



# SpeediChannel®

System Installation

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## DiversiTech® SpeediChannel® System

SpeediChannel® is an innovative channel system used to cover air conditioning linesets. The two-part system has a base and a cover. The base is fastened to a wall or ceiling, then with the use of SpeediClip™ that snaps onto the molded center rail of the channel, cable ties can easily secure the linesets. The cover then simply snaps on top of the base and is screwed in for extreme durability.

Available in three widths - 3", 4", and 6", each channel is 6-1/2' long and is part of a complete system including couplings, elbows, covers and tees.

Manufactured from rigid PVC, the SpeediChannel® system is a natural color. The SpeediChannel® system can be painted as desired to match any wall color. The PVC used in the SpeediChannel® system is resistant to UV light. SpeediChannel® is easier to inventory, transport and install than competing brands, and the flat pack design reduces warehouse storage and contractor transport space. Tight fit corner design and installation accessories deliver the contractor a clean install every time.

DiversiTech recommends attaching the base to the wall or ceiling and the linesets to the system every 15" to allow for the system to carry the full weight of the line sets. The SpeediChannel system can also be used inside.



# INTRODUCTION

FEATURE	BENEFIT
SpeediClip™	SpeediClip simply slides into place on a railing molded into the inside of the SpeediChannel® allowing for single person installation.
Paintable	The SpeediChannel can be easily customized to any wall construction. *See painting specifications below.
Multiple colors	Comes in natural, white, or brown to blend with different construction options.
Large size	The widest SpeediChannel channel is a full 6 inches wide, unlike most others that are only 5-1/2 inches wide.
Tight fit corner and flat bottom channel design	The flat bottom channel sits on surfaces easier and fits into corners better. It can easily be silicone sealed against the wall.
Stainless steel screws	Stainless steel screws will not rust.
Flat wall escutcheon	Competitive products have a larger escutcheon that is not aesthetically pleasing and wastes space.
Integrated flex joint	Competitive products require a joiner piece to couple the flex joint to their systems. The SpeediChannel flex joint slides right into the end of the SpeediChannel with no additional joiner piece.
Long radius 90° bend	The long radius 90° bend allows for a larger bending radius for the lineset, making installation easier.
Single piece wall sleeve	Competitive products are multi-part which is cumbersome.
20mm drain line with double connections	Versatile - fits 16, 18, or 20mm drain line.
True Y connection	Drainline Y is inline. It does not branch.

## Painting Specifications

DiversiTech recommends any 100% acrylic latex or 100% acrylic latex with a urethane additive when painting SpeediChannel® products, due to the flexibility within the paint. Lacquers are not recommended with PVC products because lacquers are more brittle and won't flex with the channel. Some suggestions: Duration® by Sherwin Williams®, Manor Hall® paints by PPG, and Moorlife® by Benjamin Moore®. In addition to paint type, only light-to-medium colored paints (Light Reflectance Value of 55% units or greater) should be applied to SpeediChannel® or most any exterior PVC products. Light Reflectance Value (LRV) is a measurement that indicates how much light a color reflects. An LRV of 0% is absolute black and an LRV of 100% is perfectly reflective white. Always check a paint's LRV because some lighter paints may actually have a lower LRV than expected.

## Step 1

Attach the SpeediChannel® base to the wall about every 15 inches with screws suitable for the wall construction (siding, stucco, brick, etc.). Screw through the center of the molded rail. Slide the connecting piece (elbow, union, tee, etc.) under the SpeediChannel before attaching the end of the channel to the wall. When cutting lengths of SpeediChannel, allow 1/8" gap between the end of the SpeediChannel and the stop inside the fitting to allow for thermal expansion.



## Step 2

Slide one SpeediClip™ with cable tie about every 20 inches along the inside sliding rail.



### Step 3

Install the lineset, drain line, and wires inside the SpeediChannel®. Test the equipment installation prior to tightening the cable ties. Tighten the cable ties snug, but not so tight they damage the tubing insulation or kink the drain line. Trim excess length from the cable tie.





## Step 4

Attach the SpeediChannel® to the base.



### Step 5

Attach the fitting covers with the screws provided.

