INSTRUCTION MANUAL
PROTECTOR WORK STATION
MODEL NO'S
69410-01, 69410-02
69410-03, 69410-05

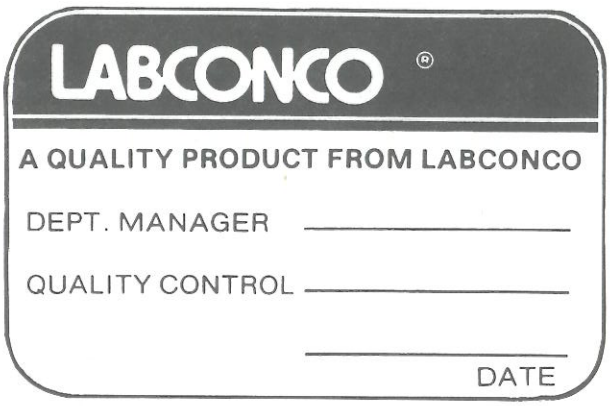
LABCONCO®

LABCONCO CORPORATION, 8811 PROSPECT, KANSAS CITY, MO. 64132, 816—333-8811

Dear Customer:

This letter is to ensure that you get the best performance from your Labconco product. We want to be sure you are satisfied. If damage has occurred in shipping, the customer must file a claim with the carrier **IMMEDIATELY! DO NOT** return any items to Labconco Corporation without written authorization from the factory. Contact Labconco Corporation directly for assistance on your equipment.

A great deal of care has gone into the engineering, production and ultimate quality control of your Labconco product. That is why we affix this badge to our products. Your satisfaction is of great concern to us.



We know that even the best products require service from time to time. So if this is ever true of your Labconco product, call the Labconco Service Dept. directly at (816) 333-8811, and ask for our service manager for all of the assistance that you need.

We suggest you keep all of this material together. It's nice to know you are protected, even though you may never need it.

WARNING: THE DISPOSAL OF SUBSTANCES USED IN CONNECTION WITH THIS EQUIPMENT MAY BE GOVERNED BY VARIOUS FEDERAL, STATE OR LOCAL REGULATION. ALL USERS OF THIS EQUIPMENT ARE URGED TO BECOME FAMILIAR WITH ANY REGULATIONS THAT APPLY IN THE USERS AREA CONCERNING THE DUMPING OF WASTE MATERIALS IN OR UPON WATER, LAND OR AIR AND TO COMPLY WITH SUCH REGULATIONS.

Sincerely,

LABCONCO CORPORATION

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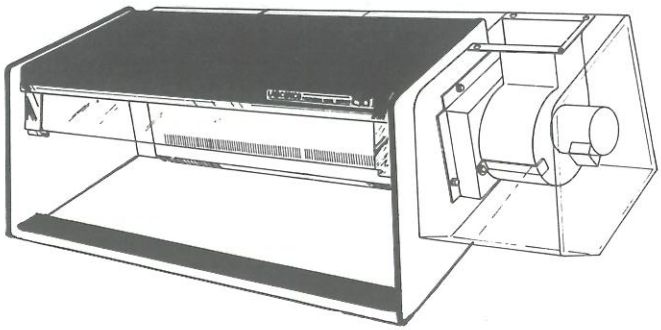
FORM 69492 REV. C / ECO 6510 / PRINTED IN U.S.A.

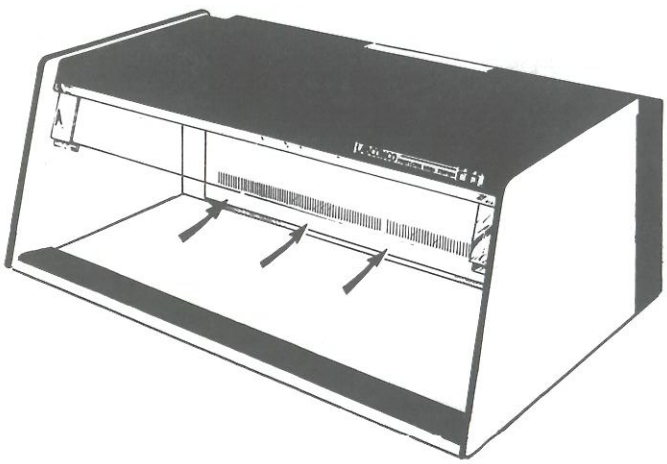
INTRODUCTION

General Description

Your Labconco Work Stations have been specifically engineered to meet the ventilation requirements of both pathology and histology applications.

The work station provides a continuous flow of air sufficient to extract contaminants within the work area, away from the air you breathe as you gross section, trim, stain, and coverslip your tissue samples.





Performance

The Labconco work station has been designed to allow you, the operator, maximum work area and personnel safety. The non-integral blower work stations can be exhausted from the top, back, or either side, thus minimizing expensive installation costs.

The integral blower work stations can be exhausted from a 6" x 6" duct connection located directly on top of the blower housing assembly. Should your integral blower work station feature the internal charcoal filter assembly, ducting to the outside of your laboratory would not be required.

Internal stainless steel baffle provides a uniform flow of air through the work station for each of the different exhaust connections listed for the non-integral style work station. The baffle is adjustable from the front of the unit.

All the work station models are designed to fit under existing laboratory cabinetry or on top of existing base cabinet structures.

DETAILED FUNCTION OF COMPONENTS

Work Station without Integral Blower

1. VIEWING PANEL—¼" tempered safety glass panel, pinned at both ends of the work station. This hinged viewing panel assembly swings up out of the way for access to the work station and back down for normal operation.

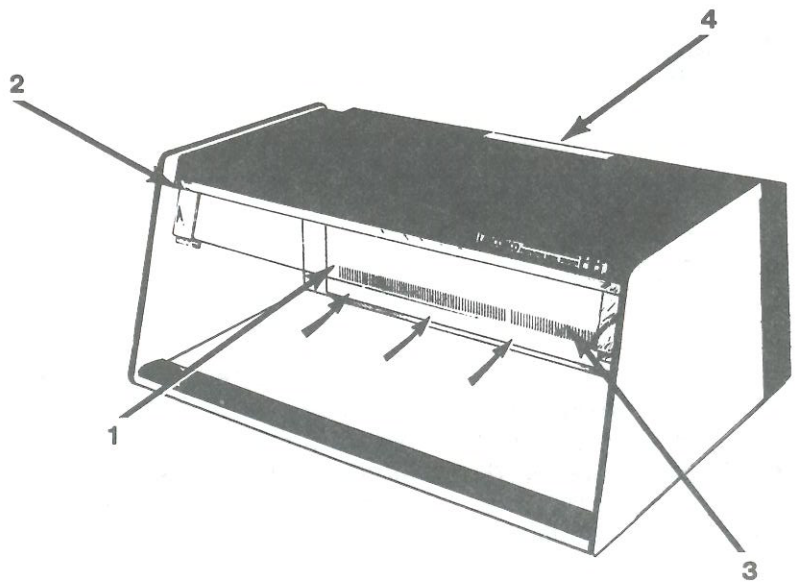
2. FLUORESCENT LIGHT FIXTURE—The work station interior is illuminated by a single 30 watt fluorescent light fixture that provides a non-glare working area.

3. STAINLESS STEEL BAFFLE—The stainless steel baffle allows you the ability to regulate the internal air flow to match the exhaust connection, that you have chosen to use.

4. EXHAUST CONNECTION—The work station is equipped with four different exhaust connection locations, to facilitate ease in your installation. The connections are located on the top, back and both sides of the work station exhaust plenum.

LABELED DIAGRAM

Work Station without Integral Blower



DETAILED FUNCTION OF COMPONENTS

Work Station with Integral Blower

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2. FLUORESCENT LIGHT FIXTURE—The work station interior is illuminated by a single 30 watt fluorescent light fixture that provides a non-glare working area.

3. STAINLESS STEEL BAFFLE—The stainless steel baffle allows you the ability to regulate the internal air flow to match the exhaust connection, that you have chosen to use.

