

ALPHA SERIES

The Solaira^o™ Alpha series represents the next evolution of engineered short wave heating technology. Alpha series heaters produce short wavelength infrared heat—86% of consumed energy is transferred into instant, controllable, directional heat. Shortwave infrared heating technology is not affected by wind and warms people and objects—not the air between. The modular design of the alpha series allows specifying engineers to adjust and direct specified heating loads based on area requirements.

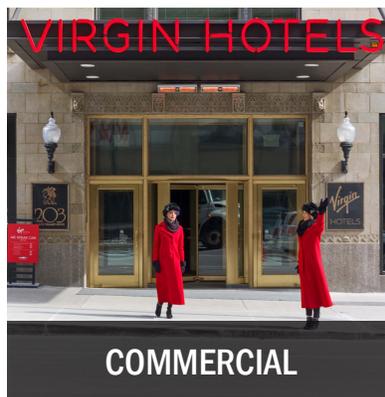


CERTIFIED TO
 UL 2021—Electric Air Heaters
 CSA 22.2 No.46-13—Electric Air Heaters



KEY FEATURES

- Up to 6,000W / 20,500 BTU per unit
- Up to 12,000W / 41,000 BTU in industrial configuration
- Ultra Low Light Infrared emitters and gold polished radiant reflectors
- IP55 Weather protection for fully exposed environments
- Fully adjustable mounting brackets included
- Control systems for all applications—from simple stand-alone wall control to full BMS smart home integration: 0-10v, 4-20mA, BACnet input capability



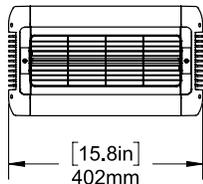
TECHNICAL DATA

CONFIGURATION	MODEL * = COLOR [G = ANTIQUE GREY] [B = SEMIGLOSS BLACK]	WATTS	BTU's	VOLTS	AMPS	INPUT POWER	WEIGHT	REPLACEMENT EMITTER
H1 HEATER Single Emmitter	SALPHA15120* [G]	1500	5115	120	12.5	208-240 VAC 50/60 Hz, 1 Φ	7.5 lbs (3.4kg)	SWIRE15120
	SALPHA15240L1* [G]	1500	5115	240	6.3	208-240 VAC 50/60 Hz, 1 Φ		SWIRE15240-L1
		1125	3836	208	5.4	208-240 VAC 50/60 Hz, 1 Φ		SWIRE20240-L1
	SALPHA20240L1* [G]	2000	6820	240	8.3	208-240 VAC 50/60 Hz, 1 Φ		SWIRE20240-L1
SALPHA20277* [G]	2000	6820	277	7.2	277 VAC 50/60 Hz, 1 Φ		SWIRE20277	
H2 HEATER Double Emmitter	SALPHA2-30240L1* [G / B]	3000	10230	240	12.5	208-240 VAC 50/60 Hz, 1 Φ	12.3 lbs (5.6kg)	SWIRE15240-L1
		2250	7673	208	10.8			SWIRE20240-L1
	SALPHA2-40240L1* [G]	4000	13640	240	16.7	208-240 VAC 50/60 Hz, 1 Φ		SWIRE20240-L1
		3000	10230	208	14.4	277 VAC 50/60 Hz, 1 Φ		SWIRE20277
SALPHA2-40277* [G]	4000	13640	277	14.4	277 VAC 50/60 Hz, 1 Φ		SWIRE15240-L1	
H3 HEATER Triple Emmitter	SALPHA3-45240L1* [G / B]	4500	15345	240	18.8	208-240 VAC 50/60 Hz 1Φ OR 3Φ	17.6 lbs (8.0kg)	SWIRE15240-L1
		3375	11509	208	16.2			SWIRE20240-L1
	SALPHA3-60240L1* [G / B]	6000	20460	240	25.0	208-240 VAC 50/60 Hz 1Φ OR 3Φ		SWIRE20240-L1
		4500	15345	208	21.6	277 VAC 50/60 Hz - 1Φ OR 3Φ		SWIRE20277
SALPHA3-60277* [G]	6000	20460	277	21.7	277 VAC 50/60 Hz - 1Φ OR 3Φ		SWIRE20277	

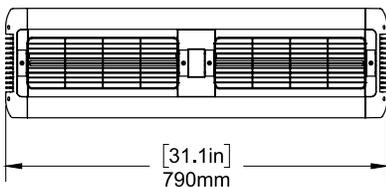
HEATERS RATED FOR 240V ARE APPROVED TO BE USED ON 208V CIRCUITS. HEATER OUTPUT WILL BE REDUCED BY APPROXIMATELY 25%.

