

RE-VERBER-AIR HEATER SUBMITTAL SHEET

UH-SS/FA-SS SERIES UNIT HEATERS

GAS-FIRED, INDUCED DRAFT, HOT AIR UNIT HEATERS & ACCESSORIES

PROJECT ID: _____	ADDRESS: _____
PROJECT NAME: _____	_____
DATE: _____	CITY: _____ STATE: _____ ZIP: _____
.....	
Submitted By: _____	Address: _____
Company: _____	_____
Phone: _____	City: _____
Email: _____	State: _____ Zip: _____
.....	
Engineer: _____	Contractor: _____
Phone/Email: _____	Phone/Email: _____
Address: _____	Address: _____
City: _____	City: _____
State: _____ Zip: _____	State: _____ Zip: _____

QTY.	MODEL NO.	TAG	INDICATE GAS TYPE	BTU/h		APPROX. HEAT THROW	AVERAGE AIR TEMP. RISE	VENT LENGTH ¹		TYP. OR RCMD. MOUNTING HEIGHTS ¹	SHIP WEIGHT
				INPUT	OUTPUT			MIN.	MAX.		
	UH-60-SS		Nat. or Prop.	60,000	48,000	37 ft.	45°F	3 ft.	30 ft.	10 to 16 ft.	103 lbs.
	FA-100-SS		Nat. or Prop.	100,000	80,000	43 ft.	50°F	3 ft.	40 ft.	12 to 14 ft.	148 lbs.
	FA-250-SS		Nat. or Prop.	250,000	200,000	63 ft.	50°F	3 ft.	40 ft.	16 to 18 ft.	217 lbs.

¹Deduct 3 ft. (on 3 in. vent), 5 ft. (on 4 in. vent), or 7 ft. (on 6 in. vent) for each elbow added to venting.

UH-SS/FA-SS SERIES FEATURED SPECIFICATIONS

APPROVALS

- ETL Listed
- Commercial/Industrial Approval
- Residential Use (UH Series only)
- Indoor Use Only

VOLTAGE

- 120 VAC/60 Hz (primary)
- 24 VAC (thermostatic)
- Single phase

MANIFOLD PRESSURE (Inches W.C.)

- Natural Gas: 3.5
- Propane: 10.0

INLET PRESSURE (Inches W.C.)

- Natural Gas: 5.0 to 14.0
- Propane: 11.0 to 14.0

GAS CONNECTION

- UH-60-SS: ½" NPT
- FA-100-SS: ½" NPT
- FA-250-SS: ¾" NPT
- Field connect to valve

VENT & INLET CONNECTION

- Category I or III venting
- Rear, horizontal discharge/inlet
- 3" to 4" inlet adapter included (UH Series only)

MOUNTING

- Four (4) suspension points
- Non-reversible horizontal mounting (FA Series)
- Four (4) ⅜"-16 threaded inserts for mounting (FA Series)
- Slotted mounting brackets accommodate joists on 16- or 24-inch centers (UH Series)

OTHER

- 409 grade stainless steel core
- 304 grade stainless steel jacket and vest panel
- Totally enclosed (TE) motor
- Finger-proof fan guards standard
- External indicator lights
- External thermostatic connection
- Approved for 0–2,000 ft. elevations without modifications
- Supplied standard as separated combustion

LIMITED WARRANTY

- 1 year—Components
- 5 years—Heat exchangers
- 10 years—Burners

MODEL	FLA AMPS	MOTOR TYPE	MOTOR HP	FAN DIAMETER	AXIAL FAN ROTATION	GAS CONNECTION	INLET & VENT CONNECTION
UH-60-SS	4.0	PSC	1/12	14 in.	CCW	1/2" NPT	4" O.D.
FA-100-SS	5.2	PSC	1/8	18 in.	CCW	1/2" NPT	4" O.D.
FA-250-SS	10.7	PSC	1/3	22 in.	CCW	3/4" NPT	6" O.D.

