier - Manual Bottom Roll, Bottom Tier - Middle Roll

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# Curtain Material and Components

## Curtain Material

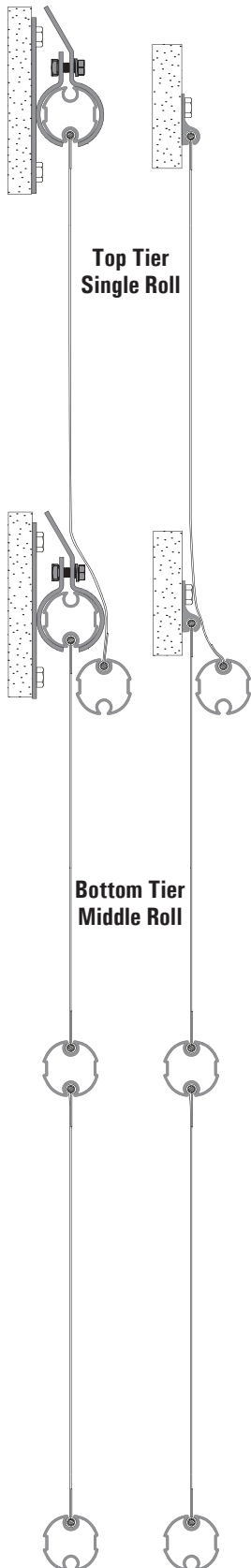
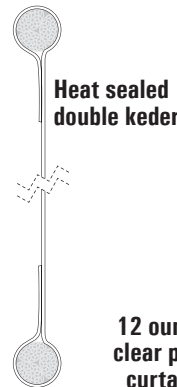
J&D Manufacturing's reinforced woven polyethylene curtain has a uniquely engineered coating for maximum durability and strength. Unlike sewn hems that can fray and unravel, J&D's curtain has a heat sealed keder that will not separate.

## Features

- 12 ounce clear polyethylene curtain with double stretching technology has 20% more tensile and tearing strength than 10 ounce curtain
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed curtain keder — not sewn or stitched — prevents tearing and fraying
- Double keder slides easily into the roll tube and tack strip for quick installation

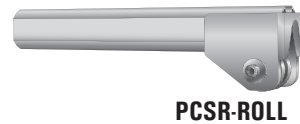
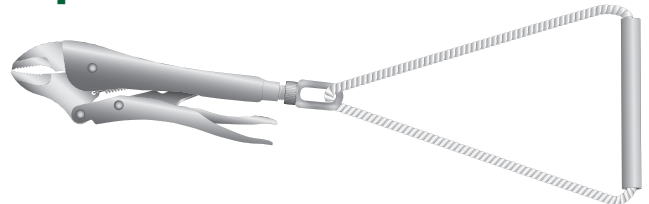
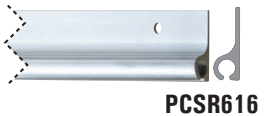
| Part#      | Description       | Finished Size |
|------------|-------------------|---------------|
| CPP1224DK  | 27½" Double Keder | 24" *         |
| CPP1236DK  | 36" Double Keder  | 32½"          |
| CPP1248DK  | 48" Double Keder  | 44½"          |
| CPP1260DK  | 60" Double Keder  | 56½"          |
| CPP1272DK  | 72" Double Keder  | 68½"          |
| CPP1284DK  | 84" Double Keder  | 80½"          |
| CPP1296DK  | 96" Double Keder  | 92½"          |
| CPP12108DK | 108" Double Keder | 104½"         |
| CPP12120DK | 120" Double Keder | 116½"         |
| CPP12132DK | 132" Double Keder | 128½"         |
| CPP12144DK | 144" Double Keder | 140½"         |

\* Minimum size



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## Curtain Installation Components



| Part#                     | Description   |
|---------------------------|---|
| <b>Curtain Roll Tube</b>  |   |
| PCSR600                   | Roll Tube, 50MM x 16' Long                          |
| PCSR605-P                 | Roll Tube Splice, w/Assembly Hardware*              |
| PCSR605-PB                | Roll Tube Splice, 20 per box, w/Assembly Hardware*  |
| PCSR617                   | Mount, Curtain Roll Tube, S.S. w/Assembly Hardware* |
| <b>Curtain Tack Strip</b> |   |
| PCSR616                   | Tack Strip, 16' Long for Curtain Systems            |

