

Operation & Maintenance Manual

# **TYPHOON WX SERIES OF WET DUST COLLECTORS**





WX 5000



WX 3000



WX 6500

READ AND SAVE THESE INSTRUCTIONS

Visit our Website for more information on this product





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# SECTION 1 - SAFETY PRECAUTIONS OF FUME & DUST EXTRACTION/COLLECTION



READ BEFORE USE

DO

NOT

USF

This manual contains specific cautionary statements related to worker safety. To protect yourself and others, read this manual thoroughly and follow as directed before use. Not all hazards of fume & dust control are listed in this manual, and no hazards related to welding, cutting, grinding, painting, deburring or other applications are listed. Consult a qualified safety professional.



Do not use this equipment:

- To collect smoke, fumes, liquid vapors, or aggressive fumes such as acids.
- If the power cord has been damaged or ground (third prong) removed.
- Without the proper water level in the basin.

# 1.1 Symbols



## 1.2 Users Responsability

- Improper use can be hazardous.
- It is your responsibility to follow all applicable ANSI, OSHA, UL, CSA, National & Local Fire Codes, and other regulatory guidelines covering the safe use of equipment that extracts fumes, collects dusts, and exhausts filtered air either indoors or outdoors.
- Before use, inspect the unit for damage and verify it is working properly.
- Only qualified persons should install, operate, maintain, or repair this unit.
- Do not modify or repair the unit with parts or accessories not supplied by the manufacturer.
- Consult filter manufacturer's instructions for filter use and reuse, including instructions for cleaning.

## 1.3 Dust Collection Hazards

- Dusts from many metalwork, woodwork, food production, pharmaceutical, other material processing applications can be combustible.
- Combining dusts from of different materials can introduce additional hazards as chemical reactions can happen in the airstream or in the water basin. Consult a qualified person before mixing more than one base material in a wet dust collector.
- Do not use or install equipment where any potential for combustible fumes or dusts are present, until a qualified person has indicated it is safe to do so.
- Never use or install equipment where the potential for combustible fumes or dusts are present without a fire/explosion protection system.
- If you are unsure if the product you purchased is correct for your application, call DiversiTech at 1-800-361-3733.

# **SECTION 2 - SPECIFICATIONS**

# 2.1 Diagram & Description



WX 1200 16 gallon, 1200 CFM Wet Dust Collector



WX 3000 40 gallon, 3000 CFM Wet Dust Collector



WX 5000 80 gallon, 5000 CFM Wet Dust Collector



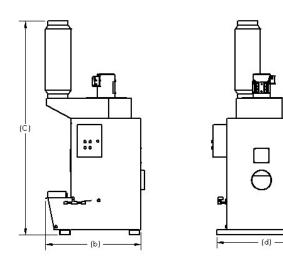
WX 6500 80 gallon, 6500 CFM Wet Dust Collector

	Water	r Nominal Tank Motor				Power			
Model	Fill System	Airflow (CFM)	Capacity (Gallons)	(H.P)	Phase (hz)	@230V (amps)	@460V (amps)	@575V (amps)	@5ft. (dB)
WX-1200	auto	1200	16	3.0	3P / 60Hz	9.6	4.8	3.9	74
WX-3000	auto	2000-3500	40	5.0	3P / 60Hz	15.2	7.6	6.1	78
WX-5000	auto	3000-5000	80	10.0	3P / 60Hz	28.0	14.0	11.0	78
WX-6500	auto	4000-6500	80	15.0	3P / 60Hz	34.0	16.9	14.0	80

1. For 1200, Airflow @ 2" external static pressure. 2. For WX-3000, WX-5000, WX-6500, Airflow @ 2.5" external static pressure.

## 2.3 Dimensions

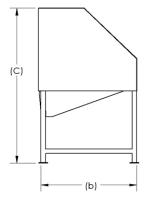
2.2 Specifications

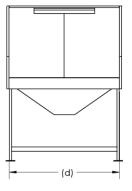


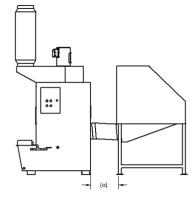
	Inlet Collar		Footprint		Wa	iter
Model	Diameter (in.)	Length [b]	Height [C]	Width [d]	Supply (in.)	Drain (in.)
WX-1200	6	34"	86"	32"	1/2" NPT	1 1/2" NPT
WX-3000	10	47"	109"	44"	1/2" NPT	1 1/2" NPT
WX-5000	16	61"	117"	57"	1/2" NPT	1 1/2" NPT
WX-6500	16	67"	129"	67"	1/2" NPT	1 1⁄2" NPT

1. Water Level is marked on each unit.

# 2.4 Dimensions with optional empty Downdraft Table







Collector	Table	Optimal		Footprint		Wa	ter	Water
Model	Model	Connection [a]	Length [b]	Height [C]	Width [d]	Supply (in.)	Drain (in.)	Level (in.)
WX-1200	MINI	15"	36"	36"	30"	1/2" NPT	1 1/2" NPT	±0.5"
WX-3000	3'x4	15"	48"	36"	42"	1/2" NPT	1 1/2" NPT	±0.5"
WX-5000	3'x6	20"	72"	36"	42"	1/2" NPT	1 1/2" NPT	±0.5"
WX-6500	3'x8	20"	96"	36"	42"	1/2" NPT	1 1/2" NPT	±0.5"

# **SECTION 3 - SETUP / INSTALLATION**

### 3.1 Introduction

The performance of every Diversitech scrubber depends on many factors. The purpose of this manual is to make you aware of these factors so you will obtain the utmost efficient and dependable performance from your Diversitech equipment.

