ATC **Sun Ray RF** Electric Thermal Radiators

Experience Unique

We at ATC are delighted to introduce the Sun Ray RF range of Thermal Electric Radiators. Our in-house experts bring experience, knowledge and passion to the product creation process of the RF range. They have ensured the RF range incorporates unique advanced technology and controllability in one radiator, leading the way in sustainable living.

- Stand-alone control on Radiator
  – Manual operation
  – Digital Program control
- Wireless Control via Gateway and App
- Voice Control compatibility with Amazon Alexa and Google Home
- Low Surface Temperature option

EcoDesign Lot 20 Compliant

wireless communications

3 YEAR WARRANTY ELECTRONICS

20 YEAR WARRANTY ALUMINIUM

Sun Ray RF is Greener

The SUN RAY RF is the most innovative heater manufactured. It incorporates advanced technology that ensures excellent energy efficiency along with comfort and design for every application.

Enjoy more precise temperature control

PID Intelligent Control along with the Triac electronic thermostat maintains the set room temperature within 0.2C. Only the electricity required to maintain the program temperature is used, which gives you the most economical heater available.

Adaptive start control function cuts power consumption

When running in Program mode the Sun Ray RF measures the room temperature before the starting time and anticipates the need for heating. The Sun Ray RF knows how long it takes to heat up the room that it is installed in and gradually brings the room to temperature so it is warm when your time setting starts. Improving room comfort and energy efficiency.

Intelligent open window function cuts power consumption

The Sun Ray RF can sense when there is a sudden fall in temperature caused by open windows and will after 20 minutes suspend the heating program to prevent expensive wastage of energy.

Two program options and three operating modes

Within the two program options of digital or manual there are three operating modes, comfort, eco or frost protection. The Sun Ray RF has an operation mode that suits every routine..

Product Description

Product Features

- Simple to Program and operate
- Large easy to Read TFT LCD Display
- Operating Modes – Eco – Comfort – Frost Protection
- 10 Year Battery Backup for Program and Time
- Triac Electronic thermostat – accurate to 0.2c
- PID Intelligent Control – improves energy efficiency
- Open Window Technology –improves energy efficiency
- Adaptive Start feature in Program mode – improves energy efficiency
- Standalone control on Radiator or Wireless Control via Gateway and App
- Voice Control compatibility with Alexa and Google
- Low Surface Temperature option
- Universal Wall Brackets for Quick Installation
- Filled with High Quality Thermal Emission Oil – Quick Heat Up Time

Approvals

- Complies with LOT 20 Eco-Design Directive 2009/125/EC
- CE and RoHS Approved
- Complies with EN 60335-1, EN 60335-2-30

Warranty

- 3 Year warranty on Electronics
- 20 Year Warranty on Aluminium

Technical Details
ATC **Sun Ray RF** Electric Radiator

Product Code	RF350	RF500	RF750	RF1000	RF1250	RF1500	RF1800
Number of Fins	3	4	6	8	10	12	12
Power W	350	500	750	1000	1250	1500	1800
Insulation Class	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
IP Protection	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Voltage (AC)	230	230	230	230	230	230	230
Dimensions (H x W x D) cm	58x34x10	58x42x10	58x58x10	58x74x10	58x90x10	58x106x10	58x106x10
Approvals	CE,Rohs	CE,Rohs	CE,Rohs	CE,Rohs	CE,Rohs	CE,Rohs	CE,Rohs
Weight (kg)	6.9	8.8	12.5	16.4	20	23.9	23.9

RAL9016

ATC Product Catalogue 2019

Manual Control

The Sun Ray RF Radiator designed with the installer and end user in mind.

The Sun Ray RF control panel is equipped with a large TFT LCD display with clear definition of each mode or function. There are 4 buttons for easy operation and control as listed below.

Screen

Change modes, confirms days, hours, etc.

Touch once for boost

Hold to enter menu

Multi-Function, change temperatures, days, hours, etc.

