

atc Lifestyle Electric Thermal Radiator



Complies with
Lot 20 Eco-design
Heating Directive
'2009/12/EC'.
Effective January
2018

10
YEAR warranty
ALUMINIUM



Euro Edition
Issue 1 August 2017

atc
26
YEARS

atc More than 26 Years' Experience

atc is established since 1991 and over the past 26 years we have evolved into a solution oriented company, innovating, developing and distributing energy efficient products to suit market needs.

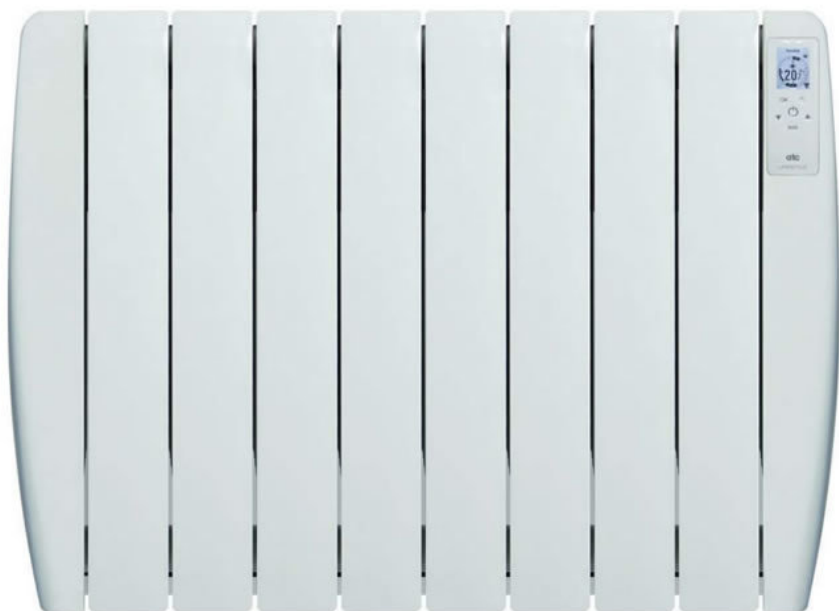
As an ISO 9001:2008 Quality Approved Company since 1995 our core values of Quality, Service and Customer Care are primary to our day to day business activities.

It is our policy to provide our customers a consistently efficient service by operating as a Knowledgeable, Adaptable and Reliable Company.

- | | |
|------------------|---|
| Knowledge | Through Personnel and Customer Training |
| Adaptable | Meeting Customer Needs |
| Reliable | Through Consistent Service |



atc Lifestyle Electric Thermal Radiator



Experience the Difference

The Lifestyle Radiators are modern in design and aesthetically pleasing to the eye. Manufactured in Europe the Lifestyle is a unique electric radiator that is stylish, energy efficient, easy to operate and install.

Manufacturing Process

The Lifestyle Radiators are manufactured at our factory in Europe. The process encompasses the manufacture of the radiator elements from raw aluminium through to the finished product. At the end of the process our Quality Control System ensures that every radiator is pressure tested and visually checked before being boxed for shipping.

Innovation and Design

Our in-house team of experts developed the Lifestyle programme to provide unique and simple to use controls for both the installer and end user. All components used in the Lifestyle are designed and manufactured in Europe. The programme uniquely allows for Digital or Manual control options in the settings.

Low Energy

The Lifestyle Radiators are designed to be the most energy efficient radiator available. There are various features and controls built into the radiator programme including PID Intelligent Control that ensures accurate temperature efficiency to 0.2C. This technology is far superior to other forms of heating such as traditional storage heaters and dry element radiators.