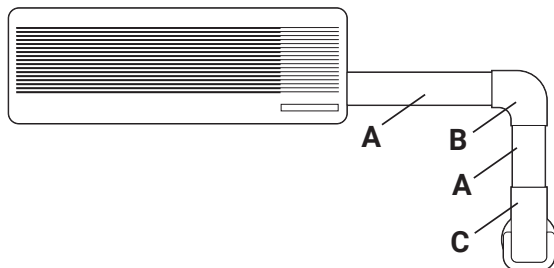


## Step 6

When complete, paint the SpeediChannel® to match surface of installation (if desired).



## Typical Detail of Indoor Installation



**A** - SpeediChannel® Lineset Cover

**B** - 90 Degree Flat Bend

**C** - Wall Penetration Cover

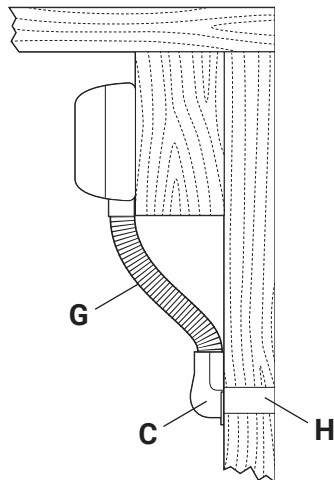
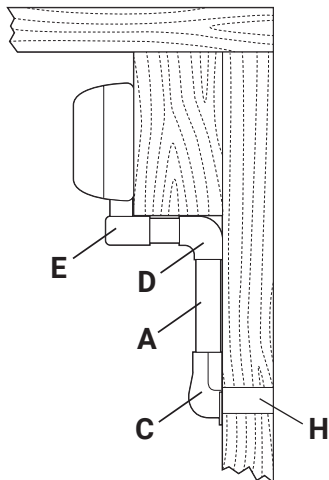
**D** - 90 Degree Inside Elbow