HEATER DIMENSIONS

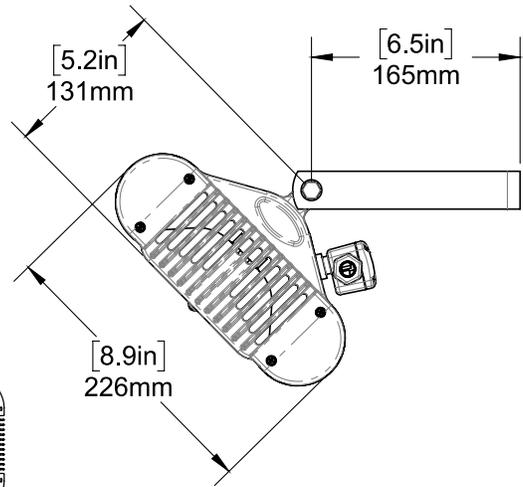
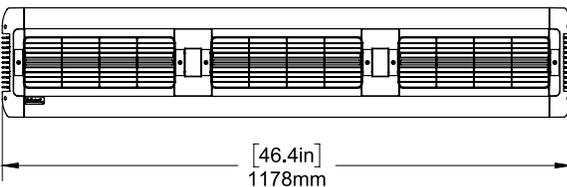
H1 HEATER
Single Emmitter



H2 HEATER
Double Emmitter



H3 HEATER
Triple Emmitter



6.5" WALL BRACKET PAIR INCLUDED. CEILING BRACKETS SOLD SEPARATELY.

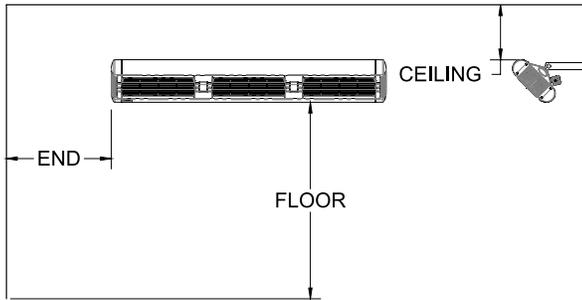
HEATER CONSTRUCTION

HEATER BODY	EMITTER	REFLECTOR	EMITTER GUARD	INGRESS PROTECTION	POWER SUPPLY
Aircraft Grade extruded aluminum	Solaira® Candel ultra low light emitter	Gold Anodized mirror polished aluminum	Nickel dipped Carbon Steel wire cage	IP-55 resistance for low pressure water jets	6'7 (2.0m) high temperature silicone leads

