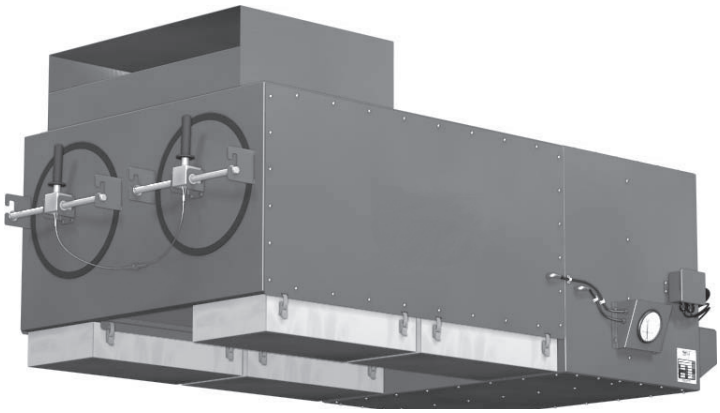

Ceiling-Mount Cartridge Dust Collector Owner's Manual

Models SCA and SCB

Parker

ENGINEERING YOUR SUCCESS.

KNOW YOUR EQUIPMENT

READ THIS MANUAL FIRST.

Your SCA/SCB system should provide many years of trouble-free service.
This manual will help you understand the operation of your SCA/SCB unit.
It will also help you understand how to maintain it in order to achieve top performance.
For quick future reference, fill in the system and filter information in the spaces below.
Should you need assistance, call the Parker Hannifin, Inc. customer service number shown below. To expedite your service, have the following information available when contacting Parker.

ORDER #: _____

UNIT MODEL #: _____

UNIT SERIAL #: _____

FILTER PART #: _____

SYSTEM ACCESSORIES:

_____

_____

_____

INSTALLATION DATE: _____

Parker Hannifin Customer Service

1-800-343-4048

Table of Contents

SAFETY PRECAUTIONS

We have provided many important safety messages in this manual and on the dust collector. 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:

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

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

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

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

IMPORTANT SAFETY INSTRUCTIONS

WARNING

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

- Disconnect power before servicing.
- Do not use in explosive atmospheres.
- Do not collect emissions which are explosive.
- The SCA/SCB should not be used for support of personnel or material.
- Operate only in a safe and serviceable condition.
- When collecting emissions from metal grinding or other spark producing processes, care must be taken to reduce any potential fire hazards.
- Do not allow operator to put cigarettes or any burning object into the hood or ducting of the swing arm.
- Do not use the Swing Arm to move the portable air cleaner (if applicable).

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 pf 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. Pre-Installation

1.1 Important Notice

This manual contains specific information concerning safety and precautionary measures in some sections. It is impossible to list every potential hazard associated with dust collection equipment or systems. Use of the equipment must be discussed with Parker Hannifin, Inc. or your local dust collection representative, and as always, adhere to the most stringent safety procedures.

1.2 Caution Concerning Application of Dust Control Equipment

1) Avoid mixing combustible materials such as paper wood dust, aluminum, magnesium and buffing lint with dust generated from grinding ferrous metals. There is a potential fire hazard caused by sparks in the dust collector. When collecting flammable or explosive materials, the dust collector should be located outside.

2) When collecting emissions from steel or combined metal shavings, the dust collector should be located a minimum of 40 feet away from the source to reduce any potential fire hazards. Dust collectors do NOT contain fire extinguishing equipment (unless specially ordered). Experts in the field of fire extinguishing equipment should be consulted for recommendations for the installation of proper fire detection and suppression systems and/or equipment.

3) Some dust collection systems require explosion venting. Consult with an insurance underwriter or a NFPA (National Fire Protection Agency) Manual to determine proper vent usage and sizing.

4) Do not allow any machine operator to put lit cigarettes or any burning objects into the hood or ducting of any dust control system.

5) Be careful and conscientious—Consult national and local fire codes, waste disposal, safety and/or other appropriate authorities and comply with their recommendations for the proper installation and operation of dust collection equipment.

2. Product Orientation

Congratulations on your purchase of a Dust Collection SCA/SCB Cartridge Dust Collector. We trust that in purchasing our product, you have recognized our commitment to continually offer dust collection equipment that is suitable for each dust collection need, and manufactured to high standards.

2.1 Introduction

Dust Collection SCA/SCB Cartridge Dust Collectors are used for the collection of airborne dust and particulate. The SCA/SCB cartridge system provides continuous-duty cleaning and operation in its application to cleaning the work environment.

This high performance, low profile unit provides highly efficient dust collection in previously inconvenient or inaccessible locations.

2.2 Operation Explanation

Normal operation of the SCA/SCB unit consists of the following:

1) Air Filtering operation

The contaminated airstream is drawn into the collector where its velocity slows to provide even distribution of the airstream through the entire surface area of the cartridge media. This unique design enhances filtration efficiency by establishing a uniform dust cake on the filters. The airstream is in turn directed around the elements and downward toward the integral dust drawers where the heavier dusts accumulate.

The air then passes through the cartridge elements and is stripped of the remaining smaller suspended particles by the outer surface of the media. Cleaned air flows through the center of the filter into the clean air plenum and exits through the blower and rear exhaust outlet back into the workplace.

As the cartridge filter elements build up with contaminants, the reverse pulse cleaning mechanism automatically provides brief bursts of compressed air directed through air induction nozzles into the interior of the cartridge media. This pulsing action dislodges the collected particles from the outer surface of the media where it falls into the dust drawers for storage and removal at a convenient time.

2) Filter element purge cycle

During the filter element purge cycle, each set of two (2) filters is cleaned separately. The solid-state timer actuates a solenoid valve which allows an air diaphragm valve to open for approximately 100 milliseconds. High pressure air is directed through an air induction nozzle increasing air velocity to the cartridge element, producing a pneumatic shock wave necessary to free the dust from the filters being purged.

The dust is blown from the filter and by thrust and gravity is swept downward toward the dust drawers.

The remaining filters are cleaned sequentially.

The sequencing interval is preset but is adjustable to adapt to your particular cleaning needs (refer to Section 4.3, Adjustments).

