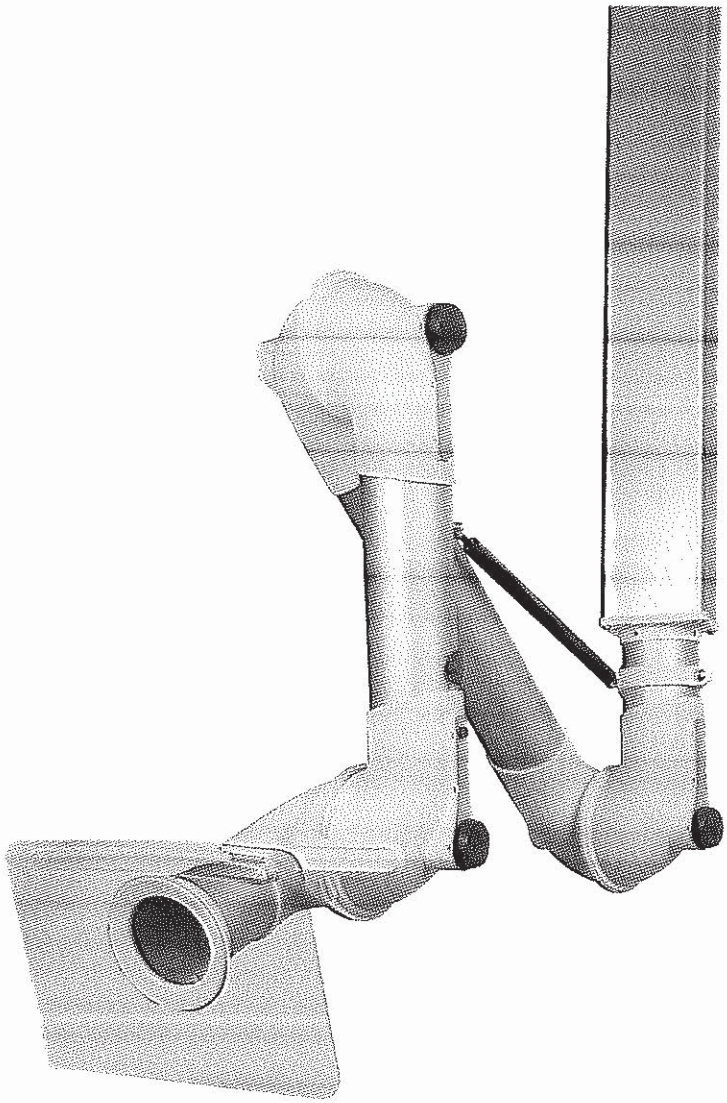
MOVEX® ME 100



The ideal extractor for light industry and laboratory environments.

With its optimal design, Ø 4 inch 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 Support for designing an effective system can be found on page 5, and at www.movexinc.com where you will find our design tool and CAD drawings.

The Movex range also includes fans, accessories, automatic controls and filters suitable for local extraction.

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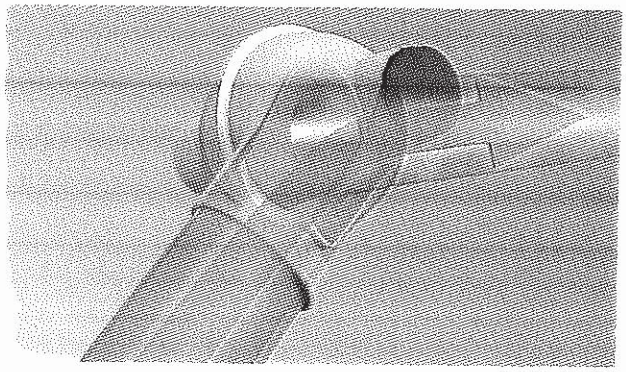
LOCAL EXTRACTION
Pure advantages

MOVEX® ME 100

Always choose a low pressure drop

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

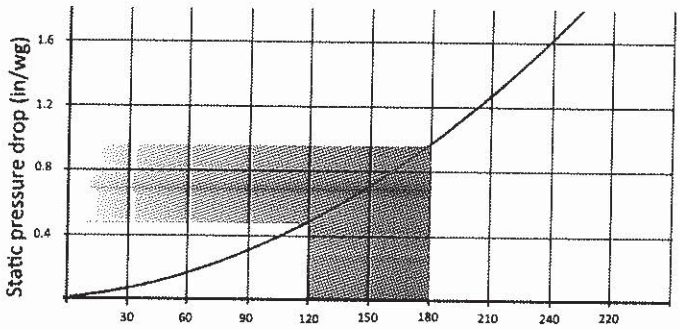
With its uniquely designed joint construction, Movex ME combines maximum flexibility with low pressure drop. The air passes through the joints without creating unnecessary turbulence, thus producing an energy-saving low pressure drop and a quieter working environment.



