

Seika

SPECIALISED SOLUTIONS CATALOGUE

The right system, the right equipment.

Engineering, supply and installation in energy efficiency, fire safety and specialised mechanical systems; in Türkiye and abroad.

Seika Global

seika.com.tr · export@seika.com.tr



SEIKA GLOBAL

Engineering-Led Supply and Installation

Seika Global is an engineering and supply company run by specialist mechanical engineers. In energy efficiency, fire safety and specialised installation projects, we select the right system, supply the equipment and install it with our own team when needed.

Specialist Mechanical Engineers

Every system and every quote is reviewed by an engineer.

Supply and Installation in One

We bring the equipment and, if needed, install it.

Türkiye and Abroad

Seven languages, cross-border supply and installation.

We Find the Hard-to-Find

Direct access to equipment with no distributor in Türkiye.

Three Service Areas

Quick Supply

Material quotes for residential projects.

Engineering Solutions

Energy, fire and specialised mechanical systems.

Design & Consulting

From seismic consulting to detailed design.

Let’s Discuss Your Project and Choose the Right System

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FEATURED SOLUTION

Regulation-Compliant Renewable Energy

Under Türkiye's Energy Performance of Buildings Regulation, from 1 January 2025 buildings with a construction area above 2,000 m^2 must cover at least 10% of their energy demand with renewable energy generated on site. We meet this requirement by combining rooftop PV and heat pumps in one system.

Rooftop PV

Generates the building's own electricity on the roof.

- Rooftop PV Design
- Panel, Inverter and Mounting Supply
- Installation & Commissioning
- PV Fire Suppression Integration

Heat Pumps

Produces heating, cooling and hot water at high efficiency.

- Air-to-Water Heat Pumps
- Hybrid Heat Pump Systems
- Hot Water Heat Pumps
- Underfloor Heating and Fan-Coil Integration

Central Hot Water

Buildings above 2,000 m^2 should also plan a central hot water system supported by renewable energy.

- Heat-Pump-Assisted Hot Water Cylinders
- Solar Thermal Collectors
- Circulation and Control

End-to-End Process

One contact, one responsibility.

- Pre-Assessment and Energy Calculation
- Design
- Equipment Supply & Installation
- Commissioning & Documentation

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ENGINEERING SOLUTIONS

Heat Pumps and Energy Systems

Systems that reduce fossil-fuel dependence in heating, cooling and hot water and lower operating costs, from housing to industry.

Building Heat Pumps

For residential, hotel and commercial buildings.

- Air-to-Water Heat Pumps
- Heating, Cooling and Hot Water in One System
- Underfloor Heating and Fan-Coil Ready

Hybrid Heat Pump Systems

Efficiency without removing the existing boiler.

- Heat Pump and Boiler Together
- Switches by Outdoor Temperature
- Suitable for Retrofit Projects

Hot Water Heat Pumps

For hotels, dormitories, hospitals and housing.

- Lower Consumption than Electric Heaters
- Central and Individual Solutions
- Legionella-Safe Storage

Solar Thermal Systems

Hot water from the sun.

- Collector and Cylinder Systems
- Working Together with Heat Pumps
- Supports the Renewable Hot Water Requirement

Pool Heat Pumps

For outdoor and indoor pools.

- Pool-Water-Resistant Heat Exchanger
- Economical Water Heating
- Longer Pool Season

Waste Heat Recovery

Reuse heat that would otherwise be lost.

- Compressor and Chiller Waste Heat
- Hot Water from Process Waste Heat
- Payback Period Analysis

Process Heat Pumps

High-temperature process water for industry.

- Replacing Fossil-Fuel Boilers
- Food, Textile and Chemical Plants
- Designed Together with Waste Heat

Rooftop PV

Electricity for the heat pump from the roof.

- Integrated Design with Heat Pumps
- Built for Self-Consumption
- Fire Suppression Option

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ENGINEERING SOLUTIONS

Fire and Explosion Safety

From detection to suppression and explosive atmospheres: the right system for each type of risk, supplied and installed.

Fire Detection

Early warning, the right response.

