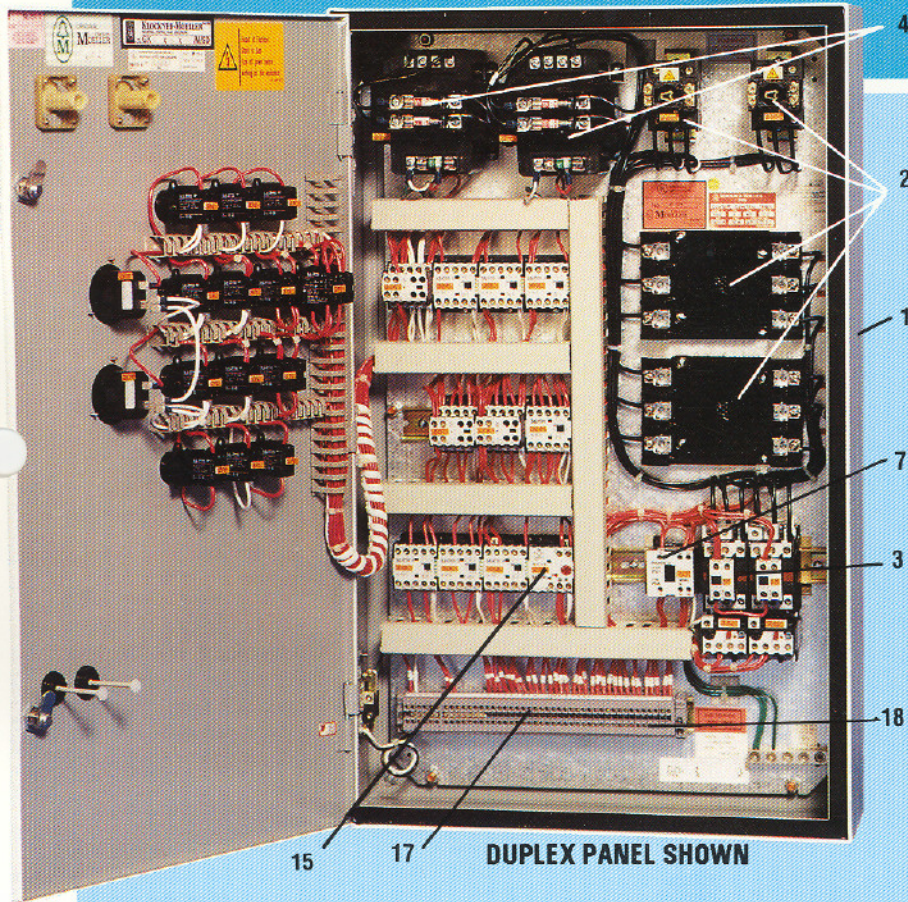
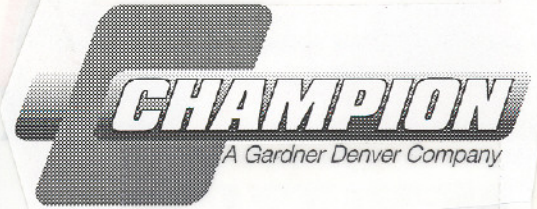


# MEDI-TROL

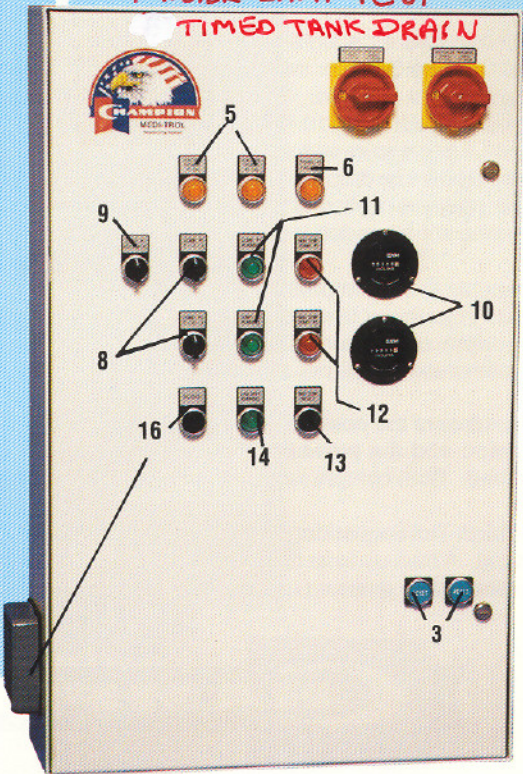
## DUPLEX/TRIPLEX/QUADRAPLEX CONTROL PANEL for OIL-LESS AIR COMPRESSORS



DUPLEX PANEL SHOWN

- 1 NEMA Type 12 Enclosure
- 2 (2) Fusible Disconnects/Switches
- 3 (2) Magnetic Contactors w/Overload Relay Protection and Door Mounted Reset.
- 4 (2) Control Circuit Transformers w/Fused Primary & Secondary and Flip-Flop Relay
- 5 (2) Amber Power on Pilot Lights
- 6 (1) Amber Transformer Failure Pilot Light
- 7 (1) Automatic Duplex Alternator
- 8 (2) Test-Off-Auto Selector Switches, Spring Return from Test to Off

