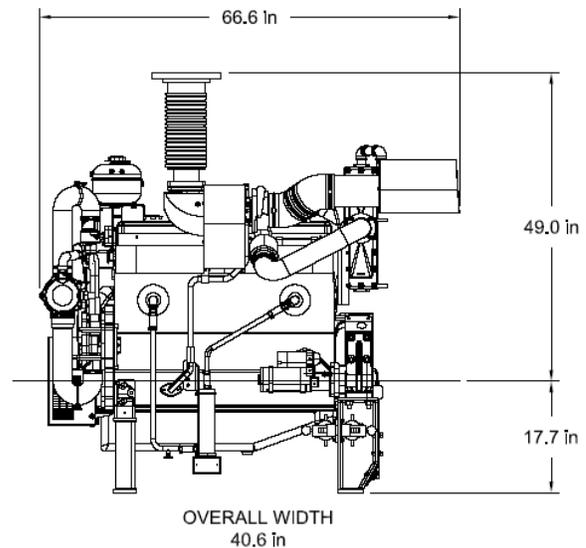


FM-UL-cUL APPROVED RATINGS BHP/KW

DQ6H MODEL ◆ λ	RATED SPEED			
	1470	1760	2100	
DQ6H-UFAA48	240	179		
DQ6H-UFAA4G		290	216	
DQ6H-UFAA40			310	231
DQ6H-UFAA50			340	254
DQ6H-UFAA60		345	257	360 269
DQ6H-UFAA88		375	280	
DQ6H-UFAA98	300	224	410	306

◆ All Models are available for Export

λ = Non-Emissionized



SPECIFICATIONS

ITEM	DQ6H MODELS						
	UFAA48	UFAA4G	UFAA40	UFAA50	UFAA60	UFAA88	UFAA98
Number of Cylinders	6						
Aspiration	TRWA						
Rotation*	CW						
Weight – lb (kg)	2500 (1134)						
Compression Ratio	17:1						
Displacement – cu. in. (l)	674 (11.1)						
Engine Type	4 Cycle, 2 Valves per Cylinder, In-Line						
Bore & Stroke – in. (mm)	4.84 x 6.1 (123 x 155)						
Installation Drawing	D658						
Wiring Diagram AC	C07651						
Wiring Diagram DC	C071842						
Engine Series	126 Series						
Speed Interpolation	Optional						

Abbreviations: CW – Clockwise TRWA – Turbocharged with Raw Water Aftercooling

*Rotation viewed from Heat Exchanger / Front of engine

CERTIFIED POWER RATING

- Each engine is factory tested to verify power and performance.

ENGINE RATINGS BASELINES

- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.
- Engines are rated at standard SAE conditions of 29.61 in. (752.1 mm) Hg barometer and 77°F (25°C) inlet air temperature [approximates 300 ft. (91.4 m) above sea level] by the testing laboratory (see SAE Standard J 1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m)
- A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F (5.6°C) above 77°F (25°C) ambient temperature.

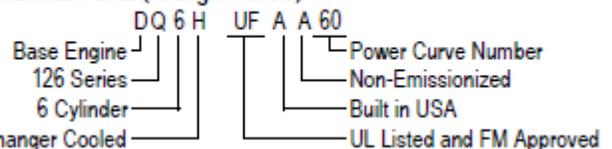


ENGINE EQUIPMENT

EQUIPMENT	STANDARD	OPTIONAL
Air Cleaner	Direct Mounted, Washable, Indoor Service with Drip Shield	Disposable, Drip Proof, Indoor Service Outdoor Type, Single or Two Stage
Alternator	24V-DC, 45 Amps with Dual (2) V-Belt Drive with Guard	
Exhaust Protection	Blankets	
Coupling	Bare Flywheel	Listed Driveshaft CDS50-SC; Vertical Turbine Drivedisc
Exhaust Flex Connection	Stainless Steel Flex, 150# Flange Connection, 6"	Stainless Steel Flex, 150# Flange Connection, 8"
Flywheel Housing	SAE #1	
Flywheel Power Take Off	14.0" Industrial Flywheel Connection	
Fuel Connections	Fire Resistant, Flexible, USA Coast Guard Approved, Supply and Return Lines	
Fuel Filter	Primary and Secondary	
Fuel Injection System	Direct Injection, Inline Pump	
Engine Heater	230V-AC, 2000 Watt	115V-AC, 2000 Watt
Governor, Speed	Variable Speed, Mechanical	
Heat Exchanger	Tube and Shell Type, 60 PSI (4 BAR), NPT(F) Connections	Sea/Salt Water Compatible
Instrument Panel	Tachometer, Hourmeter, Water Temperature, Oil Pressure and Two (2) Voltmeters, Front Opening	
Junction Box	Integral with Instrument Panel; For DC Wiring Interconnection to Engine Controller	
Lube Oil Cooler	Engine Water Cooled, Plate Type	
Lube Oil Filter	Full Flow with By-Pass Valve	
Lube Oil Pump	Gear Driven, Gear Type	
Manual Start Control	On Instrument Panel with Control Position Warning Light	
Overspeed Control	Electronic with Reset and Test on Instrument Panel	
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel	
Run – Stop Control	On Instrument Panel with Control Position Warning Light	
Run Solenoid	24V-DC Energized to Stop	
Starters	One (1) 24V-DC with Two (2) Start Contactors	
Throttle Control	Adjustable Speed Control, Tamper Proof	
Water Pump	Centrifugal Type, Dual (2) V-Belt Drive with Guard	

