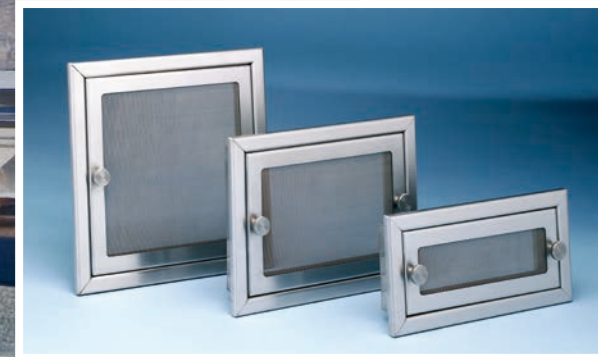


# SUDLUFT

SYSTEMTECHNIK

- Kitchen ventilation technology
- Ventilation towers
- Ventilation components for cleanroom areas



# SÜDLUFT SYSTEMTECHNIK IN PLATTLING (BAVARIA)



**SÜDLUFT**  
SYSTEMTECHNIK



# CONTENTS

The SÜDLUFT company ..... 4-5

## Ceiling ventilation system ..... 6-11

Overview of systems ..... 6-7

SL-ALTIUS ..... 8

SL-CRONIS ..... 9

SL-SELECT ..... 10

SL-PLANO ..... 11

## Ventilation hoods ..... 12-17

Quality and advantages ..... 12-13

Wall-mounted hoods ..... 14

Ceiling hoods ..... 15

Product versions ..... 16-17

## Equipment versions ..... 18-25

SL-AKUSTIK ..... 18-19

SL-THERMO ..... 20-21

SL-UV/UVH-CONTROL ..... 22-23

SL-ECOcontrol ..... 24-25

# INTRODUCING AN INNOVATIVE COMPANY

The name SÜDLUFT guarantees quality in the ventilation technology sector – and has done so for decades. Where sector-specific innovation meets practical design know-how and compelling technology. The range of successfully completed projects and our customer satisfaction highlight this spectacularly. As a reliable partner of builders, property developers and planners, we recognise the demands of contemporary ventilation technology and meet these time and time again. With high-quality, energy-saving and sustainable products, we meet the environmental concepts and forward-thinking business philosophy of SÜDLUFT.



MADE IN GERMANY  
– FROM PLANNING  
AND IN-HOUSE  
PRODUCTION  
THROUGH TO  
ON-SITE ASSEMBLY.



Your projects are in good hands  
– We are certified according to  
ISO 9001:2008



# OUR BUSINESS FIELDS

## KITCHEN VENTILATION TECHNOLOGY (CEILING VENTILATION / VENTILATION HOODS)

At the forefront of this sector is the manufacture, supply and assembly of industrial ceiling ventilation systems adapted to the individual structural conditions. Ventilation hoods for industrial kitchens are manufactured in standard designs and as individual solutions.



## VENTILATION TOWERS AND COMPONENTS FOR CLEANROOM AREAS

This sector comprises external and exhaust air towers, particulate filters for cleanroom areas, airlock systems for cleanrooms and laser, edging and welding operations.



## AIR GUIDANCE SYSTEMS

This sector is defined by the “modular duct”. A patented, gas-tight duct system, which was specially developed for exhaust air management in automotive paint shops and which meets the highest demands in impermeability, resistance to corrosion, easy assembly and even visual appearance. As accessories for these systems, which are built with complete engineering, the range includes pipework construction for hot gas lines and smaller steelwork and complete assembly. Clients are predominantly plant and mechanical engineering companies.





# CEILING VENTILATION SYSTEMS AT A GLANCE

OUTSTANDING PRODUCT LINES for varying requirements.

