ME-100 LABORATORY EXTRACTION ARM

DATA SHEET

ME-100 EXTRACTION ARM

DESCRIPTION

The ideal extractor for light industry and laboratory environments.

With its optimal design, the Ø100 mm Movex ME has a very low pressure drop, which provides many valuable benefits.

- Low pressure drop saves energy.
- Air flow noise is reduced.
- Lower pressure drop is achieved without selecting a larger diameter extractor.
- Lower pressure drop allows the ME to be combined with additional extraction systems.

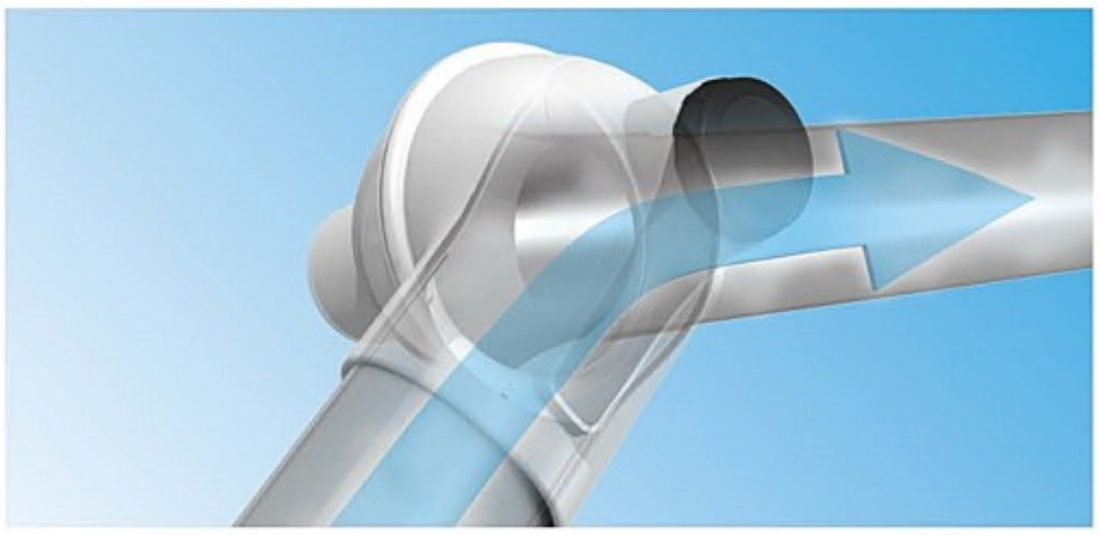
To further facilitate maneuvering of the extractor, the models 1650 and 1900 are equipped with a pulling gas spring as standard and the models 2100 and 2650 with two pulling gas springs.

An easy-to-grip handle facilitates the maneuverability of the extractor. Unique design and stable mounting brackets make the Movex ME your best choice.

ALWAYS CHOOSE A LOW PRESSURE DROP

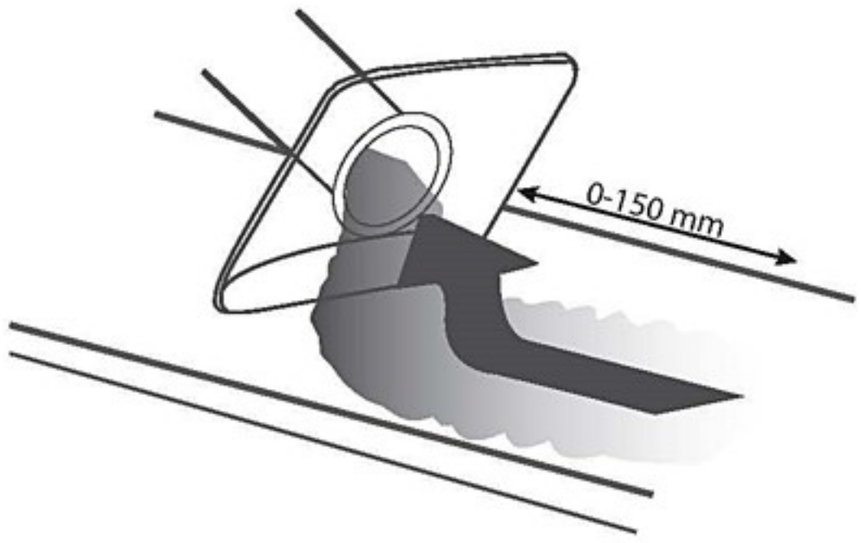
Lowest possible pressure drop is a quality aspect that always should be considered.

