



*Quality People. Building Solutions.*

Comfort Systems USA (Arkansas), Inc.  
P.O. Box 16620  
Little Rock, AR 72231  
Phone 501-834-3320  
Fax 501-834-5416

**Date:** 3/13/2024

**Return Request:** 3/23/2024

**Project:** Stone Bank HQ - Chenal

**Supplier:** Powers of Arkansas

**Manufacturer:** Loren Cook

**Submittal:** Exhaust Fans

**Submittal Number:** 23 00 00-01

**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

WDD Architects  
5050 Northshore Lane  
N. Little Rock, AR 72118  
501-376-6681

**ENGINEER**

Batson Inc.  
1300 Brookwood Dr.  
Little Rock, AR 72202  
501-664-3311

**GENERAL CONTRACTOR**

East Harding  
2230 Cottondale Lane #3  
Little Rock, AR 72202  
501-661-1646

**MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc.  
9924 Landers Rd.  
N. Little Rock, AR 72117  
501-834-3320

Notes:

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[dpierce@comfortar.com](mailto:dpierce@comfortar.com)

9924 Landers Rd.  
No. Little Rock, AR 72117



# SUBMITTAL

**Stone Bank Headquarters - LR**

**Powers of Arkansas  
5440 Northshore Drive  
North Little Rock, AR 72118**



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**Powers of Arkansas  
5440 Northshore Drive  
North Little Rock, AR 72118**



## SUBMITTAL

<b>PRODUCT</b>	Inline Exhaust Fans
<b>MANUFACTURER</b>	Loren Cook
<b>JOB NAME</b>	Stone Bank Headquarters - LR
<b>LOCATION</b>	Little Rock
<b>ENGINEER</b>	Marc White
<b>CONTRACTOR</b>	Comfort Systems
<b>DATE</b>	2/26/2024
<b>SUBMITTED BY</b>	Brady Smith



# COOK



MARK: EF-4,5,8,9,10,11,23,

PROJECT: STONE BANK HEADQUARTERS - LR

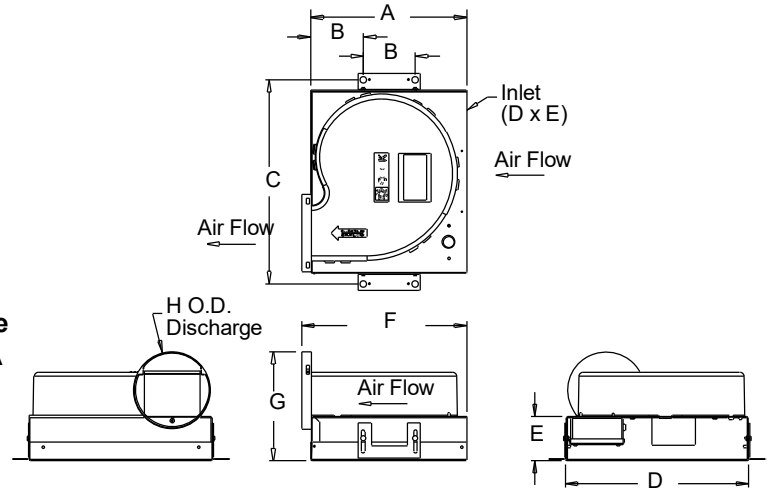
DATE: 2/26/2024

## GEMINI

### Inline Fans 100 Series

#### STANDARD CONSTRUCTION FEATURES:

Forward curved injection molded polypropylene fan wheel -  
Injection molded flame resistant fan housing with round  
outlet duct - 22 ga. galvanized steel inlet box - Permanently  
lubricated 2-speed motor with built-in thermal overload  
protection and disconnect plug - Isolation mounted motor,  
mounted to one piece galvanized stamped steel integral  
motor mount/inlet - Field wiring compartment with receptacle  
- Adjustable prepunched mounting bracket - Shipped in ISTA  
certified transit tested packaging.



#### Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Nominal RPM	Input Watts	Speed Control
8	GN-168	150	.250	1100	51	FSC

Altitude (ft): 1270 Temperature (F): 70

#### Motor Information

Volts/Ph/Hz	Nameplate Amps
115/1/60	.504

#### Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
55	54	57	56	52	47	44	38	57	46	3.0

- Distance from Sound source 5 ft

#### Accessories:

FAN SPEED CONTROLLER 5 AMP 120 VOLT  
INTEGRAL BD DAMPER  
GEMINI ISOLATOR KIT - ISOLATORS

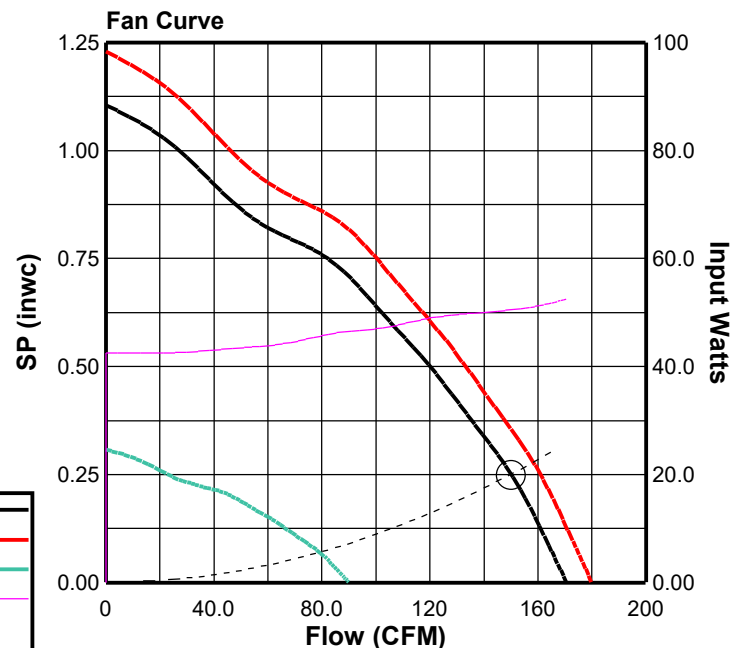
#### Dimensions (inches)

A	12
B	4
C	15-5/8
D	14
E	3-3/8
F	12-3/4
G	8-3/8
H O.D.	5-15/16

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	17	Unit	14
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\*\*\*Includes fan, motor & accessories.



#### Fan Curve Legend

CFM vs SP (1100)	—
100% FSC (1160)	—
Min FSC (580)	—
CFM vs Watts	—
Point of Operation	○
System Curve	---



# COOK

PROJECT: STONE BANK HEADQUARTERS - LR

DATE: 2/26/2024

## FSC

### Fan Speed Controls

#### STANDARD CONSTRUCTION FEATURES:

**PRODUCT DESCRIPTION** - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

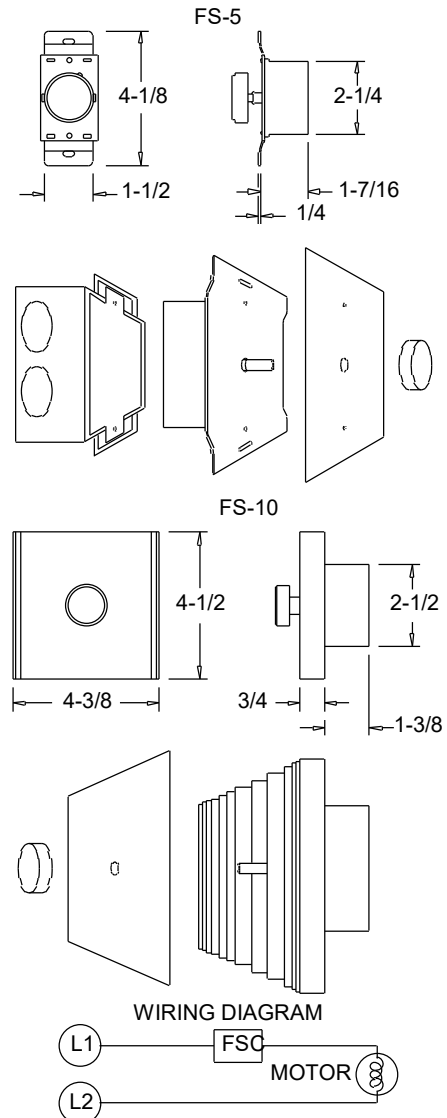
**SPEED CONTROL** - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

