

heatray



Heatray Umbrellas

PERMANENT STRUCTURES AND WEATHER PROTECTION ACCESSORIES



Protection from the elements to create comfort and energy savings with a wide range of heating, cooling and lighting options.

Heatray Umbrellas

Heatray Umbrellas are purpose-built permanent structures, engineered to withstand all weather conditions, including high wind loads. Designed for seamless integration with Heatray Electric Radiant Heaters (ERH) and Infrared Electric Radiant Heaters (IRH-E) these umbrellas are both elegant and robust, providing overhead protection against the elements.

Available in a range of shapes, sizes, and colours, Heatray Umbrellas can be interlinked for continuous coverage or installed as independent structures. A variety of weather accessories is available to enhance comfort and protection to substantially lower heating costs, with options to suit different project needs.

For night-time use, integrated lighting systems add both function and atmosphere. Spoke-mounted and designed to reflect off the canopy, warm white or coloured lighting complements the gentle warmth of radiant heat.

As well as being moisture and water-resistant, Heatray Umbrellas provide shade and protection from harmful UV rays. Built to the highest safety standards, they are ideal for commercial, hospitality, and residential settings. With their seamless design and integrated heating and lighting options, Heatray Umbrellas create outdoor spaces that can be enjoyed in comfort year-round.

Energy efficiency

The translucent Heatray Umbrella membrane allows daylight to pass through, providing natural light and reducing reliance on artificial lighting. It also reflects heat typically associated with traditional glazing, helping to keep spaces cooler on hot days and warmer in winter.

Application

- Outdoor dining areas and streetscapes
- Areas with wind exposure
- Suits Heatray ERH & IRH-E heaters
- Canopy clearance 2300mm - 2400mm (standard structures)
- Area coverage 7.5m² - 25m²

Key features

- Integration with Heatray heating, lighting, and weather protection accessories
- Non-glowing Electric Radiant Heaters (ERH) or low-glare Infrared Electric Radiant Heaters (IRH-E) options
- Concealed electrical wiring ensures maximum public safety and enhances the aesthetics of the umbrella structure
- Versatile lighting options, including Celight LED strips or floodlights
- Comprehensive weather protection accessories, such as side curtains, umbrella links, and rain gutters
- Tensile grade PVDF coated PVC fabric, waterproof, anti-fungal and UV resistant
- Canopy fabric and steel frame available in a range of colours
- Engineered to withstand high wind loads, with extra-strength models available for more challenging conditions
- Optional Celmist cooling system for summer months

Heatray Umbrellas



Heatray umbrella configuration



Concealed heater wiring



Waterproof central wiring loom



Wiring loom access cover



High frequency butt-joint welded canopy



316 stainless steel under-arm cable

TECHNICAL SPECIFICATIONS

Application	Outdoor areas and streetscapes
Materials/ Finishes	Architectural grade PVDF / PVC fabric, powdercoated, hot sprayed zinc & aluminium galvanised steel frame-work, SS316 fittings
Mounting	Permanent structure integrated with heating & lighting
Heat options	Non-glowing Electric Radiant Heat or Low-glare Infrared Electric Radiant Heat (ERH or IRH-E)
Lighting options	Celight LED strip or LED flood
Power	4800W - 9600W / 1Ph / 50Hz / 220-240V
Control	On/Off or two-zone control
Operation	ERH (slow-acting), IRH-E (instant)
Connection	Hard-wired
Protection	Heating units (IPX5), Umbrellas & Lighting (IP65)
Electrical	<div><div>– All wiring concealed and protected for public safety & aesthetics.</div><div>– RCD and power circuit protection Control Modules complete with remote (low amperage) switching for two-stage or two-zone heating & lighting systems</div><div>– Umbrella hub is the central wiring termination point for all heating & lighting equipment</div><div>– Sealed junction boxes with cable entry glands, rated IP65</div><div>– Hub Tray designed to house and conceal junction boxes & power cables</div><div>– Most Heatray umbrella models are fully foldable with heating & lighting components in place</div></div>

