

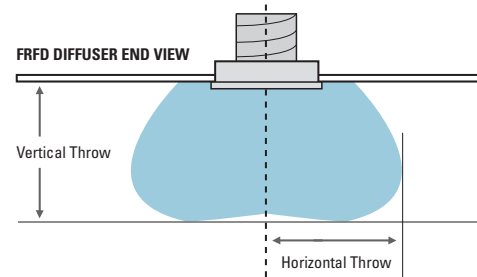
# PERFORMANCE DATA

## FRFD

Air Pattern	Unit Size (mm)	Inlet Size (mm)	Air Flow (L/s)	Static Pressure (Pa)	Total Pressure (Pa)	Sound (NC)	Throw (m) 0.51 - 0.38 - 0.25 m/s					
							Vertical			Horizontal		
							3 °C	7 °C	8 °C	3 °C	7 °C	8 °C
1-Way Radial Pattern	600 x 600	203	94	7	12	-	0.3 - 0.6 - 1.2	0.3 - 0.9 - 1.5	0.3 - 0.9 - 1.5	0.3 - 0.9 - 1.2	0.3 - 1.2 - 1.5	0.3 - 1.2 - 1.5
			142	16	27	23	0.3 - 0.6 - 1.2	0.3 - 0.9 - 1.5	0.6 - 1.2 - 1.8	0.6 - 1.2 - 1.5	0.6 - 1.2 - 1.8	0.6 - 1.2 - 1.8
			189	28	49	32	0.3 - 0.9 - 1.5	0.6 - 1.2 - 1.5	0.6 - 1.2 - 1.8	0.9 - 1.2 - 1.8	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1
		254	142	10	17	-	0.3 - 0.6 - 1.2	0.3 - 0.9 - 1.5	0.6 - 1.2 - 1.8	0.6 - 1.2 - 1.5	0.6 - 1.2 - 1.8	0.6 - 1.2 - 1.8
			189	22	30	26	0.3 - 0.9 - 1.5	0.6 - 1.2 - 1.5	0.6 - 1.2 - 1.8	0.9 - 1.2 - 1.8	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1
			283	49	68	38	0.6 - 1.2 - 2.1	0.9 - 1.5 - 2.4	0.9 - 1.8 - 2.7	1.2 - 1.8 - 2.4	1.5 - 2.1 - 2.7	1.5 - 2.1 - 2.7
	600 x 1200	254	189	8	17	20	0.3 - 0.9 - 1.2	0.9 - 1.2 - 1.5	0.9 - 1.5 - 1.8	0.9 - 0.9 - 1.2	1.2 - 1.2 - 1.5	1.2 - 1.5 - 1.5
			283	19	38	32	0.6 - 1.2 - 1.5	1.5 - 1.5 - 1.8	1.5 - 1.8 - 2.4	1.2 - 1.2 - 1.5	1.5 - 1.5 - 1.8	1.5 - 1.8 - 1.8
			378	33	67	41	1.2 - 1.5 - 1.8	1.8 - 2.1 - 2.4	2.1 - 2.4 - 2.7	1.2 - 1.5 - 1.8	1.5 - 1.8 - 1.8	1.8 - 2.1 - 2.1
		300	283	13	22	25	0.9 - 1.2 - 1.5	0.9 - 1.2 - 1.8	0.9 - 1.5 - 1.8	0.9 - 1.2 - 1.8	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1
			378	23	39	35	1.2 - 1.5 - 1.8	1.2 - 1.5 - 1.8	1.2 - 1.8 - 2.1	1.5 - 1.8 - 2.4	1.5 - 1.8 - 2.4	1.5 - 2.1 - 2.7
