



**Solaira<sup>®</sup>**  
The Architect and Engineers Choice

**RADIANT HEATER**  
T E C H N O L O G Y

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The Architect and Engineers Choice

**RADIANT HEATER**  
T E C H N O L O G Y

C O M M E R C I A L   H O S P I T A L I T Y   •   I N D U S T R I A L   •   R E S I D E N T I A L



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Alpha Series H3  
Telluride Ski Resort

# ABOUT US

The sun is the ultimate source of energy, for our plants to grow, for our light by day and to heat to our planet. A beam of sunlight contains a broad spectrum of energy and has long been a topic of research. This scientific research led to the discovery of a wavelength of energy that was close to the visible light spectrum, but different in that it provided invisible warmth to whatever it touched. These wavelengths became known as the infrared spectrum and scientists found that shorter wavelengths within the infrared spectrum provided extremely efficient radiant heating capabilities. While the science has been understood for some time, commercialization of the technology took much longer.

Solaira™ was established in 2004 with the vision to utilize the latest high performance radiant technology in engineered heating and control solutions. Our technologies are centered on providing comfort through high efficiency, top performance and premium quality products. Our technologies are utilized around the world and in the most severe environments as required by our military, commercial, industrial and residential customers. Our designs are built on performance, yet designed with the architect and engineer in mind for the most discerning commercial hospitality, residential or industrial applications.

**DRIVEN BY ENGINEERING, DESIGN AND PERFORMANCE.**



# WHY SOLAIRA?

Solaira S-Wave Candel high intensity, ultra low light infrared heat, like sunshine, gives warmth you can feel the instant the heaters are switched on. Consider a cool, cloudy day that becomes instantly warm when the clouds move, and you are in full sunshine. The air temperature does not change, but what you are feeling is the shortwave infrared rays produced by the sun - as engineered in our Solaira Heaters. Solaira S-Wave technology outperforms medium and long wave radiant technologies in outdoor or breezy environments, as up to 85% of the consumed energy is converted into directional radiant heat compared with 40% to 60% by medium and long wavelength products.

## So why does this matter?

- Solaira S-Wave delivers greater radiant efficiency (more radiant heat per consumed watt of power) meaning less power required than comparable medium and long wave products
- Directional and virtually unaffected by wind
- Instant on and no warm up time
- Infinitely dimmable and can be controlled

Solaira utilizes an engineered parabolic, highly polished aluminum reflector to transfer the radiant energy to the target surface. The extruded aircraft aluminum appliance has a corrosion resistant epoxy powder coated finish and assembly hardware are stainless steel for infrastructure grade commercial fixtures. Solaira heaters are rated to IP55 for fully wet exposed environments and can operate in temperatures to – 31°F.



ICR Series H3 Candel Recess  
Restaurant, Santa Monica



## HOSPITALITY

Restaurants  
Bar Cafe & Night Club  
Beer Garden  
Quick Service Drive Through  
Hotels  
Porte-Cochere  
Roof Top Patio  
Ski Resorts  
Country Clubs

## SPORT VENUE

Hockey Rinks  
Outdoor Ticket Booth Heating  
Stadium Heating  
Auditorium / Gym  
Golf Driving Range

Alpha Series H2  
Orlando Amusement Park, Patio Heater



Alpha H3  
Mountain Top Patio, Telluride Ski Resort



Solaira Cosy  
RD Kitchen, Newport, California



Alpha H2  
The Breakers, Palm Beach, Florida

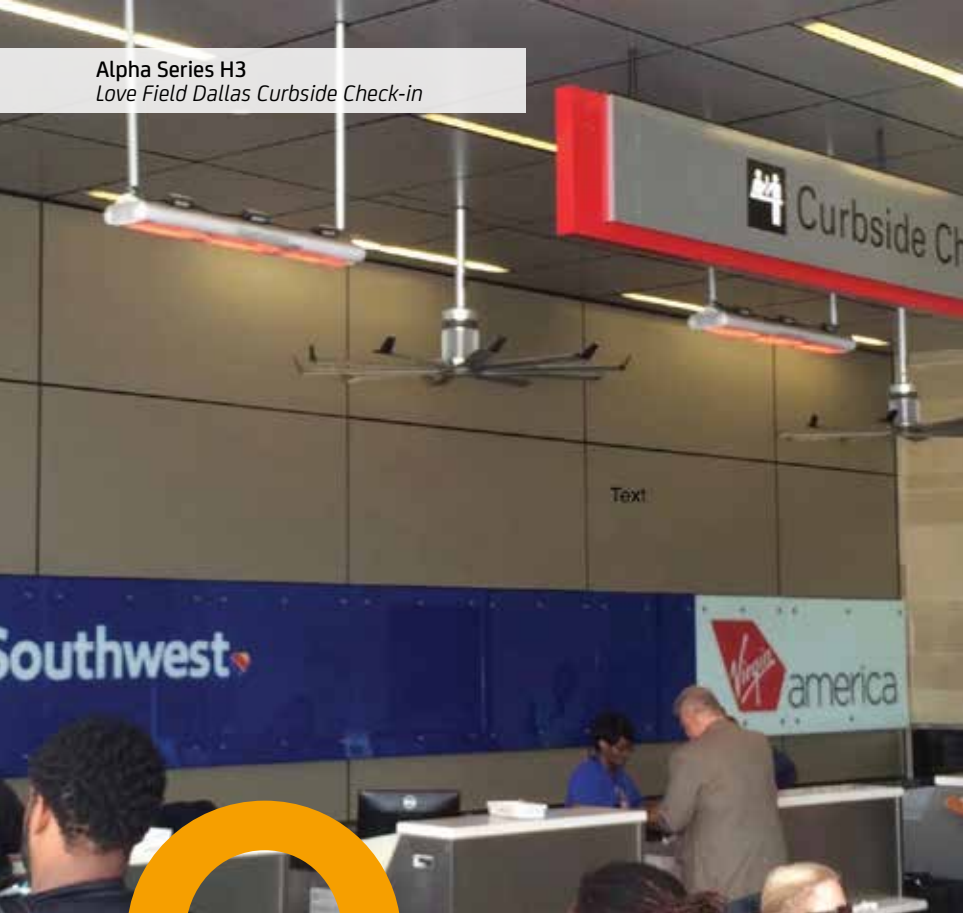


# COMMERCIAL HOSPITALITY

Within the commercial hospitality sector, the primary focus is customer comfort. Keeping the customer warm and happy is key to increasing revenue in your outdoor space when the temperatures drop. Common problems that the hospitality industry face is large, bulky, hard to light propane heaters that take up floor space in prime seating areas. Natural gas systems are also cumbersome, require special venting and can be noisy during operation.

Solaira has been supplying high quality architectural radiant heaters within the hospitality sector since 2004, and have listened to restaurateurs' needs and taken them in mind when designing our quartz infrared heaters. Solaira's range of innovative products are available in any colour and in various form factors, so as to fit in effortlessly within the properties environment. Solaira also offers a comprehensive range of energy saving controllers, which allow the infrared heaters to be adjusted to appropriate levels.





