

7

Emissions

Compliance versus Certified

As of July 1, 2008 Arrow Engines rated under 25 HP will be sold as "certified" which means they meet the emissions standards (40 CFR 90 and 40 CFR 60) set forth by the EPA effective July 1, 2008

Arrow engines that are "compliant" engines means they are NOT certified coming out from the factory. Being "compliant" means with the proper air fuel ratio controller and catalyst the engines are able to meet the EPA emission standards required as of July 1, 2008.

Arrow Certified Engines

Owner and operators must retain the "Certificate of Conformity" have a maintenance plan and keep maintenance records in order to keep the engine in a "certified" manner.

Maintenance recommendations are listed on page 103 of this manual. Owners and operators should maintain their engine(s) per their own maintenance program. This maintenance program should be based on **their specific site operating conditions.**

Please consult Arrow Engine Company engineering department if adding any exhaust back pressure restriction to the system. Emission certifications is based on using the (standard) silencer P/N:MUF-1

Contact Arrow Engine Company engineering department if the engine is to be operated continuously below 25% load.

All certified and certifiable engines require a closed loop breather system - please consult the factory if you have any questions

Emission Set Points

Emission Set Point: C-46

RPM RANGE	400 to 800 RPM
MAX. HP RATING	800 RPM @ 9 HP 700 RPM @ 9 HP 600 RPM @ 8 HP 500 RPM @ 7 HP 400 RPM @ 5 HP
GAS SUPPLY SETTINGS	800 RPM @ 8" WC 700 RPM @ 8" WC 600 RPM @ 8" WC 500 RPM @ 9" WC 400 RPM @ 12" WC <i>(Pressure measured at fuel inlet to carburetor)</i>
Settings are based on 1000 BTU Pipeline Natural Gas.	

Emission Set Point: C-66

RPM RANGE	350 to 700 RPM
MAX. HP RATING	700 RPM @ 13 HP 600 RPM @ 13 HP 500 RPM @ 11 HP 350 RPM @ 8 HP
GAS SUPPLY SETTINGS	700 RPM @ 5" WC 600 RPM @ 8" WC 500 RPM @ 11" WC 350 RPM @ 12" WC <i>(Pressure measured at fuel inlet to carburetor)</i>
Settings are based on 1000 BTU Pipeline Natural Gas.	

Emission Set Points: C-96 Engine

RPM RANGE	300 - 600 RPM
MAX. HP RATING	600 RPM @ 19 HP 500 RPM @ 18 HP 400 RPM @ 14 HP 300 RPM @ 11 HP
GAS SUPPLY SETTINGS	600 RPM @ 3" WC 500 RPM @ 3" WC 400 RPM @ 4" WC 300 RPM @ 4.5" WC <i>(Pressure measured at fuel inlet to carburetor)</i>
Settings are based on 1000 BTU Pipeline Natural Gas.	