BASIC EQUIPMENT LINES:

- SL-ALTIVUS
- SL-CRONIS
- SL-SELECT
- SL-PLANO

ADVANTAGES:

- ✓ Flexible identification of focal points over the hob
- ✓ Ceiling systems in line with the hygiene regulations in food processing areas
- ✓ Ideal lighting for work areas
- ✓ A choice of integrated light elements available as recessed single flush-mounted luminaires, lighting strips or downlights
- ✓ Fresh air supply according to demand: via displacement outlets with junction boxes or, optionally, as a pressure relief ceiling with perforated ceiling panels
- ✓ Homogenous design







Beach House,  
Nordwijk aan Zee (NL)







Four Seasons, Hamburg

**FEATURES:**

- ✓ Designed as a “closed ceiling system”
- ✓ All exhaust air flows are separated from the building structure
- ✓ Flexible identification of exhaust air focal points and fresh air supply
- ✓ Aerosol separator tested according to DIN 18869-5/16282
- ✓ High hygiene standard of all materials
- ✓ Ideal illumination of work surfaces
- ✓ Easy cleaning and maintenance

**MATERIAL:**

- ✓ Surfaces powder-coated in RAL9010 or of anodised aluminium
- ✓ At the request of the customer, we will gladly also offer powder-coating in all standard RAL colours for an additional charge

**EQUIPMENT VERSIONS:**

- ✓ SL-THERMO energy saving system
- ✓ SL-ECOcontrol energy saving system
- ✓ SL-UV/UVH-CONTROL for secondary aerosolate treatment
- ✓ SL-AKUSTIK sound insulation system

This system is manufactured from extruded aluminium profiles specially developed by SÜDLUFT.  
These are bolted and sealed to be condensation-proof.



# SL-CRONIS



Ruhr University, Bochum



## FEATURES:

- ✓ Designed as a “closed ceiling system”
- ✓ All exhaust air flows are separated from the building structure
- ✓ Flexible identification of exhaust air focal points and fresh air supply
- ✓ Aerosol separator tested according to DIN 18869-5/16282
- ✓ High hygiene standard of all materials
- ✓ Ideal illumination of work surfaces
- ✓ Easy cleaning and maintenance

## MATERIAL:

- ✓ 1.4301 stainless steel with K240 Duplo finish

## EQUIPMENT VERSIONS:

- ✓ SL-THERMO energy saving system
- ✓ SL-ECOcontrol energy saving system
- ✓ SL-UV/UVH-CONTROL for secondary aerosolate treatment
- ✓ SL-AKUSTIK sound insulation system

**FEATURES:**

- ✓ Designed as a “closed ceiling system”
- ✓ All exhaust air flows are separated from the building structure
- ✓ Flexible identification of exhaust air focal points and fresh air supply
- ✓ Aerosol separator tested according to DIN 18869-5/16282
- ✓ High hygiene standard of all materials
- ✓ Ideal illumination of work surfaces
- ✓ Easy cleaning and maintenance

**MATERIAL:**

- ✓ Active exhaust air elements in 1.4301 stainless steel, with K240 Duplo finish
- ✓ Passive ceiling elements powder-coated in RAL 9010
- ✓ At the request of the customer, we will gladly also offer powder-coating in all standard RAL colours for an additional charge

**EQUIPMENT VERSIONS:**

- ✓ SL-THERMO energy saving system
- ✓ SL-ECOcontrol energy saving system
- ✓ SL-UV/UVH-CONTROL for secondary aerosolate treatment
- ✓ SL-AKUSTIK sound insulation system



# SL-PLANO



BMW, Leipzig



## FEATURES:

- ✓ Designed as a “closed ceiling system”
- ✓ Surface-flush execution of functional elements
- ✓ All exhaust air flows are separated from the building structure
- ✓ Flexible identification of exhaust air focal points and fresh air supply
- ✓ Aerosol separator tested according to DIN 18869-5/16282
- ✓ High hygiene standard of all materials
- ✓ Ideal illumination of work surfaces
- ✓ Easy cleaning and maintenance

## MATERIAL:

- ✓ Surfaces powder-coated in RAL9010 or anodised
- ✓ At the request of the customer, we will gladly also offer powder-coating in all standard RAL colours for an additional charge
- ✓ 1.4301 stainless steel with K240 Duplo finish

## EQUIPMENT VERSIONS:

- ✓ SL-THERMO energy saving system
- ✓ SL-ECOcontrol energy saving system
- ✓ SL-UV/UVH-CONTROL for secondary aerosolate treatment
- ✓ SL-AKUSTIK sound insulation system

# VENTILATION HOODS

The ventilation hood is an instrument that clears the air in the kitchen through the best possible demand-based extraction of exhaust air from the kitchen.