FIELD CONVERSION REFERENCE CHART

SUPPLIED AS	CONVERSION TO	AVAILABILITY	PART REFERENCE ²
Separated Combustion	Power Vented, Room Air	Standard	See IOPM
Natural Gas	Propane Gas	Optional	HKP
0–2,000 MSL	2,001–4,500 MSL	Optional	HKN or HKP
0–2,000 MSL	4,501–7,000 MSL	Optional	HKN or HKP
0–2,000 MSL	7,001–9,500 MSL	Optional	HKN or HKP

²Consult heater Installation, Operation, Parts, and Maintenance Manual for conversion kit reference and instructions.

OPTIONAL ACCESSORIES

- CVK-4** 4" Concentric Vent Kit for use when venting and combustion air is desired through a single wall or roof penetration. For use with UH-60 and FA-100 models. No vent pipe or B-vent material is included.
- CVK-6** 6" Concentric Vent Kit for use when venting and combustion air is desired through a single wall or roof penetration. For use with FA-250 models. No vent pipe or B-vent is included.
- _____
- _____
- _____



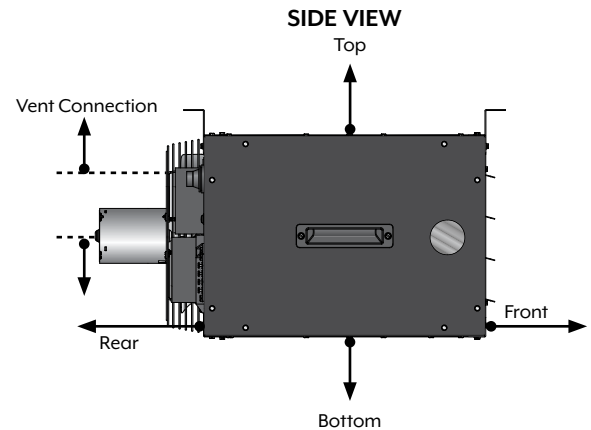
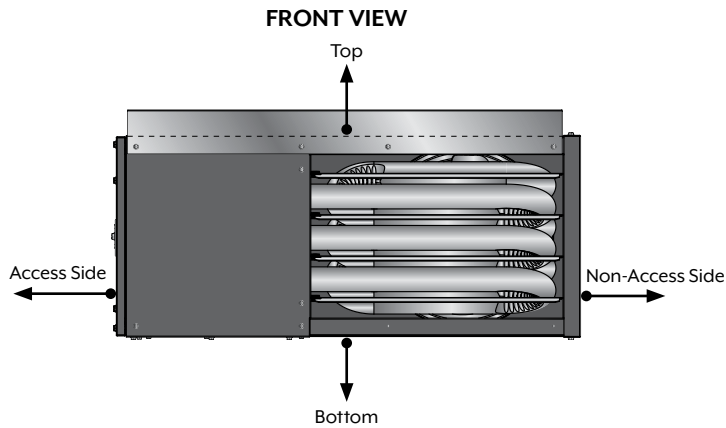
Detroit Radiant Products | Phone: (586) 756-0950
21400 Hoover Rd. | Email: sales@drp-co.com
Warren, MI 48089 | www.reverberray.com