2.3 Specifications

SCB **Specifications**	
Air Volume	2000 CFM Nominal
7 ft Arms	1132 CFM Ea. (8”) Arm 671 CFM Ea. (6”) Arm
10 ft Arms	1090 CFM Ea. (8”) Arm 631 CFM Ea. (6”) Arm
14 ft Arms	1032 CFM Ea. (8”) Arm 573 CFM Ea. (6”) Arm
Power	3 HP TEFC, 230-460/3/60
Timer	115/1/60 Standard
Actual Filter Area	1020 Square Feet
Number of Valves	2, with integral pilots
Number of Cartridges	4 @ ø 13.83 x 26” Long
Approx. Unit Weight	775 Lbs without arms
Compressed Air @ 100 psi	.78 SCF Per Pulse

SCA **Specifications**	
Air Volume	2500 CFM Nominal
Power	3 HP TEFC, 230-460/3/60
Timer	115/1/60 Standard
Actual Filter Area	1020 Square Feet
Number of Valves	2, with Integral Pilots
Number of Cartridges	4 @ ø 13.83 x 26” Long
Approx. Unit Weight	837 Lbs
Compressed Air @ 100 psi	.78 SCF Per Pulse

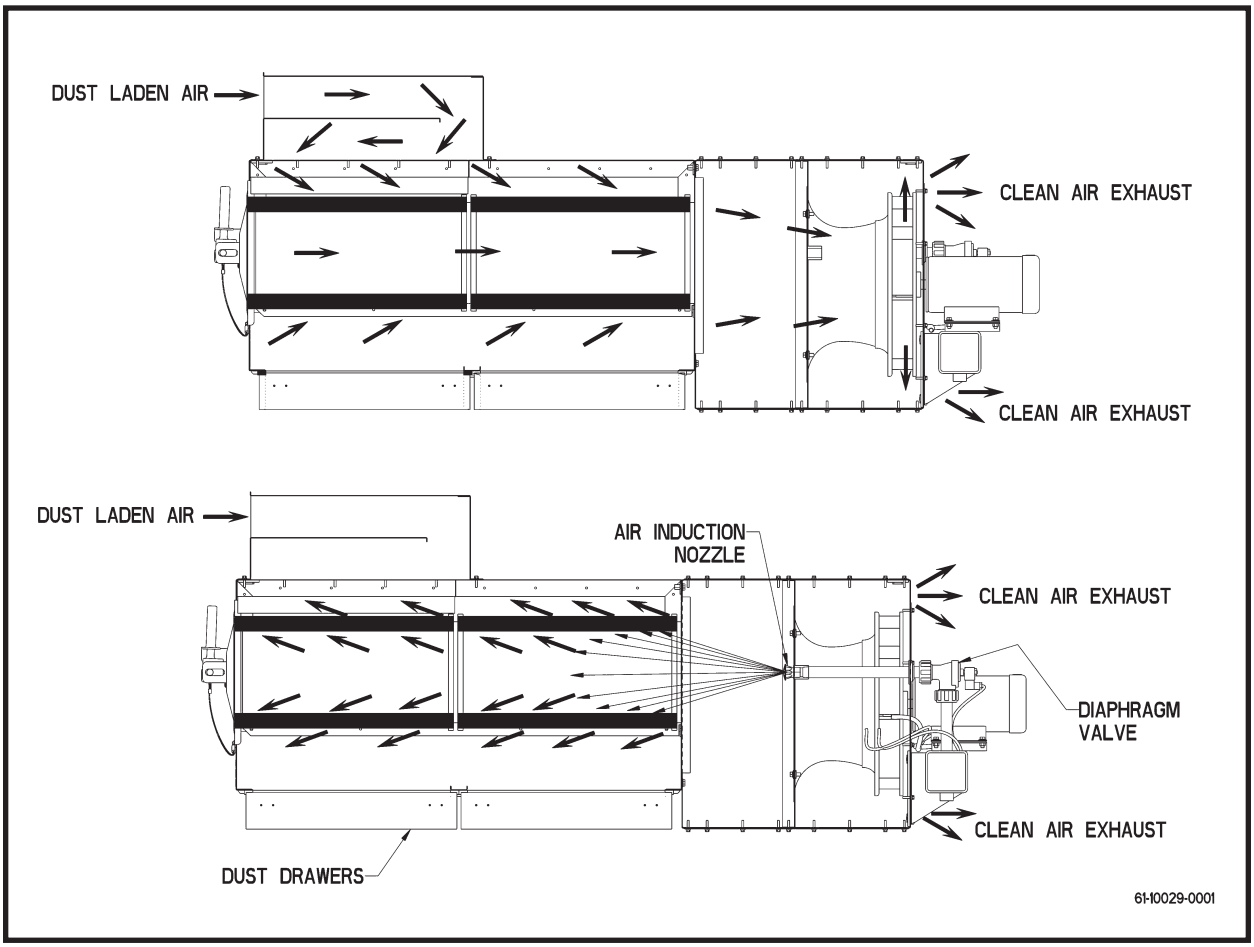


Figure 1. Operation Explanation

2.4 Inspection

Upon receipt of your unit, check for any shipping damage. A damaged carton indicates that the equipment may have received rough handling during shipping that may have caused possible internal damage. Notify your delivery carrier and enter a claim if any damage is found.

Remove the filter access doors and examine the seal between the tubesheet and filter. Make certain filter or gasket has not become dislodged during shipment. Refer to Section 5 Cartridge filter removal/installation. Replace doors once inspection is complete.

2.5 Installation Planning

2.5.1 Unducted or Area Capture

Consideration must be given to the placement of the dust collector to maximize its effectiveness. The number of units required to clean the air will depend on the layout of the room and the concentration and type of pollutants.

Because it is necessary to develop proper airflow patterns, the placement and number of dust collectors should be suggested by Parker or your local dust collection representative.

