Comfortline High Temperature Radiant Heating System - Specification.

This section relates to the supply and installation of **Comfortline High Temperature Radiant** Heating Systems for heating and control for domestic, residential, education, community, commercial and industrial applications.

**1. DOCUMENTS.**

* 1. **Product and installation Compliance Documents.**

Compliance with the following documents is required during the installation, commissioning, and testing of installed Devi products:

[NZBC G9](http://www.masterspec.co.nz/redirect.aspx?pl=251)/VM1 Electricity, 1.0 Electrical installations.

AS/NZS 60335-2.30 Electrical safety.

IEC 60730-2-9 DEVIreg thermostat.

AS/NZS4219 Seismic Properties of installation.

### 1.2 **Manufacturers Documents.**

**Comfortline** product information, installation instructions and warranty documents are supplied with all products.

Additional copies of these instructions are available from:

Web: [www.devi.co.nz](http://www.devi.co.nz)

Email: [info@devi.co.nz](mailto:info@devi.co.nz)

Telephone: South Island 03 348 0070 or 0800 468 356

North Island 09 415 7250 or 0800 927 635

1.3 **Warranty –** **Manufacturer/Supplier.**

The manufacturer’s warranty is:

Comfortline CL range of high temperature heaters 5 years.

Comfortline CH range of mid temperature heaters 2 years

Comfortline TH range of high temperature heaters 2 years.

Warranties must be provided using the manufacturer/supplier standard forms as supplied. Warranties commence from the date of installation.

Work undertaken by each subtrade shall be covered by their own warranty.

### 1.4 **Related Works.**

Electrical specification.

Mechanical specification.

Ceiling specification.

**2 CONDITIONS.**

All work and materials must comply with Comfortline installation instructions.

### 2.1 **Qualification.**

### Installation must be undertaken by an electrical or mechanical trades person.

### Refer section 4.6 for livening.

## 3. COMFORTLINE™ PRODUCTS AND DESIGN INFORMATION.

Substitutions are not permitted to any Comfortline heaters or associated products, components, or accessories.

Comfortline radiant heating systems are European manufactured heaters made to stringent quality procedures in ISO9000 registered facility.

High temperature radiant heaters shall have 40mm thick ceramic wool insulation in back of the heater and 15mm thick insulation in sidewall of heater.

Low temperature radiant heaters shall have fiberglass wool insulation in back of the heater.

**Heat models.**

CL08 High temperature 850W panel, IP44 Ceiling or wall mounting.

CL+09A High temperature 900W panel, IP44 Ceiling or wall mounting.

CL+12A High temperature 1200W panel, IP44 Ceiling or wall mounting.

CL+18A High temperature 1800W panel, IP44 Ceiling or wall mounting.

CL+24A High temperature 2400W panel, IP44 Ceiling or wall mounting.

CL+30A High temperature 3000W panel, IP44 Ceiling or wall mounting.

CL+36A High temperature 3600W panel, IP44 Ceiling or wall mounting.

CH400 Mid temperature 400W panel, IP44 Under pew mounting.

CH600 Mid temperature 600W panel, IP44 Under pew mounting.

TH1500 High temperature 1500W panel, IP45 Outdoor terrace heater.

(Delete heater models that are not applicable then delete this line).

**Mount accessories.**

12V541786 CL+ Wall tilt/angle bracket

12V541801 Recess frame for CL+09A and CL+12A

12V541800 Recess frame for CL+18A and CL+24A

CL+09-12 Grill Protective guard for CL+09A and CL+12A

CL+18-24 Grill Protective guard for CL+18A and CL+24A

CL+30-36 Grill Protective guard for CL+30A and CL+36A

THBracket(2) 2 panel stacking bracket for TH1500 heaters.

THBracket(3) 3 panel stacking bracket for TH1500 heaters.

(Delete accessory models that are not applicable then delete this line).

**Thermostat.**

DEVIreg™ 530  Thermostat, Manual, 15A with floor sensor.

DEVIreg™ 531 Thermostat, Manual, 15A with air sensor

DEVIreg™ Touch (White) Thermostat, Programmable, 16A, air and/or Floor sensor.

DEVIreg™ Touch (Black) Thermostat, Programmable, 16A, air and/or Floor sensor.

DEVIreg™ Smart (White) Thermostat, WiFi Programmable, 16A, air and/or

floor sensor.

DEVIreg™ Smart (Black) Thermostat, WiFi Programmable, 16A, air and/or

floor sensor.

DEVIreg™ 330 Thermostat, Manual, Distribution board mount.16A with remote wall mount room sensor.

DEVIreg™ Multi 7 Channel distribution board mounted programmable.

Thermostat with sensors and BMS/Bacnet interface.

(Delete thermostat models that are not applicable then delete this line).

## 4. EXECUTION.

### 4.1 **Confirm Layout.**

Before commencing work confirm the proposed location of heaters and controls.

### 4.2 **Co-ordinate Services.**

Co-ordinate and co-operate with other sub-trades to avoid any conflict with the installation of the system.

4.3 **Preliminary Work.**

Prewire electrical cabling according to the heating design.

### 4.4 **Installation of Comfortline High Temperature Heaters.**

Install the Comfortline high temperature radiant heaters in accordance with design and the supplied installation instructions.

When installing, wear supplied gloves. Do not touch heater lamella with bare hands or with soiled cloves or cloth.

If high temperature heaters are to be installed on walls, use proprietary wall/tilt bracket.

If heaters are to be recessed into a plasterboard (or similar form) ceiling, use Comfortline proprietary recess frame.

If a protective guard is to be fitted, use Comfortline protective guards.

(High temperature radiant heaters shall not be recessed into suspended grid ceiling).

### 4.5 **Installation of thermostat.**

Install thermostat and/or sensors for each zone as per design and in accordance with Thermostat installation instructions.

.

### 4.6 **Test Procedures and Commissioning.**

Refer AS/NZS3000 section 8 Verification.

Complete visual inspection, conductor resistance and insulation resistance test prior to before livening the circuit. Record the tests in the record panel in the installation manual. The manual is to be given to whomever the electrician is contracted.

A registered electrician must complete the test result panel and associated Certificate of Compliance.

### 4.7 **Control Settings.**

For non-programmable thermostats, set to minimum and switched to off.

When programmable or intelligent thermostats are installed, the correct day and time must be programmed then left in manual mode.

### 4.8 **Cleaning.**

Check site for safety and remove all surplus materials.