**E** - 90 Degree Outside Elbow

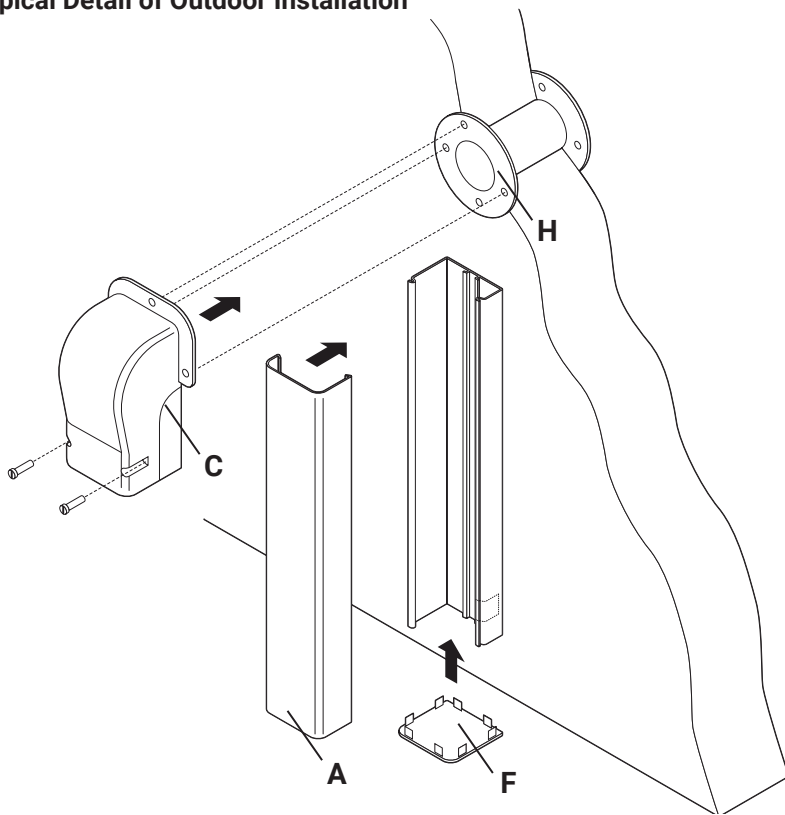
**F** - Cap

**G** - Flex Joint

**H** - Wall Penetration Sleeve

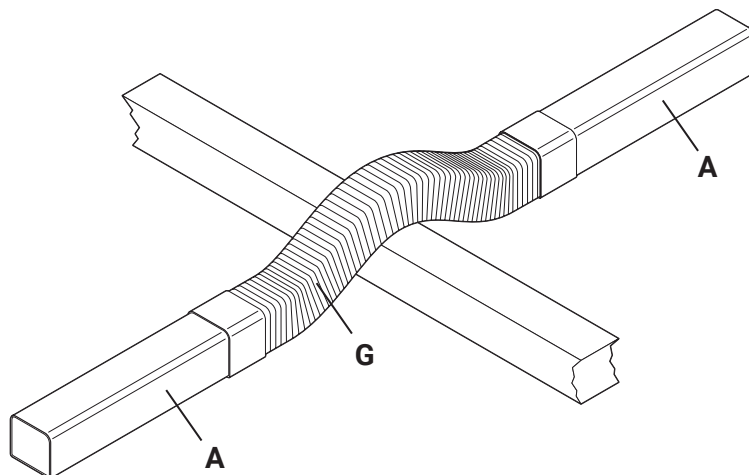


## Typical Detail of Outdoor Installation

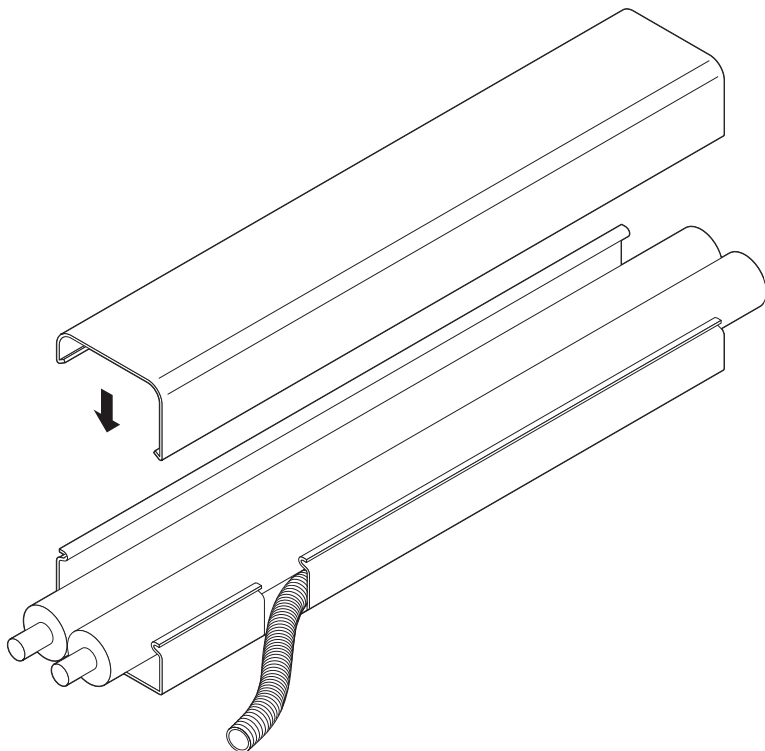


## Typical Detail of Flex Joint Application

- A** - SpeediChannel® Lineset Cover
- B** - 90 Degree Flat Bend
- C** - Wall Penetration Cover
- D** - 90 Degree Inside Elbow
- E** - 90 Degree Outside Elbow
- F** - Cap
- G** - Flex Joint
- H** - Wall Penetration Sleeve