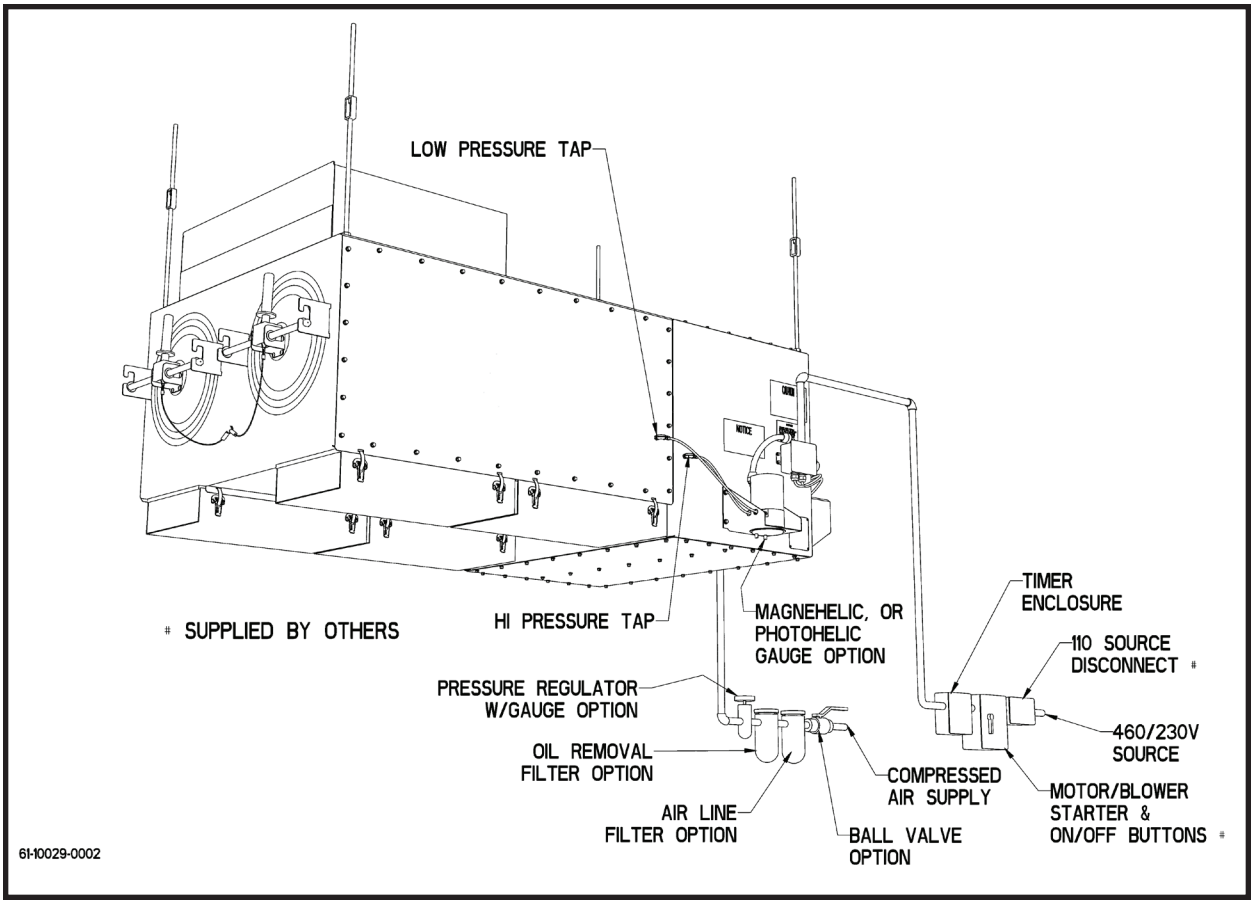


Figure 2. Typical Installation

2.5.2 Extension Arm (Source Capture) Application (SCB)

Locate the unit as near to the dust source as possible. The extension arms should be positioned for optimum work station reach and utilization. Take into account overhead crane travel, utility runs, etc.

2.5.3 All Applications

The collector should be located with consideration for emptying dust drawers, access doors, electrical and air connections and maintenance ease. In the case of hazardous dust, consult local authorities for the location of this unit and additional precautions to consider. The weight of the dust collector, its heaviest dust loading, and any additional components must be considered when determining the installation and mounting of these units.

3. Installation

3.1 Off Loading

A forklift is recommended for unloading and installation of the unit. Each SCA/SCB Series unit is shipped fully assembled from the factory, except for the extension arms, which must be attached after the unit is in place. Do not remove the unit from its shipping pallet. The pallet will be used to off load the unit and also to raise the unit for mounting. After off loading the collector, once again, inspect the unit for any possible damage.

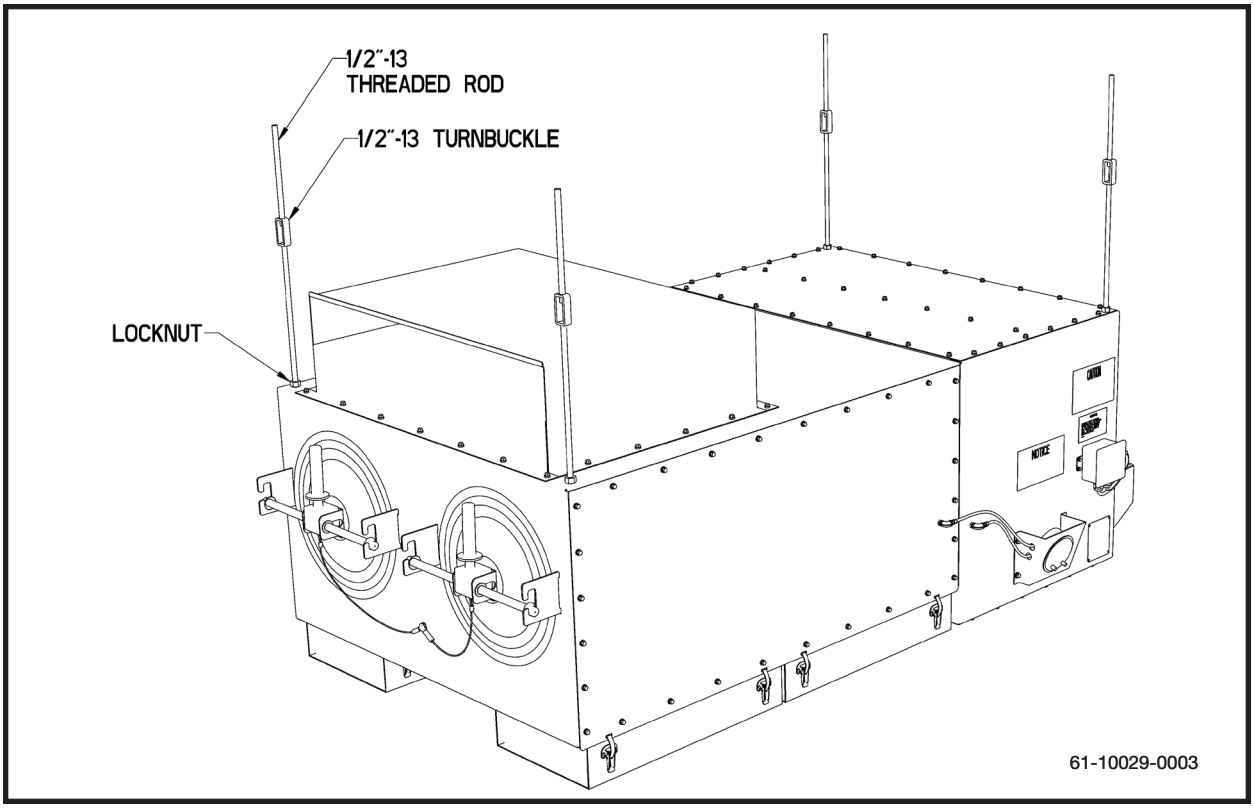


Figure 3. Suggested Mounting Technique

3.2 Mounting

SCA/SCB units are designed for suspended mounting using 1/2″ threaded rod, as shown in Figure 3. Other structural members may be used with plates bolted to the hole pattern on the top of the unit. Refer to Section 2.5.3.

Customer must take care to ensure that roof trusses are adequate to support unit weight, support members, dust loading and accessory items. The use of turnbuckles greatly simplifies installation and leveling. Rod length should be kept to minimum (36″ max. preferred). Other support means may be utilized for a particular location if proper care is exercised.

SCA/SCB units may be suspended from cantilevered supports on walls or columns, provided good practice is followed as outlined. Units mounted on walls should extend at least 24″ in keeping with good airflow design practice. After supports are in place, raise unit to position while it is still on its shipping pallet. Once unit has been secured, the pallet may be loosened and brought down by the forklift. The unit now may be leveled by adjusting the turnbuckles or appropriate means.

3.3 Extension Arm Mounting (SCB Series)

Remove the extension arms from their container. Inspect arms for any damage. If damage is present, follow procedures as outlined previously. Assemble arms according to the instructions supplied with each arm. Fasten the swivel base to the SCB unit as shown in Figure 4 and the supplied instructions. Check the arms for ease of rotation and freedom of movement. Adjust as necessary for maximum effectiveness.

3.4 Magnehelic® Gauge

The Magnehelic® gauge is factory installed and does not require connections by the customer. Refer to Figure 2 for typical Installation.