Abbreviations: DC – Direct Current, AC – Alternating Current, SAE – Society of Automotive Engineers, NPT(F) – National Pipe Tapered Thread (Female)

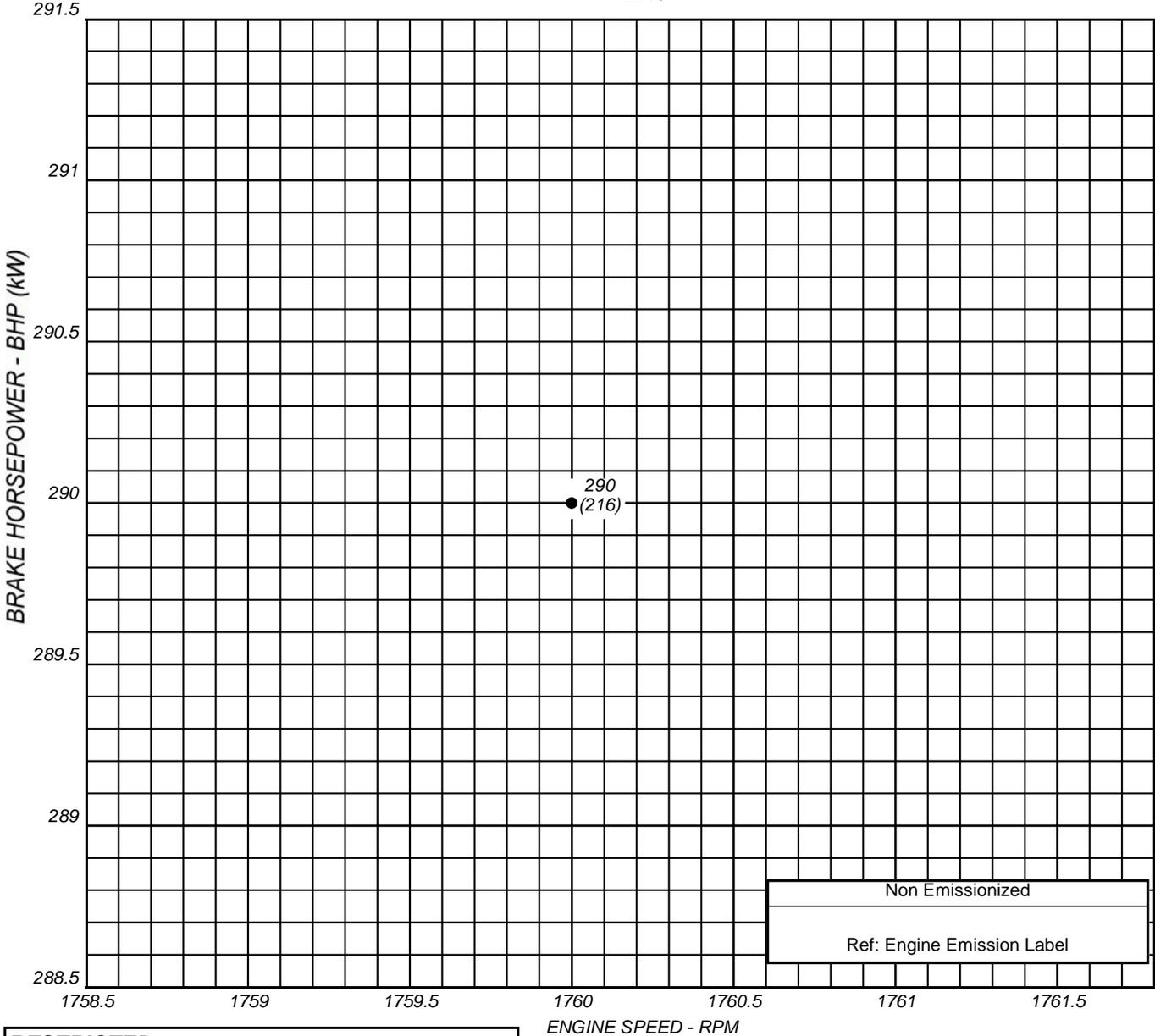
MODEL NOMENCLATURE (10 Digit Models)





Fire Protection Products, Inc.