- Addressable and Conventional Systems
- Smoke, Heat and Aspirating Detectors
- Voice Alarm and Warning Systems

Gas and Flame Detection

Measure the risk you cannot see.

- Flammable and Toxic Gas Detectors
- Flame Detectors
- Car Park CO Detection

Spark Detection

Extinguish before a fire starts.

- Dust Collection Lines
- Conveyor and Dryer Lines
- Automatic Suppression

Gas and Foam Suppression

For areas where water would cause damage.

- Electrical and Data Rooms
- Archives and High-Value Areas
- Fuel Storage Areas

Water Mist Systems

Powerful suppression with little water.

- Ship Engine Rooms
- Data Centres and Tunnels
- Safe for Occupied Areas

PV Suppression Systems

For rooftop PV plants.

- Panel and Cable Fires
- Early Detection and Suppression
- Retrofit to Existing PV Plants

Explosion Protection

Against dust and gas explosions.

- Explosion Venting Panels
- Explosion Suppression Systems
- Explosion Isolation Valves

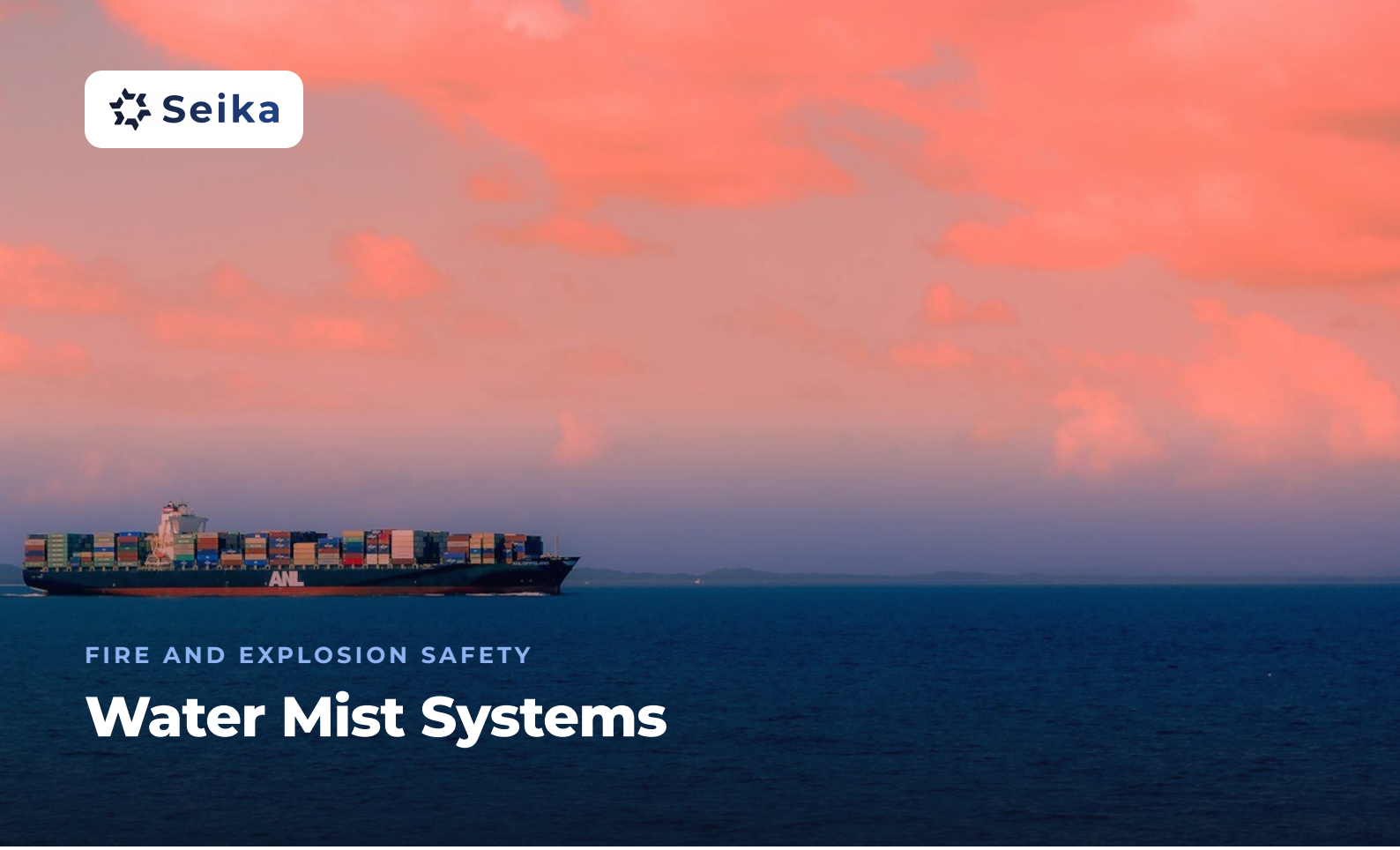
Ex-Proof Products

Equipment for explosive atmospheres.

- Lighting
- Fans and Motors
- Connection and Control Equipment

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FIRE AND EXPLOSION SAFETY

Water Mist Systems

Water broken into very fine droplets at high pressure extinguishes a fire by cooling it and reducing oxygen. It uses little water and keeps water damage to a minimum.

Applications

- Ship Engine Rooms
- Ship Accommodation Areas
- Data Centres and Electrical Rooms
- Tunnels and Plant Areas
- Hotels and Historic Buildings

Advantages

- Very Little Water Needed
- Minimal Water Damage
- Strong Cooling Effect
- Safe for Occupied Areas

What Does Seika Do?

- Risk Analysis and System Selection
- Design
- Equipment Supply
- Installation & Commissioning