Recommended air flow

The recommended air flow for a Ø4 arm is 120-180 cfm, See table and diagram.

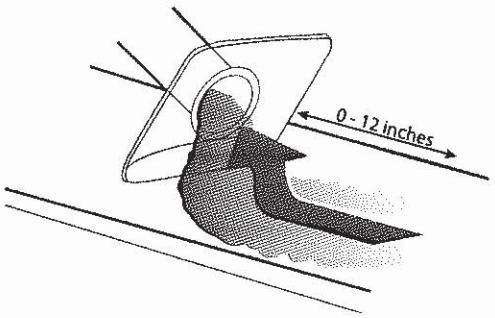
Activity	Air flow
Laboratories	120-180 cfm
Light industry	180 cfm



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

Optimal capture

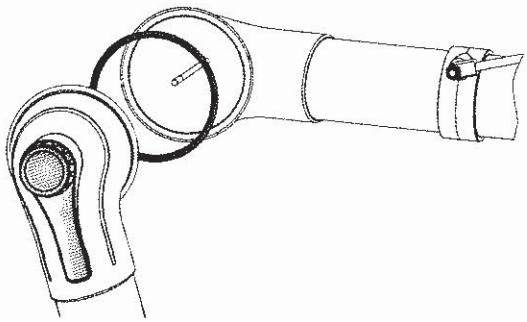
For optimum benefit from the local extractor, it is important to use the flexibility of the extractor to get as close to the contaminant as possible. A good rule of thumb would be a distance of 2–3 times the diameter of the extractor tube. At the recommended air flow, the extractor will provide high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



Unique benefits

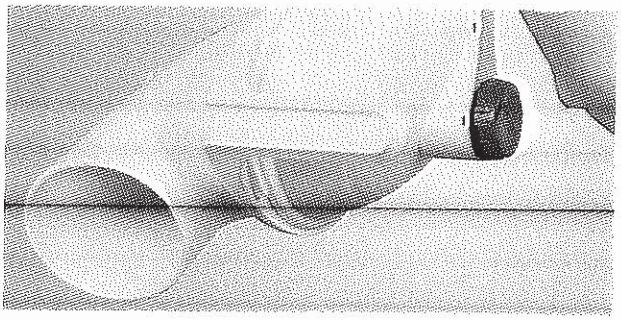
The Movex ME's joints have a patented friction design that, combined with the large joint diameter and single grip handle, provide a secure, position-stable arm with smooth adjustments. All without the need to apply excessive force or use tools on the adjusting knob.

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.



Handle for easy adjustment

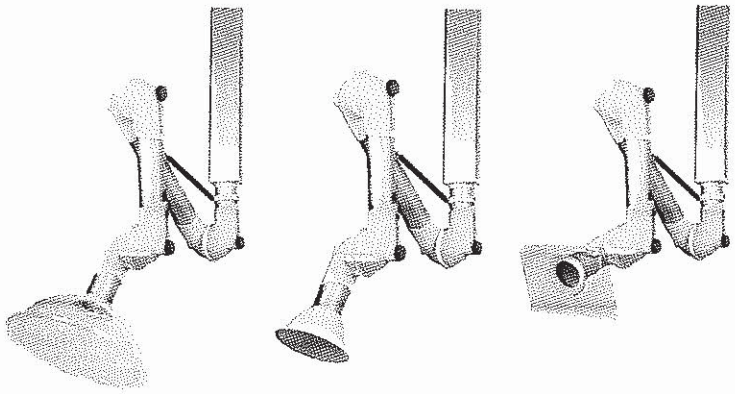
A steady and easily accessible handle, that provides easy adjustment, is fitted as a standard on all models of Movex ME Ø4 inch arm.



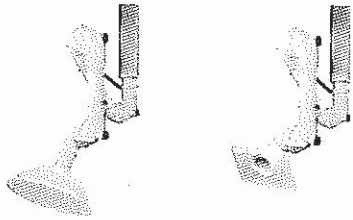
MOVEX® ME 100

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.