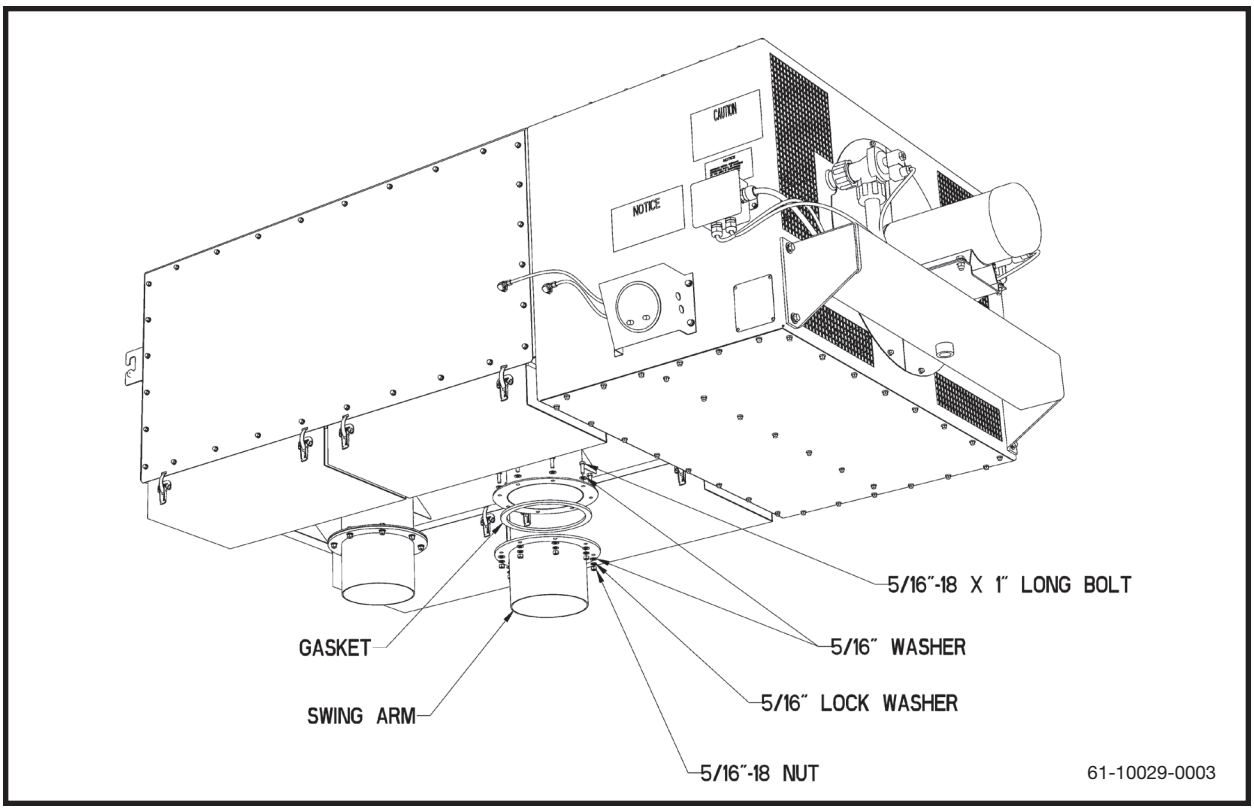


Figure 4. Extension Arm Installation

3.5 Photohelic® Gauge

When the Photohelic® gauge option is ordered, the gauge is factory installed and pneumatic lines are connected to the SCA/SCB. If the motor starter is factory supplied the gauge is pre-wired and does not require any connections by the customer. If the motor starter is not factory supplied, the Photohelic® gauge is pre-wired to an electrical junction box for connection by the customer. See Figure 2 for a typical installation and Figure 5 for a typical wiring diagram.

⚠ DANGER

ELECTRICAL SHOCK HAZARD

All electrical work should be performed by a qualified electrician in accordance with local and national codes.

Disconnect electrical power before making electrical connections or installing or servicing any electrical component.

3.6 Pulse Timer Control

The Pulse Timer Control assembly is shipped loose. The Pulse Timer Control should be mounted in an indoor vibration free environment. When making conduit connections take appropriate measures to protect the internal components from metal fines. Required electrical connections to the timer board include 120VAC power, solenoid valves and Photohelic gauge (Optional) located on the SCA/SCB, and motor starter auxiliary (isolated) contact in the starter panel. See Figure 5 for typical wiring.

The correct setting for the number of solenoid outputs for the SCA/SCB is two. For complete Pulse Timer Control operation details see the Pulse Timer Control Manual, Parker Part No. 44-2572.

3.7 Motor/Blower Control

A motor starter is required to start and stop the blower motor in the SCA/SCB and to protect the motor from over current. If the optional motor starter is not supplied by Parker see Figure 5 for typical wiring.

