

# Rittal – The System.

Faster – better – everywhere.

## Rittal Enclosure Heaters



Condensation represents a serious risk for control electronics, both in outdoor and indoor locations. Rittal's enclosure heaters are designed to regulate the internal conditions of an enclosure. Advanced PTC technology allows the heater to self-regulate its operation – only using energy when required. The energy-efficient PTC technology and design optimization maximizes the latest in computational fluid dynamics (CFD) to permit improved heating outputs. New features like double quick-fit terminals and a quick-assembly system save time and unnecessary costs.

Without fans there's continual thermal output of 10 to 150 watts available in 7 units from the smallest 8-10W heater to the largest 130-150W model. Various output ratings ensure that the correct thermal output is always available. Heaters with built-in fans are capable of generating thermal output of 250W, 400W and 800W from three models. For precise temperature control, all the units can be fitted with an optional thermostat, temperature indicator/controller and a hygostat to monitor humidity levels.

- Available with or without internal fans
- Optional thermostat, temperature indicator/controller and hygostat available on all models
- Quick-fit terminals
- New quick-assembly designs
- Thermal capacities from 10 to 150 watts in seven models without fans

- Three models with built-in fans generate 250W, 400W or 800W thermal capacity
- Models without fans operate at 110/240 volts – 50/60 Hz
- Models with fans operate at 110/230 volts – 50/60 Hz
- Special voltage are available

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP

[www.rittal.ca](http://www.rittal.ca)

Note: Imperial measurements are approximate, metric measurements are exact.

**Recommendations:**

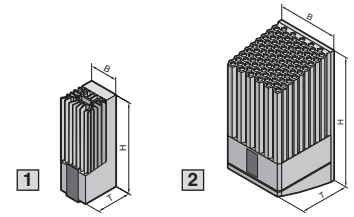
- A thermostat (part number 3110.000, see accessories) is needed for precise temperature control in the enclosure
- To prevent condensation a hygostat (part number 3118.000) is needed to regulate heating
- In larger enclosures, even heat distribution is best achieved by installing several low-output heaters
- The installation of heaters is generally advisable, even when using heat exchangers and cooling units, in order to prevent condensation

**Part number includes:**

- PTC heater with quick-fit terminal and assembly parts

**Detailed drawings:**

Available at [www.rittal.ca](http://www.rittal.ca)



**1 Without fan, continuous thermal output 10 – 150 W**

| Part Number                                                | 3105.310              | 3105.320             | 3105.330              | 3105.340               | 3105.350               | 3105.360                | 3105.370                 |
|------------------------------------------------------------|-----------------------|----------------------|-----------------------|------------------------|------------------------|-------------------------|--------------------------|
| Height inches (mm)                                         | 4.7 (120)             | 4.7 (120)            | 6.1 (155)             | 6.1 (155)              | 9.1 (230)              | 6.5 (165)               | 7.1 (180)                |
| Width inches (mm)                                          | 1.8 (45)              | 1.8 (45)             | 2.5 (64)              | 2.5 (64)               | 2.5 (64)               | 3.5 (90)                | 3.5 (90)                 |
| Depth inches (mm)                                          | 1.8 (46)              | 1.8 (46)             | (56)                  | 2.2 (56)               | 2.2 (56)               | 3.0 (75)                | 3.5 (90)                 |
| Rated operating voltage Volt, Hz                           | 110 – 240 V, 50/60 Hz |                      |                       |                        |                        |                         |                          |
| Continuous thermal output at T <sub>U</sub> = 50 F° (10°C) | 27 – 34<br>(8 – 10)   | 61 – 68<br>(18 – 20) | 78 – 102<br>(23 – 30) | 167 – 171<br>(49 – 50) | 215 – 256<br>(63 – 75) | 293 – 341<br>(86 – 100) | 444 – 512<br>(130 – 150) |
| Pre-fuse T                                                 | 2 A                   |                      |                       | 4 A                    |                        |                         |                          |

**Accessories**

|                                  |          |
|----------------------------------|----------|
| Thermostat                       | 3110.000 |
| Hygostat                         | 3118.000 |
| Digital temp. display/thermostat | 3114.200 |

Special voltages available on request. We reserve the right to make technical modifications.

**2 With fan, continuous thermal output 250 – 800 W**

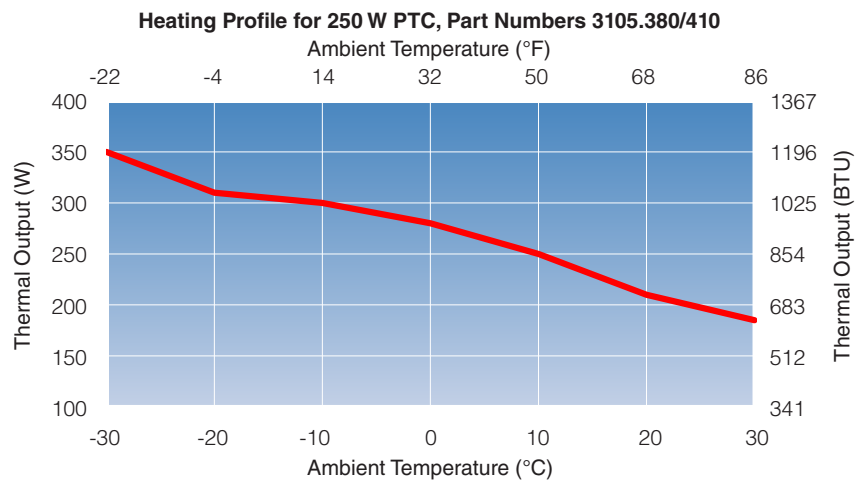
| Part Number                                                | 3105.410                | 3105.380        | 3105.420                 | 3105.390        | 3105.430                 | 3105.400        |
|------------------------------------------------------------|-------------------------|-----------------|--------------------------|-----------------|--------------------------|-----------------|
| Height inches (mm)                                         | 7.9 (200)               |                 |                          |                 |                          |                 |
| Width inches (mm)                                          | 4.1 (103)               |                 |                          |                 |                          |                 |
| Depth inches (mm)                                          | 4.1 (103)               |                 |                          |                 |                          |                 |
| Rated operating voltage Volt, Hz                           | 110 V, 50/60 Hz         | 230 V, 50/60 Hz | 110 V, 50/60 Hz          | 230 V, 50/60 Hz | 110 V, 50/60 Hz          | 230 V, 50/60 Hz |
| Continuous thermal output at T <sub>U</sub> = 50 F° (10°C) | 853 (250) <sup>1)</sup> |                 | 1365 (400) <sup>1)</sup> |                 | 2730 (800) <sup>1)</sup> |                 |
| Pre-fuse T                                                 | 4 A                     |                 | 6 A                      |                 | 10 A                     | 6 A             |

**Accessories**

|                                  |          |
|----------------------------------|----------|
| Encl. internal thermostat        | 3110.000 |
| Hygostat                         | 3118.000 |
| Digital temp. display/thermostat | 3114.200 |

<sup>1)</sup> Thermal output with fan.

Special voltages available on request. We reserve the right to make technical modifications.



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