With its uniquely designed joint construction, Movex ME combines maximum flexibility with low pressure drop.
The air passes through the joints without creating unnecessary turbulence, thus producing an energy-saving low pressure drop and a quieter working environment.



OPTIMAL CAPTURE

For optimum benefit from the local extractor, it is important to use the flexibility of the extractor to get as close to the contaminant as possible. A good rule of thumb would be a distance of 2–3 times the diameter of the extractor tube. At the recommended air flow, the extractor will provide high efficiency even if disturbances are generated in the surroundings.



ONE ARM. ALL OPTIONS.

Movex ME has a complete range of accessories to suit every situation, enabling you to create the optimal extractor for the evacuation of hazardous airborne gases and particulates.

STANDARD VERSION

Suitable for evacuating most types of airborne contaminants, e.g. in laboratories, schools, hospitals, the pharmaceutical industry, nail salons and light industrial applications.

PP VERSION

Used primarily for evacuating very corrosive contaminants in high concentrations, e.g. in certain laboratories and in the pharmaceutical and chemical industries.

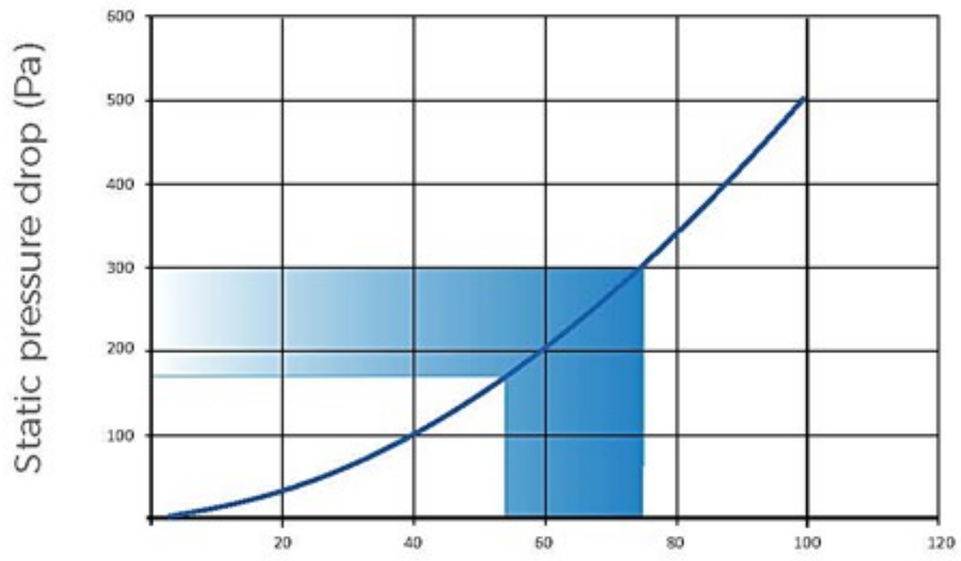
ATEX VERSION

Suitable for evacuating airborne contaminants where there is a requirement for an ATEX-classified environment, e.g. in laboratories, the chemical and petrochemical industries, gas distribution, and the paint and pharmaceutical industries.

RECOMMENDED AIR FLOW

The recommended air flow for a Ø100 arm is 200-300 m³/h. See table and diagram.

ACTIVITY	AIRFLOW	
Laboratories	200-300 m³/h	55-80 l/s
Light industry	300 m³/h	80 l/s