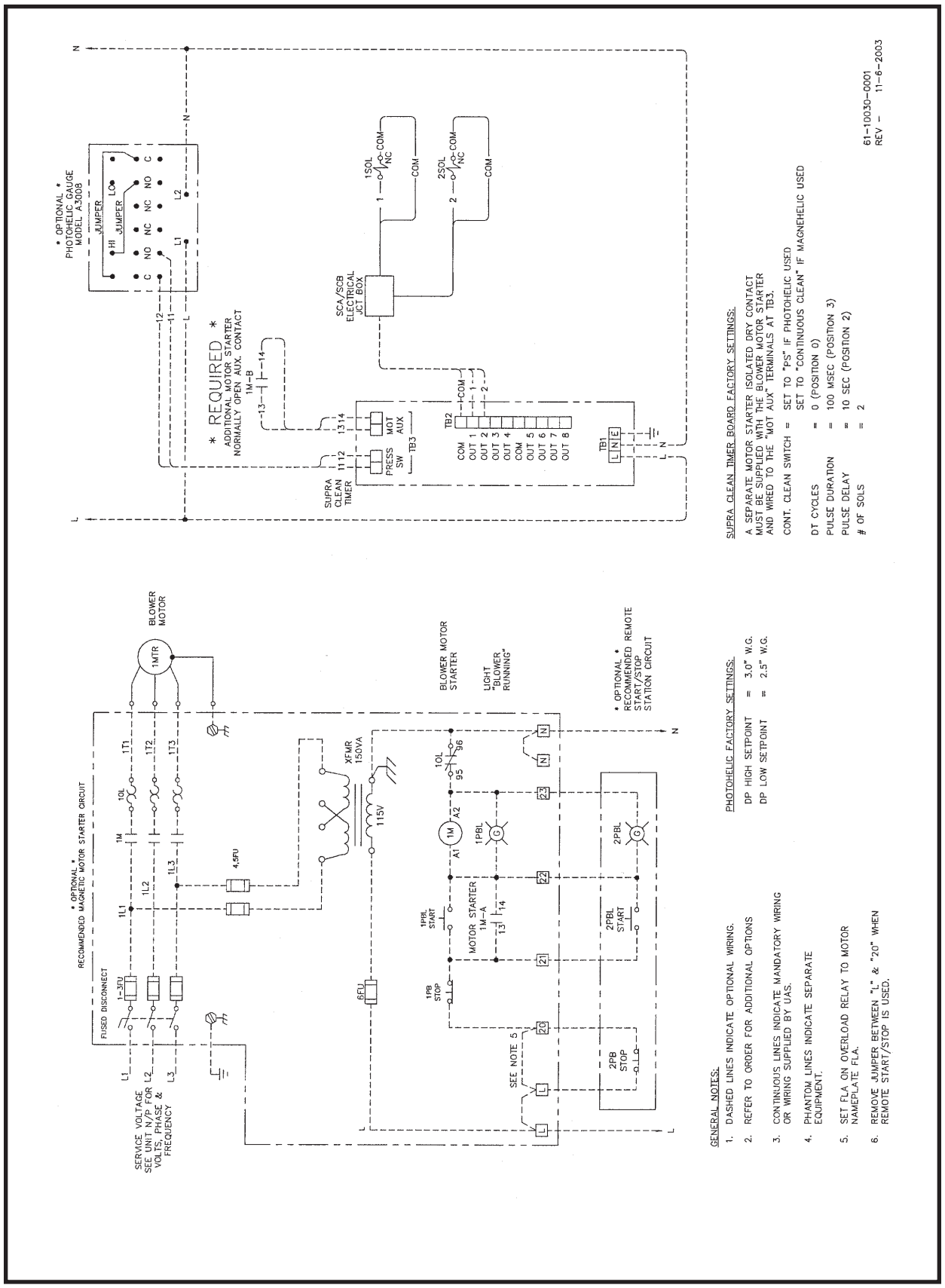


Figure 5. Electric Wiring

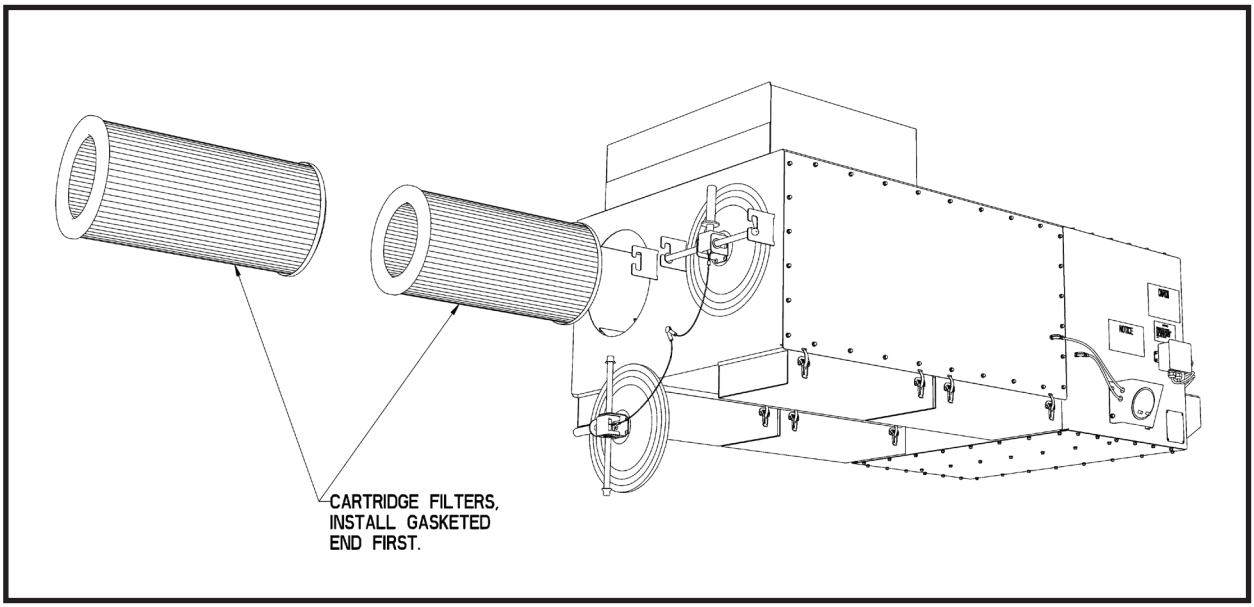


Figure 6. Filter Installation

3.8 Recommended Components for Proper Air Filtration

1. Air line filter with drain
2. Coalescing filter with drain
3. Air line regulator with 2˝ dia. gauge
4. On/Off ball valve

These components are absolutely necessary to assure that the air is clean and dry entering the dust collector. The PNEUMATIC VALVE KIT is available from Parker Hannifin, Inc. All components should be located for customer convenience and ease of service. Care should be taken to size piping properly from compressed air source to maintain demand pressure and volume (Refer to specifications). All piping should slope away from dust collector and have a drain valve (Refer to Figure 2 on page 4, Typical Installation).

4. Operation

4.1 Start-Up

⚠ CAUTION

Check to make certain top of unit and air exhaust plenum is free of all debris and tools before start-up. Serious injury may occur. Stand clear of air exhaust plenum.

With wiring complete, start fan motor and check for proper rotation. The fan will still deliver approximately 40% of its rated air volume but will require more horsepower when rotation is backward. It is extremely important, therefore, to ensure proper fan rotation. Correct rotation is clockwise when viewing fan from rear (top of motor) of unit.

Turn on air supply manifold. Adjust for 90-110 PSIG. This is the proper setting for efficient air cleaning and compressed air conservation. Check that the solenoid valves are operational. These valves should sequentially open and close at the factory setting duration of 10 seconds.

Adjust airflow with volume control damper located near the hood of the extension arm (if applicable).

4.2 Checklist

1) Check exhaust. Exhausting air should remain visibly clean. If a leak develops, it will be first noticed after a cleaning pulsation as a puff of dust.

2) Check pressure drop. Pressure drop across filter elements is considered normal at 1-5 inches w.g. Pressure drop will generally read at 3-4 inches on the Magnehelic Gauge for seasoned filters.

3) Check diaphragm valves to ensure proper sequencing. Make certain the # of solenoid outputs on pulse timer is set to “2”.

4.3 Adjustments

1) Timer Settings

Compressed air is to be regulated at a pressure of 90-110 PSIG. The control timer “Pulse Delay” is factory set to clean a line of filters every 10 seconds. The “pulse duration” is factory set at 100 milliseconds. Do not increase or decrease the “pulse duration”, you may waste compressed air or damage the diaphragm valves.

2) Cleaning Time Interval

Higher than design pressure drop across filter elements can often be lowered by increasing the frequency of cleaning (decreasing the interval between pulses). Factory setting is 10 seconds. Minimum dwell time between pulses is five (5) seconds. Less than 5 seconds will tax manifold reserve and cause a lack of cleaning pressure.

3) Down Time Cleaning

Upon motor/blower shutdown, downtime cleaning can be performed whether in pressure switch mode or continuous clean mode. To perform downtime cleaning, make certain the rotary switch on the timer labeled DT CYCLES is set to the number of cycles desired (1 on the switch indicates 1 cycle). During a downtime cleaning, the CLEAN light will flash for the duration of the cleaning period.