FIRE PUMP MODEL: DQ6H-UFAA4G
Heat Exchanger Cooled/Turbocharged
Raw Water Charge Cooling
11.1 Liter



RESTRICTED:
USE ONLY FOR STAND-BY FIRE PUMP APPLICATIONS

ENGINE PERFORMANCE:
STANDARD CONDITIONS: (SAE J1349, ISO 3046)
77°F (25°C) AIR INLET TEMPERATURE
29.61 IN. (751.1MM) HG BAROMETRIC PRESSURE
#2 DIESEL FUEL (SEE C13940)


KEVIN KUNKLER 01MAR11

● — ● NAMEPLATE BHP (MAXIMUM PUMP LOAD)

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CREATED	<i>KFE</i>	DATE CREATED	03/01/11
ENGINE MODEL DQ6H-UFAA4G			
DRAWING NO.	C133486	REV	A



DQ6H-UFAA4G

INSTALLATION & OPERATION DATA (I&O Data)

USA Produced

Basic Engine Description

Engine Manufacturer	PU126TI
Ignition Type	Compression (Diesel)
Number of Cylinders	6
Bore and Stroke - in (mm)	4.84 (123) X 6.1 (155)
Displacement - in ³ (L)	674.5 (11.1)
Compression Ratio	17:1
Valves per cylinder	
Intake	1
Exhaust	1
Combustion System	Direct Injection
Engine Type	In-Line, 4 Stroke Cycle
Fuel Management Control	Mechanical, Inline Pump
Firing Order (CW Rotation)	1-5-3-6-2-4
Aspiration	Turbocharged
Charge Air Cooling Type	Raw Water
Rotation, viewed from front of engine, Clockwise (CW)	Standard
Engine Crankcase Vent System	Open
Installation Drawing	D658
Weight - lb (kg)	2500 (1130)

Power Rating

	1760
Nameplate Power - HP (kW) ^[1]	290 (216)

Cooling System - [C051529]

	1760
Engine Coolant Heat - Btu/sec (kW)	139 (147)
Engine Radiated Heat - Btu/sec (kW)	19.6 (20.7)
Heat Exchanger Minimum Flow	
60°F (15°C) Raw H ₂ O - gal/min (L/min)	25 (94.6)
100°F (37°C) Raw H ₂ O - gal/min (L/min)	30 (114)
Heat Exchanger Maximum Cooling Raw Water	
Inlet Pressure - psi (bar)	60 (4.1)
Flow - gal/min (L/min)	80 (303)
Typical Engine H ₂ O Operating Temp - °F (°C)	170 (76.7) - 190 (87.8)
Thermostat	
Start to Open - °F (°C)	181 (82.8)
Fully Opened - °F (°C)	203 (95)
Engine Coolant Capacity - qt (L)	36 (34.1)
Coolant Pressure Cap - lb/in ² (kPa)	10 (68.9)
Maximum Engine Coolant Temperature - °F (°C)	203 (95)
Minimum Engine Coolant Temperature - °F (°C)	160 (71.1)
High Coolant Temp Alarm Switch - °F (°C)	205 (96.1)

Electric System - DC

	Standard	
System Voltage (Nominal)	24	
Battery Capacity for Ambients Above 32°F (0°C)		
Voltage (Nominal)	12	{C07633}
Qty. Per Battery Bank	2	
SAE size per J537	8D	
CCA @ 0°F (-18°C)	1400	
Reserve Capacity - Minutes	430	
Battery Cable Circuit, Max Resistance - ohm	0.0012	
Battery Cable Minimum Size		
0-120 in. Circuit Length ^[2]	00	
121-160 in. Circuit Length ^[2]	000	
161-200 in. Circuit Length ^[2]	0000	
Charging Alternator Maximum Output - Amp,	45	{65.26101-7153C}
Starter Cranking Amps, Rolling - @60°F (15°C)	250	{65.26101-7070D}

NOTE: This engine is intended for indoor installation or in a weatherproof enclosure. ¹Derate 3% per every 1000 ft. [304.8 m] above 300 ft. [91.4 m] and derate 1% for every 10 °F [5.55 °C] above 77° [25°C]. ²Positive and Negative Cables Combined Length.



DQ6H-UFAA4G

INSTALLATION & OPERATION DATA (I&O Data)

USA Produced

Exhaust System (Single Exhaust Outlet)

1760

Exhaust Flow - ft. ³ /min (m ³ /min)	1427 (40.4)
Exhaust Temperature - °F (°C)	796 (424)
Maximum Allowable Back Pressure - in H ₂ O (kPa)	30 (7.5)
Minimum Exhaust Pipe Dia. - in (mm) ^[3]	6 (152)

Fuel System

1760

Fuel Consumption - gal/hr (L/hr)	22 (83.3)
Fuel Return - gal/hr (L/hr)	
Fuel Supply - gal/hr (L/hr)	
Fuel Pressure - lb/in ² (kPa)	25 (172) - 35 (241)
Minimum Line Size - Supply - in.50 Schedule 40 Steel Pipe
Pipe Outer Diameter - in (mm)	0.848 (21.5)
Minimum Line Size - Return - in.375 Schedule 40 Steel Pipe
Pipe Outer Diameter - in (mm)	0.675 (17.1)
Maximum Allowable Fuel Pump Suction Lift with clean Filter - in H ₂ O (mH ₂ O)	31 (0.8)
Maximum Allowable Fuel Head above Fuel pump, Supply or Return - ft (m) ..	9 (2.7)
Fuel Filter Micron Size	5