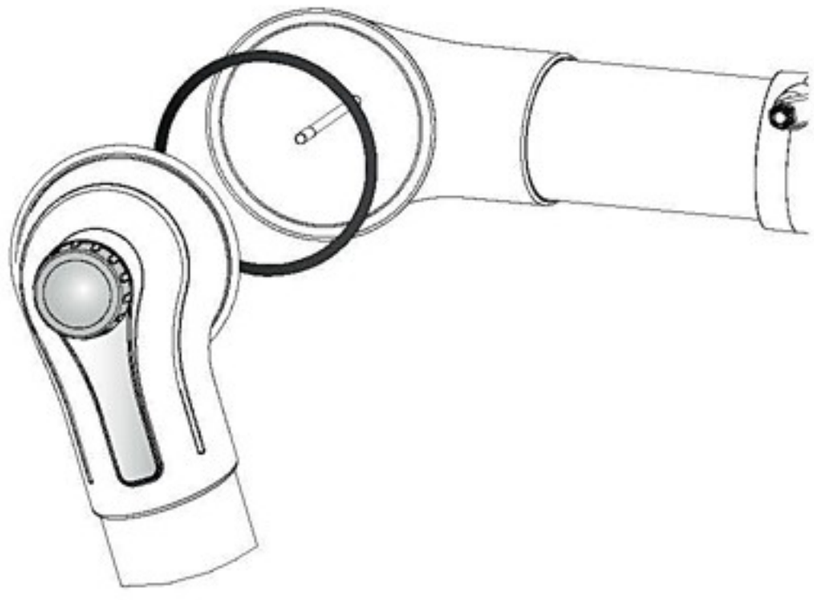


Static pressure drop is measured in accordance with ISO standard 5167-1

UNIQUE BENEFITS

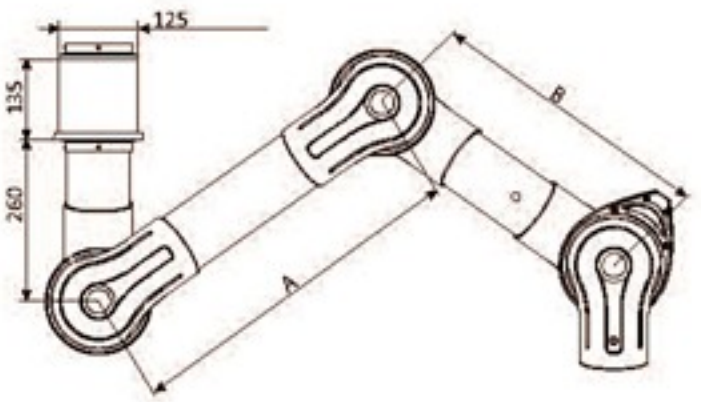
The Movex ME joints have a patented friction design that, combined with the large joint diameter and single grip handle, provide a secure, position-stable arm with smooth adjustments. All without the need to apply excessive force or use tools on the adjusting knob.

Joints with reinforced ends and ball bearings moderate the friction and allow the arm to be moved up and down while maintaining stability and function.



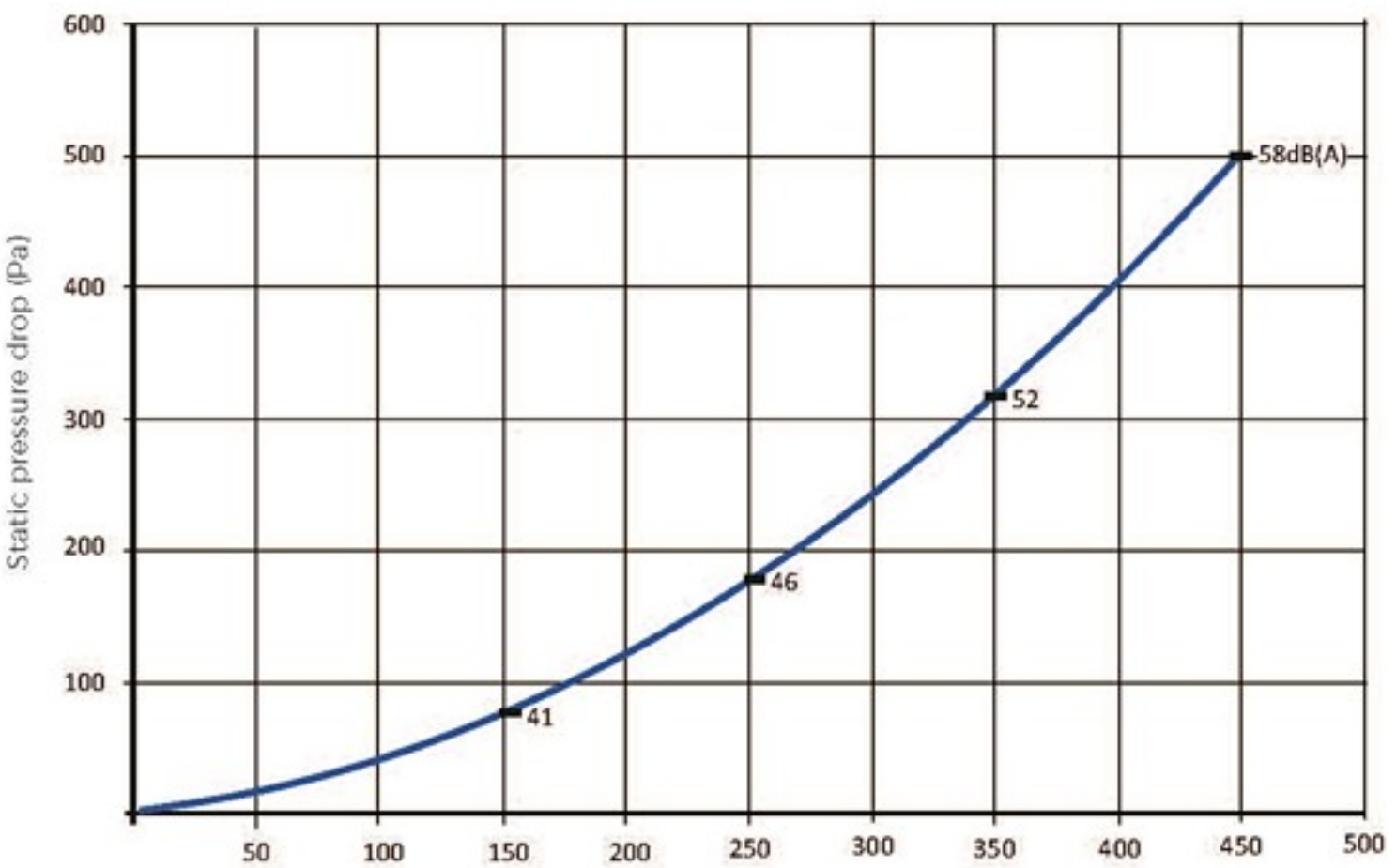
MET FOR CEILING AND WALL MOUNTING, 3 JOINTS