4) Photohelic Gauge Cleaning

The SCA/SCB uses a Photohelic gauge to determine when the filters need to be cleaned. SW2 on the timer board must be set to the “PS” position. The CLEAN light on the timer will remain on while the Photohelic pressure switch is closed.

5) Motor Aux Connection

An isolated contact from the motor/blower starter MUST be wired to the timer board “MOT AUX” terminals. The the motor starter auxiliary contact is not wired to the timer board the cleaning cycle will not be initiated.

4.4 Service

Before servicing:

1) Collected dust may be hazardous. Consult with proper authorities.

2) All collected dust may be a potential fire hazard.

3) Wear appropriate protective clothing.

4) Be environmentally aware of waste dust and its proper disposal.

5) Disconnect all electrical power to unit.

6) Shut down and bleed compressed air supply.

5. Cartridge Filter Removal and Replacement

Parker's Protura® Nanofiber filters are the only replacement filters which provide the superior level of performance expected from the SCA/SCB collector.

Replacement cartridges should be ordered when the differential pressure is consistently above 5" w.g. (127 mmAq) or system airflow is inadequate. To order filters, contact Parker at 888-343-4048.

1) Remove access doors. Allow door to swing out of the way on its safety cable.

2) Move filter from side to side to break gasket seal between filters and the tubesheet. Rotate the filters 90 degrees to allow dust on top to drop free.

3) Slide filter out along filter supports and capture in suitable disposal bags.

4) Inspect tubesheet and make certain the gasket sealing area is free of dust to ensure proper seal.

5) Install two (2) new Protura® filters on the filter supports, gasket end first. Clean door gaskets and reinstall the door assembly onto the unit (refer to Figure 6 on page 8).

6) The SCA/SCB is now ready for service. Lock on electrical power and turn on compressed air. Go through initial start-up checklist to ensure unit performance.

5.1 Dust Drawer Installation (See Fig. 7)

1) Orient dust drawer so that latches are in the full open posistion.

2) Use the small holes in the filter cabinet as guides for inserting latches into capture slots.

3) Rotate dust drawer so that the remaining latches can be placed into the slots in the side panel.

4) Clamp the drawer latches in the inner portion of the cabinet first, while doing so, ensure that the dust drawer is seated toward the inner flange that the latches are clamping to.

5) Clamp the remaining set of latches on dust drawer, making sure drawer is captured properly between cabinet side panel and inner flange of cabinet.