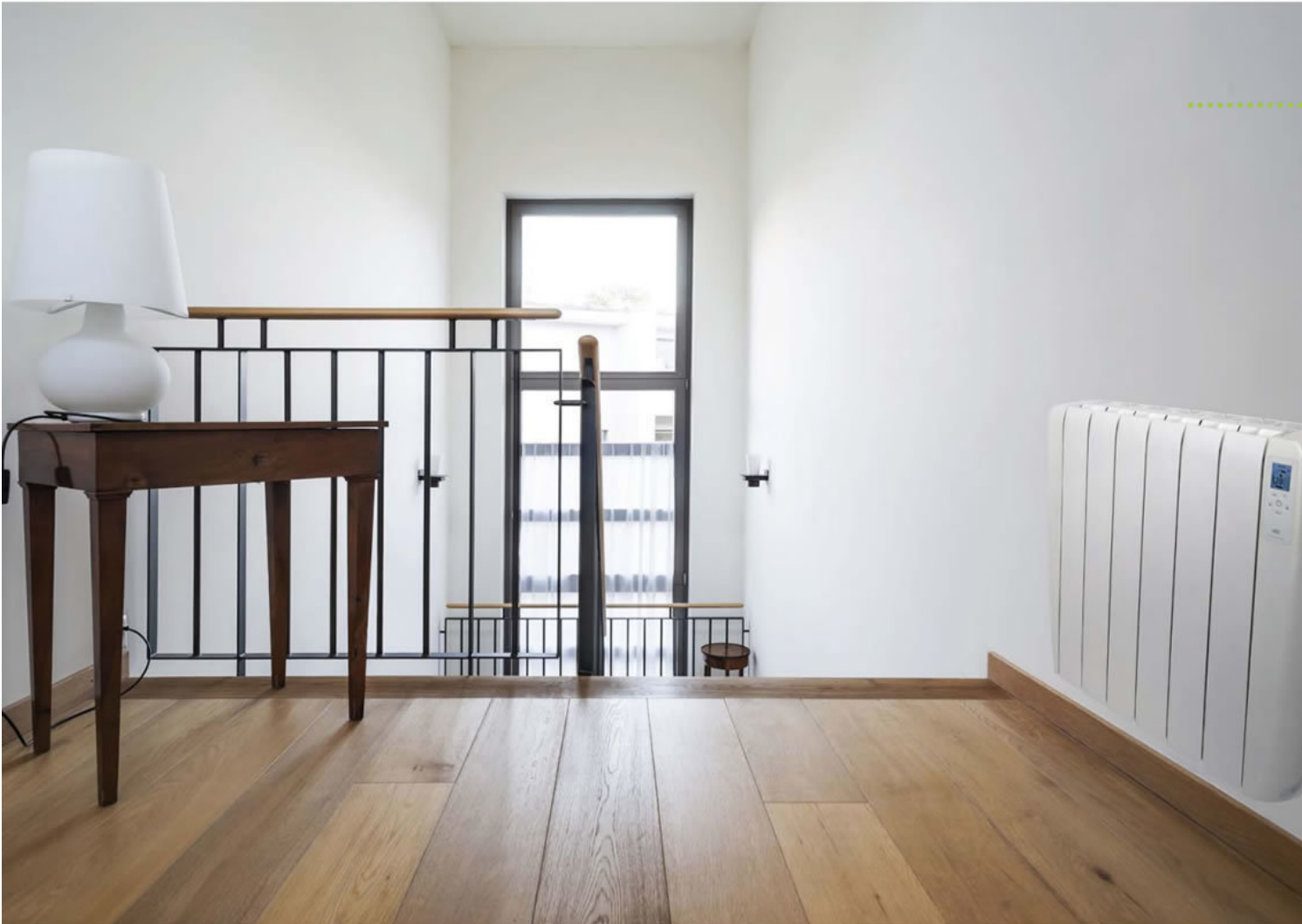
Real Comfort

The Lifestyle Radiators provide comfortable and effective heat in the room. The air is naturally heated creating an unforced convection throughout the room with a high proportion of radiant heat giving ultimate user comfort for any lifestyle.

Ease and Cost of Installation

The Lifestyle Radiators are easy and cost effective to install. Compared to other heating systems such as gas or water with high costs of installing pipe-work and expensive boilers the Lifestyle provides an efficient and cost efficient installation option for the end user and installer.





