

For Special Custom Order Products - Once in production non-cancellable, non-returnable under any circumstance.

LE47 Model - Fixed



1 Year Warranty Features

- Extremely Versatile - For Architectural Designs
- Available in Fixed or Adjustable Blades
- Many Options and Colors Available
- Bird Screen Standard
- Extruded Aluminum
- Weather Resistant



Choosing the proper sized LE47

1. Divide the required CFM by the maximum recommended free area velocity (822 FPM).
2. Select a louver from the free area chart that meets the minimum free area requirements

Example: 6000 CFM air flow

Step #1

Min. Free Area = Design CFM

$$= \frac{\text{Max. Recommended Velocity}}{822} = \frac{6000}{822} = 7.299 \text{ Sq. Ft.}$$

Step #2

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

LE47 Free Area in Square Feet

| | | Width | | | | | | | |
|--------|-----|-------|------|-------|-------|-------|-------|-------|------|
| | | 12" | 24" | 36" | 48" | 60" | 72" | 84" | 96" |
| Height | 12" | 0.29 | 0.66 | 1.04 | 1.41 | 1.79 | 2.12 | 2.49 | 2.87 |
| | 24" | 0.69 | 1.59 | 2.49 | 3.40 | 4.30 | 5.08 | 5.98 | 6.88 |
| | 36" | 1.18 | 2.70 | 4.22 | 5.75 | 7.27 | 8.61 | 10.13 | 11.6 |
| | 48" | 1.68 | 3.85 | 6.03 | 8.21 | 10.38 | 12.29 | 14.47 | 16.6 |
| | 60" | 2.08 | 4.77 | 7.47 | 10.16 | 12.85 | 15.21 | 17.90 | 20.6 |
| | 72" | 2.57 | 5.90 | 9.24 | 12.57 | 15.91 | 18.82 | 22.16 | 25.4 |
| | 84" | 2.97 | 6.83 | 10.69 | 14.55 | 18.41 | 21.79 | 25.65 | 29.5 |
| | 96" | 3.46 | 7.94 | 12.42 | 16.91 | 21.39 | 25.31 | 29.80 | 34.2 |

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

LE47 Fixed Intake Louver

| EDP No. | Dimensions (in.) | | EDP No. | Dimensions (in.) | |
|---------|------------------|--------|---------|------------------|--------|
| | Width | Height | | Width | Height |
| 94322 | 12" | 12" | 94237 | 24" | 96" |
| 94200 | 12" | 18" | 94238 | 30" | 12" |
| 94201 | 12" | 24" | 94239 | 30" | 18" |
| 94202 | 12" | 30" | 94377 | 30" | 24" |
| 94203 | 12" | 36" | 94312 | 30" | 30" |
| 94204 | 12" | 42" | 94240 | 30" | 36" |
| 94205 | 12" | 48" | 94241 | 30" | 42" |
| 94206 | 12" | 54" | 94242 | 30" | 48" |
| 94207 | 12" | 60" | 94243 | 30" | 54" |
| 94208 | 12" | 66" | 94244 | 30" | 60" |
| 94209 | 12" | 72" | 94245 | 30" | 66" |
| 94210 | 12" | 78" | 94246 | 30" | 72" |
| 94211 | 12" | 84" | 94247 | 30" | 78" |
| 94212 | 12" | 90" | 94248 | 30" | 84" |
| 94213 | 12" | 96" | 94249 | 30" | 90" |
| 94214 | 18" | 12" | 94250 | 30" | 96" |
| 94318 | 18" | 18" | 94391 | 36" | 12" |
| 94387 | 18" | 24" | 94251 | 36" | 18" |
| 94215 | 18" | 30" | 94349 | 36" | 24" |
| 94216 | 18" | 36" | 94252 | 36" | 30" |
| 94217 | 18" | 42" | 94311 | 36" | 36" |
| 94218 | 18" | 48" | 94293 | 36" | 42" |
| 94219 | 18" | 54" | 94310 | 36" | 48" |
| 94220 | 18" | 60" | 94253 | 36" | 54" |
| 94221 | 18" | 66" | 94254 | 36" | 60" |
| 94222 | 18" | 72" | 94255 | 36" | 66" |
| 94223 | 18" | 78" | 94256 | 36" | 72" |
| 94224 | 18" | 84" | 94257 | 36" | 78" |
| 94225 | 18" | 90" | 94259 | 36" | 84" |
| 94226 | 18" | 96" | 94260 | 36" | 90" |
| 94296 | 24" | 12" | 94261 | 36" | 96" |
| 94227 | 24" | 18" | 94262 | 42" | 12" |
| 94315 | 24" | 24" | 94263 | 42" | 18" |
| 94228 | 24" | 30" | 94264 | 42" | 24" |
| 94314 | 24" | 36" | 94266 | 42" | 30" |
| 94229 | 24" | 42" | 94269 | 42" | 36" |
| 94313 | 24" | 48" | 94308 | 42" | 42" |
| 94230 | 24" | 54" | 94270 | 42" | 48" |
| 94231 | 24" | 60" | 94273 | 42" | 54" |
| 94232 | 24" | 66" | 94276 | 42" | 60" |
| 94233 | 24" | 72" | 94278 | 42" | 66" |
| 94234 | 24" | 78" | 94279 | 42" | 72" |
| 94235 | 24" | 84" | 94508 | 42" | 78" |
| 94236 | 24" | 90" | 94509 | 42" | 84" |