RE-VERBER-AIR SAFETY SUBMITTAL SHEET

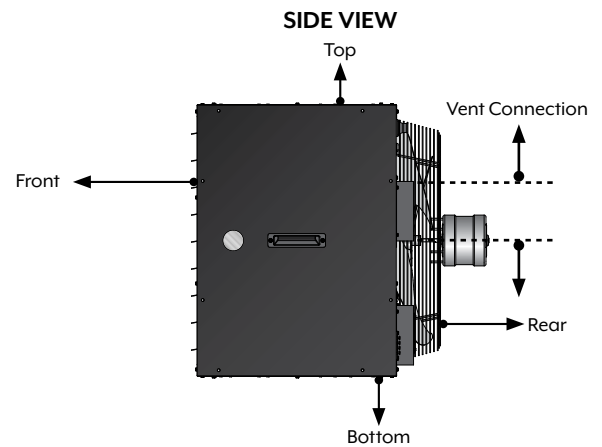
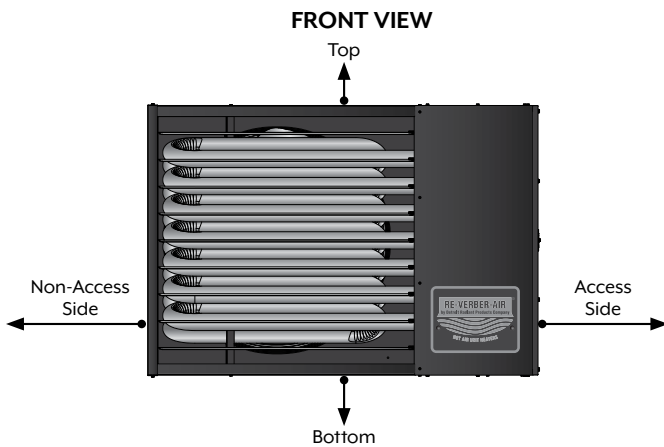
UH/FA-SS SERIES CLEARANCES TO COMBUSTIBLES

All listed clearances to combustibles are in inches.

UH-60-SS	FRONT	TOP AND BOTTOM	ACCESS SIDE	NON-ACCESS SIDE	REAR	VENT CONNECTION
Clearance to Combustibles	60 in.	1 in.	18 in.	1 in.	1 in.	6 in.
Clearance to Allow Service	60 in.	1 in.	18 in.	1 in.	18 in.	6 in.



FA-100-SS AND FA-250-SS	FRONT	TOP AND BOTTOM	ACCESS SIDE	NON-ACCESS SIDE	REAR	VENT CONNECTION
Clearance to Combustibles	60 in.	1 in.	18 in.	1 in.	1 in.	6 in.
Clearance to Allow Service	60 in.	1 in.	18 in.	1 in.	18 in.	6 in.



Read and understand the installation, operation, and maintenance manual prior to installing or servicing this unit.

In locations used for the storage of combustible materials, signs must be posted adjacent to the heater's thermostat specifying stacking heights.



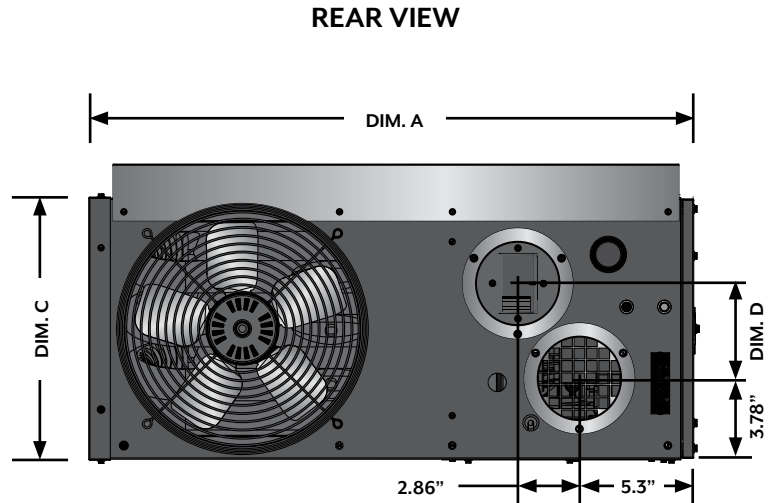
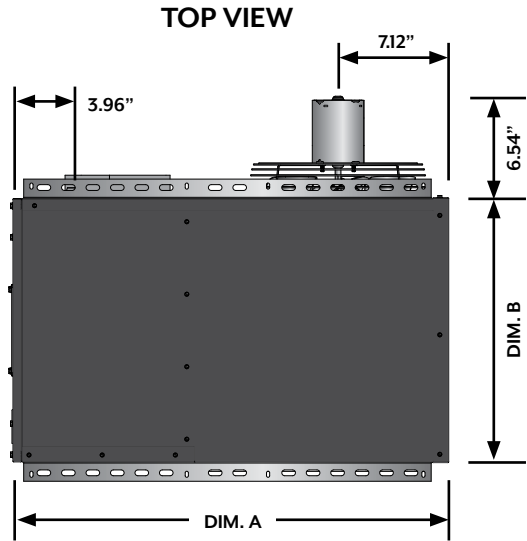
**DETROIT RADIANT
PRODUCTS COMPANY**
Detroit Radiant Products | Phone: (586) 756-0950
21400 Hoover Rd. | Email: sales@drp-co.com
Warren, MI 48089 | www.reverberray.com