ITEM NO	A (mm)	B (mm)	Ø C (mm)	GAS SPRING pcs	WEIGHT (Kg)
STANDARD					
MET 1150-100	450	350	100	0	4,9
MET 1350-100	550	450	100	0	5,4
MET 1650-100	750	550	100	1	5,9
MET 1900-100	1000	550	100	1	6,4
MET 2100-100	1000	750	100	2	6,9
MET 2650-100	1300	1000	100	2	7,4
PP					
MET 1150-100PP	450	350	100	0	4,9
MET 1350-100PP	550	450	100	0	5,4
MET 1650-100PP	750	550	100	1	5,9
MET 1900-100PP	1000	550	100	1	6,4
MET 2100-100PP	1000	750	100	2	6,9
MET 2650-100PP	1300	1000	100	2	7,4
ATEX					
MET 1150-100EX	450	350	100	0	4,9
MET 1350-100EX	550	450	100	0	5,4
MET 1650-100EX	750	550	100	1	5,9
MET 1900-100EX	1000	550	100	1	6,4
MET 2100-100EX	1000	750	100	2	6,9
MET 2650-100EX	1300	1000	100	2	7,4



MET for ceiling or wall mounting, excluding bracket MTI or MVK-125.

PRESSURE DROP

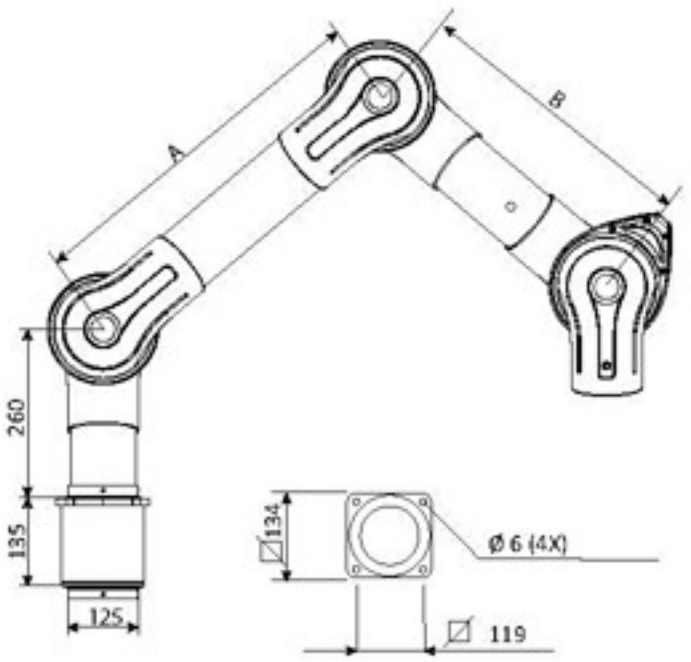


Static pressure drop is measured in accordance with ISO standard 5167-1.
Noise level is measured in accordance with ISO standard 3743.