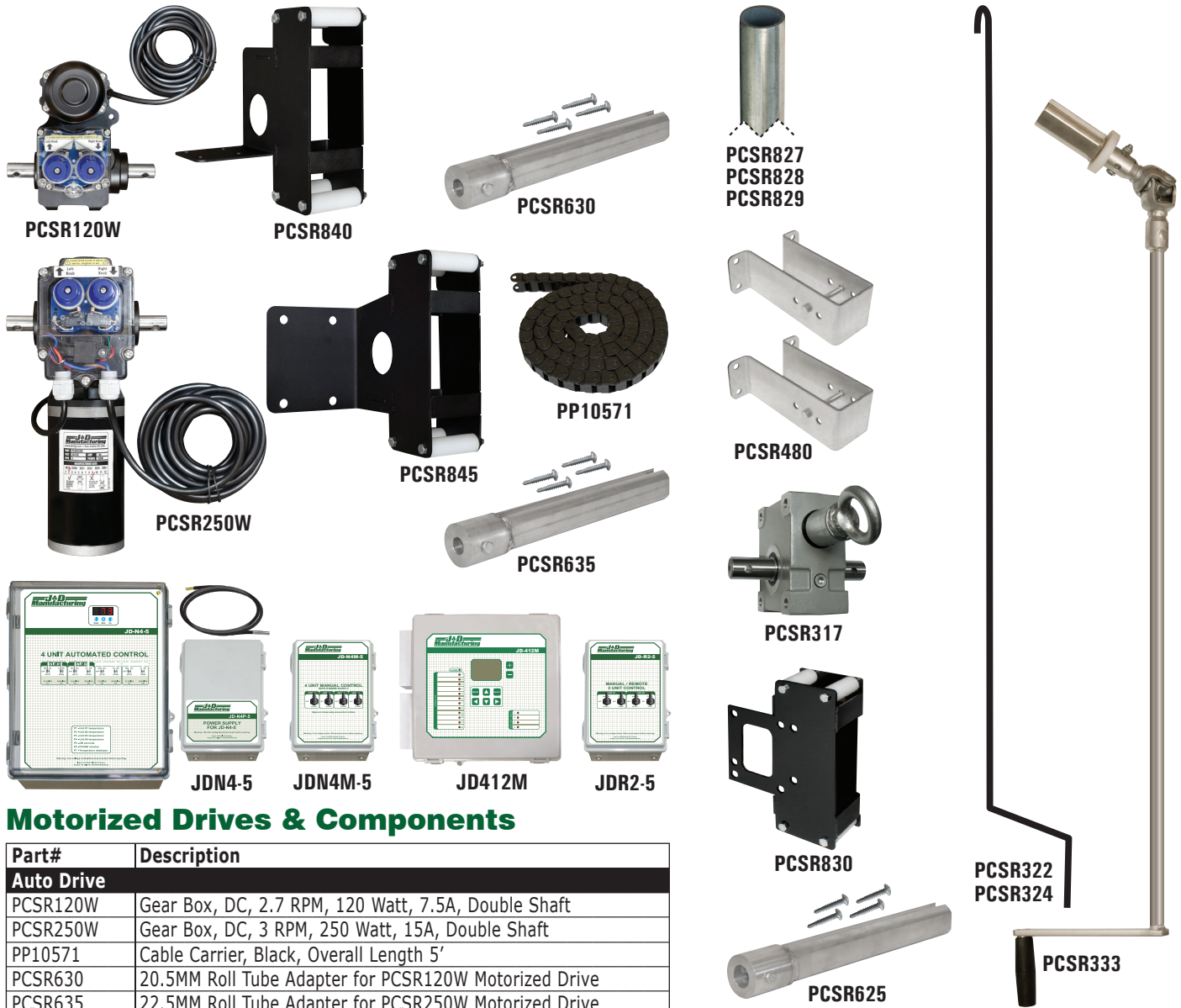
\* Includes assembly hardware only - installation hardware sold separately

