

**Operation and Maintenance**



- To release the tension on the telescopic spring the arm must be pushed upwards and the stop nut pushed towards the hood.
- When replacing the telescopic spring the stop nut end needs to be installed towards the hood.



- Do not move the arm beyond the perceptible resistance.
- Do not push standing arm models outside the vertical axis of rotation swivel.

**RECOMMENDED ACTIONS DURING FUME ARM OPERATIONS:**

Each week: check overall condition of the device including self-locking properties and the condition of the hoses. On a monthly basis lubricate rotating swivel with neutral to aluminum machine grease. Every year - remove the hoses and clean the inside of the arm. IAP recommends to adjust the frequency of inspections of the arm, especially when the use of the arm is associated with a significant amount of captured pollutants.



Many industrial applications associated with extremely high pollution loads will require higher maintenance intervals.

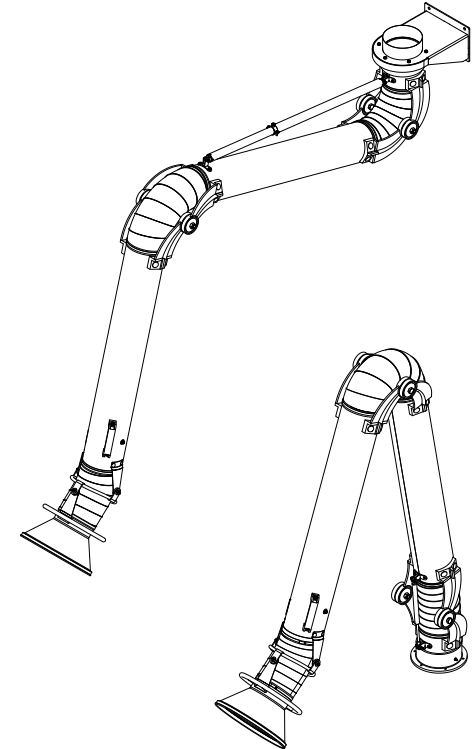
**Troubleshooting**

SYMPTOMS	POSSIBLE CAUSES	PROCEDURE
arm is not staying in position	too loose joints	adjust the joints evenly on each side
resistance during the rotation of arm	lack of lubrication in rotating swivel	inject grease through the grease fitting on rotating swivel
low air flow	damper closed	open the damper
	blockage inside the arm	take elastic hoses on joints off, check inside of the arm and clean
	elastic hose not properly mounted	loosen the hose clamp, pull the on hose on the pipe, tighten the clamp
	damage hose	change elastic hose to new one
	fan too small	check with vendor fan is sized for application

**IAP Fume Extraction Arms**

	Part Number	Tube Diameter	Length	Hood Diameter
Hanging Model	W02-01-1015	4"	5'	8"
	W02-01-1025	4"	8'	8"
	W02-01-1220	5"	7'	10"
	W02-01-1230	5"	10'	10"
	W02-01-1620	6"	7'	12"
	W02-01-1630	6"	10'	12"
	W02-01-1640	6"	14'	12"
	W02-01-2020	8"	7'	14"
	W02-01-2030	8"	10'	14"
	W02-01-2040	8"	14'	14"

\* Add P to end of Part Number for Standing Model Numbers



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**IAP FUME EXTRACTION ARMS**  
 USER'S MANUAL

# IAP FUME EXTRACTION ARMS USER'S MANUAL

## General information

This instruction manual contains IAP fume extraction arms use and maintenance information. IAP fume extraction arm users should become acquainted with the contents of this publication to learn about unit construction, principles of operation and means of its safe use. IAP is not responsible for any consequences arising from the use of the product against its intended purpose. IAP reserves the right to make changes to improve performance and operational properties of the product in the future without prior notice.

**i** Protect against possibility of shifting during transport.

## Product application

IAP fume extraction arms are designed for source capture of airborne pollutants. Thanks to use of fume extraction arms, air pollution can be captured before it enters operator's breathing zone. Self-locking external joints with flexible hoses and grab handles around the hood makes the arm operation easy and simple. Standard construction of IAP arms allow air pollution capture at applications like soldering, welding, cutting, polishing, painting.

**!** IAP does not recommend to use IAP fume arms with fumes nor dusts of aggressive or explosive properties. Due to standard elastic hose construction the temperature of captured gases should not exceed 176F. Contact IAP representative in order to choose an alternative configuration or stainless steel extraction arm.

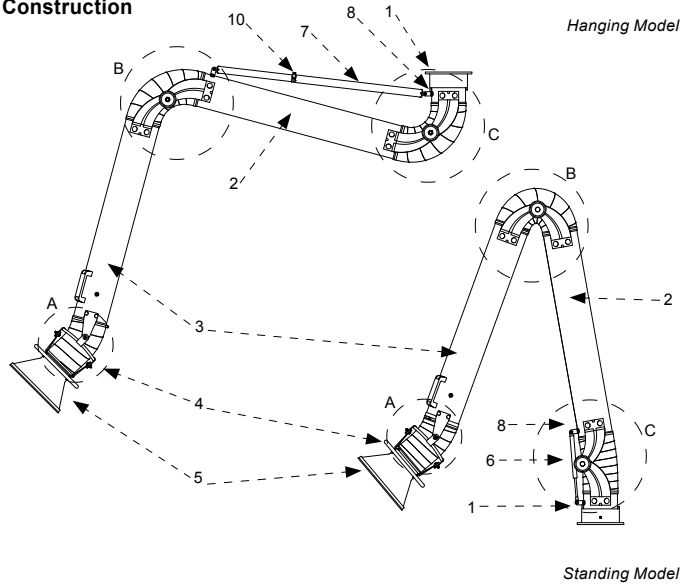
**!** Do not attempt any repairs or modifications on your own without consulting the manufacturer or authorized representative.