Heater System

Standard

Optional

Engine Coolant Heater		
Wattage (Nominal)	2000	2000
Voltage - AC, 1 Phase	230 (+5%, -10%)	115 (+5%, -10%)
Part Number	{C122193}	{C122189}

Air System

Combustion Air Flow - ft. ³ /min (m ³ /min)	610 (17.3)	
Air Cleaner	Standard	Optional
Part Number	{C03244}	{C03330}
Type	Indoor Service Only, with Shield	Canister, Single-Stage
Cleaning method	Washable	Disposable
Dirty Air Cleaner - in H ₂ O (kPa)	14 (3.5)	14 (3.5)
Clean Air Cleaner - in H ₂ O (kPa)	7 (1.7)	7 (1.7)
Maximum Allowable Temperature - °F (°C)	130 (54.4)	

Lubrication System

Oil Pressure - normal - lb/in ² (kPa)	65 (448) - 77 (531)
Low Oil Pressure Alarm Switch - lb/in ² (kPa)	20 (138)
In Pan Oil Temperature - °F (°C)	180 (82.2) - 248 (120)
Total Oil Capacity with Filter - qt (L)	24.4 (23.1)

Lube Oil Heater

Optional

Optional

Wattage (Nominal)	150	150
Voltage	240V (+5%, -10%)	120V (+5%, -10%)
Part Number	C04430	C04431

Performance

1760

BMEP - lb/in ² (kPa)	193 (1330)
Piston Speed - ft/min (m/min)	1789 (545)
Mechanical Noise - dB(A) @ 1m	C133939
Power Curve	C133846

³Minimum Exhaust Pipe Diameter is based on: 15 feet of pipe, one 90° elbow, and one Industrial silencer. A Back-pressure flow analysis must be performed on the actual field installed exhaust system to assure engine maximum allowable back pressure is not exceeded. See Exhaust Sizing Calculator on www.clarkefire.com.
{ } indicates component reference part number.

ENGINE MATERIALS AND CONSTRUCTION

Air Cleaner

Type..... Indoor Usage Only
 Oiled Fabric Pleats
 Material..... Surgical Cotton
 Aluminum Mesh

Air Cleaner - Optiona

Type..... Canister
 Material..... Pleated Paper
 Housing..... Enclosed

Camshaft

Material..... Carbon Steel
 Induction Hardening
 Location..... In Block
 Drive..... Gear, Spur
 Type of Cam..... Ground

Charge Air Cooler

Type..... Raw Water Cooled
 Materials (in contact with raw water)
 Tubes..... 90/10 CU/NI
 Headers..... 36500 Muntz
 Covers..... 83600 Red Brass
 Plumbing..... 316 Stainless Steel/ Brass
 90/10 Silicone

Coolant Pump

Type..... Centrifugal
 Drive..... Gear

Coolant Thermostat

Type..... Full Blocking
 Qty..... 2

Cooling Loop (Galvanized)

Tees, Elbows, Pipe..... Galvanized Steel
 Ball Valves..... Brass ASTM B 124
 Solenoid Valve..... Brass
 Pressure Regulator..... Bronze
 Strainer..... Cast Iron (1/2"- 1" Loops)
 or Bronze (1.25" - 2" Loops)

Cooling Loop (Sea Water)

Tees, Elbows, Pipe..... 316 Stainless Steel
 Ball Valves..... 316 Stainless Steel
 Solenoid Valve..... 316 Stainless Steel
 Pressure Regulator/Strainer. Cast Brass ASTM B176 C87800

Cooling Loop (316SS)

Tees, Elbows, Pipe..... 316 Stainless Steel
 Ball Valves..... 316 Stainless Steel
 Solenoid Valve..... 316 Stainless Steel
 Pressure Regulator/Strainer. 316 Stainless Steel

Connecting Rod

Type..... Diagonally Split
 Material..... Die Forged Steel

Crank Pin Bearings

Type..... One Piece
 Material..... Steel backed, Lead Bronze

Crankshaft

Material..... Forged Steel
 Type of Balance..... Dynamic

Cylinder Block

Type..... One Piece with
 Non-Siamese Cylinders
 Material..... Cast Iron Alloy

Cylinder Head

Type..... 3 Cyl. Slab
 Material..... Cast Iron

Cylinder Liners

Type..... Centrifugal Cast, Dry Liner
 Material..... Alloy Iron Plateau, Honed

Valves

Type..... Poppet
 Arrangement..... Overhead Valve
 Number/Cylinder..... 1 intake
 1 exhaust
 Operating Mechanism..... Mechanical Rocker Arm
 Valve Seat Insert..... Replaceable

Fuel Pump

Type..... Piston
 Drive..... Cam Lobe

Heat Exchanger - Standard (Non-Sea Water Compatible)

Type..... Tube & Shell
 Materials (in contact with raw water)
 Tubes..... Copper
 Headers..... Rubber
 Shell..... Aluminum
 Housings..... Cast Iron
 Electrode..... Zinc

Heat Exchanger - Optional (Sea Water Compatible)

Type..... Tube & Shell
 Materials (in contact with raw water)
 Tubes..... Copper
 Headers..... Copper
 Shell..... Copper
 Electrode..... Zinc

