



Source Capture Extraction Arms Owner's Manual

XA Series

KNOW YOUR EQUIPMENT

READ AND SAVE THESE INSTRUCTIONS

Your extraction arm should provide years of trouble-free service. This manual will help you understand the operation and maintenance required to achieve top performance. For quick future reference, complete the system and filter information in the spaces below. Should you need assistance, call the Parker customer service number shown below. To expedite your service, have the following information available when contacting Parker.

Parker Order #: _____

Unit Model #: _____

System Accessories:

Installation Date: _____

Parker Customer Service

1-800-343-4048

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SAFETY PRECAUTIONS

We have provided many important safety messages in this manual. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others. All safety messages will follow the safety alert symbol and the word “DANGER”, “WARNING” or “CAUTION”. These words mean:



Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

IMPORTANT SAFETY INSTRUCTIONS



To reduce the risk of fire, electric shock, or injury when using the air cleaner, follow these basic precautions:

- Use this product within the manner intended by the manufacturer. If you have questions contact the manufacturer.
- Read and understand the Owner's Manual prior to installing, operating or servicing this equipment
- Installation and service should be performed by qualified professionals only.
- Disconnect all power to unit prior to servicing.
- Wear appropriate dust mask, eye protection and protective clothing while servicing this equipment.
- Assemble the equipment as described in this Owner's Manual. Refer to the respective product Owner's Manual for arm integration guidelines.
- Use proper lifting and rigging equipment to install this equipment.

COMBUSTIBLE DUST HAZARDS – SMOG-HOG® and DUST-HOG® Pollution Control Systems

Pursuant to National Fire Protection Agency (NFPA) Standards, the owner/user is required to test their dust mixtures to evaluate and understand potential combustion or deflagration hazards that may exist. In addition, NFPA standards require the owner/user to perform and have record of a Dust Hazard Analysis (DHA) if there is potentially a combustible material involved within or exposed to the process.

The DHA serves as a systematic review of the process to:

- 1) Identify where fires and explosions can occur;
- 2) Identify the potential causes and consequences, and;
- 3) Determine if existing and proposed safeguards are sufficient.

It is the responsibility of the owner/user to evaluate, interpret and document any associated risk in their process including adherence and compliance to any and all applicable local, state and federal codes, standards, laws and regulations.

It is the sole responsibility of the equipment owner/user of record to coordinate and perform sample material collection and combustion/explosivity testing of any and all dust and material that will be extracted and filtered by the Air Pollution Control (APC) filtration equipment and to notify Parker of the results prior to any discussion involving equipment specification and solution recommendation. It is recommended to utilize a Certified Industrial Hygienist (CIH) or certified safety expert that is properly trained, licensed and approved and to use a licensed and approved dust testing facility for proper dust and material analysis, testing protocol and reporting procedures. A sample of testing facilities and list of Industrial Hygiene (CIH) and other occupational and environmental health and safety (OEHS) consultants can be located through AIHA (American Industrial Hygiene Association) website.

To minimize the risk of fire or explosion, user must ensure proper installation, operation and maintenance of Parker equipment. Since application, installation, operation and maintenance are beyond the control of Parker, Parker disclaims any liability or responsibility for damage from fires or explosions regardless of origin. Parker recommends that all APC dust collection equipment, installation and application conform to any and all applicable local, state and federal standards, codes, laws and regulations including the addition of appropriate fire or explosion protection systems including but not limited to venting, mitigation, suppression and isolation when and where required. Installation of Parker equipment should be by a licensed contractor that is also experienced in potential fire and explosion hazards and adheres to related local, state and federal codes, standards, laws and regulations. Parker is not an expert nor certified design consultant in relation to spark, fire or explosion mitigation including but not limited to detection, mitigation, suppression and isolation of combustible dusts and materials. Therefore, Parker recommends that any industrial air filtration system recommendation, design or solution be reviewed, approved, stamped and signed by an industry expert consultant in air filtration systems, combustible dust/materials or certified safety expert such as a Certified Industrial Hygienist (CIH) or a Certified Professional Engineer (PE) who is a licensed and certified expert with industrial filtration system design and application including adherence and compliance to any and all applicable local, state and federal codes, standards, laws and regulations.

Pursuant to Parker's Offer of Sale (terms and conditions) and by accepting the purchased equipment, Buyer and owner/user agree to defend, indemnify, and hold harmless Parker, its successors, assignees, suppliers, shareholders, directors, officers, employees, agents, and affiliated companies from all losses, costs, damages, demands, claims, liabilities, fines, penalties or any other expenses (including attorneys' fees, court costs, and expert fees) (collectively "losses"), caused or contributed to in any way by Buyer or owner/user's failure to follow these instructions and/or failure to properly install, apply, operate, or maintain the equipment purchased from or supplied by Parker, or losses caused or contributed to in any way by Buyer's and owner/user's failure to provide accurate information, specifications or dust explosivity values.

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1. Important Notice

This manual contains important safety information and precautionary measures. It is impossible to list all potential hazards associated with extraction arms or air pollution control systems across unique applications. Proper use of the equipment should be discussed with Parker. Operating personnel should be aware of, and adhere to, the most stringent safety procedures.

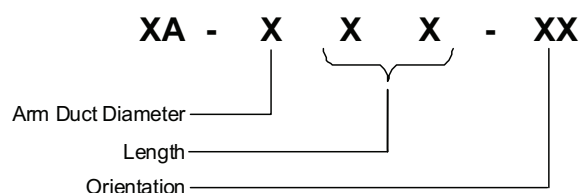
2. Introduction

Thank you for selecting Parker equipment to assist you in your commitment to a clean and safe working environment. If at any time you have questions about the application or operation of your equipment, call your local Parker representative.

2.1 Product Configurations and Nomenclature

2.1.1 Extraction Arms

The extraction arms are available in both portable and wall mount configurations. Within each orientation, the arms are available in both 6" (150mm) and 8" (200mm) diameters and 7 ft. (2 m), 10 ft. (3 m) and 12 ft. (3.6 m) lengths. The table below outlines the model configuration string.