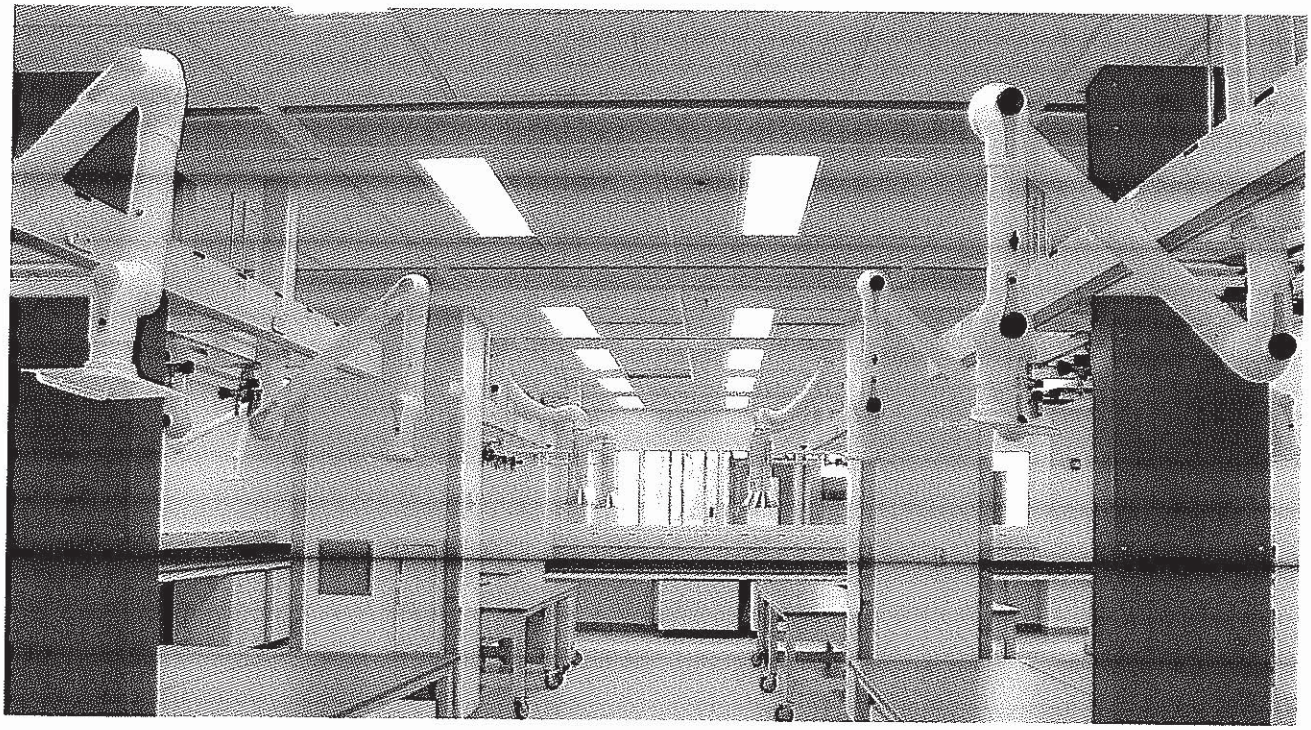


Standard version
Suitable for evacuating most types of airborne contaminants, e.g. in laboratories, schools, hospitals, the pharmaceutical industry, nail salons and light industrial applications.



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.

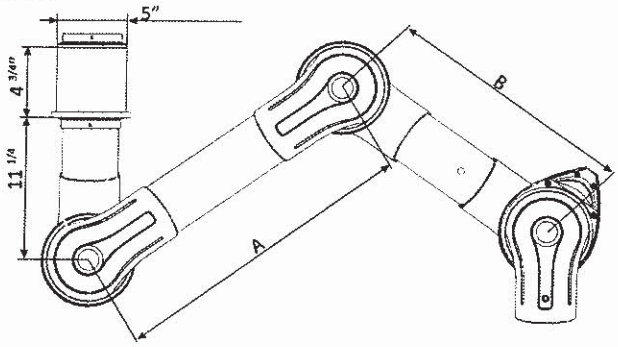


MOVEX ME 100

MET for ceiling and wall mounting, 3 joints

Standard	Size (inches)			Gas spring	Weight
	A	B	ØC	pcs.	(lb)
MET 1150-100	18	14	4	0	10.8
MET 1350-100	22	18	4	0	11.9
MET 1650-100	30	22	4	1	13
MET 1900-100	40	22	4	1	14.1
MET 2100-100	40	30	4	2	15.2
MET 2650-100	52	40	4	2	16.3