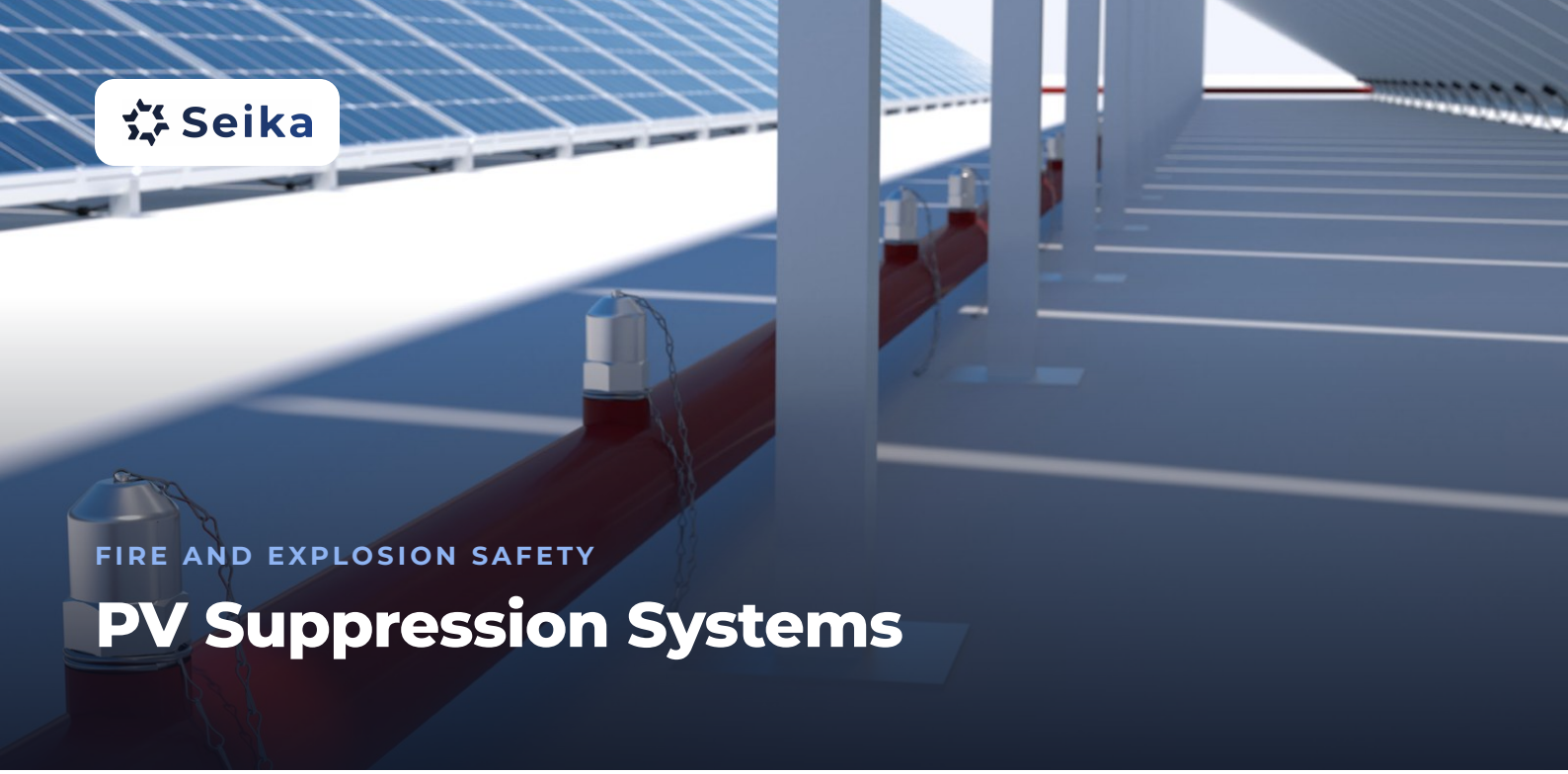
Complete Package

We supply the system together with the pipework.

- Stainless Press-Fit Pipework
- Copper-Nickel Options for Ships
- Pump Unit and Control Panel

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FIRE AND EXPLOSION SAFETY

PV Suppression Systems

On rooftop PV plants, a fire starting in panels and cables can spread quickly to the roof covering and insulation. The VdS-approved PV suppression system detects fire under the panels with linear heat detectors and protects the roof surface with water through special nozzles.

How It Works

Detects, opens, extinguishes.

- Linear Heat Detector Under the Panels
- Automatic Activation via Control Panel
- Water to the Zone via Deluge Valve

Protected Area

Where the fire starts.

- Roof Surface and Cables Under Panels
- Safety Strip Around the Panels
- Optional Panel–Inverter Cable Route

Suitable Roofs

Suitable for most existing roofs.

- Flat and Low-Pitch Roofs
- Membrane, Bitumen and Sandwich Panel Roofs
- Combustible or Non-Combustible Insulation

Applications

Buildings with large roofs.

- Factory and Warehouse Roofs
- Malls and Logistics Centres
- Residential Roofs

System Components

An integrated system.

- Special PV Nozzles
- Galvanised or Stainless Pipework
- Deluge Station and Water Supply

What Does Seika Do?

From design to commissioning.

- Feasibility and System Design
- Structure and Water Supply Checks
- Supply, Installation & Commissioning

