

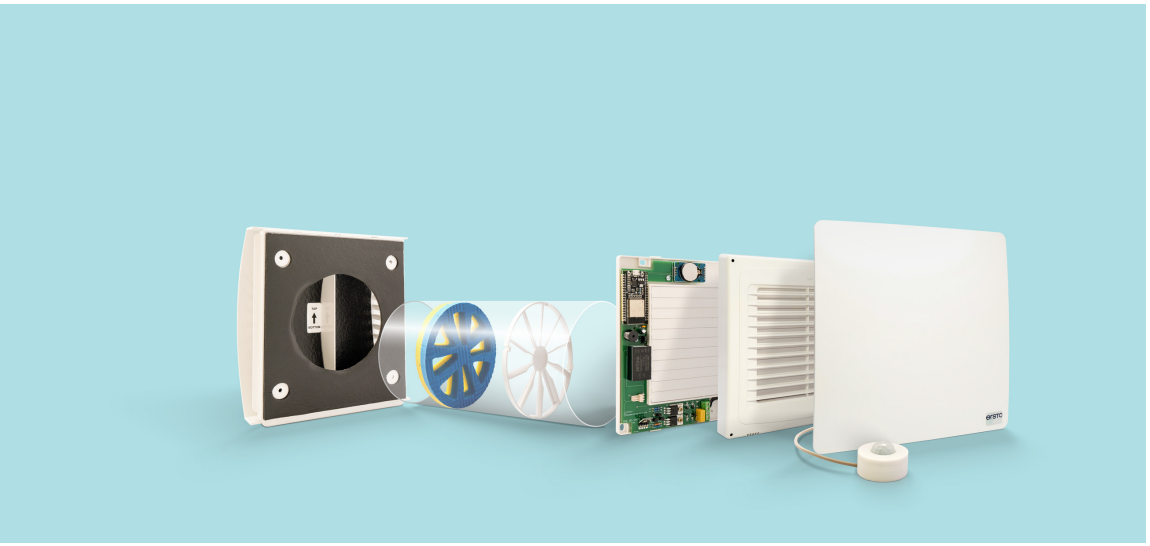
MADE
IN
GERMANY

# ersto air

INTELLIGENT **AIR CIRCULATION**

Intelligent Exhaust Air & Moisture Management System for Healthy Indoor Environments

Controlled air exchange. More stable indoor climate. Sustainable moisture control through controlled air exchange



# PRODUCT PROFILE

erstoair is an intelligent decentralized exhaust air system designed for automated moisture regulation and controlled airflow management in residential and commercial buildings.

The system was specifically developed to continuously remove humid and stale indoor air from so-called moisture and wet zones — the areas where humidity is primarily generated during everyday use.

At the same time, drier fresh air is supplied in a controlled manner through specialized window frame ventilation modules into living and sleeping areas.

This creates a defined airflow throughout the entire building unit — automatically, automatic, energy-efficient and draught-free.

**The result:**
a permanently more stable indoor climate, reduced moisture loads and a significant reduction of mold-promoting conditions.

## DEVELOPED FOR CONTROLLED AIRFLOW & MOISTURE REGULATION

In modern or energy-efficient buildings, conventional window ventilation is often no longer sufficient to reliably remove excess moisture.

**The result may include:**

- increased humidity
- condensation formation
- stale indoor air
- mold-promoting conditions
- unnecessary heat loss from permanently tilted windows

This is exactly where erstoair is designed to perform.

The system ensures continuous and automated air exchange — without depending on manual ventilation habits.

## THE ERSTOAIR AIRFLOW PRINCIPLE

Targeted Exhaust Air in Moisture Zones

The erstoair exhaust modules are installed exclusively in rooms where elevated humidity occurs.

**Typical installation areas include:**

- bathrooms
- toilets
- kitchens
- interior moisture-prone rooms

There, humid and stale air is automatically extracted outdoors at defined intervals.



## CONTROLLED FRESH AIR SUPPLY

Fresh air enters the building in a controlled manner through specialized window frame ventilation systems into:

- living rooms
- bedrooms
- occupied interior spaces

The resulting negative pressure then guides the airflow through the building unit toward the moisture zones.

This creates a natural and continuous airflow throughout the property.

## DRAFT-FREE & ENERGY-EFFICIENT AIRFLOW

The system operates at a low output level and creates only a slight, barely noticeable air movement.