Arm Duct Diameter: 6 = 6" (150mm), 8 = 8" (200mm)

Length: 07 = 7 FT (2m), 10 = 10 FT (3 m), 12 = 12 FT (3.6 m)

Orientation: PM = Portable, WM = Wall Mount

2.1.2 Telescopic Arms

The telescopic arms are available in both 6" (150mm) and 8" (200mm) diameters. Both of these sizes have lengths that extend from a fully contracted position of 3' to a fully extended position of 4.5'. The model configurations for these two telescopic arms are XA-6T and XA-8T.

2.1.3 Optional Accessories

Wall Mounting Brackets – Bracket for installation of a wall-mount extraction arm.

Light Kit – LED light mounted on the extraction arm hood.

Hood Mounted On/Off Switch – Control the blower with a switch mounted on the extraction arm hood.

Arc Sensing Kit – Sensor that detects an arc in welding processes which can activate the exhaust system.

Extraction Blower – Fan mounted onto a wall mount bracket to create a simple exhaust system.

Extension Boom Arm – Wall mounted, self-supported extension/support for wall mount arms or flexible ductwork.

Magnetic Hood + Flexible Duct – Self-securing hood with flexible duct including wear strips. Use in lieu of extraction arms.

2.2 Description and Operation

Source capture extraction arm systems are designed to be positioned near the source of dust or fume generation. Capturing pollutants at the source is the most effective way to protect workers in the area and prevent dust from migrating or drifting into other areas of the workplace. Typical applications include the extraction of fumes generated by electric arc welding, extraction of oil mists caused by coolants used in machining, removing smoke generated when flux is heated during soldering, and removing bulk powders that have been aerosolized.

The arms are constructed with a combination of metal and plastic components. The rigid ducts and capture hood are aluminum with a black powder coated finish. The elbows are black anodized cast aluminum. The steel components including the base assembly, spring brackets, and hood brackets are steel with a black powder coated finish. All powder coated components are rated to a minimum 500 hour salt spray test. The flexible duct/hoses are constructed of UL -94V0 rated materials in order to assure quality and minimize the risk of fire.

The extraction arms are flexible and allow the hood to be easily relocated near the pollutant source. Each arm is equipped with a swivel base and (2) or (3) pivot points to provide a wide range of motion, and is designed to hold its position throughout the entire range of motion. The tension on each joint is adjustable allowing the user to increase or decrease the amount of force required to reposition the arm. The support system for each arm is located external to the airflow, minimizing the pressure drop through the arm and allowing for easy maintenance and adjustment as necessary.

Extraction arms come equipped with a hood screen and manual flow damper near the hood which provides user control of the airflow (extraction capacity). The damper can also be used to balance systems with multiple arms to improve the performance of the complete ventilation system. The telescopic arm comes with hood but does not include a damper.

3. Product Safety Guidelines

WARNING

- **Read and understand the Owner's Manual prior to installing, operating or servicing the extraction arm.**
- **Disconnect all power prior to servicing or maintaining the equipment.**
- **Do not over extend or rotate the arm beyond noticeable resistance.**

The information included in this manual provides general instructions on how to assemble and install the components of the extraction arms by themselves. Refer to the applicable product Owner's Manual for installation instructions specific to your fume, mist or dust collector. Contact Parker or your local Parker representative if you have any questions or concerns regarding the application.

Model	Arm Diameter	Nominal Length	Shipping Weight
	in (mm)	ft (m)	lb (kg)
RA-607	10 (254)	7 (2)	50 (23)
RA-608	10 (254)	10 (3)	52 (24)

2. Introduction

2.1.1 Extraction Arms

2.1.2 Telescopic Arms

2.1.3 Optional Accessories

Magnetic Hood + Flexible Duct – Self-securing hood with flexible duct including wear strips. Use in lieu of extraction arms.

Extraction arms come equipped with a hood screen and manual flow damper near the hood which provides user control of the air-flow (extraction capacity). The damper can also be used to balance systems with multiple arms to improve the performance of the complete ventilation system. The telescopic arm comes with hood but does not include a damper.

- Read and understand the Owner's Manual prior to installing, operating or servicing the extraction arm.
- Disconnect all power prior to servicing or maintaining the equipment.
- Do not over extend or rotate the arm beyond noticeable resistance.

4. Product Specifications

5.4 Telescopic Arm Assembly Instructions

See Figure 6 for telescopic wall mount arm part numbers. It is recommended that two people perform the installation of the arm onto the wall mount bracket. A ladder, lift, or scaffolding will be required to lift and secure the arm to the wall mounting bracket.

1. Locate mounting hardware in loose parts kit box. Open hardware bag and identify proper tools for mounting the arm onto the unit.
2. Prior to mounting the arm the wall mount bracket must be installed and properly secured.
3. If mounting the arm to the bracket with fume extraction blower the blower must be placed in position prior to installation of the arm. If mounting the arm to the bracket with a ducting kit, the collar must be placed in position prior to installation of the arm.
4. The wall mount bracket will be sandwiched between the blower or collar and the base assembly of the arm.
5. Lift arm, orient as shown, and align the holes through all of the pieces. Install hardware into half of the mounting holes. Do not completely tighten at this point. Cut and remove the two the zip ties on the base.
6. Install and tighten all of the hardware to secure the base onto the unit. The arm is not fully supported at this point so ensure to continue to support arm such that it does not fall onto personnel or equipment in the area.
7. At this point check the arm for proper motion. The arm should rotate on the base freely. The torques at each joint are preset to hold the arm in position throughout the full range of motion. The arm movement can be adjusted as necessary to better fit your process. Refer to section 6.1 to properly adjust the relevant joints on the arm.

5.5 Locating Extraction Hood

The position of the extraction hood is critical to the overall performance of the extraction system. The extraction arm and hood are designed to provide maximum flexibility and convenience in operation. The hood should be positioned at a 45° angle relative to the working surface, approximately 10 – 14" from the contaminant source on the opposite side of the worker. Minimizing the bends present in the extraction arm will reduce losses and improve extraction performance.

5.6 Extraction Arm Damper

Excluding the telescopic arms, each extraction arm is equipped with an airflow damper that can be used to control the airflow. Controlling the airflow may be required to avoid disruption of the arc gas during the welding process. The damper is controlled by turning the knob on the right side of the upper tube assembly. When the handle is parallel to the duct, the damper is open.