LSUHFASSc-II/24 (DRPC)

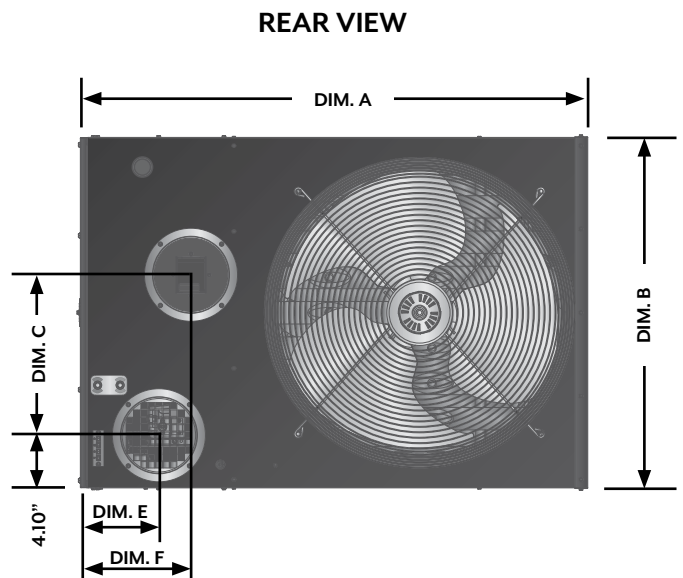
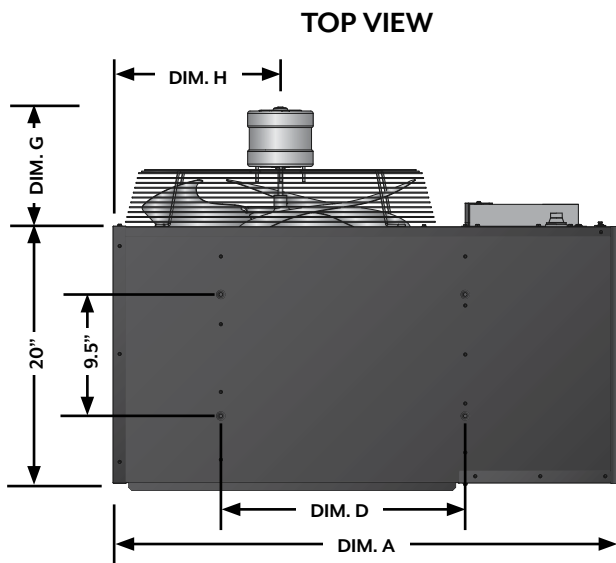
RE-VERBER-AIR DIMENSIONAL SUBMITTAL SHEET

UH-SS/FA-SS SERIES DIMENSIONS

MODEL NO.	HEATER WIDTH DIM. A	HEATER DEPTH DIM. B	HEATER HEIGHT DIM. C	AIR TO VENT DIM. D
UH-60-SS	28 in.	17 in.	17 in.	7.4 in.



MODEL NO.	HEATER WIDTH DIM. A	HEATER HEIGHT DIM. B	AIR TO VENT DIM. C	MOUNTS AXIS DIM. D	DIM. E	DIM. F	DIM. G	DIM. H
FA-100-SS	40.0 in.	21.0 in.	9.375 in.	19.125 in.	6.12 in.	8.6 in.	9.3 in.	13.1 in.
FA-250-SS	40.0 in.	30.0 in.	13.875 in.	19.125 in.	6.12 in.	8.6 in.	9.3 in.	13.1 in.

