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

Date: 12/1/2022 Return Request: 12/11/2022 Project: New Dormitories – Bldg. 6 Supplier: Powers of Arkansas Manufacturer: Raywall Submittal: Unit Heater Submittal Number: 23 82 39-01 Drawing # and Installation: Mechanical Drawings

ARCHITECT

Stocks Mann Architects 401 W. Capitol, Suite 402 Little Rock, AR 72201 501-370-9207

GENERAL CONTRACTOR

Alessi Keyes Construction 10623 Maumelle Blvd. N. Little Rock, AR 72113 501-225-6699

Notes:

<u>ENGINEER</u>

Bernhard TME 1 Allied Drive #2600, Building 2 Little Rock, AR 72202 501-666-6776

MECHANICAL SUBCONTRACTOR

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

CSUSA PROJECT NO. 22-102 jon@comfortar.com

ALESSI KEYES CONSTRUCTION REVIEWED FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS Charley Dawson 12/27/2022



IOM

| PRODUCT | Electric Heaters |
|--------------|----------------------------|
| MANUFACTURER | Raywall |
| JOB NAME | Booneville HDC Building #6 |
| LOCATION | Booneville, AR |
| ENGINEER | Bernhard TME, LLC |
| CONTRACTOR | Comfort Systems |
| DATE | 8/2/2023 |
| SUBMITTED BY | Courtney Michael |

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

AFA

3320 SERIES

1. LOCATION OF HEATER:

- A. Heater is mounted on the wall near ceiling or floor, air flow down. CAUTION: Do not obstruct the front grille of the heater with curtains, furniture, etc., since the proper operation of the heater requires a free flow intake and exhaust of air.
- B. Minimum mounting height is 8" above finished floor.
- C. For surface mounting use adapter AFAA/3320EX33.
- D. For semi-recessed mounting, use adaptor AFAA-2/3320EX16.

2. BEFORE MOUNTING:

- A. Insure that the supply voltage matches voltage rating on the label of the heater.
- B. Turn off electrical power to heater circuit.

3. MOUNTING INSTRUCTIONS:

- A. Disassemble heater by removing 7 screws "C" as shown in Figure 1 and 2.
- B. Flush mounting, see Fig. 1.
- Place rough-in box "A" between studs at desired height: secure to studs through holes "M". The flanges on the rough-in box must rest on the surface of the finished wall; if the box is installed prior to the application of the finished wall, allowance must be made for the wall thickness.
- C. Surface mounting, See Fig. 1. Insert rough-in box "A" into surface adapter "E". Secure the heater rough-in box to wall at desired height through holes "X". Be sure that the rough in box is centered in surface adapter. For surface mounting, bring wiring through bottom knockout "K" only.
- D. Semi-recessed mounting: Secure rough-in box so that the long flanges extend away from the finished wall equal to the depth of the adaptor. Bring service in through top or bottom knockout "K".
- E. Place assembly "B" into rough-in box "A". Secure with six screws "C".

4. WIRING INSTRUCTIONS REF: WD1, WD2, WD3, WD4, WD5, WD6

- A. Bring service leads through knockout "K" on top or bottom of roughin box for flush or semi-recessed mounting, bottom knockout "K" only for surface mounting. When wiring from the bottom, install wire through cover "G" by removing screw "H".
- B. Attach service leads to two black leads on 208-240 volt models and to black and white leads on 120-277 volt models, attach ground lead to green wire with approved connectors. Comply with all national and local codes.
- C. Attach wiring compartment cover "D" to assembly with screw "C".

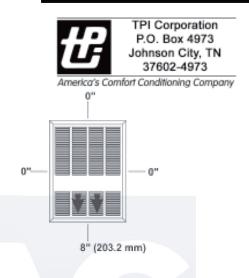
5. FINAL STEPS:

- A. Clean all construction dirt and debris from inside heater.
- B. Attach front grille "F" with four screws "L".
- C. Place grille frame over tabs on top of grille, snap bottom in place. For added security install screw "Q" into bottom of frame.