## Installation Tools

| Part#     | Description               |
|-----------|---------------------------|
| PCSR498   | Stretching Tool, Curtain  |
| PCSR-ROLL | Curtain Guide, Roll Tube  |
| PCSR-TACK | Curtain Guide, Tack Strip |

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# Curtain Drives & Components



## Motorized Drives & Components

| Part#                      | Description  |
|----------------------------|--|
| <b>Auto Drive</b>          |  |
| PCSR120W                   | Gear Box, DC, 2.7 RPM, 120 Watt, 7.5A, Double Shaft              |
| PCSR250W                   | Gear Box, DC, 3 RPM, 250 Watt, 15A, Double Shaft                 |
| PP10571                    | Cable Carrier, Black, Overall Length 5'                          |
| PCSR630                    | 20.5MM Roll Tube Adapter for PCSR120W Motorized Drive            |
| PCSR635                    | 22.5MM Roll Tube Adapter for PCSR250W Motorized Drive            |
| PCSR840                    | Climbing Bracket, PCSR120W Motorized Drive, w/Hardware           |
| PCSR845                    | Climbing Bracket, PCSR250W Motorized Drive, w/Hardware           |
| PCSR827                    | Climbing Pole, 1 5/8", 10 Gauge, 14'                             |
| PCSR828                    | Climbing Pole, 1 5/8", 10 Gauge, 16'                             |
| PCSR480                    | Mounting Brackets, for Climbing Pole, Set (2)                    |
| <b>Controls</b>            |  |
| JDN4-5                     | Control, Natural Vent., 4 Units, Programmable, 10' T. Sens. & PS |
| JDN4M-5                    | Control, Natural Ventilation, 4 Units, Manual                    |
| JD412M                     | Control, 4 Var, 12 On-Off Ventilation Stages, 1HP Boards         |
| JDR2-5                     | Control, Manual and Remote for (2) 24 VDC Motors                 |
| <b>Control Accessories</b> |  |
| JD200410K                  | Temperature Sensor, with 1' Wire                                 |
| JD200410K-10               | Temperature Sensor, with 10' Wire                                |
| JD200410K-30               | Temperature Sensor, with 30' Wire                                |
| JD200410K-75               | Temperature Sensor, with 75' Wire                                |
| JD0024                     | Rain Sensor, (compatible with JDN4-5 only)                       |