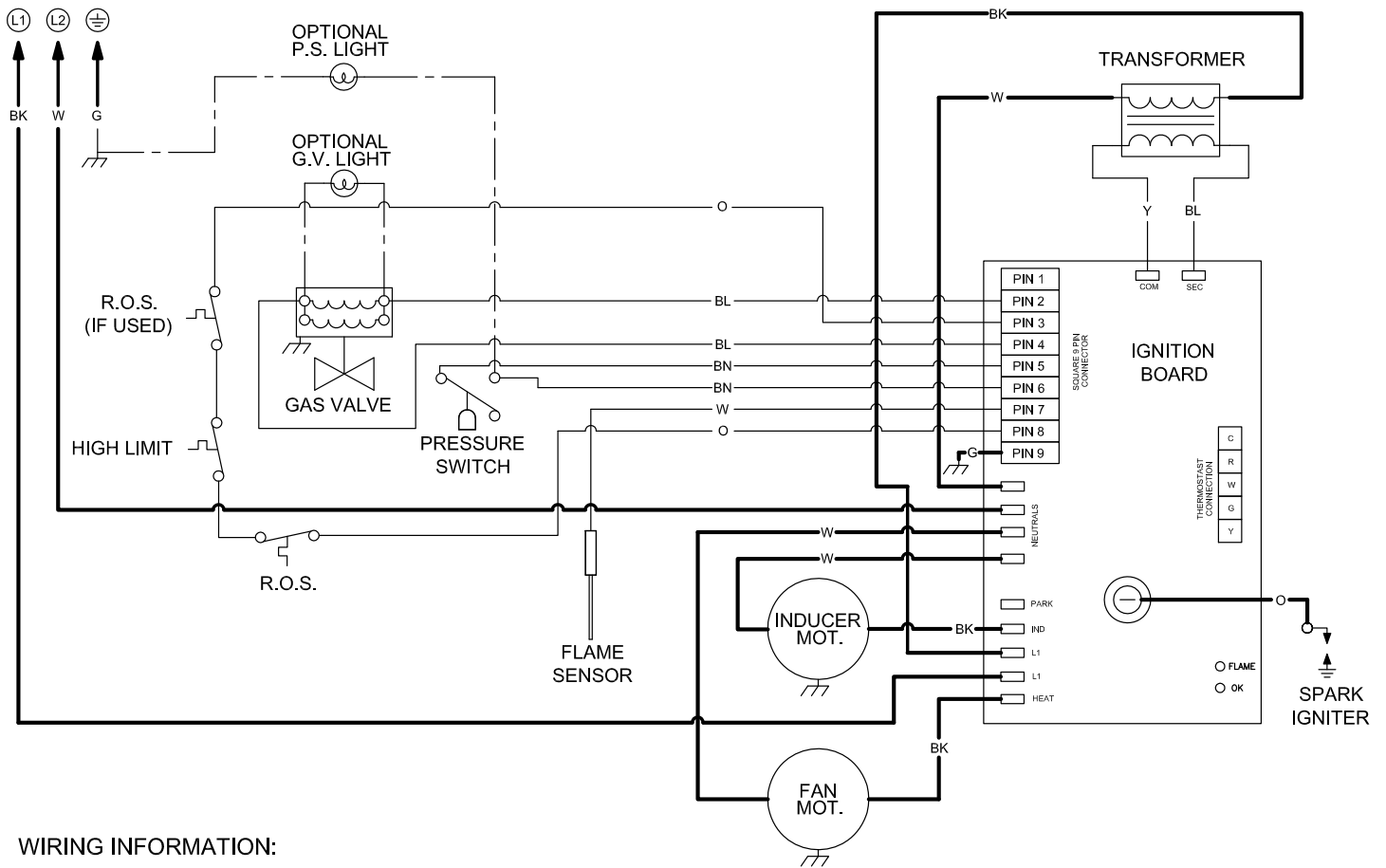


Detroit Radiant Products | Phone: (586) 756-0950
 21400 Hoover Rd. | Email: sales@drp-co.com
 Warren, MI 48089 | www.reverberray.com