6. OPERATING INSTRUCTIONS:

- A. Turn on power at the circuit breaker panel.
- B. Thermostat adjustment is made by inserting a small blade screw driver through grille opening into slot in stem. Turn thermostat adjustment stem fully clockwise, this will energize the heating element and after a short delay, the fan should energize, causing warm air discharge from bottom of the grille.
- C. After the desired temperature is reached, turn thermostat stem counter clockwise until a click is heard from the thermostat.
- D. Models with double-pole thermostats: Turn thermostat adjustment stem fully counter-clockwise, this will de-energize the heating element and fan.

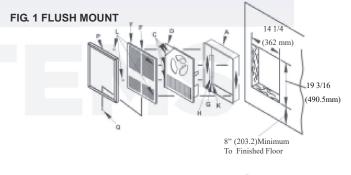
INSTALLATION INSTRUCTIONS

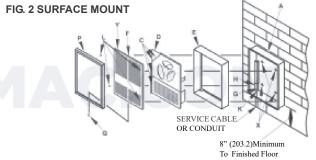


7. CLEANING AND MAINTENANCE INSTRUCTIONS:

Wall Installation

- A. At the beginning of each heating season, disconnect electrical power at circuit breaker panel. Remove front grille.
- B. Use the narrow (crevice" suction attachment of the vacuum cleaner to remove dust and lint from heater and heating element.
- C. Lubricate the motor with SAE No. 10 oil. Two (2) oil spouts are located on front and back of motor.
- D. Reinstall front grille with previously removed screws. Restore power to the heater.

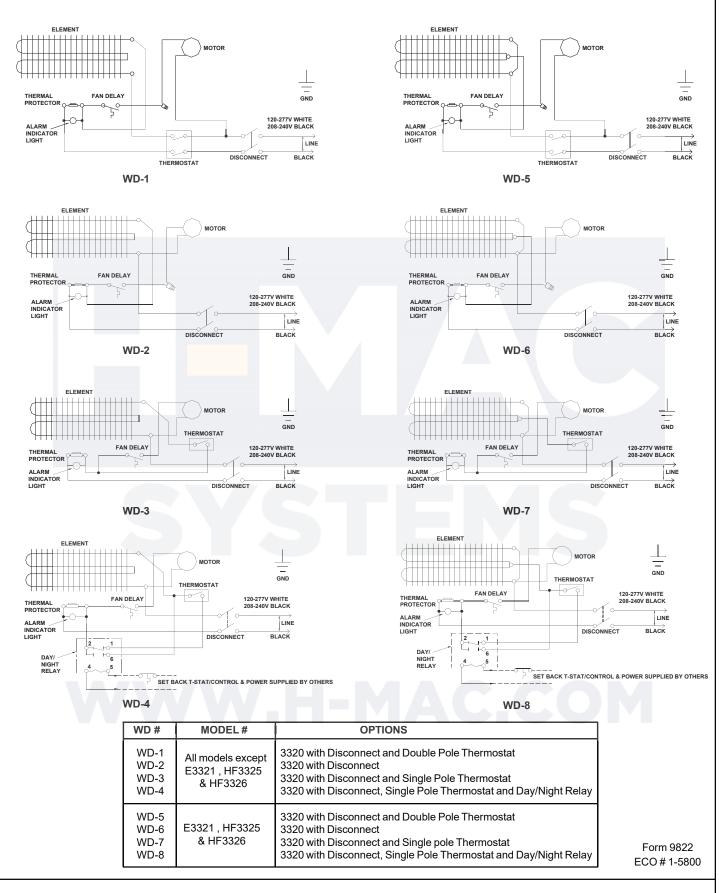




Note: This heater employs a visual alarm (light) to warn that parts of the heater are getting excessively hot. If the alarm illuminates, immediately disconnect power from heater and inspect for any objects on or adjacent to the heater that may cause high temperatures. DO NOT OPERATE HEATER WITH THE ALARM (LIGHT) ILLUMINATED.