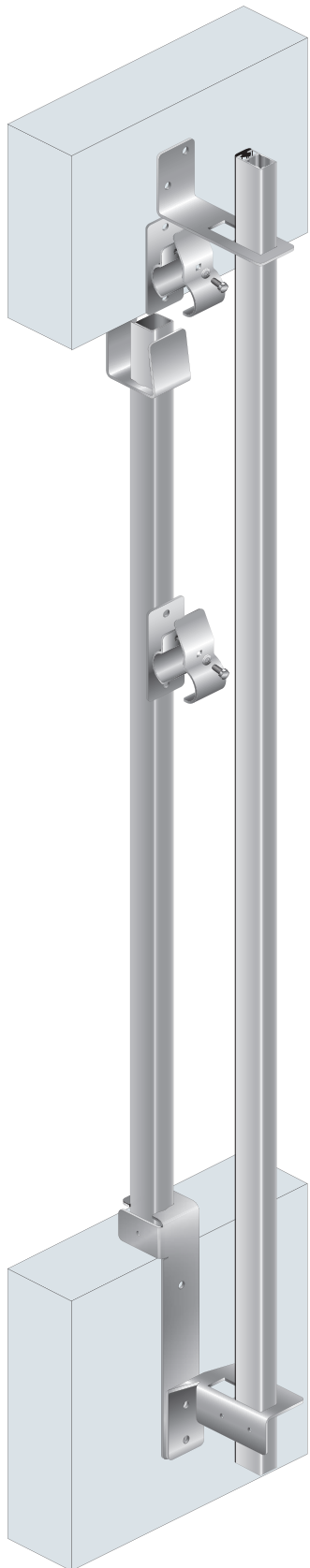
## Manual Drives & Components

| Part#                           | Description                                   |
|---------------------------------|---|
| <b>Manual Drive</b>             |   |
| PCSR317                         | Curtain Drive, Manual, Dual Shaft             |
| PCSR625                         | 26MM Roll Tube Adapter Manual Curtain Drive   |
| PCSR830                         | Climbing Bracket, Manual Drive, w/Hardware    |
| PCSR827                         | Climbing Pole, 1 5/8", 10 Gauge, 14'          |
| PCSR828                         | Climbing Pole, 1 5/8", 10 Gauge, 16'          |
| PCSR829                         | Climbing Pole, 1 5/8", 10 Gauge, 17'          |
| PCSR480                         | Mounting Brackets, for Climbing Pole, Set (2) |
| <b>Manual Drive Accessories</b> |   |
| PCSR322                         | Shepherds Hook Only, 6'                       |
| PCSR324                         | Shepherds Hook Only, 9'                       |
| <b>Other</b>                    |   |
| PCSR333                         | Hand Crank, 6' with U-Joint & Adapter         |

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# Curtain Wind Restraint Systems



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Shown is our most popular and recommended assembly.

- Interior 12 gauge square wind pipe with the PCSR617 curtain tube mounting bracket directly mounted, reducing the need for an additional cross member.
- Exterior wind pipe is our rectangular aluminum extrusion with rubber cushion, reducing noise and curtain wear.

## Features

### Rectangular Wind Pipe with Rubber Cushion

- Extruded aluminum 1"x1½" rectangular wind pipe with track for rubber cushion
- Rubber cushion reduces noise and prolongs curtain life by reducing wear
- 12', 14' and 16' lengths available

### Square Wind Pipe

- Heavy 12 gauge galvanized 1½" square pipe
- 14' and 16' lengths available
- When mounted as the interior wind pipe, the roll tube mounting brackets (*PCSR617*) may be directly attached - see figure

## System Structure

When calculating wind pipes needs, consider the following:

- J&D recommends wind pipe be placed on 6' centers. Building design and curtain dimensions may warrant alternative spacing
- Exterior wind pipe needs to be taller than the opening to accommodate mounting of curtain mounting brackets
- If you intend to attach the roll tube bracket directly to the interior wind pipe, the interior wind pipe must be heavy duty 12 gauge square tube
- Mounting surface (wood, metal, or concrete) determines necessary installation hardware components

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# Curtain Wind Restraint Systems

## 1 5/8" Round & 1 1/2" Square Wind Pipe System

| Part#   | Description                                       |
|---|---|
| <b>1 5/8" Round Pipes</b>                           |   |
| PCSR914   | Wind Pipe, 1 5/8" Round x 14', 18 Ga. Galv.       |
| PCSR915   | Wind Pipe, 1 5/8" Round x 16', 18 Ga. Galv.       |
| <b>1 1/2" Square Pipes</b>                          |   |
| PCSR930   | Wind Pipe, 1 1/2" Square x 14', 12 Ga. Galv.      |
| PCSR931   | Wind Pipe, 1 1/2" Square x 16', 12 Ga. Galv.      |
| <b>1 5/8" Round/1 1/2" Square Mounting Brackets</b> |   |
| PCSR910-P   | Bracket, Universal, Wind Pipe with Bottom Support |
| PCSR940   | Bracket, Outside Mount, Round/Square              |
| PCSR942   | Bracket, Inside Mount, Round/Square               |

**PCSR914**  
**PCSR915**  
1 5/8" Round  
Wind Pipe



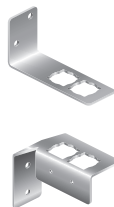
**PCSR930**  
**PCSR931**  
1 1/2" Square  
Wind Pipe



