

HALDRUP SMU

Compact Dust Extractors



GROWING
THE FUTURE
BY KNOW-HOW



EFFICIENT DUST EXTRACTION FOR LABORATORY AND PROCESSING OPERATION

Controlled working conditions are essential for consistent seed processing workflows. HALDRUP SMU systems reliably capture and separate process dust generated during threshing, cleaning, and downstream seed handling operations.

The systems feature a modular design and can be configured to meet specific performance and space requirements. They integrate seamlessly with HALDRUP equipment as well as existing third party machinery.

The scope of supply includes technical consultation, project specific system design, delivery, and installation, from component supply through full commissioning.

HALDRUP SMU – COMPACT, POWERFUL AND QUIET

INCREASED AIRFLOW PERFORMANCE

HALDRUP compact dust collectors cover airflow capacities up to 10,000 cubic meters per hour. Internal airflow paths have been optimized to reduce pressure losses, resulting in improved available static pressure. This expands the operational range and overall system performance.

REDUCED ENERGY CONSUMPTION

Energy efficient IE3 motors are standard, with IE4 available as an option. For higher capacity systems, operation with a variable frequency drive allows precise fan speed control and supports reduced energy consumption.

LOW NOISE OPERATION

Acoustic performance has been optimized to reduce overall noise emissions. Additional external silencers are not required.

ADVANCED FILTRATION

The high separation efficiency of the certified filter media ensures a residual dust concentration in the return air of less than 0.1 milligrams per cubic meter. The compressed air pulse jet cleaning system provides effective and gentle filter cleaning with low compressed air consumption, supporting extended filter service life.

MODERN, SPACE EFFICIENT DESIGN

The redesigned housing and optimized internal configuration, combined with proven filter technology, result in a compact footprint with minimal floor space requirements and low overall installation height.

INDEPENDENTLY TESTED

All HALDRUP compact dust collectors have been tested by an independent European occupational safety body and comply with recognized European safety certification standards.

DESIGN CONFIGURATIONS

- ▶ Automatic fan start
- ▶ Automatic slide gate control
- ▶ Operation via frequency inverter (VFD)
- ▶ Fill level monitoring in collection containers with briquetting press, container discharge, or silo feeding
- ▶ Chip briquetting press or externally installed collection container
- ▶ Automatic fire suppression system (powder-based)
- ▶ Ignition protection system



HALDRUP SMU SERIES 12-100 – TECHNICAL DETAILS

Series 12-32	SMU 12	SMU 15	SMU 20	SMU 25	SMU 30	SMU 32
Suction nozzles Ø in mm	125	140	160	180	200	200
Nominal volume flow in m³/h	880	1110	1450	1830	2260	2260
Volume flow in m³/h	1200	1500	2000	2500	3000	3200
Vacuum in Pa	2300	2050	2400	2500	2400	2700
Motor capacity in kW	2,2	2,2	3,0	3,0	4,0	4,0
Max. noise emissions in dB (A)	65	65	65	65	65	67
Collection volume in l	1x165	1x165	1x165	1x165	1x165	2x165
Dimensions L x W x H	L 1320 B 750 H 1905	L 1320 B 750 H 1905	L 1670 B 750 H 1975	L 1860 B 750 H 1975	L 1860 B 750 H 1975	L 2420 B 900 H 1965
Weight in kg	340	345	385	390	400	680

Series 45-100	SMU 45	SMU 60	SMU 70	SMU 85	SMU 100
Suction nozzles Ø in mm	250	300	315	355	355
Nominal volume flow in m³/h	3530	5090	5610	7130	7130
Volume flow in m³/h	4500	6000	7000	8500	10000
Vacuum in Pa	2700	2500	2800	2700	3000
Motor capacity in kW	5,5	7,5	11,0	11,0	15,0
Max. noise emissions in dB (A)	67	69	70	70	72
Collection volume in l	2x165	3x165	3x165	3x165	3x165
Dimensions L x W x H	L 2540 B 900 H 1965	L 3080 B 900 H 1965	L 3220 B 900 H 1965	L 3570 B 900 H 1965	L 3570 B 900 H 1965
Weight in kg	705	850	880	900	930

HALDRUP SMU – KEY SYSTEM ADVANTAGES

- ▶ Enhanced operator protection through dust-controlled operation
- ▶ Compact footprint with low overall installation height
- ▶ Low-noise performance suitable for laboratory and production environments
- ▶ Flexible installation: standalone configuration or ducted connection to a remote location
- ▶ Supplied with a fully integrated control system and delivered ready for operation
- ▶ Integrated collection containers (single or multiple, depending on configuration) for efficient residue handling
- ▶ High-capacity disposal options available for larger material volumes
- ▶ Connection adapters available for HALDRUP laboratory threshers and cleaners (LT-15, LT-20, LT-21, LT-35, LT-50, DC-20)
- ▶ Integration of existing HALDRUP machines and third-party equipment via custom adapter solutions
- ▶ Optional integrated straw chopping unit, directly connectable to LT-21, LT-35, and LT-50
- ▶ Low-maintenance system design

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