#### Dimensions (inches)

Mark	Qty	Description
EF-4,5,8,9,10,11,23,	8	FSC 5 AMP 120 VOLT



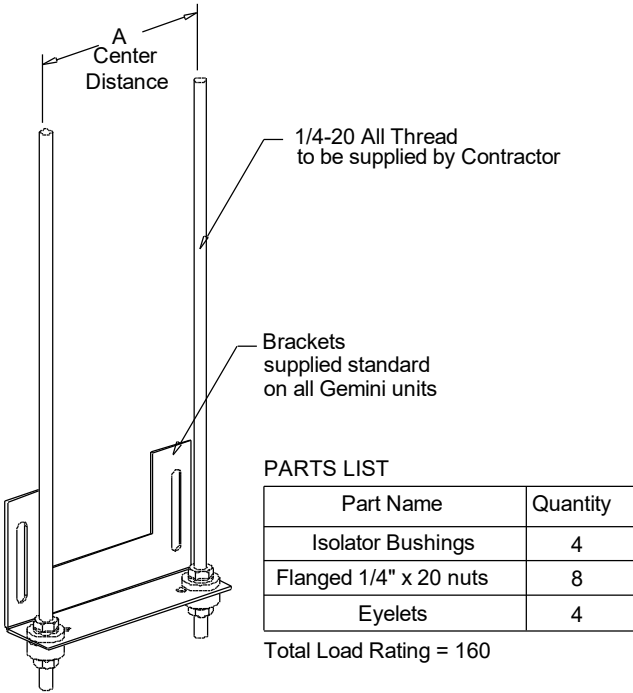


**COOK**

# GEMINI

Gemini Isolator Kit  
GIK  
Rubber In Shear

PROJECT: STONE BANK HEADQUARTERS - LR
DATE: 2/26/2024



## Dimensions (inches)

Mark	Qty	Description	Part #	A
EF-4,5,8,9,10,11,23,	8	GEMINI ISOLATO	GIK	4



# COOK



MARK: EF-6,25

PROJECT: STONE BANK HEADQUARTERS - LR

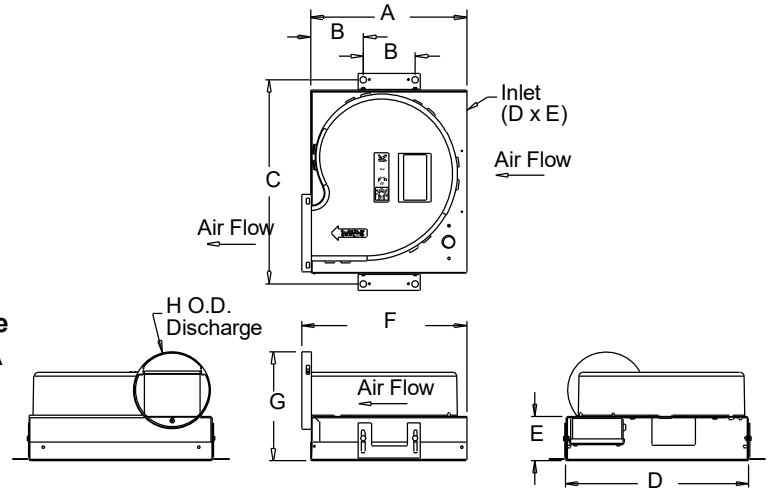
DATE: 2/26/2024

## GEMINI

### Inline Fans 100 Series

#### STANDARD CONSTRUCTION FEATURES:

Forward curved injection molded polypropylene fan wheel -  
Injection molded flame resistant fan housing with round  
outlet duct - 22 ga. galvanized steel inlet box - Permanently  
lubricated 2-speed motor with built-in thermal overload  
protection and disconnect plug - Isolation mounted motor,  
mounted to one piece galvanized stamped steel integral  
motor mount/inlet - Field wiring compartment with receptacle  
- Adjustable prepunched mounting bracket - Shipped in ISTA  
certified transit tested packaging.



#### Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Nominal RPM	Input Watts	Speed Control
2	GN-146	75	.250	816	30	FSC

Altitude (ft): 1270 Temperature (F): 70

#### Motor Information

Volts/Ph/Hz	Nameplate Amps
115/1/60	.313

#### Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
46	48	50	48	41	34	28	19	48	37	1.2

- Distance from Sound source 5 ft

#### Accessories:

FAN SPEED CONTROLLER 5 AMP 120 VOLT  
INTEGRAL BD DAMPER  
GEMINI ISOLATOR KIT - ISOLATORS

#### Dimensions (inches)

A	12
B	4
C	15-5/8
D	14
E	3-3/8
F	12-3/4
G	8-3/8
H O.D.	5-15/16

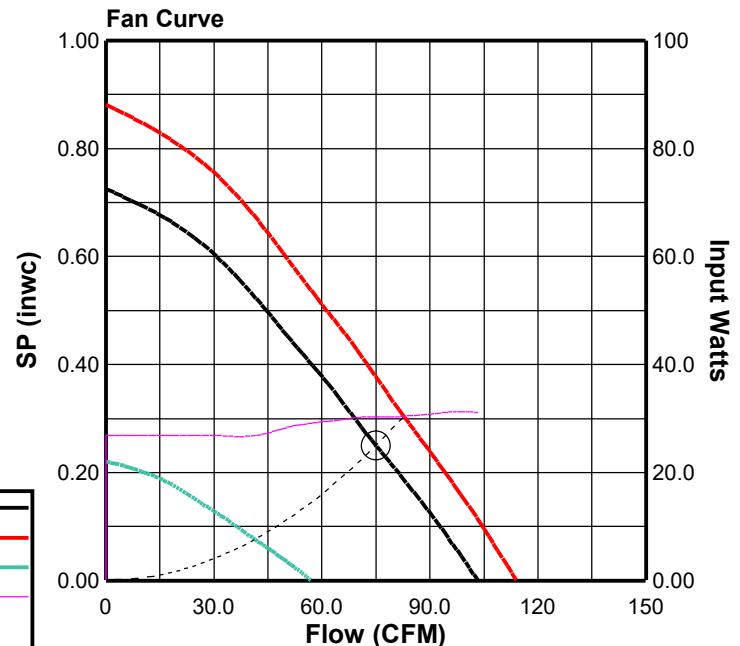
NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	17	Unit	14
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\*\*\*Includes fan, motor & accessories.

#### Fan Curve Legend

CFM vs SP (816)	—
100% FSC (900)	—
Min FSC (450)	—
CFM vs Watts	—
Point of Operation	○
System Curve	-----







