

Auspex Radiant Underfloor Heating Home Owners' Guide





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Please ensure the Home Owners' Guide is retained on site for future reference and record of service history.

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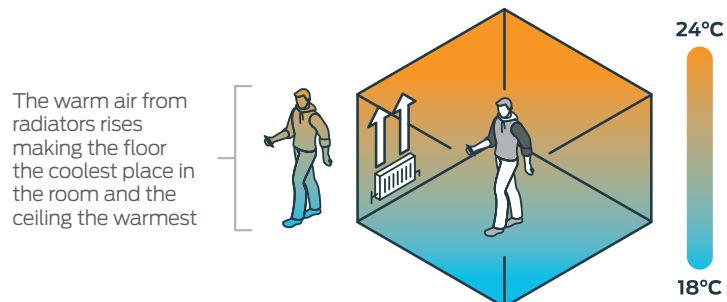
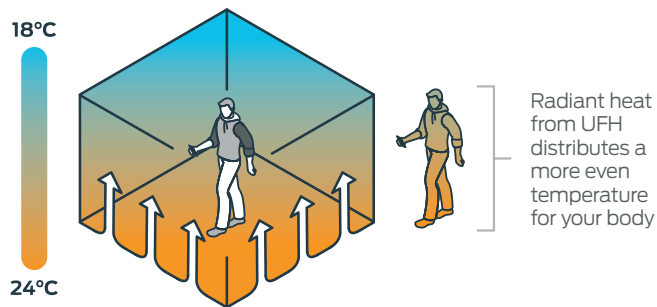
With naturally even radiant warmth, nothing quite compares to the wonderful, luxurious feeling of Auspex Radiant underfloor heating.

Introduction

Underfloor heating is by no means a new idea; over 2000 years ago the Romans used underfloor heating systems with hot air and smoke from furnaces. Today we have refined that concept to a much more cost effective and efficient method of heating.

The underfloor heating system utilises your concrete slab as a large thermal mass creating a giant radiator that effectively emits the radiant warmth into all areas of your home.

To explain **Radiant Heat**, it's much like the warmth experienced on a cold day when you stand in direct sunlight even through the air temperature is much lower. With this method of heating, thermal comfort is achieved at much lower temperatures leading to fuel cost savings.



How To Use Your System

An Auspex Radiant heating system is intended to be active throughout the entire heating season, maintaining a comfortable even temperature within your building. On first cold start up you can expect to start feeling the warmth within **4-6 hours**, with the system stabilising over a 48-hour period depending on building conditions.

The first principal to understand with your underfloor heating is not to use it like an air-forced heating system; it is more a set and forget approach. Once the thermostat has been programmed to your lifestyle movements it will simply run itself, with the ability to manually over-ride at any point.

When programming your thermostat, it is important to understand the following two terminologies.

ON is the desired temperature you require when the home is occupied. This is generally recommended to be 2°C lower than you would set your blown air system.

SET-BACK is the temperature advised for when the home is unoccupied. This is generally recommended to be 3-4°C lower than your ON temperature, which then only requires a short heat up time, and returns high energy savings.

Using SET-BACK temperatures improves comfort during the night when the occupants are sleeping and lower temperatures are preferred, and improves system efficiency.

With this in mind, it is recommended when setting your thermostat to have it turned **ON** approximately **1 hour** before occupants are requiring the programmed temperature, then **SET-BACK** when it is no longer required i.e. overnight.

Remember, with this style of heating, the drop down in temperature is relatively slow and the times do not need to be too accurate. Over time, some minor adjustment to the programming may need to be done to suit what works best for you and your personal comfort requirements.

Thermostat Programming

It is essential that your system thermostat is operated utilising a constant program control to ensure maximum efficiency and comfort.

When programming your thermostat for the first time or if you haven't had previous experience with a UFH system, it is recommended that you start with the following settings:

ON – 21°C (when occupied)

SETBACK – 17°C (unoccupied)

Below is an example of what your program may look like:

Weekdays (Mon-Fri)			Weekend (Sat-Sun)		
Event	Time	Temp. °C	Event	Time	Temp. °C
1	6:30 AM	21	1	7:30 AM	21
2	8:30 AM	17	2	9:30 AM	21
3	4:30 PM	21	3	4:30 PM	21
4	10:30 PM	17	4	10:30 PM	17

Once the system is in full operation, you may like to alter the preset times or temperatures to suit your personal comfort levels and the building's performance.

The above recommendations are subject to each building's thermal performance and use, this is based on the average Australian home and may vary to some degree.

Maintenance Schedule

An Auspex Radiant underfloor heating system has very few components that require ongoing maintenance, although your heat source's maintenance requirements may vary according to the manufacturer's recommendations. We advise you follow the manufacturer's recommendations for your heat source in addition to these maintenance checks.

As a general rule it would be advised that you engage a qualified underfloor heating technician every 1 – 2 years. It is recommended that your technician checks the following:

1. General review of the entire system
2. Check water pressure of the system
3. Follow heating boiler/heat source manufacturers recommendations
4. Flow rates are at required settings (if a design has been supplied)
5. Check thermostat setting and replace batteries if applicable



Problem Solving

Problem	Cause	Solution
It is warm, but not warm enough	Mix valve temperature setting may be incorrect	Consult your service agent, do not adjust.
	Heat source/boiler temperature setting may be incorrect	Consult your service agent, do not adjust
	Thermostat temperature is not set high enough or on for long enough	Increase thermostat temperature setting, or if only programmed for a short on period, increase the warm up time
No heat is experienced	Check thermostat is calling for heat	Increase temperature demand until flame icon appears
	No water flow/faulty pump/blockage	Consult your service agent
Some rooms are cooler than others	Incorrect flow rate settings	Consult your service agent



Hints and tips

For any other questions about your Underfloor Heating System, contact your service agent.

Commissioning Test Certificate

Site Address: _____

Installers Name: _____

Company Name: _____ Signature: _____

Plumbers Licence No: _____ Ph: _____

Date Commissioned: _____ Auspex Training/Cert. No: _____

Boiler make and model: _____ Water treatment added: YES / NO _____

Circuit Number	Circuit Length	Circuit Location	Actual flow rate l/min

If multiple manifolds are to be used please provide additional data.

Boiler Temperature Setting	
Boiler Pressure Dial Reading (kPa)	
Mixer Temperature Setting (°C)	

Service History

Date	Works Description	Next Due

Notes

Customer Service

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