ELITE SERIES
OILLESS AIR COMPRESSOR

INSTALLATION
AND SERVICE
MANUAL
Revised 4-18
ELITE SERIES
OILLESS AIR COMPRESSER

INSTALLATION AND SERVICE MANUAL
This manual is for the installation and service of Tech West’s Elite Series Oilless Air Compressors.

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ELITE SERIES OILLESS AIR COMPRESSOR
INSTALLATION

1. ELITE SERIES OILLESS AIR COMPRESSOR LOCATION REQUIREMENTS

The Elite Series Oilless Air Compressor location should be level, accessible and well ventilated.

If the Elite Series Oilless Air Compressor will be located in a confined space, provide adequate ventilation.

Electrical

(1) Line voltage must be within the limits of Figure 1 below. (Install a “buck-boost transformer” if line voltage is not between these values.) Provide a separate line for each motor. Circuit breaker switches must be 20 - 40 amp depending on model and voltage necessary.

(2) Local code may require you to provide one quick disconnect (safety switch) for each compressor motor.

(3) See Figure 1 below for breaker size and line voltage.

CAUTION - Voltage must be 208/240 V or motor damage may occur.

Figure 1: Recommended Wire and Breaker Size

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amperage</th>
<th>Wire Size (Gauge)</th>
<th>Recommended Breaker Size</th>
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<td>Dual Head Compressors</td>
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<tr>
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<td>208/230</td>
<td>16</td>
<td>10</td>
<td>30</td>
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<td>Triple Head Compressors</td>
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<tr>
<td>ACO6T2</td>
<td>208/230</td>
<td>25.5</td>
<td>8</td>
<td>40</td>
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</table>

* Previous Installations with existing 20 amp circuit breaker and 12 gauge wire is sufficient for installing the ACO4D2.

* New installations will require a 30 amp circuit breaker and 10 gauge wire.
ELITE SERIES OILLESS AIR COMPRESSOR
INSTALLATION

2. INSTALLATION STEPS

This dental compressor should only be installed by qualified personnel. Should any questions arise during the installation, call Tech West Technical Support between the hours of 7:00 a.m. to 4:00 p.m. (Pacific Standard Time).

Place the compressor in a clean, dry, well ventilated area, on a solid, level surface. Consider sound level and insulate as needed. Be sure that adequate ventilation is available as the compressor is air cooled. Ambient temperature in the equipment room should be within the temperature range of 40 degrees Fahrenheit minimum to 100 degrees Fahrenheit maximum.

(a) Check the shipping carton for damage. This could detect damage to the unit which might otherwise be overlooked. Remove cardboard shipping carton.

(b) Remove the Oilless Compressor from its shipping skid. Inspect the unit for damage. Oilless Compressors are shipped bolted to a pallet. This pallet is intended for shipping only and should be discarded.

(c) Remove installation kit attached to pallet. It should contain the following:

   (4) Isolation Feet
   (1) Alternate Air Hookup Hose
   (1) 5' Flexible Air Hose

(d) Install isolation feet on tank legs.

(e) Wiring instructions:

   (1) Have all electrical connections made by qualified personnel only. All connections should be in accordance with local codes.

   (2) Use the chart on page 1 to help determine the proper line and breaker size for the unit that is being installed.

(f) Install the air line from the compressor tank to the building supply.

(g) Install the 1” flex alternate air hose from the compressor to a fresh air supply.
3. CONNECTIONS

Figure 2

- Electrical Connection to disconnect and electrical panel 220 v
- Dryer Purge Connection
- Air Out Connection to building supply line
- Alternate Air Connection to fresh air supply
5. **SAFETY PRECAUTIONS**

- Keep fingers, foreign objects and clothing free from rotating parts and do not touch hot surfaces.
- Never attempt to service an operating unit.
- Isolate unit from system pressure and relieve backpressure before servicing.
- Disconnect all power before servicing. The thermal protector in single phase motors automatically starts motor when device resets.

**USE OF THIS PRODUCT IN OR NEAR EXPLOSIVE ATMOSPHERES, OR FOR PUMPING MIXTURES OTHER THAN ATMOSPHERIC AIR MAY CAUSE AN EXPLOSION OR FIRE, RESULTING IN PERSONAL INJURY OR DEATH.**

5. **START-UP STEPS**

(a) Make sure the shut-off valve from the compressor tank is closed.

(b) Turn the breaker from the panel to the “ON” position.

(c) Turn power “ON” from the toggle switch on the compressor. Compressor should run quietly and vibration free. The storage tank should start to build pressure.

(d) The compressor will run until the pressure gauge reads 110 psi. The compressor then will automatically shut off and the dryer will purge with a quick blast of air.

(e) Using soapy water, check the compressor plumbing hook ups for leaks. Repair leaks if needed.