6. User Servicing Instructions



- **Disconnect electrical power prior to servicing equipment.**
- **Wear appropriate protective clothing.**
- **Collected particulate may be hazardous. Consult proper authorities for handling and disposal.**

6.1 Adjusting Extraction Arm Joints

Periodically, the extraction arm joints may require adjustment to either tighten or loosen the movement to better fit your process. Each joint has friction disks, which assist in controlling the motion of the arm, that can be adjusted by modifying the bolt tension at each respective joint.

To adjust the joint assemblies, simply tighten or loosen the nylon lock nuts to the desired level of torque. The tighter the nut is turned, the higher the resultant friction is created. For the elbow joints it is best to adjust the two nuts by the same amount. Small adjustments are recommended to fine tune the desired movement.

Model	Arm Diameter	Nominal Length	Middle Joint	Base Joint
	in (mm)	ft (m)	ft-lbs. (Nm)	ft-lbs. (Nm)
XA-607-PM	6 (150)	7 (2)	13 (17.6)	18 (24.4)
XA-610-PM		10 (3)	13 (17.6)	18 (24.4)
XA-612-PM		12 (3.6)	15 (20.3)	18 (24.4)
XA-607-WM	6 (150)	7 (2)	13 (17.6)	18 (24.4)
XA-610-WM		10 (3)	13 (17.6)	18 (24.4)
XA-612-WM		12 (3.6)	15 (20.3)	21 (28.5)
XA-6T	8 (200)	3 (.91)	N/A	18 (24.4)
XA-8T		3 (.91)	N/A	18 (24.4)
XA-807-PM		7 (2)	13 (17.6)	18 (24.4)
XA-810-PM	8 (200)	10 (3)	13 (17.6)	18 (24.4)
XA-812-PM		12 (3.6)	21 (28.5)	21 (28.5)
XA-807-WM		7 (2)	13 (17.6)	21 (28.5)
XA-810-WM	8 (200)	10 (3)	13 (17.6)	21 (28.5)
XA-812-WM		12 (3.6)	21 (28.5)	21 (28.5)

Table 2 - Factory Recommended Elbow Joint Torque Settings

6.2 Suggested Maintenance

Daily Items	Verify that extraction arm moves freely and holds desired position. Adjust joints as necessary.
Quarterly Items	Clean and remove any fume build up from the interior surfaces of the fume extraction arm with warm water and detergent. Inspect and clean the telescopic tube assembly by wiping with a dry cloth.
Semi-Annual Items	Inspect the extraction arm swivel base. Verify smooth rotation and that all mounting hardware is secure. Inspect and re-lubricate the telescopic tube assembly on the telescopic arm as needed.

7. Troubleshooting Guide

WARNING

- Disconnect all power before servicing equipment.
- Take all necessary precautions including protective clothing such as eye protection, ear plugs and gloves.

PROBLEM	POSSIBLE CAUSES	RECOMMENDED SOLUTIONS
Extraction Arm Does Not Hold Its Position	Tension on joints has loosened.	Adjust the arm joints (see Section 6.1)
	Support spring is damaged or worn.	Inspect spring and replace if necessary.
	Telescopic arm does not hold its vertical position due to worn/degraded O-rings or over-lubrication of the internal telescopic assembly.	Inspect, clean, and re-lubricate the tube O-rings on the telescopic tube assembly. Too much silicone lubricant can cause the assembly to slip. Wipe excess oil off of O-rings and tube prior to re-assembly.
Arm Does Not Rotate	Base swivel bearing has been damaged or worn.	Inspect the bearing surfaces for debris or damage. Replace bearing pieces as needed.
Decreased Airflow at Hood	Extraction arm damper is closed.	Open or adjust damper.
	Pressure drop across filter.	Clean or replace filter.
	Extraction arm is leaking.	Verify flexible duct is properly sealed and not torn.
	Extraction arm obstructed.	Inspect and remove any debris which may be lodged within the arm.

