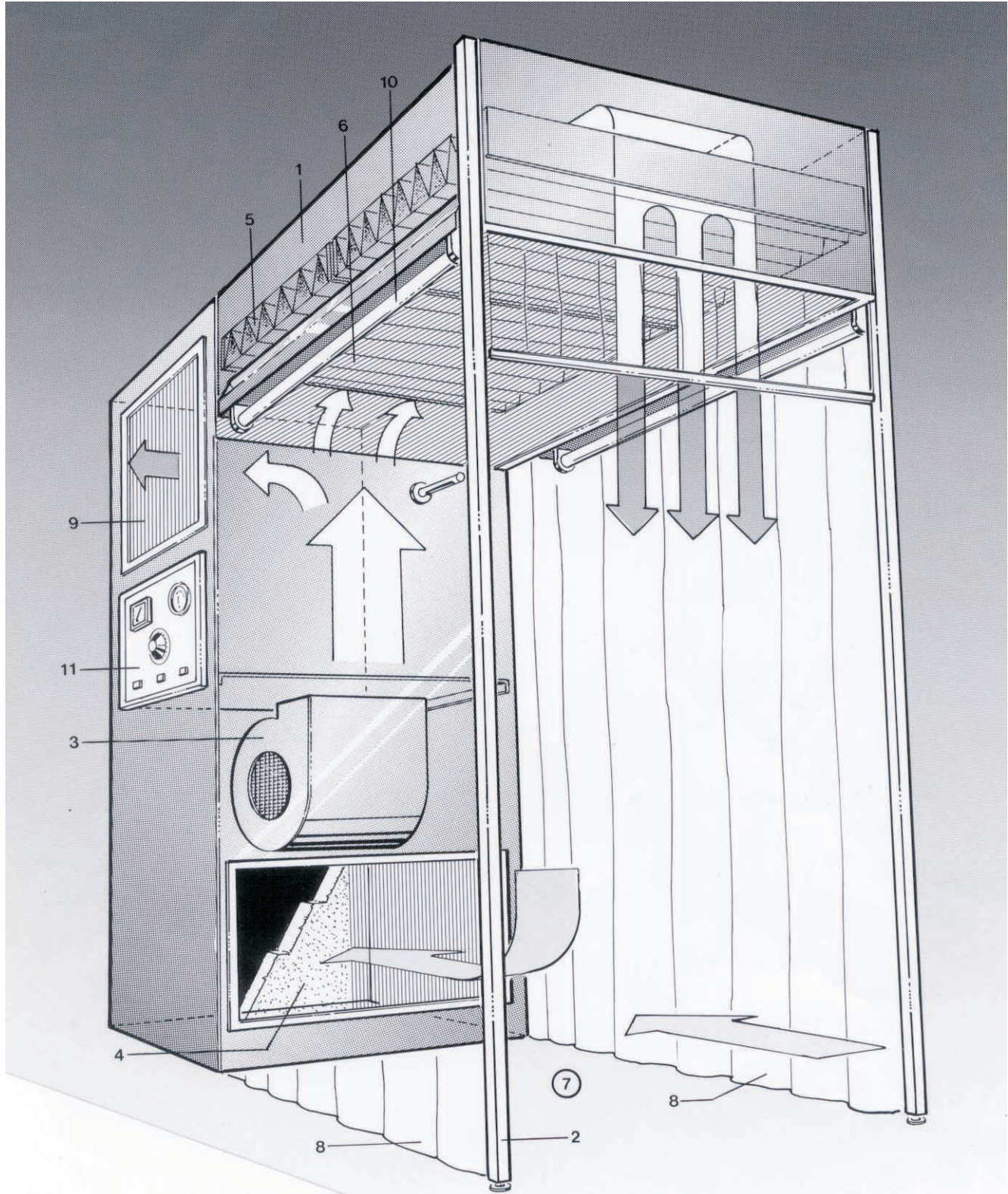


Technical Selection



Weighing cabin WK....