# COOK

PROJECT: STONE BANK HEADQUARTERS - LR

DATE: 2/26/2024

## FSC

### Fan Speed Controls

#### STANDARD CONSTRUCTION FEATURES:

**PRODUCT DESCRIPTION** - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

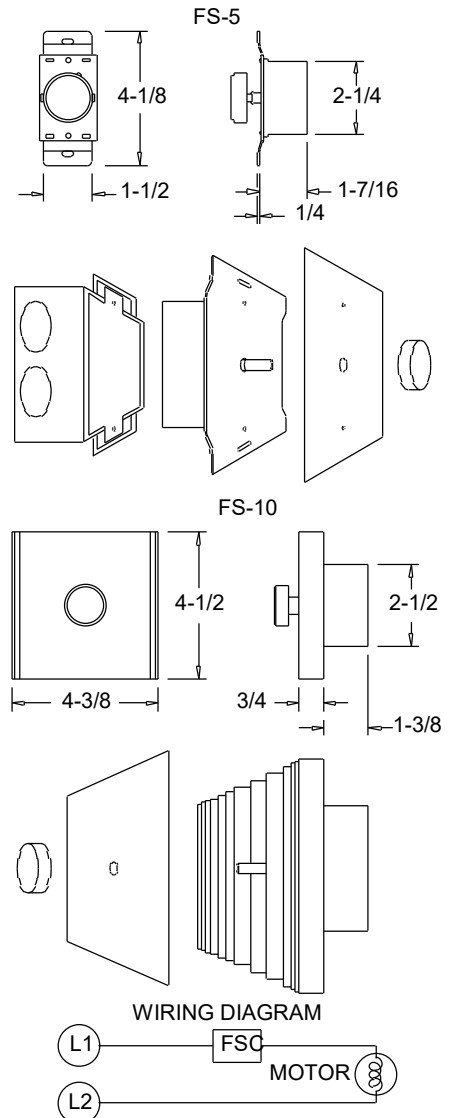
**SPEED CONTROL** - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

