

# Finally a heating system that's more than hot air.

Farho is a European designed low energy consumption heating system. It uses radiant heat, like the sun, to heat you and your family naturally. The radiator design and patented thermo-fluid provides precise room temperatures with the reassurance of low electricity consumption.



## natural heat

Farho radiators achieve excellent performance with optimum electricity consumption by using a combination of radiant and natural convection heating methods.

Radiant heat is multi-directional and functions by warming surfaces and objects in a similar way to the sun. Radiant heat delivers a natural, efficient and healthy form of heating and allows objects the ability to hold their heat for long periods.

Natural convection spreads out warmth into the atmosphere or a room, the warm air rises and cooler, more dense air drops and replaces the warm air, this means Farho heaters can get up to temperature and operate efficiently in a short period of time. The natural convection heat prevents dust and other airborne particles from being spread around, as there is no forced air movement.



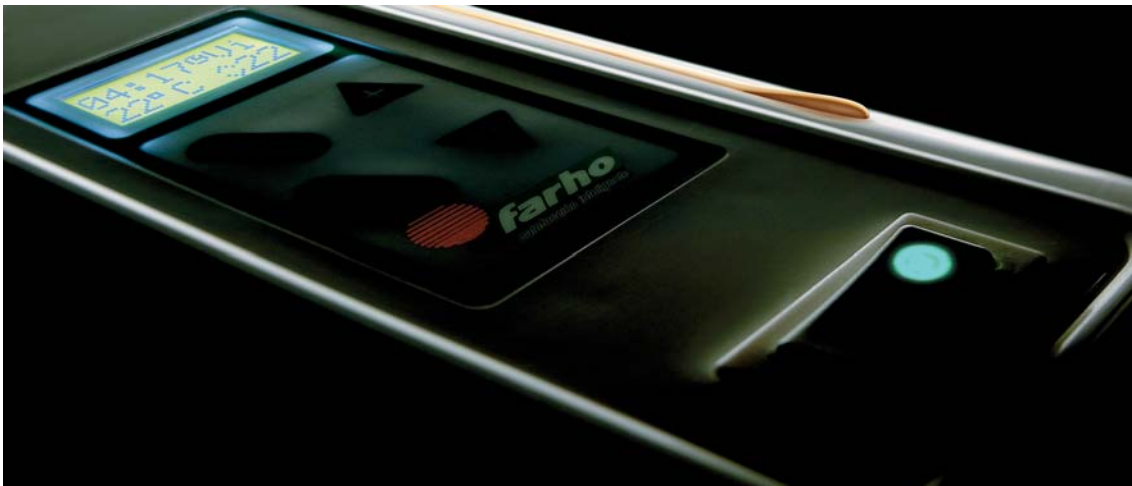
## kind to your family and the environment

Unlike other heating systems Farho will not dampen or dry out the air being heated. Many product also burn the oxygen in a room, which can lead to fumes, odours, staining, and can lead to a person feeling drowsy, but with Farho all you feel is natural warmth.

## smart technology

Our radiators are made from lightweight and maintenance free aluminium. Their design lends itself to high heat emission properties due to their shape and high exposed surface area. The radiators are injected with a superior performance thermo-fluid which has high thermal conductivity and stability properties. The special formula has a low density which enables the radiator to hold more fluid when filled to maximum capacity during the manufacturing process.

The thermo-fluid heats rapidly and expands filling up the whole radiator which reaches temperature in a short period of time. As electricity is used to heat the fluid rather than the air directly, the Farho system is able to maximise energy transformation in accordance with the laws of physics. In order to maintain the required temperature levels the Farho radiator only needs to consume electricity for part of its operational time. All Farho products have been expertly designed and are subject to a host of international patents.



## made to measure heat

When it comes to heating there is simply no substitute for good building design and insulation. The Farho system is the ideal solution for modern homes, apartments, institutions and small to mid-sized commercial units. Please refer to the Product range table on the following page for estimated room size heating requirements. When looking at radiator performance and efficiency it is generally better to have more capacity than less.

## so easy to install

There are no boilers, ducting, piping networks or chimneys when you install Farho. All that's needed are wall brackets (supplied) and a standard power source. This makes a Farho system an excellent choice not just for new homes but also for renovation and retrofit projects.

# the range



## Xana - XP Series

The top of the range model which comes with a digitally controlled Chrono thermostat and the added benefit of programmable time related temperature settings. This means complete 24 hour, 7 day a week operating control of the heating system.



## Elegance - TDE Series

This model is almost identical to the AN series except the thermostat is controlled by digital technology with high precision NTC probe ( $\pm 0.02^{\circ}\text{C}$ ) which displays the room temperature at any given moment.



## Alexandria - AN Series

This model has analogue thermostat control that is easy to use, simply turn the dial to select your desired temperature.



Number of Elements	Heat Input Power W	Heat Output Power W	Dimensions	Approx Room area in m <sup>2</sup> Coldest	Approx Room area in m <sup>2</sup> Warmest
3	330	525	370 x 95 x 590	4,77	5,83
5	550	875	530 x 95 x 590	7,95	9,73
7	770	1.225	690 x 95 x 590	11,14	13,61
9	990	1.575	850 x 95 x 590	14,32	17,5
11	1.210	1.925	1010 x 95 x 590	17,5	21,39
13	1.430	2.275	1170 x 95 x 590	20,68	25,28

# How? Technical Explanation

The main difference with other systems, is that FARHO supplies more quantity of heat with a less electrical consumption.

Farho was the first company in the world to develop this product, after FARHO, many companies tried to copy the system and nowadays you can find similar type of products, but not performance wise.

FARHO gives more heat than any other product in the market. Each fin has an electrical consumption of 110 w per hour and at the same time the heat output is of 175 w per hour.

## How is this achieved?

According to our Aluminium Radiator Supplier Technical Specs, in accordance with EU Standard Norma UNE 9.015-83 by the AENOR, a Standards Authority based in Spain, when a thermal jump of 60 °C is reached inside the radiators, the heat output would be of 175 w per hour per fin. (please find attached Technical Data Sheet)

The most difficult thing and here is where the patent comes into place, is to reach that thermal jump of 60 ° C with only 110w of consumption per element, because in the case that a system or fluid is only able to perform a 50°C thermal jump, the heat output would be reduced considerably.

The following curve shows the performance of the FARHO radiator in terms of time and temperature heating for the thermo-fluid which fills our radiators. This fluid is heated through a resistance inside the radiator bringing the temperature of the fluid to over 80°C and therefore achieving the needed thermal jump of 60 ° C in order to supply a heat output of 175 w per hour per fin.

