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Trademark Information:
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Section 1
How to Use This Manual

Safety Considerations:

This chapter includes important information that must be read and understood by all persons installing, using, or maintaining this equipment. While this manual is designed to aid personnel in the correct and safe installation, operation, and maintenance of the systems described. Personnel must consider all actions and procedures for potential hazards or conditions that may not have been anticipated in the written procedures. If a procedure cannot be performed safely, it must not be performed until appropriate actions can be taken to ensure the safety of equipment and personnel. The procedures in this manual are not designed to replace or supersede required or common sense safety practices. All safety warnings listed in any documents applicable to equipment and parts used in or with the system described in this manual must be read and heeded before commencing work on any part of the system.

NOTE: Refer to all Hazardous Area Certificates for any Special Conditions of Use. If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule of the certificate.

NOTE: Review all material and safety information in this manual and install in accordance with this document and all other applicable Hazardous Area Standards.

WARNING: Failure to follow appropriate safety procedures or inappropriate use of the equipment described in this manual can lead to injury of personnel or equipment damage.

WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.
The following symbols are used throughout this manual to alert users to potential hazards or important information. *Failure to heed the warnings and cautions listed herein can lead to injury and equipment damage.*

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>WARNING:</td>
<td>Consists of conditions, practices or procedures that must be observed to prevent personal injury and / or equipment damage.</td>
</tr>
<tr>
<td>⚠️</td>
<td>CAUTION:</td>
<td>Risk of electric shock or high temperature parts may result in injury if proper precautions are not taken.</td>
</tr>
<tr>
<td>🎶</td>
<td>NOTE:</td>
<td>Emphasizes important or essential information.</td>
</tr>
</tbody>
</table>

**Locating Information:**

*NOTE: In the interest of completeness, manuals and drawings included with the system may provide information pertaining to options not included with your equipment. Information in application notes supersedes general information in these documents. Information can be located in this manual using any of the following aids.*

1. Table of Contents
2. Getting Help
General Safety and Operating Information:

This section contains general safety and operating information applicable to equipment installed within hazardous locations. This information must be understood by all persons installing, using, or maintaining the electrical equipment. This information is designed to aid personnel in safe installation, operation, and maintenance of the Vortex Cabinet Cooler Systems. It is not designed to replace or limit appropriate safety measures applicable to work performed by personnel. Any additional safety and operating measures that are required must be determined by and followed by personnel performing work on the electrical equipment.

**WARNING:** Deviation from the specified instruction or procedure steps can result in injury to personnel, equipment malfunction and/or equipment damage.

**WARNING:** Return unit to factory for any repairs or replacement of parts, customer not permitted. This will void all warranties and hazardous area certification(s).

General Precautions:

Protective eyewear *(glasses with side shields or goggles as appropriate)* must be worn when servicing. Hot components should be allowed to cool before servicing if possible. Other appropriate equipment or clothing must be used as required by the type of work performed. All applicable regulations and procedures must be followed for the work performed. **Before** beginning any work on the equipment, carefully consider all the potential hazards and ensure that appropriate measures are taken to prevent injury to personnel or equipment damage.

**CAUTION:** Avoid direct contact with compressed air and do not direct compressed air at any person.

**CAUTION:** Applicable permits must be obtained and appropriate precautions must be taken to prevent possible injury to personnel or equipment damage when installing or maintaining this equipment.
**Electrical Power:**

Vortex Cabinet Cooler Systems offered by Purge Solutions, Inc. are all pneumatic and as such do not require any electrical power for operation. However, appropriate modifications have been made to the Vortex Cabinet Cooler Systems to prevent sparks that may ignite combustible materials that may be present in the Vortex Cabinet Cooler System enclosure environment, which could come from the electrical equipment mounted inside the Vortex Cabinet Cooler System enclosure.

