



People who ever lit a match know that it is very easy to put off the match fire by a simple blow. However, if one were to "inhale" instead of "exhalation", one would find it somewhat hard to extinguish the fire unless one's mouth is close enough, with a risk of burning one's lips.

The analogy mentioned above leads us to an important concept -- Not only sufficient airflow suction is necessary for fume evacuation, but it is also essential to collect pollution near the source when/where the fume occurs.

Manufacturer:

Ultra Labs (Shanghai) Scientific, Inc.

Distributor:



LABPRO Lab Ventilation Technology



Convenient
Flexible
Convenient
Durable

LPV1/LPV1+/LPV2/LPV2+ Fume Extractor

Sweeping
pollution near its origin is the
most effective and energy efficient approach.

LPV1/LPV1⁺/LPV2/LPV2⁺ Series Fume Extractor

LPV1/LPV1⁺/LPV2/LPV2⁺ Fume Extractor is designed with adjustable joints for the use in worksites where locally large amount of fume exhaust is required, eg, laboratories, hospitals, schools, pharmaceutical and electronics industries, etc.

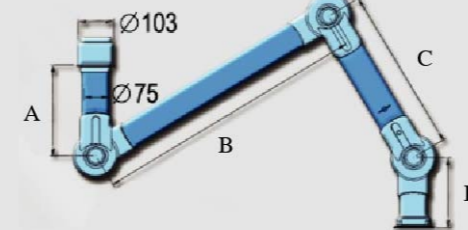
Polluted air generated locally can be evacuated immediately by the fume extractor with extraordinary flexibility and efficiency. In addition to maintaining air quality, energy conservation can also be realized by the use of fume extractors in the workplace.

Vertical flame resistance of LPV1⁺ and LPV2⁺ series fume extractor conforms to Chinese National Standard GB/T 2408 FV-0 and American Standard UL94 V-0.