Injection Pump

Type..... In-Line
 Drive..... Gear

Lubrication Cooler

Type..... Plate

Lubrication Pump

Type..... Gear
 Drive..... Gear

Main Bearings

Type..... Precision Half Shells
 Material..... Steel Backed, Lead Bronze

Piston

Type and Material..... Aluminum Alloy with Reinforced
 Top Ring Groove
 Cooling..... Oil Jet Through Drive

Piston Pin

Type..... Fixed

Piston Rings

Number/Piston..... 3
 Top..... Keystone Barrel Faced-
 Gas Nitride Coated
 Second..... Tapered Cast Iron
 Hard Chrome Coated
 Third..... Double Rail Type
 w/Expander Spring

4

3

2

1

DATUMS:
 -A- MOUNTING FACE OF FLYWHEEL
 -B- ENGINE CRANKSHAFT HORIZONTAL ϕ
 -C- ENGINE CRANKSHAFT VERTICAL ϕ
 CENTER OF GRAVITY
 - CLOCKWISE (CW) ROTATION WHEN VIEWED FROM FRONT OF ENGINE

CAUTION:
 ALL PLUMBING MUST BE SUPPORTED AND/OR ISOLATED SO THAT NO WEIGHT OR STRESS IS APPLIED TO ANY ENGINE COMPONENT

ATTENTION:
 REFER TO THE SPECIFIC MODELS' "INSTALLATION AND OPERATION DATA" FOR INSTALLATION GUIDELINES

AVAILABLE MODELS:
 DQ6H-UFAA4G, DQ6H-UFAA48, DQ6H-UFAA40, DQ6H-UFAA50, DQ6H-UFAA60, DQ6H-UFAA88, DQ6H-UFAA98
 *DQ6H-UFKA4G, DQ6H-UFKA48, DQ6H-UFKA40, DQ6H-UFKA50, DQ6H-UFKA60, DQ6H-UFKA88, DQ6H-UFKA98

(ALL MODELS ARE TURBOCHARGED WITH RAW WATER AFTER COOLING)

NOTES:
 1) FUEL SUPPLY PIPING FROM TANK TO ENGINE SHOULD BE 1/2" MINIMUM PIPE DIAMETER
 2) FUEL RETURN PIPING FROM TANK TO ENGINE SHOULD BE 3/8" MINIMUM PIPE DIAMETER

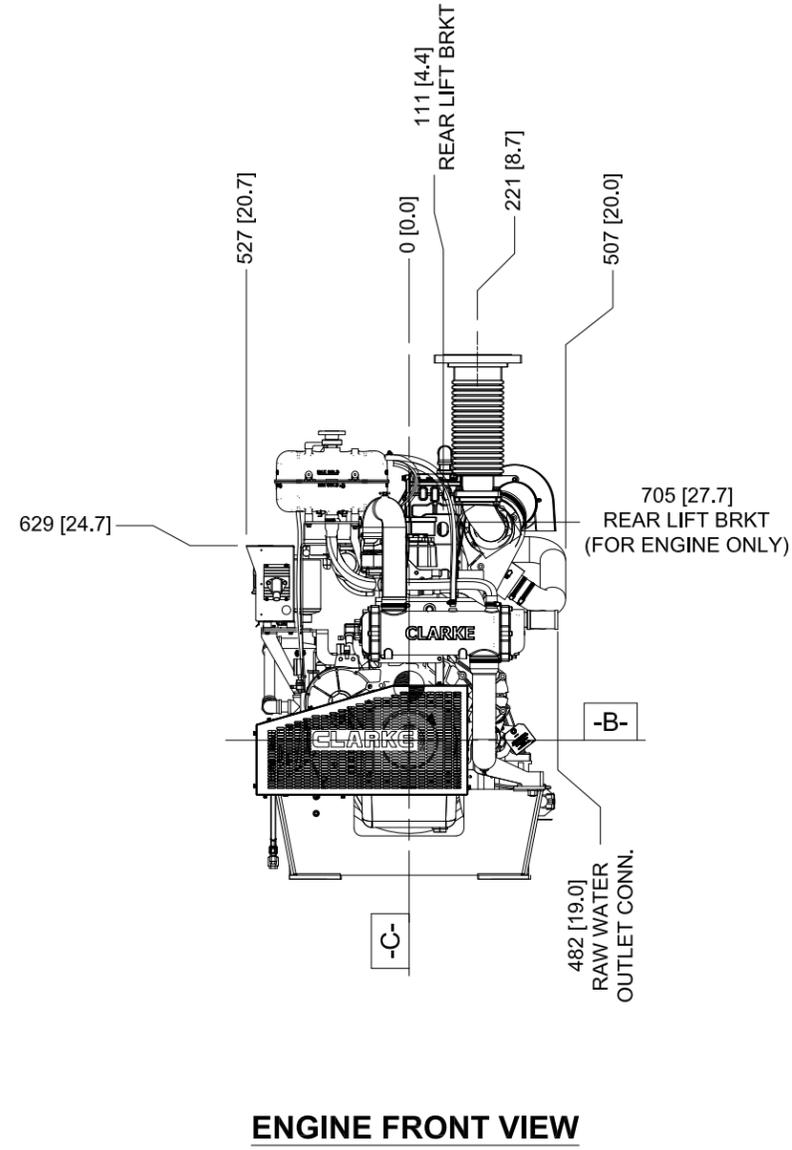
DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