Warning: Cancer and Reproductive Harm www.P65Warnings.ca.gov
This warning is applicable to all products on this page, see page i2 for more information

Intake Louvers

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LE47 Model - Fixed

| EDP No. | Dimensions (in.) | | EDP No. | Dimensions (in.) | | EDP No. | Dimensions (in.) | | EDP No. | Dimensions (in.) | |
|---------|------------------|--------|---------|------------------|--------|---------|------------------|--------|---------|------------------|--------|
| | Width | Height | | Width | Height | | Width | Height | | Width | Height |
| 94510 | 42" | 90" | 94556 | 60" | 78" | 94598 | 78" | 66" | 94624 | 90" | 42" |
| 94511 | 42" | 96" | 94557 | 60" | 84" | 94599 | 78" | 72" | 94634 | 90" | 48" |
| 94512 | 48" | 12" | 94558 | 60" | 90" | 94600 | 78" | 78" | 94635 | 90" | 54" |
| 94513 | 48" | 18" | 94559 | 60" | 96" | 94601 | 78" | 84" | 94636 | 90" | 60" |
| 94514 | 48" | 24" | 94560 | 66" | 12" | 94602 | 78" | 90" | 94637 | 90" | 66" |
| 94515 | 48" | 30" | 94561 | 66" | 18" | 94603 | 78" | 96" | 94638 | 90" | 72" |
| 94306 | 48" | 36" | 94562 | 66" | 24" | 94604 | 84" | 12" | 94639 | 90" | 78" |
| 94516 | 48" | 42" | 94563 | 66" | 30" | 94605 | 84" | 18" | 94640 | 90" | 84" |
| 94304 | 48" | 48" | 94564 | 66" | 36" | 94606 | 84" | 24" | 94641 | 90" | 90" |
| 94517 | 48" | 54" | 94565 | 66" | 42" | 94607 | 84" | 30" | 94642 | 90" | 96" |
| 94303 | 48" | 60" | 94566 | 66" | 48" | 94608 | 84" | 36" | 94643 | 96" | 12" |
| 94518 | 48" | 66" | 94567 | 66" | 54" | 94609 | 84" | 42" | 94644 | 96" | 18" |
| 94519 | 48" | 72" | 94568 | 66" | 60" | 94610 | 84" | 48" | 94645 | 96" | 24" |
| 94520 | 48" | 78" | 94569 | 66" | 66" | 94611 | 84" | 54" | 94646 | 96" | 30" |
| 94521 | 48" | 84" | 94570 | 66" | 72" | 94612 | 84" | 60" | 94647 | 96" | 36" |
| 94522 | 48" | 90" | 94571 | 66" | 78" | 94613 | 84" | 66" | 94648 | 96" | 42" |
| 94523 | 48" | 96" | 94572 | 66" | 84" | 94614 | 84" | 72" | 94649 | 96" | 48" |
| 94524 | 54" | 12" | 94573 | 66" | 90" | 94615 | 84" | 78" | 94650 | 96" | 54" |
| 94525 | 54" | 18" | 94574 | 66" | 96" | 94616 | 84" | 84" | 94651 | 96" | 60" |