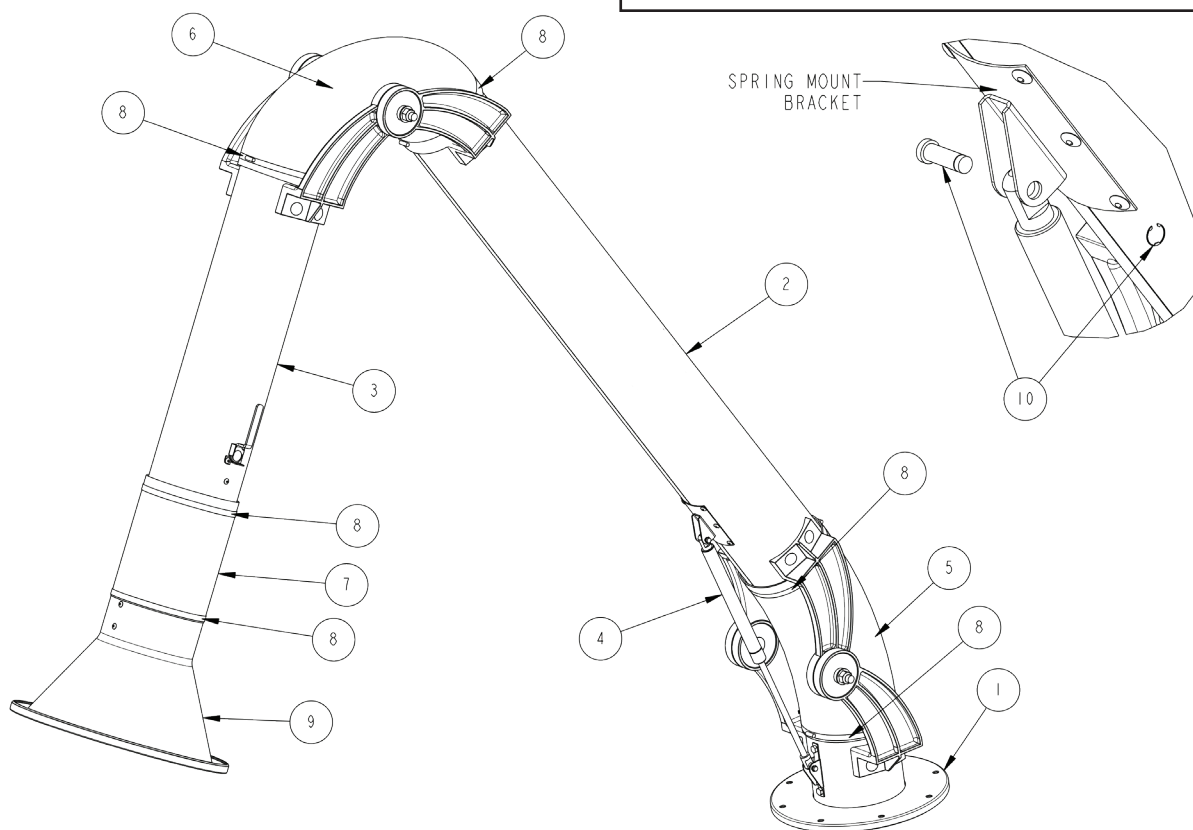
8. Replacement Parts

! WARNING

- Disconnect all power before servicing equipment.
- Take all necessary precautions including protective clothing such as eye protection, ear plugs and gloves.

! CAUTION

- Ensure to refer to the correct table and figure for your fume extraction swing arm when selecting the appropriate replacement parts.
- Using incorrect components for your arm could cause damage to the equipment and possible injury to the operator.

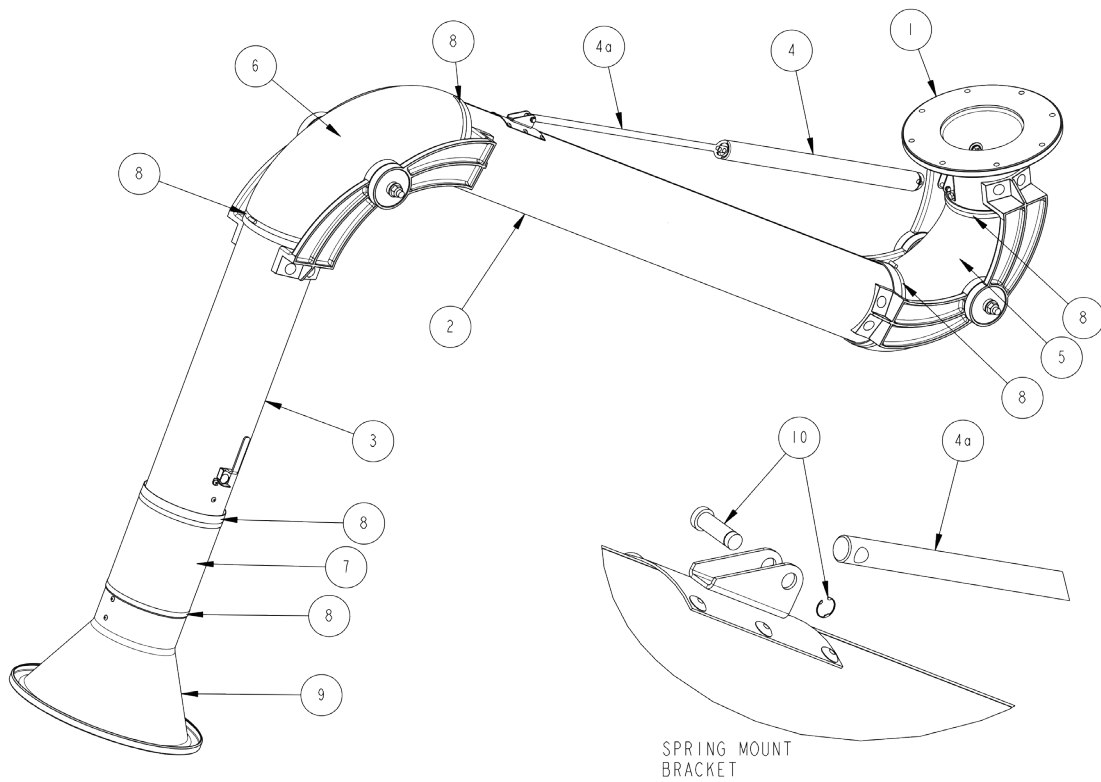


61-10075-01

ITEM	DESCRIPTION	XA-607-PM	XA-610-PM	XA-612-PM	XA-807-PM	XA-810-PM	XA-812-PM
1	BASE ASSEMBLY	SEE FIGURE 5			SEE FIGURE 5		
2	BASE TUBE ASM	02-11099	02-11100		02-11105	02-11106	
3	HOOD TUBE ASM	02-11103		02-11104	02-11109		02-11110
4	GAS SPRING	36-10003-0140	36-10003-0175	02-10922	36-10003-0140	36-10003-0175	02-10922
5	BASE FLEX DUCT	15-10048-630			15-10048-830		
6	MID FLEX DUCT	15-10048-624			15-10048-824		
7	HOOD FLEX DUCT	15-10048-612			15-10048-812		
8	HOSE CLAMP	15-0004			15-0005		
9	HOOD ASSEMBLY	02-10817-6			02-10817-8		
10	SPRING PIN KIT	03-10561-02			03-10561-02		
11	BASE MTG HDWR*	03-10561-01			03-10561-01		

* Base mounting hardware kit not shown

FIGURE 1
Portable Mount Arm Detail and Replacement Parts

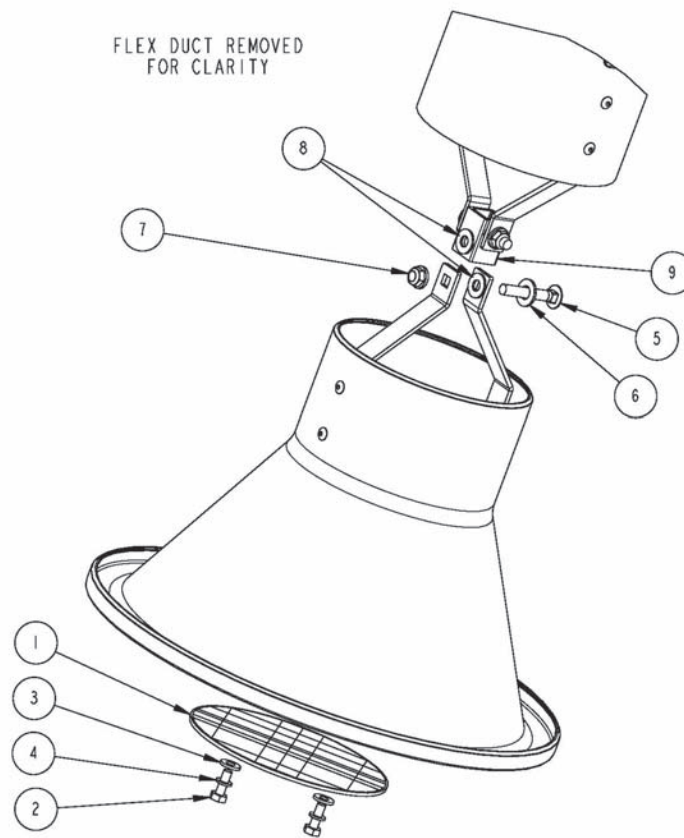


61-10075-02

ITEM	DESCRIPTION	XA-607-WM	XA-610-WM	XA-612-WM	XA-807-WM	XA-810-WM	XA-812-WM
1	BASE ASSEMBLY	SEE FIGURE 5			SEE FIGURE 5		
2	BASE TUBE ASM	02-11101	02-11102		02-11107	02-11108	
3	HOOD TUBE ASM	02-11103		02-11104	02-11109		02-11110
4	TENSION SPRING	36-10006	36-10007	36-10007	36-10006	02-10946-10	02-10946-12
4a	EXTENSION ROD	N/A	10-12912	10-12912	N/A	N/A	N/A
5	BASE FLEX DUCT	15-10048-630			15-10048-830		
6	MID FLEX DUCT	15-10048-624			15-10048-824		
7	HOOD FLEX DUCT	15-10048-612			15-10048-812		
8	HOSE CLAMP	15-0004			15-0005		
9	HOOD ASSEMBLY	02-10817-6			02-10817-8		
10	SPRING PIN KIT	03-10561-02			03-10561-02		
11	BASE MTG HDWR	03-10561-07			03-10561-07		

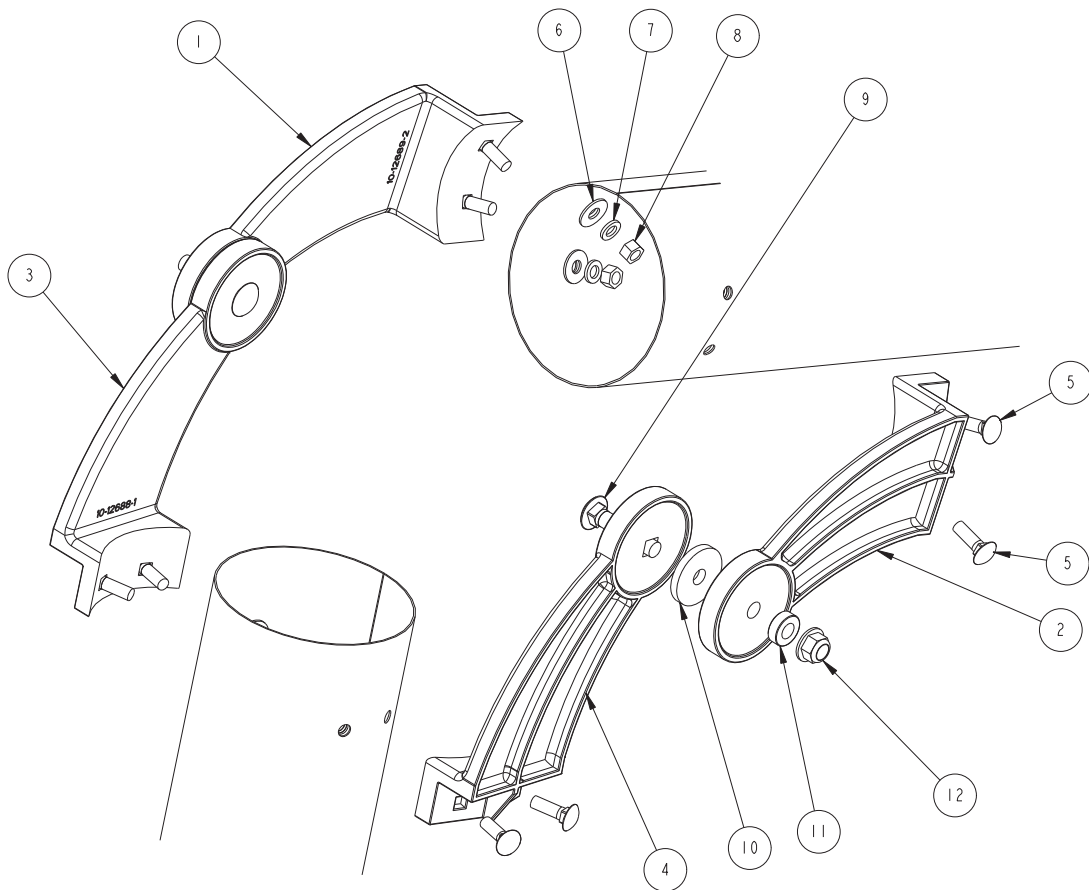
* Base mounting hardware kit not shown

FIGURE 2
Wall Mount Arm Detail and Replacement Parts



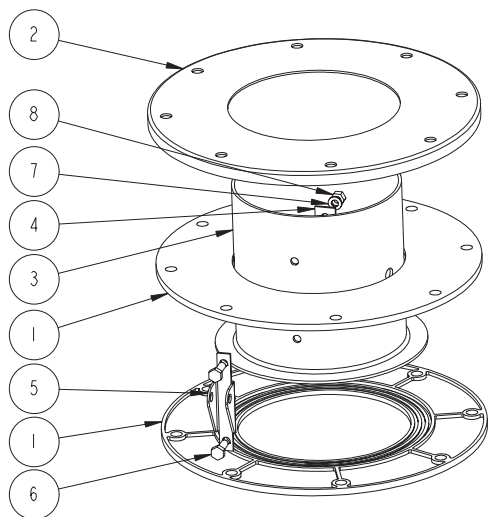
Item #	Part #	Description
1a	26-10015	INLET SCREEN (6" ARMS)
1b	26-10016	INLET SCREEN (8" ARMS)
2	30-10099	1/4"-20 BOLT
3	30-10096-0250	1/4" FLAT WASHER
4	30-10095-0250	1/4" LOCK WASHER
5	30-10131	5/16"-18 CARRIAGE BOLT
6	30-0094	3/8" FLAT SPACER WASHER
7	30-10130	5/16"-18 FLANGED NYLON LOCK NUT
8	30-10128	5/16" PLASTIC FRICTION WASHER
9	10-12682	HOOD KNUCKLE

FIGURE 3
Typical Hood Detail and Replacement Parts

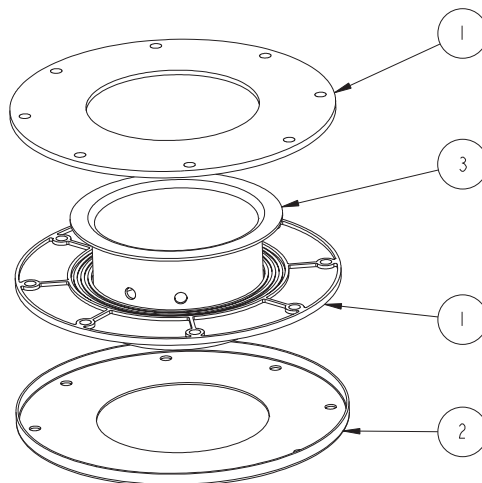


Item #	Part #	Description
1a	10-12689-2M	OUTSIDE LEFT ELBOW (6" ARMS)
1b	10-12689-4M	OUTSIDE LEFT ELBOW (8" ARMS)
2a	10-12688-2M	OUTSIDE RIGHT ELBOW (6" ARMS)
2b	10-12688-4M	OUTSIDE RIGHT ELBOW (8" ARMS)
3a	10-12688-1M	INSIDE LEFT ELBOW (6" ARMS)
3b	10-12688-3M	INSIDE LEFT ELBOW (8" ARMS)
4a	10-12689-1M	INSIDE RIGHT ELBOW (6" ARMS)
4b	10-12689-3M	INSIDE RIGHT ELBOW (8" ARMS)
5	30-10035-0003	3/8"-16 CARRIAGE BOLT
6	30-10096-0375	3/8" FLAT WASHER
7	30-10095-0375	3/8" LOCK WASHER
8	30-10097-0375	3/8"-16 NUT
9	30-10132	1/2"-13 CARRIAGE BOLT
10	30-10144	BRONZE WASHER
11	31-10026	THRUST BEARING
14	30-10145	1/2" FLANGED NYLOCK NUT

FIGURE 4
Typical Elbow Joint Detail and Replacement Parts



REGULAR ARRANGEMENT

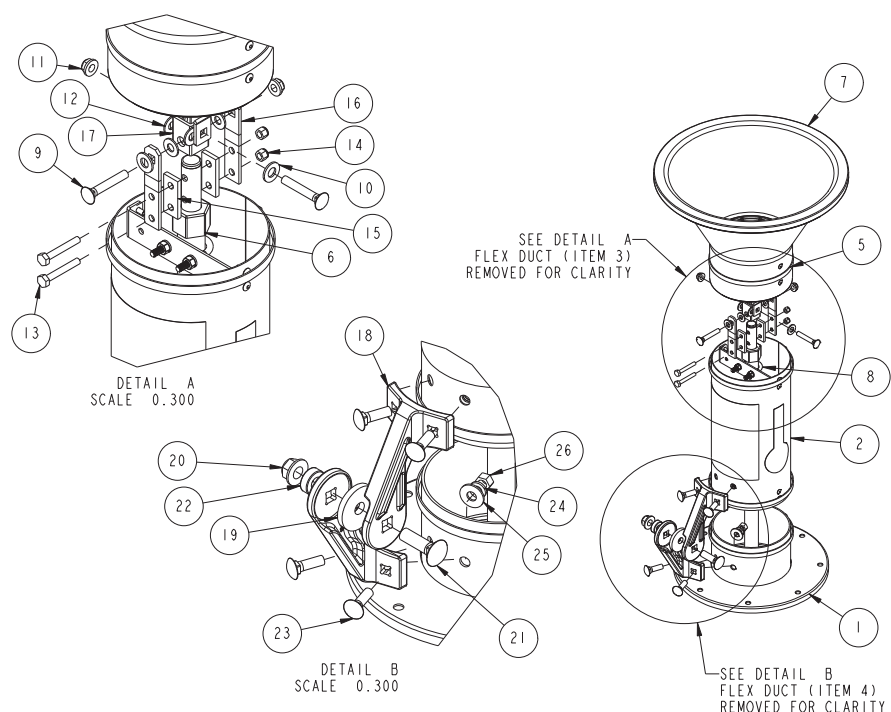


TELESCOPIC ARRANGEMENT

61-10075-06

	COMPONENT	6" DIA. ARMS	XA-6T	8" DIA ARMS	XA-8T
1	BEARING HALF	26-10014		26-10013	
2	CAPTURE BASE	15-10059		15-10058	
3	SWIVEL COLLAR	15-10066	15-10070	15-10067	15-10071
4	BACKING PLATE	10-12685	NR	10-12685	NR
5	SPRING MOUNT	10-12775	NR	10-12775	NR
6	1/4-20 BOLT	30-10099	NR	30-10099	NR
7	1/4" LOCK WASHER	30-10095-0250	NR	30-10095-0250	NR
8	1/4-20 NUT	30-10097-0250	NR	30-10097-0250	NR

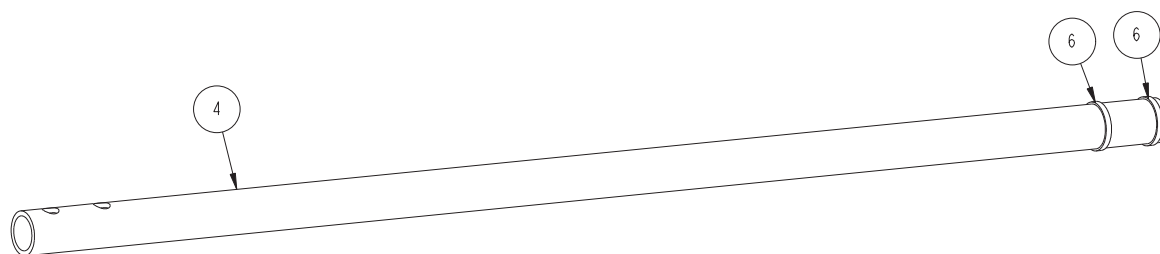
FIGURE 5
Base Assembly Detail and Replacement Parts