Alpha Series H3  
Love Field Dallas Curbside Check-in



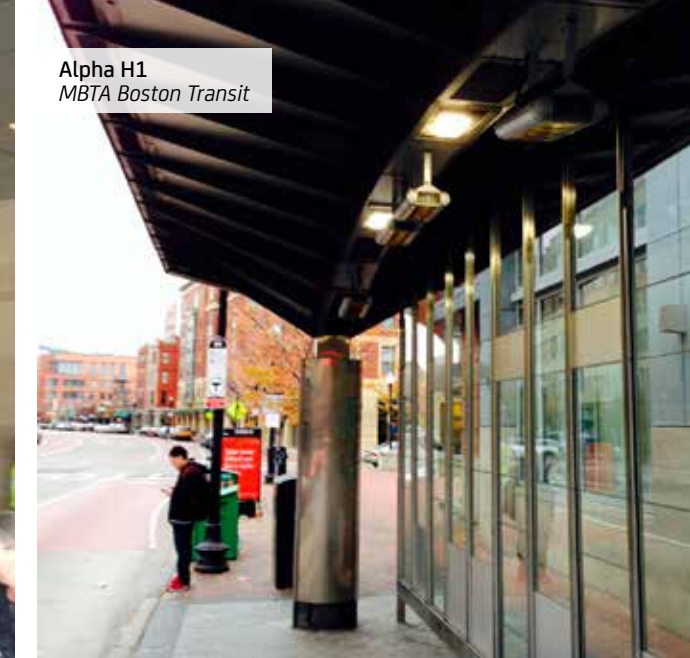
Alpha Series H3  
Warehouse Zone Heater



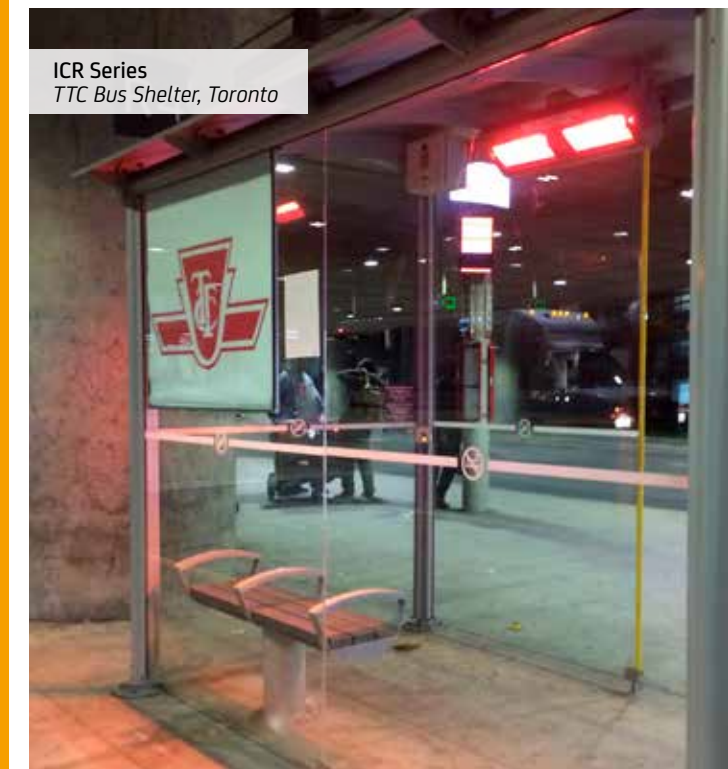
Alpha Series H1  
Hot Yoga Studio



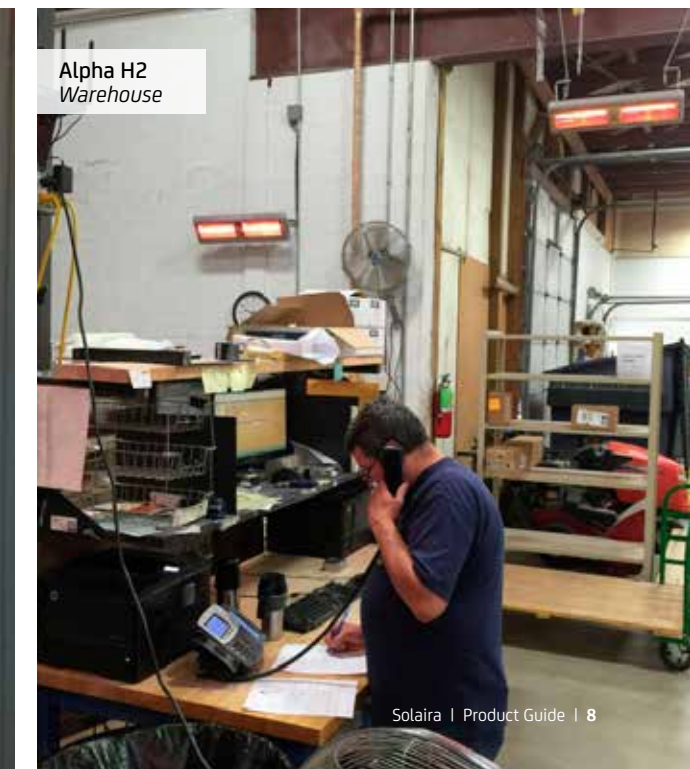
Alpha Series H3  
Love Field Curbside Check-In, Dallas



Alpha H1  
MBTA Boston Transit



ICR Series  
TTC Bus Shelter, Toronto



Alpha H2  
Warehouse

# COMMERCIAL INDUSTRIAL

Solaira's quartz S-wave infrared heaters are engineered to provide heating solutions in commercial and industrial environments. Solaira infrared S-wave heating is an energy efficient way of providing warehouses, production lines, shipping/receiving zones, access doors, waiting areas, and other hard to heat areas within buildings with warmth. Solaira's powerful industrial infrared heaters are robust infrastructure grade, and perfect for demanding heating applications.

All of our industrial infrared heaters work instantly and can be controlled with a variety of timer, occupancy, BMS and variable controls, meaning no energy is wasted for pre-heating or when not required. We are dedicated to providing minimal maintenance quartz radiant heaters that provide optimum performance and unrivalled reliability over long periods of time.

## INDUSTRIAL

Aircraft Hangars  
Warehouses  
Industrial Work Station Heating  
Commercial Umbrella Heating

## TRANSPORTATION

Airport  
Transit / Bus Shelter  
Commercial Retail

## INSTITUTIONAL

Hospitals  
Worship / Church Facilities

## SPORT VENUE

Fitness / Yoga  
Red Carpets  
Zoo Heating  
Recess Heating  
Gazebo Heating  
Outdoor Reception





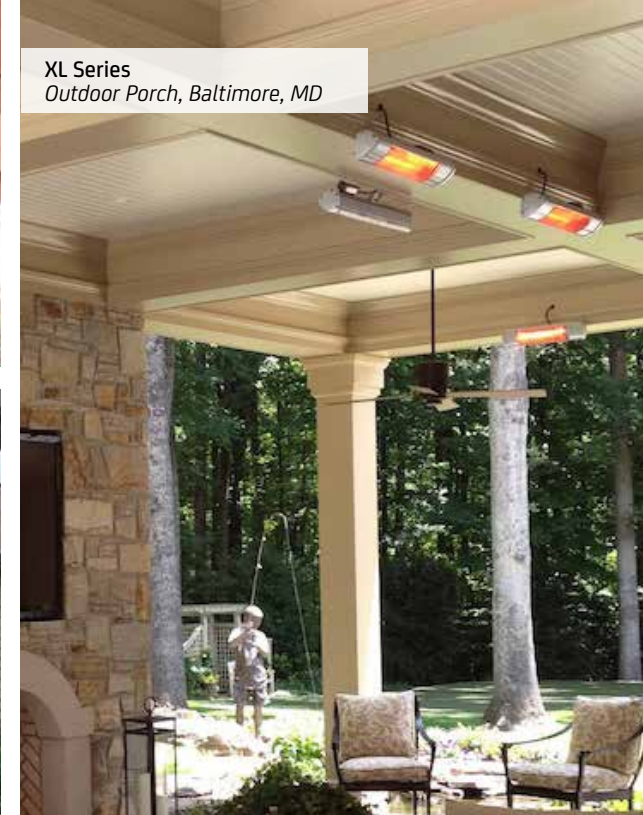
Alpha H2  
Outdoor Room Patio Heater

## RESIDENTIAL

Outdoor Room Heating  
Outdoor Kitchen Heating  
Landscape Design  
Patio



XL Series  
Beamed Pergola, Muskoka, ON



XL Series  
Outdoor Porch, Baltimore, MD



ICR Series H3 Recessed  
Residential



Alpha Series H1  
Pergola - Michigan

## RESIDENTIAL

The outdoor room has become the latest addition to homes around the world and Solaira offers various solutions for outdoor room heating when you want to get more comfortable in your outdoor area. Architects and designers can choose from a fully integrated (recessed) design to ceiling suspended or wall mount to suit the space and seating arrangements.



Solaira Candel™ Series Heaters utilize quartz emitter lamp filtering to reduce visible light by nearly 50%, while maintaining most of the radiant infrared heat. Solaira Candel series heaters are ideal for commercial and outdoor residential areas where low ambient light is preferred.





Alpha Series H2  
Renaissance Hotel, Toronto, ON

# ALPHA SERIES

Alpha Series is a powerful, versatile heating system, engineered for commercial, industrial and residential applications.

The SOLAIRA ALPHA SERIES electric infrared heaters represent the evolution of engineered short wave heating technology. Alpha Series Heaters produce short wave length infrared that convert 85% of consumed energy to instant, controllable, directional heat. This heating technology is not affected by wind or draft as it warms people, objects and things and not the air.

The modular design of the Solaira Alpha Series allows specifying engineers to adjust and direct specified heating loads based on area requirements. The Alpha Series' modern, sleek design allows architects to integrate heating technology with clean un-intrusive lines. Alpha Series Heaters are engineered to meet IP55 standard for water spray so they can be installed in both wet (outdoor) or dry conditions (indoor or outdoor).