Indicated sound level refers to sound pressure level.

MEB FOR TABLE MOUNTING, 3 JOINTS

ITEM NO	A (mm)	B (mm)	Ø C (mm)	GAS SPRING pcs	WEIGHT (Kg)
STANDARD					
MEB 1150-100	450	350	100	0	4,9
MEB 1350-100	550	450	100	0	5,4
MEB 1650-100	750	550	100	1	5,9
MEB 1900-100	1000	550	100	1	6,4
PP					
MEB 1150-100PP	450	350	100	0	4,9
MEB 1350-100PP	550	450	100	0	5,4
MEB 1650-100PP	750	550	100	1	5,9
MEB 1900-100PP	1000	550	100	1	6,4
ATEX					
MEB 1150-100PP	450	350	100	0	4,9
MEB 1350-100PP	550	450	100	0	5,4
MEB 1650-100PP	750	550	100	1	5,9
MEB 1900-100PP	1000	550	100	1	6,4



REACH AT RECOMMENDED INSTALLATION HEIGHT

The following installation heights and sideways displacement relative to the work area are recommended for optimal extraction:

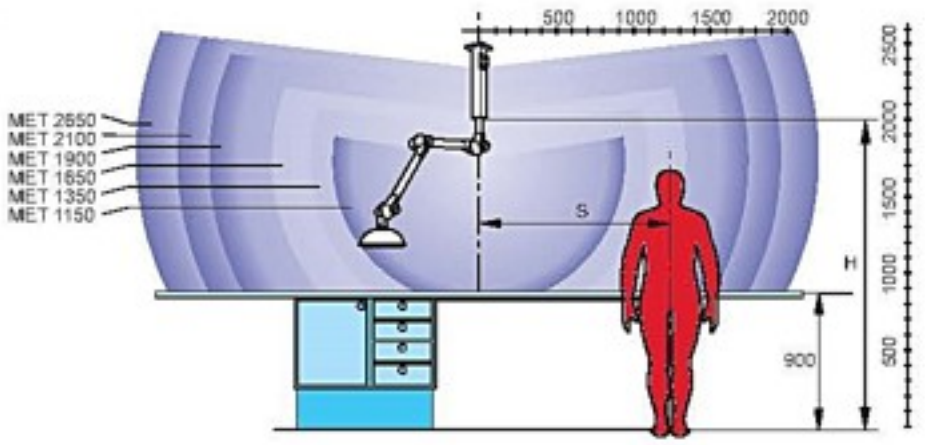
RECOMMENDED INSTALLATION HEIGHT

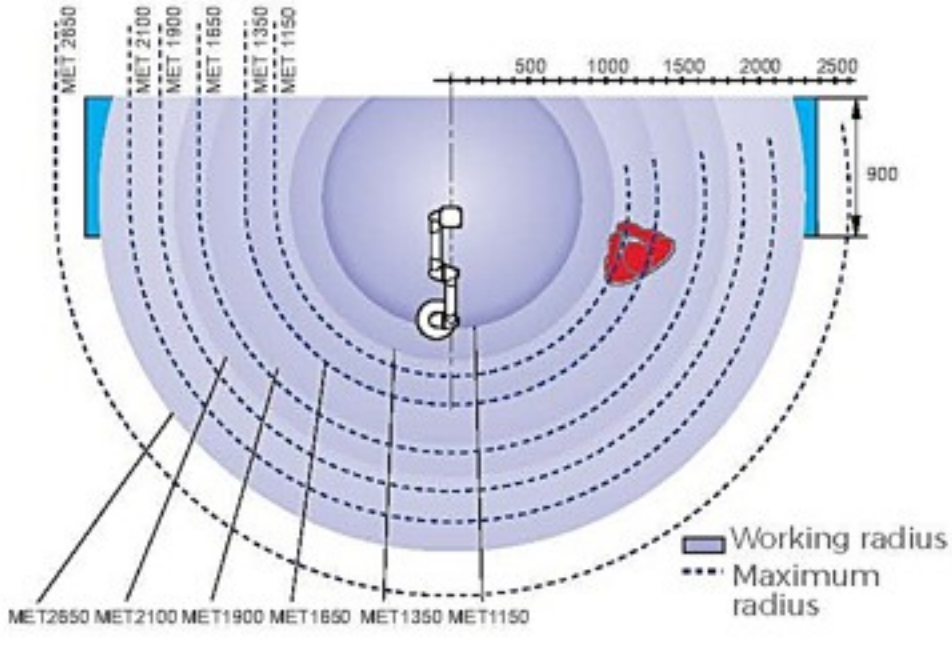
DESIGNATION	H (mm)
MET 1150-100	1700-2000
MET 1350-100	1900-2200
MET 1650-100	2000-2300
MET 1900-100	2200-2500
MET 2100-100	2300-2500
MET 2650-100	2300-2500