Electrical (cont)	<div><div>– Power is routed from underground through the umbrella post</div><div>– Power can also be brought in from an adjoining building if underground supply is prohibitive - this disallows umbrella foldability</div></div>
Structure materials	<div><div>– PVC canopy is waterproof, UV resistant & anti-fungal, easy clean PVDF coating for long life & low maintenance</div><div>– Marine grade 316 stainless steel under arm cables with tension adjustment ensure membrane tension can be maintained over time</div><div>– Wind-rated, durable all-steel frame construction is of commercial quality and designed to last</div><div>– Triplex steel coating system with two layers of powdercoat - the best powdercoat steel protection available today</div></div>
Heater options	<div><div>– ERH 1200W, 1800W, 2400W non-glowing heaters</div><div>– IRH-E 1600W, 2000W infrared low-glare heaters</div><div>* Note: Above options are subject to specific design requirements.</div></div>
Colour selector	<div><div>– Customise and enhance Heatray Umbrellas within any architectural or natural environmental setting by selecting from a wide range of tensile grade PVC fabric and steel powdercoat colours</div><div>– Additional colours available on request</div><div>* Note: Colour swatches on pg. 6 represent the standard colour range and non-standard colour options.</div></div>

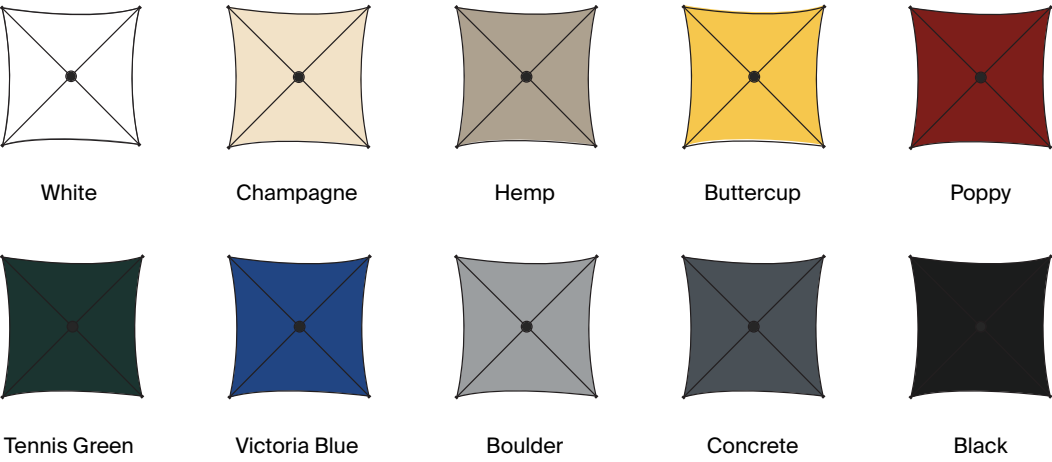
Heatray Umbrella Products		Model	Size	Application	Specifications
	Electric Radiant Heater	ERH ERH Onyx	950 x 150	Overhead radiant heating indoor / outdoor use	ERH 1200 - 1.2kW / 220-240V ERH 1800 - 1.8kW / 220-240V ERH Onyx 2400 - 2.4kW / 220-240V
	Infrared Radiant Heater	IRH-E	675 x 100	Overhead radiant heating indoor / outdoor use	IRH-E 1600 - 1.6kW / 220-240V IRH-E 2000 - 2.0kW / 220-240V
	Celight LED System	CEL 1050	1050 x 21	Umbrellas & custom structures	LED strip lighting, 3000K warm white Wide diffusion - 6W / 12VDC
	Control Module	CM4 CM8 CM12	375 x 220	Up to 4, 8 or 12 heaters with safety cut-out, circuit protection, low Amp switching, two-zone control and separate switching of the lighting circuit.	

