

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