Greener

Beyond comparison for energy efficiency.
The Lifestyle incorporates advanced technology and controllability leading the way in sustainable living.

0.2°C ENJOY MORE PRECISE TEMPERATURE CONTROL

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

ADAPTIVE START CONTROL FUNCTION CUTS POWER CONSUMPTION

When running in Program mode the Lifestyle measures the room temperature before the starting time and anticipates the need for heating. The Lifestyle 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 Lifestyle 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.

HEAT WHEN YOU WANT IT 24 / 7

The Radiator can be programmed to come on every day, in 30 minute intervals all year round.

TWO PROGRAMME OPTIONS AND THREE OPERATING MODES

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

MANUAL OVERRIDE WITH COUNT DOWN TIMER

Unexpected events happen, sometimes you need to change your heating without changing your program. With the manual mode if you're home early and want a boost to the heat, with manual mode you can easily bring your heating on without having to change your program. If you are going away you can set your heater to be off whilst you are on holidays and come back on the day you return.



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KEY FEATURES

- Simple to Programme and operate
- Large Easy to Read TFT LCD Display
- Operating Modes – Eco – Comfort – Anti Frost
- 10 Year Battery Backup for Programme and Time

TECHNICAL SPECIFICATIONS

- Triac Thermostat – Accurate to 0.2°C and Silent
- PID Intelligent Control – improves Energy Efficiency
- Open Window Technology – improves Energy Efficiency
- Adaptive Start feature in Programme mode – improves Energy Efficiency
- Universal Wall Brackets for Quick Installation – Locks bottom of Radiator
- Elements joined by Unique Patented Silicone Joints – Longer Life
- Filled with High quality Thermal Emission Oil – Quick Heat Up Time

APPROVALS

- Complies with Lot 20 Eco-design Heating Directive 2009/EC/EC. Effective January 2018
- Complies with EN 60 335-1; EN 60 335-2-30
- CE Approved

TECHNICAL DETAILS

atc LIFESTYLE Electric Radiator					
Product Code	LS500	LS750	LS1000	LS1500	LS1800
Power W	500W	750W	1000W	1500W	1800W
Number of Fins (elements)	4	6	8	11	13
Dimensions (H x W x D) mm	581x468x100	581x628x100	581x788x100	581x1028x100	581x1188x100
Voltage (AC)	230	230	230	230	230
Insulation Class	1	1	1	1	1
IP Protection	IP24	IP24	IP24	IP24	IP24
Approvals	CE	CE	CE	CE	CE
Weight	9kgs	12.6kgs	16kgs	21.4kgs	24.8kgs



Heating Design Service

To ensure the most energy efficient and comfortable method of heating an area or space it is important that a number of criteria are taken into consideration. Such as, room dimensions, glazed areas, insulation levels and heat levels in adjacent areas.

Our dedicated Heating Design Team provides a full heating design and heat loss calculation to determine the correct solution for your building.

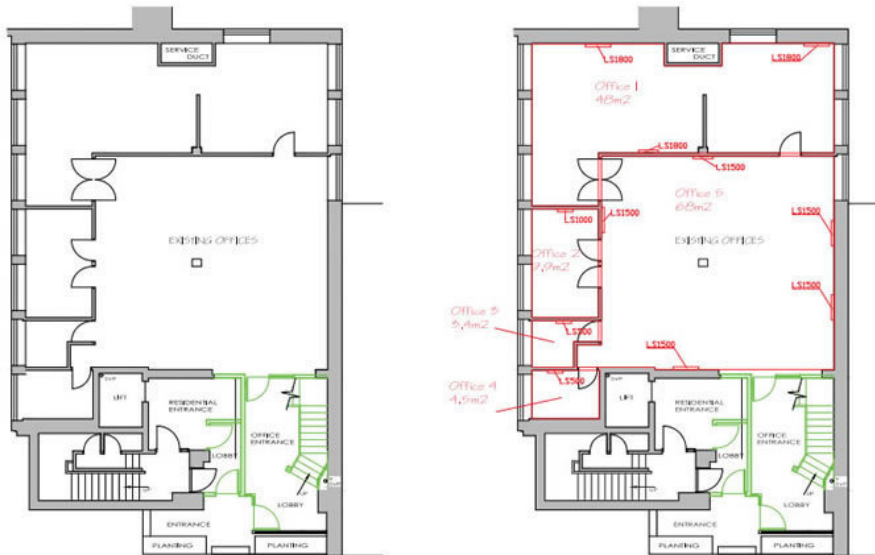
Ideally we would receive a CAD drawing similar to that below.

