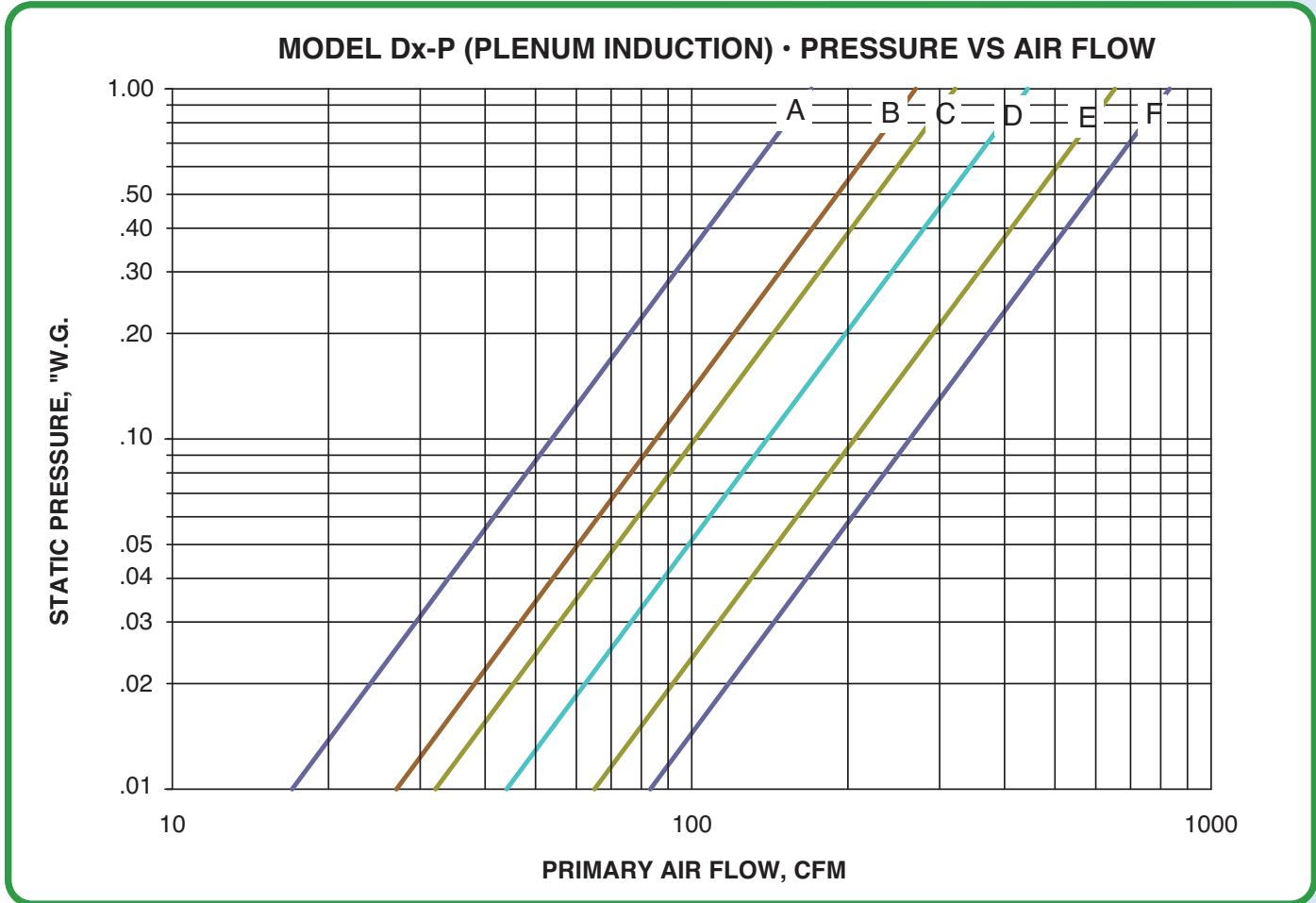
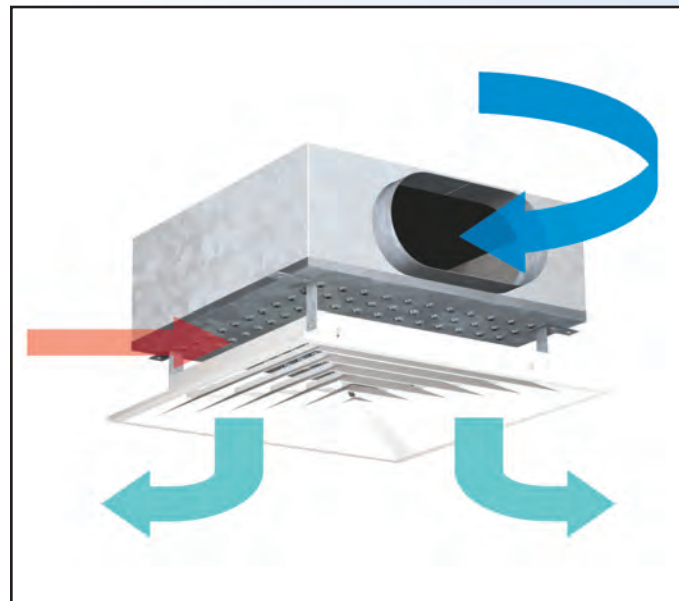


