

# 14SC/514SC SERIES

Diffuser | Louvered Face



DIFFUSERS | LOUVERED FACE

## ENGINEERING SPECIFICATION & CONFIGURATION

### 14SC, 514SC

The drop cone, square face diffuser shall be Krueger model 14SC (steel) or 514SC (aluminum). The 514SC shall be constructed of 100% aluminum. The 14SC and 514SC models shall be constructed of three precision die-stamped cones. The back cone shall have an integrally drawn neck for duct connections on 20"x20", 24"x24", and 24"x48" panel sized units. Fabricated collars are only acceptable on 12"x12" panel sized units. The two internal cones shall be fabricated as one detachable inner cone unit to allow for installation and cleaning. Diffusers shall be constructed of 24 gage steel (14SC) or 0.040" aluminum (514SC).

Optional round damper shall be constructed of heavy gage steel. Damper shall be operable from the face of the diffuser.

### PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

### FINISH

The paint finish shall be #WHT White and be an anodic acrylic paint, baked at 315° for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

#### 1. SERIES: (XXXXX)

14SC - 3-Cone, Steel Ceiling Diffuser  
514SC - 3-Cone, Aluminum Ceiling Diffuser\*

#### 2. PATTERN: (XXX)

1WY - 1-Way (3 Baffles)  
2WY - 2-Way (2 Baffles)  
3WY - 3-Way (1 Baffle)  
4WY - 4-Way (No Baffles)

#### 3. ROUND NECK: (XX)\*\*\*\*

4", 5", 6", 7", 8", 10", 12", 14", or 15"

#### 4. FRAME: (XXX)

LTF - Lay-in T-Bar  
L12 - 12"x12" Face, Lay-in T-Bar  
SFM - Surface Mount  
SNI - Snap-in

(Continued)

SPL - Spline  
RSC - Recessed Spline Clip  
RST - Recessed Spline 4T Clip  
NTG - Narrow Tee (9/16" with 5/16" Drop)

#### 5. PANEL: (XX)x(XX)

None - No Panel  
12x12 - 12"x12"  
20x20 - 20"x20"  
24x24 - 24"x24"  
48x24 - 48"x24"  
3Mx3M - Metric 300x300  
6Mx6M - Metric 600x600

#### 6. DAMPER: (XXX)

000 - None  
RRN - Radial Neck Mounted  
RRD - Radial Duct Mounted  
RON - Opposed Blade Neck Mounted  
ROD - Opposed Blade Duct Mounted  
RBN - Butterfly Neck Mounted  
COM - Combo (Damper with Equalizing Grid)

#### 7. INSULATION: (XX)

00 - None  
R6 - Molded R6 Insulation\*\*\*

#### 8. EARTHQUAKE TABS: (XX)

00 - None  
EQ - Earthquake Tabs

#### 9. EQUALIZING GRID: (XX)

00 - None  
EG - Equalizing Grid

#### 10. INSTALL FRAME: (XXX)

000 - None  
AFR - Rapid Mount Frame (Aluminum)  
SFR - Rapid Mount Frame (Steel)  
30F - 30"x30" Adapter Frame\*\*

#### 11. FINISH: (XXX)

WHT - White  
ALP - Aluminum Paint  
CMP - Alkyd Enamel Paint to Match  
CMX - Hard Coat Urethane to Match  
OWH - Off-White Paint  
BLK - Black Paint

See dimensional data for available panel, frame, and neck configurations.

\* 514SC only available in frames SFM, LTF, and NTG.  
514SC not available in panel size 3Mx3M.

\*\* Adapter frame provided for neck sizes 4" and 5".

\*\*\* R6 insulation only available with frame LTF or SFM.

R6 insulation only available with panel size 24"x24".

R6 insulation only available with neck sizes 6", 8", 10", 14", and 15".

\*\*\*\* 7" inlet available in panel size 12x12 only.

**SAMPLE CONFIGURATION:** 14SC - 4WY - 06 - LTF - 24x24 - 000 - 00 - 00 - EG - 000 - WHT