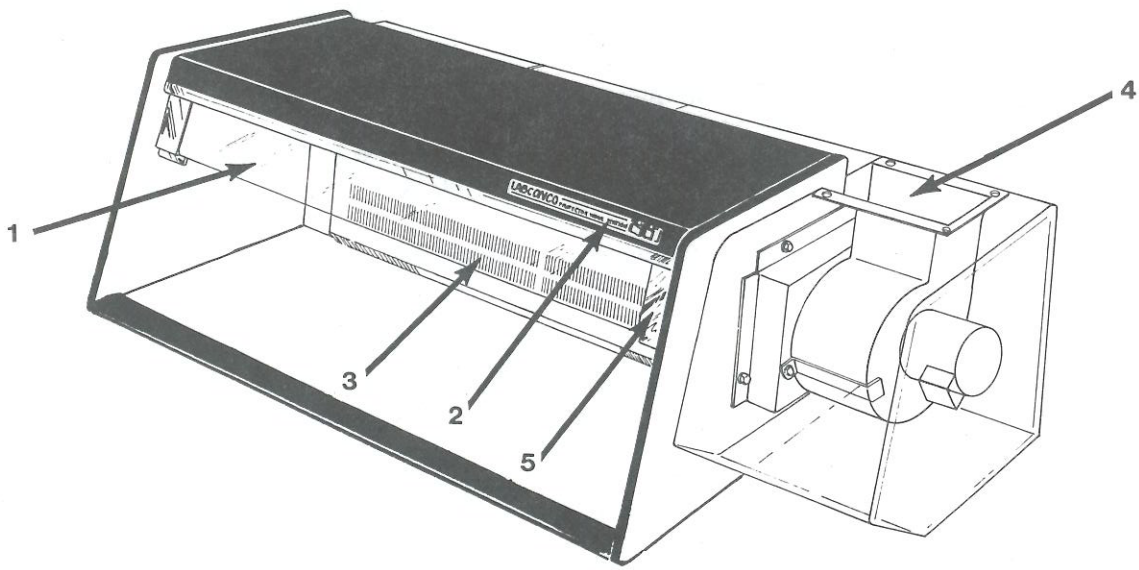
4. EXHAUST CONNECTION—The work station with integral blower, features a 6"x6" duct connection located directly above the blower housing assembly.

5.* CHARCOAL FILTER—The internal work station charcoal filter assembly is comprised of two 1⅜" thick filters placed back to back, giving you a combined 2¾" total bed thickness. These filters are used to absorb xylene, formaldehyde, and alcohol vapors.

*Filters are sold separately.

LABELED DIAGRAM

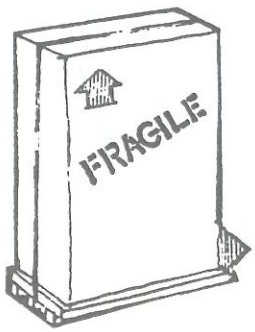
Work Station with Integral Blower



INSTALLATION

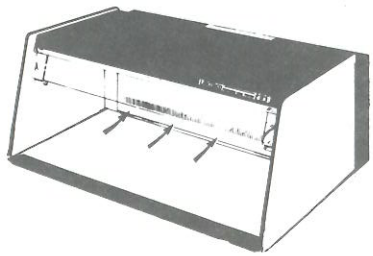
Your laboratory work station has been shipped to you fully assembled and ready for immediate installation and use.

If you ordered the work surface to go along with your work station, it also will be shipped individually, packaged and ready for immediate installation.



Inspect your work station and all accessory pieces of equipment thoroughly prior to installation.

Report any damage that may have occurred in transit, to your authorized laboratory supply dealer, or to Labconco Corporation directly at 1-816-333-8811, immediately.



INSTALLATION FACTORS

In positioning your work station, care should be taken to make sure that it is out of the main traffic pattern, and away from air disturbances such as doors, windows, air conditioning, or ventilation outlets.

Proper location for your work station is very important, as extraneous air currents can disturb the inward flow of air and overall performance that you will experience with your new work station.

In addition to determining the proper location for your work station, you will also need to provide the following:

1. Supporting base structure either with or without a chemically resistant work surface.

   Labconco does provide a chemically resistant work surface for use with the work station, part number 69420-00. This work surface is available through your authorized laboratory supply dealer.

2. Electrical service requirement of 115 V., single phase 60 Hz., 15 amp., or 220 V., single phase 50 Hz., 7 amp., depending on the specific model purchased.

3. Exhaust ductwork will also be needed to vent your work station to atmosphere. Exhaust ductwork is not required with work station 69410-02 as it is equipped with an integral charcoal filter pack assembly.

OPTIONAL EQUIPMENT
Work Surface—#69420-00

Corrosion resistant, solid epoxy work surface designed to accept standard cutting boards. The work surface itself features a 10" x 14" x 6" molded sink, dual controlled gooseneck faucet with vacuum breaker, and a spray nozzle and hose assembly with vacuum breaker.

The work surface is pre-plumbed at the factory and would require the following items for installation:

- 1½" drain connection for the molded epoxy resin sink.
- Plumbing supply lines for both hot and cold water to feed both the gooseneck faucet and spray hose assembly.

EXHAUST CONNECTIONS
Work Station without Integral Blower

Your Labconco work station without integral blower has been designed with four possible duct connection locations to assist you in your ducting layout.

The duct connections are located at the back, at the top, on each side and directly out the real plenum of the work station.
(See Diagram 1.)

Duct connectors are available from Labconco to aid you in ducting your work station.

Each of these duct connectors is constructed of zinc coated steel with an epoxy coated exterior finish. Both the mounting flanges and screw holes on these duct connectors are designed to fit the work station without any cutting or drilling in the field.

Description on the Labconco duct connectors are as follows:

Item	Labconco P/N	Description	Attachment Point
1.	69401	6″ dia. collar w/o damper	back
2.	69402	6″ dia. collar w/ damper	back
3.	69403	straight duct connector	R. end, L. end, top
4.	69404	90° duct connector	R. end, L. end, top

Consult your local laboratory supply dealer for purchase of these necessary items.

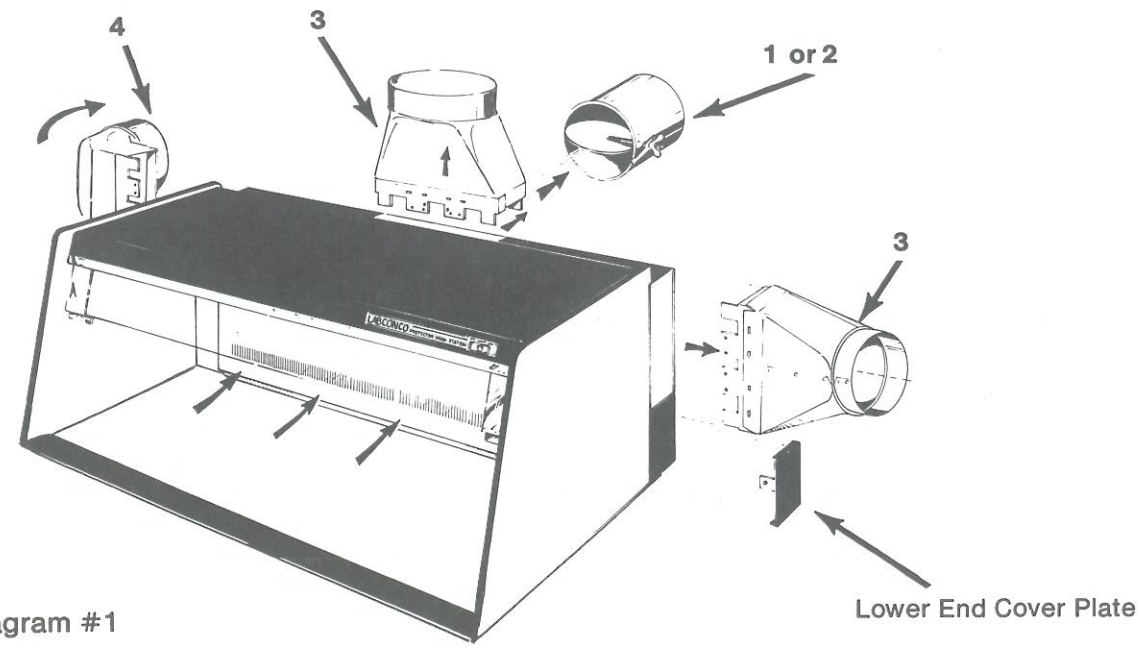


Diagram #1

The installation of the Labconco duct connectors to your work station are as follows:

Rear Plenum Connection Connectors #69401 and 69402

1. Remove the existing cover plate from the back of the unit.
2. Reinstall the cover plate screws back into their mounting holes and disgard the cover plate itself.
3. Twist the connector into the 6" dia. hole in the rear plenum. Align the slot in the connector flange with the slot in the rear plenum as you begin to twist them together.
4. Once the connector has been seated completely, seal around the connection point with a clear silicone sealant.