**System Location:**

The Vortex Cabinet Cooler System must not be installed in an area classification for which it is not rated and must be protected from temperature extremes and potentially high vibration. Do not install where compressed air being exhausted will be directed at personnel passing enclosure Vortex Cabinet Cooler System is mounted.
Section 2
Specifications

<table>
<thead>
<tr>
<th>Certifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built to be Certified for Installation and Use in Gas and Dust Hazardous Areas</td>
</tr>
<tr>
<td>Class I, Division 1 or 2, Class II, Division 1 or 2 and Class III</td>
</tr>
<tr>
<td>ATEX and IECEx Zone 1 or 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental &amp; Utility Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
</tr>
<tr>
<td>Used and Mounted</td>
</tr>
<tr>
<td>Ingress Protection</td>
</tr>
<tr>
<td>Optimal Compressed Air Pressure</td>
</tr>
<tr>
<td>Maximum Compressed Air Pressure</td>
</tr>
<tr>
<td>Maximum Compressed Air Line</td>
</tr>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>Water and oil-free, -40°F (-40°C)</td>
</tr>
<tr>
<td>dew point, particles ≤ 5µ, ISA grade hydrocarbon free</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermostat in Thermostat Vortex Cabinet Coolers are mechanical, which maintains temperatures in enclosure between 80°F to 90°F (27°C to 32°C)</td>
</tr>
<tr>
<td>Supplied with check valve, cold air muffler and air ducting kit</td>
</tr>
<tr>
<td>No electrical wiring required</td>
</tr>
<tr>
<td>Maintains above atmospheric pressure in enclosure, which can be used as purge gas supply for purge / pressurized applications</td>
</tr>
</tbody>
</table>
### Continuous Operation Vortex Cabinet Cooler System *(Without Thermostat Control)* Model Number Matrix

<table>
<thead>
<tr>
<th>Cooling Capacity</th>
<th>Air Consumption @ 100 psig (6.9 bar)</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 Btu/hr (264 W)</td>
<td>15 SCFM (425 LPM)</td>
<td>PSO-CO0900</td>
</tr>
<tr>
<td>1500 Btu/hr (440 W)</td>
<td>25 SCFM (708 LPM)</td>
<td>PSO-CO1500</td>
</tr>
<tr>
<td>2500 Btu/hr (732 W)</td>
<td>35 SCFM (991 LPM)</td>
<td>PSO-CO2500</td>
</tr>
<tr>
<td>5000 Btu/hr (1465 W)</td>
<td>70 SCFM (1981 LPM)</td>
<td>PSO-CO5000</td>
</tr>
</tbody>
</table>

### Thermostat Controlled Vortex Cabinet Cooler System Model Number Matrix

<table>
<thead>
<tr>
<th>Cooling Capacity</th>
<th>Air Consumption @ 100 psig (6.9 bar)</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 Btu/hr (264 W)</td>
<td>15 SCFM (425 LPM)</td>
<td>PSO-TC0900</td>
</tr>
<tr>
<td>1500 Btu/hr (440 W)</td>
<td>25 SCFM (708 LPM)</td>
<td>PSO-TC1500</td>
</tr>
<tr>
<td>2500 Btu/hr (732 W)</td>
<td>35 SCFM (991 LPM)</td>
<td>PSO-TC2500</td>
</tr>
<tr>
<td>5000 Btu/hr (1465 W)</td>
<td>70 SCFM (1981 LPM)</td>
<td>PSO-TC5000</td>
</tr>
</tbody>
</table>
Calculate total compressed air consumption in SCFM (SLPM)