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ENGINEERING SOLUTIONS

Ventilation and Smoke Extraction

Systems that control smoke in a fire, keep escape routes clear and supply fresh air to the building: the right fan, the right control, supplied and installed.

Smoke Extraction Fans

Keeps escape routes clear in a fire.

- Roof Smoke Extraction Fans
- In-Line Smoke Extraction Fans
- High-Temperature Fans

Jet Fans

Ductless car park ventilation.

- Car Park Jet Fans
- Daily Ventilation and Smoke Control
- Automatic Operation with CO Detection

Pressurisation

Keep smoke out of stairs and lifts.

- Stair Pressurisation Fans
- Lift Shaft Pressurisation
- Pressure Relief Dampers

Dampers and Control

The right air path at the right moment.

- Fire Dampers
- Smoke Dampers
- Smoke Control Panels

Tunnel Ventilation

For metro and road tunnels.

- Tunnel Jet Fans
- Axial Tunnel Fans
- Tunnel and Station Smoke Control

General Ventilation

Fresh air, low energy.

- In-Line and Axial Fans
- Heat Recovery Ventilation
- Plant Room Exhaust

Industrial Ventilation

For production areas.

- Process Exhaust
- Ex-Proof Fans
- Systems Integrated with Dust Collection

Analysis and Design

Test the system before you build it.

- CFD Smoke Analysis
- Fan Selection and Sizing
- Commissioning and Testing

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ENGINEERING SOLUTIONS

Mechanical Systems

Specialised installations and hard-to-source equipment: we find the right product, design it, supply it and install it.

