



EFFICIENT
POWERFUL
ADVANCED

TRH | TUBE RADIANT HEATING



heatray®
by celmecc

TRH

Tube Radiant Heating

Heatray TRH gas-fired units are non-glowing, low to medium intensity heaters, creating comfortable radiant warmth, effectively absorbed by people and objects alike.

TRH units are ideal for challenging conditions within vast interior and exterior spaces in addition to low level spot heating - suitable for industrial, commercial and hospitality applications.

TRH products are designed to be ceiling or wall mounted with Natural Gas or LPG operation, available in a variety of sizes ranging from 53MJ/h - 170MJ/h and floor coverage of up to 180m², depending on model and application.

Efficiency

Celmecc's TRH forced draught burner technology combined with turbulent combustion enhancement, light-weight black heat tube and embossed aluminium reflectors are some of the unique initiatives utilised to achieve ultimate performance.

A range of controls can be employed to further enhance efficient operation, including zone and thermostatic control.

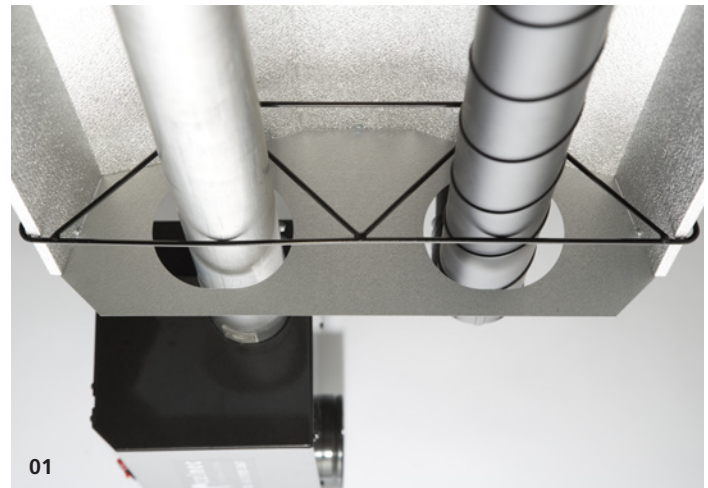
Application

- Indoor / outdoor undercover areas
- Adequately ventilated areas otherwise must be flued
- Mounting height 3.5m - 6.5m
- Area coverage 35m² - 180m²

Key Features

- Forced draught burner technology ensuring ultimate performance and product longevity.
- Energy savings of up to 50% compared to conventional warm air heating systems.
- Soft-start electronic ignition and automatic safeguard system.
- Light-weight, aluminised steel black heat tubes with rapid warm-up response, high emissivity and longevity.
- Fully sealed systems are available utilising outside air intake and flue exhaust ducting kits.
- Light weight embossed aluminium reflectors are non-tarnishing, exhibiting optimal thermal performance and long life.
- Accessories include side shields, ball guards, decorative enclosures, grilles, burner inlet silencers & weather protection.
- Units can be controlled according to project requirements with thermostats and zone control options.
- Easy to install, quiet operation and minimal maintenance.
- Units approved by the Australian Gas Association.

* Refer to appendix for product specifications and details.





03



04



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- 01 Heat Tube detail
- 02 Menzies Lane, Melbourne Central, VIC
- 03 Boatbuilders Yard, South Wharf, Melbourne
- 04 Bearbrass, Southbank, Melbourne
- 05 Hilton Hotel, South Wharf, Melbourne

Technical Specifications

- **Application:** Large open indoor / outdoor undercover areas
- **Dimensions:** Refer table below
- **External finish:** Charcoal powdercoated aluminised steel burner, embossed aluminium reflector, aluminised steel blast-tube, aluminised black heat-tubes
- **Mounting:** Ceiling / wall / chain suspension
- **Mounting height:** 3500 - 6500mm (nominal)
- **Heat type:** Non-glowing radiant heat
- **Capacity:** 53MJ/h - 170MJ/h (14.7kW - 47.2kW)
- **Range:** 2500 - 6500mm forward radius / 120° span
- **Control:** On/Off (standard) or thermostatic control, 7-day timer
- **Operation:** Electronic ignition, 240V / 50Hz / 1Ph
- **Connection:** 1/2" BSP gas connection, NG (1.1-4.0kPa) or LPG (2.75kPa)
- **Burner options**
 - Inlet silencer
 - Weather proofing
- **Clearances (min)**
 - Bottom clearance from flammables - 1500mm
 - Side distance to wall: 300mm (UP3 / SP6), 1000mm (UP4.5-12 / SP9-15)
 - Top (ceiling) clearance: 150mm (UP3-6 / SP6-12), 300mm (UP7.5-12 / SP15)
- **Control module**
 - 285W x 230H x 115Dmm
 - 1-6 illuminated system switches
 - Control thermostat & 7-day digital timer
 - Timer by-pass switch (illuminated)
 - Switching relay (ability to switch up to 12 burners)



chain suspension



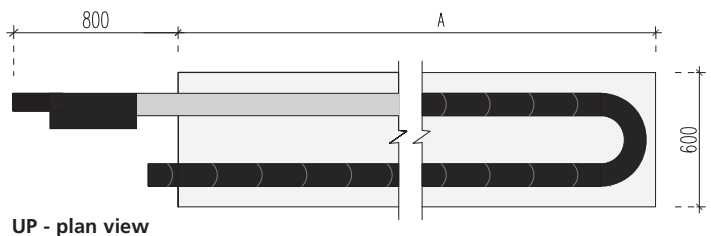
side shields



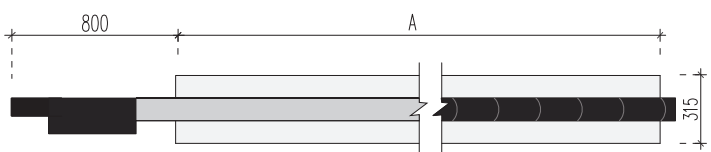
protective mesh guard



decorative enclosure



UP - plan view



SP - plan view



burner



burner with silencer



control module

Model TRH				MJ/h	kW	Clearance to Combustibles			Weight (kg)	Floor cover guide (m ²)	Dimension "A" (mm)	Installation Height (mm)
NG	LPG					Bottom	Side	Top				
2400	01	02	UP3	53	14.7	1500	300	150	34	35	3000	3500*
2405	03	04	UP4.5	79	21.9	1500	1000	150	43	48	4500	4000*
2410	05	06	UP6	106	29.4	1500	1000	150	52	70	6000	4500*
2415	07	08	UP7.5	127	35.2	1500	1000	300	63	90	7500	5500*
2700	07	08	UP9	127	35.2	1500	1000	300	74	140	9000	5500*
2705	07	08	UP12	127	35.2	1500	1000	300	93	160	12000	5500*
2710	09	10	UP9	150	41.7	1500	1000	300	74	160	9000	6000*
2715	11	12	UP12	170	47.2	1500	1000	300	93	180	12000	6500*

UP - "U" Packages

Model TRH				MJ/h	kW	Clearance to Combustibles			Weight (kg)	Radiant Area (m ²)	Dimension "A" (mm)	Installation Height (mm)
NG	LPG					Bottom	Side	Top				
2400	01	02	SP6	53	14.7	1500	300	150	36	35	6000	3500*
2405	03	04	SP9	79	21.9	1500	1000	150	45	48	9000	4000*
2410	05	06	SP12	106	29.4	1500	1000	150	55	70	12000	4500*
2415	07	08	SP15	127	35.2	1500	1000	300	63	90	15000	5000*

SP - Straight Packages

* Nominal height