Side Plenum Connection Connectors # 69403 and 69404

1. Remove the desired end cover plate, and save the screws for usage later.

> NOTE: Screws attaching the front end of the side cover plates are accessible from inside the work station.

2. Insert the connector into the mounting opening with the mounting tabs toward the front of the work station.
3. Fasten the front tabs of the connector with two #8 x ½" sheet metal screws. These screws are installed from inside the work station.
4. Fasten the back tabs on the connector with two #8 x ½" sheet metal screws into the holes provided in the unit.
5. The space below the connector is to be covered by a lower end plate provided by the unit. Fasten the small cover plate with the original mounting screws.

Top Plenum Connection Connectors #69403 and 69404

1. Remove the existing cover plate from the top of the unit.
2. Re-install the cover plate screws back into their mounting holes and disgard the cover-plate itself.
3. Insert the connector, either 69403 or 69404 into the mounting opening with the tabs turned toward the front of the work station.
4. Attach the tabs to the work station by way of two #8 x ½" sheet metal screws to holes already provided. Access to allow for the fastening of these screws is done by removing the rear cover plate.
5. Fasten the rear flange by two #8 x ½" sheet metal screws into the holes provided in the work station.
6. Seal around the connection point with a clear silicone sealant and replace the back cover plate.

Remote Blower Installation

The remote blower part number 70535 features a ¼ h.p. motor and a epoxy coated steel housing and wheel assembly.

In connecting your remote blower or other ventilation exhaust system to your work station, use a flexible boot at the exhaust blower to eliminate any vibration from your remote blower transmitting through your ductwork.

NOTE: An explosion proof remote blower part number 70535-01 is available from Labconco Corp., if your particular situation warrants it. Contact your local authorized laboratory supply dealer for additional information.

Labconco remote blower part number 70535 can be purchased separately if required.

Contact your local authorized laboratory supply dealer for ordering information.

To install the remote blower unit, follow the directions as listed below.

1. Inspect your remote blower for any damage they may have occurred during transit.
2. Mount your remote blower on a resilient material to eliminate as much vibration from transmitting from the blower, through the ductwork to the workstation itself.
3. Use a flexible boot to attach the exhaust ductwork to the blower inlet connection to reduce vibration transmission.
4. Remove the coverplate on the motor and follow the motor manufacturer's instructions for lead wire connection.
5. Wire the motor for proper rotation as marked on the blower housing.
6. Complete the wiring of the remote blower by connecting to both a circuit breaker and on/off switch.

Air Flow Adjustment

Work stations without integral blower.

Once you have completed the ducting for your work station, you should check the face velocity of the air entering the work station, by the usage of an anenometer.

The recommended face velocity for your work station that will adequately contain vapors inside the work station is between 50-60 fpm.

If you are experiencing a higher face velocity than those recommended, a baffle adjustment should be used to bring your airflow back within the desired guidelines.

To adjust the internal baffle on your work station, follow the instructions as listed below.

1. Loosen the two retaining screws located near the top at each side of the plenum cover. (See diagram #2)
2. Grasp both sides of the plenum cover and rotate it down to rest on the work surface.
3. Loosen the damper shutter screws, by the use of a phillips screwdriver, and adjust open or closed, depending on your airflow situation, the damper shutter.
4. Tighten the adjusting screws on the shutter once the correct position has been obtained, and then rotate the plenum cover back up into its original position, replace and tighten both retaining screws.
5. Check the airflow through the front of the work station for both adequate velocity and uniform distribution. If you still experience problems with your airflow velocity or distribution, repeat steps 1 thru 5.

WARNING: If your work station is ducted out of one of the end positions, the damper shutter may be adjusted slightly more closed than the opposite shutter to achieve a more uniform face velocity.