## Equipment arrival

Upon arrival user should thoroughly inspect the equipment and make sure there was no damage caused by the shipping carrier.

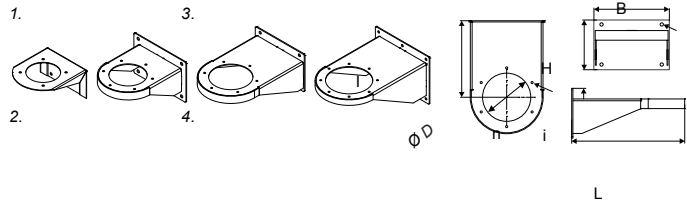
**!** In case of finding damage upon delivery, user should immediately not accept from freight carrier.

## Construction



- 1. Rotating swivel
  - 2. Swivel tube
  - 3. Hood tube with airflow damper
  - 4. Grab handle around the hood
  - 5. Fume arm hood
  - 6. Strut spring - standing versions
  - 7. Telescopic spring - hanging versions
  - 8. Spring mounting bracket
  - 9. Mounting bracket
  - 10. Stop nut (prevents arm from going too high)
- A. Hood joint  
B. Middle joint  
C. Swivel joint

## IAP arms mounting brackets



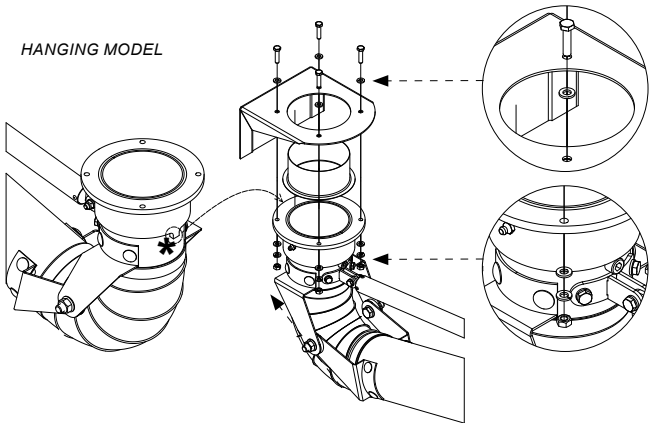
	Bracket type	n	N	Ø D	l	L	i	B	H	weight [lb]
1.	WS-100	4	4	4.72"	3.94"	7.48"	-	6.30"	3.94"	0.99
2.	WS-125	5	4	4.92"	6.02"	9.96"	1.38"	9.45"	6.30"	7.94
3.	WS-160	6	4	6.30"	10"	14.72"	1.38"	9.84"	6.50"	7.94
4.	WS-200	8	5	8.07"	12.36"	18.11"	1.57"	12.99"	9.84"	13.89

## Installation

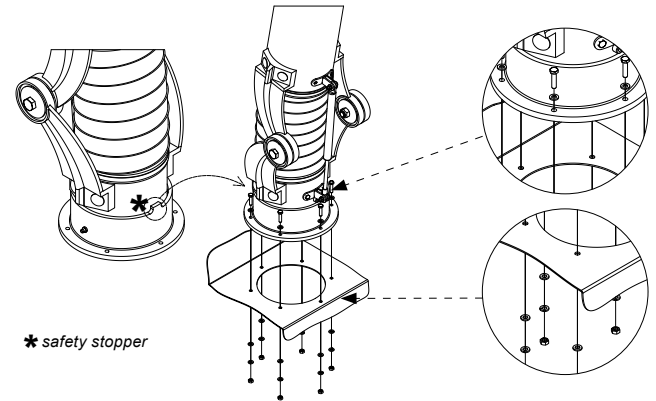
IAP fume arms are delivered completely assembled and ready for installation. The following illustrations show how to install hanging or standing models.

**!** Before installation of hanging fume arms the telescopic spring (7) should be attached to spring mounting bracket (8) on the rotating swivel (1). Ensure the body on each end of the spring are used with 2 washers and 1 nylon nut.

Fume arms are equipped with a safety stop that sets the blind spot within range of arm operation. The arm should be installed with stopper facing the back side of the fume arm (for example wall).



## STANDING MODEL



\* safety stopper

**!** Correctly adjusted arms remain in place after set in position. Use metric wrenches size 17mm to adjust the middle joint (B) and a swivel joint (C). Hood joint (A) adjust with metric wrench size 10mm. Perform adjustment by tightening or loosening the self-locking nuts at each joint. The joints should be adjusted evenly on both sides of the device.