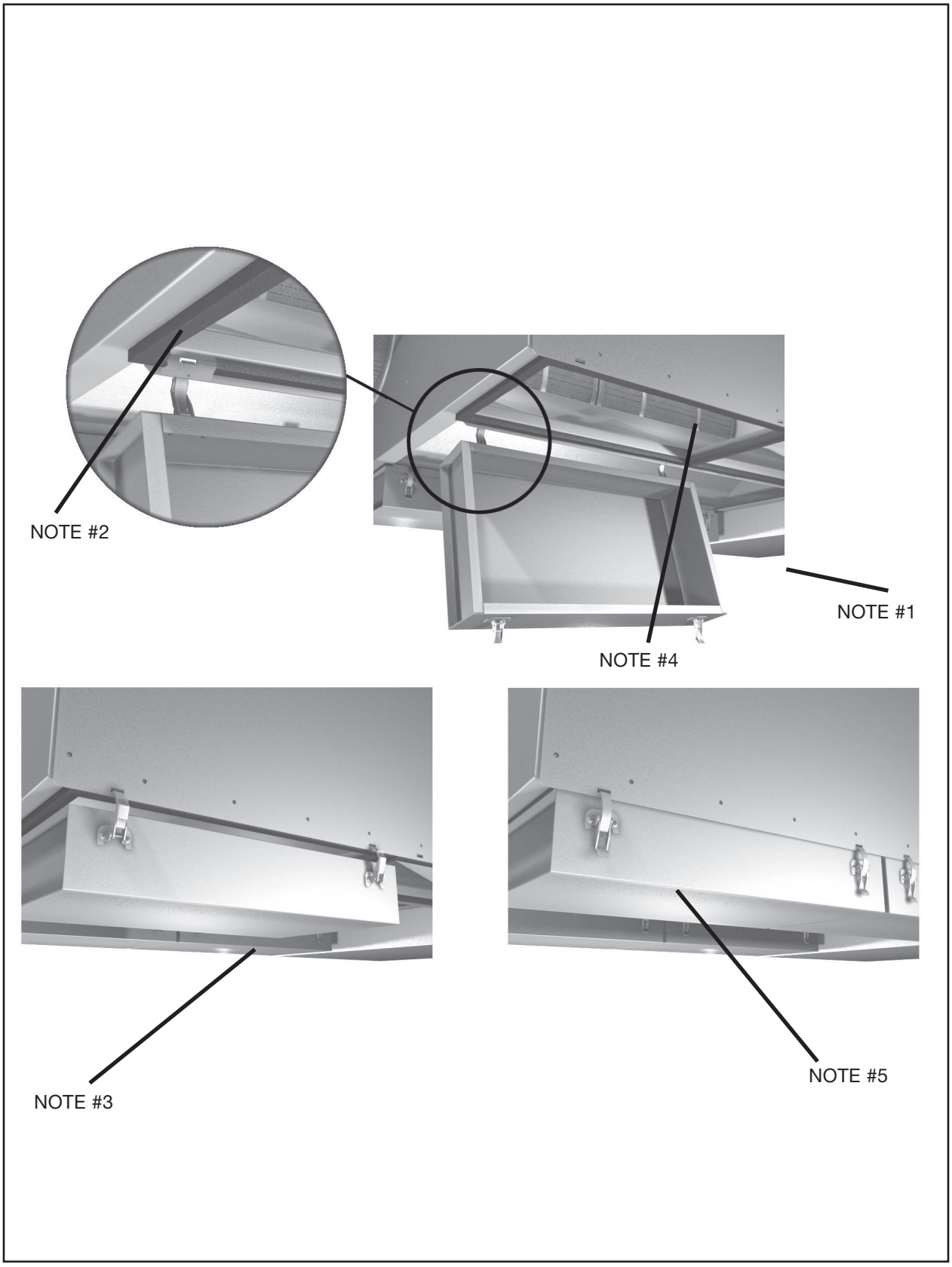


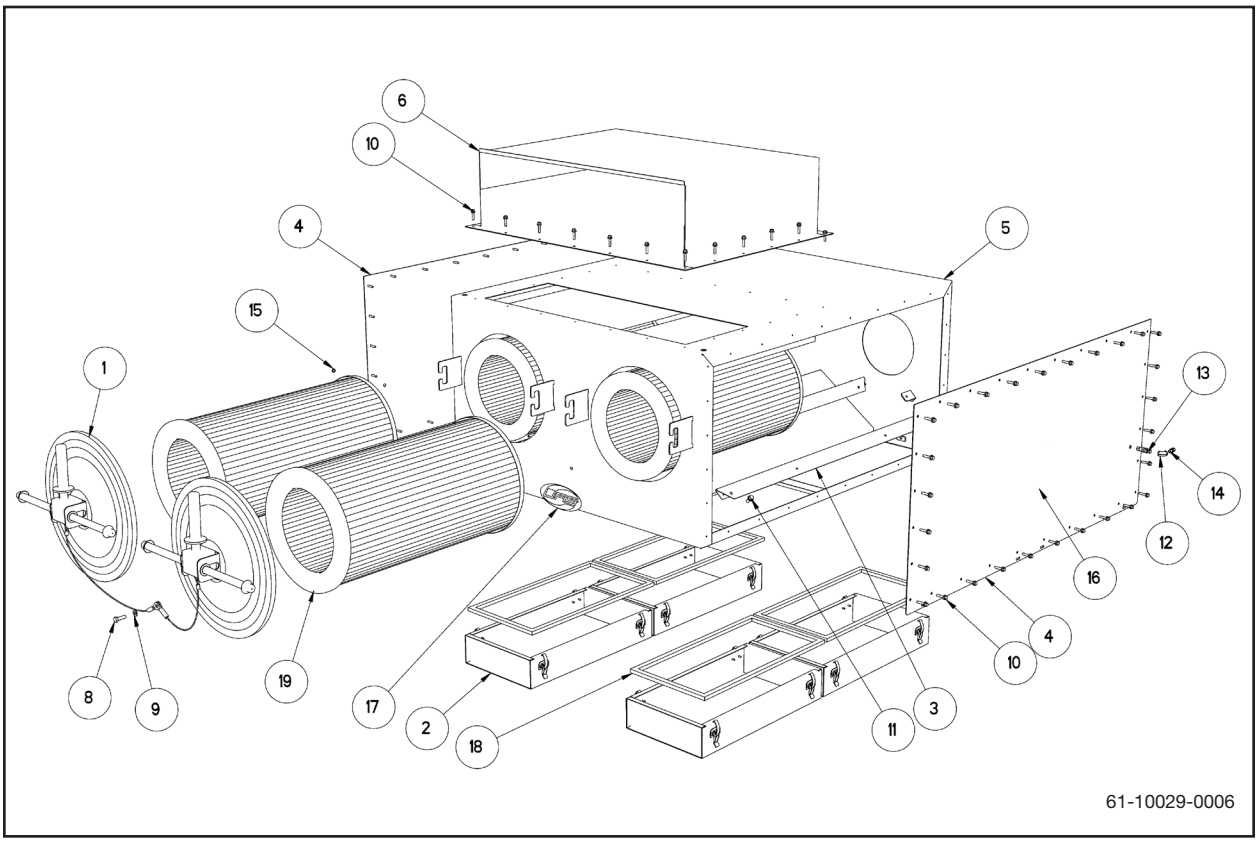
Figure 7. Dust Drawer Installation

6. Troubleshooting

Problem	Possible Cause	Recommended Solutions
Motor/Blower won't start.	Disconnect switch turned off.	Turn disconnect "on". Restart system according to Section 4
	Motor/Blower not wired correctly.	Check proper wiring connections for voltage used.
Motor/Blower starts, won't keep running.	Incorrect starter. Heaters or amperage setting.	Replace with proper size starter heaters or change overload amperage setting.
	Collector access covers off or loose.	Install and/or tighten access covers.
Dust emissions from clean air exhaust.	Filter elements installed incorrectly.	Reinstall filter elements. Refer to Section 5.
	Filter element damaged.	Replace filter elements.
Insufficient airflow.	Fan rotation backwards.	Check fan rotation. Refer to Section 4.1.
	Air inlet area restricted.	Check inlet or extension arms for obstructions and clear.
	Inlet damper closed (unit with extension arms).	Check and adjust according to need.
	Plugged filter elements.	Make certain pulse cleaning mechanism is on and functioning. Refer to Section 3.6 and Section 4.3. Compressed air supply should be 60-80 psig (100 psig max). Filter elements need to be replaced.
Pulsing failures of valves.	Ruptured diaphragm.	Disassemble valve in question and inspect diaphragm. Replace if necessary.
	Open solenoid coil.	Check continuity of solenoid coil with ohmmeter. Replace if necessary.
Both valves pulse simultaneously.	Timer inoperative.	Check timer for 110VAC pulse between each numbered terminal on timerboard and solenoid common terminal. Repair or replace as required.
	Open or short circuit in wiring between timer and solenoids.	Check continuity with ohmmeter or suitable tester and repair as required.
Continuous passage of compressed air through one or more pulsepipes.	Solenoid armature not seating properly (a steady flow of air from solenoid exhaust port is felt by placing a finger over the port).	Remove valve core from solenoid in question; disassemble the valve core. Remove particles of dirt, rust scale, etc. from the valve body and from around the armature. Check for smooth action and reassemble.
	Diaphragm valve air bleed hole or passage restricted.	Disassemble and inspect the diaphragm valve in question. Check for plugged air bleed hold in diaphragm. Check for rust scale or dirt causing diaphragm not to seal properly.