MET



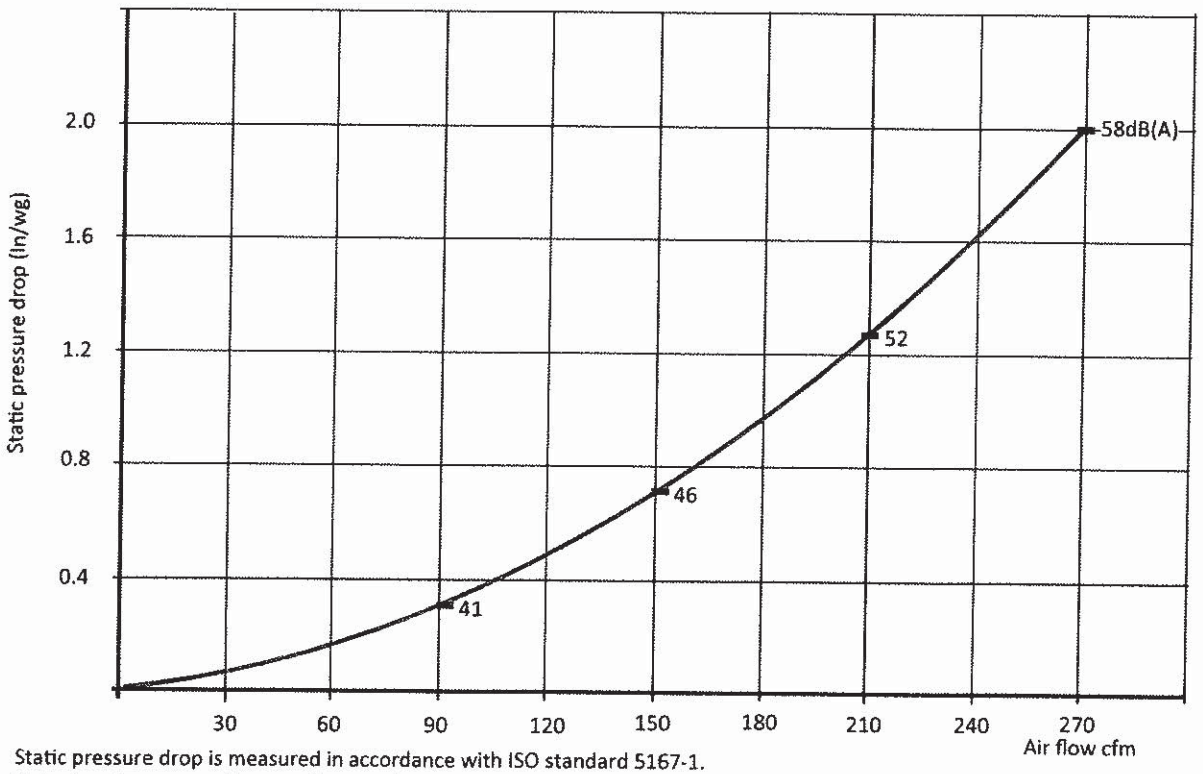
Add MTI bracket for ceiling mounting.
Add MVK bracket for wall mounting.

PP	Size(inches)			Gas spring	Weight
	A	B	ØC	pcs.	(lb)
MET 1150-100PP	18	14	4	0	10.8
MET 1350-100PP	22	18	4	0	11.9
MET 1650-100PP	30	22	4	1	13
MET 1900-100PP	40	22	4	1	14.1
MET 2100-100PP	40	30	4	2	15.2
MET 2650-100PP	52	40	4	2	16.3

ATEX	Size (inches)			Gas spring	Weight
	A	B	ØC	pcs.	(lb)
MET 1150-100EX	18	14	4	0	10.8
MET 1350-100EX	22	18	4	0	11.9
MET 1650-100EX	30	22	4	1	13
MET 1900-100EX	40	22	4	1	14.1
MET 2100-100EX	40	30	4	2	15.2
MET 2650-100EX	52	40	4	2	16.3

	Total length of arm (inches)
ME 1150-100	46"
ME 1350-100	54"
ME 1650-100	66"
ME 1900-100	76"
ME 2100-100	84"
ME 2650-100	106"

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.