Within our core business, we win over customers with both the technical maturity and the variety of our kitchen exhaust hoods. As a result, our hood range is more than just a benchmark.

SÜDLUFT Systemtechnik is your ideal point of contact for everything to do with ventilation hoods. We are the byword for expertise and planning security. Which is why we develop complex system solutions specifically to meet your needs.

We build ventilation hoods based on your requests and ideas. We would be happy to realise these in accordance with all conventional standards and provisions.

## ADVANTAGES:

- ✓ Technical maturity that impresses
- ✓ Your wishes are our goals
- ✓ Ideal air conditions in the kitchen and highly effective separation by the aerosol separator
- ✓ Tried and tested SÜDLUFT quality: For more than 40 years

QUALITY AND  
VERSATILITY  
COME AS  
STANDARD

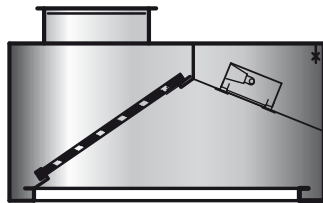




Wall-mounted hoods are ideal for capturing exhaust air above thermal kitchen appliances and counters.

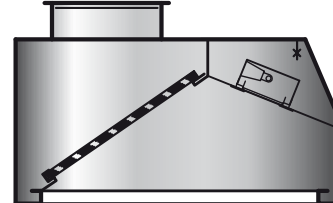
This hood is manufactured in the following designs:

TYPE E-K



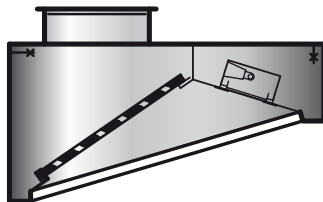
Single-row wall-mounted hoods in box design

TYPE E



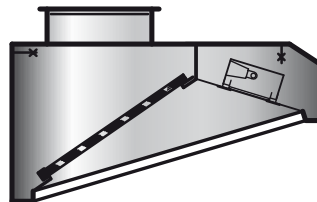
Single-row wall-mounted hoods in trapezoid design with bevelled front

TYPE F-K



Single-row wall-mounted hoods in elevated box design – ideal for rooms with low ceilings or a cramped installation situation. This shape ensures optimal headroom for users.

TYPE F



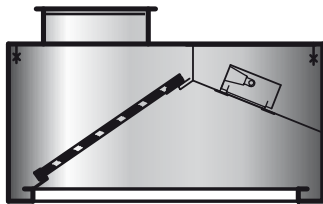
Single-row wall-mounted hoods in elevated trapezoid design with bevelled front – ideal for rooms with low ceilings or a cramped installation situation. This shape ensures optimal headroom for users.



# CEILING HOODS

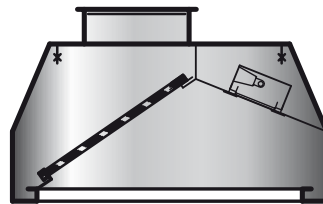
Whether freestanding stoves, double-row cooking stations, serving counters or cooking islands, SÜDLUFT provides individual ceiling hood solutions – made to measure! The following hood types complete the SÜDLUFT range and set it apart from competitors:

TYPE H-K



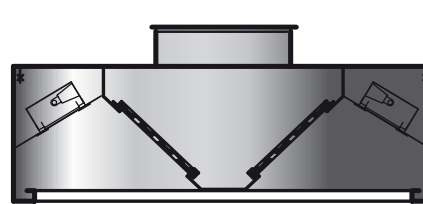
Single-row ceiling hoods in a slimline design in box form

TYPE H



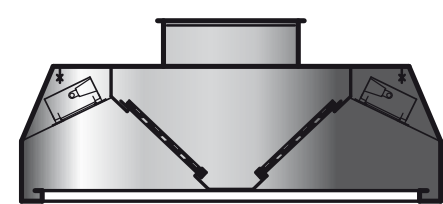
Single-row ceiling hoods in a slimline design in trapezoid form with bevelled long edges

