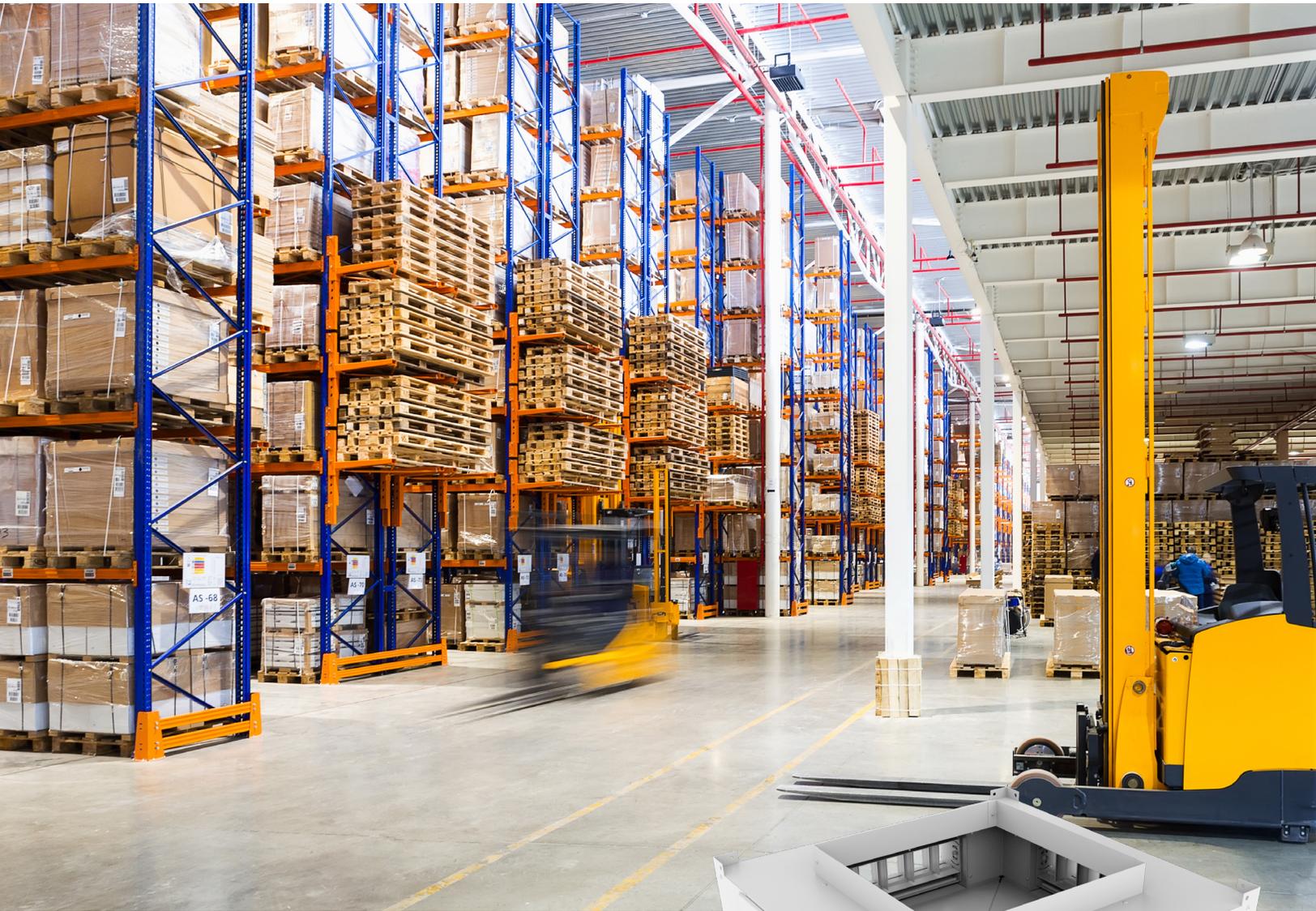


DBH

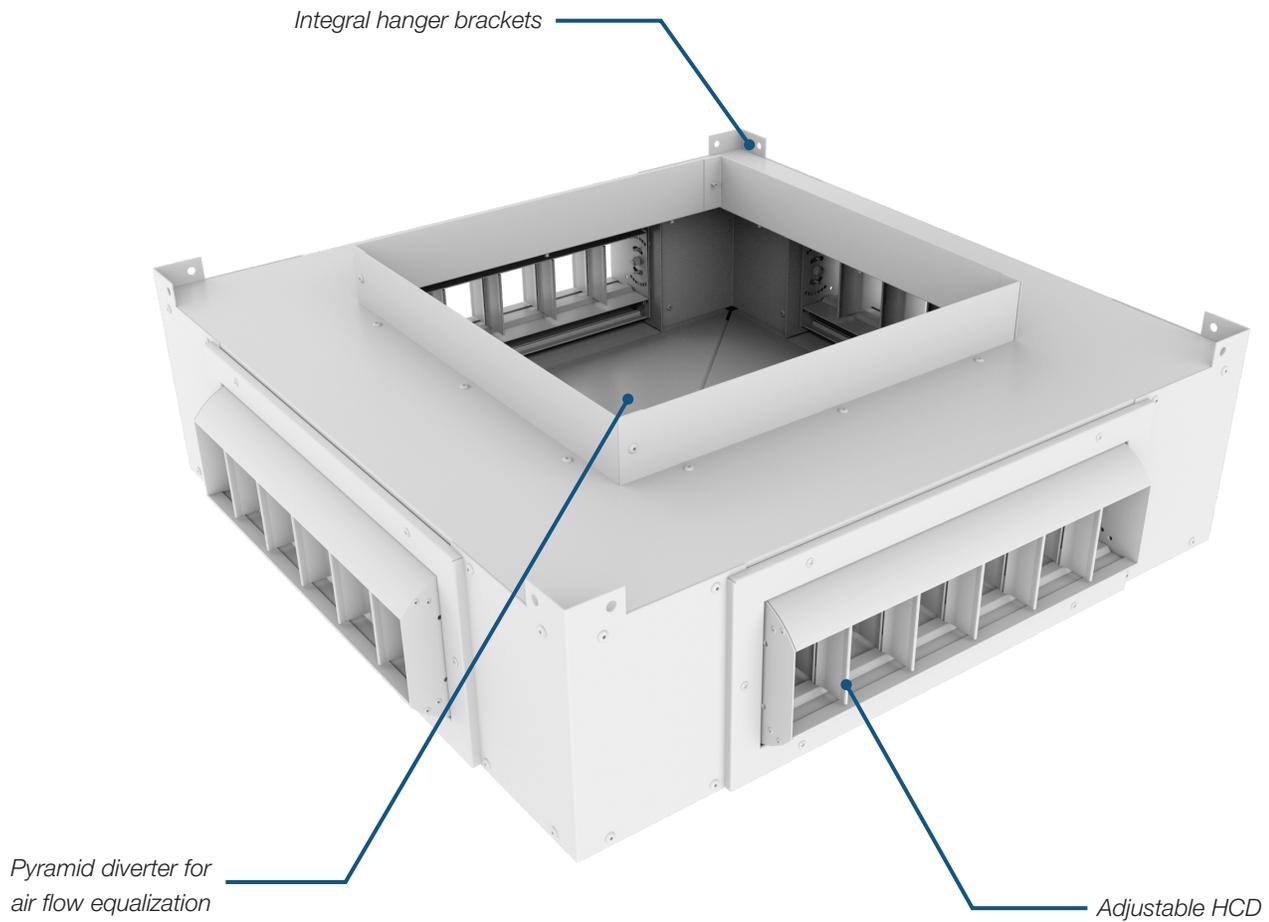
DROP BOX PLENUMS WITH HIGH-CAPACITY DRUM LOUVERS



DBH

Drop Box Plenums with High-Capacity Drum Louvers

Ideal for industrial applications, the Drop Box Plenum is a complete package from the factory including High-Capacity Drum Louvers (DBH). This single point air distribution system has adjustable 4-way or 6-way pattern allowing for directional control ideal for spot cooling and heating.