RECOMMENDED SIDE DISPLACEMENT

Radius, relative to work area

DESIGNATION	S (mm)
MET 1150-100	300-600
MET 1350-100	400-700
MET 1650-100	500-800
MET 1900-100	700-800
MET 2100-100	700-900
MET 2650-100	900-1300



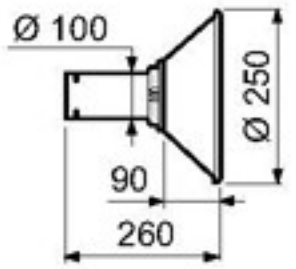


CAPTURE HOODS

MEM METAL HOOD

The metal hood is used when working in corrosive environments and for capturing hot gases and dust splatter. Metal hoods can be fitted with work lighting.
Temp. range: -15˚C to +80˚C
Material: Standard: Powder-coated aluminium / ES: Aluminium

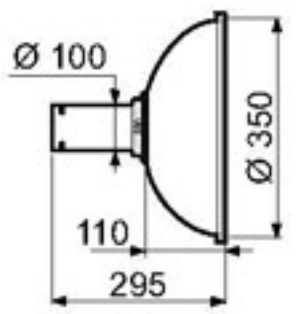
ITEM NO	VARIANTS	WEIGHT (g)
MEM 251-100	PP, ES	510



MEK DOME HOOD

The clear dome hood is suitable for lighter gases with a wider dispersal of contaminants without blocking the user's vision.
Temp. range: -15˚C to +80˚C
Material: Standard: Powder-coated aluminium / ES: Aluminium

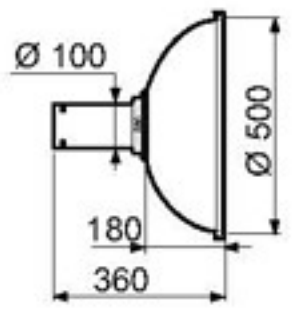
ITEM NO	VARIANTS	WEIGHT (g)
MEK 351-100	PP, EX	610



MEK DOME HOOD

The clear dome hood is suitable for lighter gases with a wider dispersal of contaminants without blocking the user's vision.
Temp. range: -15˚C to +80˚C
Material: Standard: Powder-coated aluminium / ES: Aluminium

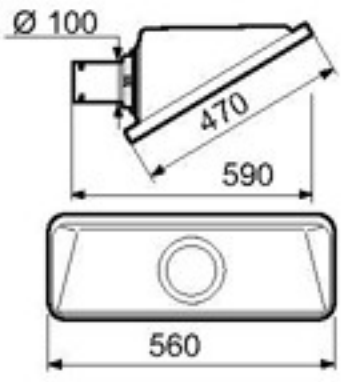
ITEM NO	VARIANTS	WEIGHT (g)
MEK 500-100	PP, EX	735



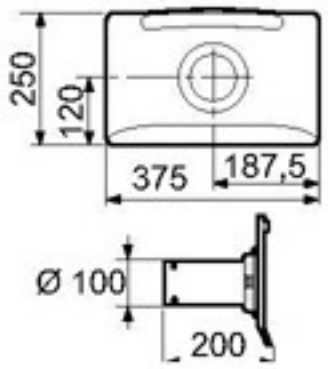
MESH SQUARE HOOD

The square hood is suitable for placing above gases with a high lift, or adjacent to the work surface for contaminants with no lift or low lift – all this without interfering with the work.
Temp. range: -15˚C to +80˚C Material
Standard: PETG

ITEM NO	VARIANTS	WEIGHT (g)
MESH 500-100	-	1125



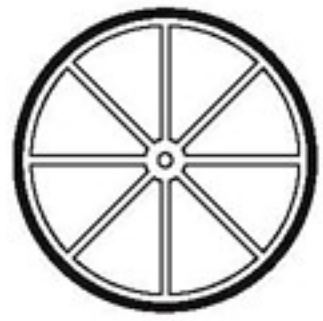
MEPH FLAT SCREEN HOOD



The flat screen hood is designed to maximise the working area without obscuring the object from the user. The flat screen hood gives the best suction effect for table and bench tasks.
Temp. range: -15°C to +80°C
Material: Standard: PETG / ES: PEEL black