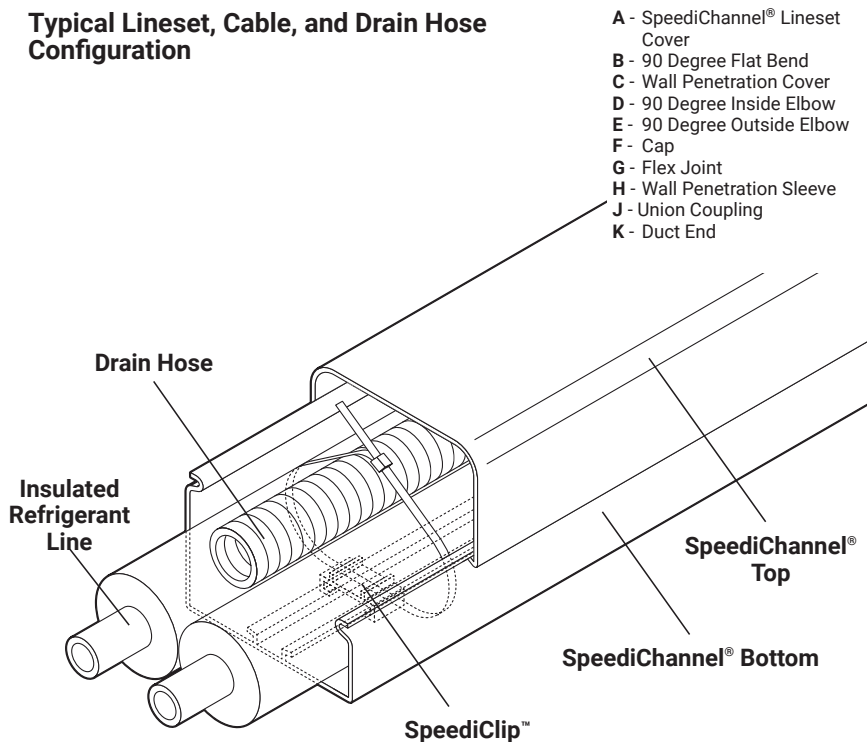


## Typical Detail of Cut-out for Drain Hose



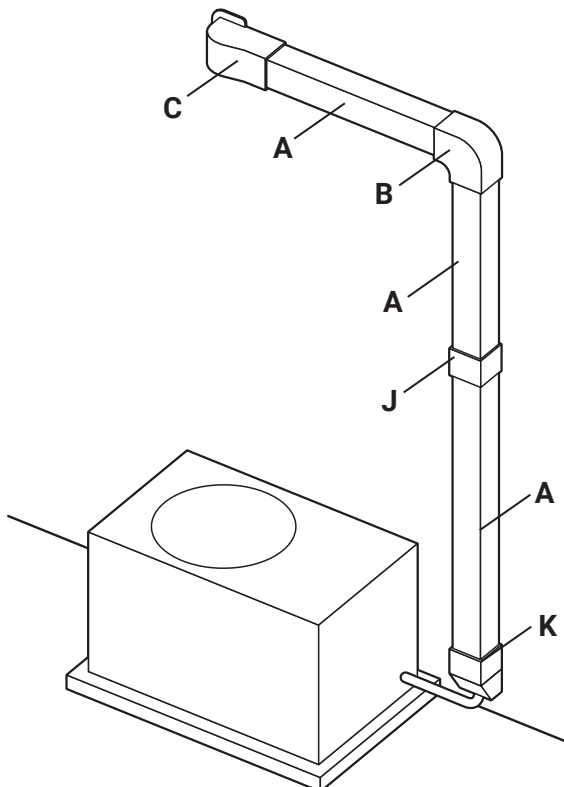
## INSTALLATION DIAGRAMS

### Typical Lineset, Cable, and Drain Hose Configuration



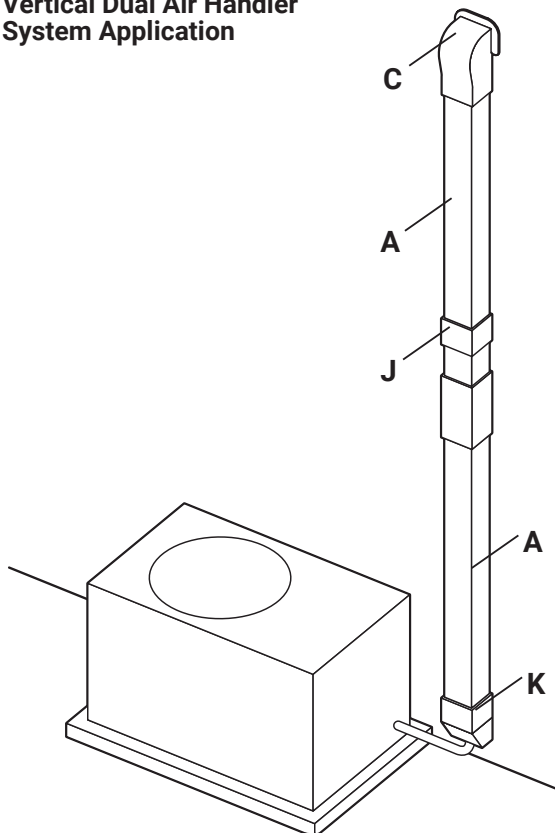


## Basic Application - 1 Air Handler



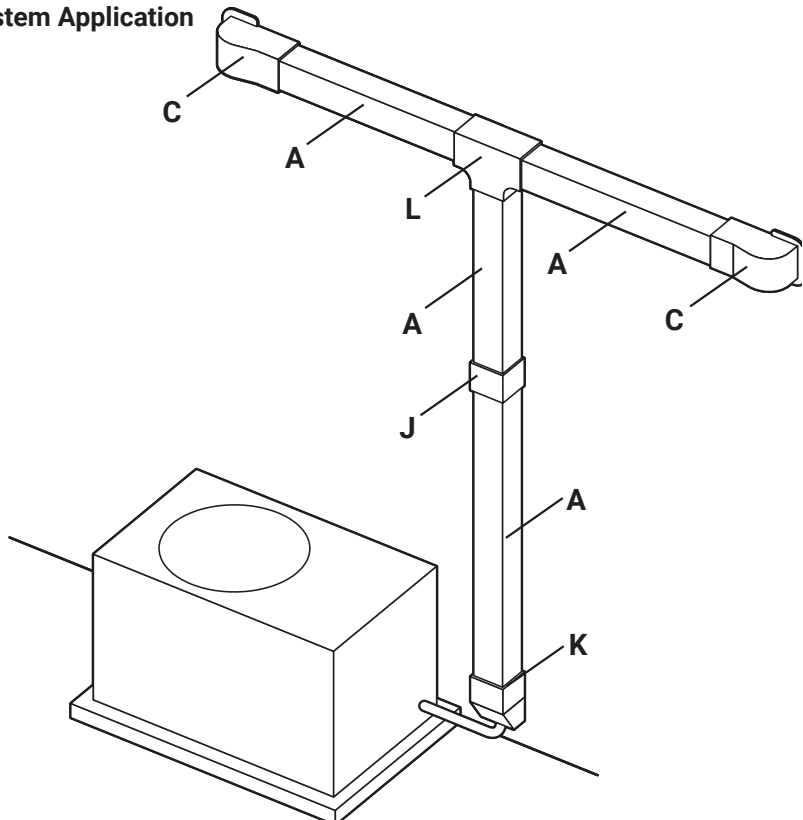
## INSTALLATION DIAGRAMS

### Vertical Dual Air Handler System Application



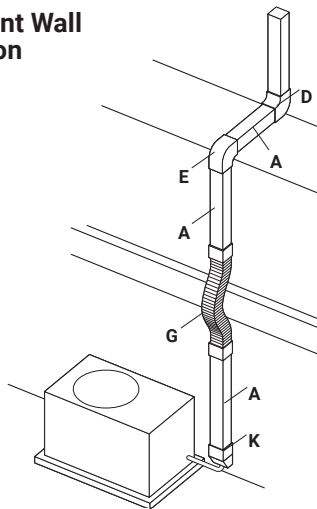
- A** - SpeediChannel® Lineset Cover
- B** - 90 Degree Flat Bend
- C** - Wall Penetration Cover
- D** - 90 Degree Inside Elbow
- E** - 90 Degree Outside Elbow
- F** - Cap
- G** - Flex Joint
- H** - Wall Penetration Sleeve
- J** - Union Coupling
- K** - Duct End
- L** - Reducer Coupling

# Horizontal Dual Air Handler System Application



# INSTALLATION DIAGRAMS

## Building with Different Wall Thickness Application

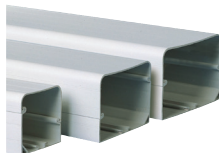


- A - SpeediChannel® Lineset Cover
- B - 90 Degree Flat Bend
- C - Wall Penetration Cover
- D - 90 Degree Inside Elbow
- E - 90 Degree Outside Elbow
- F - Cap
- G - Flex Joint
- H - Wall Penetration Sleeve
- J - Union Coupling
- K - Duct End
- L - Reducer Coupling