#### Dimensions (inches)

Mark	Qty	Description
EF-6,25	2	FSC 5 AMP 120 VOLT



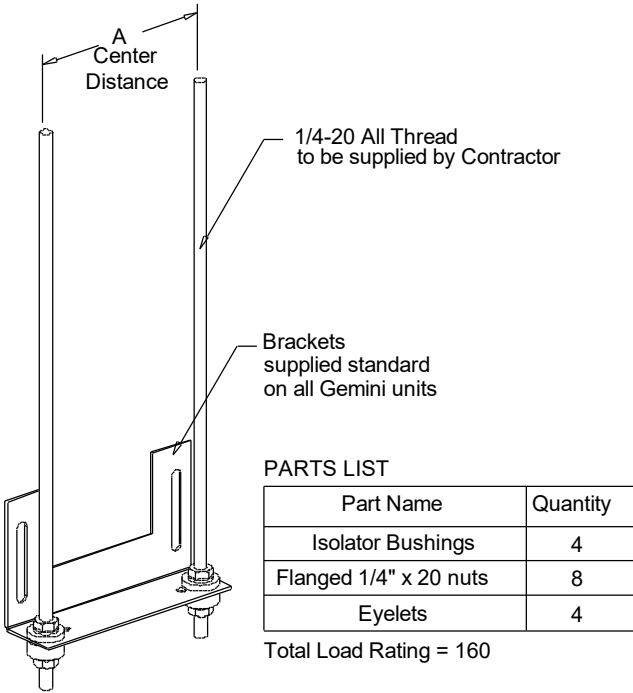


**COOK**

**GEMINI**

**Gemini Isolator Kit  
GIK  
Rubber In Shear**

PROJECT: STONE BANK HEADQUARTERS - LR
DATE: 2/26/2024



**Dimensions (inches)**

Mark	Qty	Description	Part #	A
EF-6,25	2	GEMINI ISOLATO	GIK	4



# COOK



MARK: EF-7,12

PROJECT: STONE BANK HEADQUARTERS - LR

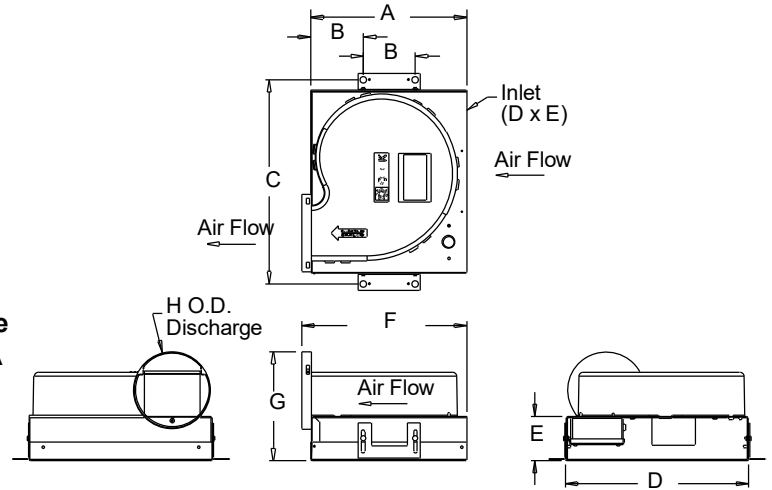
DATE: 2/26/2024

## GEMINI

### Inline Fans 100 Series

#### STANDARD CONSTRUCTION FEATURES:

Forward curved injection molded polypropylene fan wheel -  
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protection and disconnect plug - Isolation mounted motor,  
mounted to one piece galvanized stamped steel integral  
motor mount/inlet - Field wiring compartment with receptacle  
- Adjustable prepunched mounting bracket - Shipped in ISTA  
certified transit tested packaging.



#### Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Nominal RPM	Input Watts	Speed Control
2	GN-188	225	.250	1358	99	FSC

Altitude (ft): 1270 Temperature (F): 70

#### Motor Information

Volts/Ph/Hz	Nameplate Amps
115/1/60	1

#### Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
57	61	67	65	60	56	54	49	66	55	5.5

- Distance from Sound source 5 ft

#### Accessories:

FAN SPEED CONTROLLER 5 AMP 120 VOLT  
INTEGRAL BD DAMPER  
GEMINI ISOLATOR KIT - ISOLATORS

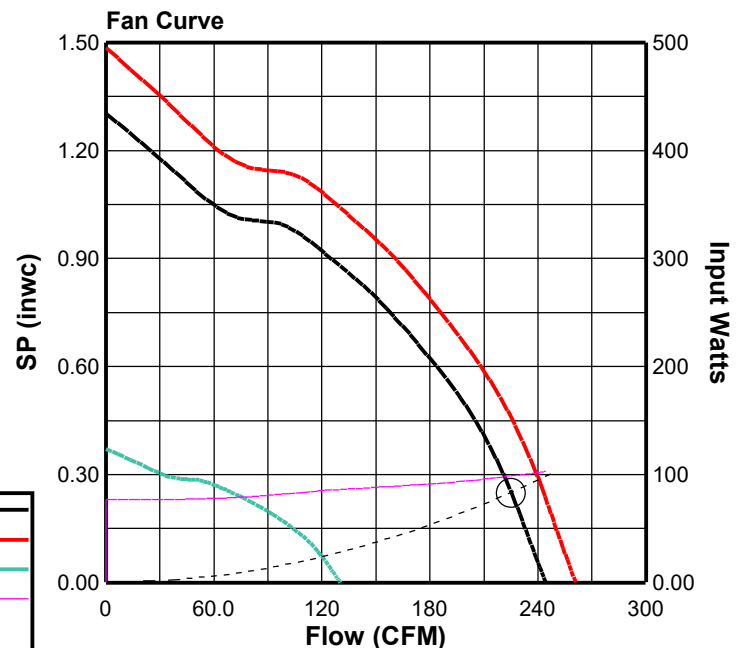
#### Dimensions (inches)

A	12
B	4
C	15-5/8
D	14
E	3-3/8
F	12-3/4
G	8-3/8
H O.D.	5-15/16

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	18	Unit	15
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\*\*\*Includes fan, motor & accessories.



#### Fan Curve Legend

CFM vs SP (1358)	—
100% FSC (1450)	—
Min FSC (725)	—
CFM vs Watts	—
Point of Operation	○
System Curve	---



