**MODEL LE-58**

**STANDARD SPECIFICATION**

**FRAME:** 2" DEEP CHANNEL, .063 THICK 6063-T5 ALUMINUM ALLOY

**BLADES:** .063" THICK 6063-T5 ALUMINUM ALLOY.

**SCREEN:** 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED INTERIOR.

**FINISH:** MILL.

**MAX. PANEL SIZE:** 96" x 96"

**MIN. PANEL SIZE:** 12" x 12"

**DIMENSIONS:** "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZED

* PANELS OVER 48" WIDE WILL BE 3-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

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**SECTION VIEW**

**ARCHITECTURAL**

**OPTIONAL**

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**AMCA CERTIFIED RATINGS**

AWV certifies that the model LE-58 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.

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**AWV**

American Warming and Ventilating

A MESTEK COMPANY

7301 INTERNATIONAL DRIVE  HOLLAND, OHIO

Phone (419) 865-5000  Fax (419) 865-1375

LE-58 STATIONARY LOUVER

DRN. BY  JVC  DWG. NO.  REV.

DATE  3/21/07  LE-58
Water Penetration: 0.01 oz (3.0 g) at 872 fpm (4.43 m/s) recommended free area velocity
Pressure Drop: 0.15 in wg (37.2 Pa) at 872 fpm (4.43 m/s) and 6775 scfm (3.2 scm/s)
Free Area: 7.77 sq ft (0.722 sq m) = 48.6% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP

FREE AREA IN SQUARE FEET (sq meters)

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VELOCITY THROUGH FREE AREA fpm (m/s)
standard air - .075 lbs per cu ft
Ratings do not include the effect of a wire bird screen
Test based on a 48" x 48" test size per AMCA Standard 511

AMCA CERTIFIED RATINGS

WATER PENETRATION

VELOCITY THROUGH FREE AREA fpm (m/s)
Both maximum recommended free area velocity and beginning of water penetration are 872 fpm at standard air - .075 lbs per cu ft.
The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiply wide and multiple high assemblies. Structural supports and mounting accessories are not supplied as a standard.

Example: Given: 15000 CFM design flow
Step #1:
min. free area = Design CFM
              Max. Recommended Velocity
= 15000
  17.2 sq ft
Step #2: From the free area table above the approximate louver size is 72" x 72" = (17.48 sq ft)

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 872 fpm (4.43 m/s).

To determine minimum free area required for louver:
Step #1: Divide the required CFM flow by the maximum recommended free area velocity.
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.
Step #3: Compare specified performance to the certified water penetration and pressure drop ratings.

Form No. AWVLE58 March 2007