

ESCA 2400/3400/5300

Filter, suction and supply unit (Performance class 2400 – 5300 m³/h)



Key Facts

- ✓ Outlet air suction and filtration, particle removal into collection bins
- ✓ Control of cleaning equipment
- ✓ Power supply for ionisation
- ✓ Compressed air preparation and control
- ✓ Monitoring and signal output

Product Description

The ESCA series (2400/3400/5300) is designed for operating KIST + ESCHERICH surface cleaning devices specifically for applications with high particle volumes. An innovative, cleanable cartridge filter system with an easily removable dust collection bin ensures efficient filtration.

The airflow cleaned in this way is either discharged into the work environment or routed into an external output air system.

In addition, the ESCA unit centrally monitors and controls all connected cleaning devices as well as internal components such as the suction fan and the filter cleaning system. External devices – such as ionisers or flow monitors – can also be included in the monitoring system as required. The unit automatically generates warning signals in the event of an error, which are visualised on signal displays and forwarded as external status signals. The ESCA series can also be easily integrated into remote machine controls.

- Central operating unit with status and error display
- Display for filter status and collective errors is on the device
- Monitoring of filters and connected or integrated components and single error message to the remote control
- Actuation via remote machine control is possible
- Height-adjustable levelling feet
- Colour RAL 7035 light grey/ RAL 5003 sapphire blue
- Additional variants available: ESD

Suction / filtration

- Different performance classes, suitable for cleaning devices of various sizes
- Cleanable cartridge filter system for large particle volumes
- Easy replacement of the dust collection bin
- Choice of suction nozzle arrangement for connecting several cleaning stations

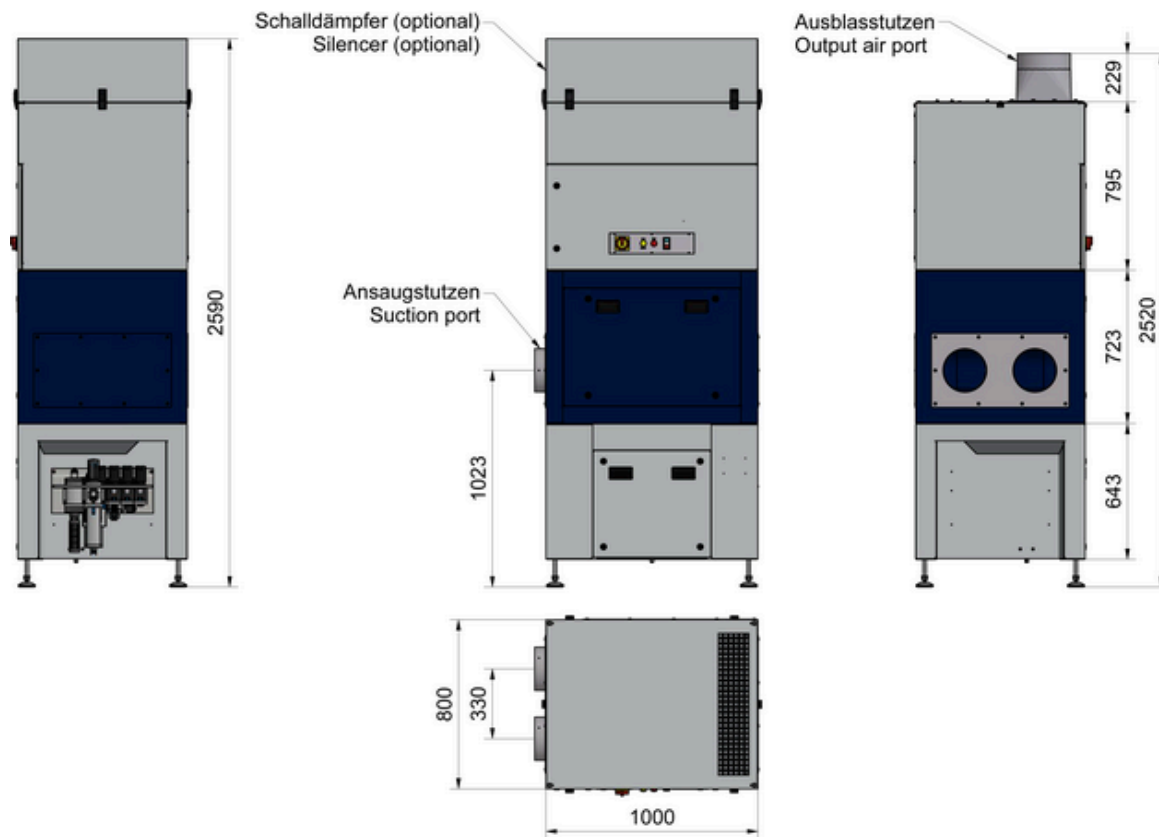
Technical Data

	ESCA 2400	ESCA 3400	ESCA 5300
Volume flow (max.)	2360 m³/h	3350 m³/h	5200 m³/h
Number of filter stages	1	1	1
Operating voltage	3x 400 V, PE, N	3x 400 V, PE, N	3x 400 V, PE, N
Frequency	50 Hz	50 Hz	50 Hz
Rated power	4.2 kVA	6.8 kVA	5.8 kVA
Rated current (max.)	6.0 A	9.8 A	8.4 A
Pre-fuse	16 A	20 A	32 A
Diameter of the suction port	<ul style="list-style-type: none">1x DN2502x DN2002x DN150	<ul style="list-style-type: none">1x DN2502x DN2002x DN150	<ul style="list-style-type: none">1x DN2502x DN200
Diameter of the output air port	1x DN150 or diffused	1x DN200 or diffused	1x DN250 or diffused
Pressure difference (max.)	2880 Pa	3400 Pa	3400 Pa
Compressed Air Quality	factory, oil-free, dry	factory, oil-free, dry	factory, oil-free, dry
Operating air pressure input	max. 8 bar	max. 8 bar	max. 8 bar
Ambient temperature (min. - max.)	5 – 40 °C	5 – 40 °C	5 – 40 °C
Weight	368–400 kg	393–425 kg	420–450 kg
Degree of protection for control cabinet	IP54	IP54	IP54

Notes:

- The maximum volume flow rate and maximum pressure difference are the fan characteristic values in suction mode, free-blowing.
- The rated power and rated current as well as the weight vary depending on the equipment.
- The stated weight refers to a variant without added options.

Technical Drawings



Options

- Compressed Air Preparation and Control
- Control of switched cleaning
- Control and monitoring of cleaning systems with movement
- Control of ROTORCLEAN cleaning systems
- Extended monitoring of system parameters (operating pressure, volume flow, rev speed of rotating nozzles)
- Connection to external systems via Profibus/Profinet
- Silencer to reduce noise emissions

Related Products



Accessories filter



Accessories for output
air components



Accessories for suction
hoses



ALM

Volume flow monitoring in
the suction line



ALBY

Bypass to divert airflow for
reduced turbulence



AL2V

2-way distributor for
controlling the alternating
operation of two cleaning
devices on one suction
device