

PERFORMANCE DATA

MFD-DP – Imperial Units

Configuration	Pressure in.w.g.	Size	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	
No Basket	Air Flow cfm	8R	37	42	47	51	56	60	64	68	
		10R	49	56	63	69	74	80	85	90	
	Sound NC	8R	-	-	-	-	-	-	-	-	-
		10R	-	-	-	-	-	15	16	18	
DB Basket Full Open	Air Flow cfm	8R	35	40	45	49	54	58	62	65	
		10R	47	54	61	66	72	77	82	86	
	Sound NC	8R	-	-	-	-	-	-	-	-	-
		10R	-	-	-	-	-	-	17	19	
DBV 100% open	Air Flow cfm	8R	32	37	41	45	48	52	56	59	
		10R	56	66	68	75	80	86	91	95	
	Sound NC	8R	-	-	-	-	-	-	-	-	-
		10R	-	-	-	-	-	-	16	18	
RBC Basket	Air Flow cfm	8R	40	46	52	57	61	66	71	75	
	Sound NC	8R	-	-	-	-	-	-	-	16	
MFB 8 in. Inlet (DUCTED)	Air Flow cfm	8R	38	44	49	53	58	62	66	70	
		10R	48	55	62	68	73	79	84	89	
	Sound NC	8R	-	-	-	-	-	-	-	-	16
		10R	-	-	-	-	-	-	-	-	16
MFB 8 in. Inlet (PLENUM)	Air Flow cfm	8R	35	40	45	49	54	58	62	65	
		10R	46	53	60	66	71	77	81	86	
	Sound NC	8R	-	-	-	-	-	-	-	-	17
		10R	-	-	-	-	-	15	17	18	
MFB 6 in. Inlet (DUCTED)	Air Flow cfm	8R	37	43	48	52	57	61	65	68	
		10R	48	56	63	69	74	80	85	90	
	Sound NC	8R	-	-	-	-	-	-	-	-	17
		10R	-	-	-	-	-	-	-	-	18
MFB 6 in. Inlet (PLENUM)	Air Flow cfm	8R	31	36	41	45	48	52	56	59	
		10R	41	47	53	58	62	67	71	75	
	Sound NC	8R	-	-	-	-	-	-	-	-	17
		10R	-	-	-	-	-	16	18	19	

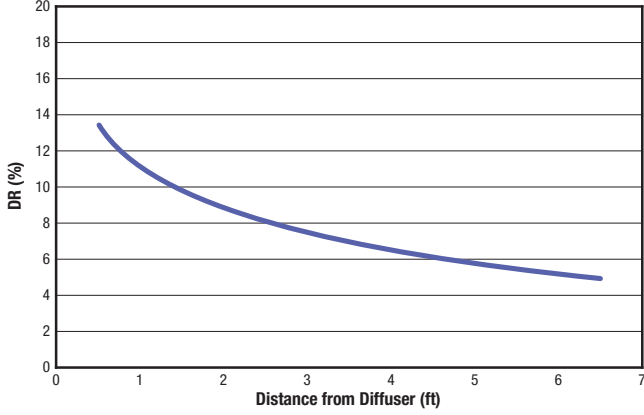
Performance Notes:

- Units are tested in accordance with ASHRAE Standard 70-2006 (RA 2011).
- Airflow is in cubic feet per minute, cfm.
- SP - Static pressure is in inches of water, in. w.g.
- NC levels are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser.
- Blanks (-) signifies individual diffusers have been lab tested and verified to achieve noise levels below NC-15 in accordance with ASHRAE-70.
- Ducted indicates the basket is direct ducted to a supply source.
- Plenum indicates the basket is sourced from a pressurized plenum.
- All MFB data tested with damper fully open where applicable.
- DB applies to B, DBS, and DBA baskets.

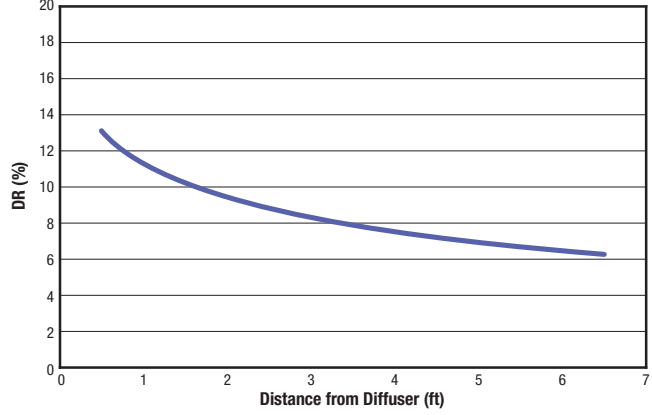
PERFORMANCE DATA

MFD-DP Comfort Curves

MFD-DP-8R at 0.05 in. w.g., 10°F ΔT



MFD-DP-10R at 0.05 in. w.g., 10°F ΔT



Performance Notes:

1. Units are tested in accordance with ASHRAE Standard 55-2004 for DR.
2. SP - Static pressure is in inches of water, in. w.g.
3. DR (%) is draft rate, an indication of the percentage of thermally dissatisfied people due to draft.
4. Stratification temperatures recorded at 4 in., 24 in., 42 in., and 66 in. above the floor.
5. Distances measured from the edge of the diffuser.
6. ΔT represents the temperature difference of the supply temperature to the average room temperature.
7. Measurements taken with standard basket.

PERFORMANCE DATA

MFD-TP – Imperial Units

Configuration	Pressure in.w.g.	Size	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	
No Basket	Air Flow cfm	8R	63	74	86	97	103	109	115	122	
		10R	110	127	143	156	168	181	191	202	
	Sound NC	8R	-	-	-	-	-	-	-	15	16
		10R	-	-	-	-	-	-	16	17	19
DB Basket Full Open	Air Flow cfm	8R	49	59	68	78	83	89	95	101	
		10R	89	102	115	125	136	146	154	162	
	Sound NC	8R	-	-	-	-	-	-	-	15	17
		10R	-	-	-	-	-	-	16	18	20
DBV 100% open	Air Flow cfm	8R	49	57	66	74	78	81	85	91	
		10R	100	114	128	138	149	159	170	179	
	Sound NC	8R	-	-	-	-	-	-	-	16	17
		10R	-	-	-	-	-	-	15	17	19
RBC Basket	Air Flow cfm	8R	52	60	69	78	84	90	96	101	
	Sound NC	8R	-	-	-	-	-	-	-	15	17
MFB 8 in. Inlet (DUCTED)	Air Flow cfm	8R	63	74	86	97	107	117	127	130	
		10R	107	123	138	151	164	176	185	195	
	Sound NC	8R	-	-	-	-	-	-	-	16	18
		10R	-	-	-	-	-	-	-	-	16
MFB 8 in. Inlet (PLENUM)	Air Flow cfm	8R	51	62	74	85	95	104	114	115	
		10R	83	96	108	118	127	137	145	152	
	Sound NC	8R	-	-	-	-	-	-	-	15	17
		10R	-	-	-	-	-	-	16	18	19
MFB 6 in. Inlet (DUCTED)	Air Flow cfm	8R	66	74	81	89	99	109	118	123	
		10R	96	110	124	135	146	157	167	177	
	Sound NC	8R	-	-	-	15	16	18	19	20	
		10R	-	-	-	-	-	-	-	-	18
MFB 6 in. Inlet (PLENUM)	Air Flow cfm	8R	45	53	62	70	77	84	91	93	
		10R	60	69	77	84	91	98	104	109	
	Sound NC	8R	-	-	-	-	-	-	-	16	18
		10R	-	-	-	-	-	-	-	-	16

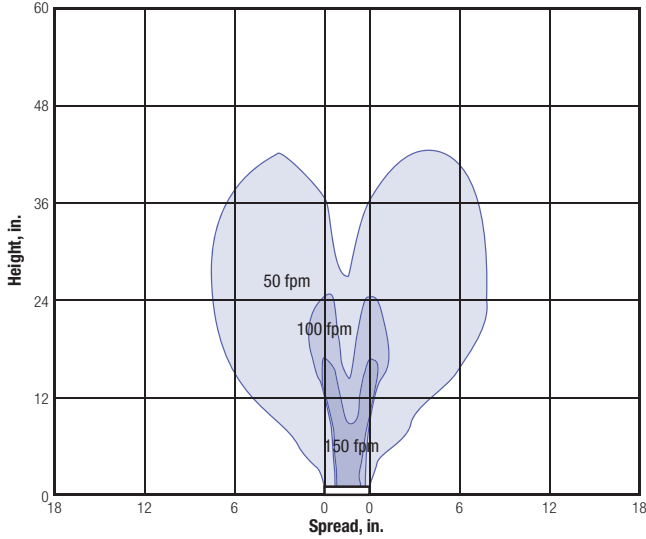
Performance Notes:

- Units are tested in accordance with ASHRAE Standard 70-2006 (RA 2011).
- Airflow is in cubic feet per minute, cfm.
- SP - Static pressure is in inches of water, in. w.g.
- NC levels are based on a room absorption of 10 dB, re10⁻¹² watts and one diffuser.
- Blanks (-) signifies individual diffusers have been lab tested and verified to achieve noise levels below NC-15 in accordance with ASHRAE-70.
- Ducted indicates the basket is direct ducted to a supply source.
- Plenum indicates the basket is sourced from a pressurized plenum.
- All MFB data tested with damper fully open where applicable.
- DB applies to B, DBS, and DBA baskets.