**GRAPH 2: STATIC PRESSURE VS PRIMARY AIR FLOW**



**Notes:**

- 1 Static pressure measured at commissioning port of unit
- 2 Curves A, B, C, D, E, and F represent increasing air flow capacities available based on the quantity and configuration of induction nozzles used.



Model Dx-P - Ceiling Plenum Induction

**TABLE 5: PRIMARY AIR FLOW & TOTAL AIR**

Static Pressure	CAPACITY											
	A		B		C		D		E		F	
	Primary Air	Total Air	Primary Air	Total Air	Primary Air	Total Air	Primary Air	Total Air	Primary Air	Total Air	Primary Air	Total Air
.02	24	48	38	73	45	84	63	113	92	140	116	151
.04	34	68	54	104	64	119	89	160	131	199	165	214
.06	42	83	66	127	79	146	109	196	160	243	202	262
.08	48	96	76	147	91	169	126	226	185	281	233	303
.10	54	108	85	164	102	189	140	253	206	314	260	338
.12	59	118	94	180	111	207	154	277	226	344	285	371
.14	64	127	101	194	120	223	166	299	244	371	308	400
.16	68	136	108	207	128	239	178	320	261	397	329	428
.18	72	144	115	220	136	253	188	339	277	421	349	454
.20	76	152	121	232	144	267	199	357	292	444	368	478
.22	80	159	127	243	151	280	208	375	306	466	386	502
.24	83	167	132	254	157	292	218	392	320	486	403	524
.26	87	173	138	264	164	304	226	408	333	506	420	546
.28	90	180	143	274	170	316	235	423	346	525	435	566
.30	93	186	148	284	176	327	243	438	358	544	451	586
.32	96	192	153	293	182	338	251	452	369	561	466	605
.34	99	198	157	302	187	348	259	466	381	579	480	624
.36	102	204	162	311	193	358	266	480	392	596	494	642
.38	105	210	166	320	198	368	274	493	403	612	507	660
.40	108	215	171	328	203	378	281	505	413	628	521	677
.42	110	220	175	336	208	387	288	518	423	643	533	693

**Notes:**

1. Static pressure measured at commissioning port of unit, inches w.g.
2. Primary Air and Total Air, CFM.
3. Induction Air = Total Air – Primary Air.
4. Capacity A, B, C, D, E, and F represent increasing air flow capacities available based on the quantity and configuration of induction nozzles used.