# COOK

PROJECT: STONE BANK HEADQUARTERS - LR

DATE: 2/26/2024

## FSC

### Fan Speed Controls

#### STANDARD CONSTRUCTION FEATURES:

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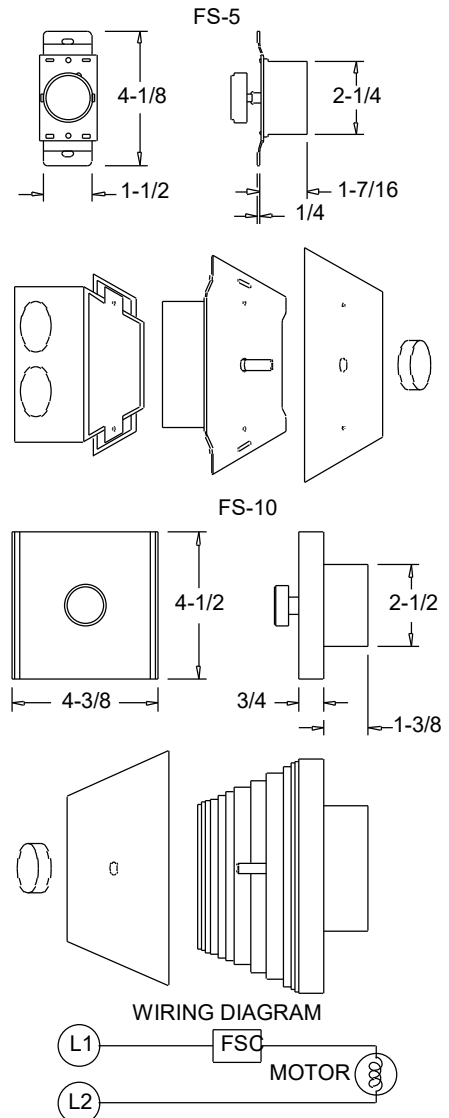
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Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

#### Dimensions (inches)

Mark	Qty	Description
EF-7,12	2	FSC 5 AMP 120 VOLT



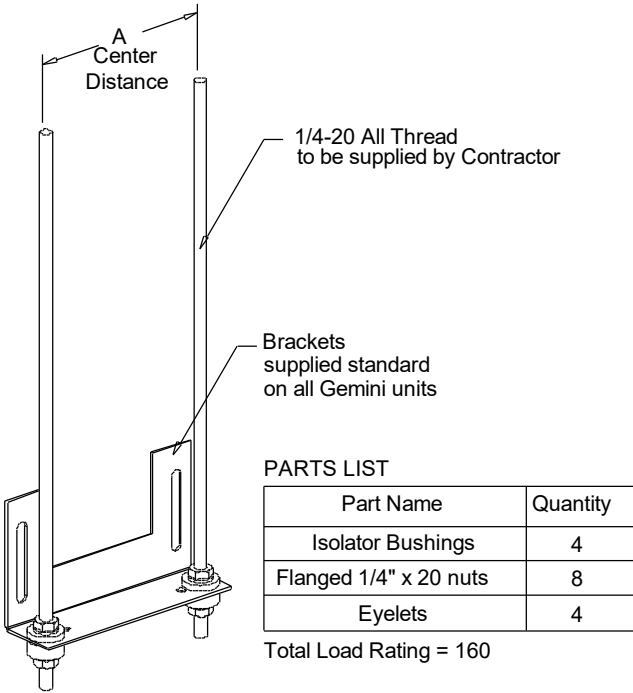


COOK

GEMINI

Gemini Isolator Kit  
GIK  
Rubber In Shear

PROJECT: STONE BANK HEADQUARTERS - LR
DATE: 2/26/2024



Dimensions (inches)

Mark	Qty	Description	Part #	A
EF-7,12	2	GEMINI ISOLATO	GIK	4



## SUBMITTAL

<b>PRODUCT</b>	7 Day Programmable Timer
<b>MANUFACTURER</b>	Intermatic
<b>JOB NAME</b>	Stone Bank Headquarters - LR
<b>LOCATION</b>	Little Rock
<b>ENGINEER</b>	Marc White
<b>CONTRACTOR</b>	Comfort Systems
<b>DATE</b>	2/26/2024
<b>SUBMITTED BY</b>	Brady Smith

## ST01 Series

### Digital In-Wall Timers

The ST01 Series In-Wall Timers are easy-to-program, 4-button programmable timers that allow up to 40 event settings per week. The timers have an Astronomic feature for sunrise and sunset switching.