Determine required length of compressed air line for connecting to main supply

Locate pipe length in far left column of table below

Locate pipe size at top column of table below

<table>
<thead>
<tr>
<th>Pipe Length in Feet</th>
<th>Pipe Size in Schedule 40</th>
<th>Maximum Airflow SCFM through pipe at 5 psig Pressure Drop @ 100 psig &amp; 70°F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/4</td>
<td>3/8</td>
</tr>
<tr>
<td>10</td>
<td>29</td>
<td>65</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>46</td>
</tr>
<tr>
<td>30</td>
<td>17</td>
<td>37</td>
</tr>
<tr>
<td>40</td>
<td>15</td>
<td>32</td>
</tr>
<tr>
<td>50</td>
<td>13</td>
<td>29</td>
</tr>
<tr>
<td>60</td>
<td>12</td>
<td>26</td>
</tr>
<tr>
<td>70</td>
<td>11</td>
<td>25</td>
</tr>
<tr>
<td>80</td>
<td>10</td>
<td>23</td>
</tr>
<tr>
<td>90</td>
<td>10</td>
<td>22</td>
</tr>
<tr>
<td>100</td>
<td>9</td>
<td>21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe Length in Meters</th>
<th>Pipe Size in Schedule 40</th>
<th>Maximum Airflow SCFM through pipe at 5 psig Pressure Drop @ 6.9 bar &amp; 21°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>821</td>
<td>1840</td>
</tr>
<tr>
<td>6</td>
<td>594</td>
<td>1302</td>
</tr>
<tr>
<td>9</td>
<td>481</td>
<td>1047</td>
</tr>
<tr>
<td>12</td>
<td>425</td>
<td>906</td>
</tr>
<tr>
<td>15</td>
<td>368</td>
<td>821</td>
</tr>
<tr>
<td>18</td>
<td>340</td>
<td>736</td>
</tr>
<tr>
<td>21</td>
<td>311</td>
<td>708</td>
</tr>
<tr>
<td>24</td>
<td>283</td>
<td>651</td>
</tr>
<tr>
<td>27</td>
<td>269</td>
<td>623</td>
</tr>
<tr>
<td>31</td>
<td>255</td>
<td>594</td>
</tr>
</tbody>
</table>

Hose Maximum Airflow: 1/2 inch I.D Hose = 3/8 inch Pipe

Hose Maximum Airflow: 3/4 inch I.D Hose = 1/2 inch Pipe
Section 3

Introduction

A Vortex Cabinet Cooler System is designed to use dry clean compressed air, refer to Compressed Air Supply Quality, page 6 under Environmental and Utility Conditions, to cool industrial enclosures without the use of refrigerants. A Vortex tube mounted on the outside of the enclosure lowers the temperature and pressure of the compressed air supplied into the enclosure.

How it works is the Vortex tube cylindrical shape causes the input compressed air to rotate and as it is forced down the inner walls of the Vortex tube. The faster moving portion of the air exits as hot air exhaust located on the outside of the enclosure. The remaining slower moving air exits through the cold air-port into the enclosure.
Section 4
Installation

WARNING: Before attempting to install any Vortex Cabinet Cooler System; review all the material and all safety information in this manual and all other applicable documents.

WARNING: Applicable permits must be obtained and appropriate precautions must be taken to prevent possible injury to personnel or equipment damage when installing any Vortex Cabinet Cooler System.

NOTE: Refer to all Hazardous Area Certificates for any Special Conditions of Use. If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule of the certificate.

NOTE: Review all material and safety information in this manual and install in accordance with this document and all other applicable Hazardous Area Standards.

NOTE: Purge Solutions, Inc. is NOT responsible for any misuse or improper installation of product, assumes no liability for special or consequential damages caused by use or misuse or improper installation of its products sold and assumes no liability for injury from use or misuse or improper installation of its products or attached products.

WARNING: Failure to heed the following information may lead to injury of personnel or equipment damage.

NOTE: There are special modifications and sizing requirements to be made before Vortex Cabinet Coolers are able to be installed and used in a hazardous area.
Installation:

Review all of the material in this manual prior to installing any Vortex Cabinet Cooler System. If you have any questions, please contact your local Purge Solutions, Inc. representative or the factory (Refer to Getting Help, page 30). To maintain the proper ingress protection; all Vortex Cabinet Cooler Systems shall be installed in a vertical orientation on a flat horizontal surface at the top of the enclosure.