(f) Pressure test the entire plumbing system for leaks. Use the storage tank pressure gauge to monitor a pressure drop. After the plumbing system has been pressurized for 30 minutes, re-check the gauge for pressure drop. If there is a drop in pressure, find and repair all leaks in the office plumbing.

(g) Complete and mail in the warranty card for the compressor within ten days of installation.

**AIR LEAKS ARE THE MAIN CAUSE OF COMPRESSOR FAILURES.**
6. GENERAL SERVICE INFORMATION

For parts and service on the Elite series compressor contact the nearest authorized Tech West distributor. To expedite appropriate service, be prepared to provide the unit model number, identification number, and serial number found on the nameplate located on the front of the unit motor.

Component life operating at continuous duty & maximum pressure
Life of the rings and skirts is difficult to predict due to many conditions which directly influence wear. Some of these conditions may include ambient air temperature, air cleanliness, operating pressure, piston stroke on the particular model being utilized, duty cycle, maintenance of filters, etc.

Because of these various factors it is appropriate to generalize on component wear life and choose some conservative estimates for most standard applications.

7. PERIODIC SERVICING

MONTHLY SERVICING
(a) Remove the purge bucket and empty as needed
(b) Crack the drain petcock on the bottom of the storage tank to check for water and drain if needed.
(c) Check moisture indicator to see that it is still “BLUE”. If it is pink, it is time to service the air dryer.
(d) Check intake air supply filters. Replace filters as needed.

YEARLY SERVICING
(a) Repeat all of the monthly servicing.
(b) Replace the alternate air filter. (Part #: TIF-100 for the ACO4D2)
    (Part #: TIF-200 for the ACO6T2)
(c) Check the coalescing filter and change if needed. (Part #: CFEO-375)
### GAUGE AND CUT-OFF ASSEMBLY

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
<th>UNIT</th>
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<td>ATM</td>
<td>ALUMINUM TANK MANIFOLD</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>BV-250-FM</td>
<td>BALL VALVE 1/4” FEMALE TO MALE</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>FE-4-4</td>
<td>BRASS FLARE ELBOW 1/4” X 1/4”</td>
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<tr>
<td>4</td>
<td>POVA-100</td>
<td>POP OFF VALVE 125 PSI ASME</td>
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<tr>
<td>5</td>
<td>MI-100</td>
<td>MOISTURE INDICATOR</td>
<td>1</td>
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<td>6</td>
<td>CPG-250</td>
<td>COMPRESSOR PRESSURE GAUGE</td>
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<td>7</td>
<td>FA-4-4</td>
<td>BRASS FLARE ADAPTOR 1/4” X 1/4”</td>
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<td>8</td>
<td>SSN-375-CL</td>
<td>STAINLESS STEEL NIPPLE 3/8” CLOSED</td>
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## REAR VIEW ASSEMBLY AND PARTS LIST

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**KEY**

1. INSIDE TANK ELEMENT
2. TANK ELEMENT
3. DESSICANT TANK ELEMENT
4. INSIDE TANK ELEMENT
5. BALL VALVE 1/4
6. BALL VALVE 1/4
7. BALL VALVE 1/4
8. BALL VALVE 1/4
9. BALL VALVE 1/4
10. BALL VALVE 1/4
11. BALL VALVE 1/4
12. BALL VALVE 1/4
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TRIPLE ELITE OILLESS AIR COMPRESSOR
WIRING DIAGRAM
## DUAL ELITE OILLESS AIR COMPRESSOR

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### TRIPLE ELITE OILLESS AIR COMPRESSOR

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<td>EMM</td>
<td>ELITE MOTOR MOUNT</td>
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Trouble Shooting Chart
Dual Elite Series Oilless Air Compressor

1. Check voltage supplied to the compressor.
2. Does compressor run for a few seconds, "chugs", then stops? NO
3. Does compressor pressurize from 80 to 1000 psi in less than 1 minute with no air being used? NO
4. Does compressor cycle with no air being used? NO
5. Does compressor run too hot or too frequent? NO
6. Does unloader valve system function properly? NO

YES

Is the moisture indicator pink?
1. Locate and repair leaks.
2. Ventilate if room is above 100 deg. F.
3. Contact compressor may be undersized.

Donald Triple Series Oilless Air Compressor Diagram

Is intake filter clogged?
1. Locate and repair.

YES

Does unloader valve pressure switch or float assembly seat while running? NO

Check voltage applied to the compressor.

YES

Locate and repair.

NO

Note: Close shut off valve, pump up tank to 100 psi. If pressure is maintained for 15-20 min., leak is in office lines.

NO

Does motor run for a few seconds, "chugs", then stops? NO

Check voltage at the valve and make sure valve is closed.

YES

Does air bleed out the relief valve? NO

Clean or replace.

YES

Replace intake filter.

NO

Detective head, contact Tech West.

YES

Is there a blockage in air lines?

NO

Detective head, contact Tech West.

