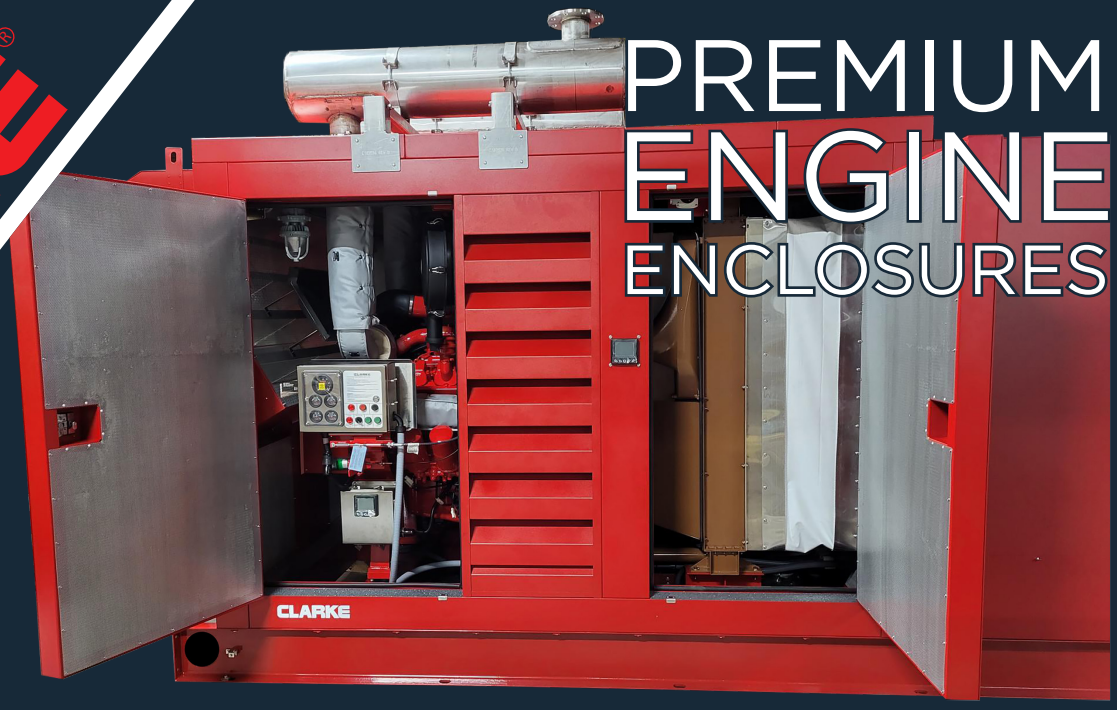
PREMIUM ENGINE ENCLOSURES



BEST IN CLASS ENGINE ENCLOSURES

When called upon in an emergency, Clarke's diesel fire pump engine needs to immediately respond to support a facilities sprinkler system, the first line of defense against fire. For installations in desert environments or installations near salt water sea spray, Clarke's best in class, sound attenuated enclosures protect your engine so it can run when needed [1,2].

PREMIUM MATERIALS TO ENSURE PROTECTION

Constructed with premium materials such as marine grade 5052 aluminum, mineral wool insulation, and powder coated steel frames, Clarke enclosures are ***BUILT TO LAST***. Coated with Clarke's RAL3001 Signal Red Textured Powder Coat Finish, Clarke's enclosure is designed to resist minor impacts or corrosion due to salt spray, humidity, and water in accordance with appropriate ASTM (American Society for Testing and Materials) standards.

PROVEN AND TESTED

Unlike our competitors, all Clarke enclosures are designed to limit mechanical and exhaust noise to 85dba at 1 meter [3], adhering to noise exposure limits for hearing safety. With an insulated screened air inlet and exhaust hood, noise levels have consistently been recorded lower than previous non-insulated and competitive enclosures.

SERVICE MADE SIMPLE

Annual maintenance for enclosed engines can be difficult. Solving hard to reach replacement part locations, Clarke's new battery rack and fan drive access ports, provide convenient maintenance access for making service and repairs simple.