Exhaust Vents supplied with Vortex Cabinet Coolers must also be installed in a vertical position; depending on Side or Top mount Exhaust Vent, either on a horizontal flat surface on top of enclosure or vertical flat surface on the side or back of the enclosure.

The following instructions are for installation of Vortex Cabinet Cooler Systems not in combination with Purge Solutions, Inc. Purge / Pressurization Systems. For help selecting the proper Vortex Cabinet Cooler System and Purge Solutions, Inc. Purge / Pressurization System combination, please contact your local Purge Solutions, Inc. representative or the factory (Refer to Getting Help, page 30).

Step 1:
Make sure the area surrounding the enclosure that the Vortex Cabinet Cooler System will be installed is known to be non-hazardous.

Step 2:
Make sure all power is removed from the electrical equipment located in the enclosure that the Vortex Cabinet Cooler System will be installed.

Step 3:
Choose a mounting location for the Vortex Cabinet Cooler System on the enclosure in a location for proper hot air exhausting from Vortex Cabinet Cooler and exhausting from inside enclosure.

Step 4:
Drill or punch one each 1.94 (49.0) diameter hole “1-1/2 knockout size” for model numbers PSO-CO0900, PSO-CO1500, PSO-CO2500, PSO-TC0900, PSO-TC-1500 and PSO-TC2500. Drill or punch two each 1.94 (49.0) diameter holes “1-1/2 knockout size” for model numbers PSO-CO5000 and PSO-TC5000. Refer to drawings in Section 5 for center to center distance of two holes.

Step 5:
Insert Vortex Cabinet Cooler into hole(s) and secure with locknut provided.
Step 6:  
Attach the check valve(s) to the outlet of the Vortex Cabinet Cooler.

Step 7:  
If needed attached the cold air muffler(s) to the outlet of the check valve(s).

Step 8:  
If needed perforate the ducting tube with several 0.13 (3.3) diameter holes and secure to interior of enclosure.

Step 9:  
Attach the ducting tubing to the cold air muffler(s).

Step 10:  
Connect compressed air supply to the Vortex Cabinet Cooler.

Step 11:  
Drill or punch a 0.57 (14.5) diameter hole for the Small Back-Up Vent, a 1.31 (33.3) diameter hole for the Medium Back-Up Vent and a 2.38 (60.5) diameter hole for the Large Back-Up Vent.

Step 12:  
Insert Back-Up Vent into hole and secure with locknut provided.

Step 13:  
Vortex Cabinet Cooler System is now ready to use.
Section 5

Drawings

Page 13: Model PSO-CO0900 = Continuous Operation 900 BTU per Hour Vortex Cabinet Cooler System
Page 14: Model PSO-CO1500 = Continuous Operation 1500 BTU per Hour Vortex Cabinet Cooler System
Page 15: Model PSO-CO2500 = Continuous Operation 2500 BTU per Hour Vortex Cabinet Cooler System
Page 16: Model PSO-CO5000 = Continuous Operation 5000 BTU per Hour Vortex Cabinet Cooler System
Page 17: Model PSO-TC0900 = Thermostat Controlled 900 BTU per Hour Vortex Cabinet Cooler System
Page 18: Model PSO-TC1500 = Thermostat Controlled 1500 BTU per Hour Vortex Cabinet Cooler System
Page 19: Model PSO-TC2500 = Thermostat Controlled 2500 BTU per Hour Vortex Cabinet Cooler System
Page 20: Model PSO-TC5000 = Thermostat Controlled 5000 BTU per Hour Vortex Cabinet Cooler System
Page 21: Model PSO-SBUV-S = Small Side Mount Back-Up Vent
Page 22: Model PSO-SBUV-T = Small Top Mount Back-Up Vent
Page 23: Model PSO-MBUV-S = Medium Side Mount Back-Up Vent
Page 24: Model PSO-MBUV-T = Medium Top Mount Back-Up Vent
Page 25: Model PSO-LBUV-S = Large Side Mount Back-Up Vent
Page 26: Model PSO-LBUV-T = Large Top Mount Back-Up Vent
Page 27: Check Valve
Page 28: Cold Air Muffler
NOTES:

1. Modify Vortex Cabinet Cooler for hazardous area installation.
2. Small Enclosure Exhaust Vent and use for hazardous area installation.
3. Compressor air supply to Vortex with required spark arrestor.
4. Check valve.
5. Cabinet cooler = 1/4 FPT.
6. Vortex Cabinet cooler cold air duct tubing into enclosure.
7. Vortex Cabinet cooler cold air exhausted into enclosure.
8. Required hole size for Vortex.
9. Required hole size for exhaust vent.

Cabinet cooler = 1.940 (9.900)

NOTE: WITH SPARK ARRESTER = 0.570 (1.450)
NOTES:

1. MODIFIED VORTEX CABINET COOLER FOR HAZARDOUS AREA INSTALLATION
2. MEDIUM ENCLOSURE EXHAUST VENT AND USE
3. COMPRESSOR AIR SUPPLY TO VORTEX WITH REQUIRED SPARK ARRESTOR
4. CHECK VALVE
5. COLD AIR MUFFLER • OPTION TO USE
6. VORTEX CABINET COOLER COLD AIR DUCT TUBING INTO ENCLOSURE
7. VORTEX CABINET COOLER COLD AIR EXHAUSTED FROM ENCLOSURE
8. REQUIRE VORTEX CABINET COOLER
9. REQUIRE EXHAUST VENT WITH SPARK ARRESTOR HOLE SIZE = 1.140 (3.900)

ARRESTOR HOLE SIZE = 1.310 (3.300)
NOTES:

1. Modified Vortext Cabinet Cooler

2. Medium Enclosure Exhaust Vent

3. Compressor Air Supply to Vortext

4. Check Valve

5. Cold Air Muffler x Option to Use

6. Vortex Cabinet Cooler Cold Air

7. Vortex Cabinet Cooler Enclosure

8. Exhaust Ducting from Enclosure

9. Required Exhaust Vent with Spark Arrestor

10. Cabinet Cooler = 1/4 NPT

ARRESTER HOLE SIZE = 1.310 (33.30)

HOLE SIZE = 1.400 (39.00)
NOTES:

1. EACH MODIFIED VORTEX CABINET
2. 0.00 (60.8') TYP.
3. LARGE ENCLOSURE EXHAUST VENT
4. INSTALLATION AND USE.
5. COOLERS FOR HAZARDOUS AREA
6. EACH CHECK VALVES
7. VORTEX CABINET COLD AIR COOLER DUCT TURBINE INTO ENCLOSURE
8. EACH REQUIRED VORTEX CABINET EXHAUSTED FROM ENCLOSURE
9. REQUIRED EXHAUST VENT WITH SPARK ARRESTER HOLE SIZE = 2.380 (60.5')
10. COOLER HOLE SIZE = 1.940 (49.30')
NOTES:

1. Modified Vortex Cabinet Cooler
2. Small Enclosure Exhaust Vent
3. Compressed Air Supply To Vortex With Required Spark Arrestor
4. Check Valve
5. Cold Air Muffler Option To Use.
6. Vortex Cabinet Cooler Cold Air
7. Vortex Cabinet Cooler Cold Air Exhausted From Enclosure Air Duct Tubing Into Enclosure.
8. Required Hole Size For Vortext Cabinet Cooler = 1.400 (1.900)
9. Required Hole Size For Exhaust Vent With Spark Arrestor = 0.570 (1.450)
10. Hazardous Area Instillation With Mechanical Thermostat
NOTES:

1. Modified Vortext Cabinet Cooler
2. Medium Enclosure Exhaust Vent and Use
3. Compressed Air Supply to Vortext With Required Spark Arrestor
4. Check Valve
5. Cold Air Muffler Option To Use
6. Vortext Cabinet Cooler Cold Air
7. Vortext Cabinet Cooler Enclosure Dust T milk ing Int. Enclosure Air
8. Required Hole Size For Vortext
9. Required Hole Size For Exhaust Vent Cabinet Cooler = 1.310 (49.00)
WITH SPARK ARRESTER = 1.310 (33.30)
NOTES:

1. MODIFIED VORTEX CABINET COOLER
2. MEDIUM ENCLOSURE EXHAUST VENT AND USE
3. COMPRESSED AIR SUPPLY TO VORTEX WITH REQUIRED SPARK ARRESTER
4. CHECK VALVE
5. COLD AIR MUFFLER "OPTION TO USE"
6. VORTEX CABINET COOLER COLD AIR DUCT TUBING INTO ENCLOSURE
7. VORTEX CABINET COOLER ENCLOSURE
8. REQUIRED HOE SIZE FOR VORTEX EXHAUST FROM ENCLOSURE
9. REQUIRED HOE SIZE FOR EXHAUST VENT CABINET COOLER = 1.940 (49.00)

WITH SPARK ARRESTER = 1.310 (33.30)

1.4 DEC/09
2.4 DEC/09
3.4 DEC/09
4.4 DEC/09
5.4 DEC/09
6.4 DEC/09
7.4 DEC/09
8.4 DEC/09
9.4 DEC/09

SCALE 1/4"=1'-0"
NOTES:

1. MODIFIED VORTEX CABINET COOLER
2. LARGE EXHAUST VENT ANY USE
3. COMPRESSED AIR SUPPLIED TO VORTEX WITH REQUIRED SPARK ARRESTER
4. 2 EACH CHECK VALVES
5. EACH COLD AIR MUFFLER OPTION TO USE.
6. VORTEX CABINET COOLER 3/8”-18 NPT FITTING
7. VORTEX CABINET COOLER COLD AIR DUCT
8. 2 EACH 4.0” (102.00mm) APART, REQUIRED EXHAUSTED FROM ENCLOSURE
9. REQUIRED HOLE SIZE FOR EXHAUST VENT COOLER = 1.940” (49.00mm)

WITH SPARK ARRESTER = 2.380” (60.50mm)
NOTES:

FOR VENT IS 0.570 (14.50)
REQUIRED HOLE THRU ENCLOSURE WALL

SEALING FITTING

HALL X FEMALE

60 DEGREE ELBOW

SIDE INSIDE WALL ENCLOSURE

SIDE OUTSIDE WALL ENCLOSURE

2.50 (63.5)
NOTE:
1. THROUGH HOLE FOR MOUNTING IS .186 (4.73E)

CURVED WALL OF ENCLOSURE
NOTES:
1. REQUIRED HOLE THRU ENCLOSURE
WALL FOR VENT IS 3.38D (80.53)
Section 6

Maintenance & Troubleshooting

Maintenance:
All Vortex Cabinet Cooler Systems have no moving parts. Clean dry compressed air moving through system will not cause wear and should provide service indefinitely. However, if dirt, water or oil enters the Vortex Cabinet Cooler System from the compressed air supply, this can hinder its performance. If this should happen, take Vortex Cabinet Cooler apart for cleaning and reassemble making sure to properly tighten all parts as before.

Troubleshooting:
Insufficient compressed air pressure / flow maybe caused by the following:
1. Undersized compressed air line size.
2. Compressed air pressure too low; optimal cooling at 100 psig (6.9 bar) compressed air supply pressure to Vortex Cabinet Cooler.
3. Partial or complete blockage of internal compressed air path, due to dirty air supply.

Insufficient cold air temperature maybe caused by the following:
1. Compressed air line temperature too high.
2. Water vapor in the compressed air supply, which could also cause ice build-up within the enclosure, leading to water within enclosure.
3. Loose cold cap. This can occur if not tightened properly after dismantling for cleaning.
4. Insure that Back-Up Vents are not blocked and exhausting air properly.
Section 7
Getting Help

Answers to many questions concerning your Increase Safety Enclosure or any of our other products we offer can be found in this manual. If a problem or question is encountered that is not covered in the documentation provided, assistance is available Monday through Friday (except holidays), from 8 a.m. to 5 p.m. United States central time. To obtain assistance, please call Purge Solutions, Inc. at 832-368-7166.

For assistance during times other than normal business hours, consult our World Wide Web Internet site at http://www.purgesolutions.com. This site includes equipment information, news releases, and other information. E-mail can be sent to info@purgesolutions.com.
Purge Solutions, Inc. Standard Terms and Conditions of Sale

The product, equipment, software, material and/or services (collectively the “Product”), which are described in our quotation, purchase order acknowledgment, packing list and/or invoice hereof shall be sold by Purge Solutions, Inc. only upon the following Standard Terms and Conditions of Sale:

1. CONTRACT TERMS AND ACCEPTANCE OF PURCHASE ORDER: These Standard Terms and Conditions of Sale (the “Contract”) are the only terms and conditions applicable to the sale of the Products, which are based on qualification and completion of the following: a) Acceptance of any Purchase Order is subject to credit approval by Purge Solutions, Inc. b) Acceptance of completed Purge Solutions, Inc. Customer Information Form. c) Final acceptance of Purchase Order will be Purchase Order Acknowledgment being forwarded to Buyer (Only until Purchase Order Acknowledgment has been forwarded to Buyer has purchase order been accepted and sent to manufacturing for processing.)

2. QUOTATION PRICES: Quoted prices are valid for thirty (30) days of quotation date and are exclusive of any applicable taxes, shipping charges and/or any other miscellaneous charges not specified in quote. Prices are subject to change without notice. Any change in quantities, partial release and/or destination may incur a price adjustment.

3. PAYMENT TERMS: Purchase Orders inside the Continental United States; are subject to the approval of Purge Solutions, Inc. Credit Department and unless otherwise agreed in writing, terms of payment are NET thirty (30) days following the date of invoice. Purchase orders outside the continental United States, will be shipped upon receipt of full payment and all costing in US dollars. When the purchase order has been acknowledged, an invoice will be provided. When full payment has been received, including shipping and handling charges, purchase order will be shipped. Purge Solutions, Inc. accepts Visa, MasterCard, Discover and American Express as well as banking transfers. Banking transfer fees are not shared and if banking transfer fees are incorrect, purchase orders will not be shipped. If any Buyer fails to comply with these terms and conditions or sale or if Buyer’s credit becomes unsatisfactory to Purge Solutions, Inc., Purge Solutions, Inc. reserves the right to terminate the purchase order without liability to Purge Solutions, Inc. and all future purchase orders of Buyer will be COD or credit card terms before shipping. If a company has an outstanding invoice that is five (5) days past the due date, open purchase orders are subject to being held until such time as the past due status has been brought current.

4. DELIVERY DATES: Quoted delivery dates are approximate estimates determined at the time of quotation and are subject to revisions due to variations in order processing and new purchase orders in manufacturing queue since quoting. Purge Solutions, Inc. assumes no liability for losses arising from inaccurate lead time estimates and is able to make partial shipments against this Contract. The Buyer shall not hold Purge Solutions, Inc. responsible for any delay or damages suffered by the Buyer by reason of any delay due to fires, strikes, riots, Acts of God, priorities, Government orders or restrictions, delays by suppliers or materials or parts, inability to obtain suitable and sufficient labor and/or any other unavoidable contingencies beyond the control of Purge Solutions, Inc. In no case shall Purge Solutions, Inc. be liable for any consequential or special damages arising from any delay in delivery. In the event of such delay, the shipping date shall be extended for a period equal to the time lost by reason of such delay.

5. CANCELLATIONS: Only prior to shipping of Product may Buyer terminate purchase order providing the following: a) Purge Solutions, Inc. is given reasonable notice. b) Purge Solutions, Inc. is compensated for all costs, expenses incurred or committed and for any losses resulting. Once a purchase order has been shipped, all sales are final.