IMPORTANT: OWNER SHOULD RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

3320 SERIES



IMPORTANT: OWNER SHOULD RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE



Transmittal

| PROJECT: | DJECT: New Dormitories - Phase 2, Bldg. 6 Booneville Human Development Center | | | 2002B | |
|-------------|--|----------------------|---|--------------------------------------|--|
| | Booneville, Arkansas | | DATE: | January 20, 2023 | |
| TO: | Alessi Keyes Construction 10623 Maumelle Blvd. North Little Rock, AR 727 | | If enclosures are not as noted, please inform us immediately. If checked below, please: | | |
| ATTN: | Charley Dawson | | Acknowledge r | eceipt of enclosures. ures to us. | |
| WE TRANSMIT | : | | | | |
| X | Herewith | Under separate cover | | | |
| | Courier | Mail | E-mail | | |
| | Overnight delivery | Fax | X Other | | |
| FOR YOUR: | | | | | |
| | Approval/Action | Information | Use as request | ed | |
| | Review & comment | XUse | Other | | |
| THE FOLLOWI | NG: | | | | |
| | Drawings | Specifications | X Digital Files - P | DF | |
| X | Submittals | Proposal Request | Digital Files - O | ther | |
| | Change Order | Samples | Other | | |

| COPIES | DATE | REV. NO. | DESCRIPTION | ACTION CODE |
|--------|-----------------------|----------|--|-----------------|
| 1 | 1/20/2023 | | Unit Heaters | A |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| ACTION | A. No action required | 8 | C. For signature and return to this office E. Se | e REMARKS below |

CODE B. Action indicated on item transmitted

D. For signature and forwarding as noted below under REMARKS

REMARKS

| COPIES TO: | (with enclosures) | |
|---|-------------------|------------------|
| Rex Morris, Morris AE | | |
| | | By: Randy Stocks |
| 401 W. CAPITOL, SUITE 402 LITTLE BOCK AB 72201 | | |



Submittal Comment Sheet

| To: | Randy Stocks, Stocks-Mann Architects |
|---------------|--------------------------------------|
| From: | Matthew Wendel, BTME |
| Date: | January 20, 2023 |
| Project: | Booneville HDC Building #6 |
| Project # | 01-20-0003 |
| Ref: | 23 82 39 Unit Heater Submittal |
| Submitted By: | Alessi Keyes Construction |



Below find our response for the submittal received on Tuesday, December 27, 2022.

1. Unit Heaters EH-601 through EH-605

APPROVED

- End of Submittal Comments -

THIS REVIEW PERFORMED BY BERNHARD TME, LLC, IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTAL AND/OR SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE AN APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: ALL QUANTITIES; CONFIGURATION OF COMPONENTS; DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES; AND, FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.



SUBMITTAL SHEET

Alessi Keyes Construction Co. AKC-505 - Booneville HDC New Dorm

Project: AKC-505 Booneville HDC New Dorm

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 Spec Section Num:
 23 82 39

 Submittal:
 23.16

 Revision:
 0

 Package:
 HVAC

 Date:
 1/3/2023 UTC

Submittal Title:Unit HeatersSubmittal Detail:1/11/2023 UTC

Contractor:

Charley Dawson Alessi-Keyes Construction Co. Contractor's Stamp

Architect: Trey Tassin Stocks-Mann Architects Architect's Stamp

Response: Comment:



SUBMITTAL

| PRODUCT | Electric Heaters |
|--------------|----------------------------|
| MANUFACTURER | Raywall |
| JOB NAME | Booneville HDC Building #6 |
| LOCATION | Booneville, AR |
| ENGINEER | Bernhard TME, LLC |
| CONTRACTOR | Comfort Systems |
| DATE | 11/21/2022 |
| SUBMITTED BY | Courtney Michael |

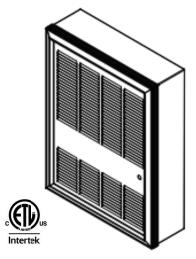
5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298



