AWL WALL LOUVERS
ALUMINIUM

AIR-THERM INC.

CONTACT
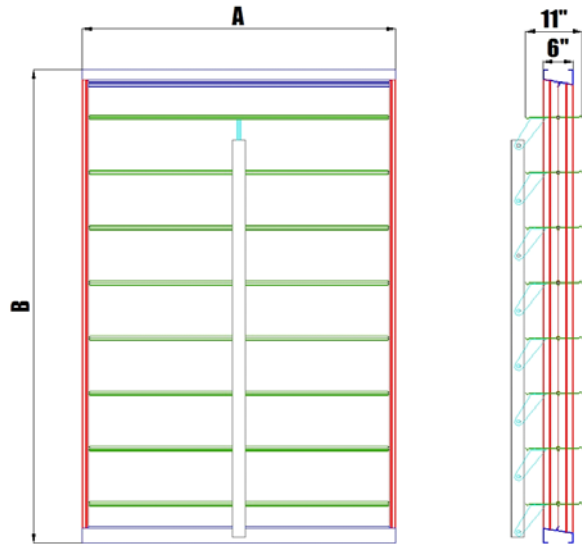
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GRAVITEC THERMODYNAMIC NATURAL VENTILATION SPECIFICATION

1. EXTRUDED ALUMINIUM 6" DEEP, 90° ADJUSTABLE BLADES

ITEM NO:		
TAG		
QUANTITY		
"A" WIDE OPENING [IN]		
"B" HIGH OPENING [IN]		
NO. OF PANELS (WIDE x HIGH)		
OPTIONS	SILL EXTENSION	
	SPECIAL SCREEN	
	INSECT SCREEN	
COMMENTS		
OPTIONAL ACTUATOR		
SPECIAL FINISH		

✦ **FRAME: 6" DEEP CHANEL, 0.125" THICKNESS**
  6063-T5 EXTRUDED ALUMINIUM ALLOY
✦ **BLADES: 0.125" THICKNESS**
  6063-T5 EXTRUDED ALUMINIUM ALLOY

✦ **FINISH: MILL**
✦ **SCREEN: (OPTIONAL) LOCATED ON EXTERIOR**
✦ **AXLES: ½" DIAMETER ALUMINIUM**
✦ **BEARINGS: DELRIN BUSHING**
✦ **DRIVING: 1) ACTUATOR (MECHANICAL) OR**
  2) LOCKING DEVICE (MANUAL).

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TECHNICAL SPECIFICATIONS:

- **MAXIMUM PANEL SIZE: 96" (HEIGHT) x 68**
- **DIMENSIONS "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZE. LOUVERS ARE MADE ¼" UNDERSIZE**
- **PERCENT FREE AREA: 90%**
- **FREE AREA VELOCITY AT BEGINNING POINT OF WATER PENETRATION-0.01 OZ H2O/sq ft: 1.069 FPM (5.43 m/s)**
- **AIR VOLUME FLOW RATE AT BEGINNING POINT OF WATER PENETRATION- 4 ft x 4 ft UNIT: 6.75 CFM (3.19 cum/s)**
- **PRESSURE DROP AT BEGINNING POINT OF WATER PENETRATION: 0.12 in H2O (0.040 kPa)**

NOTE:

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-multiple wide and multiple high assemblies. Structural supports and mounting accessories are not supplied by Air-Therm Inc.

LOUVER PERFORMANCE RATINGS

FREE AREA CHART 90° OPEN (Given in sq. feet and sq m)

HEIGHT (in. and mm)	WIDTH (in. and mm)				
	12 / 305	24 / 610	36 / 914	48 / 1219	60 / 1524
12 / 305	.18 / .02	.42 / .04	.67 / .06	.91 / .08	1.15 / .11
24 / 610	.56 / .05	1.32 / .12	2.09 / .19	2.85 / .26	3.62 / .34
36 / 914	.91 / .08	2.17 / .20	3.42 / .32	4.68 / .43	5.93 / .55
48 / 1219	1.40 / .13	3.31 / .31	5.23 / .49	7.15 / .66	9.06 / .84
60 / 1524	1.83 / .17	4.33 / .40	6.84 / .64	9.34 / .87	11.85 / 1.10
72 / 1829	2.19 / .20	5.20 / .48	8.20 / .76	11.21 / 1.04	14.21 / 1.32
84 / 2134	2.62 / .24	6.20 / .58	9.79 / .91	13.38 / 1.24	16.97 / 1.58
96 / 2438	3.09 / .29	7.32 / .68	11.56 / 1.07	15.79 / 1.47	20.02 / 1.86

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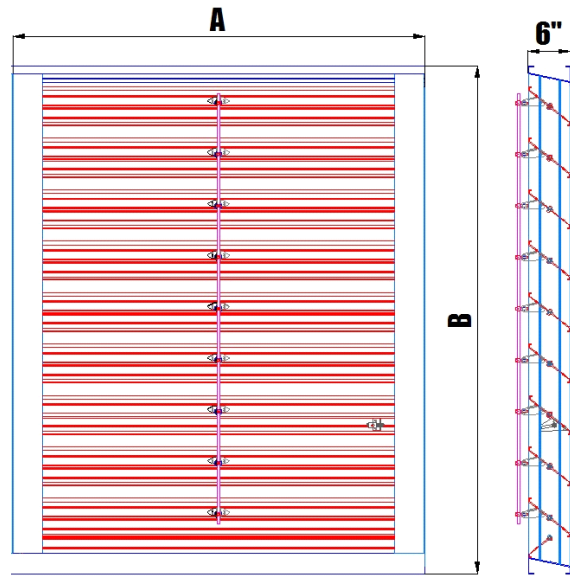# AIR-THERM INC.

