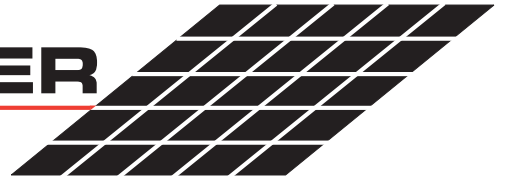


# **VAV LINEAR DIFFUSER**

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## **WITH ACTUATOR**



The Camino linear floor diffusers with actuators are designed for use in raised access floor air distribution systems. High quality, heavy duty, extruded aluminum linear grilles are featured providing an architectural appealing face design that compliments contemporary decor. Heavy gauge steel plenums incorporate a large dust/dirt collection area that catches anything that might fall through the diffuser face.

The linear floor diffuser provides variable air volume heating or cooling control for ducted or non-ducted applications. A 90 degree rotation low leakage damper and integral modulating actuator provide precise airflow control

**C A M I N O   M O D U L A R   S Y S T E M S   I N C .**

**89 CARLINGVIEW DRIVE, TORONTO, ON M9W 5E4   TEL (416) 675-2400 FAX (416) 675-2424**

**CONTROL FEATURES:**

- 150 CFM.
- Meets all the requirements of NFPA 90A.
- Complete assembly including actuator is UL tested and classified in accordance with UL standard 2043.
- Simple installation, units fits into place from the top (room side) of the floor panel.
- 12" (305) overall height allows installation in 12" (305) raised access floors.
- Five available heavy duty core styles to chose from.
- All heavy duty cores are removable and supplied with core clips as standard.
- Two available frame options (frame F or H)
- Standard fastening is type B friction spring clips.
- Compact 24 VAC direct drive proportional actuator c/w cover.
- Minimum and maximum airflow limits are achieved by limiting the range of the control signal.
- Actuator features two RJ12 ports for simple interconnection using modular plenum rated cables. Multiple units can be daisy-chained together.
- Optional thermostat, thermostat cable and power supply modules are available.
- Optional Type DV directional vanes provide and adjustable discharge pattern to enhance coverage of perimeter windows and reduce throw.
- Optional black painted finish on interior plenum surfaces
- Standard finish is appliance white.

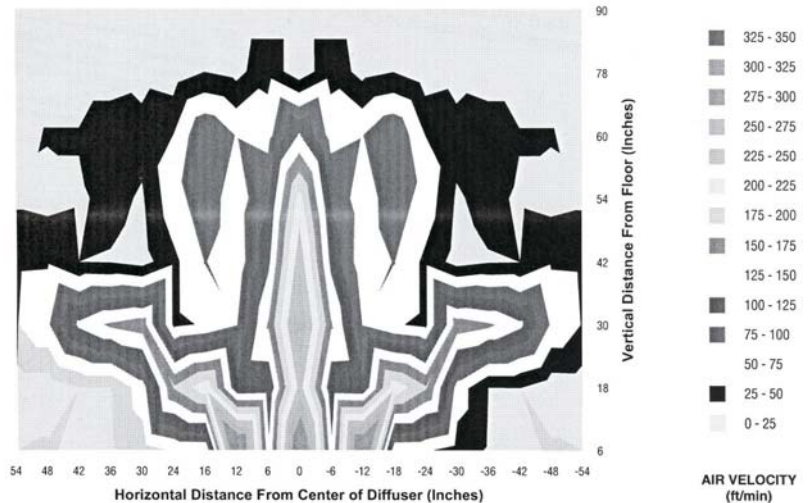
**PERFORMANCE DATA**

Airflow, cfm	50	75	100	125	150
<b>NC</b>	-	-	-	-	18
<b>22 Degree Blade Deflection</b>					
Plenum Pressure, in w.g.	0.0045	0.010	0.017	0.024	0.033
Vertical Projection, ft. @ 150, 100, 50 fpm	0-1-2	0.5-2-3	1.5-4.5-5	4-5.5-6.5	6-6.5-8
Horizontal Spread, ft. @ 150, 100, 50 fpm	0-1-1.5	0.5-1.5-2.5	1.5-2.5-5	3-4-7.5	4-5-10
<b>45 Degree Blade Deflection</b>					
Plenum Pressure, in w.g.	0.0045	0.010	0.017	0.025	0.035
Vertical Projection, ft. @ 150, 100, 50 fpm	0-1-2	1-2-3	1-3.5-4.5	3-5-5.5	5-6-6.5
Horizontal Spread, ft. @ 150, 100, 50 fpm	0-1-1.5	0.5-1-4	2.5-4-5	5-6-7	6-7.5-9
<b>60 Degree Blade Deflection</b>					
Plenum Pressure, in w.g.	0.005	0.011	0.018	0.056	0.080
Vertical Projection, ft. @ 150, 100, 50 fpm	0-1-1.5	1.5-2.5-3.5	3-4-5	4-5-5.5	5-5.5-6
Horizontal Spread, ft. @ 150, 100, 50 fpm	0-1-2	0.5-1-4.5	2.5-4-5	4.5-6-8	6.5-8.5-11

**Performance Notes:**

1. Projection and Spread data were determined in a room with an 11' ceiling height and 10°F ΔT, between supply air and averaged occupied room temperature.
2. Vertical projection is the maximum height above the floor where terminal velocities of 150, 100 and 50 fpm were observed. Horizontal Spread is the total width of the isovel where terminal velocities of 150, 100 and 50 fpm were observed.
3. Noise Criteria based on 10 dB room absorption, re 10<sup>-12</sup> watts. Dash (-) in space denotes an NC value of less than 15.
4. Tests conducted on units complete with directional vanes adjusted to the deflection settings of 22, 45 or 60 degrees. Damper fully open.
5. Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70 - 1991.

**PERFORMANCE TEST – MODEL NLD @ 150 CFM**



Note: The graph above shows actual air velocities and the associated isovels. This data was obtained in a full scale mock-up test performed on a standard Model NLD @ 10°F ΔT and a 45° blade deflection.

**CAMINO MODULAR SYSTEMS INC.**

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SHEET TITLE

**Linear Diffuser with Actuator, Model # NLD**

PROJECT: