Generic Compressor Running Instructions for Tropical Conditions

**Compressor Pre-Startup Checks**
- **Oil Level**: Checked & correct. Verify oil type (mineral/synthetic) if top up required.
- **Input Filter**: Checked & Verified clean with no air passage resistance
- **Output Filter**: Checked & Verified correct type within time limits
- **Fan Belt**: Check for tightness and alignment.
- **Hoses**: Check for good condition, correct working pressure and with no cracks or ‘kinks’
- **Filter towers**: Check all covers are fully screwed in and secure.
- **Log Book**: Check that no routine maintenance is needed. Enter the date & time

**Compressor Startup Sequence**
- **Condensate Drains**: Confirm all condensate drains are OPEN and that there is no pressure anywhere in the compressor.
- **Drain Valves Position**: Leave all condensate drain valves open, so the compressor can start-up in an off load condition.
- **GAUGES**: All gauges should say ZERO.
- **Start the compressor –** CLOSE drain valves immediately the compressor attains normal running speed.
- **CLACKING NOISE**: Verify clacking noise stops within 10 seconds after all drain valves are closed
- **PMV**: Ensure no air comes out of compressor filling hoses until 150bars is reached in the final filter tower.
- **SAFETY VALVE**: Connect filling valve to cylinder with valve turned off. Confirm final safety valve operates at 225 bars.

**Compressor Shut Down Sequence**
- **Drain Valves**: Open all drain valves to release all system pressure.
- **Gauges**: Wait until gauges indicate that all built up pressure is released.
- **Engine/Motor**: Switch off the electric supply or turn off the petrol motor once all built up pressure is released.

**Compressor running tests**
- **RPM**: Check it is correct (refer to specifications/mfg data sheet
- **Vibration**: Check nothing is shaking loose, and fan belt looks tight
- **Condensate**: Purge every 15minutes for Bauer Models, Every 5 minutes for most Coltrisub in tropical conditions
- **Oil Level**: Stop every 3 hours to confirm oil level is still correct.
- **Filter**: Stop unit when necessary to change output filter when end of life ‘hours used’ is reached.
  Example filter lifetimes in tropical 30degrees Centigrade ambient conditions are as follows:-
  Bauer old Mariner/P21=5 hours, with PMV set to 150bars, 15 minutes condensate purge
  Bauer Mariner 250/P31=25hours, with PMV set to 150bars, 15 minutes condensate purge
  Bauer Mariner 250/P31=50hours, with PMV set to 150bars, 15 minutes condensate purge
  Coltrisub MCH16=12hours, with PMV set to 150bars, **5 minutes** condensate purge
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Petrol Engine Pre-Startup checks
Oil level Checked
Input filter Checked & Verified unblocked
Spark Plug Check the lead is connected
Petrol Level Checked full

Petrol Engine Startup sequence
1. Ensure all compressor condensate drain valves are OPEN
2. Ensure fan belt(from motor to compressor) is fitted correctly
3. Turn Fuel ON
4. Turn Ignition to ON position
5. Place CHOKE into the COLD/START position
6. Set the throttle to 1/3 full speed
7. Slowly pull starter cord until resistance is felt
8. Remove slack from starter cord by releasing it to allow the spring mechanism to take up the slack)
9. Sharply pull starter cord and the engine should start. It helps to wish for ‘good luck’ at this stage…

Petrol Engine Running Checks
1. Place CHOKE into the WARM/RUN position
2. Set throttle to FULL SPEED setting.
3. Close all compressor condensate drains and allow to build up pressure
4. Verify Petrol Engine RPM is correct (Usually 3,600 rpm for Honda GX series )

Petrol Engine Switch off sequence (Normal)
1. Turn off petrol valve so as to allow the motor to use up all petrol in the carburetor.
2. Allow the motor to stop naturally when petrol runs out.
3. After the motor has stopped, turn off the ignition.

Petrol Engine Switch off sequence (Emergency)
1. Simply TURN OFF THE IGNITION