TECHNICAL SPEC.	DESCRIPTION
Color	Natural
Size	<b>230-D3A:</b> 3" x 2-1/2" OD <b>230-D4A:</b> 4" x 2-3/4" OD <b>230-D6:</b> 6" x 3-1/8" OD <b>Standard Length:</b> 78"
Material	Weather Resistant PVC, UV Stabilized and Fire Resistant
Temperature Range	4°F to 140°F
Weather Resistance	Tested to over 2,000 hours
Fixing Screw	Stainless Steel

## SpeediChannel®

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-D3A	3" SpeediChannel - 6-1/2' long, Natural	
230-D4A	4" SpeediChannel - 6-1/2' long, Natural	
230-D6	6" SpeediChannel - 6-1/2' long, Natural	
230-D3B	3" SpeediChannel - 6-1/2' long, Brown	
230-D4B	4" SpeediChannel - 6-1/2' long, Brown	
230-D3W	3" SpeediChannel - 6-1/2' long, White	
230-D4W	4" SpeediChannel - 6-1/2' long, White	
230-D6W	6" SpeediChannel - 6-1/2' long, White	



## Wall Penetration

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-WC3	3" Wall Penetration, Natural	
230-WC4	4" Wall Penetration, Natural	
230-WC6	6" Wall Penetration, Natural	
230-WC3B	3" Wall Penetration, Brown	
230-WC4B	4" Wall Penetration, Brown	
230-WC3W	3" Wall Penetration, White	
230-WC4W	4" Wall Penetration, White	
230-WC6W	6" Wall Penetration, White	
230-WS2	2-1/2" Wall Sleeve	
230-WS3	2-7/8" Wall Sleeve	



## Union Coupling

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-CP3	3" Union Coupling, Natural	
230-CP4	4" Union Coupling, Natural	
230-CP6	6" Union Coupling, Natural	
230-CP3B	3" Union Coupling, Brown	
230-CP4B	4" Union Coupling, Brown	
230-CP3W	3" Union Coupling, White	
230-CP4W	4" Union Coupling, White	
230-CP6W	6" Union Coupling, White	



# MINI COMPONENT GUIDE

## 90° Long Radius Flat Bend

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-LFB3	3" 90° Long Radius Flat Bend, Natural	
230-LFB4	4" 90° Long Radius Flat Bend, Natural	
230-LFB6	6" 90° Long Radius Flat Bend, Natural	
230-LFB3B	3" 90° Long Radius Flat Bend, Brown	
230-LFB4B	4" 90° Long Radius Flat Bend, Brown	
230-LFB3W	3" 90° Long Radius Flat Bend, White	
230-LFB4W	4" 90° Long Radius Flat Bend, White	
230-LFB6W	6" 90° Long Radius Flat Bend, White	



## 90° Flat Bend

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-FB3	3" 90° Flat Bend, Natural	
230-FB4	4" 90° Flat Bend, Natural	
230-FB6	6" 90° Flat Bend, Natural	
230-FB3B	3" 90° Flat Bend, Brown	
230-FB4B	4" 90° Flat Bend, Brown	
230-FB3W	3" 90° Flat Bend, White	
230-FB4W	4" 90° Flat Bend, White	
230-FB6W	6" 90° Flat Bend, White	



## 90° Inside Elbow

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-EB3	3" 90° Inside Elbow, Natural	
230-EB4	4" 90° Inside Elbow, Natural	
230-EB6	6" 90° Inside Elbow, Natural	
230-EB3B	3" 90° Inside Elbow, Brown	
230-EB4B	4" 90° Inside Elbow, Brown	
230-EB3W	3" 90° Inside Elbow, White	
230-EB4W	4" 90° Inside Elbow, White	
230-EB6W	6" 90° Inside Elbow, White	