DO NOT SCALE

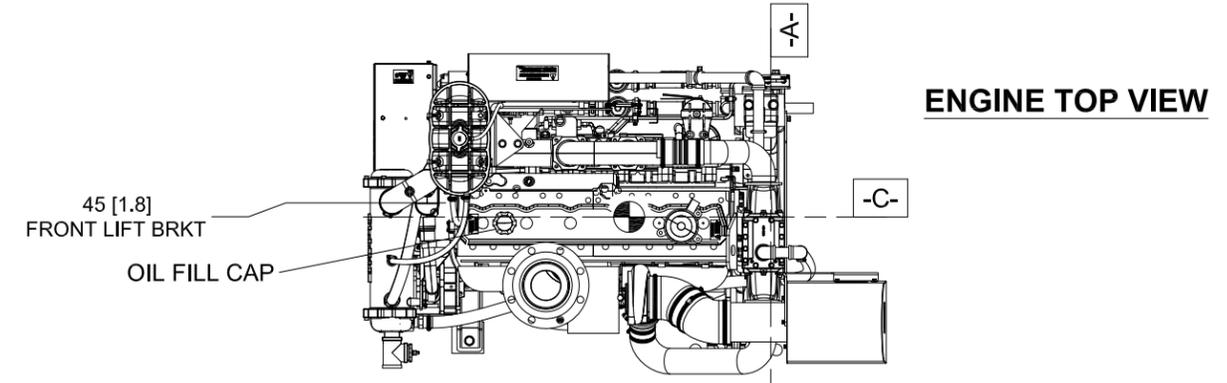
NOTE:
 THE LOOP SHOWN IS BASED ON STANDARD LOOP CONSTRUCTION AND FM SIZING CONDITIONS

FOR ALTERNATE LOOP CONSTRUCTION (STAINLESS STEEL, SEA WATER, AND HIGH PRESSURE) SIZES MAY VARY

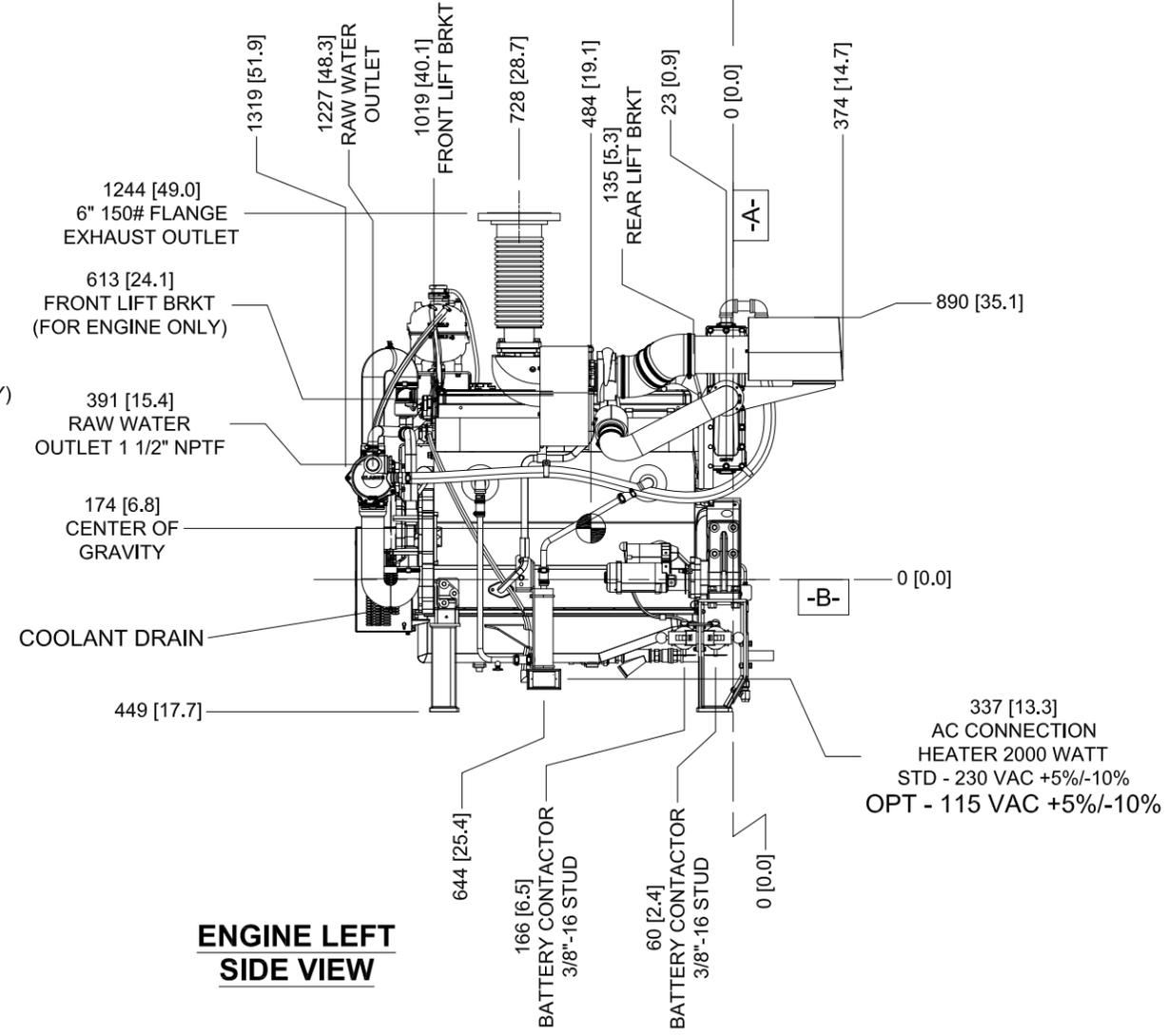
FOR ENGINES BUILT IN USA BEGINNING APRIL 2015



