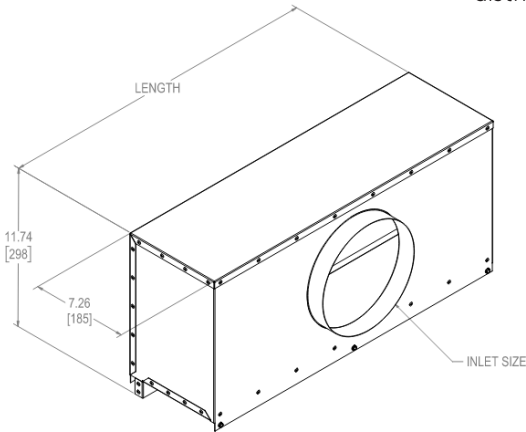


Recessed Channel Plenum

The Recessed Channel Plenum is designed to integrate seamlessly with the Node Recessed Channel system. Integrating into the shadow gap within the Node channel, the Recessed Channel Plenum provides options for air distribution in a horizontal or vertical throw pattern.



Product Features

- Diffuser is hidden from sight
- Select Node devices can be co-located with the diffuser
- High thermal comfort
- Available in 2ft., 4ft., 5ft., 600mm, 1200mm, 1500mm, and custom lengths

Imperial Performance Data

REC-D with 1 in. Slot Width, 1-Way Horizontal Throw

2' Engineered Plenum

Inlet Size	Flow Rate (CFM)	50	60	70	80	90	100	110	120
	Flow Rate (CFM/ft)	25	30	35	40	45	50	55	60
6 in.	Throw at 150-100-50 (ft)	6-8-15	7-10-16	8-12-18	9-13-19	10-14-20	11-15-21	12-16-22	13-16-23
	Static Pressure (in. w.g.)	0.051	0.070	0.092	0.117	0.143	0.173	0.206	0.240
	Sound (NC)	14	18	22	25	28	31	34	36
8 in.	Throw at 150-100-50 (ft)	6-8-15	7-10-16	8-12-18	9-13-19	10-14-20	11-15-21	12-16-22	13-16-23
	Static Pressure (in. w.g.)	0.053	0.069	0.090	0.112	0.139	0.168	0.200	0.232
	Sound (NC)	<10	14	18	22	25	29	30	33
10 in.	Throw at 150-100-50 (ft)	6-8-15	7-10-16	8-12-18	9-13-19	10-14-20	11-15-21	12-16-22	13-16-23
	Static Pressure (in. w.g.)	0.051	0.070	0.094	0.117	0.145	0.173	0.206	0.240
	Sound (NC)	<10	13	17	21	24	27	29	32
12 in.	Throw at 150-100-50 (ft)	6-8-15	7-10-16	8-12-18	9-13-19	10-14-20	11-15-21	12-16-22	13-16-23
	Static Pressure (in. w.g.)	0.050	0.069	0.090	0.114	0.140	0.170	0.200	0.234
	Sound (NC)	<10	15	19	22	25	28	30	33

4' Engineered Plenum

Inlet Size	Flow Rate (CFM)	80	100	120	140	160	180	200	220	240
	Flow Rate (CFM/ft)	20	25	30	35	40	45	50	55	60
6 in.	Throw at 150-100-50 (ft)	1-3-8	2-4-10	3-6-12	3-7-15	5-8-16	6-9-17	7-10-18	8-11-19	8-12-20
	Static Pressure (in. w.g.)	0.031	0.046	0.061	0.082	0.101	0.123	0.148	0.173	0.201
	Sound (NC)	<10	<10	17	22	24	30	33	35	38
8 in.	Throw at 150-100-50 (ft)	1-3-8	2-4-10	3-6-12	3-7-15	5-8-16	6-9-17	7-10-18	8-11-19	8-12-20
	Static Pressure (in. w.g.)	0.030	0.044	0.061	0.080	0.104	0.121	0.160	0.170	0.225
	Sound (NC)	<10	<10	13	19	24	27	31	33	36
10 in.	Throw at 150-100-50 (ft)	1-3-8	2-4-10	3-6-12	3-7-15	5-8-16	6-9-17	7-10-18	8-11-19	8-12-20
	Static Pressure (in. w.g.)	0.035	0.049	0.068	0.088	0.113	0.140	0.171	0.184	0.244
	Sound (NC)	<10	<10	<10	17	23	27	31	33	36
12 in.	Throw at 150-100-50 (ft)	1-3-8	2-4-10	3-6-12	3-7-15	5-8-16	6-9-17	7-10-18	8-11-19	8-12-20
	Static Pressure (in. w.g.)	0.035	0.049	0.066	0.090	0.116	0.141	0.159	0.207	0.217
	Sound (NC)	<10	<10	<10	16	22	27	29	33	34