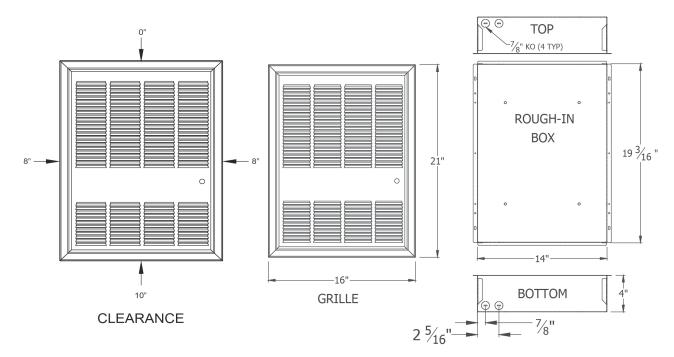


AFA SERIES FAN FORCED WALL HEATER

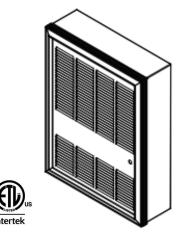
| SALES ORDER NO. | | QUOTE | 7GLWD |
|-----------------|----------|-------|------------|
| CUSTOMER | | DATE: | 11/19/2022 |
| PROJECT | New Job | | |
| SALES REP | | | |
| ENGINEER | | | |
| CONTRACTOR | | | |
| SUBMITTED BY | Powersar | | |
| APPROVED BY | | | |
| APPROVED BY | | | |



| | SUBMITTAL DATA SHEET | | | | | | | | | |
|--------------------------------|----------------------|-----|---------|-------|-------|------|-----|------------|-------------------|----------|
| QTY | MODEL | TAG | WATTAGE | VOLTS | PHASE | AMPS | CFM | DISCONNECT | THERMOSTAT | OPTIONS |
| 5 | AFA107D | | 750 | 120 | 1 | 6.25 | 175 | Yes | Single Pole Tstat | 3320EX33 |
| NOTES/SPECIAL INSTRUCTIONS: | | | | | | | | | | |



- Heavy 18 gauge steel construction (16 gauge grille optional)
- Powder coated paint finish
- Steel block fin element
- All units equipped with automatic over-heat limit protection
- Vane axial fan blade produces 175 CFM
- Dual wattage and voltage units available for 208/240 volts
- Surface Mounting Frame (shown) available for non-recessed applications
- Factory installed Tamper-Proof Thermostats, Fan Delay, and Disconnect included



| MFG CATALOG NUMBER | MFG MODEL NUMBER | WATTS | BTUs | VOLTS | AMPS | WT. (LBS) |
|--|------------------|-------------|---------------|-----------|-------------|-----------|
| IN-BUILT SINGLE POLE TAMPERPROOF THERMOSTAT(0° - 110° TEMPERATURE RANGE) FOR DOUBLE POLE THERMOSTAT REPLACE "T" IN MODEL WITH "T2" - Add \$50 | | | | | | |
| 03820502 | AFA107D | 750 | 2560 | | 6.25 | |
| 03819902 | AFA110D | 1000 | 3413 | 120 | 8.3 | |
| 03808802 | AFA115D | 1500 | 5120 |] | 12.5 | 26 |
| 03809302 | AFA840D | 4000 | 13800 | 208 | 19.2 | |
| 03810202 | AFA848D | 4800 | 16560 | 200 | 23 | |
| 03809402 | AFA215D | 1500 / 1125 | 5120 / 3840 | | 6.2 / 5.4 | |
| 03809502 | AFA220D | 2000 / 1500 | 6284 / 5120 | | 8.3 / 7.2 | 27 |
| 03809602 | AFA230D | 3000 / 2250 | 10350 / 7763 | 240 / 208 | 12.5 / 10.8 | 29 |
| 03809702 | AFA240D | 4000 / 3000 | 13800 / 10350 | | 16.7 / 14.4 | |
| 03810302 | AFA248D | 4800 | 16560 | 240 | 20 | 1 |
| 03809802 | AFA715D | 1500 | 5120 | | 4.1 | 26 |
| 03809902 | AFA720D | 2000 | 6284 | 1 | 7.2 | 27 |
| 03810002 | AFA730D | 3000 | 10350 | 277 | 10.8 | |
| 03810102 | AFA740D | 4000 | 13800 | 1 | 14.4 | 29 |
| 03810402 | AFA780D | 4800 | 16560 | | 17.3 | |
| 03980702 | AFA840D-3* | 4000 | 13800 | 208 | 11.11 | |
| 03980802 | AFA240D-3* | 4800 | 16560 | 208 | 13.33 | |
| 03980902 | AFA848D-3* | 4000 | 13800 | 240 | 9.64 | 30 |
| 03981002 | AFA248D-3* | 4800 | 16560 | 240 | 11.57 | |

* Indicates 3-Phase models. All other models are 1-Phase.