MOVEX® ME 100

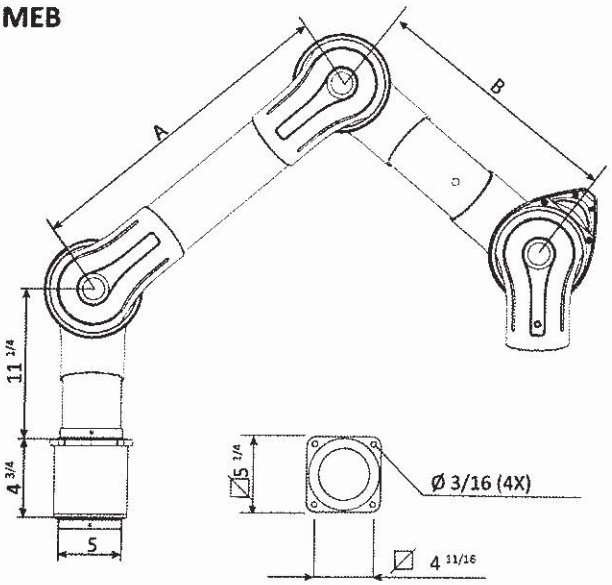
MEB for table mounting, 3 joints

Standard	Size (inches)			Gas spring	Weight
	A	B	Ø C	pcs.	(lb)
MEB 1150-100	18	14	4	0	10.8
MEB 1350-100	22	18	4	0	11.9
MEB 1650-100	30	22	4	1	13
MEB 1900-100	40	22	4	1	14.1

PP	Size (inches)			Gas spring	Weight
	A	B	Ø C	pcs.	(lb)
MEB 1150-100PP	18	14	4	0	10.8
MEB 1350-100PP	22	18	4	0	11.9
MEB 1650-100PP	30	22	4	1	13
MEB 1900-100PP	40	22	4	1	14.1

ATEX	Size (inches)			Gas spring	Weight
	A	B	Ø C	pcs.	(lb)
MEB 1150-100EX	18	14	4	0	10.8
MEB 1350-100EX	22	18	4	0	11.9
MEB 1650-100EX	30	22	4	1	13
MEB 1900-100EX	40	22	4	1	14.1

MEB



Reach at recommended installation height

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

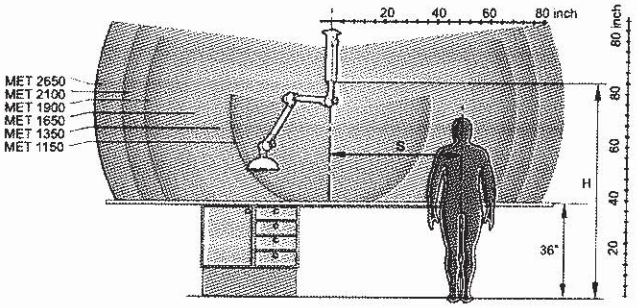
Recommended installation height

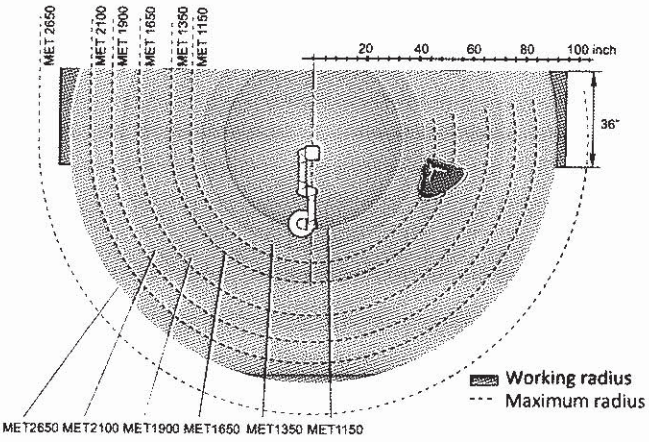
Designation	H (inches)
MET 1150-100	68-76
MET 1350-100	76-84
MET 1650-100	80-88
MET 1900-100	88-96
MET 2100-100	92-100
MET 2650-100	92-100

Recommended side displacement

radius, relative to work area

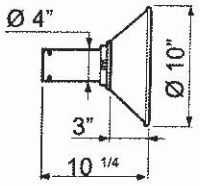
Designation	S (inches)
MET 1150-100	12-24
MET 1350-100	16-28
MET 1650-100	20-32
MET 1900-100	28-32
MET 2100-100	28-36
MET 2650-100	32-36