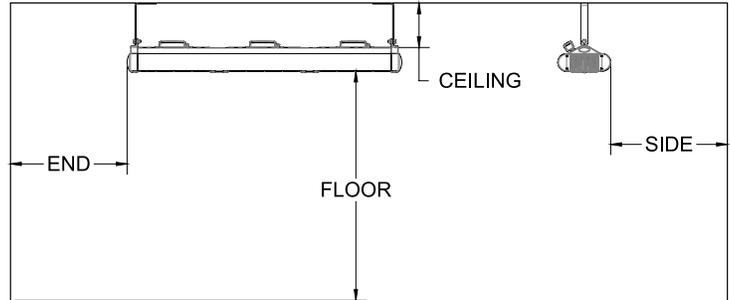
MINIMUM HEATER CLEARANCES

MINIMUM CLEARANCES TO ADJACENT SURFACES						
CONFIGURATION	MODEL	FLOOR	CEILING	ENDS	SIDES	MOUNTING OPTION
H1 HEATER	SALPHA15120	6'7" (2.0m)	11.75" (300mm)	39" (1m)	39" (1m)	WALL CEILING
	SALPHA15240	8' (2.4m)	11.75" (300mm)	39" (1m)	39" (1m)	
	SALPHA20240	8' (2.4m)	19.5" (500mm)	39" (1m)	39" (1m)	
	SALPHA20277	8' (2.4m)	7.5" (190mm)	30" (0.8m)	30" (0.8m)	
H2 HEATER	SALPHA2-30240	8' (2.4m)	19.5" (500mm)	39" (1m)	39" (1m)	
	SALPHA2-40240	8' (2.4m)	19.5" (500mm)	39" (1m)	39" (1m)	
	SALPHA2-40277	8' (2.4m)	7.5" (190mm)	39" (1m)	39" (1m)	
H3 HEATER	SALPHA3-45240	9' (2.7m)	19.5" (500mm)	39" (1m)	39" (1m)	
	SALPHA3-60240	10' (3.1m)	19.5" (500mm)	59" (1.5m)	59" (1.5m)	
	SALPHA3-60277	8' (2.4m)	7.5" (190mm)	39" (1m)	39" (1m)	

WALL MOUNT



CEILING MOUNT



HEATER COVERAGE PATTERNS

H1 HEATER - Single Emmitter Coverage

MODEL	MOUNTED AT	WIDTH	DEPTH	AVERAGE HEAT DENSITY
SALPHA (15120 / 15240)	6'7" (2.0m)	10' (3.1m)	4' (1.2m)	28 W/ft ²
SALPHA (20240 / 20277)	6'7" (2.0m)	11.5' (3.5m)	4.5' (1.4m)	30 W/ft ²

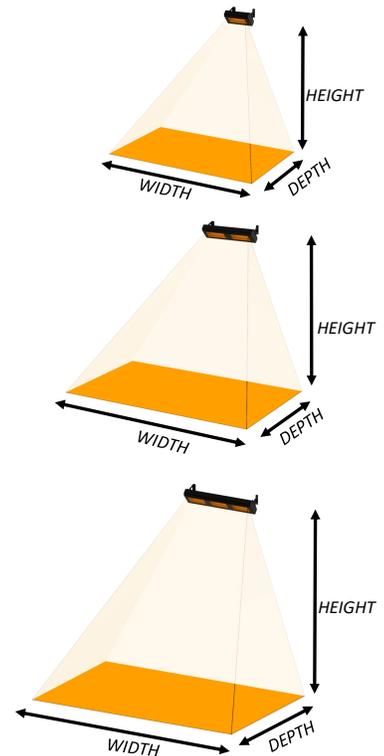
NOTE: Heat density reduced by 25% when 240V heaters are used on 208V

H2 HEATER - Double Emmitter Coverage

MODEL	MOUNTED AT	WIDTH	DEPTH	AVERAGE HEAT DENSITY
SALPHA2-30240	8' (2.4m)	14.5' (4.4m)	5.5' (1.7m)	26 W/ft ²
	10' (3.1m)	15.5' (4.7m)	6.5' (2.0m)	19 W/ft ²
SALPHA2-(40240 / 40277)	8' (2.4m)	16' (4.9m)	6.5' (2.0m)	29 W/ft ²
	10' (3.1m)	17.5' (5.3 m)	7' (2.1m)	22 W/ft ²

H3 HEATER - Triple Emmitter Coverage

MODEL	MOUNTED AT	WIDTH	DEPTH	AVERAGE HEAT DENSITY
SALPHA3-45240	9' (2.7m)	18' (5.5 m)	6.5' (2.0m)	29 W/ft ²
	11' (3.4m)	19' (5.8 m)	7.5' (2.3m)	21 W/ft ²
SALPHA3-(60240 / 60277)	10' (3.1m)	21' (6.4m)	8' (2.4m)	27 W/ft ²
	12' (3.6m)	21.5' (6.6m)	8.5' (2.6m)	22 W/ft ²



FOR MOUNTING HEIGHTS 12' OR LESS, WALL AND CEILING MOUNT COVERAGE PATTERNS ARE SIMILAR

DATA-DRIVEN HEATER LAYOUTS

Solaira's HEATSPEC tool delivers elevated heater coverage visualizations. Requesting a HEATSPEC layout removes the guesswork of heater placement and allows you to define and specify heatrise for a target area. Request a HEATSPEC Layout from your sales rep.