Alpha H1  
up to 2000W



Alpha H2  
up to 4000W



Alpha H3  
up to 6000W

- Powder coated aircraft aluminum body and mounting brackets, stainless steel mounting hardware
- IP 55 rated for outdoor/indoor wet exposed environments
- Modular design for engineered heat load requirement
- Engineered for both wall and overhead mounting



WATERPROOF



Certified to UL2021 and CSA 22.2



Alpha Series H1  
Paris Hotel Valet, Las Vegas



Alpha Series H2  
Rooftop Patio



Alpha Series H3  
The Mirage, Las Vegas

Model	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Heater Dimensions	Weight (Pounds/kg.)
<b>SALPHA15120G</b> (Grey, RAL9006) (Hardwire/No Plug)	1500	120	12.5	16" X 6" X 9" (41 X 15 X 23 CM)	7.5lbs (3.4kg)
<b>SALPHA15240L1G</b> (Grey, RAL9006)	1500/1125	240/208	6.3/5.4	16" X 6" X 9" (41 X 15 X 23 CM)	7.5lbs (3.4kg)
<b>SALPHA20240L1G</b> (Grey, RAL9006)	2000/1500	240/208	8.3/7.2	16" X 6" X 9" (41 X 15 X 23 CM)	7.5lbs (3.4kg)
<b>SALPHAH2-30240L1G</b> (Grey, RAL9006)	3000/2250	240/208	12.5/10.8	32" X 6" X 9" (81 X 15 X 23 CM)	12.3lbs (5.6kg)
<b>SALPHAH2-30240L1B</b> (Black, RAL9005)	3000/2250	240/208	12.5/10.8	32" X 6" X 9" (81 X 15 X 23 CM)	12.3lbs (5.6kg)
<b>SALPHAH2-40240L1G</b> (Grey, RAL9006)	4000/3000	240/208	16.7/14.4	32" X 6" X 9" (81 X 15 X 23 CM)	12.3lbs (5.6kg)
<b>SALPHAH3-60240L1G</b> (Grey, RAL9006)	6000/4500	240/208	25.0/21.6	48" X 6" X 9" (122 X 15 X 23 CM)	17.6lbs (8.0kg)
<b>SALPHAH3-60240L1B</b> (Black, RAL9005)	6000/4500	240/208	25.0/21.6	48" X 6" X 9" (122 X 15 X 23 CM)	17.6lbs (8.0kg)
<b>SALPHAH3-20277L1G</b> (Grey, RAL9006)	2000	277	7.2	16" X 6" X 9" (41 X 15 X 23 CM)	7.5lbs (3.4kg)
<b>SALPHAH3-40277L1G</b> (Grey, RAL9006)	4000	277	14.4	32" X 6" X 9" (81 X 15 X 23 CM)	12.3lbs (5.6kg)
<b>SALPHAH3-60277L1G</b> (Grey, RAL9006)	6000	277	21.7	48" X 6" X 9" (122 X 15 X 23 CM)	17.6lbs (8.0kg)

May require additional bracket or chain. Check manual for details, specifications subject to change without notice.

## OPTIONS:



WALL MOUNT



CEILING SUSPENDED



CUSTOM RAL COLORS



LOW LIGHT EMITTER





ICR Series H3 (Recessed)  
The Ritz Carleton, Toronto

# ICR SERIES

HIGH OUTPUT COMMERCIAL, INDUSTRIAL AND OUTDOOR RESIDENTIAL RADIANT PATIO HEATER.

Solaira’s NEW ICR Series high performance, high output engineered short wave heating technology converts more than 85% of consumed energy into instant, controllable, directional heat. Radiant efficiency is maximized because heat generated by SOLAIRA heaters warms people and objects, with limited warming of the air and is virtually unaffected by air current or breezes.

### Also available with Recess Kit

- Allows Solaira ICR Series heaters to be recessed directly into a ceiling structure.
- Reduces ceiling clearance to zero, minimizing ceiling clutter for a clean, streamlined look.
- IP 55 rated for outdoor /indoor wet exposed environments.



ICR H1  
up to 2000W

ICR H2  
up to 4000W

ICR H3  
up to 6000W



ICR Series H3  
Stadium Heating

Model	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Heater Dimensions	Weight (Pounds/kg.)
SICR20240L1B (Black, RAL9005)	2000/1500	240/208	8.3/7.2	16.6" X 6" X 10" (42 X 15 X 25.4 CM)	7.5lbs (3.4kg)
SICR30240L1-B or W (Black RAL9005, White RAL9010)	3000/1500	240/208	12.5/10.8	33.8" X 6" X 10" (86 X 15 X 25.4 CM)	13lbs (6.0kg)
SICR40240B (Black, RAL9005)	4000/3000	240/208	16.7/14.4	33.8" X 6" X 10" (86 X 15 X 25.4 CM)	13lbs (6.0kg)
SICR450240-B or W (Black RAL9005, White RAL9010)	4500/3375	240/208	18.8/16.2	50.5" X 6" X 10" (129 X 15 X 25.4 CM)	17.6lbs (8.0kg)
SICR60240B1-B or W (Black RAL9005, White RAL9010)	6000/4500	240/208	25./21.6	50.5" X 6" X 10" (129 X 15 X 25.4 CM)	17.6lbs (8.0kg)
SICR-H1-TRMB* for recess application (Black RAL9005)	N/A	N/A	N/A	SEE ABOVE	N/A
SICR-H2-TRMB* for recess application (Black RAL9005)	N/A	N/A	N/A	SEE ABOVE	N/A
SICR-H3-TRMB* for recess application (Black RAL9005)	N/A	N/A	N/A	SEE ABOVE	N/A

Specifications subject to change without notice.

### OPTIONS:



WALL MOUNT



CEILING SUSPENDED



INTEGRATED (RECESSED)



CUSTOM RAL COLORS



LOW LIGHT EMITTER

### Low Ceiling Clearance

Solaira ICR SERIES allows specifying engineers to adjust specified heating loads based on area requirements. ICR SERIES heaters have low ceiling clearance requirements (as little as 4.5" clearance with included mounting bracket directly to ceiling and 6" when mounted on wall)

### Recess Option With Kit

Solaira ICR SERIES allows specifying engineers and architects to recess patio heater for commercial and outdoor residential ceiling structures\*. The certified installation reduces ceiling clearance to zero, minimizing ceiling clutter for a clean, streamlined look.

\*Recessed Solaira ICR Series heaters require recess kit (sold separately) and 1 hr fire rated installation enclosure supplied by contractor as per approved manual guidelines.



ICR H3 with Recess Kit





XL Series  
Tony, St. Louis



# XL SERIES

HIGH EFFICIENCY ARCHITECTURAL INFRARED HEATER

Solaira XL Series Heaters are engineered as a high output, high efficiency architectural infrared heater. The extruded design and large parabolic reflector provides an attractive, high performance, weatherproof heat source. This series is engineered for both mid and low-clearance installation and are especially well suited for design influenced environments requiring high output. Solaira XL heaters are ideal for commercial and residential areas such as open-air terraces, restaurant hostess and waiting areas, clubs or pubs.

XL H2 - Stainless Steel

- IP 55 rated for outdoor/indoor wet exposed environments
- Safe / Maintenance Free / Odorless
- Scratch resistant epoxy powder coat finish
- Extruded 6061 aircraft aluminum fixture
- Available in 1.5kW, 120V, 1.5 and 2.0kW, 240V
- Available in Black or White



XL H1 - White  
up to 2000W



XL H1 - Stainless  
up to 2000W



XL H1 - Black  
up to 4000W

Model	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Heater Dimensions	Weight (Pounds/ kg.)
SCOSYXL15120B (Black, RAL9005) (Hardwire/No Plug)	1500	120	12.5	22" X 4.5" X 3.5" (56 X 11 X 9 CM)	6.2lbs (2.8kg)
SCOSYXL15120W (White, RAL9010) (Hardwire/No Plug)	1500	120	12.5	22" X 4.5" X 3.5" (56 X 11 X 9 CM)	6.2lbs (2.8kg)
SCOSYXL15240B (Black, RAL9005)	1500/1125	240/208	6.3/5.4	22" X 4.5" X 3.5" (56 X 11 X 9 CM)	6.2lbs (2.8kg)
SCOSYXL15240W (White, RAL9010)	1500/1125	240/208	6.3/5.4	22" X 4.5" X 3.5" (56 X 11 X 9 CM)	6.2lbs (2.8kg)
SCOSYXL20240B (Black, RAL9005)	2000/1500	240/208	8.3/7.2	22" X 4.5" X 3.5" (56 X 11 X 9 CM)	6.2lbs (2.8kg)
SCOSYXL20240W (White, RAL9010)	2000/1500	240/208	8.3/7.2	50" X 4.5" X 3.5" (127 X 11 X 9 CM)	13.2lbs (6.0kg)
SCOSYXLH2-30240-L1B (Black, RAL9005)	3000/2250	240/208	12.5/10.8	50" X 4.5" X 3.5" (127 X 11 X 9 CM)	13.2lbs (6.0kg)
SCOSYXLH2-40240-L1B (Black, RAL9005)	4000/3000	240/208	16.6/14.4	50" X 4.5" X 3.5" (127 X 11 X 9 CM)	13.2lbs (6.0kg)
SCOSYXL20240L1SS (Stainless Steel)	2000/1500	240/208	8.3/7.2	22" X 4.5" X 3.5" (56 X 11 X 9 CM)	6.2lbs (2.8kg)
SCOSYXLH2-30240L1SS (Stainless Steel)	3000/2250	240/208	12.5/10.8	50" X 4.5" X 3.5" (127 X 11 X 9 CM)	13.2lbs (6.0kg)
SCOSYXLH2-40240L1SS (Stainless Steel)	4000/3000	240/208	16.6/14.4	50" X 4.5" X 3.5" (127 X 11 X 9 CM)	13.2lbs (6.0kg)

Specifications subject to change without notice.

