

ENGINEERING SPECIFICATION & CONFIGURATION

SVE UNIT

Furnish and install Krueger model SVE, factory-assembled, externally powered, slip-in variable air volume retrofit control terminal of the sizes shown in the plans.

Unit shall be complete with a damper assembly, flow sensor, externally mounted volume controller, and all required features.

Control box shall be clearly marked with an identification label that lists such information as nominal CFM, maximum and minimum factory-set airflow limits and control enclosure hand.

The control air damper assembly shall be constructed of heavy gage galvanized steel. Damper blade shall incorporate a flexible gasket for tight airflow shutoff and operate over a full 90-degrees. The retrofit terminal shall be designed to slide into the side of existing ductwork, with a maximum 10 1/2" length of duct opening required. Terminal orifice plate shall be undersized 1/4-inch for ease of installation. Gasket shall be field installed to assure tight seal. No additional components will be required inside the ductwork for mounting. A flange shall be provided for fastening the terminal to the ductwork with sheet metal.

The terminal shall be constructed of minimum 22 gage galvanized steel. The damper shall be opposed blade type, with airfoil shaped blades constructed of heavy gage steel. The damper shall have extruded vinyl blade edge seals and flexible metal compressible jamb seals. Leakage of the damper shall not exceed 2% of rated flow at 6" WG Ps.

Units shall have pressure-independent pneumatic, electronic, or communicating controls, as specified, capable of maintaining required airflow setpoints +/-5% of the unit's capacity at any inlet pressure up to 6" WG. The controllers shall be capable of resetting between maximum and minimum (>350 FPM inlet duct velocity) set points to satisfy the room thermostat demand.

The unit shall be equipped with an amplified flow probe located in the damper section inlet. Airflow for the pressure independent controller (direct digital controls may be supplied by others) shall be determined with a factory supplied 12 point total pressure, center averaging cross flow sensor, having a magnification resulting in no greater than 2625 FPM at 1" developed signal.

Unit supplied shall be rated in accordance with AHRI 880 certification program at the rated flow rates and pressures. The unit manufacturer shall furnish octave band sound power data for both casing radiated and discharge sound levels with the selected lining and above flow sensor, as tested per AHRI Industry Standard 880-11, at the required flow rates and inlet pressures.

1. SERIES: (XXX)

SVE - Slip-in Retrofit Terminal Unit

2. SENSOR TYPE: (X)

3 - K4 LineaCross (Four Quadrant)

3. UNIT CASING CONTROLS: (XX)

0L - Left-hand Side, 22 Gage

0R - Right-hand Side, 22 Gage

4. UNIT SIZE: (X)

(MINIMUM DUCT SIZE SHOWN)

B - 6"x6"	J - 18"x12"
C - 8"x6"	K - 20"x14"
D - 10"x8"	L - 30"x12"
E - 14"x8"	M - 22"x16"
F - 18"x6"	N - 24"x18"
G - 12"x10"	P - 30"x20"
H - 18"x10"	R - 40"x20"

5. DUCT SIZE: (X)x(X)*

(MINIMUM DUCT SIZE SHOWN)

B - 6"x6"	J - 18"x12"
C - 8"x6"	K - 20"x14"
D - 10"x8"	L - 30"x12"
E - 14"x8"	M - 22"x16"
F - 18"x6"	N - 24"x18"
G - 12"x10"	P - 30"x20"
H - 18"x10"	R - 40"x20"

6. CONTROL TYPE: (X)

D - Digital Controls **

A - Analog Controls

P - Pneumatic Controls

7. UNIT ACCESSORIES: (X) (X)

0 - None

D - Disconnect for Controls

G - 24-24 VAC Transformer

H - 120-24 VAC Transformer

J - 208-24 VAC Transformer

K - 240-24 VAC Transformer

L - 277-24 VAC Transformer

* For additional sizes, see page D2-14.

** Digital controls are supplied by others; mounted by Krueger.

SAMPLE CONFIGURATION: SVE - 3 - 0L - F - L - D - D - 0