Competitively priced with low lead times, Clarke's Sound Attenuated Modular designed enclosures have been standardized in three sizes, fitting both Clarke Heat Exchanger and Radiator cooled engines. Pre-engineered standard sizes eliminates long lead times. Contact Clarke today to discover how a Clarke enclosure can protect your engine investment.

ENCLOSURE GROUP	ENGINE MODELS	LENGTH	WIDTH	HEIGHT*
1	JU4H, JU4R, JU6H, JU6R	156.4"	61.4"	96"
2	DQ6H, JW6H, C13H, DR8H	170.4"	81.4"	100"
3	DS0H, DS0R, DT2H, DT2R, C18H	194.4"		

*Height includes enclosure plus 6" C-Channel frame. Height DOES NOT include silencer, and may vary based on silencer selection.

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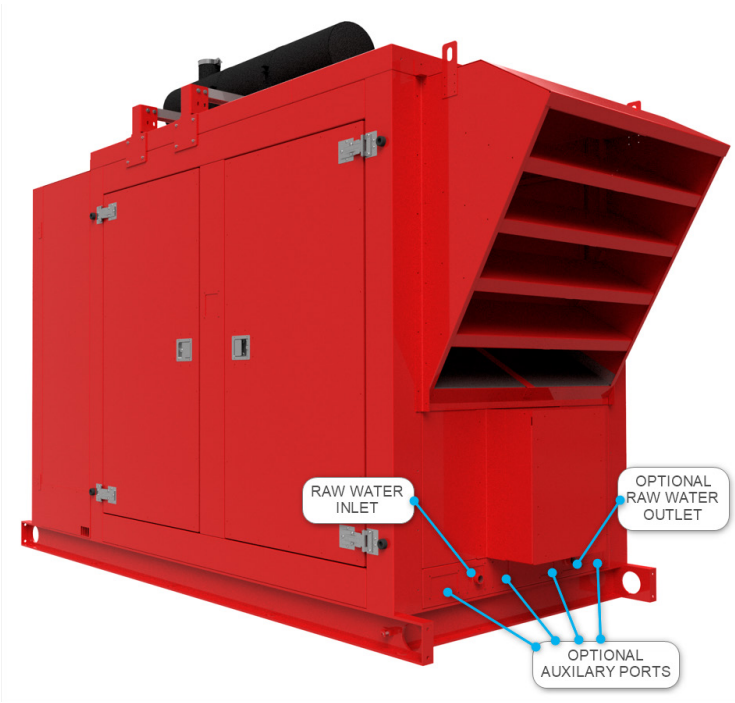