5' Engineered Plenum

Inlet Size	Flow Rate (CFM)	90	120	150	180	210	240	270	300
	Flow Rate (CFM/ft)	18	24	30	36	42	48	54	60
6 in.	Throw at 150-100-50 (ft)	1-3-7	2-5-9	3-6-11	5-7-12	5-8-13	6-9-13	7-10-14	8-11-15
	Static Pressure (in. w.g.)	0.029	0.047	0.068	0.092	0.119	0.149	0.182	0.216
	Sound (NC)	<10	12	19	25	29	33	37	40
8 in.	Throw at 150-100-50 (ft)	1-3-7	2-5-9	3-6-11	5-7-12	5-8-13	6-9-13	7-10-14	8-11-15
	Static Pressure (in. w.g.)	0.026	0.041	0.059	0.084	0.111	0.144	0.158	0.189
	Sound (NC)	<10	<10	16	22	28	33	35	38
10 in.	Throw at 150-100-50 (ft)	1-3-7	2-5-9	3-6-11	5-7-12	5-8-13	6-9-13	7-10-14	8-11-15
	Static Pressure (in. w.g.)	0.030	0.047	0.068	0.090	0.117	0.146	0.177	0.210
	Sound (NC)	<10	<10	15	21	26	30	34	37
12 in.	Throw at 150-100-50 (ft)	1-3-7	2-5-9	3-6-11	5-7-12	5-8-13	6-9-13	7-10-14	8-11-15
	Static Pressure (in. w.g.)	0.026	0.041	0.060	0.083	0.107	0.134	0.162	0.195
	Sound (NC)	<10	<10	16	22	27	31	35	38

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of testing for Rating the Performance of Air Outlets and Inlets."
2. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
3. Throw data is based on supply air and room air being at isothermal conditions.
4. NC values are based on room absorption of 10 dB re 10⁻¹² watts and one diffuser.

Metric Performance Data

REC-D with 26mm Slot Width, 1-Way Horizontal Throw

600mm Engineered Plenum

Inlet Size	Flow Rate (l/s)	38	47	57	66	76	85	94	104	113
	Flow Rate (l/s/m)	31	39	47	55	63	71	79	87	94
150 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	8	11	15	20	25	31	37	43	50
	Sound (NC)	<10	<10	17	22	24	30	33	35	38
200 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	7	11	15	20	26	30	40	42	56
	Sound (NC)	<10	<10	13	19	24	27	31	33	36
250 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	9	12	17	22	28	35	43	46	61
	Sound (NC)	<10	<10	<10	17	23	27	31	33	36
300 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	9	12	16	22	29	35	40	52	54
	Sound (NC)	<10	<10	<10	16	22	27	29	33	34

1200mm Engineered Plenum

Inlet Size	Flow Rate (l/s)	38	47	57	66	76	85	94	104	113
	Flow Rate (l/s/m)	31	39	47	55	63	71	79	87	94
150 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	8	11	15	20	25	31	37	43	50
	Sound (NC)	<10	<10	17	22	24	30	33	35	38
200 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	7	11	15	20	26	30	40	42	56
	Sound (NC)	<10	<10	13	19	24	27	31	33	36
250 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	9	12	17	22	28	35	43	46	61
	Sound (NC)	<10	<10	<10	17	23	27	31	33	36
300 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.4	0.6-1.2-3	0.9-1.8-3.7	0.9-2.1-4.6	1.5-2.4-4.9	1.8-2.7-5.2	2.1-3-5.5	2.4-3.4-5.8	2.4-3.7-6.1
	Static Pressure (Pa)	9	12	16	22	29	35	40	52	54
	Sound (NC)	<10	<10	<10	16	22	27	29	33	34

1500mm Engineered Plenum

Inlet Size	Flow Rate (l/s)	42	57	71	85	99	113	127	142
	Flow Rate (l/s/m)	28	38	47	57	66	75	85	95
150 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.1	0.6-1.5-2.7	0.9-1.8-3.4	1.5-2.1-3.7	1.5-2.4-4	1.8-2.7-4	2.1-3-4.3	2.4-3.4-4.6
	Static Pressure (Pa)	7	12	17	23	30	37	45	54
	Sound (NC)	<10	12	19	25	29	33	37	40
200 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.1	0.6-1.5-2.7	0.9-1.8-3.4	1.5-2.1-3.7	1.5-2.4-4	1.8-2.7-4	2.1-3-4.3	2.4-3.4-4.6
	Static Pressure (Pa)	6	10	15	21	28	36	39	47
	Sound (NC)	<10	<10	16	22	28	33	35	38
250 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.1	0.6-1.5-2.7	0.9-1.8-3.4	1.5-2.1-3.7	1.5-2.4-4	1.8-2.7-4	2.1-3-4.3	2.4-3.4-4.6
	Static Pressure (Pa)	7	12	17	22	29	36	44	52
	Sound (NC)	<10	<10	15	21	26	30	34	37
300 mm	Throw at 0.75-0.50-0.25 (m)	0.3-0.9-2.1	0.6-1.5-2.7	0.9-1.8-3.4	1.5-2.1-3.7	1.5-2.4-4	1.8-2.7-4	2.1-3-4.3	2.4-3.4-4.6
	Static Pressure (Pa)	6	10	15	21	27	33	40	49
	Sound (NC)	<10	<10	16	22	27	31	35	38

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of testing for Rating the Performance of Air Outlets and Inlets."
2. Throw values are measured in meters for terminal velocities of 0.75 m/s (minimum), 0.50 m/s (middle), and 0.25 m/s (maximum).
3. Throw data is based on supply air and room air being at isothermal conditions.
4. NC values are based on room absorption of 10 dB re 10-12 watts and one diffuser.