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GRAVITEC THERMODYNAMIC NATURAL VENTILATION SPECIFICATION

2. EXTRUDED ALUMINIUM 6" DEEP, 40° ADJUSTABLE BLADES

➢ **FRAME: 6" DEEP CHANEL, 0.125" THICKNESS**
   6063-T5 EXTRUDED ALUMINIUM ALLOY

➢ **BLADES: 0.125" THICKNESS**
   6063-T5 EXTRUDED ALUMINIUM ALLOY

➢ **FINISH: MILL**
➢ **SCREEN: (OPTIONAL) LOCATED ON EXTERIOR**
➢ **AXLES: ½" DIAMETER ALUMINIUM**
➢ **BEARINGS: DELRIN BUSHING**
➢ **LINKAGE: PLATED STEEL HIGH BRACKETS, 5/16" DIA.**
   PLATED STEEL LINKAGE ROD
➢ **DRIVING: 1) ACTUATOR (MECHANICAL) OR**
   2) CHAIN (MANUAL)

➢ **MAXIMUM PANEL SIZE: 96" (HEIGHT) x 60" (WIDTH)**
➢ **MINIMUM PANEL SIZE: 12" x 12"**

➢ **DIMENSIONS "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZE. LOUVERS ARE MADE ¼" UNDERSIZE**

➢ **INDUSTRIAL QUALITY HARDWARE.**

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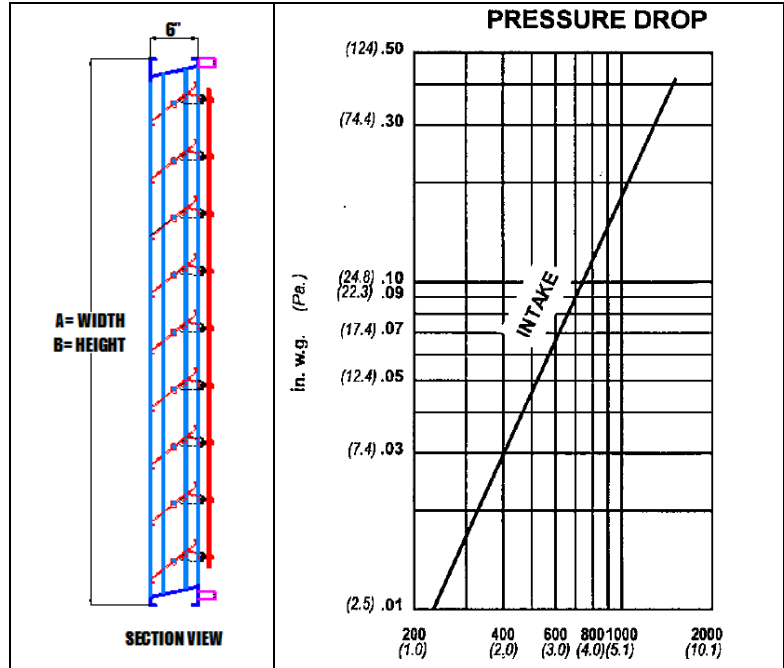
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GRAVITEC THERMODYNAMIC NATURAL VENTILATION SPECIFICATION

3. EXTRUDED ALUMINIUM 6" DEEP, 45° STATIONARY LOUVERS

- **FRAME: 6" DEEP CHANEL, 0.125" THICKNESS**
  6063-T5 EXTRUDED ALUMINIUM ALLOY

- **BLADES: 0.125" THICKNESS**
  6063-T5 EXTRUDED ALUMINIUM ALLOY
- **FINISH: MILL**
- **SCREEN: (OPTIONAL) LOCATED ON EXTERIOR**

- **MAXIMUM PANEL SIZE: 96" (HEIGHT) x 144" (WIDTH)**
- **MINIMUM PANEL SIZE: 12" x 12"**

- **DIMENSIONS "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZE. LOUVERS ARE MADE ¼" UNDERSIZE**
- **PANELS OVER 48" WIDE WILL HAVE A VERTICAL INTERIOR BLADE SUPPORT AT CENTER OF PANELS.**
- **PANELS OVER 96" WIDE WILL HAVE TWO VERICAL INTERIOR BLADE SUPPORTS**

- **INDUSTRIAL QUALITY HARDWARE.**