MOVEX ME 100

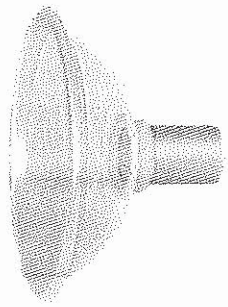
Hoods

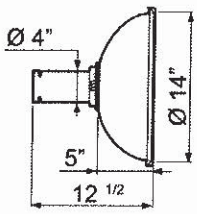


METAL HOOD
The metal hood is used when working in corrosive environments and for capturing hot gasses and dust splatter.
Metal hoods can be fitted with work lighting.
Temp. range: -5°F to +176°F

Standard	Variants	Weight (oz)
MEM 251-100	PP, EX	18

Material
Standard/PP: Powder-coated aluminum
EX Powder-coated aluminum

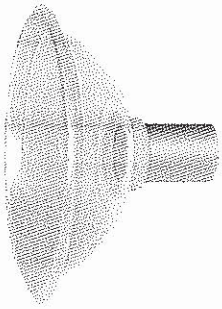


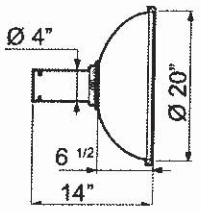


DOME HOOD
The clear dome hood is suitable for lighter gasses with a wider dispersal of contaminants without blocking the user's vision.
Temp. range: -5°F to +176°F

Standard	Variants	Weight (oz)
MEK 351-100	PP,EX	21.5

Material
Standard: PMMA
PP Polypropylene, transparent
EX PEEL black

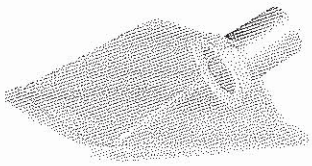


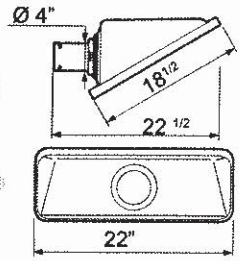


DOME HOOD
The larger clear dome hood is also suitable for lighter gasses with an even wider dispersal of contaminants, still without blocking the user's vision.
Temp. range: -5°F to +176°F

Standard	Variants	Weight (oz)
MEK 500-100	PP,EX	26

Material
Standard: PMMA
PP Polypropylene, transparent
EX PEEL black

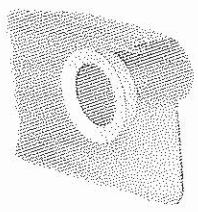


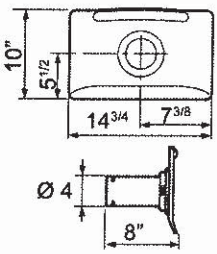


SQUARE HOOD
The square hood is suitable for placing above gases with a high lift, or adjacent to the work surface for contaminants with no lift or low lift – all this without interfering with the work.
Temp. range: -5°F to +176°F

Standard	Variants	Weight (oz)
MESH 500-100		40

Material
Standard: PETG





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: -5°F to +176°F

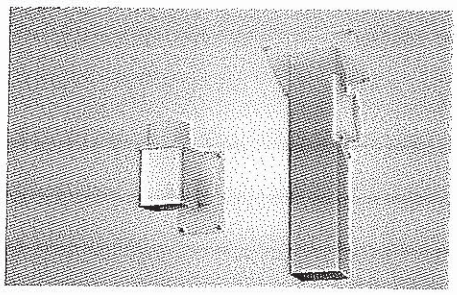
Standard	Variants	Weight (oz)
MEPH 375-100	PP,ES, EX	22

Material
Standard: PETG
PP Polypropylene
EX PEEL black

PROTECTIVE GRILL
The protective grill (mounted in the first joint) keeps objects out of the extractor.
Temp. range: -5°F to +176°F

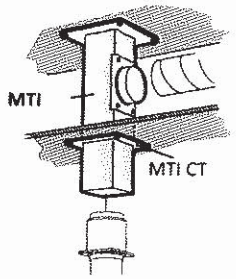
Standard	Variants	Weight (oz)
MSG-100	EX	0.40

Brackets



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

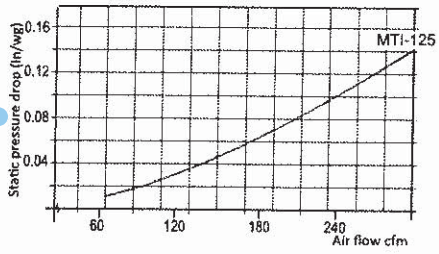
Both ceiling and wall brackets have a special square-shaped profile in anodized aluminum to provide a stylish and stable installation. This aluminum profile also allows both the wall and ceiling brackets to be custom tailored at the job site.