Key for all pages:

- | | | |
|-----------------|--------------------------|--|
| 1 Housing | 4 Prefilter | 8 Plastic apron |
| 2 Standing legs | 5 Supply air HEPA filter | 9 Exhaust air HEPA filter (also lateral) |
| 3 Radial fan | 6 Discharge element | 10 Lighting |
| | 7 Work zone | 11 Switching and control unit |

Preliminary remarks

Weighing cabins protect operating personnel when weighing up and filling products containing active agents. Weighing precision is unimpaired. At the same time, the products are kept free of germs and particles. The weighing cabins can be used for both table scales and floor scales provided by the customer. Weighing cabins operate with low-turbulence displacement ventilation and fully meet the requirements of DIN EN ISO 14644-1 class 5 or M3.5 (100) to US Federal Standard 209E.

Construction design and function

Weighing cabins have a rectangular housing 1 whose upper horizontal segment is supported at the end with standing legs 2 on both sides. Via the prefilter 4 positioned in the floor zone, the built-in, adjustable-speed radial fan 3 takes in air and discharges it via the HEPA filter 5 and air discharge element 6 into the work zone 7, which is flushed with the clean air using low-turbulence displacement flow. Transparent plastic aprons 8 demarcate the sides of the work zone. The front side (operating side) remains open. To maintain negative pressure in the cabin work zone the return air collected at the prefilter is set to be larger than the supply air flow via the discharge element. The additional volume flow rate portion is taken from the room containing the cabin. It flows in through the open operating side. For

air balance the same rate of exhaust air is returned via the HEPA filter 9 into the room where the cabin is located. This prevents the discharge of harmful substances into the room.

The lighting 10 ensures even illumination of the whole work zone. Discharge element 6 laminarizes the displacement flow. It is available as a fine-mesh polyester fabric or as perforated metal sheet made of stainless steel. While the stainless steel model is largely unaffected by mechanical influences, the fabric option ensures the best laminar flow and because of its transparency the lighting can also be placed above the discharge element.

Depending on weighing cabin use – for floor or table scales – the prefilter 4 is placed at various heights.

Construction materials

The following materials are available:

Housing and standing legs: Stainless steel, polished

Alternative:

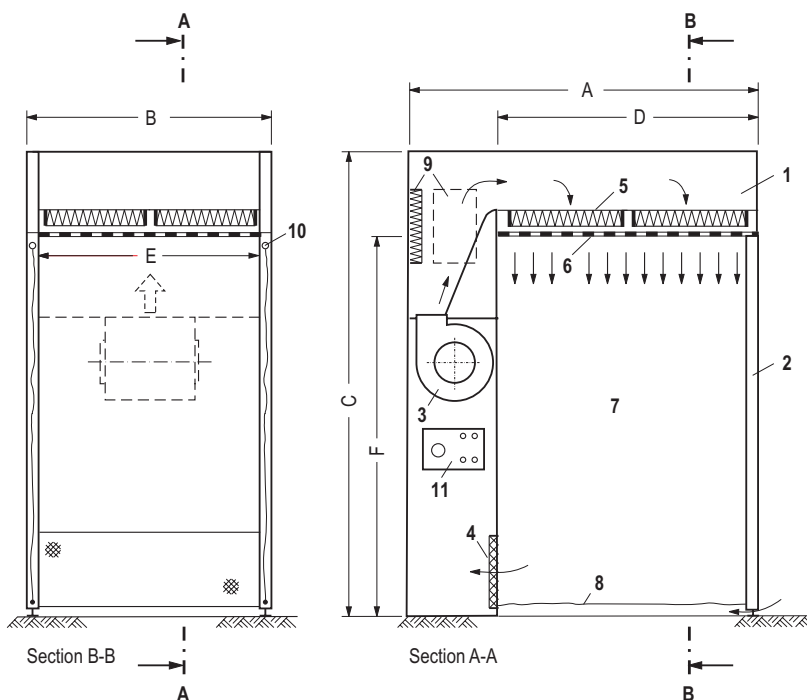
Sheet steel (coated)