#### Features

- Easy to program for 24-Hour or 7-Day load control
- Auto Daylight Saving Time adjustment
- CFL/LED compatible
- Astronomic feature provides sunset ON and sunrise OFF settings or combine Astronomic features with specific timed ON/OFF programming
- Low battery indicator
- Continuously displays time of day, mode and load status
- CR2 lithium battery provides up to 2+ years of time keeping without AC power
- Replaces single-pole or 3-way switches in a variety of applications
- Random setting feature available to avoid predictable time controlled look
- User program selections are stored in non-volatile memory
- Controls all voltage/frequencies with no adjustments required
- No neutral required
- Manual override feature

*Not for use with sunlamps, saunas, or loads that could cause personal injury if timed incorrectly.*

#### Ratings

##### Switch Ratings:

Resistive:	15 Amp, 120-277 VAC
Tungsten:	15 Amp, 120 VAC 6 Amp, 208-277 VAC
Ballast (magnetic):	8 Amp, 120 VAC 4 Amp, 208-277 VAC
Motor:	1 HP, 120 VAC 2 HP, 240 VAC
DC Loads:	4 Amp, 12 VDC 2 Amp, 28 VDC
Dimensions:	2.75" H x 1.75" W x 1.46" D
Warranty:	Limited 1 year

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Product Type: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

Model #: \_\_\_\_\_



Model Number	Switch	Manual Override	Neutral Required	Battery Backup	Color
ST01	Single-Pole/3-Way*	Yes	No	Yes	White
ST01A	Single-Pole/3-Way*	Yes	No	Yes	Almond

\*3-way applications up to 100 feet

## Specification

The timer shall be a solid state electronic control, capable of permitting 40 event settings to be distributed through a 7-Day time period, plus one Astro ON and one Astro OFF setpoint per day. The time-of-day event settings shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes. The timer shall have a digital LCD to show mode and time of day using a 12 hour AM/PM indicator. The timer shall provide a manual override control for both temporary and permanent overrides. The timer shall operate over a temperature range of 32°F to 104°F (0°C to 40°C). A lithium battery provides up to 2+ years of time keeping without AC power. User program selections are stored in a non-volatile memory. Switch configuration to be SPST with a CSA listed rating of: Resistive (heater): 15 Amp, 120-277 VAC; Tungsten (incandescent): 15 Amp, 120 VAC; 6 Amp, 208-277 VAC; Ballast (fluorescent): 8 Amp, 120 VAC; 4 Amp, 120 VAC; Motor: 1 HP, 120 VAC; 2 HP, 240 VAC; DC Loads: 4 Amp, 12 VDC; 2 Amp, 28 VDC. The timer must fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall make or break current according to user adjustable program. The timer shall be Intermatic model \_\_\_\_\_ (Almond-ST01AC)(White-ST01C).

## Diagrams

DIAGRAM 1:  
TYPICAL EXISTING  
2-SWITCH SETUP

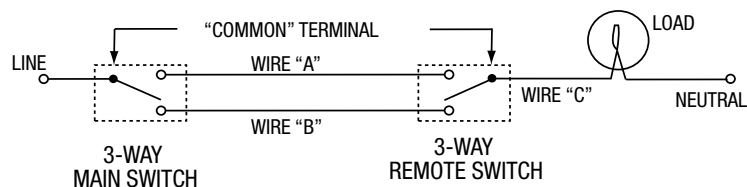


DIAGRAM 2:  
2-SWITCH SETUP,  
TIMER INSTALL  
RE-USING EXISTING  
REMOTE 3-WAY SWITCH

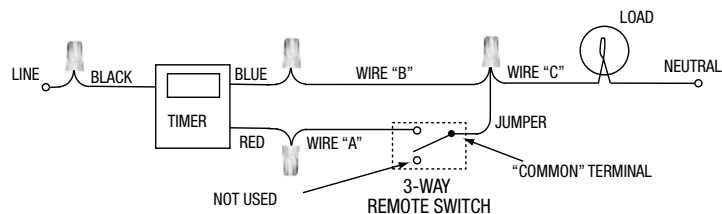


DIAGRAM 3:  
2-SWITCH SETUP,  
TIMER INSTALL USING  
NEW SINGLE-POLE  
REMOTE SWITCH