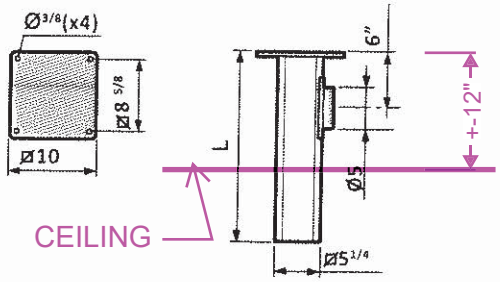


The MTI ceiling bracket

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 80 inches.**

Standard	Dimensions (inches) L	Weight (lb)
MTI 500-125	20	10.8
MTI 750-125	30	12.8
MTI 1000-125	40	14.8
MTI 1250-125	50	16.8
MTI 1500-125	60	18.8
MTI 1750-125	70	20.8
MTI 2000-125	80	22.8



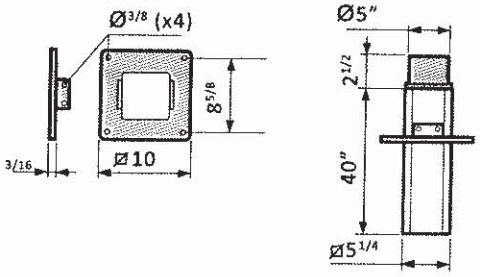


The MTF ceiling bracket

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

Standard	Dimensions (inches) L	Weight (lb)
MTF-125	40	9.3

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.
For aggressive environments, we recommend epoxy coating on the interior and exterior.

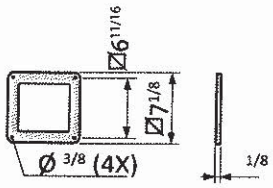


The MTI CT escutcheon plate

Escutcheon plate, used with the MTI ceiling brackets for stabilization and to cover the rough cut in the false ceiling.

Standard	Weight (oz)
MTI CT-125	4.4

As well as the standard design, the escutcheon plate is available in an ATEX (EX) version.

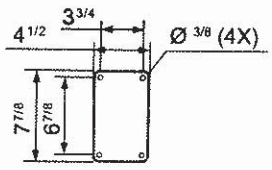


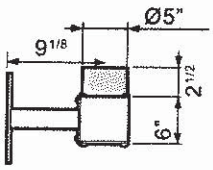
MVK wall bracket

Wall brackets can be special ordered in custom horizontal and vertical lengths.

Standard	Weight (lb)
MVK-125	3.4

As well as the standard design, the wall bracket is available in an ATEX (EX) version.





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 anodized aluminum or from polypropylene. Air-tight damper supplied as standard.

ME Standard
The standard ME version has polypropylene joints and anodized aluminum tubes.
The standard ME version is suitable for evacuating most types of airborne contaminants, e.g. in laboratories, schools, hospitals, the pharmaceutical industry, nail salons and light industrial applications.

ME PP
Polypropylene joints and tubes 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 grounded 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

Ceiling/ Wall MET	Supplied assembled, excluding hood. The ceiling or wall brackets should be ordered separately.
Table-MEB	Supplied assembled, with attachment plate for table fitting, excluding hood. The MBF flexible table bracket should be ordered separately.

MOVEX®
104 Commerce Drive, Northampton, PA 18067, USA
Phone: 610 440-0478, Fax: 610 440-0480
www.movexinc.com info@movexinc.com

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

123553-001 REV 2
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

123553
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ○ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

- ◉ Action
- ○ Information Only
- ○ Record

REMARKS OR DEVIATIONS

Samples currently being produced, engineering judgement to confirm seismic requirements being calculated.

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

DEVIN D GATES — 1/31/17
REVIEWED BY — DATE

To be completed by Reviewer

12 3553-001 REV003
CANNON DESIGN SUBMITTAL NUMBER

2/1/17
RECEIVED DATE

- ○ A. No Exceptions Taken
  No further review of submittal is required.
- ◉ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ○ See attached sheet(s) for additional comments

RE-SUBMIT AS SEPARATE SUBMITTAL ONLY THE NON-APPROVED ITEMS.

SEE MARKUPS AND GENERAL COMMENTS ON NEXT PAGE.

APPROVAL OF MOBILE LABORATORY CASEWORK SYSTEM CONTINGENT ON APPROVED MANUFACTURER PER SPECIFICATIONS. PROVIDE SEPARATE SUBMITTAL CONFIRMING MANUFACTURER.