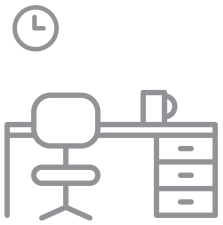
Take Control using our App

Apartments
Change settings remotely

Hotels & Hostels
Controllability from reception

Download
for FREE on your mobile, tablet or computer device

- Programmable 24/7 from anywhere in the world
- 3 program modes: **Comfort, Eco & Frost Protection**
- Can control up to 30 radiators
- Each radiator can be named
- Voice Control
- Whole house energy usage with optional RF-Monitor



Offices
Smart design

Holiday Homes
Frost protection for piece of mind

Voice Control

amazon alexa

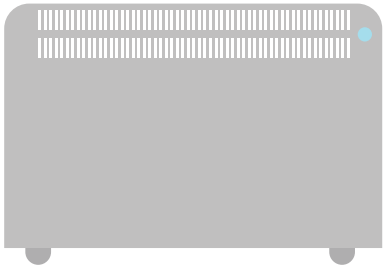
Google HOME

Download on the App Store

Google play

26.6%
SAVING

Energy Cost Comparison
Sun Ray RF vs Storage Heaters



Sun Ray RF Radiator	
Area 18m²	1800w
Kw cost per hour1	€0.206
Total consumption per day	€2.22
Total Cost Per Month	**€66.74**

Storage Heater	
Area 18m²	4250w
Kw cost per hour1	€0.1018
Total consumption per day	€3.03
Total Cost Per Month	**€90.90**

The above figures are based on a 7 hour heating cycle using electricity on the night rate for the storage heater. The Thermal Radiator is used 6 hours per day, 2 in the morning and 4 in the Evening on the standard day rate. The Calculation does not take into account the additional requirement for boost heating in the evening for the storage type heaters. Heaters are sized based on standard Sun Ray sizing metrics.

Lower Bills
€66.74
Lower Energy Consumption

Higher Bills
€90.90
Higher Energy Consumption

1 Day (0.2060), Night rate(0.1018) on the ESB Standard Night saver Plan. Standing charge not included.

ATC Product Catalogue 2019

Experience Unique

We believe that ease of use is most important to the installer and the end user. The Sun Ray RF is a standard thermal radiator as well as being a radiator that has many advanced features for many applications.

- Two program options – Digital or Manual with 3 operating modes in either option: Comfort mode, Eco mode or Frost protection mode.
- Wireless capability – the radiators can be wireless controlled through RF (radio frequency) technology using the Gateway. The radiators can then be controlled from anywhere in the world through the App. The Gateway can control up to 30 radiators in one building and can be installed after the initial installation.
- Voice control compatibility with Amazon Alexa and Google Home.
- LST (Low Surface Temperature) – the radiators can be programmed as low surface temperature radiators via the settings in program.

ATC Product Catalogue 2019

Sun Ray RF Radiator Sizing Guide

This Sizing Guide is to assist you in selecting the correct Sun Ray RF Radiator for the room/area you need to heat. Calculate the floor area (m^2) of the room/area and the total length (m) of the outside wall. Using the floor area calculated (m2), select the nearest size from the left hand side of the table and match this with the length of the outside from the top of the table. This will tell you what size Radiator is required to heat the room/area. Please note this is a guideline only and for more accurate information please contact our Technical Department.

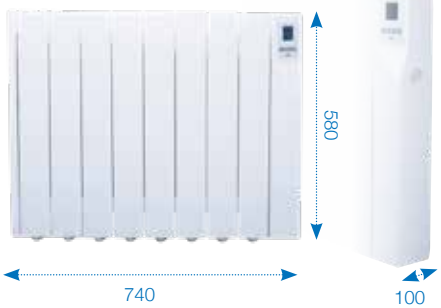
Important Information: In many cases the RF1800,1800 watt radiator in our range can reduce the requirement for two radiators in some locations leading to reduced material and installation costs.

Floor Area in m^2	Temperature Required(°C)	Total Length of External Wall in Meters												
		1.5	2	3	4	5	6	7	8	9	10	11	12
Up to $3m^2$	21°C	**A**	**A**	**B**	**B**	**B**	**C**	–	–	–	–	–	–
Up to $6m^2$	21°C	**A**	**B**	**B**	**C**	**C**	**C**	**D**	**D**	–	–	–	–
Up to $9m^2$	21°C	**B**	**B**	**C**	**C**	**C**	**D**	**D**	**D**	**D**	1x**E** or 2x**C**	–	–
Up to $12m^2$	21°C	**B**	**C**	**C**	**C**	**D**	**D**	**D**	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**
Up to $15m^2$	21°C	**C**	**C**	**D**	**D**	**D**	**D**	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**
Up to $18m^2$	21°C	**C**	**D**	**D**	**D**	**D**	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**
Up to $21m^2$	21°C	**D**	**D**	**D**	**D**	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**
Up to $24m^2$	21°C	**D**	**D**	**D**	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**
Up to $27m^2$	21°C	**D**	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	2x**D**
Up to $30m^2$	21°C	**D**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	1x**E** or 2x**C**	2x**D**	2x**D**	2x**D**