HEAT SPEC AVAILABLE



ALPHA SERIES

CONTROLS

ON / OFF CONTROL

SMART Timer Controller
 SMRTTIM40—16.6A
 SMRTTIM60—25A



SMART Occupancy Controller
 SMRTOCC40—16.6 A
 SMRTOCC60—25 A



VARIABLE OUTPUT CONTROL

SMART Series Controller

SMART16-DV—16.6A
 SMART34-DV—34A



FEATURES

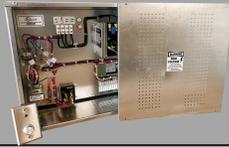
- Variable output
- Dual Voltage
- IP 65 ingress protection
- Onboard temperature monitor (SMaRT 34 only)
- cETL SPE 1000 Canada Inspected

SMaRT Accessories

Part Number	Description
SM-WSD	Wall Switch
SMRTVRMT	Handheld IR Remote Control
SMRTVTEM-R	Remote Temperature Monitor
SMRTVOCC	Occupancy sensor

OMNIS Series Controller

PASCR30-1-DIN—30A
 PASCR90-1-DIN—90A
 PASCR165-1-DIN—165A



FEATURES

- Single Zone, Single phase, sized by Amperage
- BMS, BACnet Ready 0-10DCv/4-20mA Input
- Lutron, Crestron, Control 4 ready
- Included Potentiometer for 100% controllability
- Breaker sub-panel by others as required
- UL 508 / CSA 22.2-286 Approved

OMNIS Accessories

Part number	Description
PSST-MAXTIM	Multi-Functional Input Timer
PSW-2BW	2 button Decora switch*
PSW-OS	Occupancy Sensor*
PSW-THERMV3	Adjustable Thermostat

*requires PSST-MAXTIM

OMNIS Custom Controller

Unlimited—CONTACT SALES REP



FEATURES

- Single zone or multi zone
- Single phase or 3 phase systems
- Individually fused inputs and outputs
- BMS, BACnet Ready 0-10DCv/4-20mA Input
- Lutron, Crestron, Control 4 ready
- Custom load management, input and outputs
- UL 508 / CSA 22.2-286 Approved

OMNIS Accessories

Part number	Description
PSST-MAXTIM	Multi-Functional Input Timer
PSW-2BW	2 button Decora switch*
PSW-OS	Occupancy Sensor*
PSW-THERMV3	Adjustable Thermostat

*requires PSST-MAXTIM

ACCESSORIES

* REPRESENTS HEATER COLOR
 [G = ANTIQUE GREY]
 [B = SEMIGLOSS BLACK]



ALPHA 12" CEILING BRACKET
 SALPHABRCT12* [G / B]



ALPHA EXTENSION BRACKETS
 SALPHABRCTEXT24* [G / B]



CENTER MOUNT BRACKET
 SALPMH2* [G / B]



SOLAIRA ARCHITECTURAL POST
 SP100-* [G / B]
 SP80-* [G / B]
 *REQUIRES CENTER MOUNT BRACKET
 *MINIMUM ORDER QTY APPLIES

CERTIFICATION



CERTIFIED TO
UL 2021—Electric Air Heaters
CSA 22.2 No.46-13—Electric Air Heaters

DUE TO OUR POLICY OF ONGOING IMPROVEMENT, WE RESERVE THE RIGHT TO MAKE CHANGES TO SPECIFICATIONS WITHOUT NOTICE.

WARRANTY

FIXTURE: 3 years - workmanship and materials

EMITTER BULB: 1 year—workmanship and materials