



RHEIA PERFORMANCE DATA

DUAL DUCT FLOOR BOOT
WITH METAL FLOOR DIFFUSER

Performance based on boot and diffuser assemblies together.
Components include:

- 1. Dual Duct Floor Boot 4x10 Assembly - Rheia Part Number 10-01-310
- 2. Metal Floor Diffuser 4x10 - Rheia Part Number 00-04-300
- 3. (2) Elbow Extension – Rheia Part Number 10-01-020
- 4. (2) 3” Ferrule – Rheia Part Number 10-01-010

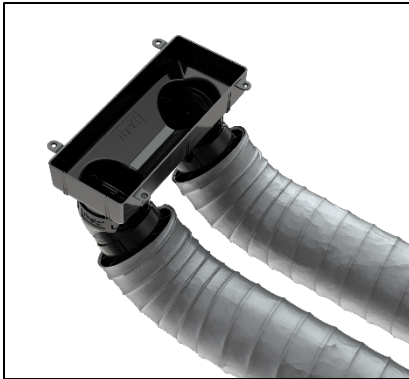


Table 1:
Dual Duct Floor Boot with Metal Floor Diffuser Performance Data

Neck Size 3" Dia. (each) Diffuser Size 4"x10"	Neck Velocity (fpm)	407	611	815	1018
	Pressure Drop (IWC)	0.009	0.021	0.037	0.057
	Airflow per Duct (CFM)	20	30	40	50
	Vertical Throw (Feet)	1	4	6	7
	Horizontal Spread (Feet)	2	4	6	6

Performance Data Notes:

- 1. Throw and spread data is given in feet to terminal velocity of 50 fpm.
- 2. Spread is the maximum width of the total air stream at the point of terminal velocity.
- 3. Pressure drops given for the boot and diffuser assembly only without a damper installed. For additional pressure drops with the damper installed see Table 2.

Table 2:
Damper Position Pressure Drop

Damper Blade Pressure Drop (IWC)	Damper Position					
	Airflow (CFM)	1 (Wide Open)	2	3	4	5 (Fully Closed)
	20	0.006	0.028	0.078	0.232	0.443
	30	0.013	0.061	0.168	0.501	0.957
	40	0.023	0.106	0.290	0.865	1.653
	50	0.035	0.162	0.444	1.322	2.525