6. CLAIMS, DAMAGE OR LOSS IN TRANSIT: Delivery of Product to carrier from Purge Solutions, Inc. facility or other shipping point shall constitute delivery. Buyer shall bear the risk of loss for damage to or loss of Product from the time Purge Solutions, Inc. delivers Product to carrier, Buyer or Buyer agent. Any claims for damage or loss, which has passed to the Buyer shall be filed with the carrier. Buyer shall give written notice to Purge Solutions, Inc. of any claim for shortage or error in Product shipped within five (5) days of receipt of Product.

7. WARRANTY AND LIMITATION OF LIABILITY: Purge Solutions, Inc. Products are warranted free from defects in material and workmanship at the time of shipment for one year thereafter (One year from date of shipping.). Any claimed defects with Purge Solutions, Inc. Products must be reported within the warranty period and warranty subject to inspection by Purge Solutions, Inc. All warranty inspections are to be performed at Purge Solutions, Inc. facility. Buyer shall ship with shipping charges paid by the Buyer to Purge Solutions, Inc. facility. After inspection by Purge Solutions, Inc. a quotation of proposed work required will be sent to the Buyer. Purge Solutions, Inc. shall be liable only to replace or repair, at its option, free of charge, Products which are found by Purge Solutions, Inc. to be defective in material or workmanship, and which are reported to Purge Solutions, Inc. within the warranty period as provide previously. This right of replacement shall be Buyer’s exclusive remedy against Purge Solutions, Inc. Shipment of repaired or replaced products from Purge Solutions, Inc. facility shall be ex-works or FOB Purge Solutions, Inc. facility. Purge Solutions, Inc. shall not be liable for labor charges or other losses or damages of any kind or description, including but not limited to, incidental, special or consequential damages caused by defective Products. This warranty shall be void if product specifications provided by Purge Solutions, Inc. are not followed concerning methods of installation, operation, usage, storage or exposure to harsh conditions (including, but not limited to, temperature and humidity levels outside the approved ranges). Products furnished by Purge Solutions, Inc. by other suppliers shall carry no warranty except that supplier’s warranties as to materials and workmanship. Purge Solutions, Inc. disclaims all warranties, expressed or implied, with respect to such Products. The express warranties set forth herein constitute the only warranties with respect to the products sold in connection herewith. Purge Solutions, Inc. makes no representation or warranty of any kind, express or implied (either in fact or by operation of law), with respect to the Products, whether as to their merchantability, fitness for a particular purpose or otherwise. No employee, agent or representative of Purge Solutions, Inc. has any authority to bind Purge Solutions, Inc. to any oral or written representation or warranty concerning the Products over and above that stated herein, except by written amendment signed by Purge Solutions, Inc. and Buyer.

8. RETURNS: Subject to the terms of this Contract regarding CANCELLATION and WARRANTY, All sales are final. Buyer may request a warranty return by contacting Purge Solutions, Inc. and requesting a Return Merchandise Authorization Number. No Product will be accepted for return without a valid Return Merchandise Authorization form and clearly noted on the outside of the shipment. Any return shipment must be made by prepaid freight unless Purge Solutions, Inc. has expressly authorized Buyer in writing to ship such Product to Purge Solutions, Inc. at Purge Solutions, Inc. expense. Any returns of Product authorized by Purge Solutions, Inc. under certain circumstances are subject to a standard restocking charge of 25% of the purchase order’s invoice. Non-stock Products are subject to higher restocking charges, if return privileges are extended.

9. SERVICES: Services rendered by Purge Solutions, Inc. whether with or without charge, are only advisory in nature and are only merely incidental to the sales of the Product. When any such services are rendered, Buyer will retain full responsibility for all control, custody and supervision of the Product, its installation, selection thereof and a representative of Buyer shall be present with full authority to direct operations.