7. Illustrated Parts

Exploded View Filter Cabinet



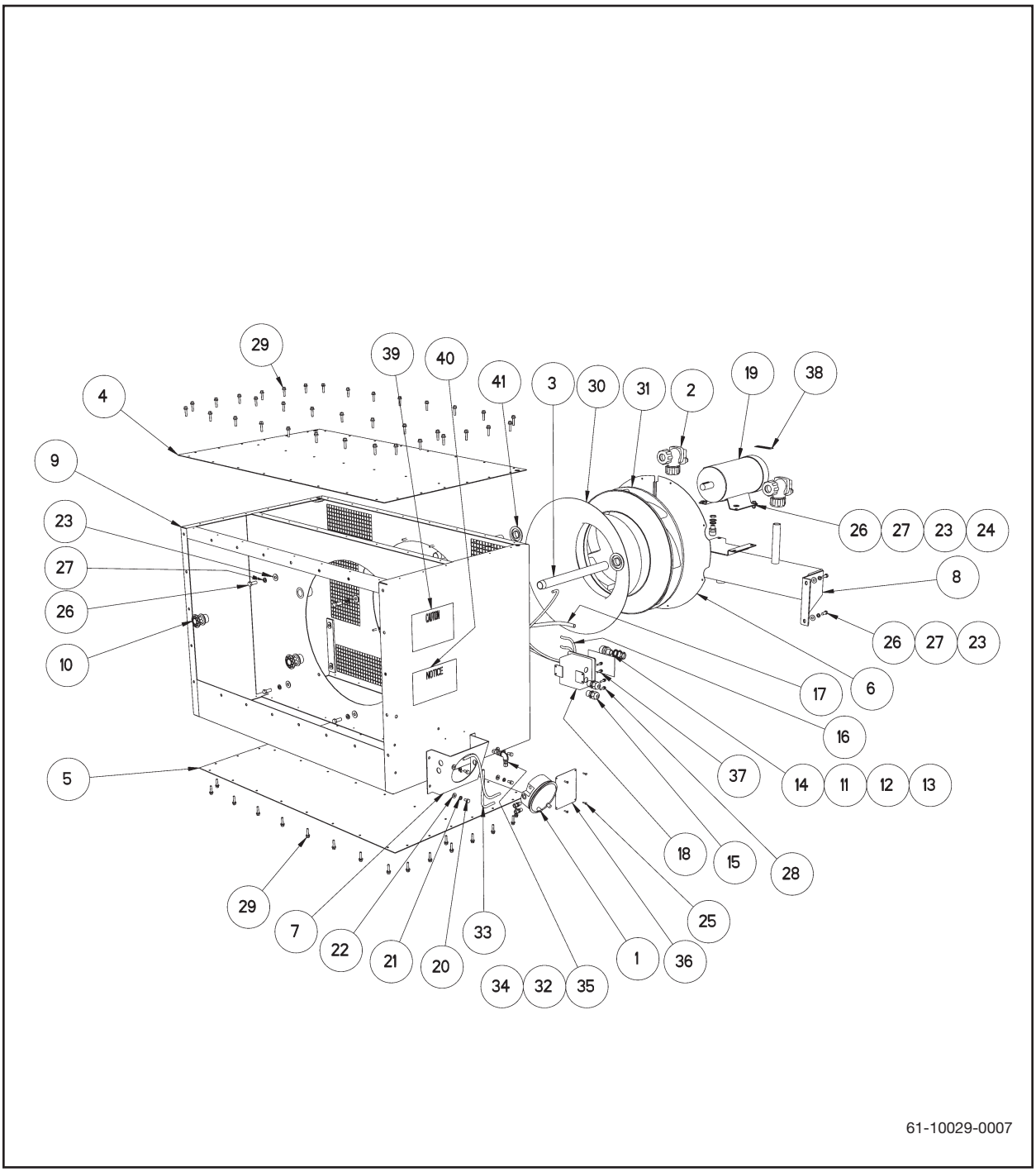
8. SCA/SCB Parts List

For Exploded View Filter Cabinet

Item No.	Qty.	Part No.	Description
1	2	02-10019-000lW	COVER,ASM,W/SUPPORT WIRE
2	4	02-10645-0001	ASM,DUST DRAWER
3	4	10-11245-0001	ANGLE,FMD,FILTER SUPPORT
4	2	10-11672-0001	PANEL,SIDE,FILTER CABINET
5	1	18-10628-0002	WDT,FILTER CABINET,SCA
5A	1	18-10628-0001	WDT,FILTER CABINET,SCB
6	1	18-10630-0001	WDT,TOP INLET,SCA
7	2.39	20-1475	POWER CORD, 14-4 SO 600V (NOT SHOWN)
8	1	30-0010	BOLT-HX, 5/16-18 X 1,ZP
9	1	30-0050	WASHER-FLT,SAE,5/16,ZP
10	78	30-0532	SCREW-TEK,HX,ADD/SEALWSH,1/4-14X1,#3
11	8	30-10054-0750	SCREW,HEX WASHER,5/16-18 X 3/4 LG,SWAGEFORM
12	1	38-0781	FTG,BULKHEAD,UNION,0.25T NYLON
13	1	39-10015-0002	PLUG,FINISHING,7/16” DIA.
14	2	41-10021-0001	LABEL,Parker
15	1	41-10021-0003	LABEL,Parker,3.3”
16	4	42-10039-0001	GASKET,DUST DRAWER,SCA/SCB
17	4	Filter	FILTER, Parker
18	2	39-10022-0001	CABLE, DOOR SAFETY

9. Illustrated Parts

Exploded View Blower Cabinet



10. SCA/SCB Parts List

For Exploded View Blower Cabinet

Item No.	Qty.	Part No.	Description
1	1	07-0135-08	GAUGE-MAGNEHELIC,0-8 RANGE: 0-8” WG
2	2	07-10002-0002	VALVE,DIAPHRAGM,1” COMP,DM25,W/ INT SOL
3	2	10-11599-0001	TUBE,PULSE VALVE,SCA/SCB
4	1	10-11665-0001	PANEL,TOP,BLOWER CABINET
5	1	10-11671-0001	PANEL,BOTTOM,BLOWER CABINET
6	2	10-11697-0001	PLATE,BLOWER COVER
7	1	10-7491	MAGNEHELIC GAUGE BRACKET
8	1	18-10625-0001	WDT,MANIFOLD,SCA/SCB
9	1	18-10627-0001	SCA,BLOWER CABINET WDT
10	2	19-10016-0001	NOZZLE,CARTRIDGE PULSE,NORDSON
11	2	20-0006	CONDUIT, SEAL RING, 1/2”
12	2	20-0096	COND.,LOCKNUT,1/2”
13	2	20-0360	WASHER, RED(ELECT) 3/4”-1/2”
14	2	20-0462	RELIEF-STRAIN,CONNECTOR EFCOR
15	2	20-0572	STRAIN RELIEF, HEYCO#3231
16	1	20-10088-0001	CORD, SJO, 18-3, 300V, .305” O.D.
17	1	20-1475	CORD, 14-4 SO 600V
18	1	20-1477	ELECTRICAL ENCLOSURE
19	1	22-10017-0001	MTR-3HP,230-460/3-60,1750 RPM,182T
19A	1	22-10019-0001	MTR,3HP,200/3/60,TEFC,1750 RPM,182T
20	4	30-0006	BOLT-HX, 1/4-20 X 1/2,ZP
21	4	30-0042	WASHER-LCK,1/4,ZP
22	4	30-0049	WASHER-FLT,SAE,1/4,ZP
23	16	30-0094	WASHER,FLT,SAE,3/8,ZP,W SERIES
24	4	30-0101	NUT-HX,3/8-16,ZP
25	4	30-0105	RIVET-BLD,PH,1/8 X 3/8,ZP
26	12	30-0147	BOLT-HX, 3/8-16 X 1,ZP
27	12	30-0153	WASHER-LCK,3/8,ZP
28	4	30-0305	SCREW-TEK,HX,WSH,10-16 X 3/4,ZP,#3
29	78	30-0532	SCREW-TEK,HX,ADD/SEALWSH,1/4-14X1,#3
30	1	32-10029-0002	INLET CONE,FULL WIDTH,222,STEEL
31	1	32-10034-0001	SCB,BLOWER WHEEL,STEEL,200-46.3%
32	1	38-0092	ELB-BS,1/8”,1NT THRD,90 DEG
33	1	38-0780	TBNG-POLYETH,1/4”0D X.040 WALL B
34	1	38-0781	FTG,BULKHEAD,UNION,0.25T NYLON
35	3	38-0782	CONN-BS,STR,MALE TBNG,1/8NPT TO
36	1	41-1280	NAMEPLATE, ID
37	1	41-1285	LABEL, NOTICE MOTOR OL PROTECT
38	1	41-1309	DECAL, ROTATION
39	1	41-1321	LABEL,CAUTION FILTER
40	1	41-1322	LABEL,NOTICE REPLACEMENT FILTER
41	2	42-10037-100P	GROMMET,1” PIPE,FLEXIBLE,SEALING

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 of 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, WETHER 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/dhfns

Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfns

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

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www.parker.com/rfde

Racor Research & Development
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www.kittiwake.com

Process Filtration

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

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