



Questions and answers

Q1. Can the radiant panel be used on its own?

A. Yes - DuoHeat is designed to be flexible, so on a cool spring or summer evening the radiant panel can be used to take the chill off a room, simply by switching off the off-peak supply.

Q2. Can a DuoHeat Radiator be used to replace a storage heater?

A. Yes - DuoHeat is designed to heat a single room or be used as part of a whole house system, so using it to replace one or more storage heaters is no problem. Remember though that the DuoHeat Radiator needs to be connected to two supplies - in order for the radiant panel to operate it will need to be connected to the standard electricity supply.

Q3. Is the DuoHeat Radiator compatible with all electricity tariffs?

A. Yes - the DuoHeat Radiator has been developed to work with all electricity tariffs. Normally Economy 7 is used, but look out for tariffs that give a boost of low cost energy in the afternoon or evening as these will improve the economy and performance of DuoHeat even further.

Construction Details

Durable polyester coated steel.

Internal Details

1. Heat retention

High density bonded magnetite energy retention cells.

2. Heating elements

Printed circuit thin film element fixed to front panel inner, covering the whole fascia.

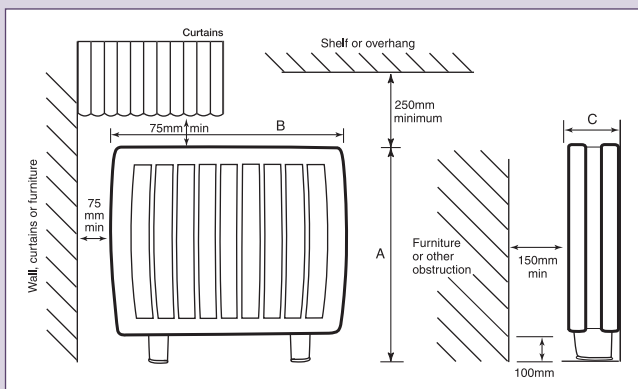
Two, three or four (depending on model) mineral filled incoloy sheathed units of 0.64kW.

3. Thermal insulation

Front and rear panels: microporous silica

Top and ends: resin free ceramic fibre

Base: calcium silicate slab



Model No.	Height A	Width B	Depth C	Weight (installed)
Duo300i	712mm	600mm	130mm+10mm	65kg
Duo400i	712mm	830mm	130mm+10mm	94kg
Duo500i	712mm	1060mm	130mm+10mm	122kg

Model No.	Nominal Output	Charge Acceptance	Input Rating (Off Peak Supply)	Input Rating (Radiant Element)
Duo300i	0.7kW	8.96kWh	1.3kW	0.3kW
Duo400i	1.1kW	13.44kWh	1.9kW	0.4kW
Duo500i	1.5kW	17.92kWh	2.6kW	0.5kW

Controls

1. User controls

Integral user adjustable electronic room thermostat controlling film element operation. Set via LED membrane display on top of heater. Child lock facility.

2. Input charge control

Pre-set hydraulic close differential room temperature sensing thermostat with external sensor. Limits charge in relation to room temperature during charge period.

3. Thermal safety devices

Automatic reset core limit thermostat and manual reset over temperature cut out. Thermostat on front panel limits surface temperature to 75°C maximum.

4. Central control

Enabled for pilot wire connection as standard. Requires optional receiver for Mains Borne Signalling connection (RX03002).

Functions:

Controller Mode	Heater Function
Comfort	Heater functions at thermostat setting
Setback	Film element controlled at pre-set minimum setting
Frost protection	No input charge accepted. Film element maintains frost protection
Off	Heater does not function

Installation

1. Assembly

Removable front panel with wire free low voltage connection to main body.

2. Supply connection

Off peak supply: Located at front left hand end of base. Pre-wired. Peak supply: Located at front right hand end of base. Pre-wired with 4 core cable (for pilot wire control).

3. Feet

Plastic moulded with snap fit to heater.