## 90° Outside Elbow

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-EIN3	3" 90° Outside Elbow, Natural	
230-EIN4	4" 90° Outside Elbow, Natural	
230-EIN6	6" 90° Outside Elbow, Natural	
230-EIN3B	3" 90° Outside Elbow, Brown	
230-EIN4B	4" 90° Outside Elbow, Brown	
230-EIN3W	3" 90° Outside Elbow, White	
230-EIN4W	4" 90° Outside Elbow, White	
230-EIN6W	6" 90° Outside Elbow, White	



## 45° Flat Bend

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-FB453	3" 45° Flat Bend, Natural	
230-FB454	4" 45° Flat Bend, Natural	
230-FB456	6" 45° Flat Bend, Natural	
230-FB453B	3" 45° Flat Bend, Brown	
230-FB454B	4" 45° Flat Bend, Brown	
230-FB453W	3" 45° Flat Bend, White	
230-FB454W	4" 45° Flat Bend, White	
230-FB456W	6" 45° Flat Bend, White	



## T-Joint

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-TJ4	4" T-Joint, Natural	
230-TJ6	6" T-Joint, Natural	
230-TJ4B	4" T-Joint, Brown	
230-TJ4W	4" T-Joint, White	
230-TJ6W	6" T-Joint, White	



## Reducer Coupling

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-TC34	3" x 4" Reducer Coupling, Natural	
230-TC46	4" x 6" Reducer Coupling, Natural	
230-TC34W	3" x 4" Reducer Coupling, White	
230-TC46W	4" x 6" Reducer Coupling, White	



## Flex Joint

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-FJ3	3" Flex Joint, Natural	
230-FJ4	4" Flex Joint, Natural	



## Duct End

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-DE3	3" Duct End, Natural	
230-DE4	4" Duct End, Natural	
230-DE6	6" Duct End, Natural	
230-DE3B	3" Duct End, Brown	
230-DE4B	4" Duct End, Brown	
230-DE3W	3" Duct End, White	
230-DE4W	4" Duct End, White	
230-DE6W	6" Duct End, White	



## Cap

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-DC3	3" Cap, Natural	
230-DC4	4" Cap, Natural	
230-DC6	6" Cap, Natural	
230-DC3W	3" Cap, White	
230-DC4W	4" Cap, White	
230-DC6W	6" Cap, White	





## Flat Wall Escutcheon

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-FR3	3" Flat Wall Escutcheon, Natural	
230-FR4	4" Flat Wall Escutcheon, Natural	
230-FR6	6" Flat Wall Escutcheon, Natural	
230-FR3W	3" Flat Wall Escutcheon, White	
230-FR4W	4" Flat Wall Escutcheon, White	
230-FR6W	6" Flat Wall Escutcheon, White	



## Wall Escutcheon

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-WR3	3" Flat Wall Escutcheon, Natural	
230-WR4	4" Flat Wall Escutcheon, Natural	
230-WR6	6" Flat Wall Escutcheon, Natural	
230-WR3W	3" Flat Wall Escutcheon, White	
230-WR4W	4" Flat Wall Escutcheon, White	
230-WR6W	6" Flat Wall Escutcheon, White	



## Soffit Fittings

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-SF3	3" Soffit Fitting, Natural	
230-SF4	4" Soffit Fitting, Natural	
230-SF3W	3" Soffit Fitting, White	
230-SF4W	4" Soffit Fitting, White	



## Adjustable Flat Bend

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-AFB3	3" Adjustable Flat Bend, Natural	
230-AFB4	4" Adjustable Flat Bend, Natural	
230-AFB3W	3" Adjustable Flat Bend, White	
230-AFB4W	4" Adjustable Flat Bend, White	



# MINI COMPONENT GUIDE

## Flex Hose Connection Kit

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-FH3-KIT	3" Flex Hose Connection Kit, Natural	
230-FH4-KIT	4" Flex Hose Connection Kit, Natural	
230-FH3W-KIT	3" Flex Hose Connection Kit, White	
230-FH4W-KIT	4" Flex Hose Connection Kit, White	



## SpeediChannel Installation Kits

CAT. NO.	DESCRIPTION	QTY. NEEDED
230-IKC3	3" SpeediChannel Installation Kit, Natural	
230-IKC4	4" SpeediChannel Installation Kit, Natural	
230-IKC3W	3" SpeediChannel Installation Kit, White	
230-IKC4W	4" SpeediChannel Installation Kit, White	



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