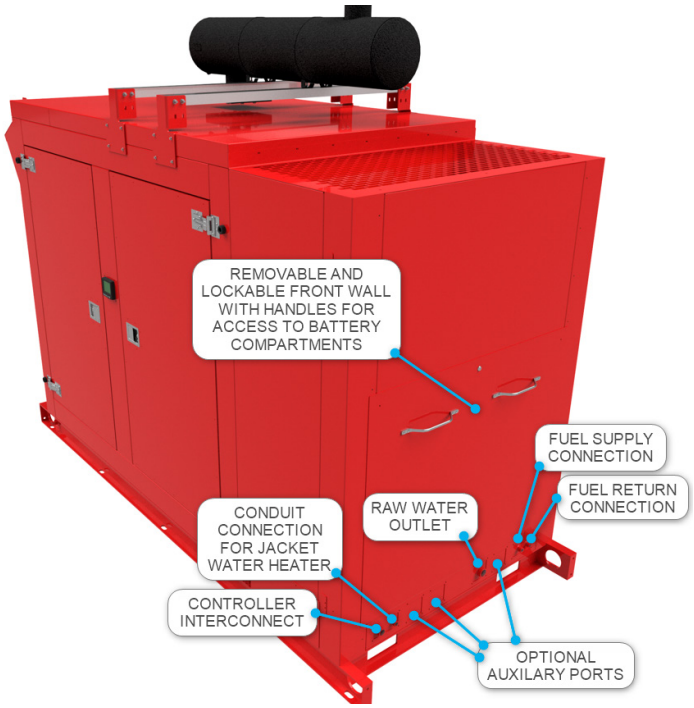

ITEM	STANDARD
Structure	5052 Marine Grade Aluminum, 0.10" thickness 4" of mineral wool insulation Perforated aluminum interior wall liner, .050" thickness Insulated, screened air inlet ventilation hood on pump end Insulated exhaust hood with vertical discharge Telescoping driveshaft guard Lockable and removable doors with stainless steel handle and two-point latches, stainless steel hardware and hinges Removable maintenance panels for: battery access, discharge hood clean out
Finish	RAL3001 Signal Red Textured Powder Coat Finish
Structural Frame	C-Channel Frame RAL3001 Textured Powder Coat Finish
Ventilation	Heat exchanger cooled models utilize a belt driven ventilation fan off the front of the engine ▲ Radiator cooled models utilize existing cooling fan; acoustic intake louver; acoustically insulated discharge hood
Silencer(s)	Critical grade, carbon steel Silencers roof mounted, vertical discharge with rain cap
Fuel Connections	Fuel supply and return line bulkhead connections, located on the non-pump end.
Oil Connections	Oil sump pump, manually operated
Raw Water Cooling Loop	Galvanized cooling loop raw water finish plumbing for supply and discharge in and out of enclosure, discharge outlet is located on the non-pump end
Electrical Connections	Bulkhead connection and conduit for DC and AC wiring located on the non-pump end
Fuel Lines	Fire resistant rubber hose (ISO 15540 Standard)
Batteries	Dual Lead Acid 8D battery sets for either 12v or 24v with rack(s) and cables in the discharge hood
Driveshaft	Engine driven, flywheel mounted flexible connecting shaft
Exhaust	Insulation wrap on exhaust piping and exhaust flex inside enclosure
Engine Parameter Display (outside)	LED Engine Parameter Display on exterior of enclosure
Air Cleaner	Canister Style (single stage) air cleaner to reduce intake noise

ITEM	OPTIONAL
Silencer(s)	Critical grade, 316 stn stl Critical grade, spark arresting, carbon or 316 stn stl
Fuel Connections	Fuel supply and return line bulkhead connections, located on the non pump end
Electrical Connections	Bulkhead connection and conduit for DC and AC wiring located on the non pump end
Fuel Lines	316 Stainless steel
Batteries	NiCad with battery tray, racks and cables for either 12v or 24v with rack(s) and cables in the discharge hood AGM batteries with rack and cables in the discharge hood
Driveshaft	Engine driven, flywheel mounted, torsional coupling with flexible connecting shaft
Raw Water Cooling Loop	Sea Water Compatible; 316 Stainless Steel; High Pressure (400 psi) Rear Outlet for Raw Water Discharge (Pump Side)
Air Cleaner	Canister Style (two stage cyclonic)

Note 1: Clarke enclosures are not intended to protect against freezing conditions or extreme heat and do not include heating or AC units. Clarke engines should be operated at 40°F -120°F (5°C - 48°C) as per NFPA 20.
Note 2: For high ambient, direct sun installations, it is recommended that a canopy be installed above the engine enclosure.
Note 3: The estimate is based on typical engine sound pressure level (SPL) data provided by the engine manufacturer, and typical enclosure attenuation testing performance at Clarke. The engine SPL data is often extrapolated to match the specific fire pump driver ratings. Installation specifics such as background SPL, leakage paths created during installation, and the SPL rebounding from surrounding objects, all affect the final SPL. These factors are beyond control of Clarke. Clarke makes no guarantee of limiting the SPL of this proposed equipment to the estimates provided. The noise, Sound Pressure Level (SPL) measurement provided is the overall level of 4 sides and 4 corners, measured 1 meter from the enclosure and 1.5 meters above the ground with engine only (no pump) running at no load in a free-field. Measurements are averaged over 10 seconds. The overall level is a logarithmic average (weighted average) that is calculated per the following formula from ISO 8528-10 with a tolerance of +/- 1.5 dB(A).
Note 4: Lead Acid batteries shipped dry; must be filled prior to startup.

▲Refer to C137369 and the Engine Selection Calculator to confirm engine sizing based on parasitic fan losses of the ventilation fan in addition to temperature and altitude de-rates

Specifications and information contained in this brochure are subject to change without notice.

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C134038 RevS
05JUN24

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