**PCSR910-P**  
**(SET)**  
Outside Mount  
Universal  
Bracket



**PCSR940**  
**(SET)**  
Outside Mount  
Round/Square  
Bracket



**PCSR942**  
**(SET)**  
Inside Mount  
Round/Square  
Bracket



## Rectangle Wind Pipe with Rubber Cushion System

| Part#                    | Description                                       |
|--------------------------|---|
| <b>Pipes</b>             |   |
| PCSR917                  | Wind Pipe, 1" x 1 1/2", Aluminum 12'              |
| PCSR918                  | Wind Pipe, 1" x 1 1/2", Aluminum 14'              |
| PCSR919                  | Wind Pipe, 1" x 1 1/2", Aluminum 16'              |
| <b>Rubber Cushion</b>    |   |
| PP10381                  | Rubber Cushion, Alum Wind Pipe, Roll 100'         |
| <b>Mounting Brackets</b> |   |
| PCSR910-P                | Bracket, Universal, Wind Pipe with Bottom Support |
| PCSR941                  | Bracket, Outside Mount, Rectangular               |
| PCSR943                  | Bracket, Inside Mount, Rectangular                |

**PCSR917**  
**PCSR918**  
**PCSR919**  
Rectangular  
Wind Pipe



**PP10381**  
Rubber  
Cushion

**PCSR910-P**  
**(SET)**  
Outside Mount  
Universal  
Bracket



**PCSR941**  
**(SET)**  
Outside Mount  
Rectangular  
Bracket



**PCSR943**  
**(SET)**  
Inside Mount  
Rectangular  
Bracket



## 1.9 Round Wind Pipe System

| Part#                    | Description                                |
|--------------------------|--|
| <b>Pipes</b>             |  |
| RPGT190011205            | Wind Pipe, 1.9" Round x 205", 11 Ga. Galv. |
| RPGT190011288            | Wind Pipe, 1.9" Round x 288", 11 Ga. Galv. |
| <b>Mounting Brackets</b> |  |
| PCSR944                  | Bracket, Outside Mount, 1.9 Round          |
| PCSR946                  | Bracket, Inside Mount, 1.9 Round           |

**RPGT190011205**  
**RPGT190011288**  
1.9" Round  
Wind Pipe



**PCSR944**  
**(SET)**  
Outside Mount  
Round/Square  
Bracket



**PCSR946**  
**(SET)**  
Inside Mount  
Round/Square  
Bracket



## Wind Strap System

| Part#   | Description                                  |
|---------|--|
| PCSR925 | Webbing, 1 7/8" Wide, 200 Yard Roll          |
| PCSR927 | Bracket, Top, for Curtain Wind Strap         |
| PCSR929 | Poly Strap Protector, for Curtain Wind Strap |
| PCSR935 | Winch, Curtain Wind Strap                    |

*Wind strap system requires top curtain be installed using roll tube and roll tube mounting brackets (PCSR617).*

**PCSR925**  
Webbing



**PCSR927**  
Top  
Bracket



**PCSR929**  
Protector



**PCSR935**  
Winch



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# Curtain Wind Pockets

## Features

### Wind Pocket Sets

- Heavy gauge galvanized drive pockets protect your drive system from the elements
- Hinge and latch system on drive wind pocket door for quick access
- Heavy gauge galvanized dead end covers to restrict side winds from lifting curtain
- End drive sets include 1 drive end cover and 1 dead end cover  
Center drive sets include 1 center drive cover and 2 dead end covers
- Wind pocket systems 13' and taller are spliced systems for ease of operation, installation and maintenance

### Back Panel Sets - Optional

- Used to protect and secure ends of curtain to reduce drafts
- Provides a mounting surface for drive components
- Galvanized with rolled side edges for added strength and safety

### Wind Pocket Top Cover - Accessory

- Top of drive wind pocket must be sheltered to block out snow and rain. If building overhang does not provide adequate shelter a wind pocket top cover is required.