Heatray Umbrellas Selector		Model	Size	Application	ERH	IRH-E
Square		CS32 (C30)	3180 x 3180	Small outdoor area. Foldable, permanent, freestanding umbrella structure. 8 person capacity.	ERH 1200 - 4 units Celight - 4 units 4.8kW On/Off heating On/Off lighting	IRH-E 1600 - 4 units Celight - 4 units 6.4kW On/Off heating On/Off lighting
Square		CS38 (C36)	3725 x 3725	Small outdoor area. Foldable, permanent, freestanding umbrella structure. 12 person capacity.	ERH 1200 - 4 units Celight - 4 units 4.8kW On/Off heating On/Off lighting (optional 8 ERH system)	IRH-E 2000 - 4 units Celight - 4 units 8.0kW On/Off heating On/Off lighting
Trunc. Sqr		CTS43 (ATS)	4295 x 4295	Large outdoor area. Foldable, permanent, freestanding umbrella structure. 16 person capacity.	ERH 1200 - 8 units Celight - 4 units 9.6kW On/Off heating On/Off lighting	IRH-E 2000 - 4 units Celight - 4 units 8.0kW On/Off heating On/Off lighting
Square		CS45 (AS)	4580 x 4580	Large outdoor area. Non-foldable, permanent, freestanding umbrella structure. 18 person capacity.	ERH 1200 - 8 units Celight - 4 units 9.6kW On/Off heating On/Off lighting	IRH-E 2000 - 4 units Celight - 4 units 8.0kW On/Off heating On/Off lighting
Square		CS50 (ALS)	5055 x 5055	Large outdoor area. Non-foldable, permanent, freestanding umbrella structure. 24 person capacity.	ERH 1200 - 8 units Celight - 4 units 9.6kW On/Off heating On/Off lighting	IRH-E 2000 - 4 units Celight - 4 units 8.0kW On/Off heating On/Off lighting
Rectangular		CR45	4550 x 3180	Large outdoor area. Non-foldable, permanent, freestanding umbrella structure. 16 person capacity.	ERH 1200 - 6 units Celight - 4 units 7.2kW On/Off heating On/Off lighting	IRH-E 2000 - 4 units Celight - 4 units 8.0kW On/Off heating On/Off lighting
Rectangular		CR53	5300 x 3755	Large outdoor area. Non-foldable, permanent, freestanding umbrella structure. 18 person capacity.	ERH 1200 - 8 units Celight - 4 units 9.6kW On/Off heating On/Off lighting	IRH-E 2000 - 4 units Celight - 4 units 8.0kW On/Off heating On/Off lighting