**TABLE 6: COOLING  
MIXED DISCHARGE TEMPERATURE**

CAPACITY	PRIMARY TEMP	PLENUM AIR TEMPERATURE			
		71°F	73°F	75°F	78°F
<b>A</b>	45°F	58.1	59.1	60.1	61.1
	47°F	59.1	60.1	61.1	62.7
	49°F	60.1	61.1	62.1	63.6
	51°F	61.1	62.1	63.1	64.6
	53°F	62.1	63.1	64.1	65.6
	55°F	63.1	64.1	65.1	66.6
<b>B</b>	45°F	57.5	58.4	59.4	60.8
	47°F	58.5	59.5	60.4	61.9
	49°F	59.5	60.5	61.5	62.9
	51°F	60.6	61.5	62.5	63.9
	53°F	61.6	62.6	63.5	65.0
	55°F	62.7	63.6	64.6	66.0
<b>C</b>	45°F	57.0	57.9	58.9	60.3
	47°F	58.1	59.0	59.9	61.3
	49°F	59.2	60.1	61.0	62.4
	51°F	60.2	61.2	62.1	63.5
	53°F	61.3	62.2	63.2	64.6
	55°F	62.4	63.2	64.2	65.6
<b>D</b>	45°F	56.6	57.4	58.3	59.7
	47°F	57.7	58.6	59.4	60.8
	49°F	58.8	59.7	60.6	61.9
	51°F	59.9	60.8	61.7	63.0
	53°F	61.0	61.9	62.8	64.1
	55°F	62.1	63.0	63.9	65.2
<b>E</b>	45°F	53.9	54.6	55.3	56.3
	47°F	55.2	55.9	56.6	57.6
	49°F	56.5	57.2	57.9	58.9
	51°F	57.8	58.5	59.2	60.2
	53°F	59.2	59.8	60.5	61.9
	55°F	60.5	61.2	61.8	62.9
<b>F</b>	45°F	51.0	51.5	51.9	52.6
	47°F	52.5	53.0	53.5	54.2
	49°F	54.1	54.5	55.0	55.7
	51°F	55.6	56.1	56.5	57.2
	53°F	57.2	57.6	58.1	58.8
	55°F	58.7	59.2	59.6	60.3

**TABLE 7: HEATING  
MIXED DISCHARGE TEMPERATURE**

CAPACITY	PRIMARY TEMP	PLENUM AIR TEMPERATURE			
		68°F	70°F	72°F	75°F
<b>A</b>	85°F	76.4	77.4	78.4	80.0
	87°F	77.4	78.4	79.4	80.9
	89°F	78.4	79.4	80.4	81.9
	91°F	79.4	80.4	81.4	82.9
	93°F	80.4	81.4	82.4	83.9
	95°F	81.4	82.4	83.4	84.9
<b>B</b>	85°F	76.9	77.8	78.8	80.2
	87°F	77.9	78.9	79.8	81.3
	89°F	78.9	79.9	80.9	82.3
	91°F	80.0	80.9	81.9	83.3
	93°F	81.0	82.0	82.9	84.4
	95°F	82.1	83.0	84.0	85.4
<b>C</b>	85°F	77.1	78.1	79.0	80.4
	87°F	78.2	79.1	80.1	81.5
	89°F	79.3	80.2	81.1	82.5
	91°F	80.4	81.3	82.2	83.6
	93°F	81.4	82.4	83.3	84.7
	95°F	82.5	83.4	84.4	85.8
<b>D</b>	85°F	77.4	78.3	79.2	80.6
	87°F	78.6	79.4	80.3	81.7
	89°F	79.7	80.6	81.4	82.8
	91°F	80.8	81.7	82.6	83.9
	93°F	81.9	82.8	83.7	85.0
	95°F	83.0	83.9	84.8	86.1
<b>E</b>	85°F	79.2	79.9	80.6	81.6
	87°F	80.5	81.2	81.9	82.9
	89°F	81.8	82.5	83.2	84.2
	91°F	83.1	83.8	84.5	85.5
	93°F	84.4	85.1	85.8	86.8
	95°F	85.8	86.4	87.1	88.2
<b>F</b>	85°F	81.1	81.5	82.0	82.7
	87°F	82.6	83.1	83.5	84.2
	89°F	84.2	84.6	85.1	85.8
	91°F	85.7	86.2	86.6	87.3
	93°F	87.2	87.7	88.2	88.8
	95°F	88.8	89.2	89.7	90.4