## Ordering

### When ordering wind pockets you will need to know

- Is curtain system End Drive or Center Drive?
- What is the total width and height of the opening to be covered?
- Does structure provide required backer (*18" min. on dead ends and 29" min. for drive location*) or do you need to order corresponding back panel set?
- Will top of drive wind pocket be sufficiently covered by structure overhang to prevent rain and snow from entering or do you need to order a wind pocket top cover.
- What kind of installation hardware is required, wood, metal, or concrete? (Assembly hardware is included however due to range of building materials installation hardware must be ordered separate)



Center Drive Wind Pocket with Back Panel



Dead End Wind Pocket with Back Panel

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# Curtain Wind Pocket Sets

## End Drive Curtain Wind Pocket Sets

End Drive Wind Pockets Sets include:

- 1 Universal Right/Left Dead End Cover
- 1 Universal Right/Left End Drive Cover with Hinged Door/s
- Assembly Hardware

NOTE: Does not include installation hardware which must be ordered separately

| Part#      | Description          | Max. Opening Height | Optional Back Panel Sets |
|------------|----------------------|---------------------|--------------------------|
| PCSR975-4  | 4', End Drive Set    | 32"                 | PCSR974-4                |
| PCSR975-5  | 5', End Drive Set    | 44"                 | PCSR974-5                |
| PCSR975-6  | 6', End Drive Set    | 56"                 | PCSR974-6                |
| PCSR975-7  | 7', End Drive Set    | 68"                 | PCSR974-7                |
| PCSR975-8  | 8', End Drive Set    | 80"                 | PCSR974-8                |
| PCSR975-9  | 9', End Drive Set    | 92"                 | PCSR974-9                |
| PCSR975-10 | 10', End Drive Set   | 104"                | PCSR974-10               |
| PCSR975-11 | 11', End Drive Set   | 116"                | PCSR974-11               |
| PCSR975-12 | 12', End Drive Set   | 128"                | PCSR974-12               |
| PCSR975-13 | 13'* , End Drive Set | 140"                | PCSR974-13 *             |
| PCSR975-14 | 14'* , End Drive Set | 152"                | PCSR974-14 *             |
| PCSR975-15 | 15'* , End Drive Set | 164"                | PCSR974-15 *             |
| PCSR975-16 | 16'* , End Drive Set | 176"                | PCSR974-16 *             |
| PCSR975-18 | 18'* , End Drive Set | 200"                | PCSR974-18 *             |

| Accessory |                            |
|-----------|----------------------------|
| PCSR978   | Top Cover, for Wind Pocket |

\*Indicates spliced systems for ease of operation, installation and maintenance. Spliced sets are broken down as follows 13'(9'+4'), 14'(10'+4'), 15'(10'+5'), 16'(10'+6'), 18'(10'+8').



## Center Drive Curtain Wind Pocket Sets

Center Drive Wind Pockets Sets include

- 2 Universal Right/Left Dead End Cover
- 1 Center Drive Cover with Hinged Door/s
- Assembly Hardware

NOTE: Does not include installation hardware which must be ordered separately

| Part#      | Description             | Max. Opening Height | Optional Back Panel Sets |
|------------|-------------------------|---------------------|--------------------------|
| PCSR976-4  | 4', Center Drive Set    | 32"                 | PCSR977-4                |
| PCSR976-5  | 5', Center Drive Set    | 44"                 | PCSR977-5                |
| PCSR976-6  | 6', Center Drive Set    | 56"                 | PCSR977-6                |
| PCSR976-7  | 7', Center Drive Set    | 68"                 | PCSR977-7                |
| PCSR976-8  | 8', Center Drive Set    | 80"                 | PCSR977-8                |
| PCSR976-9  | 9', Center Drive Set    | 92"                 | PCSR977-9                |
| PCSR976-10 | 10', Center Drive Set   | 104"                | PCSR977-10               |
| PCSR976-11 | 11', Center Drive Set   | 116"                | PCSR977-11               |
| PCSR976-12 | 12', Center Drive Set   | 128"                | PCSR977-12               |
| PCSR976-13 | 13'* , Center Drive Set | 140"                | PCSR977-13 *             |
| PCSR976-14 | 14'* , Center Drive Set | 152"                | PCSR977-14 *             |
| PCSR976-15 | 15'* , Center Drive Set | 164"                | PCSR977-15 *             |
| PCSR976-16 | 16'* , Center Drive Set | 176"                | PCSR977-16 *             |
| PCSR976-18 | 18'* , Center Drive Set | 200"                | PCSR977-18 *             |

| Accessory |                            |
|-----------|----------------------------|
| PCSR978   | Top Cover, for Wind Pocket |

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