OPTIONS:



WALL MOUNT



LOW LIGHT EMITTER



CUSTOM RAL COLORS



CEILING SUSPENDED

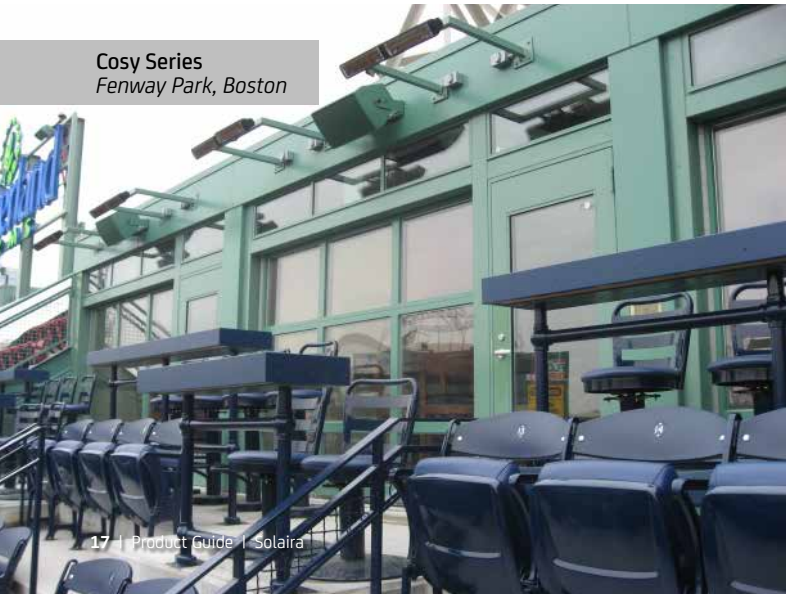


XL Series  
Ill Forks, Chicago





Cosy Series  
The Keg, Toronto



Cosy Series  
Fenway Park, Boston

# COSY SERIES

Ideal for outdoor commercial and residential areas such as open air terraces in restaurants, clubs, pubs and boat decks, under awnings and gazebos. Solaira Cosy is engineered for lower clearance seating areas including condominium terraces and under commercial umbrellas.



Model	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Heater Dimensions	Weight (Pounds/kg.)
SCOSYAW15120B (Black, RAL9005)	1500	120	12.5	16" X 4" X 4" (41 X 11 X 11 cm)	5.1lbs (2.3kg)
SCOSYAW15120W (White, RAL9010)	1500	120	12.5	16" X 4" X 4" (41 X 11 X 11 cm)	5.1lbs (2.3kg)
SCOSYAW15240B (Black, RAL9005)	1500/1125	240/208	6.3/5.4	16" X 4" X 4" (41 X 11 X 11 cm)	5.1lbs (2.3kg)
SCOSYAW15240W (White, RAL9010)	1500/1125	240/208	6.3/5.5	16" X 4" X 4" (41 X 11 X 11 cm)	5.1lbs (2.3kg)

Specifications subject to change without notice.

OPTIONS:



WALL MOUNT



LOW LIGHT EMITTER



WATERPROOF



Certified to UL2021 and CSA 22.2

- Sleek epoxy powder coated aircraft aluminum extruded fixture
- IP 55 rated for outdoor/indoor wet exposed environments
- Odorless output
- Scratch resistant, hard wearing powder coated extruded aluminum
- Bracket allows vertical & horizontal adjustment
- Plug in with 15ft of cable, also available in 240V (or can be hard wired)
- 120 Volt: Power Cord Length: 15 ft. plug included (direct wired heater) Terminal box included
- 240 Volt: Power Cord Length: 6 ft. plug NOT included (direct wired heater) Terminal box included
- Available in Black or White



Solaira ZIRO  
Enclosed Restaurant Patio

# ZIRO



ZIRO series heaters are engineered for enclosed or semi-enclosed residential and commercial applications. The Solaira ZIRO range of ceramic infrared heaters give off virtually no visible light. Solaira ZIRO far-infrared ceramic technology utilizes one of the most energy-efficient forms of infrared heating on the market. This technology utilizes one of the highest ceramic emitter surface temperatures making it one of the highest radiant output heaters in its class. Reliable, efficient and effective.

Model	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Heater Dimensions	Weight (Pounds/kg.)
Z12240B (Black, RAL9005)	1200/900	240/208	5.0/4.3	37" X 5" X 5" (94 X 13 X 13 cm)	10.4lbs (5.2kg)
Z18240B (Black, RAL9005)	1800/1350	240/208	7.5/6.5	51" X 5" X 5" (130 X 13 X 13 cm)	14.2lbs (7.1kg)
Z24240B (Black, RAL9005)	2400/1800	240/208	10.0/8.7	66" X 5" X 5" (166 X 13 X 13 cm)	19.6lbs (8.9kg)

Specifications subject to change without notice.

OPTIONS:



WALL MOUNT



CEILING SUSPENDED

- Ideal for areas requiring radiant heat with no visible light
- Commercial grade
- Powder coated aluminum body and mounting brackets, stainless accessories
- Not recommended for outdoor breezy environments



Certified to UL2021 and CSA 22.2

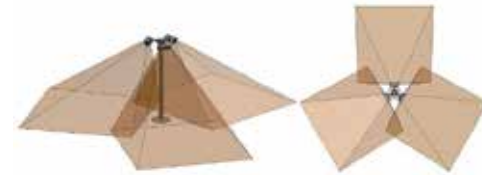




# MALIBU SERIES

## FIXED LOCATION, FIXTURE MOUNTED HEATERS

Ideal for restaurants, valet, restaurant patio, driving ranges, security gate houses, area seating, community centers, place of worship, zoos and outdoor entertainment complexes.



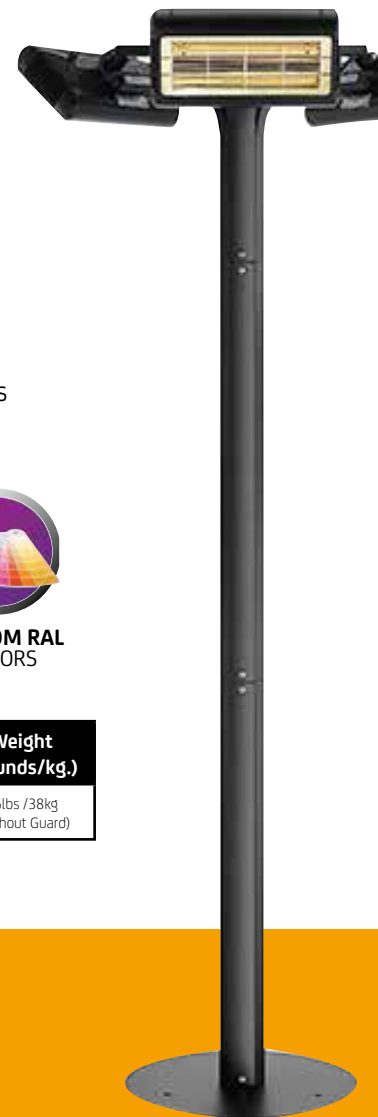
Model	Total Power (kW)	Voltage (Volts)	Lamps x Power (kW)	Body Dimensions	Weight (Pounds/kg.)
MAL 60240B (Black, RAL9005)	4.5/6.0kW	208/240	3 x 2.0kw	40.2"/1020 x 98"/2500 x 35"/890	85lbs /38kg (Without Guard)

Specifications subject to change without notice.

- Commercial design and performance
- Heavy duty epoxy powder coated aluminum structure
- Fixed location
- 360° direction, Heats up to 300 sq. ft (29 sq. m)
- Simple contractor assembly
- Ideal for open terraces, patios, etc.
- IP 55 rated for outdoor/indoor wet exposed environments



WATERPROOF



Alpha Series H2  
Hyatt Place, Chicago



Alpha Series H2  
Time Square Rooftop Lounge, New York



Alpha Series H2  
Bryant Park, New York



# POSTS

Adding comfort heat to open patio spaces and roof top decks can be difficult if there are limited structural mounting locations. Solaira offers a wide variety of custom fixed location posts, mounts and accessories to support Solaira radiant heaters. Custom posts are available in a number of stock colours but can be custom ordered to RAL standards to match heaters and area décor requirements. If you have an area that is difficult to heat or suspend heaters, send in an image or area drawing and one of our specifying dealers can follow up with you on options.