Providing, care is exercised in installing this equipment, and it is given reasonable maintenance, you can be assured of trouble-free operation for years to come.

It is important that you study this manual prior to installing and operating the equipment to assure safe installation and operation.

## 3.2 Safety

The very nature of air handling equipment and accessories present a hazard to personnel during installation and maintenance. The following precautions should be observed prior to starting and maintaining the scrubber:



- 1. All system motors should be locked out. This is accomplished by padlocking the disconnect switch in the off position until installation or maintenance is complete.
- 2. The scrubber housing should be inspected for debris or any loose parts.
- 3. Installation should be complete with inlet and outlet accessories attached.
- 4. All guards should be in place and secured. Never remove or replace any guards unless the machine shutdown and locked out.
- 5. All dampers in duct system should be locked in open position.
- 6. Inspect ductwork for leakage of debris or fumes.
- 7. Follow good safety practices when installing or maintaining this equipment.

#### 3.3 Receiving and Inspection

Upon receipt of shipment, check first to see that all items on bill of lading and/or packing slip have been received. By careful inspection determine whether damage has occurred in transit. Any shortage or damage should be noted and a claim should be filed immediately.

#### 3.4 Handling and Storage

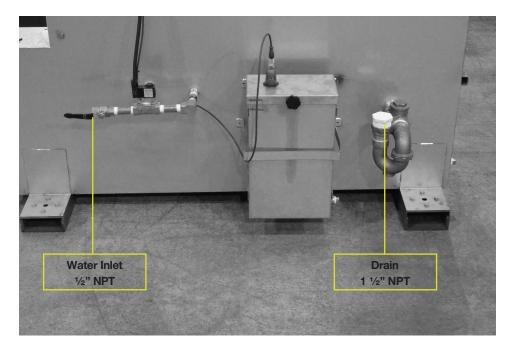
If installation of the scrubber is delayed and do not store the unit outdoors. If equipped with the strainer option, special attention is required to prevent freezing. Residual water may damage the pump if it freezes.

#### 3.5 Foundations

A rigid, level foundation is vitally essential for operation and good performance of a scrubber. A frequent error is to design a foundation for the weight of the scrubber only. Consideration should be given for weight of the scrubbing and water.

Water Connections

- Connect water feed as indicated
- Diversitech recommends that the overflow drain be connected to a suitable and approved collection/drainage. The overflow drain is provided in case the water monitoring system fails.



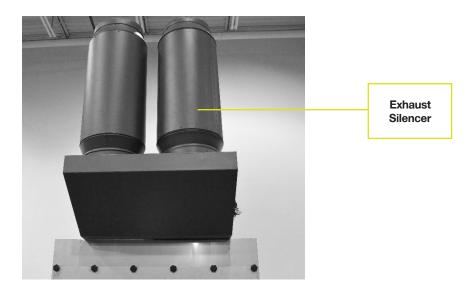
Backdraft Damper

- The scrubber is designed to accommodate an auxiliary vent fan that operates when the scrubber is not in operation. Its function is to vent the air and gases from the scrubber. The fan should exhaust outdoors. If the fan is to exhaust doors it is important to check the local regulations and test the exhaust air as required.
- Ensure that the backdraft damper is installed on the vent fan.



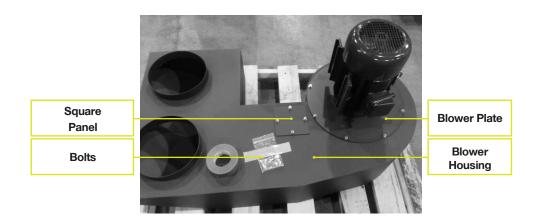
### Silencers

The scrubbers are all designed to be operated with exhaust silencers. The silencer(s) are shipped separately and should be installed on the exhaust collars of the blower housing using self-tapping screws.



### **Electrical Connections**

- Connect power as outlined in APPENDIX 1: Electrical Diagram [230/460/575v] 3-Phase Power.
- Ensure that motor rotation is clockwise when looking top-down from unit.
- For the WX-6500, the motor and the auxiliary vent fan are shipped separately from the main cabinet.
- Once reinstalled the electrical connection to the main control box must be made as per the provided wiring diagram instructions to install 15HP Blower (Lift truck required to hoist motor).



- 1. Unbolt and remove square panel, unbolt and remove blower plate.
- 2. Inside the blower housing, fasten 2 bolts attaching the scroll to the wet collector.
- 3. Using the hardware, fasten the cone to the scroll while aligning the cone in the center of the Blower Wheel.