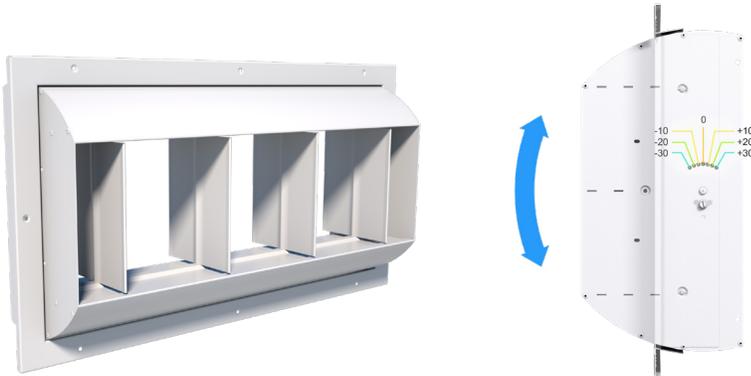


PYRAMID DIVERTER

- + The Drop Box Plenums feature an acoustically perforated flow pyramid to minimize sound generated from air hitting the bottom of the plenum.
- + The shape of the pyramid diverter allows for air flow equalization across all grilles.

ADJUSTABLE AIRFLOW PATTERN

- + Adjustable blades allow side-to-side directional control.
- + Drum rotation of 60° allow for vertical adjustment and positive detent mechanism locks the drum at the desired angle.