- Architectural design, reinforced mounting base
- Extruded aircraft aluminum posts
- Epoxy powder coated
- Standard length and optional additional height to suit

Alpha Series H3  
The Mirage, Las Vegas







# CANDEL™ SERIES

ULTRA LOW LIGHT EMITTER RADIANT HEAT TECHNOLOGY FOR COZY ENVIRONMENT

Solaira Candel™ Series Heaters utilize quartz emitter lamp filtering to reduce visible light by nearly 50%, while maintaining most of the radiant infrared heat. Solaira Candel series heaters are ideal for commercial and outdoor residential areas where low ambient light is preferred. Consider Solaira Candel™ for restaurants, bars, cafés and outdoor residential patios. The Solaira Candel™ series heaters are available in ICR series form factors for integrated (recessed), ceiling suspended and wall mount or Alpha Series form factor for Wall and ceiling suspended mount, and XL Series for Wall mount. **The Candel Series offers a sleek ultra low light technology meant for architectural focused projects.** Solaira Candel Emitters are now included in ALL 240V Heaters.



**DESIGN PLANNER** Engineered by application, select the mounting option that suits your need:

**Ceiling Suspended**



**Ceiling Recessed**



**Wall Mounted**





# TAKE TOTAL CONTROL OF YOUR COMFORT

Our SMaRT and SHP/SCR controller and timers make managing your Solaira heat incredibly easy.



## Solaira SMaRT Series Waterproof Dual Voltage Variable Control

- Allows for on/off and variable control of infrared heaters
- Integrated 5-60 min. timer (require opt. push button or wall switch)
- Optional Wall Switch Interface for clean in-room look
- Optional area people occupancy monitor, no people, no heaters required
- Optional temperature lock-out restricts heater use to minimum ambient temperatures
- Optional handheld remote for main or wall switch control

*cETL-SP1000 Canada Inspected\**

Model	Description	Max Load (Watts)	Voltage (Volts)	Dimensions
SMaRT34-DV	SMaRT 34 Dual Voltage Controller	6.4kW@208/240V 3.2kW@120V	208/240V, 1ph 120V	11" X 6.8" X 3.5" (28 X 17 X 8 cm)
SMaRT16-DV	SMaRT 16 Dual Voltage Controller	3.2kW@208/240V 1.6kW@120V	208/240V, 1ph 120V	11" X 6.8" X 3.5" (28 X 17 X 8 cm)
SM-WSD	SMaRT Wall Switch for use with SMaRT34/16-DV	N/A	N/A	Standard Single Electrical Box
SMRTVRMT	SMaRT remote for use with SMaRT34/16-DV	N/A	N/A	
SMRTEM-R	SMaRT remote temperature sensor for use with SMaRT34/16-DV	N/A	N/A	
SMRTVOCC	SMaRT remote occupancy sensor for use with SMaRT34/16-DV	N/A	N/A	

Solaira products are to be installed by licensed technicians per instruction manuals and to all provincial/state and national (N.E.C.) code requirements; specifications subject to change without notice.



## Solaira SMaRT Series Waterproof Occupancy Sensor Controls

- Stand-alone people occupancy sensing on/off control programmable 5-60 min timer
- Temperature lock out restricts heater use to minimum ambient temperatures

## Solaira SMaRT Series Waterproof Timer Controls

- Touch timer on control
- Programmable 5-60 min timer

*Both models cETL-SP1000 Canada Inspected\**

Model	Description	Max Load (Watts)	Voltage (Volts)	Dimensions
SMRTOCC40	SMaRT 40 Occupancy Sensor On / Off Control	4.0kW	208/240V	4" X 4" X 2.5" (10 X 10 X 6 cm)
SMRTOCC60	SMaRT 60 Occupancy Sensor On / Off Control	6.0kW	208/240V	5.2" X 5.2" X 3.2" (13 X 13 X 8 cm)
SMRTTIM40	SMaRT 40 Timer On / Off Control	4.0kW	208/240V	4" X 4" X 2.5" (10 X 10 X 6 cm)
SMRTTIM60	SMaRT 60 Timer On / Off Control	6.0kW	208/240V	5.2" X 5.2" X 3.2" (13 X 13 X 8 cm)

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## Solaira Omnis Control Series

### Solaira Analog High-Power Electric Radiant Infrared Heater Control and enclosures

- Solaira SHP series is the workhorse of our control options and engineered for medium to large loads that require variable heat output
- Integration into Building Management Systems
- On/Off and Variable Control
- Optional Low Voltage Input Card for occupancy/motion monitoring, temperature and moisture monitoring
- Optional Low Voltage Input Card for BMS Integration
- For loads of up to 30A, 80A, 150A and 350A at both 120V and 208-240V maximum power

*cULus , CSA Listed*

- Compatible with Lutron™, Crestron™, Control 4™ and other leading Building Management Systems
- 0-10V DC, 1 – 24mA input for custom control
- Occupancy sensor option
- Timer option
- Thermostatic input option



Smart Phone App  
Integrated App requires BMS interface and downloads.

Visit [www.solairaheaters/radiant-heating-systems/commercial-controls/](http://www.solairaheaters/radiant-heating-systems/commercial-controls/) for more details and specification sheets

Model	Description	KVA@Max. Rated Volts 120v/240v	Voltage (Volts)	Enclosure
PASCR30-1-DIN	Omnis Control 30 Amp, 1 P	13.6/7.2	120- 208/240V	12" X 12" X 8" Deep
PASCR90-1-DIN	Omnis Control 90 Amp, 1 P	10.8/21.6	120- 208/240V	12" X 16" X 12" Deep
PASCR165-1-DIN	Omnis Control 165 Amp, 1 P	19.8/39.6	120- 208/240V	12" X 16" X 12" Deep
PASCR200-1-DIN	Omnis Control 200 Amp, 1 P	24/48	120- 208/240V	Call
OMNIS CUSTOM	Call	N/A	N/A	Call

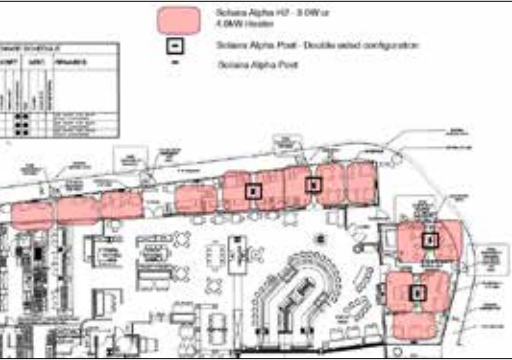
Solaira products are to be installed by licensed technicians per instruction manuals and to all provincial/state and national (N.E.C.) code requirements; specifications subject to change without notice.



# SELECTING YOUR SOLAIRA HEATING SYSTEM

## 1 DEFINE THE SPACE

- Measure the area to be heated (ie. Patio, work station, seating area etc.)
- Measure the mounting heights



## 2 DETERMINE THE PREFERRED MOUNTING TYPE



## 3 CALCULATE THE REQUIRED HEAT DENSITY FOR THE SPACE

- Define the target heat rise (ie. +10°, +20°F, temperature felt relative to ambient)
- Calculate required total wattage of Solaira Heaters per zone (HEAT DENSITY)

**Calculate the required Heat Density for the space**

- Define the target heat rise (ie. +10°, +20°F)
- Calculate required total wattage of Solaira Heaters per zone (HEAT DENSITY)

**CALCULATE SOLAIRA INFRARED HEAT DENSITY based on 8 – 10’ Mounting Height**  
*HEAT DENSITY (HD) is calculation of infrared heat energy measured in Watts (W) per square foot of coverage.*

1. Measure the area of the patio, building, room or space to be heated, dimension will be in sq ft (m).  
Example: Patio is 12 X 20 = 240 sq ft (m)

2. Determine target heat rise in °F (or C) for comfort in the space, this rise will be delivered based on ambient temp.  
Example: target 66°, seasonal average ambient is 36°, target heat rise is +30°

SPECIFYING NOTE: heat density can be controlled with variable controls and allow for greater heat rise during colder season

3. Calculate the Total Heat Density (in Watts):  
TOTAL HEAT DENSITY OUTDOOR = TOTAL SQUARE FOOTAGE X TARGET HEAT RISE X 2  
TOTAL HEAT DENSITY INDOOR = TOTAL SQUARE FOOTAGE X TARGET HEAT RISE

For mounting heights greater than 10’, add + 10 to 20% heat density. Contact your local Solaira Authorized dealer for details.