*Heatray umbrellas are purpose built by MakMax

Heatray Umbrellas Colour Range

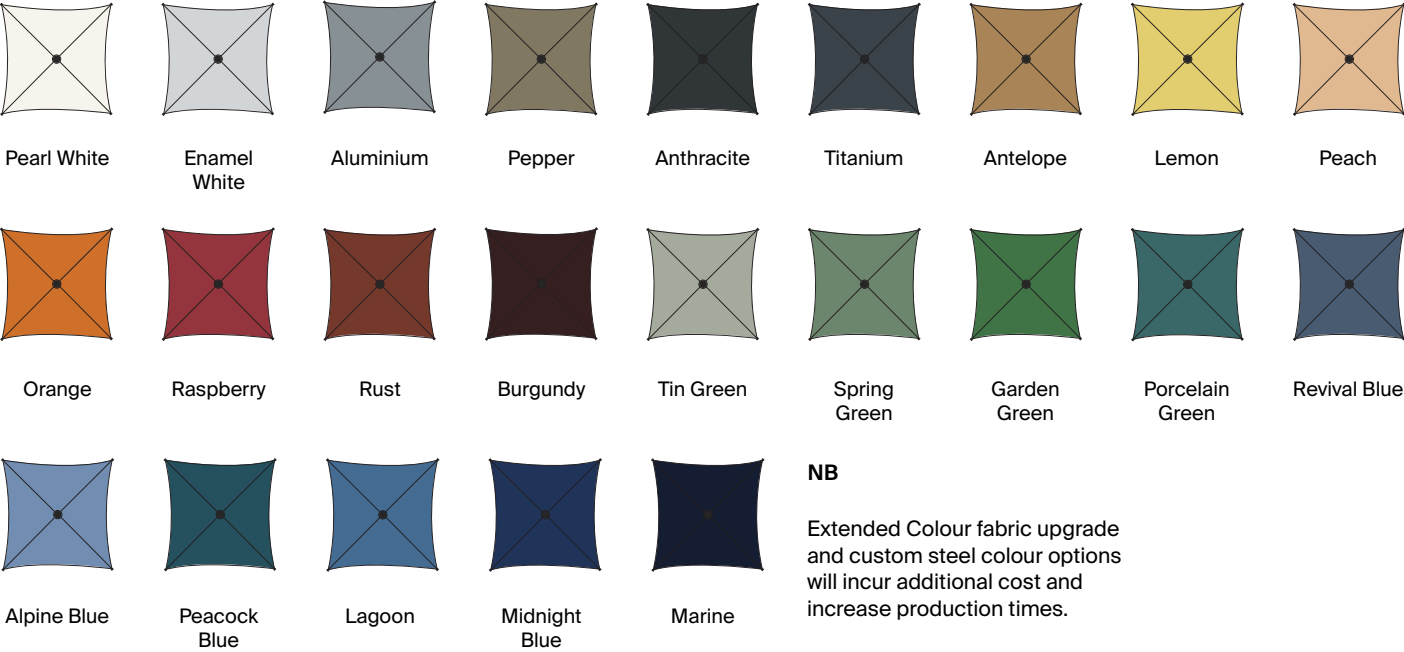
STANDARD COLOUR UPGRADE OPTIONS - SERGE-FERRARI SOLTIS 502V3



STEEL COLOURS - RAL (FOR CUSTOM STEEL COLOURS - VISIT WWW.RALCOLOR.COM)



EXTENDED COLOUR UPGRADE OPTIONS - SERGE-FERRARI SOLTIS 502V3



NB
Extended Colour fabric upgrade and custom steel colour options will incur additional cost and increase production times.

Weather Accessories

Weather Protection

Celmec's weather accessories enhance the effectiveness of the Heatray Umbrella system, providing all-season protection and optimising comfort in any conditions.

Energy efficiency

Weather accessories can reduce heating system running costs by up to 80%, conserving energy and creating a cleaner environment. By improving comfort and significantly lowering operating costs, they benefit both users and operators alike.

Application

- Outdoor protection against wind, draughts, glare, rain and snow
- Seamless linking system

Key Features

- Heat retention, energy conservation, and weather protection for year-round comfort
- Modular framing system allows easy integration of weather protection components
- Linking gutters connect multiple umbrellas for seamless coverage
- Roof infills available in a range of colours to complement the umbrella membrane
- External fabric gutters control rainwater runoff efficiently
- Side covers provide wind and rain protection, featuring zippers and ground-level draught control
- Wind columns stabilise side covers by counteracting lateral wind forces, enhancing the umbrella's structural integrity

Accessories include:

- Umbrella frames
- Linking gutters
- Roof infills
- Perimeter gutters
- Transparent side covers
- Wind columns for extra strength



6 Umbrellas linked together



Side Screens



Roof Infills & Link Gutter detail



Link Gutter run-off



Building Infill



Side Cover Door - open



Side Cover Door - closed



Side Cover & Wind Columns



Anchor Strap detail

With efficient operation and elegant design, Heatray products deliver superior infrared warmth in all kinds of environments.



Opera Bar, Circular Quay, Sydney.



Arintji, Federation Square, Melbourne.



Oyster Bar, Circular Quay, Sydney.



Cafe Ferber, Sopot, Poland.



Yarra Botanica, Southbank, Melbourne.



Maldini, Salamanca Place, Hobart.



Corowa RSL Club, NSW.



Skyroom, Manhattan, New York.

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