Dust Collection and Filtration

A clean and safe production area.

- Cartridge and Bag Dust Collectors
- Ducting and Extraction Systems
- With Spark and Explosion Protection

Stainless Press Fittings

Weld-free, fast, clean.

- Potable Water to Steam
- Stainless, Copper and Copper-Nickel
- Options for Marine Installations

Stainless Drainage Systems

Hygiene and durability.

- Grey, Black and White Water
- Gravity and Vacuum Drainage
- Ships and Industrial Kitchens

Equipment Not Available in Türkiye

We find what has no distributor.

- Direct from Manufacturers
- Import and Customs Procedures
- Technical Equivalent Research

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ENGINEERING SOLUTIONS

Data Centre Solutions

We handle cooling, fire safety and monitoring in data centres together: the right system for uninterrupted operation and low energy use, supplied and installed.

Precision Cooling

The right temperature, uninterrupted operation.

- Precision Air Handling Units
- In-Row Cooling Units
- Chillers and Free Cooling

Liquid Cooling

For high-density racks.

- Direct-to-Chip Liquid Cooling
- Coolant Distribution Units (CDU)
- Rear-Door Coolers

Airflow Management

Bring cold air to the right place.

- Hot and Cold Aisle Containment
- Raised-Floor Air Distribution
- Rack Blanking Panels

Gas Suppression

Extinguishing without damaging equipment.

- Inert Gas Suppression
- Chemical Agent Suppression
- Room Integrity Testing

Very Early Smoke Detection

Detect a fire before it starts.

- Aspirating Smoke Detection
- In-Rack Detection
- Control Integrated with Suppression

Water Mist Systems

Little water, low damage.

- Data Halls
- UPS and Electrical Rooms
- Cable Galleries

Leak & Environment Monitoring

See the risk instantly.

- Water Leak Detection
- Temperature & Humidity Monitoring
- Integration with Building Automation

Energy Efficiency

The same performance with less energy.

- Designed for Low Energy Use
- Reusing Waste Heat in the Building
- Heat Recovery with Heat Pumps

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MECHANICAL SYSTEMS

Stainless Press Fittings System

AISI 316L stainless steel pipes and fittings are joined without welding, by pressing with a press tool. We supply them as part of a system or on their own.

Applications

- Drinking Water
- Heating and Cooling
- Solar Thermal
- Compressed Air
- Steam
- Fire and Water Mist Systems

Advantages

- Weld-Free Installation, No Hot Work
- Much Faster than Welded and Threaded Systems
- Corrosion-Resistant 316L Stainless
- Clean, Repeatable Joints

Material Options

- Stainless Steel
- Carbon Steel
- Copper
- Copper-Nickel (Marine)

Marine and Industry

- Options Approved by Classification Societies
- Stainless Drainage Systems
- Project-Based Supply

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DESIGN & CONSULTING

Design and Consulting

From earthquake protection to detailed design, from system selection to commissioning: make your project's critical decisions together with our specialist mechanical engineers.

Seismic Consulting

Earthquake protection for mechanical and electrical services.

- Seismic Bracing and Restraint Details
- Calculation & Installation Support

Detailed Design

Is your permit design not buildable on site?

- Adapting the Permit Design to the Site
- Mechanical and Electrical Detailed Designs
- Survey and BOQ

System Selection and Sizing

The right system, the right capacity.

- Heating, Cooling and Ventilation
- Plumbing and Fire Protection
- Energy Efficiency Scenarios

CFD and Smoke Control Analyses

See the airflow in advance.

- Car Park and Atrium Smoke Extraction
- Airflow Simulations
- Analysis Reports

Tunnel and Station Ventilation

Ventilation and smoke control for rail systems.

- Tunnel Ventilation and Smoke Control
- Station Ventilation
- Fire Scenario and Smoke Control Strategy

Test, Adjust & Balance (TAB)

Make it work as designed.

- Air and Water Side Balancing
- Commissioning
- Performance Report

Design and BOQ Review

Cost and buildability.

- Cost Optimisation
- Buildability Review
- Alternative System Proposals

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