Accessories

| MFG CATALOG NUMBER | MFG MODEL NUMBER | DESCRIPTION | TYPE | WT. (LBS) |
|--------------------|------------------|---------------------------------|-------------------|-----------|
| 03778502 | BOX AFA | Additional Rough-in Box | | 3 |
| 03784502 | AFAEX33 | 4" Surface Mounting Frame | Field Installed | 1 |
| 03829302 | AFAEX16 | 2" semi recess extender | | 1 |
| | Suffix - HD | 16 Gauge Steel Heavy Duty Grill | Factory Installed | 2 |

Product Specifications

Furnish and install Heavy-Duty Forced Air wall heaters, where specified. The heaters shall be constructed of a heavy 18 gauge steel housing with an extruded Aluminum frame. The rough-in dimensions are 14 ¹/₈" Wide x 19 ¹/₂" High x 4" Deep. The units shall be available in ratings from 750 to 4800 Watts at 240, 208, and 277 Volts. The heaters shall have a low-speed 600 RPM, 4-pole motor which drives a vane axial blower to deliver a quiet 175 CFM of down flow air. The heating element shall be of the sealed tubular type with large, parallel steel fins for quick heat transfer. Unit shall have as a standard, a thermal overload cut-off for added safety, fan delay switch and builtin tamper proof thermostat which shall be calibrated to provide a range of 0°F. to 110°F. and manual disconnect switch. Optional accessories shall include a surface and semi-recess mounting adapter. All heaters shall be listed by ETL. The heating element shall be supplied with a manufacturers 1-year limited warranty

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Unit Heaters Alessi Keyes Construction Co. AKC-505 - Booneville HDC New Dorm

Comments



Unit Heaters Alessi Keyes Construction Co. AKC-505 - Booneville HDC New Dorm



History

| JANUARY 3, 2023 UTC | Trey Tassin (Stocks-Mann Architects) - VIEWED 3:22 PM UTC |
|--------------------------|--|
| DECEMBER 27, 2022 UTC | Charley Dawson (Alessi-Keyes Construction Co.) - IN REVIEW 6:10 PM UTC |
| | Charley Dawson (Alessi-Keyes Construction Co.) - MODIFIED 6:10 PM UTC |
| | 6:10 PM UTC Due from Approver: Old: New: 1/11/23 UTC Due Date: Old: New: 1/11/23 UTC In Review Date: Old: New: 12/27/22 UTC Updated On: Old: 12/27/22 at 6:08:39 PM UTC New: 12/27/22 at 6:10:48 PM UTC CC Participants: Old: New: Bernhard TME Project, Randy Stocks Additional Approvers: Old: New: Bernhard TME Project, Randy Stocks Additional Approvers: Old: New: Garrett Thompson Assigned From: Old: Matthew Aldridge New: Charley Dawson Assigned To: Old: Charley Dawson New: Trey Tassin Approver: Old: New: Trey Tassin Charley Dawson (Alessi-Keyes Construction Co.) - UPLOADED FileName: 23 82 39 - Unit Heaters.pdf 6:10 PM UTC Charley Dawson (Alessi-Keyes Construction Co.) - SUBMITTED 6:08 PM UTC |
| | Charley Dawson (Alessi-Keyes Construction Co.) - MODIFIED 6:08 PM UTC |
| | Submitted Date: Old: New: 12/27/22 UTC Updated On: |



Old: 12/27/22 at 6:08:23 PM UTC New: 12/27/22 at 6:08:39 PM UTC Assigned From: **Old:** Charley Dawson New: Matthew Aldridge Assigned To: **Old:** Matthew Aldridge New: Charley Dawson Charley Dawson (Alessi-Keyes Construction Co.) - ISSUED 6:08 PM UTC Charley Dawson (Alessi-Keyes Construction Co.) - MODIFIED 6:08 PM UTC Issued Date: Old: New: 12/27/22 UTC Updated By: Old: **New:** Charley Dawson (Alessi-Keyes Construction Co.) Updated On: Old: New: 12/27/22 at 6:08:23 PM UTC Assigned From: Old: New: Charley Dawson Assigned To: Old: New: Matthew Aldridge Charley Dawson (Alessi-Keyes Construction Co.) - VIEWED 6:08 PM UTC Charley Dawson (Alessi-Keyes Construction Co.) - CREATED 5:42 PM UTC