Discharge element:

Stainless steel or polyester

Side partition:

PVC or acrylic glass



DS 4037 E Bl. 3 01.2003

Technical data	Standard size			
	1	2	3	
Total:				
– Length A	mm 1900	1900	2200	
– Width B	mm 1300	1600	1900	
– Height C	mm 2700	2700	2700	
Work zone:				
– Length D	mm 1300	1300	1600	
– Width E	mm 1300	1600	1900	
– Height F	mm 2200	2200	2200	
Volume flow rate:				
– Supply air	l/s 765	930	1360	
	m ³ /h 2750	3350	4900	
– Return air	l/s 1070	1305	1900	
	m ³ /h 3850	4700	6850	
– Exhaust air	l/s 305	375	540	
	m ³ /h 1100	1350	1950	
Fan power	kW 2.2	2.8	2x2.2	
Lighting	W 2 x 30	2 x 30	2 x 58	
Operating voltage	V/Hz	400 V / 50 Hz		
Weight approx. kg		300	450	700

Operational readiness and safety

The weighing cabins are fully assembled and delivered in an operational condition. Every unit is thoroughly checked beforehand at the factory.

During operation, the discharge velocity of the low-turbulence displacement flow amounts to about 0.45 m/s. When not in operation, e.g. at night and on free days it can be reduced using a day/night switch (optional) to 0.25 m/s.

Functional and secure working of the weighing cabins in daily operation is ensured by permanent supervision of the supply air volume flow rate using a built-in volume flow rate gauge and by readjusting the fan-throughput capacity by hand at the switching and control unit 11.

Features

- Vertical, low-turbulence displacement flow
- Can be used for table or floor scales on site
- Compact, operational unit
- Available in several standard sizes and, on request, also in other dimensions
- Housing, discharge element and side partition available in different materials
- Two-stage prefilter with G3 filter mat and F7 filter cell
- Class H14 HEPA filter for supply air and exhaust air
- Built-in radial fan with adjustable-speed drive motor
- Gauge for pressure differential and volume flow rate/air velocity resp.
- High operational safety by permanent supervision of air velocity and volume flow rate resp.
- Easy to disinfect

Type code

WK - - -

Weighing cabin
Function / Kind
Size

Function / Kind

T = For table scales
B = For floor scales

Size

1 = A x B x C = 1300 x 1300 x 2200
2 = A x B x C = 1300 x 1600 x 2200
3 = A x B x C = 1600 x 1900 x 2200
4 = Special dimensions

Tender text

Weighing cabin with low-turbulence, vertical displacement flow for DIN EN ISO 14644-1 class 5 or M3.5 (100) to US Federal Standard 209E, to accommodate on-site

table scales, floor scales,

consisting of:

housing in air-tight clean room design including vertically adjustable standing legs,

mobile,

prefilter, two-stage, G3 and F7 to DIN EN 779,

for supply and exhaust air HEPA-filter H14 to

DIN EN 1822-1,

sealing frame for HEPA filter, including press-on device,

radial fan with adjustable-speed drive motor,

discharge element for low-turbulence displacement flow, built-in lighting,

gauge for pressure differential and volume flow rate/air velocity resp.,

switching and control unit with speed controller for the fan drive motor,

and day/night switch

including all electric actuators and control device.

Technical data

Work zone – Length: mm
– Width: mm
– Height: mm

Total – Length: mm
– Width: mm
– Height: mm

Air flow – Supply air: l/s (m³/h)
– Return air: l/s (m³/h)
– Exhaust air: l/s (m³/h)

Fan power: W

Lighting: W

Operating voltage: 400 V / 50 Hz

Weight with filter cell: kg

Material

– Housing and standing legs: Stainless steel, polished
 Sheet steel, coated,
Colour RAL

– Discharge element: Stainless steel
 Polyester

Make: KRANTZ KOMPONENTEN

Type: WK - - -