From this drawing we will;

- Use the measurements from each room to calculate the area and volume of each space.
- This information will determine the amount of energy required to heat the area.
- From this we can decide on the type and amount of heaters that should be installed.
- We can also provide a Heating Consumption Cost Analysis for the area based suggested times and geographical areas.



Sample CAD drawing from customer and CAD drawing from atc showing radiator sizes and locations.



atc Lifestyle Oil Filled Radiator Sizing Sheet

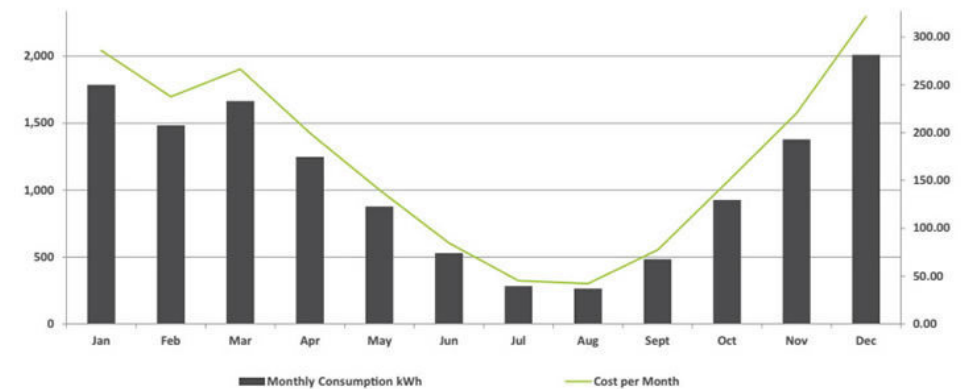
Room Name	W (m)	L (m)	H (m)	Area (m ²)	Heat Input (W)	atc Lifestyle Product Code	Quantity Required
Office 1	48	1	2.7	48	5400	LS1800	x 3
Office 2	9.9	1	2.7	9.9	1000	LS1000	x 1
Office 3	3.4	1	2.7	3.4	500	LS500	x 1
Office 4	4.5	1	2.7	4.5	500	LS500	x 1
Office 5	68	1	2.7	68	7500	LS1500	x 5
						Total Heat Input(W)	Total Radiators
						14900W	11

Heating Consumption Guideline for Project Area (Dublin)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Degree Days <15.5°C	320	266	298	223	157	95	51	47	87	166	247	360
The Degree Days figures show the number of hours in a month where the heating system needs to be turned on, they are based on the historical recorded temperatures in the area.												
Monthly Consumption kWh	1,786	1,484	1,665	1,248	877	529	283	264	484	926	1,378	2,010
Electricity Price kWh	€0.16c/kWh											
Cost per Month	285.78	237.51	266.41	199.66	140.36	84.63	45.30	42.32	77.48	148.11	220.52	321.54
TOTAL Annual Cost €					€2,069.61			TOTAL Annual Consumption (kWh)			12,935 kW	