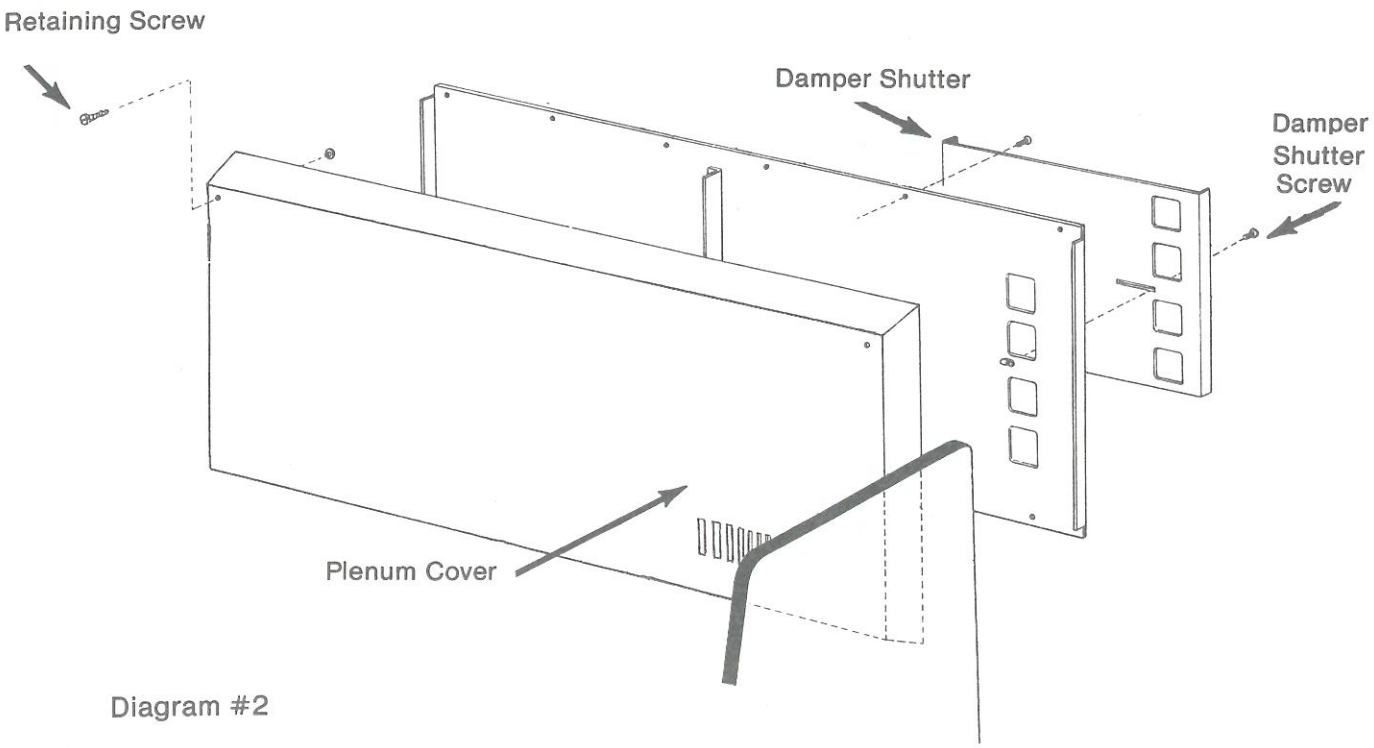


Diagram #2

EXHAUST CONNECTIONS
Work Station with Integral Blower

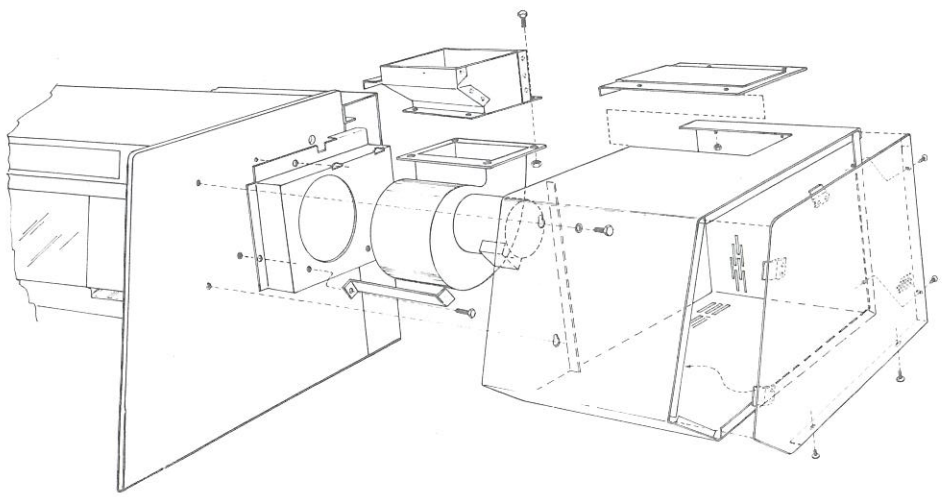
Your Labconco work station with integral motor/ blower features a 6" x 6" duct connection located directly on the top of the blower housing assembly. This allows for a direct connection to your exhaust ductwork.

Should your work station feature the integral charcoal filter pack assembly, ducting of the unit would not be required as the vapors being used inside the work station would be absorbed by the filter pack.

> WARNING: Even though it is not required that the work station with integral charcoal filter be exhausted to the outside, we as the manufacturer would recommend that this be done as an added safety precaution.

AIRFLOW ADJUSTMENT
Work Stations with Integral Blower

Your work station featuring the integral blower has been factory adjusted to obtain the best possible air flow across the face opening of the unit. The internal baffle is not adjustable in the field so if you do experience air flow problems during usage, please contact your local authorized laboratory supply dealer or call Labconco directly at 1-816-333-8811, for assistance.



CHARCOAL FILTER INSTALLATION
Initial Usage

To prevent damage during transit and to prevent moisture from prematurely saturating the filters prior to usage, your charcoal filter pack has been shipped independently.

The filters are packaged in an air-tight plastic bag with desiccant to prevent moisture absorption by the filters prior to usage.

To install your charcoal filters in the work station, follow the instructions as listed below:

1. Loosen the two retaining screws located near the top of each side of the plenum cover.
2. Grasp both sides of the plenum cover and rotate it down to rest on your work surface.
3. Install both filters into the filter frame, making sure that the bottom back edges of the filters are tucked under the filter frame flange.

CAUTION: When using formaldehyde in your work station, always place the charcoal filter type CI (marked with a red label) in back of the charcoal filter type AC (marked with a white label).

4. Rotate the plenum cover back up into its normal operating position and tighten both of the retaining screws.

To replace the filters in your work station once they have become fully loaded during normal usage, follow the instructions as listed below:

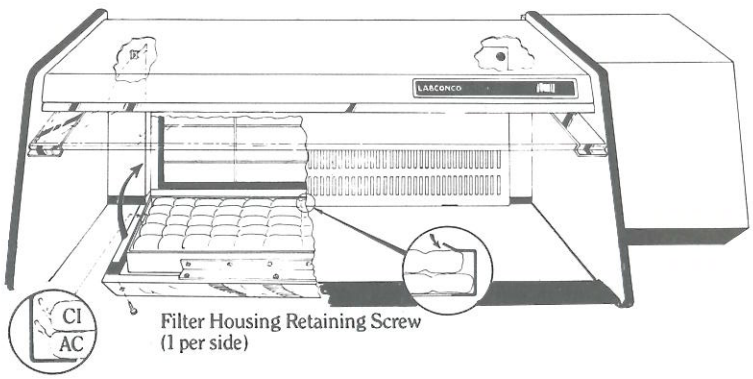
1. Loosen the two retaining screws located near the top of each side of the plenum cover.
2. Grasp both sides of the plenum cover and rotate it down to rest on your work station.
3. Remove the used charcoal filters and place in the plastic bag that has been provided for their disposal.

WARNING: Observe all Federal, State, and local EPA regulations for the disposal of hazardous materials when disposing of your charcoal filters.

4. Install both filters into the filter frame, making sure that the bottom back edge of the filters are tucked underneath the filter frame flange.

CAUTION: When using formaldehyde in your work station, always place a charcoal type CI (marked with a red label) in back of the charcoal filter type AC (marked with a white label).

5. Rotate athe plenum cover back up to its normal operating position and tighten both of the retaining screws.



Type CI Filter (Red Label)
Type AC Filter (White Label)

IMPORTANT: Warning: Used filters are hazardous material. Observe all federal, state and local EPA regulations for handling and disposal.

FLAMMABLE — keep away from heat or open flame.

Replacement filters for your work stations can be ordered under the following part numbers.

Catalog No.	Description
69408	Labconco Xylene/Alcohol Filter Pack (1 set of 2 filters for 24" high model).
69409	Labconco Formaldehyde Filter Pack (1 set of 2 filters for 24" high model).

Sealing the Work Station

When using the optional work surface P/N 69420-00 or other work surface in conjunction with your work station, it is recommended that you seal the work station securely to the work surface to prevent any spilled materials from collecting under the walls of the work station and becoming trapped in areas unaccessible during normal cleaning.

Silicone sealants can be used to provide their seal between the work surface and the work station itself in this situation.