4. Determine heater distribution in target area with calculated Heat Density while considering:  
a. even placement of heaters  
b. Mounting height and clearance restrictions of heaters  
*(Note: heaters greater the 1.5kW ARE NOT RECOMMENDED FOR INDOOR RESIDENTIAL USE)*  
Example: Total outdoor patio area of 10 X 20 is 200 Sq ft, Target heat rise is 30° to ambient  
Total Heat Density = 200 sq ft X 30 X 2 = 12kW (12,000W) or 60 Watts/square ft  
Consider 4 (four) Solaira Alpha or ICR 3.0, 240V heaters placed on opposite walls with even distribution, check requirements

HEAT DENSITY (HD) GUIDE to raise approx. 10°F – By AREA INSULATION*		
Area Installation Type	8' - 10' Mount HD (W/sq ft)	11' - 15' Mount HD (W/sq ft)
Indoor Insulated	9-11	11-13
Indoor Un-Insulated / High Draft	14-17	17-20
Outdoor Enclosed	15-20	21-24
Outdoor Unenclosed (Open)	20-30	N/A

For each 5 degree increase in target comfort level, MULTIPLY THE RHD BY 1.5  
For each 10 degree increase in target comfort level, MULTIPLY THE RHD BY 2.0  
EXAMPLE INSTALLATION: Outdoor open area, 8' mounting height, 50° ambient level, target level 70° - recommended HD 40 to 60 W/sq ft\*

HEAT DENSITY (RHD) GUIDE – By AREA/ACTIVITY*		
Area / Activity	Watt/sq m	Watt/sq ft
Open Restaurant Patio, Hotel Terrace	300	28
Outdoor Residential Patio	300	28
Factory Unit & Workshop	150	14
All Purpose Community & Village Halls Offices	200	19
Place of Worship, Churches, Temples, Synagogue	300	28
Sports Complex, Halls & Gymnasium (non-ice)	150	14
Garages, Warehouses, Showrooms, Aircraft Hangars	150	14
Loading Bays	350	32

\*Guide is illustrative and may not provide suitable heat density to suit application. For more accurate heat density and load planner, contact your local authorized Solaira dealer.

## 4 SELECT SOLAIRA INFRARED HEATER

- Engineered by application
- Architectural and performance focused

	Alpha	ICR	XL	Cosy	Ziro	Malibu
Ceiling Suspended	✓ Requires Extension or Chain	✓	N/A	N/A	✓	N/A
Ceiling Suspended - Low Clearance	N/A	✓	N/A	N/A	✓	N/A
Ceiling Integrated (Recessed)	N/A	✓ Plus Trim Kit	N/A	N/A	✓	N/A
Wall Mount - Mounting Height Greater than 10'	✓	✓	-	-	-	-
Wall Mount - Mounting Height 8' - 10'	✓	✓	✓	-	✓	-
Commercial Umbrella / Awning	-	-	✓	✓	-	-
No Light (Enclosed, Semi-Enclosed, Non-Breezy Areas)	-	-	-	-	✓	-
Fixed Location - Permanent Mount	-	-	-	-	-	✓

Specifications subject to change without notice.





Alpha | Alpha Candel Series Specifications

Single Emitter

Weight 7.5 lbs [3.4 kg]

H2- Double Emitter

Weight 12.3 lbs [5.6 kg]

H3- Triple Emitter

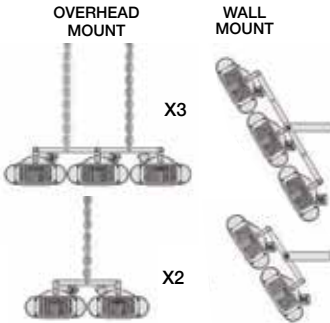
Weight 17.6 lbs [8.0 kg]

For wall mount and ceiling suspended (with additional extension or chain) applications.  
Not suitable for recess application.

Model	GTIN/UPC#	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Min. Height From Floor (Inches/cm)	Clearance to Ceiling (Inches/cm)	Clearance to Side Wall (Inches/cm)	Weight (Pounds/kg.)	Replacement Emitter
SALPHA15120G	687175000013	1500	120	12.5	79"/79" (201/201cm)	11-3/4" (30cm)	40" (100cm)	7.5lbs (3.4kg)	SWIREAW15120
SALPHA15240L1G	687175000020	1500/1125	240/208	6.3/5.4	79"/79" (201/201cm)	11-3/4" (30cm)	40" (100cm)	7.5lbs (3.4kg)	SWIREAW15240
SALPHA15240-L1B Candel		1500/1125	240/208	6.3/5.4	79"/79" (201/201cm)	11-3/4" (30cm)	40" (100cm)	7.5lbs (3.4kg)	SWIREAW15240-L1
SALPHA15240L1B	687175000037	1500/1125	240/208	6.3/5.4	79"/79" (201/201cm)	11-3/4" (30cm)	40" (100cm)	7.5lbs (3.4kg)	SWIREAW15240
SALPHA20277L1G		2000	277	7.2	79"/79" (201/201cm)	19-1/2" (50cm)	40" (100cm)	7.5lbs (3.4kg)	SWIREAW20277-L1
SALPHA20240L1G	687175000044	2000/1500	240/208	8.3/7.2	79"/79" (201/201cm)	19-1/2" (50cm)	40" (100cm)	7.5lbs (3.4kg)	SWIREAW20240
SALPHAH2-30240L1G	687175000051	3000/2250	240/208	12.5/10.8	98-1/4" (250cm)	19-1/2" (50cm)	40" (100cm)	12.3lbs (5.6kg)	SWIREAW15240
SALPHAH2-40240L1G	687175000068	3000/2250	240/208	12.5/10.8	98-1/4" (250cm)	19-1/2" (50cm)	40" (100cm)	12.3lbs (5.6kg)	SWIREAW15240
SALPHA2-30240-L1B Candel		3000/2250	240/208	12.5/10.8	98"/98" (250/250cm)	19-1/2" (50cm)	40" (100cm)	12.3lbs (5.6kg)	SWIREAW15240 -L1
SALPHA2-40277L1G		4000	277	14.4	98-1/4" (250cm)	19-1/2" (50cm)	40" (100cm)	12.3lbs (5.6kg)	SWIREAW20277-L1
SALPHAH2-40240L1G	687175000075	4000/3000	240/208	16.7/14.4	98-1/4" (250cm)	19-1/2" (50cm)	40" (100cm)	12.3lbs (5.6kg)	SWIREAW20240
SALPHA3-45240-L1B Candel		4500/3375	240/208	18.8 /16.2	108"/99" (274/250cm)	19-1/2" (50cm)	40" (100cm)	17.6 lbs. (8.0 kg)	SWIREAW15240 -L1
SALPHA3-60277UG		6000	277	21.7	120"/108" (305/274cm)	19-1/2" (50cm)	59"/40" (150/100cm)	17.6 lbs. (8.0 kg)	SWIREAW20277-L1
SALPHAH3-60240L1G	687175000082	6000/4500	240/208	25.0/21.6	120"/108" (305/274cm)	19-1/2" (50cm)	59"/40" (150/100cm)	17.6 lbs. (8.0 kg)	SWIREAW20240
SALPHAH3-60240L1B	687175000099	6000/4500	240/208	25.0/21.6	120"/108" (305/274cm)	19-1/2" (50cm)	59"/40" (150/100cm)	17.6 lbs. (8.0 kg)	SWIREAW20240

B- Denotes Black RAL9005 | S- Denotes Silver/grey RAL9006 | L1- Denotes Candel Series Ultra Low Light

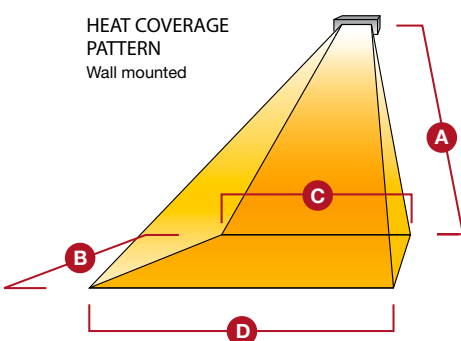
MOUNTING CONFIGURATIONS



Connecting brackets allow for high density application and adjustable focal point. Specification requires 2 heaters and X3, 3 heaters.