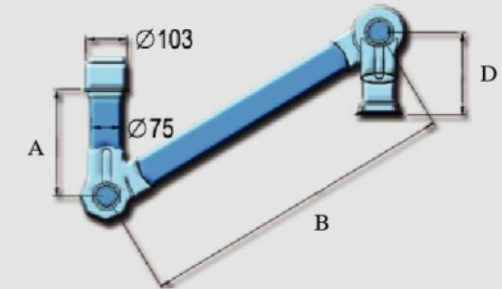


Convenient, Flexible, Efficient, Durable

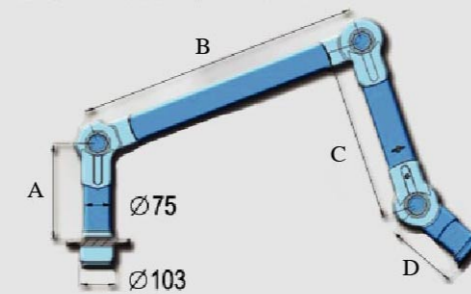
Ceiling / Wall Mounting, 4-Section



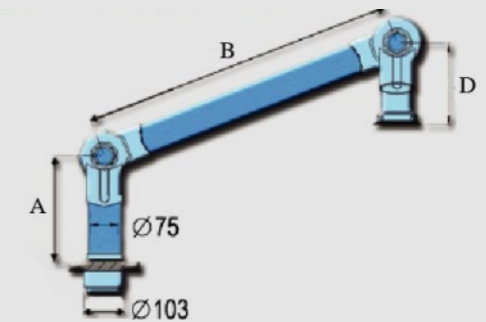
Ceiling / Wall Mounting, 3-Section



Bench / Floor Mounting, 4-Section



Bench / Floor Mounting, 3-Section



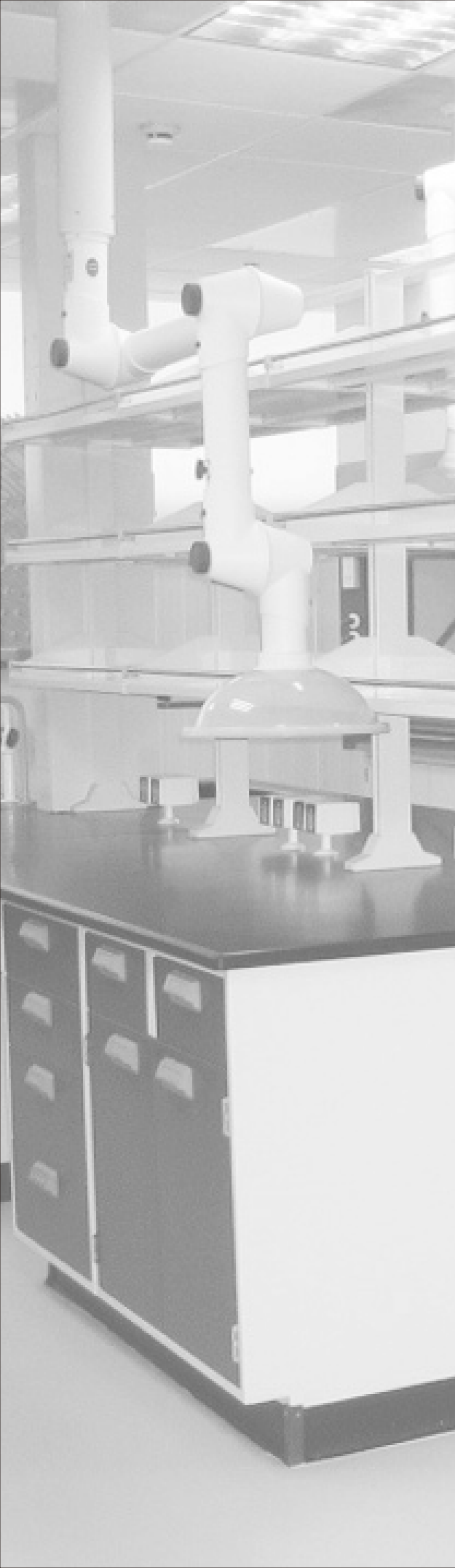
LPV1/LPV1⁺/LPV2/LPV2⁺ Fume Extractor adopts modular design with standard 4-section and 3-section choices. Its components can be easily disassembled for cleaning and maintenance purposes.

- Every flexible joint is accompanied with an adjusting knob, a low friction ring and a synchronizing bearing to facilitate joint tightness and sustainability that could deal with frequent rotation and maneuver for routine use. All it takes is one hand to adjust the knob such that just-right joint tension is achieved.

- All joints and pivots are of standard full-swivel design that allows 360° rotation. The user can move the dome hood to any position required within operation radius of the fume extractor. The first joint is equipped with an interior supporting spring to sustain the overall weight of the exhaust arm at required position.

- A built-in manual damper that comes with buckle positioning feature is designed to adjust the air flow. The user can identify the damper opening by observing the knob position. The damper blade edge is made of elastic plastic material with perfect airtight performance when fully turned off.





LPV1 Series

Type	Model	Size				Weight
		A	B	C	D	
4-Section	4T-155-75-PP	247mm	770mm	460mm	200mm	2.69kg
	4T-170-75-PP	247mm	770mm	580mm	230mm	2.78kg
	4T-165-75-PP	530mm	520mm	400mm	200mm	2.75kg
	4T-130-75-PP	180mm	520mm	400mm	200mm	2.52kg
3-Section	3T-112-75-PP	247mm	770mm	N/A	230mm	2.01kg

LPV1+ Series

Type	Model	Size				Weight
		A	B	C	D	
4-Section	4T-155-75-FR-PP	247mm	770mm	460mm	200mm	3.74kg
	4T-170-75-FR-PP	247mm	770mm	580mm	230mm	3.89kg
	4T-165-75-FR-PP	530mm	520mm	400mm	200mm	3.84kg
	4T-130-75-FR-PP	180mm	520mm	400mm	200mm	3.52kg
3-Section	3T-112-75-FR-PP	247mm	770mm	N/A	230mm	2.65kg