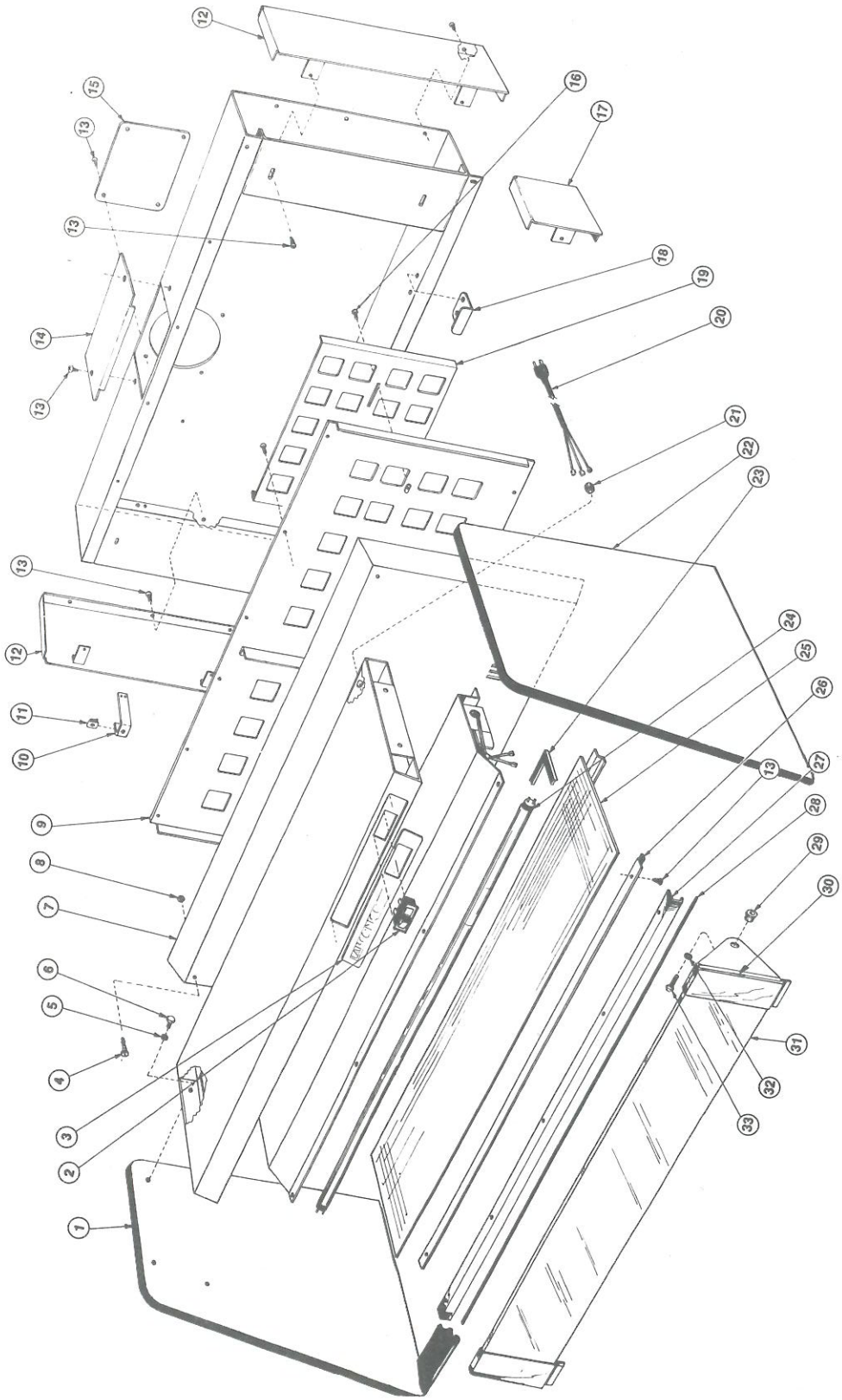
NORMAL OPERATION

- Although the work station has been ENGINEERED to maintain the optimum in operator safety, caution should always be used while working at the work station.
- Good general housekeeping procedures with the following specific recommendations should allow you to operate your work station safely.
- Do not overload the work station work surface with apparatus or work material. The safe operation of the work station is based upon having proper airflow through the structure.
- Do not block the bottom of the baffle. This will change the air flow pattern in the work station causing turbulence and possible leakage at the face of the work station. (Don't store containers, etc. against baffles as this will affect air flow through the work station.)
- Do not use flammable or explosive materials in this work station unless it has been built with explosive proof components.
- Do not work or store chemicals in this work station without the exhaust system running.
- Do not use perchloric acid in this work station.
- Do not use high level radioisotope materials in this work station.
- Do not use heat generating equipment in this work station with the filters in place on filtered units.
- Seal all ductwork joints properly to prevent the leakage of any exhaust contaminants into your room.
- Always work four (4) inches behind the foil.

ROUTINE MAINTENANCE

- Mild soap and water should be used to clean both the stainless steel and phenolic material should they become dirty.
- The exhaust motor on your remote blower has been factory lubricated for two years of service. After this period, 20-30 drops of SAE 20 automotive oil annually is sufficient. Reference nameplate on the motor for additional oiling instructions.

REPLACEMENT PARTS DRAWING
Models 69410-03



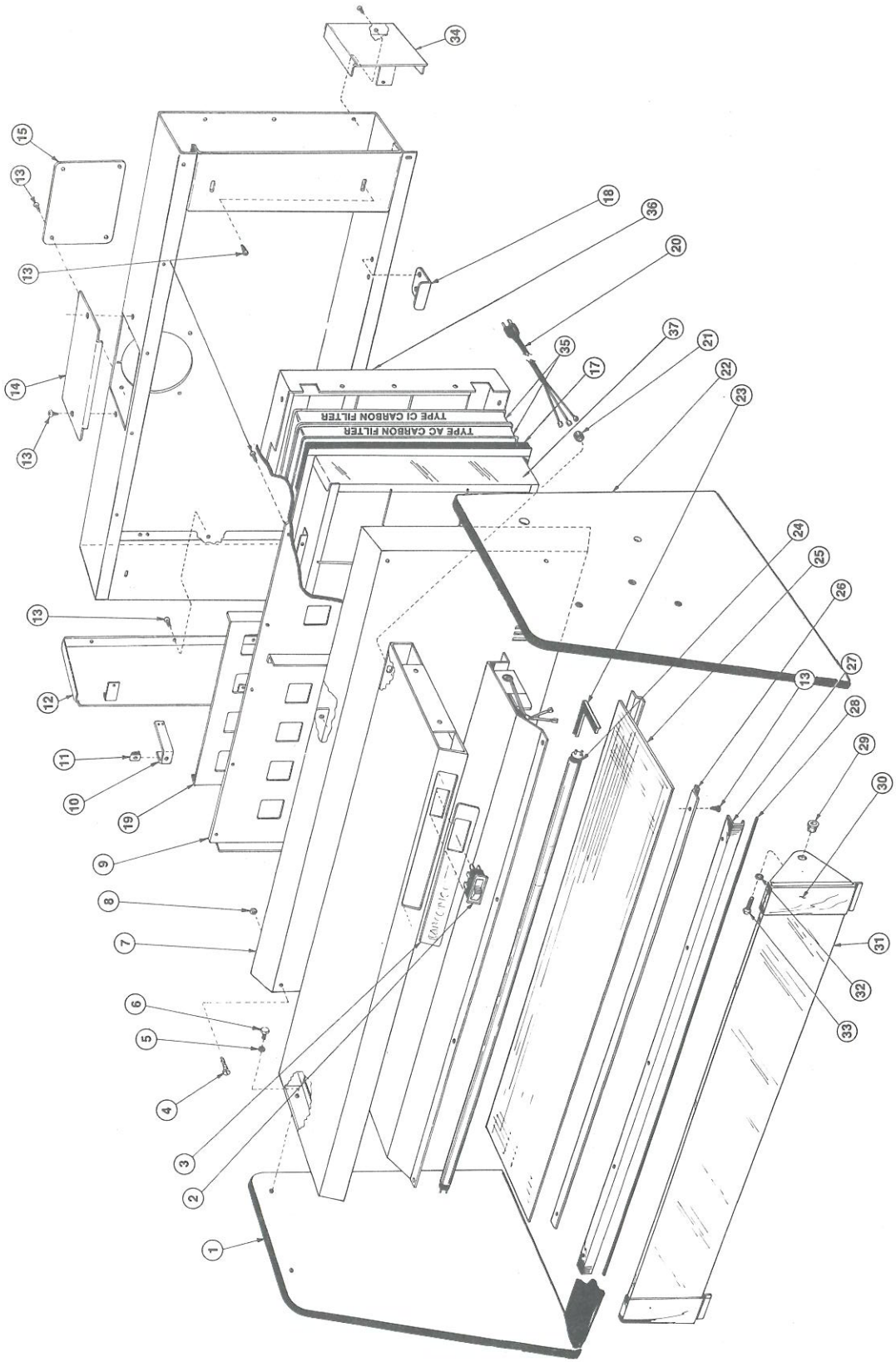
REPLACEMENT PARTS LIST

Model No. 69410-03

	Description	Part No.
1.	Side Panel Left	69593
2.	Switch	13257
3.	Nameplate Decal	69491
4.	Captive Screw	19236
5.	Lockwasher ¼	19100-16
6.	Screw ¼-20 x ½ Hex Head	18807-08
7.	Plenum Assembly	69571
8.	Retainer	19238
9.	Plate Assembly	69480
10.	Clip Side	69474
11.	Receptacle Clip On	19239
12.	Cover End Assembly Full	69486-01
13.	Screw #8 x ½ Truss Hd. Phillips S.S.	18948-08
14.	Cover Top	69485
15.	Cover Back	69484
16.	Screw #8 x ½	18893-08
17.	Cover End Lower Assembly	69489-01
18.	Clip Bottom	69473
19.	Damper	69483
20.	Power Cord Assemby	69459
21.	Bushing	13467
22.	Side Panel Right	69593-01
23.	Tape Vinyl Foam ¼ x ½ (ft.) (10 ft. Req'd/unit)	15918
24.	Fluorescent Lamp 36F30T12	12779
25.	Lamp Shield	69460
26.	Shield Retainer Bracket	69461
27.	Front Trim	69462
28.	U Channel Rubber (ft.) (4 ft. Req'd./unit)	16431
29.	Sash Bushing	69470
30.	Gasket Wiper	69573
31.	Sash Glass	69575
32.	Washer Flat ¼ S.S.	19113-16
33.	Screw ¼-20 x ⅝ Pan Hd. Phillips S.S.	18876
34.	Foil	69582
35.	Spacer	69583