ENGINE FRONT VIEW



ENGINE TOP VIEW



ENGINE LEFT SIDE VIEW

REV	DESCRIPTION	ECN#	DWN	APVD	DATE
J	1-1/2" NIPPLE AND 90° ELBOW ADDED TO SIDE OUTLET OF HEAT EXCHANGER	3278	JDH	<i>KJE</i>	12JUN14
K	FUEL SUPPLY AND RETURN CALLOUTS WERE IN ERROR	3784	MLL	JCA	17OCT14
L	ADDED COOLING LOOP/PIPING KIT	3631	KFB	<i>AKC</i>	30JAN15
M	ADDED FLYWHEEL INFO	4179	JGV	<i>MDP</i>	05AUG15
N	RAW WATER OUTLET SIZE WAS 1 1/4"	4345	CMM	<i>KPW</i>	01DEC15
P	UPDATED COOLING LOOP, ADDED INDICATOR PLATES	4359	PMK	<i>AKC</i>	15DEC15
Q	UPDATED COOLANT GEOMETRY TO SHOW ISOLATORS	4475	JGV	JCA	07MAR16
R	REMOVED ENGINE MODELS DQ6H-UFAAX8 / DQ6H-UFKAX8	4764	RDR	<i>MDP</i>	25OCT16
S	ADDED DIMS TO ENGINE LIFTING BRACKETS	5061	MDM	<i>MDP</i>	26JUN17

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CONTROLLED DRAWING

CLARKE

Fire Protection Products, Inc.

DRWN RTOLLE
 DATE 12/9/2010
 ENGR KKUNKLER

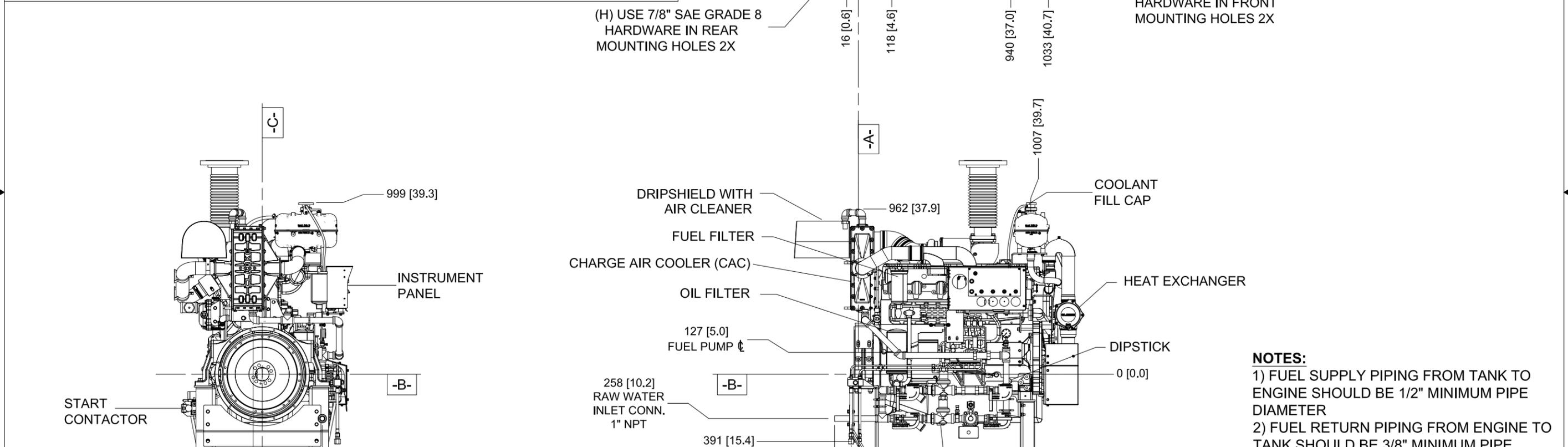
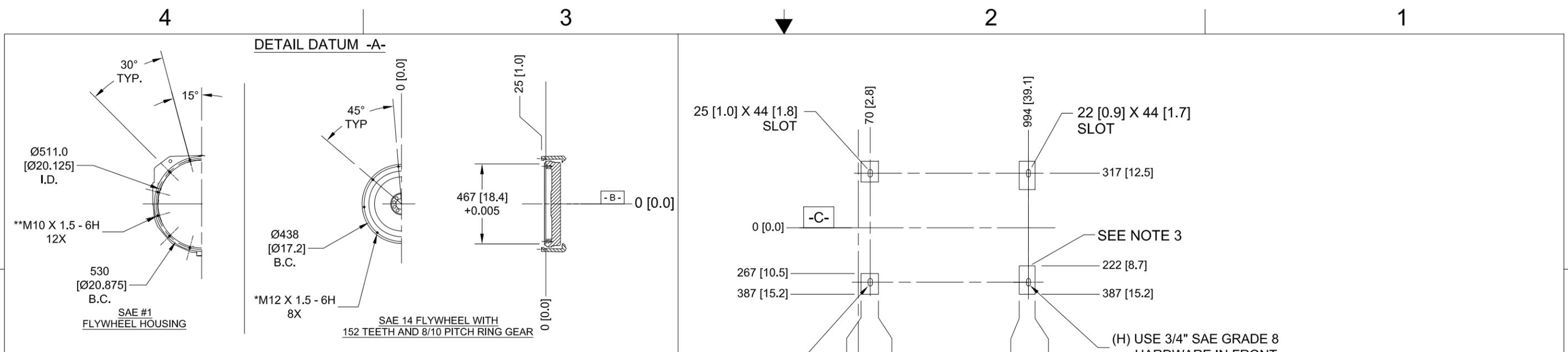
NAME
INSTALLATION DRAWING, DQ6H-UFAA-UFGA MODELS, DIESEL FIRE PUMP DRIVER
 PART NO. **D658** REV **S**
 SCALE NTS UNITS MM [INCH]
 PAGE 1 OF 2