Certified to UL2021 and CSA 22.2



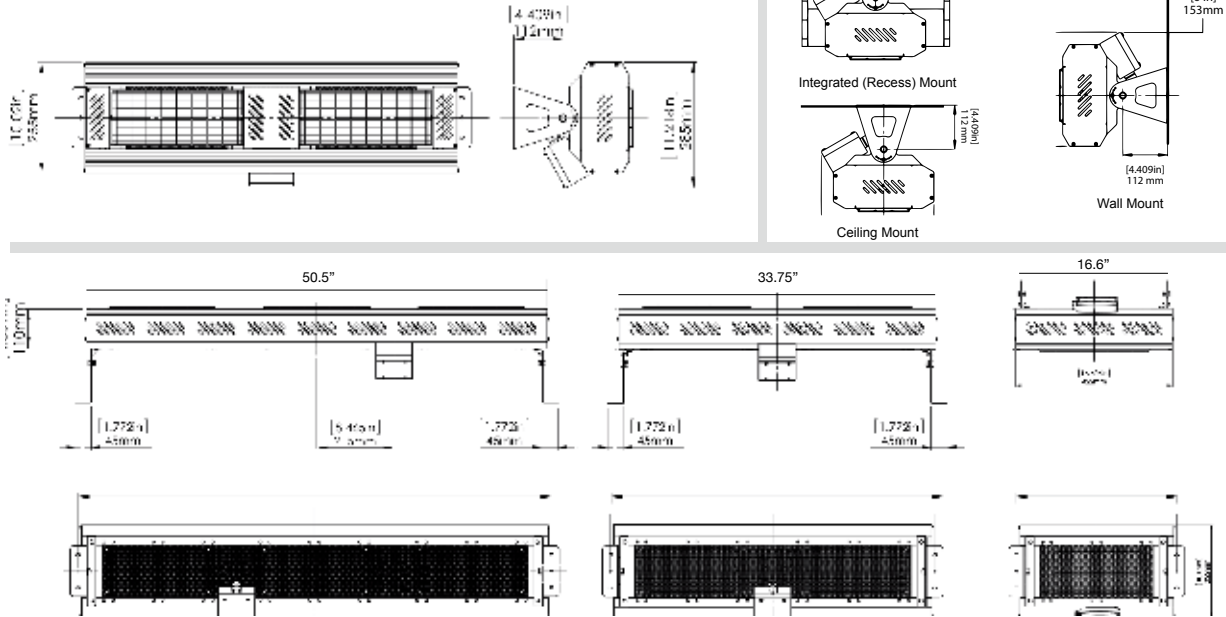
Heat Coverage Examples						
Model	A	B	C	D	Heat Zone*	Heat Density*
SALPHA15120S	8'2"	10'	10'	12'	110 sq. ft.	13 Watt/sq. ft.
SALPHA15240S	8'2"	10'	10'	12'	110 sq. ft.	13 Watt/sq. ft.
SALPHA20240S	8'2"	10'	10'	12'	110 sq. ft.	18 Watt/sq. ft.
SALPHAH2-30240S	10'	11'	13'	16'	160 sq. ft.	19 Watt/sq. ft.
SALPHAH2-40240S	10'	11'	13'	16'	160 sq. ft.	25 Watt/sq. ft.
SALPHAH3-60240S	12'	14'	15'	18'	230 sq. ft.	26 Watt/sq. ft.
SALPHAH2-40240S X2	12'	14'	15'	17'	200 sq. ft.	34 Watt/sq. ft.
SALPHAH3-60240S X2	15'	20'	15'	22'	370 sq. ft.	32 Watt/sq. ft.

\* Heat Zone and actual heat density will vary based on mounting height and angle of heater (Overhead mounted heat zones will be different then this guide). Please use this as a guideline only and contact Solaira for a more detailed specifier guide.

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ICR | ICR Recess | ICR Candel Specifications

SPECIFICATIONS

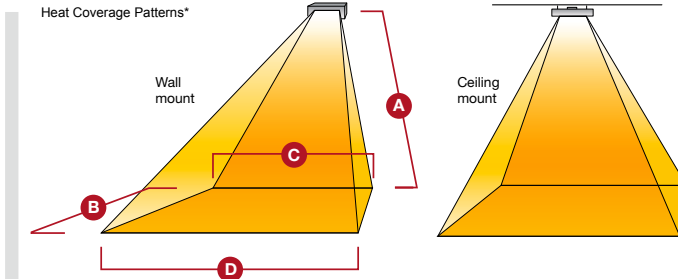


For Wall mount, Ceiling/Ceiling suspended and Integrated (recess) applications.

Model	GTIN/UPC#	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Min. Height From Floor (Inches/cm)	Clearance to Ceiling (Inches/cm)	Clearance to Side Wall (Inches/cm)	Weight (Pounds/kg.)	Replacement Emitter
SICR20240L1B	687175001003	2000/1500	240/208	8.3/7.2	79"/79" (201/201cm)	6" (15cm)	40" (100cm)	7.5lbs (3.4kg)	IWIRE20240-L1
SICR30240L1B	687175001010	3000/2250	240/208	12.5/10.8	98" (250cm)	6" (15cm)	40" (100cm)	7.5lbs (3.4kg)	IWIRE15240-L1
SICR30240-L1B Candel		3000/2250	240/208	12.5/10.8	98"/98" (250/250cm)	6" (15cm)	40" (100cm)	13lbs. (8.0 kg)	IWIRE15240-L1
SICR40240L1B	687175001027	4000/3000	240/208	16.7/14.4	98" (250cm)	6" (15cm)	40" (100cm)	7.5lbs (3.4kg)	IWIRE20240-L1
SICR450240L1B	687175001034	4500/3375	240/208	18.8/16.2	108"/98-1/4" (274/250cm)	6" (15cm)	59" (150cm)	7.5lbs (3.4kg)	IWIRE15240-L1
SICR45240G-L1B Candel		4500/3375	240/208	18.8/16.2	108"/99" (274/250cm)	6" (15cm)	40" (100cm)	17.6lbs (8.0kg)	IWIRE15240-L1
SICR60240B	687175001041	6000/4500	240/208	25.0/21.6	120"/108" (305/274cm)	6" (15cm)	59" (150cm)	17.6lbs (8.0kg)	IWIRE20240-L1
SICR-H1-TRMB* for recess application	687175001508	n/a	n/a	n/a	see above	n/a	see above	n/a	n/a
SICR-H2-TRMB* for recess application	687175001515	n/a	n/a	n/a	see above	n/a	see above	n/a	n/a
SICR-H3-TRMB* for recess application	687175001522	n/a	n/a	n/a	see above	n/a	see above	n/a	n/a

\* Trim Kit required for integrated (recess) application per cCSAus Instruction manual along with fire rated box provided by authorized contractor

B- Denotes Black RAL9005 | G- Denotes Antique Grey RAL9007 | L1- Denotes Candel Series Ultra Low Light



Wall Mount Heat Coverage Guideline\*

Model	A	B	C	D	Heat Zone*	Heat Density*
SICR60240G	10'	11'	12'	12'	143 sq. ft.	40 W/sq. ft.
SICR45240G (LL)	10'	11'	12'	12'	143 sq. ft.	31 W/sq. ft.
SICR40240G	8'2"	10'	11'	11'	120 sq. ft.	33 W/sq. ft.
SICR30240G (LL)	8'2"	10'	11'	11'	120 sq. ft.	25 W/sq. ft.
SICR20240G	8'2"	10'	10'	10'	100 sq. ft.	20 W/sq. ft.

\* Heat Zone and actual heat density will vary based on mounting height and angle of heater (Overhead mounted heat zones will be different then this guide). Please use this as a guideline only and contact Solaira for a more detailed specifier guide.



Certified to UL2021 and CSA 22.2


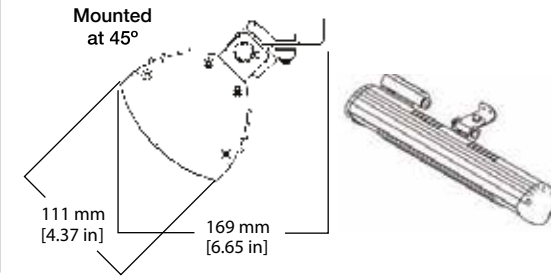
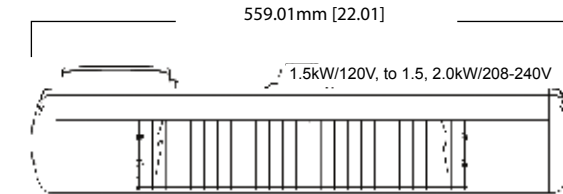
Solaira products are to be installed by licensed technicians per instruction manuals and to all provincial/state and national (N.E.C.) code requirements; specifications subject to change without notice.



