

# VAV LINEAR FLOOR DIFFUSERS WITH ACTUATOR UNDERFLOOR AIR DISTRIBUTION SYSTEMS VAV • COOLING ONLY • NON-DUCTED MODEL: NLYD-VC

## **DESCRIPTION:**

The Nailor NLYD Linear Floor Diffusers are designed for use in raised access floor air distribution systems. High quality, heavy duty, extruded aluminum linear grilles are featured providing an architecturally appealing face design that compliments contemporary decor. Heavy gage steel plenums incorporate a large dust/dirt collection area that catches anything that might fall through the diffuser face.

Model NLYD-VC provides variable air volume cooling only control for non-ducted (pressurized floor plenum) applications. A 90° rotation (CCW to open) low leakage damper and integral modulating actuator provide precise airflow control.

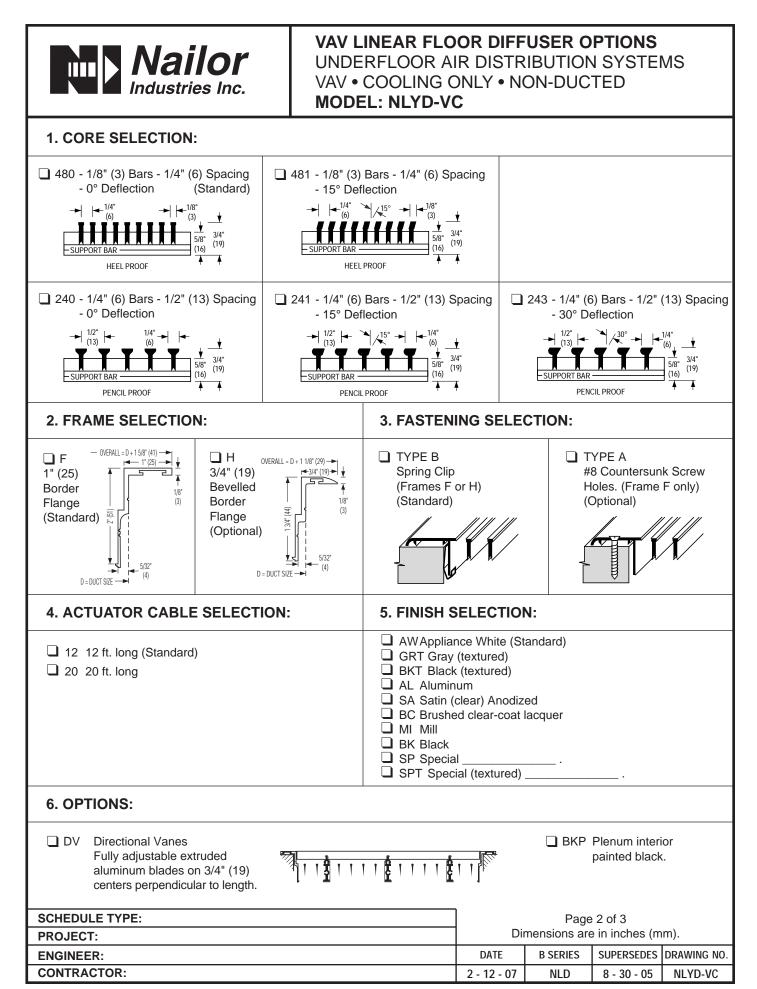
### **FEATURES**:

- Meets all the requirements of NFPA 90A.
- Complete assembly including actuator is UL tested and classified in accordance with UL standard 2043.
- Simple installation, unit fits into place from the top (room side) of the floor panel.
- 9" (229) overall height allows installation in 9" (229) raised access floors.
- Five available heavy duty core styles to choose from (see following page).
- 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 (see following pages).
- Optional Type DV directional vanes provide an adjustable discharge pattern to enhance coverage of perimeter windows and reduce throw.
- Optional BKP black painted finish on interior plenum surfaces.
- Standard finish is AW Appliance White.
- All sheet metal constructions 18 gauge.

ASSIFIC NAILOR INDUSTRIES INC. FLOOR DIFFUSER AS TO HEAT RELEASE RATE AND SMOKE OPTICAL DENSITY ONLY" R21545 25KU 2' (51) 3/8" (10) 8 7/8" (225) 0 (178) 8" (203) FLOOR OPENING = 10 3/4" x 10 3/4" (273 x 273) W OR H = 12 1/8" (308) FOR FRAME F OR 11 5/8" (295) FOR FRAME H

SCHEDULE TYPE:	Page 1 of 3			
PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	DATE	<b>B SERIES</b>	SUPERSEDES	DRAWING NO.
CONTRACTOR:	2 - 12 - 07	NLD	8 - 30 - 05	NLYD-VC

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## VAV LINEAR FLOOR DIFFUSER CONTROL DIAGRAM UNDERFLOOR AIR DISTRIBUTION SYSTEMS VAV • COOLING ONLY • NON-DUCTED MODEL: NLYD-VC

#### **DESCRIPTION:**

The Nailor NLYD floor diffuser is designed to provide VAV control in cooling only applications. Advanced micro-computer electronics and P+I control algorithms provide precise temperature control.

### **CONTROL FEATURES:**

- Fast connection/wiring between units with RJ12 (phone jack) connections. Allows units to be quickly installed or relocated.
- Compact direct-drive 24 VAC actuator utilizes a 2 – 10 VDC control signal for precise airflow control.
- Standard 12 ft. modular plenum rated cables, for interconnection between diffusers, allows diffusers to be spaced on 10 ft. intervals (20 ft. cables optional).
- Power supply modules allow connection of up to 12 units on each line voltage connection (6 diffusers on each side) (8 units total or 4 on each side)
- 20 FT. LONG ALLOWS FOR 18 FT. SPACING BETWEEN DIFFUSERS).

DIFFUSER WITH ACTUATOR

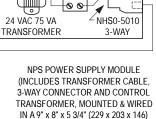
NHSO-5013-12 MODULAR PLENUM CABLE 12 FT. LONG.

(ALLOWS FOR 10 FT. SPACING BETWEEN DIFFUSERS).

(OPTIONAL NHSO-5013-20 MODULAR PLENUM RATED CABLE

TO NEXT

DIFFUSER



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OO GND

NHS0-5011

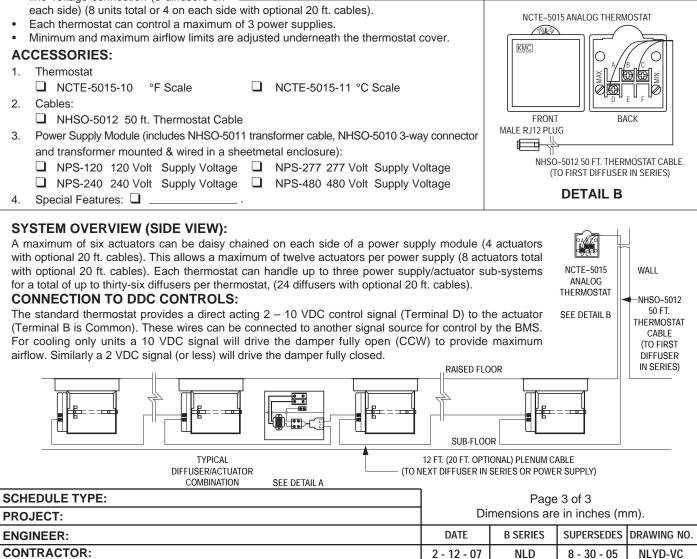
TO NEXT

DIFFUSER

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