| 94526 | 54" | 24" | 94575 | 72" | 12" | 94617 | 84" | 90" | 94652 | 96" | 66" |
| 94527 | 54" | 30" | 94576 | 72" | 18" | 94618 | 84" | 96" | 94653 | 96" | 72" |
| 94528 | 54" | 36" | 94577 | 72" | 24" | 94619 | 90" | 12" | 94654 | 96" | 78" |
| 94529 | 54" | 42" | 94578 | 72" | 30" | 94620 | 90" | 18" | 94655 | 96" | 84" |
| 94530 | 54" | 48" | 94579 | 72" | 36" | 94621 | 90" | 24" | 94656 | 96" | 90" |
| 94289 | 54" | 54" | 94580 | 72" | 42" | 94622 | 90" | 30" | 94660 | 96" | 96" |
| 94538 | 54" | 60" | 94284 | 72" | 48" | 94623 | 90" | 36" | | | |
| 94539 | 54" | 66" | 94581 | 72" | 54" | | | | | | |
| 94540 | 54" | 72" | 94582 | 72" | 60" | | | | | | |
| 94541 | 54" | 78" | 94583 | 72" | 66" | | | | | | |
| 94542 | 54" | 84" | 94584 | 72" | 72" | | | | | | |
| 94543 | 54" | 90" | 94585 | 72" | 78" | | | | | | |
| 94544 | 54" | 96" | 94586 | 72" | 84" | | | | | | |
| 94545 | 60" | 12" | 94587 | 72" | 90" | | | | | | |
| 94546 | 60" | 18" | 94588 | 72" | 96" | | | | | | |
| 94547 | 60" | 24" | 94589 | 78" | 12" | | | | | | |
| 94548 | 60" | 30" | 94590 | 78" | 18" | | | | | | |
| 94549 | 60" | 36" | 94591 | 78" | 24" | | | | | | |
| 94550 | 60" | 42" | 94592 | 78" | 30" | | | | | | |
| 94551 | 60" | 48" | 94593 | 78" | 36" | | | | | | |
| 94552 | 60" | 54" | 94594 | 78" | 42" | | | | | | |
| 94553 | 60" | 60" | 94595 | 78" | 48" | | | | | | |
| 94554 | 60" | 66" | 94596 | 78" | 54" | | | | | | |
| 94555 | 60" | 72" | 94597 | 78" | 60" | | | | | | |

Add 10% for Angle (Flanged) Frames. Add \$21.67 per foot of width for Sill Extensions
Note: Width and Height are wall opening sizes. Louvers are made 1/2" under size.

Available LouverGard Colors:

| | | | |
|-------------|----------------|------------------|----------------|
| Aged Copper | Charcoal Black | Hartford Green | Santa Fe Red |
| Alamo Tan | Citation Gold | IBM Blue | Sierra White |
| Bone White | Coal Black | Medium Bronze | Slate Gray |
| Brick Red | Dark Bronze | Parchment Yellow | Squirrel Brown |
| Buckskin | Dove Gray | Sandstone | Terra Cotta |

LouverGard is a durable gloss based enamel for use in protecting interior and exterior metal surfaces. It is formulated to withstand the rigors of weathering and corrosion.