Kelvin Patel — Digitally signed by Kelvin Patel DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design, OU=Architect, CN=Kelvin Patel Date: 2017.02.14 21:02:29-06'00' — 2/14/17
REVIEWED BY — DATE

GENERAL COMMENTS:

-ALL LAB CASEWORK TO MEET PERFORMANCE REQUIREMENT INFORMATION PER SPECIFICATION (SPEC.) 123553,1.3,A.

-TABLES TO MEET UL REQUIREMENT PER SPECIFICATION 123553,1.3,D.

-EW, DH & PRE-RINSE FIXTURE APPROVAL ON HOLD.

-ALL CABINETS (WOOD, METAL, FLAMMABLE, ACID) TO BE FLUSH OVERLAY.

-PRODUCT DATA FOR MOBILE LAB CASEWORK SYSTEM WHICH WAS PRESENT IN PREVIOUS SUBMITTAL WAS DELETED IN THIS RE-SUBMITTAL. THE MOBILE LABORATORY CASEWORK SYSTEM IS APPROVED PROVIDED IT IS ONE OF THE APPROVED MANUFACTURER PER SPECIFICATIONS, JAMESTOWN METAL PRODUCTS PER PREVIOUS SUBMITTAL. PROVIDE WRITTEN CONFIRMATION TO DOCUMENT THE MANUFACTURER & PRODUCT MEETS SPECIFICATIONS.

-PROVIDE WHITE COLOR CYLINDER RACKS.

-ALL PRE-WIRED TABLES CONNECTING TO FLOOR BOXES TO HAVE STANDARD ELECTRICAL PLUG.

-COORDINATE ALL ELECTRICAL OUTLETS WITH ELECTRICAL DRAWING & SPECIFICATIONS. TECHNICAL SPECIFICATIONS PER ELECTRICAL DRAWINGS.

PROVIDE SEPARATE SUBMITTAL FOR FOLLOWING:
-PROVIDE LOAD CAPACITY OF TABLES.

-PROVIDE SEPARATE SUBMITTAL OF TEST REPORTS FOR COUNTERTOP PER SPEC. 123553,1.5,C.

-HEAVY DUTY SLIDE PRODUCT DATA FOR GRADE 1HD-100 & 1HD-200 PER SPEC. 123553,2.12,E.

-PROVIDE PRODUCT DATA FOR V-5 AND A-5 (QUICK DISCONNECTS).

-PROVIDE PRODUCT DATA FOR E-5, E-6, D-5, D-6

-PROVIDE PRODUCT DATA FOR PAPER TOWEL DISPENSER.

-PROVIDE PRODUCT DATA FOR OVERHEAD SERVICE CARRIER & MOBILE LABORATORY CASEWORK SYSTEM (IDENTIFY MANUFACTURER).

-PROVIDE PRODUCT DATA FOR EPOXY COUNTERTOPS.

-PROVIDE SAMPLE & INFORMATION RELATED TO SIGNAGE FOR ACID (CORROSIVES) & FLAMMABLE CABINETS - CONSISTENT CLEAN GRAPHICS LETTERING.

-PROVIDE WHITE COLOR CYLINDER RACKS.

-ALL PRE-WIRED TABLES CONNECTING TO FLOOR BOXES TO HAVE STANDARD ELECTRICAL PLUG.

INSTITUTIONAL CASEWORK, INC.
1865 Highway 641 North
Paris, Tennessee 38242-8814
(731) 642-4251

DATE: 1/25/2017
JOB: 04437A, B, C, D

RE: Webster University
Webster Groves, MO

TO: Carroll Seating

ATTENTION: Eddie Scheer/Amanda Kohlbrecher

We are forwarding the following via FTP SITE:

- [●] For Approval
- [ ] For Your Use
- [ ] For Review and Comment
- [ ] Returned for Corrections
- [ ] As Requested
- [●] Return 1 Prints and Sets

COPIES	DATE	NO.	DESCRIPTION
1	1/25/17	04437AR1-E2 and 04337BR1-E4	Rough-In & Elevation Shop Drawings
1	1/25/17	04437DETAILS1 & 04437DETAILS2	Cabinet Sections
1	1/25/17	04437OHSC	OHSC detail/quantities Sheet
1	1/25/17	Set	Project Data Document

REMARKS:

We cannot schedule this project until we receive one copy indicating:

- ☐ Approval
- ☐ Casework finish
- ☐ Field dimensions

If you have any questions, please feel free to call.

CC:

BY: Mitzi A. Hutter

If enclosures are not as noted, kindly notify us at once.