XL | XL Candel Series Specifications

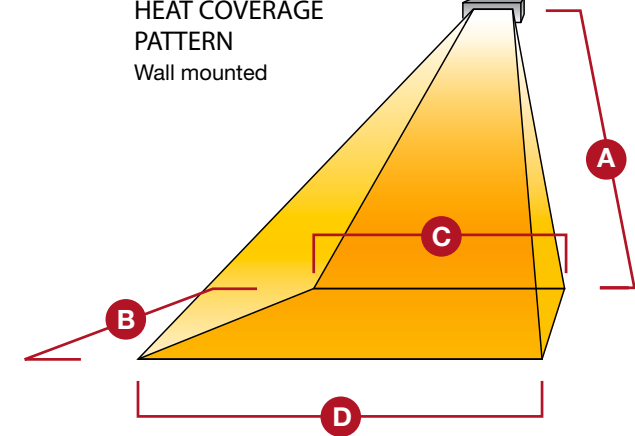
SPECIFICATIONS XL

1.5,2.0kW/240V



HEAT COVERAGE PATTERN

Wall mounted




HEAT COVERAGE EXAMPLES

Model	A	B	C	D	Heat Zone*	Heat Density*
SCOSYXL15120 B/W	6' 7"	9	8	11	90 sq. ft.	16 watt/sq. ft.
SCOSYXL15240 B/W	6' 7"	9	8	11	90 sq. ft.	16 watt/sq. ft.
SCOSYXL20240 B/W	8' 2"	9	8	11	90 sq. ft.	22 watt/sq. ft.

\* Heat Zone and actual heat density will vary based on mounting height and angle of heater (Overhead mounted heat zones will be different then this guide). Please use this as a guideline only and contact Solaira for a more detailed specifier guide.

For Wall mount applications; Not suitable Ceiling/Ceiling suspended applications or Integrated (recess) applications.



Certified to UL2021 and CSA 22.2

Model	GTIN/UPC#	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Min. Height From Floor (Inches/cm)	Clearance to Ceiling (Inches/cm)	Clearance to Side Wall (Inches/cm)	Weight (Pounds/kg.)	Replacement Emitter
SCOSYXL15120B	687175002000	1500	120	12.5	79" (201cm)	11-3/4" (30cm)	40" (100cm)	6.2lbs (2.8kg)	SWIREAW15120
SCOSYXL15120W	687175002017	1500	120	12.5	79" (201cm)	11-3/4" (30cm)	40" (100cm)	6.2lbs (2.8kg)	SWIREAW15120
SCOSYXL15240-L1B	687175002024	1500/1125	240/208	6.3/5.4	79" (201cm)	11-3/4" (30cm)	40" (100cm)	6.2lbs (2.8kg)	SWIREAW15240-L1
SCOSYXL15240-L1B Candel		1500/1125	240/208	6.3/5.3	79" (201cm)	11-3/4" (30cm)	39-1/2" (100cm)	5.1lbs. (2.3 kg)	SWIREAW15240-L1
SCOSYXL15240-L1W	687175002031	1500/1125	240/208	6.3/5.5	79" (201cm)	11-3/4" (30cm)	40" (100cm)	6.2lbs (2.8kg)	SWIREAW15240-L1
SCOSYXL20240-L1B	687175002048	2000/1500	240/208	8.3/7.2	103"/79" (249/201cm)	11-3/4" (30cm)	40" (100cm)	6.2lbs (2.8kg)	SWIREAW20240-L1
SCOSYXL20240-L1W	687175002055	2000/1500	240/208	8.3/7.2	103"/79" (249/201cm)	11-3/4" (30cm)	40" (100cm)	6.2lbs (2.8kg)	SWIREAW20240-L1
SCOSYXLH2-30240-L1B Candel	687175003045	3000/2250	240/208	12.5/10.8	98" (250cm)	11-3/4" (30cm)	40" (100cm)	13.2lbs (6.0kg)	SWIRE15240-L1
SCOSYXLH2-40240-L1B	687175003137	4000/3000	240/208	16.6/14.4	98" (250cm)	11-3/4" (30cm)	40" (100cm)	13.2lbs (6.0kg)	SWIRE20240-L1
SCOSYXLH2-30240-L1W	687175003125	4000/3000	240/208	16.6/14.4	98" (250cm)	11-3/4" (30cm)	40" (100cm)	13.2lbs (6.0kg)	SWIRE20240-L1
SCOSYXLH2-30240-L1SS	687175003120	4000/3000	240/208	16.6/14.4	98" (250cm)	11-3/4" (30cm)	40" (100cm)	13.2lbs (6.0kg)	SWIRE20240-L1
SCOSYXLH2-40240-L1SS	687175003144	4000/3000	240/208	16.6/14.4	98" (250cm)	11-3/4" (30cm)	40" (100cm)	13.2lbs (6.0kg)	SWIRE20240-L1

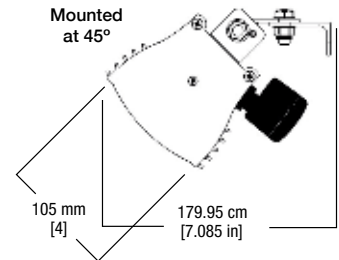
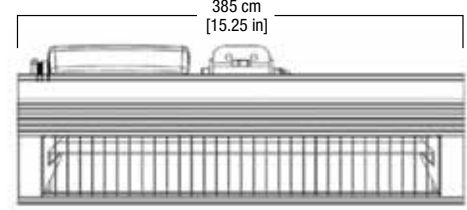
B- Denotes Black RAL9005 | W Denotes White RAL9010 | L1- Denotes Candel Series Ultra Low Light

Solaira products are to be installed by licensed technicians per instruction manuals and to all provincial/state and national (N.E.C.) code requirements; specifications subject to change without notice.

Cozy Series Specifications

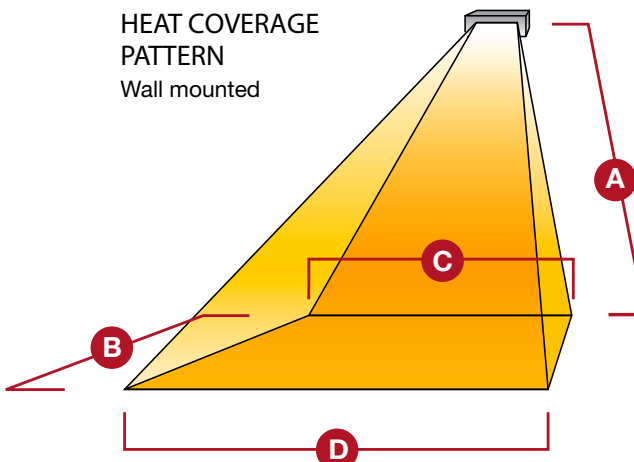
SPECIFICATIONS COSY

1.5kW/120V/ 1.5kW/208-240V



HEAT COVERAGE PATTERN

Wall mounted




HEAT COVERAGE EXAMPLES

Model	A	B	C	D	Heat Zone*	Heat Density*
SCOSYAW15120 B/W	6' 7"	8'	8'	10'	70 SQ FT	18 WATTS/SQ. FT
SCOSYAW15240 B/W	6' 7"	8'	8'	10'	70 SQ FT	18 WATTS/SQ. FT

\* Heat Zone and actual heat density will vary based on mounting height and angle of heater (Overhead mounted heat zones will be different then this guide). Please use this as a guideline only and contact Solaira for a more detailed specifier guide.

For Wall mount applications; Not suitable Ceiling and Ceiling suspended applications or Integrated (recess) applications.



Certified to UL2021 and CSA 22.2

Model	GTIN/UPC#	Total Power (Watts)	Voltage (Volts)	Total Current (Amps)	Min. Height From Floor (Inches/cm)	Clearance to Ceiling (Inches/cm)	Clearance to Side Wall (Inches/cm)	Weight (Pounds/kg.)	Replacement Emitter
SCOSYAW15120B	687175002505	1500	120	12.5	79" (201cm)	11-3/4" (30cm)	40" (100cm)	5.1lbs. (2.3 kg)	SWIREAW15120
SCOSYAW15120W	687175002512	1500	120	12.5	79" (201cm)	11-3/4" (30cm)	40" (100cm)	5.1lbs. (2.3 kg)	SWIREAW15120
SCOSYAW15240B	687175002529	1500/1125	240/208	6.3/5.4	79" (201cm)	11-3/4" (30cm)	40" (100cm)	5.1lbs. (2.3 kg)	SWIREAW15240-L1
SCOSYAW15240W	687175002536	1500/1125	240/208	6.3/5.5	79" (201cm)	11-3/4" (30cm)	40" (100cm)	5.1lbs. (2.3 kg)	SWIREAW15240-L1

B- Denotes Black RAL9005 | W Denotes White RAL9010 | L1- Denotes Candel Series Ultra Low Light

Solaira products are to be installed by licensed technicians per instruction manuals and to all provincial/state and national (N.E.C.) code requirements; specifications subject to change without notice.

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