Options for LE47 & LE47A

| Finishes for LE47 & LE47A Louvers | |
|---|-----------------------------------|
| Finish | Multiplier to Apply to List Price |
| Prime or Clear Lacquer | X 1.20 |
| LouverGard Std. Colors | X 1.30 |
| Kynar™ Standard Colors (70% Kynar) | X 1.55 |
| Anodize 204-R1 Etch & Clear .7 Mil | X 1.40 |
| Anodize 215-R1 Etch & Clear .7 Mil | X 1.55 |
| Anodize Light, Med. Dk. Bronze or Black, .7 Mil | X 1.75 |



For Special Custom Order Products - Once in production non-cancellable, non-returnable under any circumstance.

LE47A Model - Adjustable



1 Year Warranty Features

- Extremely Versatile - For Architectural Designs
- Available in Fixed or Adjustable Blades
- Many Options and Colors Available
- Bird Screen Standard
- Extruded Aluminum
- Weather Resistant



Choosing the proper sized 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

Min. Free Area = Design CFM

$$= \frac{\text{Max. Recommended Velocity}}{740} = \frac{6000}{740} = 8.108 \text{ Sq. Ft.}$$

Step #2

From the free area table the approximate louver size is 36" W x 72" H (8.49 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 | 2.77 | 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.

| EDP No. | Dimensions (in.) | | No. of Blades | EDP No. | Dimensions (in.) | | No. of Blades |
|---------|------------------|--------|---------------|---------|------------------|--------|---------------|
| | Width | Height | | | Width | Height | |
| 94366 | 12" | 12" | 1 | 94433 | 24" | 96" | 17 |
| 94361 | 12" | 18" | 2 | 94434 | 30" | 12" | 1 |
| 94365 | 12" | 24" | 3 | 94435 | 30" | 18" | 2 |
| 94367 | 12" | 30" | 4 | 94351 | 30" | 24" | 3 |
| 94364 | 12" | 36" | 5 | 94350 | 30" | 30" | 4 |
| 94368 | 12" | 42" | 6 | 94401 | 30" | 36" | 5 |
| 94369 | 12" | 48" | 8 | 94436 | 30" | 42" | 6 |
| 94370 | 12" | 54" | 9 | 94437 | 30" | 48" | 8 |
| 94378 | 12" | 60" | 10 | 94438 | 30" | 54" | 9 |
| 94379 | 12" | 66" | 11 | 94439 | 30" | 60" | 10 |
| 94380 | 12" | 72" | 12 | 94440 | 30" | 66" | 11 |
| 94381 | 12" | 78" | 13 | 94441 | 30" | 72" | 12 |
| 94382 | 12" | 84" | 14 | 94442 | 30" | 78" | 13 |
| 94383 | 12" | 90" | 16 | 94443 | 30" | 84" | 14 |
| 94385 | 12" | 96" | 17 | 94445 | 30" | 90" | 16 |
| 94413 | 18" | 12" | 1 | 94446 | 30" | 96" | 17 |
| 94363 | 18" | 18" | 2 | 94447 | 36" | 12" | 1 |
| 94388 | 18" | 24" | 3 | 94347 | 36" | 18" | 2 |
| 94375 | 18" | 30" | 4 | 94392 | 36" | 24" | 3 |
| 94353 | 18" | 36" | 5 | 94346 | 36" | 30" | 4 |
| 94390 | 18" | 42" | 6 | 94344 | 36" | 36" | 5 |
| 94399 | 18" | 48" | 8 | 94448 | 36" | 42" | 6 |
| 94400 | 18" | 54" | 9 | 94343 | 36" | 48" | 8 |
| 94403 | 18" | 60" | 10 | 94449 | 36" | 54" | 9 |
| 94404 | 18" | 66" | 11 | 94342 | 36" | 60" | 10 |
| 94405 | 18" | 72" | 12 | 94450 | 36" | 66" | 11 |
| 94406 | 18" | 78" | 13 | 94345 | 36" | 72" | 12 |
| 94411 | 18" | 84" | 14 | 94451 | 36" | 78" | 13 |
| 94421 | 18" | 90" | 16 | 94452 | 36" | 84" | 14 |
| 94422 | 18" | 96" | 17 | 94453 | 36" | 90" | 16 |
| 94423 | 24" | 12" | 1 | 94454 | 36" | 96" | 17 |
| 94356 | 24" | 18" | 2 | 94455 | 42" | 12" | 1 |
| 94355 | 24" | 24" | 3 | 94415 | 42" | 18" | 2 |
| 94354 | 24" | 30" | 4 | 94456 | 42" | 24" | 3 |
| 94394 | 24" | 36" | 5 | 94340 | 42" | 30" | 4 |
| 94424 | 24" | 42" | 6 | 94457 | 42" | 36" | 5 |
| 94425 | 24" | 48" | 8 | 94339 | 42" | 42" | 6 |
| 94426 | 24" | 54" | 9 | 94458 | 42" | 48" | 8 |
| 94427 | 24" | 60" | 10 | 94459 | 42" | 54" | 9 |
| 94428 | 24" | 66" | 11 | 94460 | 42" | 60" | 10 |
| 94429 | 24" | 72" | 12 | 94461 | 42" | 66" | 11 |
| 94430 | 24" | 78" | 13 | 94462 | 42" | 72" | 12 |
| 94431 | 24" | 84" | 14 | 94463 | 42" | 78" | 13 |
| 94432 | 24" | 90" | 16 | 94464 | 42" | 84" | 14 |