LPV2 Series

Type	Model	Size				Weight
		A	B	C	D	
4-Section	4T-155-75-AL/PP	247mm	770mm	460mm	200mm	3.52kg
	4T-170-75-AL/PP	247mm	770mm	580mm	230mm	3.64kg
	4T-165-75-AL/PP	530mm	520mm	400mm	200mm	3.61kg
	4T-130-75-AL/PP	180mm	520mm	400mm	200mm	3.32kg
3-Section	3T-112-75-AL/PP	247mm	770mm	N/A	230mm	2.50kg

LPV2+ Series

Type	Model	Size				Weight
		A	B	C	D	
4-Section	4T-155-75-AL/FR-PP	247mm	770mm	460mm	200mm	3.60kg
	4T-170-75-AL/FR-PP	247mm	770mm	580mm	230mm	3.72kg
	4T-165-75-AL/FR-PP	530mm	520mm	400mm	200mm	3.69kg
	4T-130-75-AL/FR-PP	180mm	520mm	400mm	200mm	3.40kg
3-Section	3T-112-75-AL/FR-PP	247mm	770mm	N/A	230mm	2.56kg

Note: The weight listed excludes the weight of hoods. Please refer to the following *Dome Hood Specification* for such details.

The tubing construction comes with polypropylene (PP) of chemical resistance, flame-retardant PP of chemical & heat resistance or passivated aluminum alloy, while PP, Translucent PP, Flame-retardant PP and Transparent PC are available for the selection of dome hood.

- Supporting spring and joint shaft exposed to corrosive fume within the tube are made of #304 stainless steel to ensure its durability.

- Within standard operational air flow rates (150 m³/h ±10%), pressure loss thru the fume extractor (tubing inner dia.: 3") varies from 215 to 300 Pa (4-section) or from 175 to 260 Pa (3-section) for ceiling mount. For bench mount, the pressure loss ranges from 175 to 260 Pa (4-section) or from 125 to 190 Pa (3-section).

Note: Please refer to the *Pressure Drop Diagram* for details.