TYPE C-K



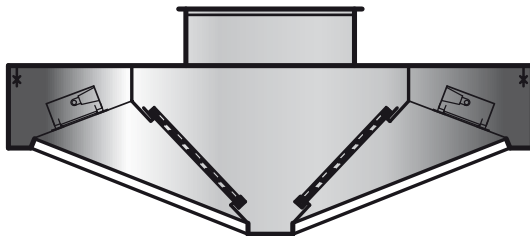
Double-row ceiling hoods with V-shaped separator row in box design

TYPE C



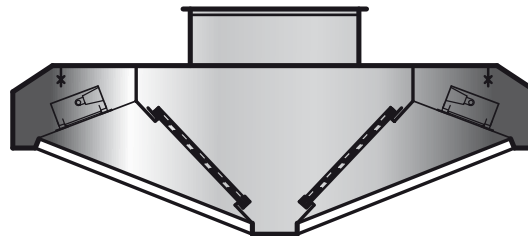
Double-row ceiling hoods with V-shaped separator row in trapezoid design

TYPE D-K



Double-row ceiling hoods in elevated box design – ideal for small spaces or narrow mounting locations. This shape ensures optimal headroom for users.

TYPE D



Double-row ceiling hoods in elevated trapezoid design – ideal for small spaces or narrow mounting locations. This shape ensures optimal headroom for users.

TYPE C-K/GF



Double-row ceiling hoods with edge suction on the long sides

## SOFTLINE

Elegant and hygienic.

SÜDLUFT products look high-quality instantly and also on closer inspection. You decide whether the ventilation hood should form the focal point of the kitchen or blend in with the entire space. The stainless steel surface exudes quality. Hood designs with softline edges are the cherry on the cake. The rounded corners and edges set soft design accents and increase the hygiene standard.

Almost all hood models are available with softline edges. With circumferential aerosol-collecting channel on request. Easy cleaning, fewer deposits.



## SOURCE AIR HOOD

The all-rounder in hoods saves space and money! Ventilation hoods with integrated supply air intake in the form of front displacement air outlets. Ideal as a compact component, it creates a focal point, collects vapours above the cooker and feeds low-draught and low-induction supply air into the kitchen.

Using a perforated front plate with 40 % free cross-section, 6.0 mm hole spacing and 4.0 mm hole diameter, the tempered supply air flows evenly through an isolated pressure chamber inside the hood in the kitchen area. Compatible with practically all hood types (excluding TYPE F-K, F, D-K, D and CK/GF), this hood type serves as an all-rounder to suit a wide range of applications.





## INJECTION

Hoods with supportive flow technology are used to counteract cross-flows and efficiently collect cooking vapours.

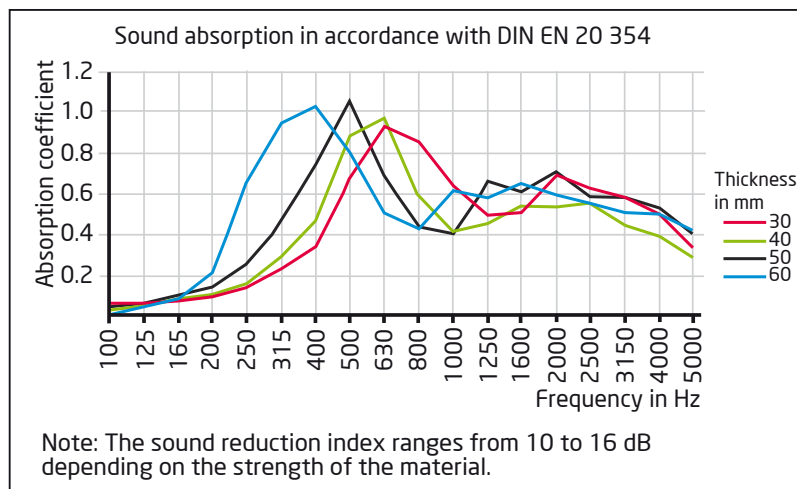
The injection hood is available as both a wall-mounted hood and a ceiling hood. The pre-tempered fresh air is fed into the isolated supply air pressure chamber via diffuser plates and the stabilising flow nozzles to stabilise the thermal stream in the hood.

The stabilising flow nozzles can be adjusted to the respective air volume and generate a strong stabilisation effect at levels as low as 30 - 50 m<sup>3</sup>/h per linear metre of hood length.