As a result:

- uncomfortable drafts are avoided
- indoor heat is largely retained
- indoor air is continuously renewed
- long-term moisture loads are reduced

Depending on the system configuration, multiple air exchanges per day can be achieved automatically.

## MOISTURE MANAGEMENT & MOLD PREVENTION

By continuously removing humid indoor air, erstoair supports:

- reduction of condensation formation
- stabilization of indoor climate conditions
- prevention of mold-promoting environments
- relief of critical building components
- long-term prevention of recurring moisture problems

Especially relevant after:

- showering
- cooking
- sleeping
- or in highly airtight buildings

## INTELLIGENT CONTROL & COMFORT

Depending on the system configuration, erstoair can be automatically controlled and demand-regulated via:

- humidity sensors
- motion sensors
- programmable schedules
- or a smartphone app

This creates a comfortable and energy-efficient indoor air concept with minimal user interaction.

## TECHNICAL CLASSIFICATION

erstoair is not a conventional air-conditioning or centralized ventilation system.

The system is based on an intelligent exhaust air and airflow concept for controlled moisture regulation throughout the building unit.

The focus lies on:

- moisture removal directly at the source
- controlled air exchange
- stabilization of indoor climate conditions
- and prevention of moisture-related damage and mold formation

## FEATURES & BENEFITS

- automated air exchange throughout the day
- targeted moisture extraction from wet zones
- controlled airflow throughout the building unit
- reduced condensation & humidity loads
- supports mold prevention
- virtually draft-free airflow
- energy-efficient operation
- no permanently tilted windows required
- minimal structural intervention
- retrofit-friendly installation
- app & sensor-controlled operation available
- suitable for new construction & renovation projects

### Part of the ERST System for Moisture Control, Mold Prevention & Indoor Climate

erstoair is a central component of the ERST system portfolio for the long-term stabilization of indoor climate conditions and building structures.

## RECOMMENDED SYSTEM COMBINATIONS

| Problem Area | Recommended Combination |
|---|---|
| Mould-prone interior spaces | erstomould + erstoair |
| Moisture-loaded walls | erstoplast + erstoair |
| Thermal bridges & condensation | erstotherm + erstoair |
| Comprehensive moisture & mold remediation | erstoplast + erstomould + erstotherm + erstoair |
| Long-term stable indoor climate | erstoair + ERST system analysis |

## TYPICAL AREAS OF APPLICATION

### Installation Areas for Exhaust Modules

- bathrooms
- toilets
- kitchens
- interior moisture-prone rooms

### Particularly Suitable for:

- apartments with moisture or mold-related issues
- energy-efficient renovated buildings
- highly airtight building envelopes
- interior wet zones
- new buildings with elevated construction moisture
- existing buildings with insufficient air circulation







## PLANNING & INSTALLATION

Before installation, a project-specific analysis is carried out regarding:

- room layout
- moisture exposure
- airflow management
- installation conditions
- building-physics-sensitive areas

Installation is carried out via:

- window frame ventilation systems
- wall modules
- or decentralized exhaust units within the moisture zones

Structural intervention remains minimal.

## TECHNICAL OVERVIEW

| Property | Description |
|---|---|
| System type | Decentralized exhaust air system |
| Control | Sensor-, timer- or app-controlled |
| Airflow concept | Window frame air supply & exhaust modules |
| Energy consumption | Very low |
| Noise level | Suitable for residential use |
| Installation | Retrofit-friendly |
| Area of application | Residential & commercial buildings |

## FAQ

**Does erstoair replace conventional window ventilation?**
The system significantly reduces the need for manual window ventilation by enabling continuous automated air exchange.

**Are ventilation modules installed in living rooms or bedrooms?**
No. The exhaust modules are installed exclusively in moisture and wet zones. Fresh air enters living and sleeping areas in a controlled manner through window frame ventilation systems.

**Can erstoair remove existing mold?**
No. Existing mold must be professionally remediated. erstoair supports the long-term prevention of recurring moisture and mold problems.

**Does the system create drafts?**
No. The system operates with very low airflow velocity and creates only a slight, barely noticeable air movement.

**Is erstoair suitable for new buildings?**
Yes. The system is suitable for both new construction and existing or renovated buildings.

**ERST – System Solutions for Indoor Climate, Moisture Protection and Building Physics**

**Scientifically grounded. Proven in practice. Designed for long-term performance.**



CONTACT

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