4. Wire the motor to electrical panel using the existing wiring.

Duct loads can cause distortion with consequent damage to the scrubber. With this in mind, please observe the following:

- 1. Support ducts independently of scrubber.
- 2. When installing duct work consider:
- Duct diameter, length, and material type will affect performance;
- Use smooth bore ducting wherever possible as flexible ducts can have up to three times more airflow resistance;
- Inlet ducts should be full diameter, and changes in section or size should be gradual;
- 3. Consult Diversitech for proper duct layouts.

## 3.8 Pre-Start-Up Checklist

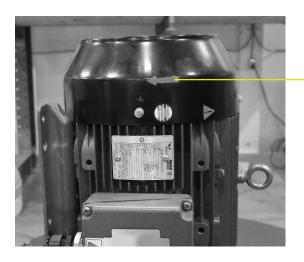
Prior to starting the system, the following should be inspected:

- 1. Fan and pump motor wired for correct voltage.
- 2. Correct fan rotation. Ensure that motor rotation is clockwise when looking top-down from unit.
- 3. All dampers locked in open position.
- 4. Ductwork clean and free of debris.
- 5. Ductwork sealed properly.
- 6. Plumbing connections leak tested.
- 7. Freshwater make-up set correctly.
- 8. Overflow and drain connected.
- 9. Mist eliminator filters installed properly.

## 3.9 System Start-Up and Operation

It is critical that the scrubber system be started and checked out prior to final duct hook ups.

- Before plugging unit in to an input power source, look at the manufacturer's label located on the exterior of the unit and ensure the source is correctly sized in terms of Voltage and Amperes.
- Prior to use in your application, turn the unit ON, and perform a function test. To do so:
- 1. Turn switch to ON position for a few seconds to check that the motor rotation is correct by looking down the back of the motor and checking that the motor fan turns in the direction of the arrow. Optionally a current measurement can be done to ensure that the motor is not drawing excessive current (a sign of reverse rotation).



Make sure the rotation matches the rotation stickers

#### 3.10 Maintenance Instructions

The scrubber should be checked weekly for the first couple of weeks until a comfort level is established. The nature of the contaminant being scrubbed and proper maintenance procedures will determine the frequency of inspection. It is important that the sludge be removed, and the mist eliminator media be properly maintained in order for the scrubber to achieve maximum efficiencies.

### 3.10.1 Strainer

Clean in-line strainers daily until a schedule can be established. Monitoring of the collected debris will aid in determining the frequency of required cleaning.

### 3.10.2 Pumps

Recirculation pumps, if properly maintained, seldom require maintenance. Should it be necessary to remove a pump, please obverse the following:

- 1. Turn off and lock power to the pump.
- 2. Disconnect pump wiring.
- 3. Shut off diaphragm valve on pump discharge. If scrubber is not equipped with shut off valves, drain pump prior to removing pump.
- 4. Remove bolts on pump mounting plate and pull pump.
- 5. After repairs or installation of new pump, remember to turn values to original position.

### 3.10.3 Mesh Pad Eliminators

Mesh pad mist eliminators fabricated with multiple filament diameters offer a greater degree of mist elimination on smaller mist particles. Mesh pad mist eliminators are standard and used in conjunction with a chevron eliminator, the mesh eliminator is supplied in a removable configuration. Due to the density of the mesh pad, the scrubber will operate under a higher negative pressure than normal.

#### 3.10.4 Mesh Pad Maintenance

Under normal operation with proper scrubber maintenance, the mesh eliminator requires little or no maintenance (see trouble shooting chart). If the mesh pad becomes plugged it should be replaced.

# **SECTION 4 - OPERATION**

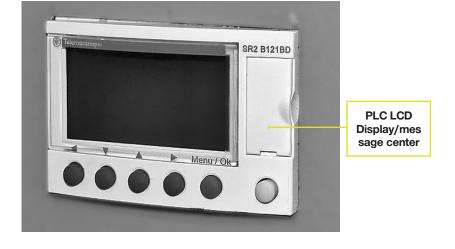
# 4.1 Operate Safely

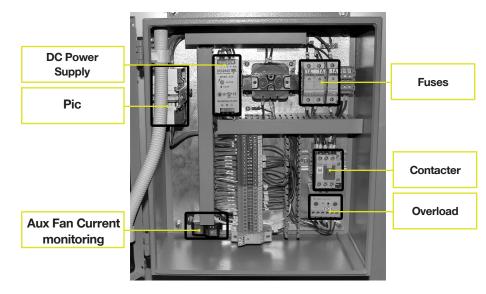


- Read and understand SECTION 1: Safety Precautions and SECTION 4: Operation before use
  Read and understand all Material Safety Data Sheets and Manufacturer's instructions of all
- process materials, consumables, and equipment used in conjunction with this equipment.Keep away from all mechanical moving parts including motor, gears, and other pinch points.
- Do not use product without first confirming if a Spark Arrestor is required and installed for the type of dust, or fumes you are extracting and/or collection. If you are unsure, call a Diversitech representative at 1-800-361-3733.