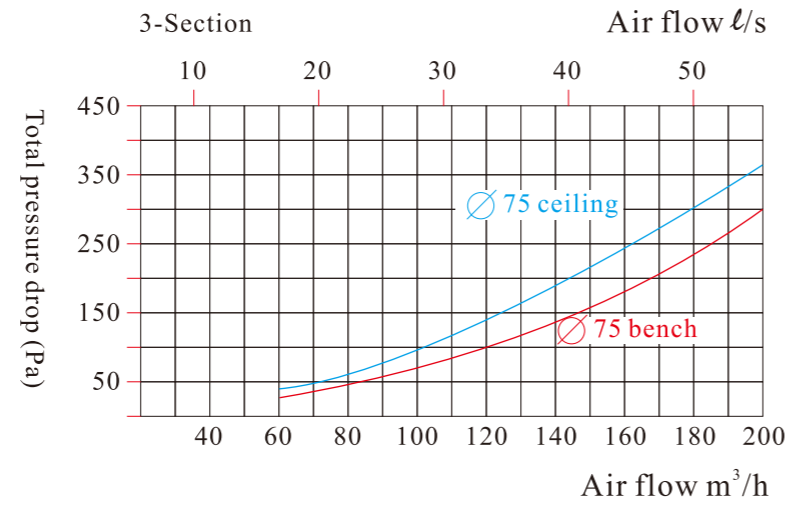


Material Specification

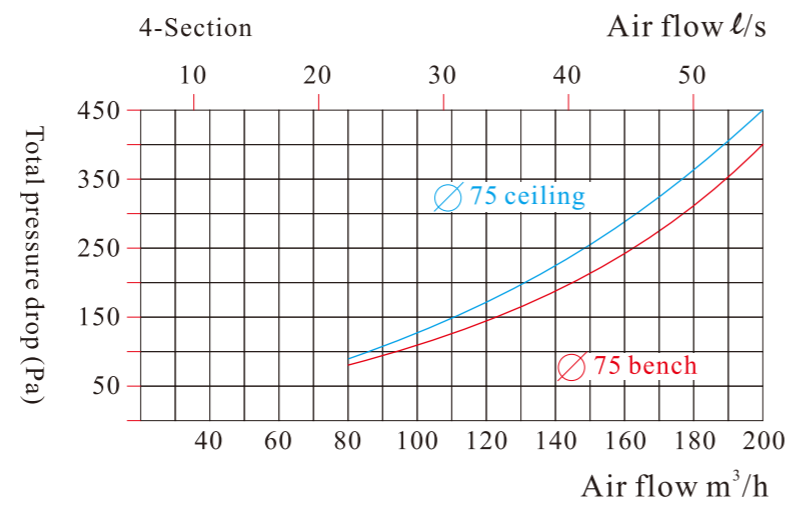
Component \ Material	LPV1 Series	LPV1+ Series	LPV2 Series	LPV2+ Series
Pivot Placing Ring & Sleeve	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)
Tubing Inner Dia.: 3" (75mm)	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)	Passivated Aluminum Alloy	Passivated Aluminum Alloy
Joint	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)
Hood Fastening Ring	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)
Damper	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)	Polypropylene	Flame-retardant PP (GB/T 2408 FV-0, UL94 V-0)
Airtight Damper Blade Edge	Thermoplastic Rubber (TPR)			
Joint Knob	Nylon			
Damper Knob	Nylon			
Joint Friction Ring	Thermoplastic Rubber with Low Friction Treatment			
Joint Shaft Bracket	Nylon			
Joint Shaft	#304 Stainless Steel			
Supporting Spring	#304 Stainless Steel			
Damper Shaft	#304 Stainless Steel			

Pressure Drop Diagram

3-Section Fume Extractor

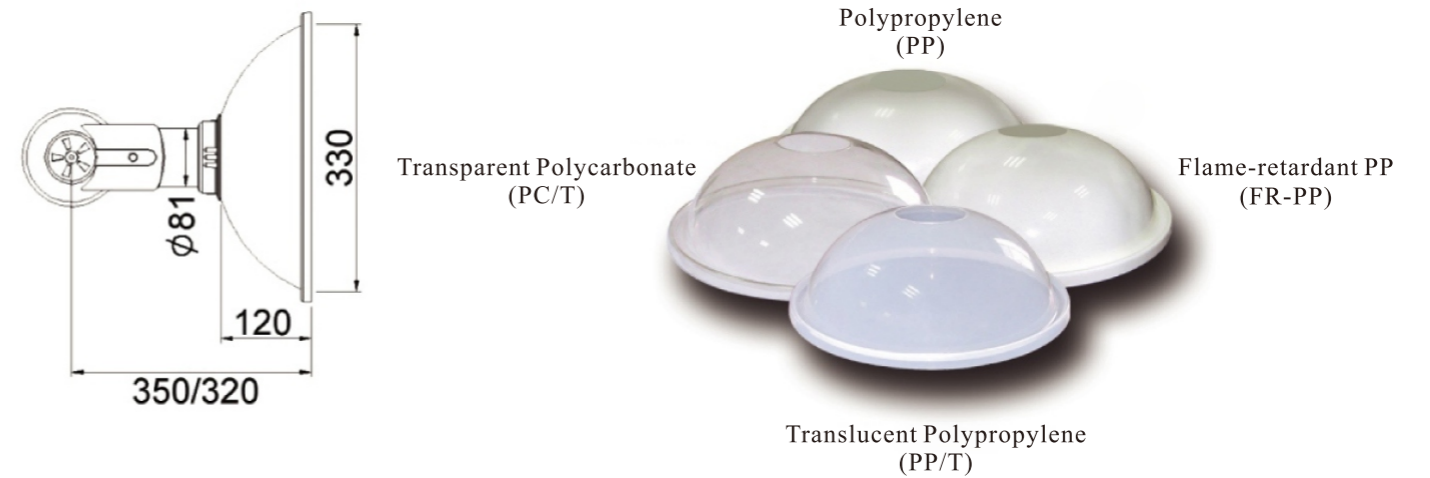


4-Section Fume Extractor



Dome Hood Specification

Model	DH-75-PP	DH-75-FR-PP	DH-75-PP/T	DH-75-PC/T
Size	Ø330 x H120 mm	Ø330 x H120 mm	Ø330 x H120 mm	Ø330 x H120 mm
Material	Polypropylene (PP)	Flame-retardant PP (FR-PP)	Polypropylene (PP)	Polycarbonate (PC)
Weight	305g	475g	305g	435g
Type	Dome (White)	Dome (White)	Dome (Translucent)	Dome (Transparent)