			472	36	61	42	1.2 - 1.5 - 1.8	1.2 - 1.8 - 2.1	1.2 - 1.8 - 2.4	1.5 - 2.1 - 2.7	1.8 - 2.4 - 2.7	2.1 - 2.7 - 3.0
2-Way Radial Pattern	600 x 600	203	94	6	11	-	0.3 - 0.9 - 0.9	0.3 - 0.9 - 1.5	0.6 - 1.2 - 1.8	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.9	0.3 - 0.9 - 0.9
			142	13	25	23	0.3 - 0.9 - 1.2	0.3 - 1.2 - 1.8	1.2 - 1.5 - 2.1	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.2	0.9 - 1.2 - 1.5
			189	24	44	32	0.9 - 1.2 - 1.8	0.9 - 1.2 - 1.8	0.9 - 1.5 - 2.1	1.2 - 1.8 - 2.4	0.9 - 1.2 - 1.8	1.2 - 1.8 - 2.1
		254	142	9	14	-	0.3 - 0.6 - 1.2	0.3 - 1.2 - 1.8	0.9 - 1.5 - 2.4	0.3 - 0.6 - 1.2	0.6 - 0.9 - 1.5	0.6 - 1.2 - 1.5
			189	16	24	23	0.9 - 1.2 - 1.8	1.2 - 1.5 - 2.1	1.5 - 1.8 - 2.4	0.9 - 1.2 - 1.8	1.2 - 1.5 - 1.8	1.2 - 1.5 - 1.8
			283	4	55	38	1.2 - 1.5 - 1.8	1.5 - 1.8 - 2.4	1.8 - 2.1 - 2.4	1.5 - 1.5 - 1.8	1.5 - 2.4 - 2.7	1.8 - 2.4 - 3.0
	600 x 1200	254	189	9	17	23	0.3 - 0.3 - 0.6	0.3 - 0.6 - 0.6	0.9 - 1.2 - 1.5	0.6 - 0.6 - 0.9	0.6 - 0.6 - 0.9	0.9 - 0.9 - 1.2
			283	20	39	35	0.6 - 0.6 - 0.9	1.2 - 1.5 - 1.8	1.5 - 1.8 - 2.1	0.9 - 1.2 - 1.2	1.2 - 1.5 - 1.8	1.5 - 1.8 - 1.8
			378	36	69	44	1.2 - 1.2 - 1.5	1.8 - 2.1 - 2.1	2.4 - 2.4 - 2.7	1.5 - 1.5 - 1.8	1.8 - 1.8 - 2.1	1.8 - 2.1 - 2.4
		300	283	13	23	28	0.3 - 0.6 - 0.9	1.2 - 1.5 - 1.8	1.2 - 1.5 - 1.8	0.3 - 0.6 - 0.9	0.6 - 0.9 - 0.9	0.9 - 1.2 - 1.2
			378	24	40	37	0.6 - 0.9 - 1.2	1.2 - 1.5 - 1.8	1.5 - 1.8 - 2.1	0.6 - 0.9 - 1.5	1.2 - 1.2 - 1.5	1.5 - 1.8 - 1.8
			472	37	63	43	0.9 - 1.2 - 1.2	1.5 - 1.5 - 1.8	1.8 - 1.8 - 2.1	1.2 - 1.5 - 1.8	1.5 - 1.8 - 2.1	1.8 - 2.1 - 2.1