**MASTER LAMP TEST**

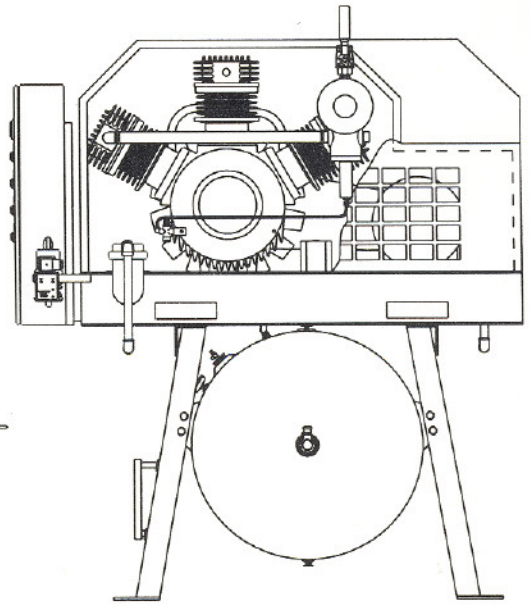
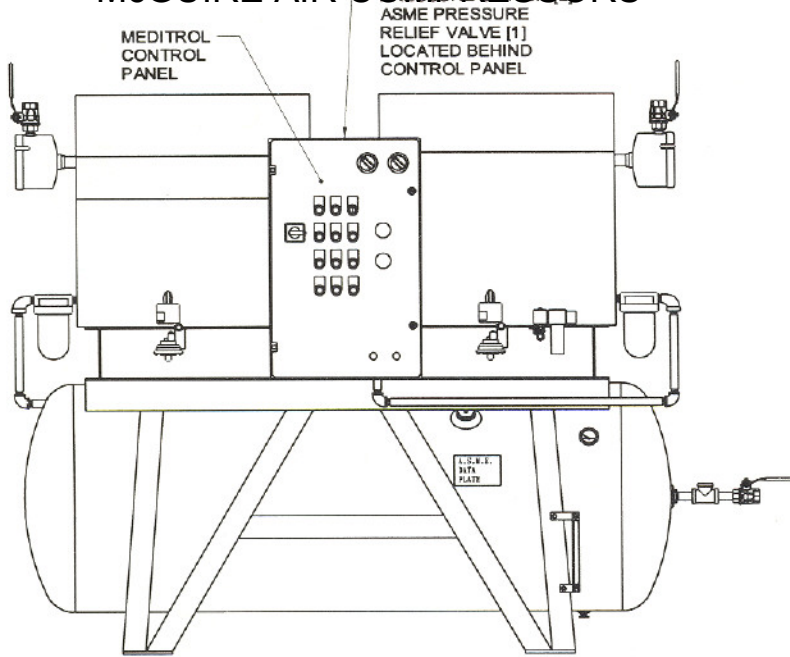


- 9 (1) Auto-Compressor #1-Compressor #2 Selector Switch
- 10 (2) Elapsed Time Meters
- 11 (2) Green Compressor Run Pilot Lights
- 12 (2) Red High Temperature Pilot Lights
- 13 (1) Door Mounted High Temperature Switch Reset
- 14 (1) Green Lag Unit Run Pilot Light
- 15 (1) Start-Up Timer (lag unit)
- 16 (1) Alarm/Horn w/Silencer Button (high temp. & lag unit run)
- 17 Control Wire Terminal Block
- 18 Additional Contacts for Remote Alarm Annunciator - High Temperature and Lag Run.

Standard panel components meet current NFPA 99-96 minimum standards.

Enclosure Dimensions

H	W	D
31 1/2"	19 3/4"	6 7/8"



**SEQUENCE OF OPERATION (Duplex Control System Described)**

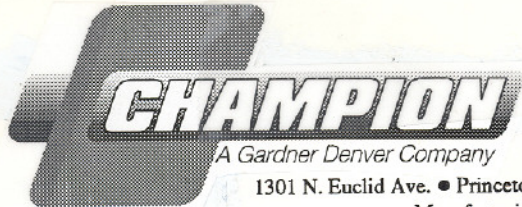
The Champion Medi-Trol Sequencing System can provide automatic alternation of the compressors for an equal amount of operating time on each.

With both fusible disconnects in the "ON" position, and the Auto-Compressor #1-compressor #2 switch in the "Auto" position, turn both Test-Off-Auto Selector switches to the "Auto" position. Both compressors will start and run until the cut-out setting of the two pressure switches are reached. The Lead (Pressure Switch #1) and Lag (Pressure Switch #2) have the same cut-out pressure, but the Lag pressure switch has a 10 PSIG lower cut-in setting than the Lead pressure switch. As the pressure drops and reaches the cut-in setting of the Lead pressure switch, compressor #1 starts and will run until the cut-out setting of the Lead pressure switch is reached. The next time the pressure drops to the cut-in setting of the Lead pressure switch, compressor #2 will start and run until the cut-out setting of the Lead pressure switch is reached. The compressors will continue to alternate in this manner as long as the Auto-Compressor #1-Compressor #2 switch is in the "Auto" position.

When the Auto-Compressor #1-Compressor #2 switch is in the "Compressor #1" position, compressor #1 will start and run every time the cut-in setting of the Lead pressure switch is reached. When the Auto-Compressor #1-Compressor #2 switch is in the "Compressor #2" position, compressor #2 will start and run every time the cut-in setting of the Lead pressure switch is reached. In either of these modes, the compressors will not alternate.

Regardless of the position of the Auto-Compressor #1-Compressor #2 switch, if the compressor that is running cannot maintain the air demand and the pressure continues to drop, the second compressor will start when the cut-in setting of the Lag pressure switch is reached. Both compressors will run until the cut-out setting of both pressure switches are reached.

The Medi-Trol Sequencing System includes visual and audible alarms for high discharge air temperature and lag unit (second compressor) running. A start-up timer allows both compressors to run during initial start-up without having an alarm condition. The audible alarm can be silenced by pressing the "Silence" button.



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