## 4.2 Controls







## 4.3 Principles of Operation

This product is designed to capture potentially combustible dust particulate from certain industrial applications using a wet filtration process. When operating, air and dust is drawn into the table, passes through installed ducts, into the Wet Dust Collector's filtration system, and then finally exhausted out the top discharge. The agitation of water creates a humid environment within the collector, trapping the hazardous dusts, which will settle in the bottom of the basin.

This product consists of five basic components:

- 1. A cabinet for housing all components
- 2. A motor blower assembly
- 3. Electrical assemblies
- 4. Collecting assemblies (filters pad and water)
- 5. Downdraft table (optional)

During the normal operation of the wet collector, shop air is drawn into the collector. As this air passes through the collector's water it removes some water in the form of humidity and over a period of a few hours this results in a drop of the collector water level. The WX-series of collectors rely on a sophisticated ultrasonic control system to continually monitor water levels and refill automatically the collector on-line. In addition, the controls support

- 1. High water alarm
- 2. Low water alarm
- 3. Blower shut down in case of alarms
- 4. Interface for Photohelic (Included with HEPA option)
- 5. Interface for temperature sensors (Included with HEPA option)
- 6. Interface for auxiliary vent fan
- 7. Current sensing/alarm for auxiliary vent fan
- 8. Master / Slave input for scrubber to run when dust producing equipment is "on" (may require additional hardware)
- 9. PLC LCD display showing water level and alarm conditions

## **Control System Explained**

As soon as the start button is pressed, the main motor will start if no alarm conditions are present and will run until an alarm occurs or the stop button is pressed. If connected, there is also a remote control input on the PLC that can trigger the Star/Stop command. Note, the controls at the front of the panel will have priority on the machine state for safety reason. (ex. The remote control has started the machine but, if the stop button is pressed, the machine will stop). Meanwhile, the machine will try to maintain the water level to a set water level while running and while stopped.

When the machine is stopped, an exhaust fan will start running.

## Water Level Monitoring

As soon as the machine is powered, the water level is monitored through an ultrasonic sensor. The machine is designed to operate at a level set on the interface by the factory. When the water level reached a certain difference with the set point, the water valve is opened and the machine begins to fill up. When the water level reaches the set point value, the valve is closed.

A low and high water level has been factory set and the alarms will activate when either of those levels are reached. As a result, the machine will shut down and won't restart as long as the alarm condition persists.

## Alarms

Any alarm condition will be indicated on the user interface and the buzzer on the panel will be heard. When one of these alarms is present, the machine will lock-down and will not allow to be started:

- Motor Overload: if the main motor overload is tripped. The alarm will remain until the situation is corrected and the over load is manually reset.
- High temperature: if the temperature in the filter units exceed the threshold. The alarm will remain until the situation is corrected.
- Pressure switch (optional): if the pressure in the unit exceed the threshold set on differential unit. The alarm will remain until the situation is corrected.
- Exhaust fan: if the exhaust fan is not detected as running within a certain amount of time once the machine is stopped. The alarm will remain until the situation is corrected.
- Low level: if the water level reaches the low level set point set from the interface for 5 seconds or more. The alarm will remain until the situation is corrected.
- High level: if the water level reaches the high level set point set from the interface for 5 seconds or more. The alarm will remain until the situation is corrected.

## Level Set Point:



CAUTION: This should only be done in consultation with an authorized Diversitech technician! The following steps have been done at the factory and should not need adjustment

#### Initial Set Point Adjustment if the PLC has been factory reset

#### At the initial star-up, the set point will be at 0.

To set the running water level, the machine has to be powered and "on". Once on, the button #1 can be pressed to enter the manual set point entry. Then, use the button #2 and #3 to modify the set point value. If no key is pressed within 5 seconds, the interface will go back to the main screen. The other way would be to fill the machine to the desired level (start between 7 to 7.5 inches of water) and then press the button #4 for 5 seconds to teach the set point.

#### The machine is ready to start.

Since the water level has to be higher while stopped, the running set point has to be set once the water has reached turbulent levels. To set the "Running Set Point" press button 4 for 5 seconds or until the display shows the current

level=running level. Note the refill sequence has been set to start when the current level is 4 below the running level for at least 30 seconds.

#### Level alarms:

To set the level upper limit, the button #2 can be pressed. Then, use the button #2 and #3 to modify the set point value. If no key is pressed within 5 seconds, the interface will go back to the main screen.

To set the level lower limit, the button #3 can be pressed. Then, use the button #2 and #3 to modify the set point value. If no key is pressed within 5 seconds, the interface will go back to the main screen.

Initial Sensor Setup

# **SECTION 5 - MAINTENANCE & TROUBLESHOOTING**

# 5.1 To Maintain this Product Safely



- Read and understand SECTION 1: Safety Precautions and SECTION 4: Operation before maintenance.
- Do not breathe the dust collected from product while changing/cleaning filters or performing maintenance on this product.



• Disconnect power before performing any maintenance on unit, including filter inspection. The input power to this unit is high voltage, and touching any live electrical parts can cause fatal shocks or severe burns. Do not touch live electrical parts.



