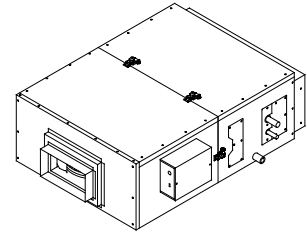




--Dedicated to High Quality



3In Option

VelocityPlus delivers conditioned air at high speed up to 2000 FPM to various zones through 3" flexible duct. It employs insulated flexible return and supply air ducts to provide great flexibility so that contractors can easily lay out system components such as outdoor unit, return air grill, indoor unit, air diffuser, etc. In new buildings, VelocityPlus saves noticeable room and construction cost. In retrofit work to historic buildings, VelocityPlus integrates greatly with existing architecture and aesthetics. Always, VelocityPlus reduces installation complexity and saves installation time and cost, decreases repair frequency...in the meantime system performance is well maintained.



Outlet

4 3/16"
4 15/16"



Spin-in

Insert Male Part from Inside and Female Part from Outside of Air Box and Twist Clockwise to Tight

CFM Per Outlet of Various Straight Length of 3" Duct

3" (ft)	Static Pressure (" WC) in ADC or SADC										
	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
12	68.96	75.54	81.59								
16	66.39	72.73	78.55								
20	64.09	70.21	75.83	81.07							
24	62.01	67.93	73.38	78.44							
28	60.13	65.87	71.14	76.05	80.67						
32	58.40	63.98	69.10	73.87	78.35						
36	56.82	62.24	67.23	71.87	76.23	80.35					
40	55.36	60.64	65.50	70.02	74.27	78.29					
44	54.00	59.16	63.90	68.31	72.45	76.37	80.10				
48	52.74	57.78	62.41	66.71	70.76	74.59	78.23	81.71			
52	51.57	56.49	61.01	65.23	69.18	72.93	76.49	79.89			
56	50.47	55.28	59.71	63.84	67.71	71.37	74.85	78.18	81.37		

Notes:

- 1. CFM in shaded or above areas may cause unacceptable noise and is not recommended.
- 2. Length is straight. Any bends need to be converted to straight length:

Per 3"x90 Degree Bend	Bending Radius		Equivalent Straight Length		Per 3"x 180 Degree Bend	Bending Radius		Equivalent Straight Length	
	3	Inch	40	Inch		3	Inch	54	Inch
6	Inch	31	Inch		6	Inch	45	Inch	
9	Inch	27	Inch		9	Inch	42	Inch	

Rated Thermal Delivery of 3" X 25' Ductwork at Different Elevations

Elevations	Cooling But/h Per Outlet				Heating But/h Per Outlet			
	High Fan	Med. Fan	Low Fan	Air Temp. F	High Fan	Med. Fan	Low Fan	Air Temp. F
0-3000ft	3,000	2,700	2,400	55-60	5,400	4,900	4,500	120-130
3001-6000ft	2,700	2,400	2,180	55-60	4,900	4,500	4,200	120-130
6001ft or above	2,400	2,180	2,000	55-60	4,500	4,200	4,000	120-130

3" Outlets Number/TON OF COOLING LOAD

Elevations	2 & 3 Tons			4 & 5 Tons		
	High Fan	Med. Fan	Low Fan	High Fan	Med. Fan	Low Fan
0-3000ft	4	5	6	4	5	6
3001-6000ft	5	6	7	5	6	7
6001ft or above	6	7	8	6	7	8

Duct Sections-Recommended Runs and Length (for elevation below 3000ft)

TONS	3"		Split 8" Flexible		Main Plenum		Return Duct (Only One Option)					
	Runs	Ft/Run	Runs	Ft/Run	Runs	Ft/Run	Branch Return Duct, If Any			Main Return Duct		
							Dia.	#	Length	Dia.	#	Length
1 1/2 - 2 Non-split	8-12	12-50	NA	NA	1	1.5-24	NA	NA	NA	14"	1	6'-25'
2 1/2 - 3 Non-Split	12-18	12-50	NA	NA	1	1.5-24	8"	2	<25	16"	1	6'-25'
2 1/2 - 3 Split	12-18	12-50	2	8-25	1	1.5-24	8"	2	<25	16"	1	6'-25'
3 1/2 - 4 Split	16-24	12-50	2	8-25	1	1.5-24	8" / 12"	4 / 2	<25	16"	1	6'-25'
4 - 5 Split	16-30	12-50	4	8-25	2	1.5-24	8" / 12"	4 / 2	<25	14"	2	6'-25'