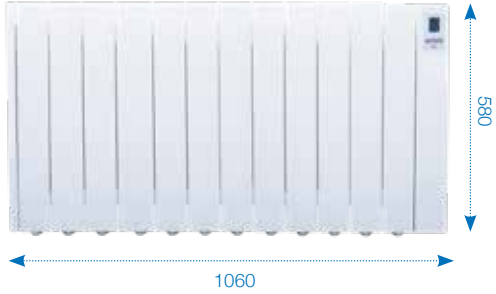
A RF500

B RF750

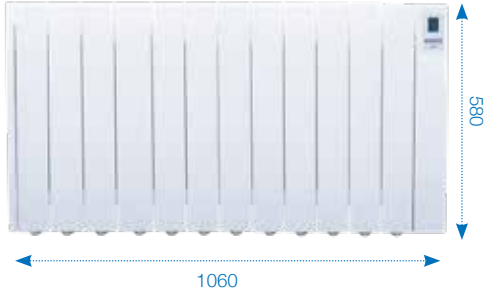
C RF1000



D RF1500



E RF1800



Case Study **Edinburgh Backpackers:** Sun Ray RF Thermal Electric Radiators

The Edinburgh Backpackers Hostel is located in the centre of Edinburgh in the old town area – a traditional building with high ceilings, spread over seven floors. The rooms are set out in dormitory style, with between 6 to 12 beds in each room, and the hostel is busy all year around.

Background

Previously there were either electric storage heaters and/or panel heaters installed in the dormitories. This type of heating was not easy to control and the energy costs were very high.

The Project:

The client required a heating system that was easy to control and would provide reduced energy costs, while providing a high level of comfort to the guests.

The Proposal:

A trial was offered to use ATC's Sun Ray Wi-fi radiators throughout the hostel, with two specific areas to be measured before a final decision on purchase was reached:

- To review the energy costs in a specific area of the building over a set time.
- To examine the ease of controllability the system had.

"Our energy costs have reduced by over half"

Client comments:

"The radiators were very easy to install and the programming through the app was simple. As it was an old building with concrete walls and floors, we were initially sceptical about the potential success of the Wi-Fi aspect of the Sun Ray. The unique radio frequency technology in the Sun Ray system ended up providing us with strong connectivity between all of the radiators despite the concrete throughout the building, and without disrupting the existing Wi-Fi system.

We are now installing the Sun Ray Wi-Fi radiators in a new building project as well, with no connectivity issues whatsoever. Overall, we are very pleased with the Sun Ray Wi-Fi Radiators, as the controllability of the radiators through our mobile devices is excellent & the support from the ATC Technical team was invaluable in setting up the system so easily. More importantly, our energy costs have reduced by over half, which is very significant for this type of business."

Scott Harrower, Liberton Developments

Case Study **Scape Aungier Street:** Sun Ray RF Thermal Electric Radiators

Client:

Scape Ireland Student Accommodation

Client Requirements

International Firm Scape have brought their novel Student Accommodation approach to Dublin with a refurbishment of buildings in the City Centre.

The development includes 300 en-suite student rooms, a gym, recreation areas and roof gardens. The triangular-shaped site is a composite of no less than 17 different properties.

ATC worked closely with Scape and their partners, Contractor John Paul Construction, Engineers JV Tierney and Architects JSA, to offer an efficient and cost effective heating solution for all properties.

Product Criteria:

- Controllability – the heaters had to be simple for students to use and accurately controlled
- Efficiency – due to the nature of the accommodation, minimising running costs was very important
- Wifi-enabled for easy of controllability and also to suit the demographic of tenant
- Some areas required Low Surface Temperature Heaters
- Aesthetically pleasing to fit with the Architect's vision for the Project

Product Evaluated and Chosen:

The Sunray RF Thermal Electric Heater met the requirements of this project. The landlord mode was deemed to be a key factor in choosing this heater. This feature allows the heaters to be programmed and controlled off-site by the bill payer. This enables the landlord to monitor the temperature for energy efficiency and avail of cost savings.

"We had to work very closely with ATC in order to bring this part of the project in on budget and on time. As we had very specific requirements it was great that ATC had the product range, knowledge and flexibility to meet our demands. We were very impressed when we visited the showroom and saw the product options on working display"

Iain Fitzsimons, Design Engineer, John Paul Construction

Years: 2019-2020