YES

Is there sufficient pressure build up with head discharge line removed? NO

Note: Close shut off valve, pump up tank to 100 psi. If pressure is maintained for 15-20 min., leak is in office lines.

YES

Locate and repair.

NO

Does air leak from unloader valve or the purge muffler continuously until unit cycles again?

YES

Does air compress pressurize from 80 to 1000 psi in less than 1 minute with no air being used? NO

NO

Does unloader valve system function properly?

YES

Does compressor cycle with no air being used?

NO

YES

Does compressor run for a few seconds, "chugs", then stops? NO

Check voltage supplied to the compressor.

YES

Locate and repair.

NO

Check voltage applied to the compressor.

YES

Locate and repair.

NO

Defective head, contact Tech West.

YES

Does air leak from unloader valve or the purge muffler continuously until unit cycles again? NO

Detective head, contact Tech West.

YES

Make sure that the dryer valve is closing properly.

NO

Does compressor run for a few seconds, "chugs", then stops? NO

Check voltage supplied to the compressor.

YES

Locate and repair.

NO

Defective head, contact Tech West.

YES

Are there leaks in compressor or in office piping system?

NO

Does compressor run for a few seconds, "chugs", then stops? NO

Check voltage supplied to the compressor.

YES

Locate and repair.

NO

Defective head, contact Tech West.

YES

Are there leaks in compressor or in office piping system?

NO

Does compressor run for a few seconds, "chugs", then stops? NO

Check voltage supplied to the compressor.

YES

Locate and repair.

NO

Defective head, contact Tech West.

YES

Are there leaks in compressor or in office piping system?

NO

Does compressor run for a few seconds, "chugs", then stops? NO

Check voltage supplied to the compressor.

YES

Locate and repair.

NO

Defective head, contact Tech West.

YES

Are there leaks in compressor or in office piping system?

NO

Does compressor run for a few seconds, "chugs", then stops? NO

Check voltage supplied to the compressor.

YES

Locate and repair.

NO

Defective head, contact Tech West.

YES

Are there leaks in compressor or in office piping system?
Trouble Shooting Chart
Triple Elite Series Oilless Air Compressor

Does compressor run for a few seconds, "chugs", then stops?
- YES
  - Check voltage supplied to the compressor.
- NO
  - Does compressor pressure rise from 80 to 1000 psi in less than 1 minute with no air being used?
    - YES
      - Does compressor cycle with no air being used?
        - YES
          - Is the moisture indicator pink?
            - YES
              - Service dryer and replace moisture indicator.
            - NO
              - Does unloader valve system function properly?
                - YES
                  - 1. Locate and repair leaks.
                    - 2. Ventilate if room is above 100 deg. F.
                    - 3. Contact Tech West.
                - NO
                  - Check for proper voltage. Use buck-boost if needed.
    - NO
      - Does compressor cycle with no air being used?
        - YES
          - Defective head, contact Tech West.
        - NO
          - Locate and repair.

Does air bleed out the relief valve?
- YES
  - Clean or replace.
  - Replace intake filter.
- NO
  - Does unloader valve pressure switch or float assembly seat while running?
    - YES
      - Locate and repair.
    - NO
      - Is there sufficient pressure build-up with head discharge line removed?
        - YES
          - Make sure that the dryer valve is closing properly.
        - NO
          - Defective head, contact Tech West.

Is intake filter clogged?
- YES
  - Clean or replace.
- NO
  - Does unloader valve pressure switch or float assembly seat while running?
    - YES
      - Locate and repair.
    - NO
      - Is there a blockage in air lines?
        - YES
          - Locate and repair.
        - NO
          - Check voltage at the valve and make sure valve is closed.

Does unloader valve pressure switch or float assembly seat while running?
- YES
  - Replace intake filter.
  - Defective head, contact Tech West.
- NO
  - Is intake filter clogged?
    - YES
      - Replace intake filter.
    - NO
      - Are there leaks in compressor or in office piping system?
        - YES
          - Locate leaks in compressor or in office piping system.
        - NO
          - Is there a blockage in air lines?
            - YES
              - Locate and repair.
            - NO
              - Check voltage supplied to the compressor.

Note: Close shut off valve. Pump up tank to 100 psi. If pressure is maintained for 15-20 min., leak is in office lines.

Does air leak from unloader valve or the purge muffler continuously until unit cycles again?
- YES
  - 1. Locate and repair leaks.
  - 2. Ventilate if room is above 100 deg. F.
  - 3. Contact Tech West.
- NO
  - Does compressor run too hot or too frequent?
    - YES
      - Defective head, contact Tech West.
    - NO
      - Check voltage supplied to the compressor.

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- YES
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- NO
  - LOCAE AND REPAIR.

Service dryer and replace moisture indicator.

Does the moisture indicator pink?
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Is there a blockage in air lines?
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