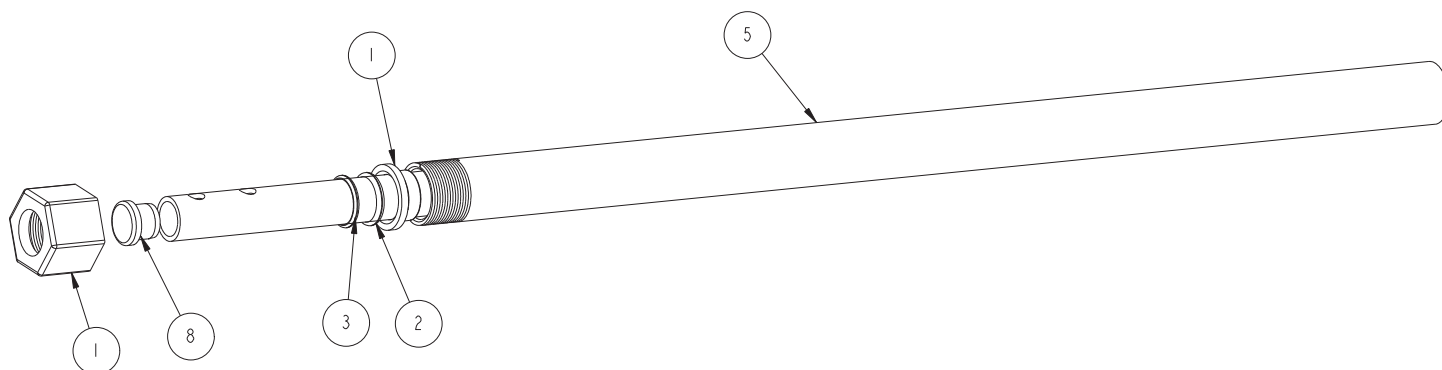
ITEM	DESCRIPTION	XA-6T	XA-8T
1	BASE ASSEMBLY	SEE FIGURE 5	SEE FIGURE 5
2	BASE TUBE ASSEMBLY	02-11245	02-11246
3	FLEX DUCT, 30" LONG	15-10048-630	15-10048-830
4	FLEX DUCT, 18"/24" LONG	15-10048-618	15-10048-824
5	HOSE CLAMP	15-0004	15-0005
6	TELESCOPIC TUBING ASSEMBLY	02-11122	
7	HOOD ASSEMBLY	02-10817-6	02-10817-8
8	U-BOLT WITH NUTS	30-10140	
9	5/16"-18 CARRIAGE BOLT	30-10131	
10	3/8" FLAT SPACER WASHER	30-0094	
11	5/16"-18 FLG NYLON LOCK NUT	30-10130	
12	5/16" PLASTIC FRICTION WASHER	30-10128	
13	1/4"-20 BOLT, 1-3/4" LG	30-10082	
14	1/4"-20 FLG NYLON LOCK NUT	30-10129	
15	SWIVEL HOOD SPACER	10-13139	
16	SWIVEL HOOD BRACKET	10-13140	
17	HOOD KNUCKLE	10-12682	
18	CAST ELBOW	10-13238	10-13239
19	BRONZE WASHER	30-10144	
20	1/2"-13 FLG NYLON LOCK NUT	30-10145	
21	1/2"-13 CARRIAGE BOLT	30-10146	
22	THRUST BEARING	31-10026	
23	3/8"-16 CARRIAGE BOLT	30-10035-0003	
24	3/8" LOCK WASHER	30-10095-0375	
25	3/8" FLAT WASHER	30-10096-0375	
26	3/8"-16 NUT	30-10097-0375	
27	BASE MTG HARDWARE	03-10561-07	

* Base mounting hardware kit not shown.

FIGURE 6
Telescopic Wall Mount Arm Detail and Replacement Parts



INNER TUBE WITH SQUARE O-RINGS ONLY



ITEM	DESCRIPTION	XA-6T	XA-8T
1	1-1/4"-20 NUT & SLEEVE	30-10141	
2	O-RING, ROUND, #208	42-10081	
3	O-RING, ROUND, #115	42-10083	
4	INNER TUBE, 3/4"	10-13142	
5	OUTTER PIPE, 3/4"	10-13141	
6	O-RING, SQUARE, #114	42-10080	
7	SILICONE LUBRICANT	42-10082	
8	PLASTIC TUBE PLUG	39-10053	

*Silicone lubricant not shown

FIGURE 7
Telescopic Mechanism and Replacement Parts

Product Warranty –

SMOG-HOG[®] and DUST-HOG[®] Pollution Control Systems

1. Subject to the terms and conditions hereof, Parker-Hannifin Corporation (PARKER) warrants that major structural components on MCB, PNP, SDC, SFC, and SHM series will be free from defects in materials and workmanship for ten (10) years from the date of shipment from Parker. Subject to the terms and conditions hereof, warrants to the original Buyer of any Parker product (PRODUCT) installed and used as recommended by PARKER in normal service, that if the PRODUCT fails or is materially defective within twenty-four (24) months from date of installation or thirty (30) months from the date of shipment (whichever is earlier), of such PRODUCT, then PARKER, at PARKER'S sole option, will replace the PRODUCT with the same or equivalent PRODUCT, repair the PRODUCT or refund the original purchase price for the PRODUCT. Such replacement, repair or payment by PARKER shall be in complete satisfaction of any and all liability of PARKER and its agents with respect to such PRODUCT. Excluded from any Parker warranty are hose, electrical motors or consumable products such as flexible hose, belts, filter cartridges, filter media, ESP cells, electrical components, gasketing, or any component defined by PARKER as a consumable item.