Suggested Design Air Flow

Worksite	Usage	Suggested Air Flow (m³/h)
Welding	Small Amount	75
	Large Amount	150
Laboratory	Standard (Regular)	150
	Hot / Boiling Liquid	More Than 150
	Stirring Liquid	No Less Than 150
	Small Amount of Contamination	Less Than 150
	Covering Contamination	Less Than 150

Note: These values are based on field experiences for reference purpose only. The flow rates may be subject to change per actual requirement.

Mounting Bracket Description

- Choice of mounting bracket depends on the installation site conditions, including equipment/instrument locations and ductwork setup.
- Made of powder coated cold rolled steel or #304 stainless steel, the mounting brackets come with various types for different scenarios shown below.

Wall Mount Bracket



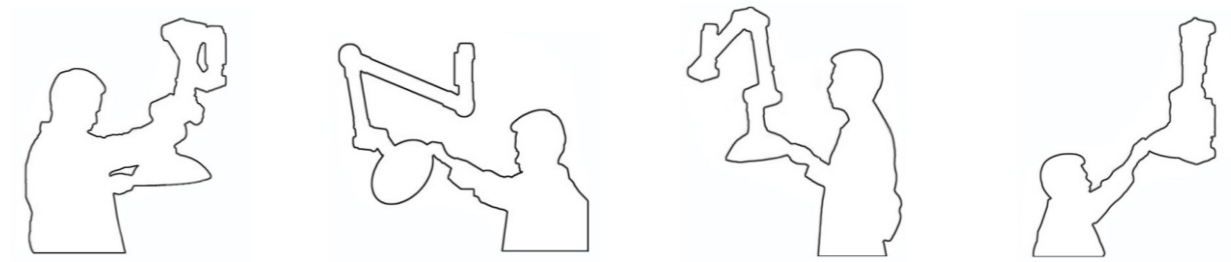
Suspended Ceiling Combo Bracket



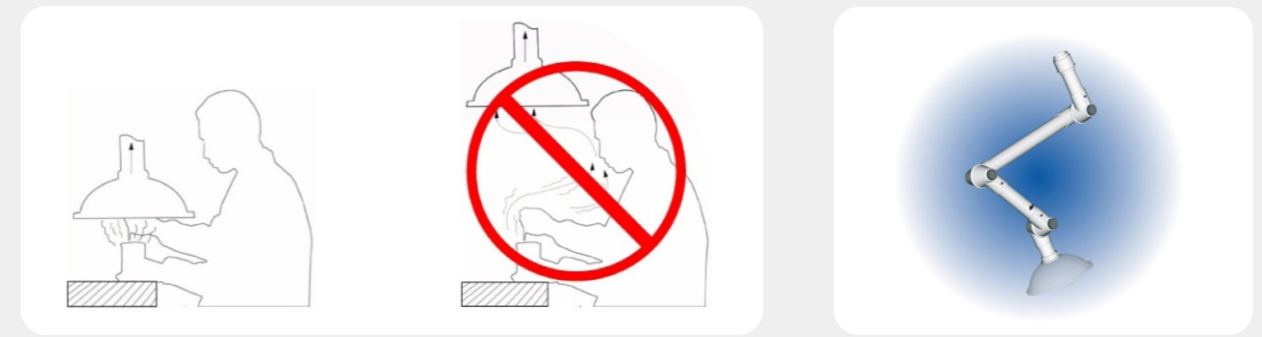
Ceiling Mount Bracket



Bench / Floor Mount Bracket



Recommended Operating Practice



Product Explosion Diagram