Single Blade HCD

60° Incremented drum angle adjustment

TYPICAL APPLICATIONS

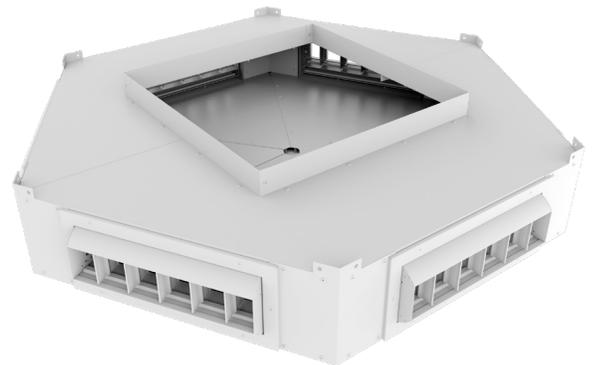
The DBH provides a single point air distribution system with long adjustable throws. The durable design makes the DBH ideal for use in industrial settings, warehouses, factories or any large, enclosed space.

CONSTRUCTION

- + Grille type
 - HCD
- + Material
 - Steel
- + Nominal Capacity
 - 7.5T
 - 10T
 - 15T
 - 20T
 - 25T
 - 30T
 - 35T
- + Option
 - Flanged inlet (FLNG)

CHOICE OF OUTLET PATTERN

- + 4-way and 6-way pattern
- + The different outlet pattern and tonnage allows for customization of each unit to accommodate specific requirements



PERFORMANCE DATA

DBH with HCD 4-Way

	Airflow (cfm)	1200	1500	1800	2100	2400	2700	3000	3300	3600
7.5T	Total Pressure (in. w.g.)	0.070	0.120	0.171	0.225	0.281	0.338	0.397	0.458	0.521
	Static Pressure (in. w.g.)	0.055	0.097	0.138	0.180	0.222	0.264	0.305	0.347	0.389
	Sound (NC)	18	26	32	37	42	46	50	53	56
	Throw (ft)	26-33-47	30-37-53	33-41-58	36-44-62	38-47-67	41-50-71	43-53-74	45-55-78	47-58-81
15T	Airflow (cfm)	2400	3000	3600	4200	4800	5400	6000	6600	7200
	Total Pressure (in. w.g.)	0.051	0.097	0.144	0.194	0.245	0.299	0.355	0.413	0.473
	Static Pressure (in. w.g.)	0.035	0.071	0.107	0.143	0.179	0.215	0.251	0.287	0.323
	Sound (NC)	18	25	31	36	40	44	48	52	55
20T	Airflow (cfm)	3200	4000	4800	5600	6400	7200	8000	8800	9600
	Total Pressure (in. w.g.)	0.040	0.080	0.123	0.167	0.213	0.260	0.309	0.359	0.412
	Static Pressure (in. w.g.)	0.027	0.060	0.094	0.128	0.161	0.195	0.229	0.263	0.296
	Sound (NC)	20	27	32	37	41	45	49	52	56
30T	Airflow (cfm)	5400	6500	7600	8700	9800	10900	12000	13100	14200
	Total Pressure (in. w.g.)	0.048	0.082	0.118	0.154	0.192	0.231	0.271	0.311	0.354
	Static Pressure (in. w.g.)	0.035	0.063	0.091	0.119	0.147	0.176	0.204	0.232	0.260
	Sound (NC)	24	30	35	39	43	46	49	52	55
30T	Throw (ft)	40-61-100	49-73-109	57-84-118	65-90-127	73-95-134	82-100-142	86-105-149	90-110-155	93-114-162

DBH with HCD 6-Way

	Airflow (cfm)	1600	2000	2400	2800	3200	3600	4000	4400	4800
10T	Total Pressure (in. w.g.)	0.073	0.110	0.155	0.207	0.265	0.330	0.402	0.480	0.565
	Static Pressure (in. w.g.)	0.065	0.099	0.138	0.184	0.236	0.293	0.356	0.424	0.498
	Sound (NC)	20	28	34	40	44	49	52	56	59
	Throw (ft)	23-31-44	28-35-50	31-38-54	34-41-59	36-44-63	38-47-67	40-50-70	42-52-74	44-54-77
20T	Airflow (cfm)	4000	4800	5600	6400	7200	8000	8800	9600	10200
	Total Pressure (in. w.g.)	0.095	0.117	0.160	0.204	0.250	0.297	0.347	0.397	0.436
	Static Pressure (in. w.g.)	0.075	0.088	0.120	0.153	0.185	0.217	0.250	0.282	0.306
	Sound (NC)	25	31	36	40	44	47	51	54	56
20T	Throw (ft)	34-50-70	41-54-77	48-59-83	51-63-89	54-67-94	57-70-99	60-74-104	63-77-109	65-79-112

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air Flow is in cfm
3. All pressures are in in. w.g.
4. The NC values are based on a room absorption of 10dB re 10⁻¹² watts and one diffuser.
5. Blanks (-) indicate an NC level below 15.
6. Throw data is based on supply air and room air being at isothermal conditions.
7. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
8. The performance table above is based on units with 0° blade deflection. Correction factors for other blade configurations are listed in the following table.
9. 0° -30° The listed deflection settings refer to horizontal deflection.

Correction Factors

	4Way & 6Way 0° Blade Deflection	4Way 30° Blade Deflection	6Way 30° Blade Deflection
NC	-	+ 4	+ 3
Throw	-	x 0.73	x 0.73
Total Pressure	-	x 1.46	x 1.29



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