A ceiling ensures peace and quite – high noise levels cause additional stress for employees. This means increased risk of accident, dissatisfaction and often illness. A good working climate in industrial kitchens therefore requires corresponding sound insulation. SÜDLUFT developed SL-Akustik for this very reason: a ceiling with exceptional sound-insulation properties, as certified by the Fraunhofer Institute. The insulation is also hygienically sound and classified as “hardly flammable”.

- ✓ Highly efficient sound reduction and absorption
- ✓ Noticeably more comfortable soundscape
- ✓ Available in various colours and tailored to individual requirements
- ✓ Dimensionally stable, hygienic, robust, light









WASTE-HEAT RECOVERY SAVES ENERGY.

Do you want to minimise your ventilation energy costs?

- ✓ Best possible use of the heat from kitchen exhaust air
- ✓ Efficiency depending on cooking patterns > 70 %

ADVANTAGES:

- ✓ Space saving in technical rooms
- ✓ Sparing use of resources
- ✓ Reduces investment costs for the heating system
- ✓ Installation of the heat exchanger directly over the heat source of the cooking appliances in the exhaust air space behind the aerosol separators, resulting in a high level of efficiency during cooking
- ✓ Easy to maintain and operate thanks to the ease of removability of the heat exchanger
- ✓ Calculation of energy savings and payback only after receipt of the order (not in the planning stage)



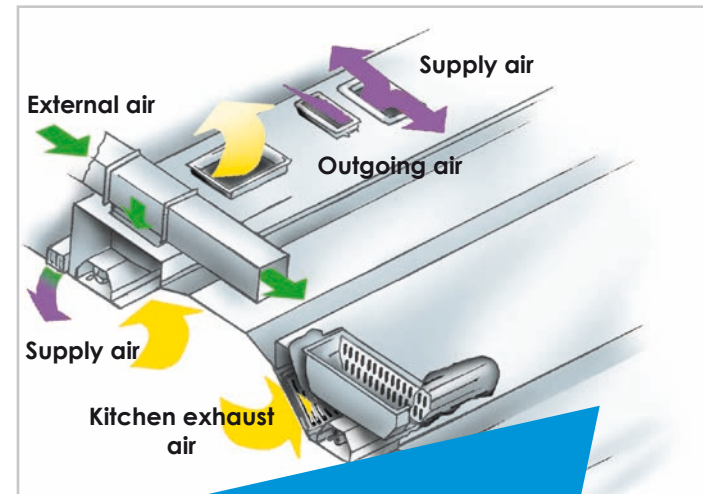


## TECHNOLOGY:

- ✓ Decentralised waste heat recovery (WHR)
- ✓ Compact arrangement of system components
- ✓ Switching to summer or winter operation (manual or automatic)
- ✓ Heat exchanger with self-cleaning effect
- ✓ External connection to a control system possible
- ✓ Connection to building control system possible

## OUR SERVICES FOR YOU:

- ✓ Payback calculation
- ✓ Calculation of energy savings
- ✓ Design of the WHR system
- ✓ Support in planning work



SL-THERMO – A COMPACT  
SYSTEM INTEGRATED IN THE  
HOOD AND/OR CEILING FOR HIGHLY  
EFFICIENT HEAT RECOVERY.



## AS CLEVER AS NATURE:

- ✓ The natural source of UV radiation is the sun
- ✓ The system is based on the generation of short-wave UV radiation and the chemical reaction of the ozone

## ADVANTAGES:

- ✓ Effective reduction of aerosols
- ✓ Reduction of fire load
- ✓ Clean channels
- ✓ Reduction of odour emissions
- ✓ Lower operating and maintenance costs
- ✓ Longer service life of system components
- ✓ Longer constant heat recovery efficiency in the ventilation equipment

## TECHNOLOGY:

- ✓ Single tube systems for greater flexibility
- ✓ Single UV-emitter exchange via terminal system
- ✓ Patented safety locking system
- ✓ Easy and clear menu operation
- ✓ System monitoring via BUS system
- ✓ Air flow monitoring by flow monitor

## FURTHERMORE:

THE KITCHEN CEILING VENTILATION REMAINS CLEAN AND DRY WITHIN THE RANGE OF THE UV LAMPS. THE LAMPS SIMPLY NEED TO BE CHECKED AND WIPED IF NECESSARY DURING REGULAR CLEANING.