Intake Louvers

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LE47A Model - Adjustable

| EDP No. | Dimensions (in.) | | No. of Blades | EDP No. | Dimensions (in.) | | No. of Blades |
|---------|------------------|--------|---------------|---------|------------------|--------|---------------|
| | Width | Height | | | Width | Height | |
| 94465 | 42" | 90" | 16 | 94331 | 54" | 54" | 9 |
| 94466 | 42" | 96" | 17 | 94489 | 54" | 60" | 10 |
| 94467 | 48" | 12" | 1 | 94490 | 54" | 66" | 11 |
| 94468 | 48" | 18" | 2 | 94491 | 54" | 72" | 12 |
| 94395 | 48" | 24" | 3 | 94494 | 54" | 78" | 13 |
| 94402 | 48" | 30" | 4 | 94495 | 54" | 84" | 14 |
| 94338 | 48" | 36" | 5 | 94496 | 54" | 90" | 16 |
| 94469 | 48" | 42" | 6 | 94497 | 54" | 96" | 17 |
| 94336 | 48" | 48" | 8 | 94498 | 60" | 12" | 1 |
| 94470 | 48" | 54" | 9 | 94499 | 60" | 18" | 2 |
| 94335 | 48" | 60" | 10 | 94500 | 60" | 24" | 3 |
| 94474 | 48" | 66" | 11 | 94501 | 60" | 30" | 4 |
| 94334 | 48" | 72" | 12 | 94502 | 60" | 36" | 5 |
| 94478 | 48" | 78" | 13 | 94329 | 60" | 42" | 6 |
| 94479 | 48" | 84" | 14 | 94330 | 60" | 48" | 8 |
| 94480 | 48" | 90" | 16 | 94503 | 60" | 54" | 9 |
| 94481 | 48" | 96" | 17 | 94328 | 60" | 60" | 10 |
| 94482 | 54" | 12" | 1 | 94504 | 60" | 66" | 11 |
| 94483 | 54" | 18" | 2 | 94396 | 60" | 72" | 12 |
| 94484 | 54" | 24" | 3 | 94505 | 60" | 78" | 13 |
| 94485 | 54" | 30" | 4 | 94506 | 60" | 84" | 14 |
| 94486 | 54" | 36" | 5 | 94507 | 60" | 90" | 16 |
| 94487 | 54" | 42" | 6 | 94393 | 60" | 96" | 17 |
| 94488 | 54" | 48" | 8 | | | | |

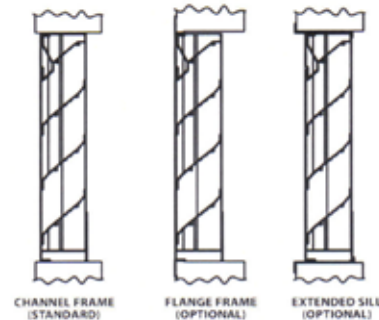


Optional Flange Frame



Standard Channel Frame

LE47 and LE47A



Add 10% for Angle (Flanged) Frames. Add \$21.67 per foot of width for Sill Extensions. **Note:** Width and Height are wall opening sizes. Louvers are made 1/2" under size.