* Not Showing

REPLACEMENT PARTS DRAWING
Models 69410-01 69410-02
Model 69410-05



REPLACEMENT PARTS LIST

Model No.'s 69410-01, 69410-02

	Description	Part No.
1.	Side Panel Left	69593
2.	Switch	13269
3.	Nameplate Decal	69536
4.	Captive Screw	19236
5.	Lockwasher ¼	19100-16
6.	Screw ¼-20 x ½ Hex Head	18807-08
7.	Plenum Assembly	69571
8.	Retainer	19238
9.	Plate Assembly	69480
10.	Clip Side	69474
11.	Receptacle Clip On	19239
12.	Cover End Assembly Left	69486-01
13.	Screw #8 x ½ Truss Hd. Phillips S.S.	18948-08
14.	Cover Top	69485
15.	Cover Back	69484
16.	Screw #8 x ½	18893-08
17.	Foam Seal ⅜" x ½" (per ft.) 10 ft. Req'd.	15962
18.	Clip Bottom	69473
19.	Damper	69483
20.	Power Cord Assembly	69459
21.	Bushing	13467
22.	Side Panel Right	69592
23.	Tape Vinyl Foam ¼ x ½ (ft.) (10 ft. Req'd./unit)	15918
24.	Fluorescent Lamp 36F30T12	12779
25.	Lamp Shield	69460
26.	Shield Retainer Bracket	69461
27.	Front Trim	69462
28.	U Channel Rubber (ft.) (4 ft. Req'd./unit)	16431
29.	Sash Bushing	69470
30.	Gasket Wiper	69573
31.	Sash Glass	69575
32.	Washer Flat ¼ S.S.	19113-16
33.	Screw ¼-20 x ⅝ Pan Hd. Phillips S.S.	18876
34.	Cover End Assembly Right	69560-01
35.	Carbon Filter Replacement Kit	69419
36.	Rear Frame Assembly	69505-01
37.	Filter Frame Assembly	69509-01
38.	Foil	69582
39.	Spacer	69583

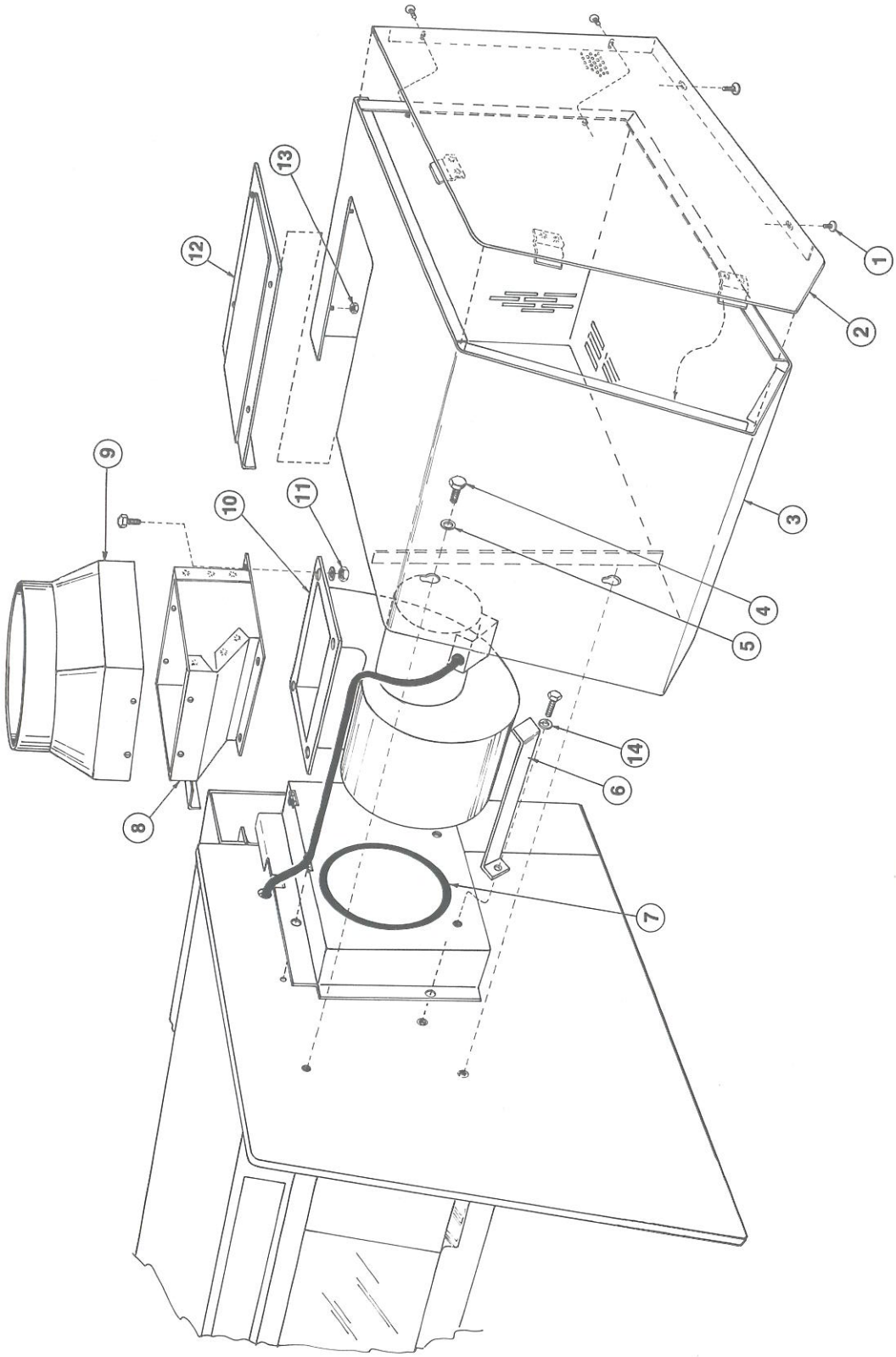
* Not Showing

Model 69410-05

	Description	Part No.
1.	Side Panel Left	69593
2.	Switch	13257
3.	Nameplate Decal	69491
4.	Captive Screw	19236
5.	Lockwasher ¼	19100-16
6.	Screw ¼-20 x ½ Hex Head	18807-08
7.	Plenum Assembly	69571
8.	Retainer	19238
9.	Plate Assembly	69480
10.	Clip Side	69474
11.	Receptacle Clip On	19239
12.	Cover End Assembly Left	69486-01
13.	Screw #8 x ½ Truss Hd. Phillips S.S.	18948-08
14.	Cover Top	69485
15.	Cover Back	69484
16.	Screw #8 x ½	18893-08
17.	Foam Seal ⅜" x ½" (per ft.) 10 ft. Req'd.	15962
18.	Clip Bottom	69473
19.	Damper	69483
20.	Power Cord Assembly	69589
21.	Bushing	13467
22.	Side Panel Right	69592
23.	Tape Vinyl Foam ¼ x ½ (ft.) (10 ft. Req'd./unit)	15918
24.	Fluorescent Lamp 36F30T12	12779
25.	Lamp Shield	69460
26.	Shield Retainer Bracket	69461
27.	Front Trim	69462
28.	U Channel Rubber (ft.) (4 ft. Req'd./unit)	16431
29.	Sash Bushing	69470
30.	Gasket Wiper	69573
31.	Sash Glass	69575
32.	Washer Flat ¼ S.S.	19113-16
33.	Screw ¼-20 x ⅝ Pan Hd. Phillips S.S.	18876
34.	Cover End Assembly Right	69560-01
35.	Carbon Filter Replacement Kit	69419
36.	Rear Frame Assembly	69505-01
37.	Filter Frame Assembly	69509-01
38.	Foil	69582
39.	Spacer	69583