• Keep away from all mechanical moving parts including motor, gears, and other pinch points while operating.



• Operating this unit causes some parts to heat to a point that will burn bare hands. Before maintenance allow parts to cool, or use proper tools and personal protection equipment during maintenance.

# **5.2 Tools Required**



EYE PROTECTION



RESPIRATOR



GLOVES



WASTE CONTAINER



SLUDGE VAC

### 5.3 Routine Maintenance Schedule

Whenever several inches of dust buildup inside the wet collector water tank, it is necessary to remove the material as soon as possible. Depending on application dust loading, The Wet Collector may needs to be maintained daily.

## **Cleaning Instructions:**

1. Open the knobs or latches on the two front panels of the wet dust collector



- 2. Inspect the mist eliminator filters inside the unit for holes or dust accumulation, replace the media if torn or dirty
- The filter frame must be replaced so that the cage side is facing upwards to prevent the media from being sucked out of the frame





• Inspect the HEPA after filters and replace if the filters are

saturated

- 3. Clean the inside of the unit completely from top to bottom, using wire brush or scraper and a pressure washer to remove all accumulated sludge and debris
  - Remove the inlet duct to clean the inside of the back of the collector and inspect the inlet ductwork for dust accumulation
- 4. Drain the dirty water using the optional WV-55 sludge-vacuum to separate the metal fines from the water, remove sludge on the bottom of the tank and skim the residual material floating on the water surface



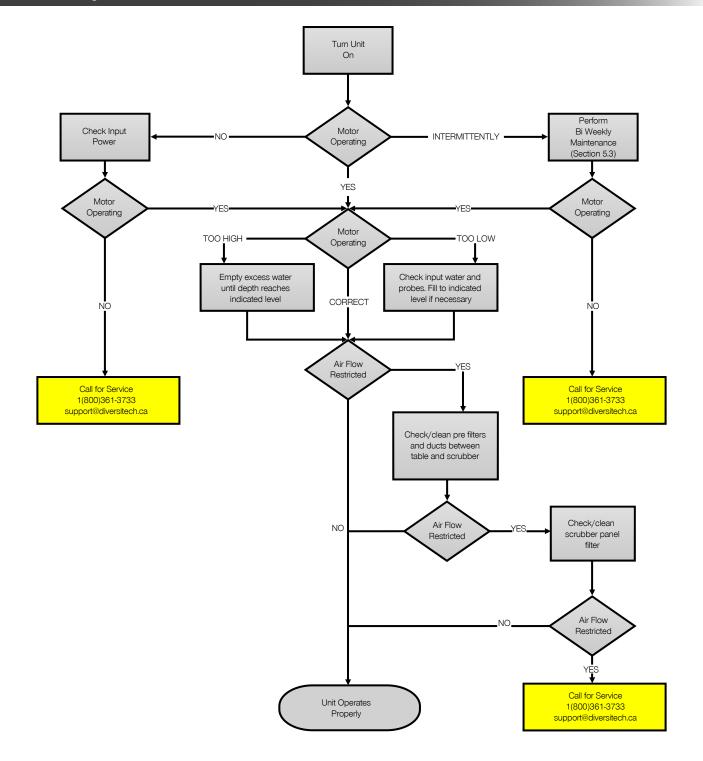
- All debris must be stored in a ventilated metal drum to prevent hydrogen gas buildup
- If the collector has the optional strainer system, remove the basket and dump the accumulated dust, clean out the basket and replace it.
- Dust needs to be disposed of according to local regulation



- 5. Open the water level control box to inspect the level probes or ultrasonic sensor and remove all accumulated particulate
- If the level probe is loose, tighten the terminal screw and ensure the probes are at the right level and touching each other. Ensure the probe gasket is cleaned of all residue
- If the level probes require maintenance use an abrasive sponge to remove all accumulated particulate



- Ensure the passage from the probe housing to the water basin is free and clear of debris
- Once the entire machine has been cleaned out, re-install the front doors, mist filters, and probe box assembly



# **APPENDIX 1A - ELECTRICAL DIAGRAM MANUAL-WATER LEVEL**

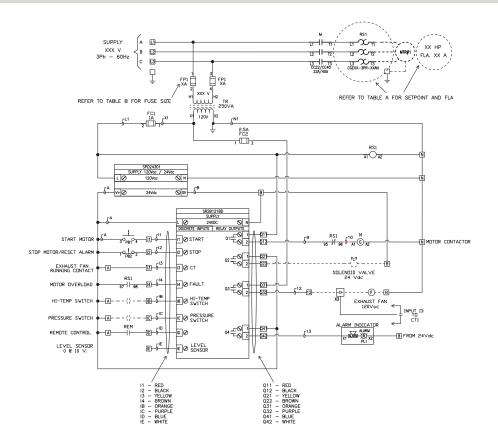
## [230/460/575V] 3-Phase Power

ELECTRIC

SHOCK

HAZARD

Disconnect power before performing any maintenance on unit, including filter inspection. The input power to this unit is high voltage, and touching any live electrical parts can cause fatal shocks or severe burns. Do not touch live electrical parts.