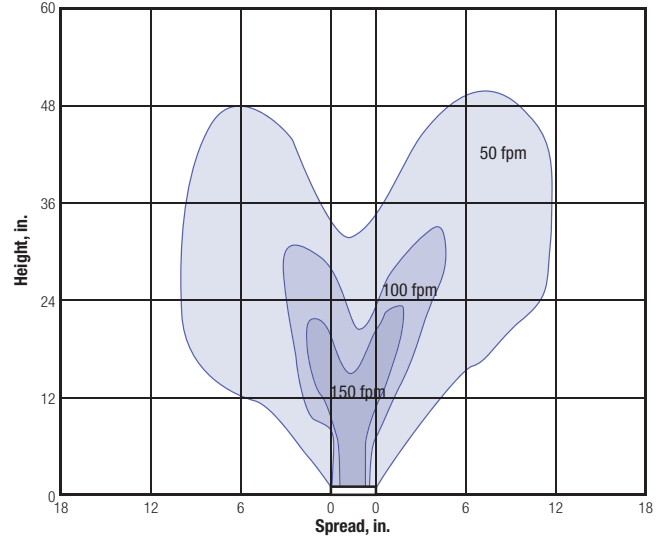
PERFORMANCE DATA

MFD-TP Air Patterns

MFD-TP-8R at 70 cfm, 10°F ΔT



MFD-TP-8R at 110 cfm, 10°F ΔT

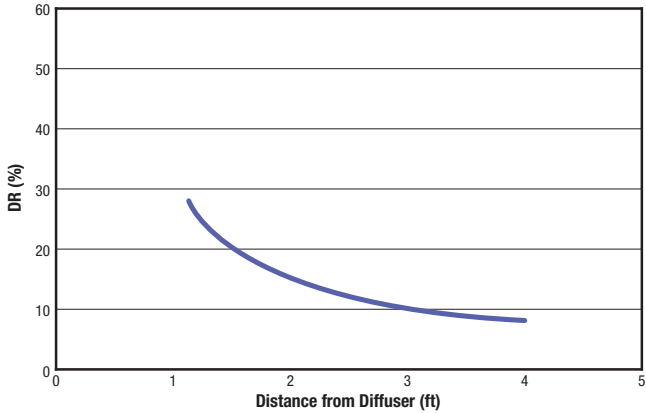


Performance Notes:

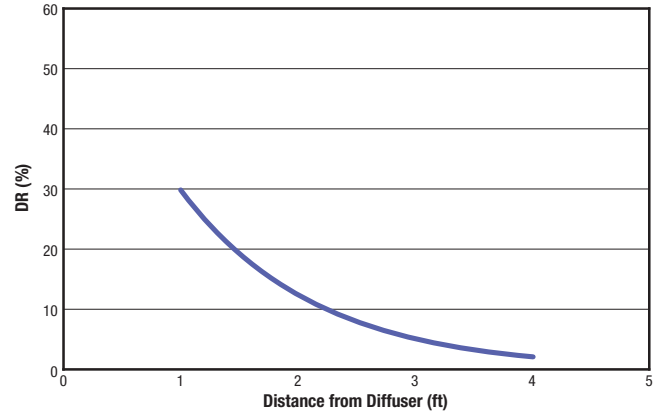
- Units are tested in accordance with ASHRAE Standard 62.1-2010. For applying a ventilation effectiveness (E) of 1.2 with floor-level supply the terminal velocity of 50 fpm must be below 4.5 ft.
- SP - Static pressure is in inches of water, in. w.g.
- Spread indicates horizontal width of the isovel, distances are measured from the edge of the diffuser.
- Height indicates vertical throw above the floor of the isovel.
- ΔT represents the temperature difference of the supply temperature to the average room temperature.
- Measurements taken with standard basket.

MFD-TP Comfort Curves

MFD-TP-8R at 0.05 in. w.g., 10°F ΔT



MFD-TP-10R at 0.05 in. w.g., 10°F ΔT



Performance Notes:

- Units are tested in accordance with ASHRAE Standard 55-2004 for DR.
- SP - Static pressure is in inches of water, in. w.g.
- DR (%) is draft rate, an indication of the percentage of thermally dissatisfied people due to draft.
- Stratification temperatures recorded at 4 in., 24 in., 42 in., and 66 in. above the floor.
- Distances measured from the edge of the diffuser.
- ΔT represents the temperature difference of the supply temperature to the average room temperature.
- Measurements taken with standard basket.