### Performance Notes:

- Units are tested in accordance with ASHRAE Standard 70-2006.
- Air flow is in Liters per second, L/s.
- All pressures are in Pascals, Pa.
- The NC values, sound pressure level, are based on a room absorption of 10 dB re 10-12 watts and one diffuser.
- Blanks "-" indicate an NC level below 20
- Throws given in meters (m) to terminal velocities of .76 m/s (minimum), .51 m/s (middle), and .25 m/s (maximum).
- Throw values are based on supply air temperature differentials listed at the top of the table.



# PERFORMANCE DATA

## FRFD with Perforated Face

Air Pattern	Unit Size (mm)	Inlet Size (mm)	Air Flow (L/s)	Static Pressure (Pa)	Total Pressure (Pa)	Sound (NC)	Throw (m) 0.51 - 0.38 - 0.25 m/s					
							Vertical			Horizontal		
							3 °C	7 °C	8 °C	3 °C	7 °C	8 °C
1-Way Radial Pattern	600 x 600	254	94	4	9	-	0.3 - 0.3 - 0.6	0.3 - 0.6 - 1.2	0.3 - 0.9 - 1.8	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.9
			142	9	20	22	0.6 - 0.6 - 0.9	0.6 - 0.9 - 1.5	0.6 - 1.2 - 2.1	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.5
			189	16	36	33	0.6 - 0.6 - 1.2	0.6 - 1.2 - 1.8	0.6 - 1.2 - 2.1	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.5	0.6 - 0.9 - 1.5
		300	142	6	11	-	0.3 - 0.3 - 0.6	0.3 - 0.6 - 1.5	0.3 - 0.9 - 1.5	0.3 - 0.6 - 0.9	0.3 - 0.6 - 1.5	0.3 - 0.9 - 1.5
			189	11	20	23	0.3 - 0.6 - 0.9	0.3 - 0.9 - 1.5	0.6 - 1.2 - 2.1	0.3 - 0.6 - 1.2	0.6 - 0.9 - 1.5	0.6 - 0.9 - 1.5
			283	26	42	36	0.3 - 0.9 - 1.8	0.3 - 1.2 - 2.1	0.9 - 1.5 - 2.1	0.3 - 0.9 - 1.5	0.6 - 1.2 - 1.5	0.6 - 0.9 - 1.5
	600 x 1200	254	189	9	18	-	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.5	0.6 - 1.5 - 2.4	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.9	0.3 - 0.3 - 0.6
			283	21	40	29	0.6 - 0.9 - 1.8	0.9 - 1.2 - 1.8	1.5 - 1.8 - 2.4	0.3 - 0.6 - 0.9	0.6 - 0.6 - 0.9	0.6 - 0.9 - 1.2
			378	38	72	37	1.2 - 1.2 - 2.1	0.6 - 1.5 - 2.1	1.5 - 1.8 - 2.4	0.9 - 0.9 - 1.2	0.9 - 0.9 - 1.2	0.9 - 0.9 - 1.2
		300	283	17	26	23	0.9 - 1.2 - 1.5	1.2 - 1.5 - 1.8	1.5 - 1.8 - 2.1	0.6 - 0.6 - 0.9	0.9 - 0.9 - 1.2	0.9 - 0.9 - 1.2
			378	31	47	34	1.5 - 1.8 - 2.1	1.5 - 1.5 - 1.8	1.5 - 1.8 - 2.1	0.9 - 1.2 - 1.5	0.9 - 0.9 - 1.2	0.9 - 0.9 - 1.2
			472	49	74	39	1.5 - 1.8 - 2.1	1.5 - 1.8 - 2.1	2.1 - 2.1 - 2.4	0.9 - 0.9 - 0.9	1.2 - 1.2 - 1.5	1.2 - 1.2 - 1.5
2-Way Radial Pattern	600 x 600	203	94	3	8	-	0.3 - 0.3 - 0.6	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.9	0.3 - 0.3 - 0.6	0.0 - 0.3 - 0.3
			142	8	19	22	0.3 - 0.9 - 1.5	0.3 - 0.9 - 1.5	0.3 - 0.9 - 1.5	0.3 - 0.6 - 1.2	0.3 - 0.6 - 0.9	0.3 - 0.3 - 0.6
			189	14	35	30	0.3 - 0.9 - 1.8	0.3 - 0.9 - 1.8	0.3 - 0.9 - 1.8	0.3 - 0.9 - 1.2	0.6 - 0.9 - 1.2	0.3 - 0.6 - 0.9
		254	142	6	10	-	0.3 - 0.9 - 1.5	0.3 - 0.9 - 1.8	0.3 - 0.9 - 1.8	0.3 - 0.6 - 0.9	0.3 - 0.3 - 0.6	0.3 - 0.3 - 0.6
			189	10	19	23	0.6 - 0.9 - 1.8	0.6 - 1.5 - 2.1	0.6 - 1.5 - 2.1	0.6 - 0.9 - 1.2	0.6 - 0.9 - 0.9	0.6 - 0.6 - 0.6
			283	23	42	36	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.2
	600 x 1200	254	189	10	18	-	0.3 - 0.6 - 0.9	0.3 - 0.9 - 1.2	0.6 - 0.9 - 1.2	0.3 - 0.6 - 0.9	0.3 - 0.6 - 0.6	0.3 - 0.6 - 0.6
			283	22	41	33	0.6 - 0.9 - 1.5	0.6 - 1.2 - 1.8	0.6 - 1.2 - 2.1	0.3 - 0.6 - 0.9	0.6 - 0.6 - 0.9	0.6 - 0.6 - 0.6
			378	39	73	40	0.9 - 1.5 - 2.1	0.9 - 1.5 - 1.8	1.2 - 1.8 - 2.4	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.2	0.6 - 0.9 - 1.2
		300	283	16	25	26	0.3 - 0.9 - 1.5	0.3 - 1.2 - 2.1	0.6 - 1.2 - 2.1	0.3 - 0.3 - 0.6	0.3 - 0.3 - 0.6	0.3 - 0.3 - 0.6
			378	29	46	36	0.6 - 0.9 - 1.5	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1	0.3 - 0.3 - 0.6	0.6 - 0.6 - 0.9	0.6 - 0.6 - 0.9
			472	71	71	42	0.6 - 1.2 - 2.1	0.9 - 1.5 - 2.1	0.9 - 1.5 - 2.1	0.3 - 0.3 - 0.6	0.6 - 0.6 - 0.9	0.6 - 0.6 - 0.9

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- Blanks "-" indicate an NC level below 15
- Throws given in meters (m) to terminal velocities of .76 m/s (minimum), .51 m/s (middle), and .25 m/s (maximum).
- Throw values are based on supply air temperature differentials listed at the top of the table.