		MODEL AND SETP	OINT (FLA)		
\\ NE	3	5	7.5	10	15
208	CGE22-22A (11)	CGE22-22A (17.5)	CGE40-40A (25.3)*	CGE40-40A (32.2)*	XXXX
230	CGE22-22A (9.6)	CGE22-22A (15.2)	CGE22-22A (22)	CGE40-40A (28)*	XXXX
480	CGE22-5A (4.8)	CGE22-22A (7.6)	CGE22-22A (11)	CGE22-22A (14)	CGE22-22A (21)
600 CGE22-5A (3.9) CGE22-22A (6.1) CGE22-22A (9) CGE22-22A (11) CGE22-22A (17)					
*	* USE CONTACTOR CC40 WHEN USING CGE40 OVERLOAD				

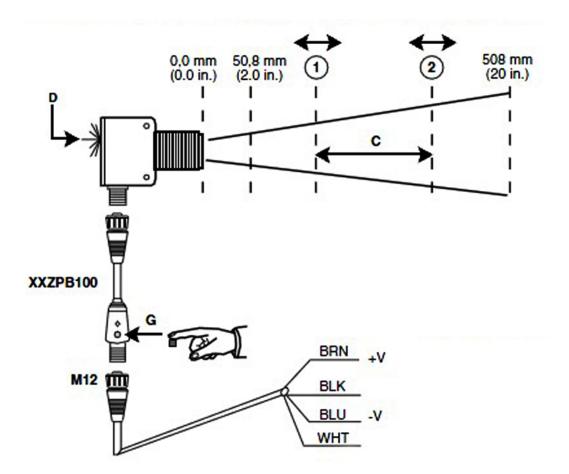
TABLE	B : FUSE SI	ZE		
7	TRANSFO	FP1 (T	YPE	FNQ-R
208			2A	
230	DL10742QE	1	1/2	A
480	DL10742QE		1A	
600			1A	

REMOTE CONTROL RELAY

```
20 5 REM REM A2 521 21
```

\*120 Vac RELAY FOR REMOTE CONTROL LEAVE UNWIRED IF UNUSED

# **APPENDIX 1B - SETTING THE SENSING WINDOW**



#### Setting the Sensing Window

Note: For manual setup use the external contact in place of button G.

- 1. Install accessory XXZPB100
- 2. Remove all objects from the sensor's field of detection
- 3. Align the sensor with the object to be detected
- 4. Push and hold the setup button (G) until the bicolor LED (D) rapidly flashes green
- 5. Releases the button. The bicolor LED continues to flash green
- 6. Within 30s, insert an object into position 1, then push and release the setup button. The bicolor LED flashes green, then turns steady amber

#### The device is set up properly if:

- The LED turns amber when an object is sensed in the window.
- The LED turns green when an is not sensed

To reset the sensor, repeat Step 4.

When setup is complete, disconnect power and remove accessory XXZPB100

Reconnect power to the sensor

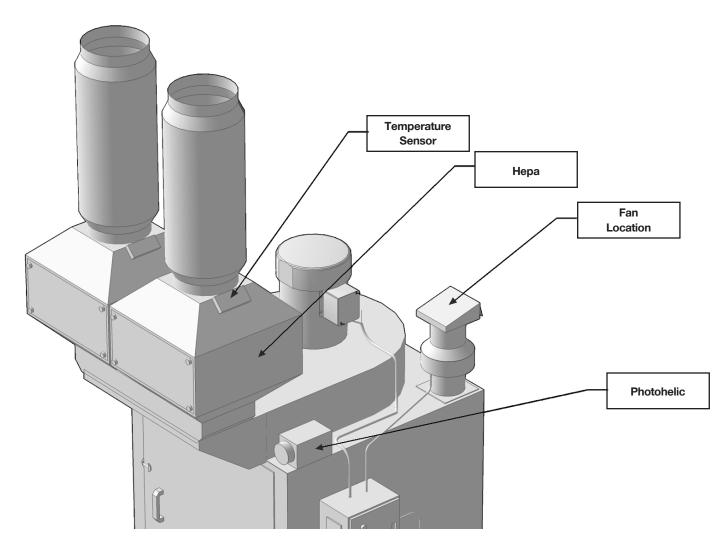
# **APPENDIX 2 - HEPA FILTER, TEMPERATURE SENSORS, & EXHAUST FAN OPERATION**

## Exhaust Fan

Exhaust fans are configured to operate the fan only once the main blower is "off". Once activated the exhaust fan pushes open a damper and exhaust any air from the collector. To ensure that the fan is safely operating, a current sensor determines if the fan motor is properly operating. Should the fan stop, an audible and visual alarm will be activated.

## **HEPA** Installation

HEPA installations follow NFPA guidelines, thus temperature sensors are installed on the exhaust side of the HEPA filter. These sensors are set at approximately 450 degrees Fahrenheit which represents the ignition temperature. In addition a photohelic meter is installed to monitor the differential pressure between the input of the filter and the output of the filter. Photohelic pressure settings are set at the factory and they represent the "when filter is new" pressure and the suggested replacement pressure for the HEPA.



