SOLARENA
ENGINEERING

Radiator Space Heating System



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Radiator
Space Heating System

Overview

A radiator space-heating system provides comfortable, dependable indoor heating by circulating hot water from a boiler or compatible heat source through radiators installed in individual rooms.

The heated radiator surfaces warm the surrounding space through natural convection and radiant heat, creating steady warmth without forced-air ductwork.

Features:

- **Even and consistent room heating.**
- **Quiet operation without fans or forced airflow.**
- **Individual room control using thermostatic radiator valves.**
- **Fast and responsive temperature adjustment.**
- **Reduced air movement and fewer drafts.**
- **Durable, reliable, and easy-to-maintain system.**
- **Wide selection of radiator sizes, materials, and designs.**
- **Suitable for new construction and renovation projects.**
- **Compatible with boilers and appropriately designed heat-pump systems.**
- **Wall-mounted installation helps preserve usable floor space.**



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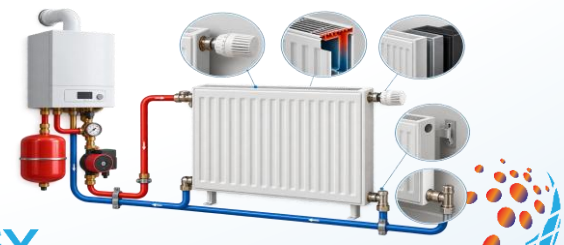
Applications



- **Villas and private residences.**
- **Apartments and residential buildings.**
- **Living rooms, bedrooms, and dining areas.**
- **Offices and commercial spaces.**
- **Hotels and hospitality facilities.**
- **Schools, clinics, and administrative buildings.**
- **New-build central-heating projects.**
- **Renovation and radiator-replacement projects.**

Specifications:

- **System types:** Hot-water hydronic or electric radiators.
- **Heat distribution:** Natural convection and radiant heat.
- **Main components:** Heat source, radiators, pipework, circulation pump, valves, and controls.
- **Controls**: Room thermostats, zone controls, and thermostatic radiator valves**.**
- **Radiator options:** Steel panel, Aluminum, cast iron, or decorative models.
- **Installation:** Wall-mounted or floor-standing, depending on radiator type.
- **Heat-source compatibility:** Boilers and suitably designed heat-pump systems.
- **Design requirement:** Radiator output and system capacity are selected according to each room's heat-loss calculation.



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