2. Parker IGFG's warranty policy covers defects that are due to manufacturing quality. Equipment must be installed, commissioned and maintained in accordance with Parker IGFG recommendations as documented in the specific user manual related to your dust or wet collector product. This warranty does not cover defects due to poor environmental conditions, improper installation, or wear and tear items. This warranty shall be void in case of:

- a) Any buyer's modifications not explicitly approved by Parker IGFG Division,
- b) Misuse or failure in maintenance - not in accordance with Parker's product recommendations,
- c) Use of unauthorized or non-genuine Parker replacement parts,
- d) Damage caused by corrosion, abrasion, abnormal use or misuse, misapplication, or normal wear and tear,
- e) Equipment not properly installed, operated and maintained under normal conditions and recommended applications.

As Buyers exclusive remedy for any defects in the equipment, Parker will exchange or repair any defective parts during the warranty period, provided such parts are returned, prepaid, to Parker factory. The obligation of Parker is limited to furnishing replacement parts EXW Parker factory or making repairs at Parker factory of any parts that are determined, upon inspection by Parker, to be defective. In no event will Parker be responsible for labor or transportation charges for the removal, reshipment or reinstallation of the parts. Replacement parts will be provided via INCOTERMS EXW from Parker's Lancaster NY location. Parker makes no warranty as to goods manufactured or supplied by others.

3. THE FOREGOING IS THE ONLY WARRANTY, GUARANTEE OR REPRESENTATION OF ANY KIND MADE WITH RESPECT TO THE SUBJECT PARKER PRODUCTS. NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF NONINFRINGEMENT, DESIGN, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE PRODUCT, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THE PRODUCT SHALL BIND PARKER. PARKER SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THE PRODUCT REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF PARKER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST PARKER BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY PARKER AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE, MISUSE OR INABILITY TO USE THE PRODUCT NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF PARKER. THIS LIMITED WARRANTY IS GIVEN ONLY WITH RESPECT TO A PRODUCT PURCHASED FROM PARKER OR AN AUTHORIZED PARKER DISTRIBUTOR.

4. IN NO EVENT IS PARKER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, NONCOMPLETION OF SERVICES, USE, LOSS OF USE OF, OR INABILITY TO USE THE PRODUCT OR ANY PART THEREOF, LOSS OF DATA, IDENTITY, PRIVACY, OR CONFIDENTIALITY, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT PARKER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL PARKER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCT.

5. Defective PRODUCTS must be documented via PARKER support "Case Number" within thirty (30) days after the date of the alleged failure or defect and within the warranty period by contacting Parker Technical Support via email or phone:

smoghog@parker.com or dusthog@parker.com
800-343-4048, option 2

The claim must specify in reasonable detail:

- 1) Product Serial Number or Parker Sales Order # and approximate Date of Purchase;
- 2) Where or from whom the product was originally purchased;
- 3) Description of problem symptom;
- 4) Description of troubleshooting effort details;
- 5) Description of physical location and/or environment details. The Buyer shall cooperate with PARKER in its investigation and provide full information and documentation concerning the PRODUCT and its usage.

Upon receipt of the claim, Parker IGFG will review and determine if the parts replaced need to be returned for quality evaluation and root cause investigation. If a part is required to be returned, Parker IGFG will issue a Return Material Authorization (RMA) to Return via email. Parts should be returned to Parker IGFG, freight collect, within 45 days accompanied by the RMA packing slip placed on the package. If the repaired part does not need to be returned you will be advised to field scrap it and the claim will be processed. Proof of the defect (written description and pictures of the parts units in question) is required.

NOTE: ANY PART NOT RETURNED WITHIN THE REQUIRED 45 DAYS WILL NOT BE REIMBURSED ON THE CLAIM.

On claims that require repaired parts return, the claim will be processed after the part has been evaluated by the Parker IGFG Quality Department for verification of failure mode. The claims will be paid in the form of a credit to the customer's account. Parker reserves the right to withdraw any quotation or proposal or reject any purchase order without liability.

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment

Industrial Gas Filtration and Generation Division

Lancaster, NY
716 686 6400
www.parker.com/igfg

Haverhill, MA
978 858 0505
www.parker.com/igfg

Engine Filtration

Racor

Modesto, CA
209 521 7860
www.parker.com/racor

Holly Springs, MS
662 252 2656
www.parker.com/racor

Hydraulic Filtration

Hydraulic & Fuel Filtration

Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

Velcon
Colorado Springs, CO
719 531 5855
www.velcon.com

Process Filtration

domnick hunter Process Filtration SciLog

Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Water Purification

Village Marine, Sea Recovery, Horizon Reverse Osmosis

Carson, CA
310 637 3400
www.parker.com/watermakers

Europe

Compressed Air Treatment

domnick hunter Filtration & Separation

Gateshead, England
+44 (0) 191 402 9000
www.parker.com/dhfn

Parker Gas Separations

Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfn

Hiross Zander

Essen, Germany
+49 2054 9340
www.parker.com/hzfd

Padova, Italy
+39 049 9712 111
www.parker.com/hzfd

Engine Filtration & Water Purification

Racor

Dewsbury, England
+44 (0) 1924 487 000
www.parker.com/rfde

Racor Research & Development

Stuttgart, Germany
+49 (0)711 7071 290-10

Hydraulic Filtration

Hydraulic Filter

Arnhem, Holland
+31 26 3760376
www.parker.com/hfde

Urdala, Finland
+358 20 753 2500

Condition Monitoring

Parker Kittiwake

West Sussex, England
+44 (0) 1903 731 470
www.kittiwake.com

Process Filtration

domnick hunter Process Filtration Parker Twin Filter BV

Birtley, England
+44 (0) 191 410 5121
www.parker.com/processfiltration

Asia Pacific

Australia

Castle Hill, Australia
+61 2 9634 7777
www.parker.com/australia

China

Shanghai, China
+86 21 5031 2525
www.parker.com/china

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+91 22 4391 0700
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Parker Fowler

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+91 80 2783 6794
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www.parker.com/japan

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+82 31 359 0852
www.parker.com/korea

Singapore

Jurong Town, Singapore
+65 6887 6300
www.parker.com/singapore

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Bangkok, Thailand
+66 2186 7000
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Latin America

Parker Comercio Ltda.

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+55 12 4009 3500
www.parker.com/br

Pan American Division

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305 470 8800
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Africa

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State of California ONLY
WARNING: Proposition 65
The products described herein can expose you to chemicals known to the
State of California to cause cancer or reproductive harm.
For more information: www.P65Warnings.ca.gov