* Not Showing

REPLACEMENT PARTS DRAWING
Integral Blower Assembly
Models 69410-01, 69410-02, 69410-05



REPLACEMENT PARTS LIST
Integral Blower Assembly
Model's 69410-01, 69410-02

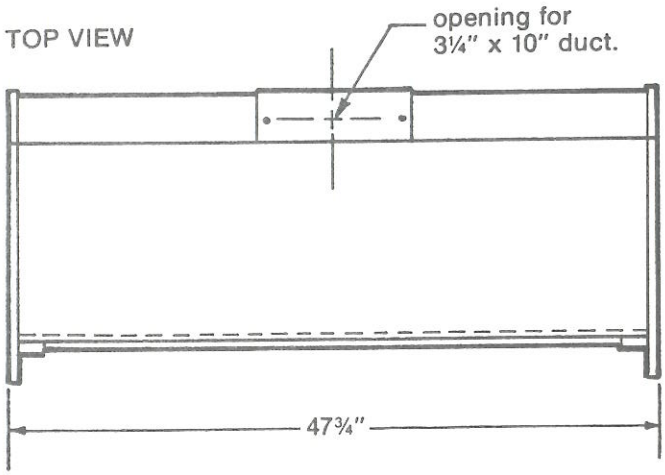
	Description	Part No.
1.	Screw #8 x ½	18949-08
2.	End Cover Assembly	69551
3.	Blower Housing Assembly	69540
4.	Screw ¼-20 x ½	18807-08
5.	Flat Washer #12	19115-12
6.	Blower Clamp	69539
7.	Vinyl Foam Tape	15918 (by the foot)
8.	Blower Outlet Assembly	69554
9.	Adapter 6x6x6	69563
10.	Blower Assembly	14585
11.	Nut ¼-20	19065-21
12.	Filler Plate Assembly	69548
13.	Nut 10-24	19065-17
14.	Lockwasher ¼ Helical	19100-16

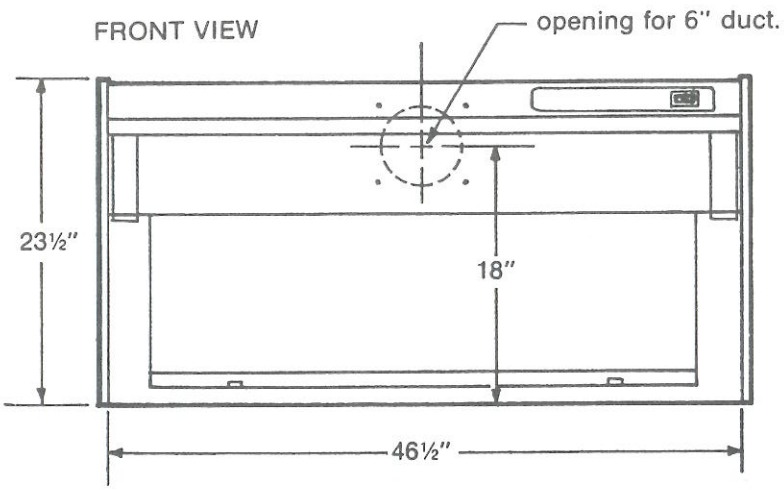
Models 69410-05

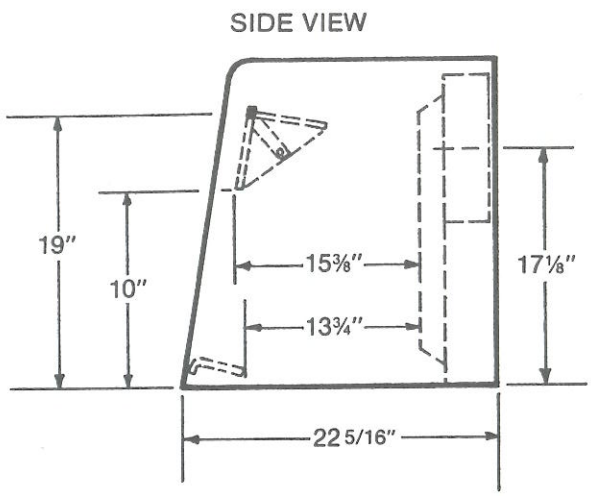
	Description	Part No.
1.	Screw #8 x ½	18949-08
2.	End Cover Assembly	69551
3.	Blower Housing Assembly	69540
4.	Screw ¼-20 x ½	18807-08
5.	Flat Washer #12	19115-12
6.	Blower Clamp	69539
7.	Vinyl Foam Tape	15918 (by the foot)
8.	Blower Outlet Assembly	69554
9.	Adapter 6x6x6	69563
10.	Blower Assembly	14591
11.	Nut ¼-20	19065-21
12.	Filler Plate Assembly	69548
13.	Nut 10-24	19065-17
14.	Lockwasher ¼ Helical	19100-16