ITEM NO	VARIANTS	WEIGHT (g)
MEPH 375-100	PP, ES, EX	625

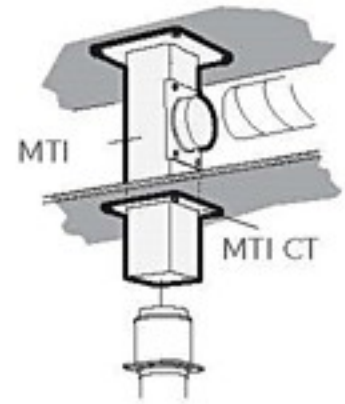
MESG PROTECTIVE GRILLE



Protective grill to be mounted in joints. Prevents objects being sucked into the system. Temperature range: -15°C to +80°C.
Material: Standard, EX: EN 1.4436

ITEM NO	VARIANTS	WEIGHT (g)
MESG-100	EX	12

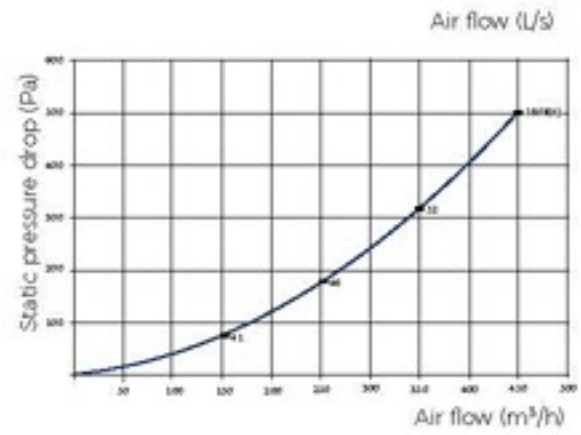
BRACKETS



All Movex laboratory extractors have as standard a full swivel that allows 360° of rotation without the need to add special sleeve couplings.

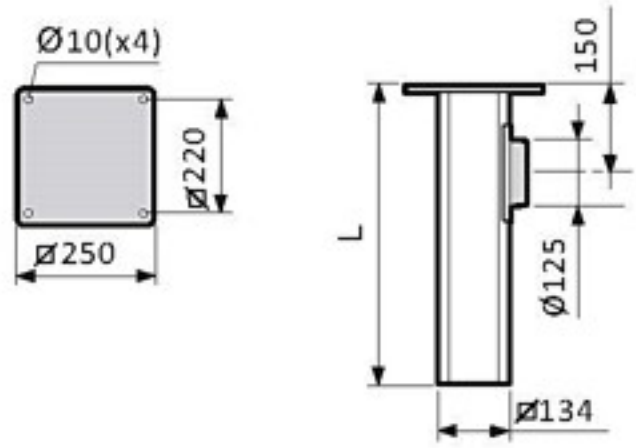
Both ceiling and wall brackets have a special square-shaped profile in anodised aluminium to provide a stylish and stable installation. This aluminum profile also allows both the wall and ceiling brackets to be custom tailored at the job site.

MTI CEILING BRACKET



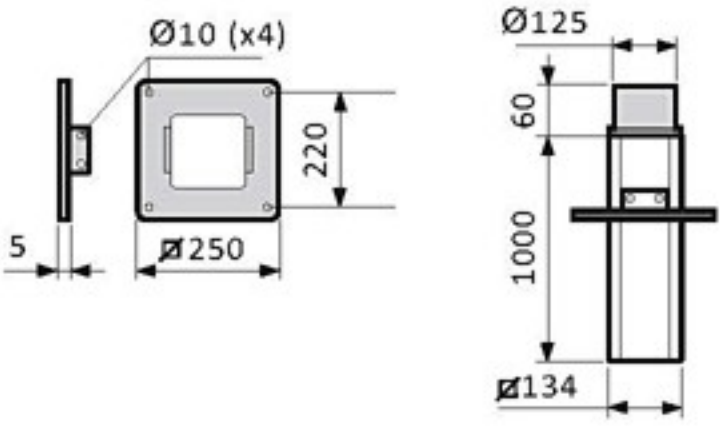
The ceiling bracket functions as a simple and stable duct for outgoing air, avoiding the need for expensive ducting and additional holes through false ceilings. On request, the MTI can be supplied in lengths exceeding 2m.