Motorized or Chain Pull Actuators Louvers

For Motorized or Chain Pull Actuator Louvers, Order LE47A and Motor or Chain Pull Actuator

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

Select, Specify and Order LE47 (Manual) and LE47A (Motorized or Chain Pull Actuator) "Width x Height". Transformer for 3 Phase Available.
Note: LE47A Only - Jackshifting to use a single panel actuator on multi-panel louvers - \$2.16 per inch of width.

Optional Louver Screens

| Screen Type | List / Sq. Ft. |
|--|----------------|
| 1/2" .063 aluminum screen | \$4.43 |
| 1/2" .047 aluminum screen | \$12.76 |
| 1/4" .047 aluminum screen | \$26.73 |
| 1/2" .041 galvanized screen | No Add |
| 1/2" .063 galvanized screen | \$4.80 |
| 1/4" .041 galvanized screen | \$19.83 |
| 1/2" .047 stainless steel (304) screen | \$15.41 |
| 1/2" .063 stainless steel (304) screen | \$20.72 |
| Aluminum Insect Screen | \$5.49 |
| Galvanized Insect Screen | \$5.49 |
| Stainless Steel Insect Screen | \$8.86 |
| No Screen DEDUCT | DEDUCT \$5.47 |



Motor Controls - Disconnect Switches & Thermostats

Thermostats & Humidistat

| EDP No. | Catalog No. | Description |
|---------|-------------|--|
| 89576* | XRA-4 | Thermostat (Wall Mt.) 60° to 100° range |
| 24820 | T-1 | Temp. Switch (Wall Mt.) 45° to 85° range |
| 90783 | TS631 | Temp. Switch (Attic Mt.) 70° to 140° range |
| 24880 | H-1 | Humidistat 20% to 80% RH range |

*Single Phase for use up to 3/4 HP

Motor Conversion Kits & Manual Motor Starters

| EDP No. | Catalog No. | Description |
|---------|-------------|---|
| 22982 | MTR-556 SP | 120/240 Volt, for 10 in. sq - 32 in. sq. exhaust shutters |
| 22983 | MTR-556 DP | 120/240 Volt, for 36 in. sq - 48 in. sq exhaust shutters |
| 22984 | MTR-885 DP | 120/240 Volt, for 56 in. sq - 63 in. sq exhaust shutters85388 |
| 85388 | Switch | 115V, 2 Speed, 1 Phase, 3/4 Max HP, 60 Hz Manual Motor Starter without provision for overload protector |

Please specify voltage needed when ordering. Units are for single phase operation. See page 60 for EASR/WC selection and installation information and cautions.

See page 57 for WRHD Heavy Duty Shutter Information

Supply Motor Kits for WC Shutters *Only*

| EDP No. | Catalog No. | Description |
|---------|-------------|---|
| 22900 | MK5047-B | 120/240 Volt, 9" - 36" Supply Shutters |
| 22905 | MK5047-C | 440 Volt, for 9" - 36" Supply Shutters |
| 22908 | MK5047-E | 550 Volt, for 9" - 36" Supply Shutters |
| 22910 | MK-4782-F | 120/420 Volt, for 42" - 48" Supply Shutters |
| 22915 | MK-4782-C | 440 Volt, for 42" - 48" Supply Shutters |
| 22918 | MK-4782-E | 550 Volt, for 42" - 48" Supply Shutters |

Please specify voltage needed when ordering. Units are for single phase operation.

54" Supply Shutter Requires: (1) MK-4782 Motor Kit

60" Supply Shutter Requires: (1) MK-5047 and (1) MK-4782 Motor Kit

See page 60 for EASR-MF/WC selection and installation information and cautions.

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.

Manual Chain Operators for EASR Exhaust Shutters

| EDP No. | 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 |