SPECIFICATION DRAWING

Protector Work Station
Models 69410-03







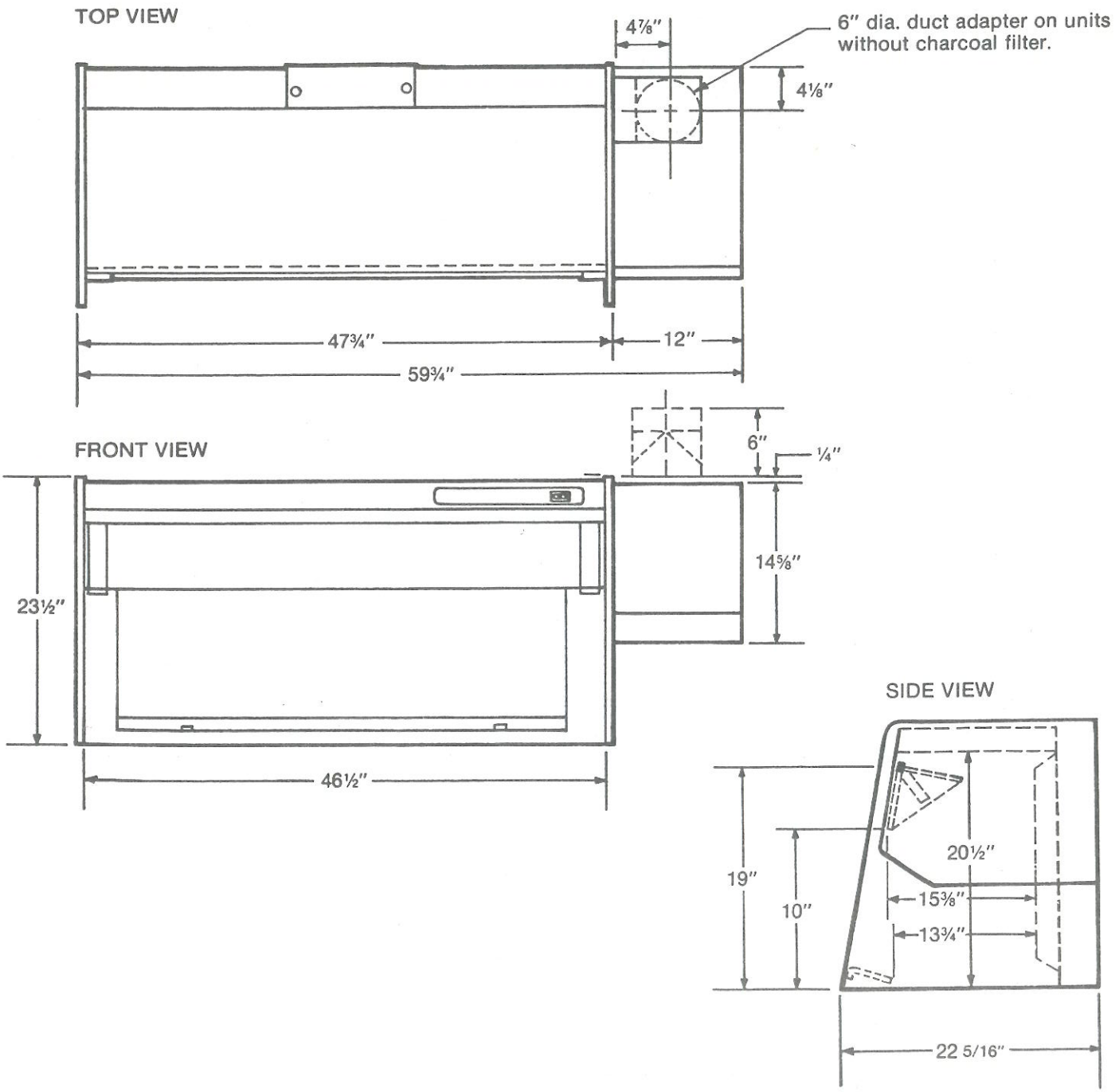
SPECIFICATION DRAWING

Protector Work Station

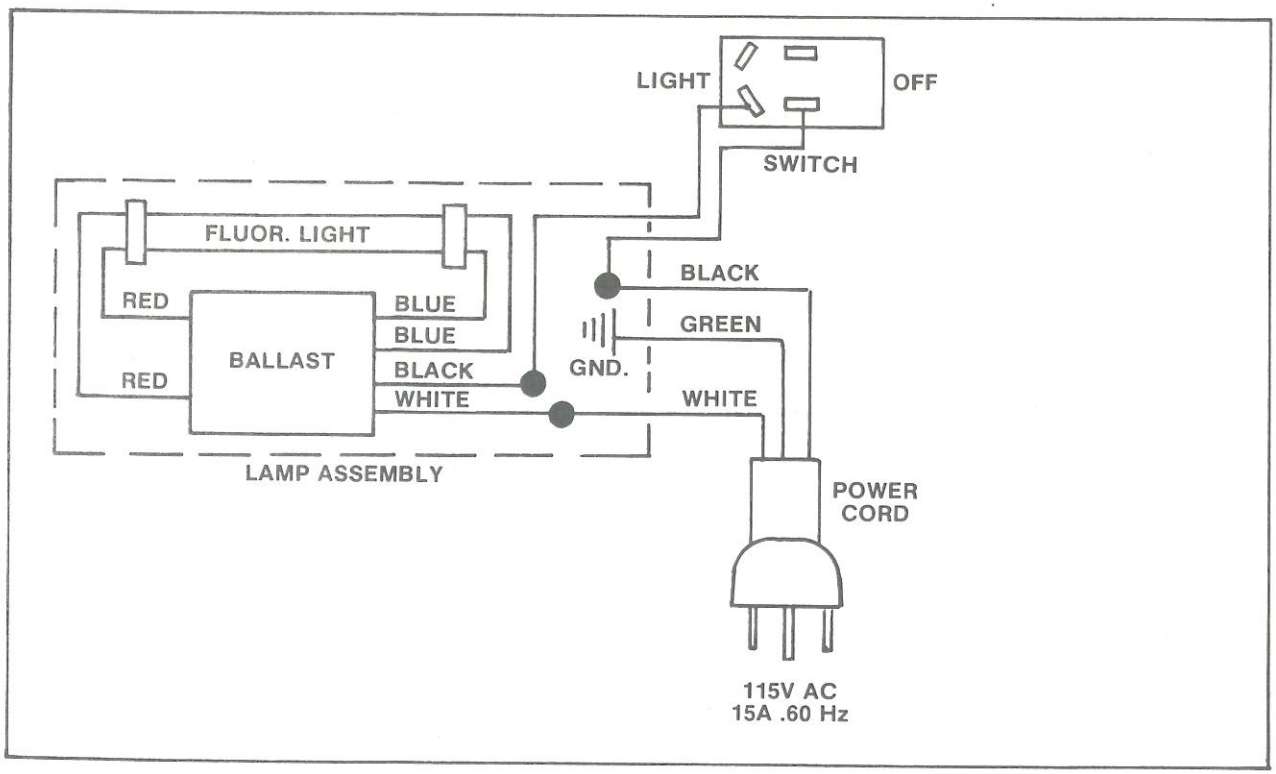
Models 69410-01

Models 69410-02

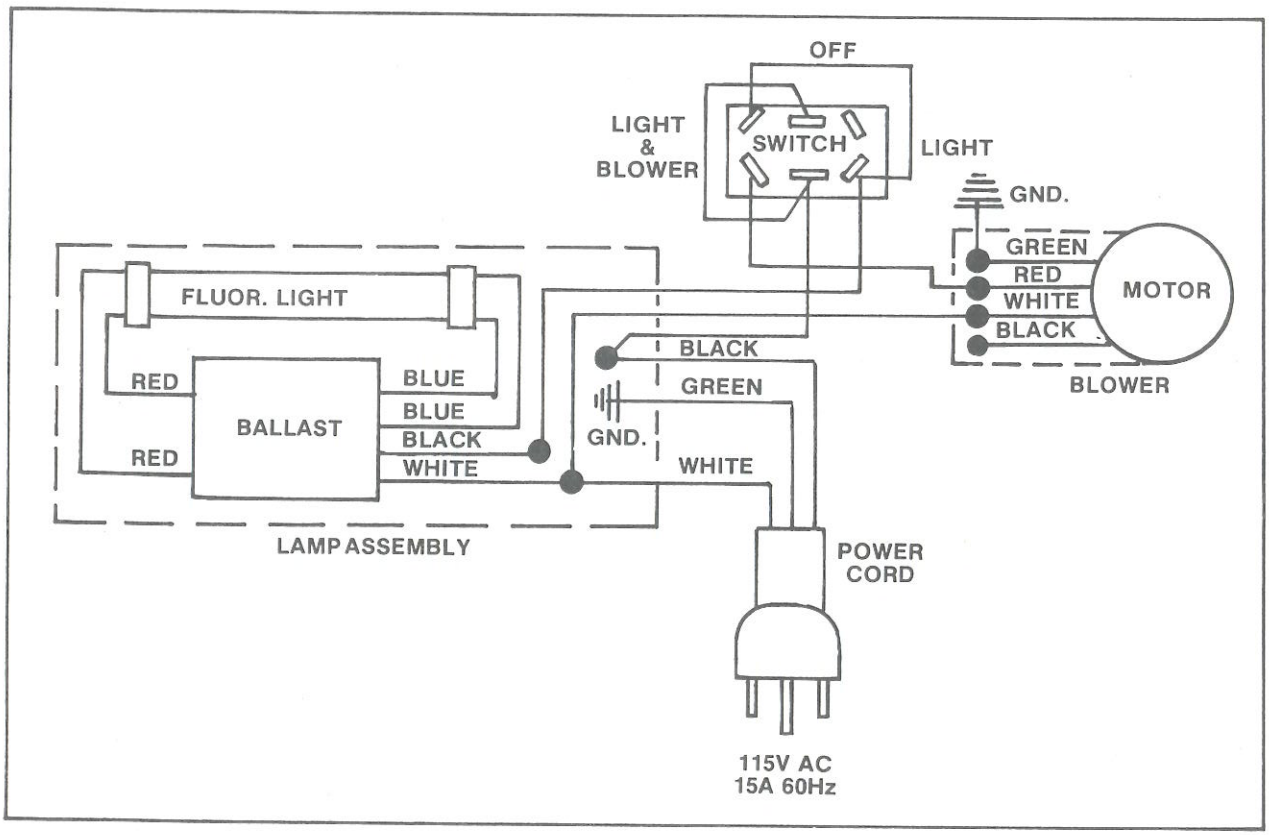
Models 69410-05



WIRING DIAGRAMS
Models 69410-03



Models 69410-01 69410-02



WIRING DIAGRAM
Models 69410-05