## BASIC VERSION FOR SECONDARY TREATMENT OF AEROSOLS AND AEROSOLATES

### TECHNOLOGY:

- ✓ Ideal for small ceilings and hoods
- ✓ Service life of UV tubes:  
12,000 hours
- ✓ Ease of operation and maintenance  
through plug-in system
- ✓ Control and monitoring controller  
with operating console
- ✓ Patented safety locking system
- ✓ Flow monitor

### CONSTRUCTION:

- ✓ Monitoring of two separate  
system circuits (SYSTEM1 / SYSTEM2)
- ✓ Up to a max. of 8 UV tubes per system circuit
- ✓ Logging of operating hours and  
monitoring of each system circuit
- ✓ System regulation via flow monitors  
for each system circuit
- ✓ Connection to building control systems



## PREMIUM VERSION WITH SINGLE TUBE MONITORING

### TECHNOLOGY:

- ✓ Convenience and safety for all areas of application
- ✓ Central control unit with touch screen
- ✓ Control module with ballast unit and Bus coupler
- ✓ Single UV tubes
- ✓ Service life of single tubes:  
12,000 hours
- ✓ Ease of operation and maintenance  
through plug-in system
- ✓ Patented safety locking system
- ✓ Flow monitor

### CONSTRUCTION:

- ✓ Circuits for up to 3 zones
- ✓ Total connection of a maximum  
30 single UV tubes
- ✓ Individual tube monitoring of each single  
UV tube for operating hours and faults
- ✓ System regulation via flow monitors  
for each zone
- ✓ Remote maintenance via the Internet
- ✓ Connection to building control system





## SAVES ENERGY:

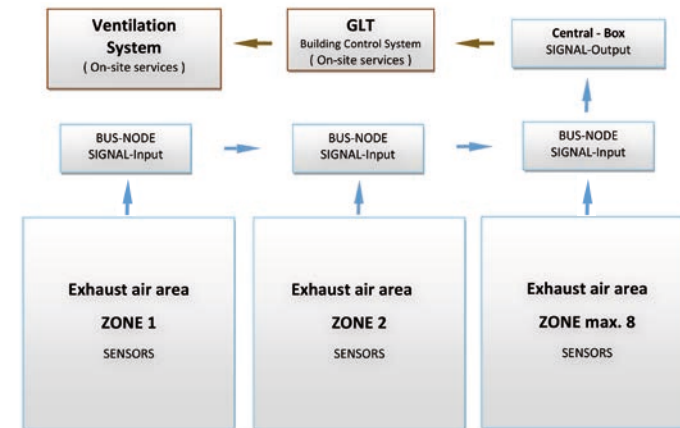
- ✓ Intelligent control management of flow rates
- ✓ Demand-based exhaust air control

## ADVANTAGES:

- ✓ Reduction of heating and energy costs for fresh supply air
- ✓ High operating comfort through automation
- ✓ Sparing use of resources

## TECHNOLOGY:

- ✓ Sensor technology with real-time response
- ✓ Signal value recording and processing
- ✓ Provision of data to the building control system
- ✓ Division into various detection zones



Light barrier (invisible to the naked eye)



PREPARE TO BE IMPRESSED BY OUR SERVICES!



YOUR RELIABLE,  
INNOVATIVE PARTNER  
FOR ALL ASPECTS OF  
VENTILATION  
TECHNOLOGY



The background of the slide is a close-up photograph of several green leaves, likely from a plant like a cornflower, showing their veins and edges. The leaves are slightly out of focus, creating a soft, naturalistic texture.

**KITCHEN VENTILATION TECHNOLOGY**  
(Ceiling ventilation, Ventilation hoods)

**VENTILATION TOWERS**

**VENTILATION COMPONENTS FOR CLEANROOM AREAS**

# SÜDLUFT

## SYSTEMTECHNIK

SÜDLUFT SYSTEMTECHNIK GMBH & CO. KG

Robert-Bosch-Strasse 6 · 94447 Plattling · Germany

Telephone: +49 99 31/91 79-0 · Fax: +49 99 31/91 79-70

info@suedluft.de · www.suedluft.de