ITEM NO	DIMENSIONS (mm) L	WEIGHT (Kg)
MTI 500-125	500	4,90
MTI 750-125	750	5,80
MTI 1000-125	1000	6,75
MTI 1250-125	1250	7,65
MTI 1500-125	1500	8,60
MTI 1750-125	1750	9,50
MTI 2000-125	2000	10,40



MTF CEILING BRACKET

Ceiling bracket, for fitting through beams. The attachment plate is adjustable for the entire length of the aluminium profile. If required, the aluminium profile can be cut during fitting.

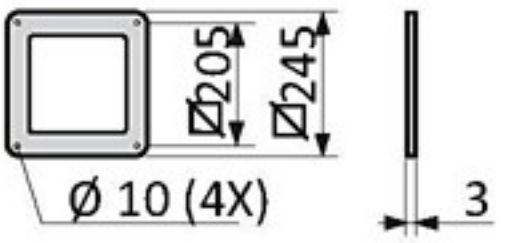


ITEM NO	DIMENSIONS (mm) L	WEIGHT (Kg)
MTF-125	1000	5.50

As well as the standard design, the MTI/MTF is available in an ATEX (EX) version.
The ceiling brackets can be supplied with an epoxy-coated exterior in all lengths up to 3 m (L).
For aggressive environments, we recommend epoxy coating on the interior and exterior up to 1.25 m (IL).

MTI CT ESCUTCHEON PLATE

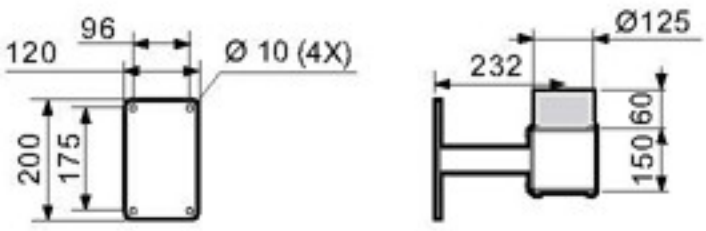
Escutcheon plate, used with the MTI ceiling brackets for stabilisation and to cover ducting in false ceilings. As well as the standard design, the escutcheon plate is available in an ATEX (EX) version.



ITEM NO	WEIGHT (Kg)
MTI-CT-125	0.125

MVK WALL BRACKET

Wall brackets can be special ordered in custom horizontal and vertical lengths. As well as the standard design, the bracket is available in an ATEX (EX) version.



ITEM NO	WEIGHT (Kg)
MTI-CT-125	0.125

TECHNICAL DATA

MATERIAL	DESCRIPTION
Friction Joints	Ball bearing-equipped adjustable friction joints in polypropylene (PP), with guide ring in low friction-treated rubber. Support springs and other component parts in zinc-plated steel or stainless steel.
Tubes	Made from thin-walled anodised aluminium. Air-tight damper supplied as standard.
ME Standard	The standard ME version has polypropylene joints and anodised aluminium tubes. The standard ME version is suitable for evacuating most types of airborne contaminants, e.g. in laboratories, schools, hospitals, the pharmaceutical industry, hairdressing salons and light industrial applications.
ME PP	Polypropylene joints and tube version. All metallic parts that are in contact with the air flow are made of stainless steel. The PP version of the ME is used primarily for evacuating very corrosive contaminants in high concentrations, e.g. in certain laboratories and in the pharmaceutical and chemical industries. When using a PP extractor fitted to a ceiling, we recommend that you order the MTI ceiling bracket with an internal epoxy coating.
ME ATEX 	Conductive polypropylene joints and tubes. All metallic parts that are in contact with the air flow are made of stainless steel. Static electricity is diverted to a separate earth connection. All steel supporting parts are lined in a conductive powder coating. The product meets the requirements of category 2 of the ATEX directive (94/9/EC) for gases and dust. The ATEX version of the ME is suitable for evacuating airborne contaminants where there is a requirement for ATEX-classified products, e.g. laboratories, the chemical and petrochemical industries, gas distribution, and the paint and pharmaceutical industries.
DELIVERY	
MET Ceiling Bracket	Supplied assembled, excluding hood or suction nozzle. The MTI or MTF ceiling brackets should be ordered separately.
MET Wall Bracket	Supplied assembled, excluding hood or suction nozzle. MVK-125 wall bracket should be ordered separately.
MEB Table Bracket	Supplied assembled, with attachment plate for table fitting, excluding hood. The MBF flexible table bracket should be ordered separately.