**Notes:**

1. Mixed discharge temperatures shown (°F) is based on the primary (supply) air temperatures and induced plenum air temperatures shown.
2. The discharge temperature is that of diffuser discharge air (Total air) into the space based on diffuser induction capacities A, B, C, D, E, or F.

**TABLE 8: SUPPLY PERFORMANCE DATA (4 Way Pattern)**



CAPACITY																								
<b>A</b>	Primary CFM	25		40		55		68		83		98		113		125								
	Total CFM	50		80		110		135		165		195		225		250								
	$\Delta P_s$	.02		.06		.10		.16		.24		.33		.44		.54								
	NC	<20		<20		<20		<20		<20		<20		24		28								
	Throw, feet	1	1	2	1	1	4	1	2	6	1	3	7	2	4	9	3	5	10	4	6	12	4	7
<b>B</b>	Primary CFM	39		60		81		102		120		141		161		182								
	Total CFM	75		115		155		195		230		270		310		350								
	$\Delta P_s$	.02		.05		.09		.14		.20		.27		.36		.46								
	NC	<20		<20		<20		<20		<20		<20		26		33								
	Throw, feet	1	1	4	1	2	6	2	4	8	3	5	10	4	6	12	5	7	14	5	8	15	6	9
<b>C</b>	Primary CFM	43		67		91		116		142		167		191		215								
	Total CFM	80		125		170		215		265		310		355		400								
	$\Delta P_s$	.02		.04		.08		.13		.20		.27		.35		.45								
	NC	<20		<20		<20		<20		<20		<20		21		26								
	Throw, feet	1	1	4	1	3	7	2	4	9	3	6	11	5	7	14	5	8	15	6	9	16	7	10
<b>D</b>	Primary CFM	64		97		128		161		194		228		261		292								
	Total CFM	115		175		230		290		350		410		470		525								
	$\Delta P_s$	.02		.05		.08		.13		.19		.26		.35		.43								
	NC	<20		<20		<20		<20		<20		<20		21		23								
	Throw, feet	1	2	6	2	5	9	4	6	12	5	8	14	6	9	16	7	11	17	8	12	18	9	14
<b>E</b>	Primary CFM	92		138		188		237		283		332		378		428								
	Total CFM	140		210		285		360		430		505		575		650								
	$\Delta P_s$	.02		.04		.08		.13		.19		.26		.34		.43								
	NC	<20		<20		<20		20		25		29		32		35								
	Throw, feet	1	3	7	3	5	11	5	7	14	6	9	16	7	11	18	9	13	19	10	14	20	11	15
<b>F</b>	Primary CFM	115		177		235		300		358		415		477		538								
	Total CFM	150		230		305		390		465		540		620		700								
	$\Delta P_s$	.02		.05		.08		.13		.19		.25		.34		.43								
	NC	<20		<20		<20		25		30		34		37		40								
	Throw, feet	2	4	8	4	6	12	5	8	15	7	10	17	8	12	18	9	14	20	11	15	21	12	16

**Notes:**

**Test Standard**

- ANSI / ASHRAE standard 70

**Air Flow**

- PRIMARY CFM is quantity of air entering the diffuser inlet.
- TOTAL CFM is the quantity of air entering the space (diffuser discharge quantity).

**Sound Levels**

- NC is noise criteria curve that will not be exceeded at the operating point for the supply air volume shown. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands

**Throw**

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiply throw distance shown in tables x .70
- Terminal velocity is the air speed, in feet per minute, measured in the supply airstream.

**Pressure**

- $\Delta P_s$  represents Static Pressure, inches of water, measured in the supply duct.