# **APPENDIX 3 - EXPLODED VIEW & PARTS NUMBERS**

# **APPENDIX 4 - MAINTENANCE RECORD**

Diversitech Inc. authorizes this page to be photocopied or otherwise reproduced as needed for management of maintenance records.

MANUFACTURER:	DIVERSITECH INC.	MODEL N°	WET COLLECTOR	SERIAL N°	
SERVICE LOCATION:				CONTROL N°	

Date	Description of Service	Serviced By	Location	Comments

Only use manufacturer approved replacement parts on this unit.





# TERMS AND CONDITIONS TO SALES ORDERS

## 1. INTERPRETATION

- 1.1. All references to "we" herein mean Diversitech Equipment and Sales (1984) Ltd.
- 1.2. All references to "you" herein mean:
  - (a) the "Customer" referred to herein and in the Sales Order joining these presents (such Sales Order together with any amendments, supplements and additional agreements related thereto and all annexes and schedules in respect thereof, collectively the "**Sales Order**"); and
  - (b) any affiliates and any party related, whether directly or indirectly, to such "Customer".

## 2. LIMITED WARRANTY AND LIABILITY

- 2.1. All units and equipment sold by us to you (collectively "**Units**") pursuant to the Sales Order are warranted to be free from defects in material for a period of **2 years from the date of purchase** (the "**Warranty Period**").
- 2.2. We will repair or replace, at our discretion, any defective parts that fail during the Warranty Period, returned to the manufacturer's plant with freight prepaid. This warranty is limited to replacement parts ONLY, subject to on-site or in- house evaluation of defective materials and does not apply to any personal liability or property loss that occurs due to the use or installation of this equipment.
- 2.3. We expressly exclude all warranties whatsoever, other than those included in Section 2.1 hereof, express or implied, legal or conventional, including, without limitation, any and all warranties of quality, merchantability and fitness for a particular purpose.
- 2.4. To the extent that any Units are integrated with any products, equipment, units, connections and/or systems of a third-party ("**Third-Party Products**"), we hereby expressly exclude all of the following warranties, express or implied, namely:
  - (a) warranty against defects of any kind (latent or apparent), fitness for purpose, merchantability or functionality to the extent of any such Third-Party Products; and
  - (b) any warranty against any defects or problems of any kind, whether latent or apparent, in respect of Units or a Third-Party Product, caused or arising directly or indirectly as a result of the integration with or use of Units in connection with any Third-Party Product.
- 2.5. You hereby expressly waive and renounce to any and all claims against us relating to loss of profits, loss of business or goodwill, interruption of business and all indirect, special, incidental or consequential damages of any kind whether arising from or in connection with the Sales Order or from the use of Units, however caused, and whether in the nature of breach of obligations, breach of warranty, repudiation of contract, tort, negligence (save in the event of gross negligence or intentional fault) or otherwise. Accordingly, save in the event of gross negligence or intentional fault, we shall have no liability whatsoever towards you under this agreement for any losses or damages, direct or indirect, consequential, exemplary, incidental or otherwise, regardless of whether we received advanced notice or were advised of the possibility of such claim, loss or damage.
- 2.6. You are solely responsible for determining if Units fit your particular purpose and are suitable for your designated process, application, fitment, tooling, set-up and uses(s).

## 3. FREIGHT CLAIMS

3.1. Shipments must be inspected by you upon arrival. All Units are sold ex-plant. Therefore, it is the receiver's responsibility to file any freight claims with the carrier for obvious or concealed damages. Damaged shipments must be refused at the time of receipt.

## 4. RETURN MATERIAL POLICY

4.1. Prior to the return of material, for whatever reason, a return merchandise authorization number ("RMA#") is required from our customer service department. This procedure is necessary for proper control and handling of returned materials. Call 1-800-361-3733 or email support@diversitech.ca to obtain a RMA #. All material must be returned prepaid. Credit will be given for returns for warranty repair or replacement. Freight collect shipments will not be accepted. It is the shipper's responsibility to ensure that material being returned to us is adequately packaged for shipment in order to prevent damages.

## 5. FEES AND CANCELLATION CHARGES

- 5.1. You will be responsible for any additional charges and fees not expressly included in the Sales Order, including, without limitation, any fees or charges relating to installation, service calls, consulting, installation, customization, "right-sizing", engineering, maintenance and/or repair. For greater certainty, unless expressly provided in the Sales Order, we do not provide you with any form of service with respect to Units, including, without limitation, installation, repair and maintenance services.
- 5.2. In the event that you:
  - (a) cancel the Sales Order at any time whatsoever, including, without limitation, prior to shipment;
  - (b) refuse to honour the Sales Order; or
  - (c) fail to take possession of any Units for any reason whatsoever,

you will be responsible for reimbursement to us of any and all costs, expenses and charges we have incurred to date.

- 5.3. In the event that:
  - (a) the Sales Order is for a customized product, including, without limitation, any custom engineered product; and
  - (b) an event set forth in Section 5.2 hereof occurs,

you will be responsible for payment of the entire amount of the Sales Order in addition to the reimbursement set forth in Section 5.2 hereof.