RE-VERBER-AIR WIRING SUBMITTAL SHEET

UH-SS/FA-SS SERIES WIRING DIAGRAMS

Internal Wiring



WIRING INFORMATION:

LINE VOLTAGE:

- FACTORY STANDARD _____
- FACTORY OPTION -----
- FIELD INSTALLED - - - - -

LOW VOLTAGE:

- FACTORY STANDARD _____
- FACTORY OPTION -----
- FIELD INSTALLED - - - - -

RE-VERBER-AIR HEATER SUBMITTAL SHEET

UH-SS/FA-SS SERIES TUBE HEATERS

GAS-FIRED, INDUCED DRAFT, HOT AIR UNIT HEATERS

GAS-FIRED UNIT HEATERS: SEPARATED COMBUSTION OR POWER VENTED

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Detroit Radiant Products Company; Re-Verber-Ray UH Series or FA Series.
- B. Fuel Type: Burner shall be designed for [natural][propane] gas having characteristics same as those of gas available at project site.
- C. Unit Casing:
 - 1. Shall be constructed of not less than 20-gauge aluminized steel for standard models and 304 grade stainless steel for -SS models.
 - 2. Shall be furnished with air deflector blades made of 304 series brushed stainless steel.
 - 3. Deflector blades shall be incrementally adjustable without the use of springs to provide for directional airflow (up or down).
- D. Furnace Section:
 - 1. Tubular heat exchanger shall be constructed of a minimum of 18-gauge aluminized steel tubes for standard models and 409 grade stainless steel for -SS models.
 - 2. Thermal efficiency of the heater shall be above 80%.
 - 3. Burners shall be in-shot type, firing directly into each heat exchanger tube individually.
- E. Ignition System: Direct spark igniter with flame rod sensing capabilities.
 - 1. Single stage gas controls.
- F. Burner Safety Controls:
 - 1. Heater controls shall include a safety differential pressure switch to monitor combustion air flow so as to provide complete burner shutdown in the event of insufficient combustion air or flue blockage.
 - 2. Heater shall incorporate a self-diagnostic ignition module, and re-cycle the heater after an inadvertent shutdown.
 - 3. Heater's control system shall be designed to shut off the gas flow to the main burner in the event either a gas supply or power supply interruption occurs.
 - 4. Heater's blower motor shall be thermally protected, and the motor's impeller shall be balanced.
 - 5. Heater control assembly shall include two indicator lights that define the unit's operating features. One indicator shall validate air flow, and the other shall indicate gas valve energization.
 - 6. An automatic reset high limit switch shall be mounted in the air stream to shut off the gas supply in the event of overheating.
 - 7. A time delay relay shall be incorporated that delays the start of the air blower fan to allow the heat exchanger to warm up upon a call for heat. A time delay relay shall be incorporated to continue the air blower fan operation after the thermostat has been satisfied to help remove any residual heat in the exchanger.
 - 8. No condensation shall form in the exchanger tubes while at operating temperatures.
- G. Air Movement:
 - 1. Motor type shall be a single speed, open drip-proof (ODP) type.
 - 2. Motor shall be rated for 115 V/60 Hz/1 ph.
 - 3. Swept wing fan blade designed to optimize air flow and reduce noise levels.
 - 4. Stainless steel, adjustable air discharge louvers with seamless airfoil design to maximize airflow.
- H. Venting: Shall be per manufacturer approval and specifications.
- I. Thermostat: Devices and wiring are specified in Division 23 Section "Instrumentation and Control for HVAC."
 - 1. Thermostat: Digital programmable wall-mounted type.
 - 2. Other approved operating device.
 - 3. Control Transformer: Internally mounted.



Detroit Radiant Products | Phone: (586) 756-0950
21400 Hoover Rd. | Email: sales@drp-co.com
Warren, MI 48089 | www.reverberray.com

LSUHFAf-03/25 (DRPC)