These costs are based on 6 hours usage, 6 days a week and room temperature 21°C

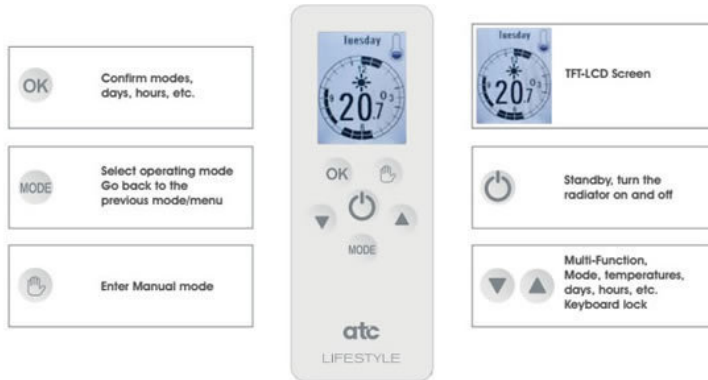
Energy Consumption / Cost Estimate Graph



Easy to Programme and Control

The Lifestyle Radiator designed with the installer and end user in mind.

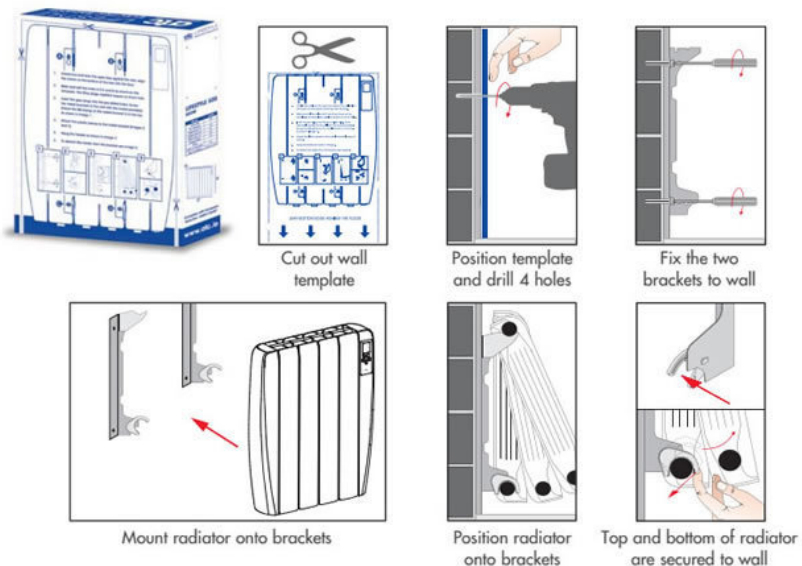
The Lifestyle control panel is equipped with a large TFT LCD display with clear definition of each mode or function. There are 6 buttons for easy operation and control as listed below.



Simple Installation

The Lifestyle Radiator designed with the installer and end user in mind.

The installation of the radiator is simple and quick. There are just 2 universal wall brackets to be attached to the wall.



atc LIFESTYLE ELECTRIC RADIATOR SIZING GUIDE

This Sizing Table is a guide to assist you in selecting the correct LIFESTYLE Radiator for the room/area you need to heat. Calculate the floor area (m x m) 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.

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 3 m ²	21°C	500	500	750	750	750	1000	---	---	---	---	---	---
Up to 6 m ²	21°C	500	750	750	1000	1000	1000	1500	1500	---	---	---	---
Up to 9 m ²	21°C	750	750	1000	1000	1000	1500	1500	1500	1500	1x 1800 or 2x 1000	---	---
Up to 12 m ²	21°C	750	1000	1000	1000	1500	1500	1500	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000
Up to 15 m ²	21°C	1000	1000	1500	1500	1500	1500	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1500
Up to 18 m ²	21°C	1000	1500	1500	1500	1500	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000
Up to 21 m ²	21°C	1500	1500	1500	1500	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000
Up to 24 m ²	21°C	1500	1500	1500	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000
Up to 27 m ²	21°C	1500	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	2x 1500
Up to 30 m ²	21°C	1500	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1800 or 2x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	1x 1500 & 1x 1000	2x 1500	2x 1500	2x 1500

Important Information: In many cases the LS1800, 1800watt radiator in our range can reduce the requirement for two radiators in some locations. Leading to reduced material and installation costs.