## 6. JURISDICTION AND ATTORNMENT

- 6.1. The interpretation, validity and enforcement of these presents and the Sales Order shall be subject to and governed by the laws of the Province of Quebec and the laws of Canada applicable therein.
- 6.2. The parties hereto expressly submit, attorn and consent to the exclusive jurisdiction of the appropriate Court for the District of Montreal, Province of Quebec, with respect to any controversy arising out of or relating to these presents and the Sales Order, or any supplement hereto or to any transactions in connection therewith. To the extent permitted by applicable law, you irrevocably waive any objection (including any claim of inconvenient forum) that you may now or hereafter have to the venue of any legal proceeding arising out of or relating to these presents and the Sales Order in such courts.

## 7. GENERAL

- 7.1. If any provision of these presents or the Sales Order shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall in no way be affected or impaired thereby.
- 7.2. These presents and the Sales Order shall be binding upon and inure to the benefit of the parties' respective successors and assigns.
- 7.3. The parties hereto acknowledge that they have requested and are satisfied that the foregoing as well as the Sales Order and all notices, actions and legal proceedings be drawn up in the English language. / Les parties à cette convention reconnaissent qu'elles ont exigé que ce qui précède ainsi que le « Sales Order » et tous avis, actions ou procédures légales soient rédigés et exécutés en anglais et s'en déclarent satisfaites.

For full product support, visit our website; http://bit.ly/33LgwtU



Scan above on mobile



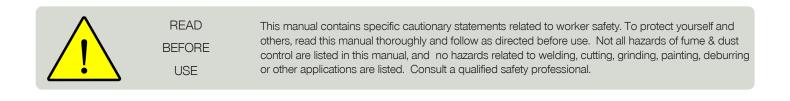
Part of Absolent Air Care Group

1200 55<sup>th</sup> Avenue Montreal, Quebec H8T 3J8 Email: info@diversitech.ca



# WARNING!

# **TYPHOON WX SERIES - WATER PUMP MOTOR**

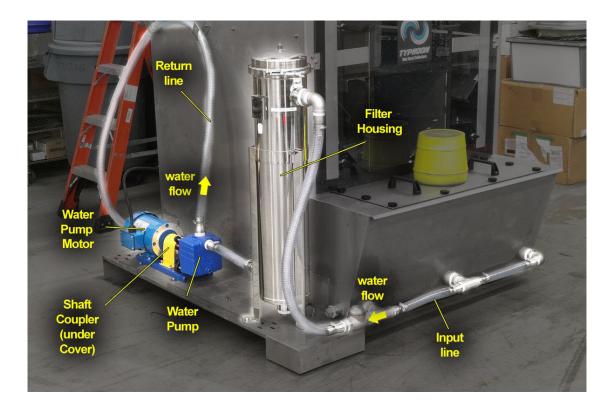


## 1. Safety

The drive motor on the filtration system must be run **CLOCKWISE** only.

**SEVERE DAMAGE** will occur to the water pump if the water pump motor is wired incorrectly, even one time.

# 2. Overview of the filtration system

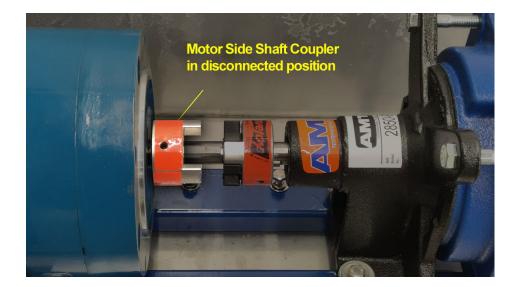




2.1 Remove the yellow shaft cover

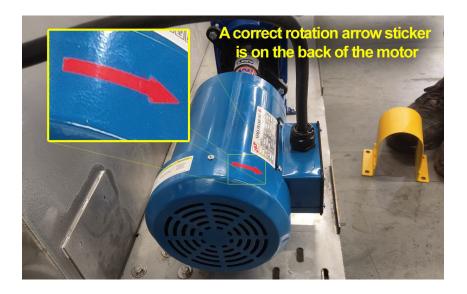


2.2 Verify the motor side shaft couple is disconnected

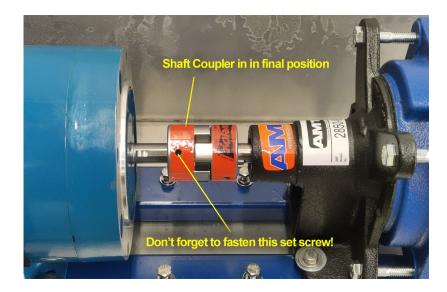




2.3 Wire & power on the pump motor to verify the rotation is correct



## 2.4 Verify clockwise direction and re-attach shaft coupler



Once the water pump motor is verified to be running in a clockwise motion (same as the arrow indicator), the shaft coupler can be re-attached, and the set screw fastened to secure it in place.



2.5 The last step is to refasten the shaft cover

