

# Intake Louvers

## Model LE47A - Adjustable



### Features/Specifications:

- Weather resistant
- Available in fixed or adjustable blades
- Bird screen standard
- Multiple options and colors available
- 1 year warranty
- Extruded aluminum 4" deep channel, .081" thick
- Extruded aluminum blades, .081" thick
- 1/2" removable expanded aluminum bird screen
- Optional extended sill
- Optional flange frame
- Optional insect screen
- Optional decorative and protective finishes
- Jackshifting available to use a single panel actuator on multi panel louvers

### Proper sizing for LE47A

1. Divide the required CFM by the maximum recommended free area velocity (740 FPM)
2. Select a louver from the free area chart that meets the minimum free area requirements.

Example: 6000 CFM air flow

Step 1.

$$\text{Min. Free Area} = \frac{\text{Design CFM}}{\text{Max Recommended Velocity}}$$

$$= \frac{6000}{740} = 7.299 \text{ Sq. Ft.}$$

$$822$$

Step 2.

From the free area table the approximate louver size is 36"W x 60"H (7.47 Sq. Ft.)

### LE47A Free Area in square feet

		WIDTH				
		12"	24"	36"	48"	60"
HEIGHT	12"	0.20	0.45	0.71	0.96	1.22
	24"	0.59	1.35	2.11	2.87	3.63
	36"	1.11	2.56	4.01	5.45	6.90
	48"	1.56	3.57	5.59	7.01	9.05
	60"	1.97	4.53	7.08	9.64	12.20
	72"	2.36	5.43	8.49	11.55	14.62
84"	2.74	6.30	9.86	13.41	16.97	
96"	3.31	7.61	11.91	16.20	20.50	

Free area is the actual open area of the louver, approximately 45% of face area.

### Louver Information:

EDP #	Catalog No.	Blades
94366	LE47A Adjustable Intake Louver, 12"W x 12"H	1
94361	LE47A Adjustable Intake Louver, 12"W x 18"H	2
94365	LE47A Adjustable Intake Louver, 12"W x 24"H	3
94367	LE47A Adjustable Intake Louver, 12"W x 30"H	4
94364	LE47A Adjustable Intake Louver, 12"W x 36"H	5
94368	LE47A Adjustable Intake Louver, 12"W x 42"H	6
94369	LE47A Adjustable Intake Louver, 12"W x 48"H	8
94370	LE47A Adjustable Intake Louver, 12"W x 54"H	9
94378	LE47A Adjustable Intake Louver, 12"W x 60"H	10
94379	LE47A Adjustable Intake Louver, 12"W x 66"H	11
94380	LE47A Adjustable Intake Louver, 12"W x 72"H	12
94381	LE47A Adjustable Intake Louver, 12"W x 78"H	13
94382	LE47A Adjustable Intake Louver, 12"W x 84"H	14
94383	LE47A Adjustable Intake Louver, 12"W x 90"H	16
94385	LE47A Adjustable Intake Louver, 12"W x 96"H	17
94413	LE47A Adjustable Intake Louver, 18"W x 12"H	1
94363	LE47A Adjustable Intake Louver, 18"W x 18"H	2
94388	LE47A Adjustable Intake Louver, 18"W x 24"H	3
94375	LE47A Adjustable Intake Louver, 18"W x 30"H	4
94353	LE47A Adjustable Intake Louver, 18"W x 36"H	5
94390	LE47A Adjustable Intake Louver, 18"W x 42"H	6
94399	LE47A Adjustable Intake Louver, 18"W x 48"H	8
94400	LE47A Adjustable Intake Louver, 18"W x 54"H	9
94403	LE47A Adjustable Intake Louver, 18"W x 60"H	10
94404	LE47A Adjustable Intake Louver, 18"W x 66"H	11
94405	LE47A Adjustable Intake Louver, 18"W x 72"H	12
94406	LE47A Adjustable Intake Louver, 18"W x 78"H	13
94411	LE47A Adjustable Intake Louver, 18"W x 84"H	14
94421	LE47A Adjustable Intake Louver, 18"W x 90"H	16
94422	LE47A Adjustable Intake Louver, 18"W x 96"H	17
94423	LE47A Adjustable Intake Louver, 24"W x 12"H	1
94356	LE47A Adjustable Intake Louver, 24"W x 18"H	2
94355	LE47A Adjustable Intake Louver, 24"W x 24"H	3
94354	LE47A Adjustable Intake Louver, 24"W x 30"H	4
94394	LE47A Adjustable Intake Louver, 24"W x 36"H	5
94424	LE47A Adjustable Intake Louver, 24"W x 42"H	6
94425	LE47A Adjustable Intake Louver, 24"W x 48"H	8
94426	LE47A Adjustable Intake Louver, 24"W x 54"H	9
94427	LE47A Adjustable Intake Louver, 24"W x 60"H	10
94428	LE47A Adjustable Intake Louver, 24"W x 66"H	11
94429	LE47A Adjustable Intake Louver, 24"W x 72"H	12
94430	LE47A Adjustable Intake Louver, 24"W x 78"H	13
94431	LE47A Adjustable Intake Louver, 24"W x 84"H	14
94432	LE47A Adjustable Intake Louver, 24"W x 90"H	16
94433	LE47A Adjustable Intake Louver, 24"W x 96"H	17
94434	LE47A Adjustable Intake Louver, 30"W x 12"H	1
94435	LE47A Adjustable Intake Louver, 30"W x 18"H	2



EDP #	Catalog No.	Blades
94351	LE47A Adjustable Intake Louver, 30"W x 24"H	3
94350	LE47A Adjustable Intake Louver, 30"W x 30"H	4
94401	LE47A Adjustable Intake Louver, 30"W x 36"H	5
94436	LE47A Adjustable Intake Louver, 30"W x 42"H	6
94437	LE47A Adjustable Intake Louver, 30"W x 48"H	8
94438	LE47A Adjustable Intake Louver, 30"W x 54"H	9
94439	LE47A Adjustable Intake Louver, 30"W x 60"H	10
94440	LE47A Adjustable Intake Louver, 30"W x 66"H	11
94441	LE47A Adjustable Intake Louver, 30"W x 72"H	12
94442	LE47A Adjustable Intake Louver, 30"W x 78"H	13
94443	LE47A Adjustable Intake Louver, 30"W x 84"H	14
94445	LE47A Adjustable Intake Louver, 30"W x 90"H	16
94446	LE47A Adjustable Intake Louver, 30"W x 96"H	17
94447	LE47A Adjustable Intake Louver, 36"W x 12"H	1
94347	LE47A Adjustable Intake Louver, 36"W x 18"H	2
94392	LE47A Adjustable Intake Louver, 36"W x 24"H	3
94346	LE47A Adjustable Intake Louver, 36"W x 30"H	4
94344	LE47A Adjustable Intake Louver, 36"W x 36"H	5
94448	LE47A Adjustable Intake Louver, 36"W x 42"H	6
94343	LE47A Adjustable Intake Louver, 36"W x 48"H	8
94449	LE47A Adjustable Intake Louver, 36"W x 54"H	9
94342	LE47A Adjustable Intake Louver, 36"W x 60"H	10
94450	LE47A Adjustable Intake Louver, 36"W x 66"H	11
94345	LE47A Adjustable Intake Louver, 36"W x 72"H	12
94451	LE47A Adjustable Intake Louver, 36"W x 78"H	13
94452	LE47A Adjustable Intake Louver, 36"W x 84"H	14
94453	LE47A Adjustable Intake Louver, 36"W x 90"H	16
94454	LE47A Adjustable Intake Louver, 36"W x 96"H	17
94455	LE47A Adjustable Intake Louver, 42"W x 12"H	1
94415	LE47A Adjustable Intake Louver, 42"W x 18"H	2
94456	LE47A Adjustable Intake Louver, 42"W x 24"H	3
94340	LE47A Adjustable Intake Louver, 42"W x 30"H	4
94457	LE47A Adjustable Intake Louver, 42"W x 36"H	5
94339	LE47A Adjustable Intake Louver, 42"W x 42"H	6
94458	LE47A Adjustable Intake Louver, 42"W x 48"H	8
94459	LE47A Adjustable Intake Louver, 42"W x 54"H	9
94460	LE47A Adjustable Intake Louver, 42"W x 60"H	10
94461	LE47A Adjustable Intake Louver, 42"W x 66"H	11
94462	LE47A Adjustable Intake Louver, 42"W x 72"H	12
94463	LE47A Adjustable Intake Louver, 42"W x 78"H	13
94464	LE47A Adjustable Intake Louver, 42"W x 84"H	14
94465	LE47A Adjustable Intake Louver, 42"W x 90"H	16
94466	LE47A Adjustable Intake Louver, 42"W x 96"H	17
94467	LE47A Adjustable Intake Louver, 48"W x 12"H	1
94468	LE47A Adjustable Intake Louver, 48"W x 18"H	2
94395	LE47A Adjustable Intake Louver, 48"W x 24"H	3
94402	LE47A Adjustable Intake Louver, 48"W x 30"H	4

EDP #	Catalog No.	Blades
94338	LE47A Adjustable Intake Louver, 48"W x 36"H	5
94469	LE47A Adjustable Intake Louver, 48"W x 42"H	6
94336	LE47A Adjustable Intake Louver, 48"W x 48"H	8
94470	LE47A Adjustable Intake Louver, 48"W x 54"H	9
94335	LE47A Adjustable Intake Louver, 48"W x 60"H	10
94474	LE47A Adjustable Intake Louver, 48"W x 66"H	11
94334	LE47A Adjustable Intake Louver, 48"W x 72"H	12
94478	LE47A Adjustable Intake Louver, 48"W x 78"H	13
94479	LE47A Adjustable Intake Louver, 48"W x 84"H	14
94480	LE47A Adjustable Intake Louver, 48"W x 90"H	16
94481	LE47A Adjustable Intake Louver, 48"W x 96"H	17
94482	LE47A Adjustable Intake Louver, 54"W x 12"H	1
94483	LE47A Adjustable Intake Louver, 54"W x 18"H	2
94484	LE47A Adjustable Intake Louver, 54"W x 24"H	3
94485	LE47A Adjustable Intake Louver, 54"W x 30"H	4
94486	LE47A Adjustable Intake Louver, 54"W x 36"H	5
94487	LE47A Adjustable Intake Louver, 54"W x 42"H	6
94488	LE47A Adjustable Intake Louver, 54"W x 48"H	8
94331	LE47A Adjustable Intake Louver, 54"W x 54"H	9
94489	LE47A Adjustable Intake Louver, 54"W x 60"H	10
94490	LE47A Adjustable Intake Louver, 54"W x 66"H	11
94491	LE47A Adjustable Intake Louver, 54"W x 72"H	12
94494	LE47A Adjustable Intake Louver, 54"W x 78"H	13
94495	LE47A Adjustable Intake Louver, 54"W x 84"H	14
94496	LE47A Adjustable Intake Louver, 54"W x 90"H	16
94497	LE47A Adjustable Intake Louver, 54"W x 96"H	17
94498	LE47A Adjustable Intake Louver, 60"W x 12"H	1
94499	LE47A Adjustable Intake Louver, 60"W x 18"H	2
94500	LE47A Adjustable Intake Louver, 60"W x 24"H	3
94501	LE47A Adjustable Intake Louver, 60"W x 30"H	4
94502	LE47A Adjustable Intake Louver, 60"W x 36"H	5
94329	LE47A Adjustable Intake Louver, 60"W x 42"H	6
94330	LE47A Adjustable Intake Louver, 60"W x 48"H	8
94503	LE47A Adjustable Intake Louver, 60"W x 54"H	9
94328	LE47A Adjustable Intake Louver, 60"W x 60"H	10
94504	LE47A Adjustable Intake Louver, 60"W x 66"H	11
94396	LE47A Adjustable Intake Louver, 60"W x 72"H	12
94505	LE47A Adjustable Intake Louver, 60"W x 78"H	13
94506	LE47A Adjustable Intake Louver, 60"W x 84"H	14
94507	LE47A Adjustable Intake Louver, 60"W x 90"H	16
94393	LE47A Adjustable Intake Louver, 60"W x 96"H	17

## Motorized or Chain Pull Actuators Louvers

For motorized or chain pull actuator louvers, order LE47A and motor or chain pull actuator

EDP #	Catalog No.	Actuator Model Number	Voltage	Description
81642	BCMA-405	BCMA-405	115V	115V Actuator
81640	BCMA-305	BCMA-305	24V	24V Actuator
81639	BCMA-419	BCMA-419	230V	230V Actuator
81637	MA6-405	MA6-405	115V	115V Hazardous Location Actuator with Explosion Proof Motor & Linkage (no mtg. brackets included)
81645	Chain Actuator	Chain Actuator	-	Plated Steel Spring, 5' Chain, Wall Claw
81636	Panel Crank	Panel Crank	-	Manual Hand Crank

## Motor Controls - Disconnect Switches & Thermostats

### Thermostats

EDP #	Catalog No.	Description
89576*	XRA-4	Thermostat (Wall Mt.) 60 to 100 degree range
24820	T-1	Temp. Switch (Wall Mt.) 45 to 85 degree range
90783	TS631	Temp. Switch (Attic Mt.) 70 to 140 degree range

### Humidistat

EDP #	Catalog No.
24880	H-1

\*Single phase for use up to 3/4 HP

### Manual Motor Starters - Two Speed Manual Motor Starter without Provision for Overload Protector

EDP #	Catalog No.	Max HP	Voltage/Phase/Hertz
85388	Switch	3/4	115 / 1 / 60

### Motor Conversion Kits

Exhaust Motor Kits - for motorized wall shutters add motor kit from list below; not approved for Hazardous Locations

EDP #	Catalog No.	Description
22982	MTR-556 SP	120/240V, for 10 in sq - 32 in sq exhaust shutters
22983	MTR-556 DP	120/240V, for 36 in sq - 48 in sq exhaust shutters
22984	MTR-885 DP	120/240V, for 56 in sq - 62 in sq exhaust shutters

### Supply Motor Kits

EDP #	Catalog No.	Description
22900	MK5047-B	120/240V, for 9" - 36" supply shutters
22905	MK5047-C	440V, for 9" - 36" supply shutters
22908	MK5047-E	550V, for 9" - 36" supply shutters
22910	MK-4782-F	120/240V, for 42" - 48" supply shutters
22915	MK-4782-C	440V, for 42" - 48" supply shutters
22918	MK-4782-E	550V, for 42" - 48" supply shutters

54" supply shutter requires one MK-4782 motor kit

60" supply shutter requires one MK5047 and one MK-4782 motor kits

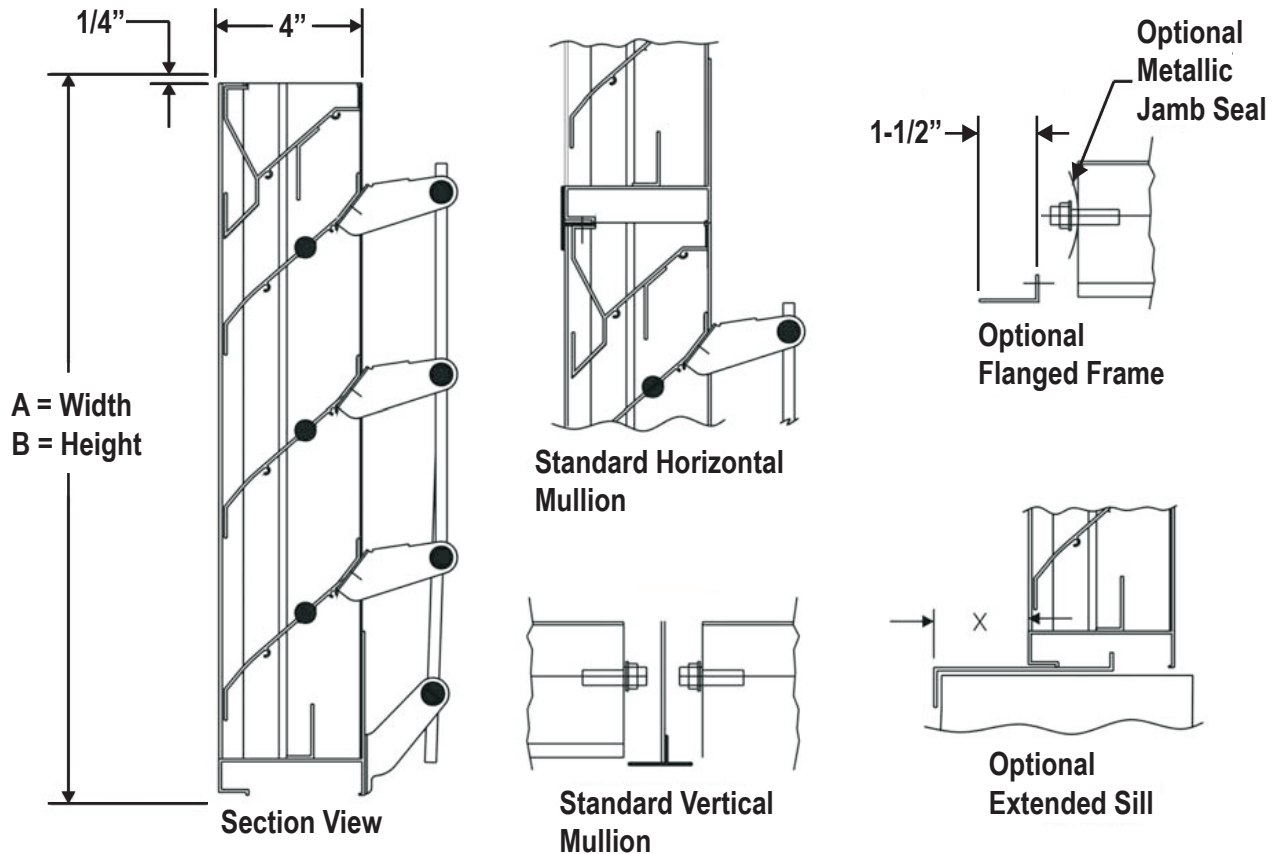
Specify voltage needed when ordering. All units are for single phase operation.

### Manual Chain Operators for EASR Exhaust Shutters

EDP #	Catalog No.	Description
80111	Manual Chain Operator	For EASR-MF 10" - 38" 1 panel shutter
80112	Manual Chain Operator	For EASR-MF 44" - 54" 2 panel shutter

NOTE: Shutter motor kits are "power open - spring close." The power opens the shutter and holds it open until the power is turned off, then a spring on the motor closes the shutter.

### Adjustable Intake Louver:



A (Width) and B (Height) are opening sizes, louvers are made 1/2" undersize

### Ordering:

EDP #	Qty.	Catalog No.	Finish	Screen	Comments

Project		Location	
Engineer		Contractor	

Submitted by		Date		Approved by		Date	
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