4

3

2

1



(H) USE 7/8" SAE GRADE 8 HARDWARE IN REAR MOUNTING HOLES 2X

(H) USE 3/4" SAE GRADE 8 HARDWARE IN FRONT MOUNTING HOLES 2X

- NOTES:**
 1) FUEL SUPPLY PIPING FROM TANK TO ENGINE SHOULD BE 1/2" MINIMUM PIPE DIAMETER
 2) FUEL RETURN PIPING FROM ENGINE TO TANK SHOULD BE 3/8" MINIMUM PIPE DIAMETER
 3) ENGINE MOUNTING FEET ARE SYMMETRICAL ABOUT CRANKSHAFT CENTERLINE DATUM -C-

THIS DRAWING AND THE INFORMATION HEREON ARE OUR PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED BY US. UNPUBLISHED—ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CONTROLLED DRAWING	CLARKE <i>Fire Protection Products, Inc.</i>	
MACHINE TOLERANCE DECIMAL mm inch X ± 1.5 XX ± 0.8 ± 0.06 XXX ± 0.3 ± 0.03 XXXX ± 0.025 ± 0.01 XXXXX ± 0.01 ± 0.001 ANGULAR: ± 0.5°		DRWN RTOLLE DATE 12/9/2010 ENGR KKUNKLER	NAME INSTALLATION DRAWING DQ6H-UFAA MODELS DIESEL FIRE PUMP DRIVER	
FABRICATION TOLERANCE DECIMAL mm inch X ± 3 XX ± 1.5 ± 0.12 XXX ± 0.6 ± 0.06 ANGULAR: ± 1.0°		MATERIAL ASSEMBLY DQ6H	PART NO. D658	REV S
		SCALE NTS UNITS MM [INCH]	PAGE 2 OF 2	

DQ6H-UFAA4G FIRE PUMP DRIVER NOISE DATA

Mechanical Engine Noise *

RPM	BHP	OVERALL dB(A)	Octave Band									
			31.5 Hz dB(A)	63 Hz dB(A)	125 Hz dB(A)	250 Hz dB(A)	500 Hz dB(A)	1k Hz dB(A)	2k Hz dB(A)	4k Hz dB(A)	8k Hz dB(A)	16k Hz dB(A)
1760	290	109.2	67	69.2	82.6	89.2	97.1	99.7	104.9	103.4	101.7	101.7

Raw Exhaust Engine Noise **

RPM	BHP	OVERALL dB(A)	Octave Band									
			31.5 Hz dB(A)	63 Hz dB(A)	125 Hz dB(A)	250 Hz dB(A)	500 Hz dB(A)	1k Hz dB(A)	2k Hz dB(A)	4k Hz dB(A)	8k Hz dB(A)	16k Hz dB(A)
1760												

* Values above are provided at 3.3ft (1m) from engine block and do not include the raw exhaust noise.

** Values above are provided at 23ft (7m), 90° horizontal, from a vertical exhaust outlet and does not include noise created mechanically by the engine.

The above data reflects values for a typical engine of this model, speed and power in a free-field environment.

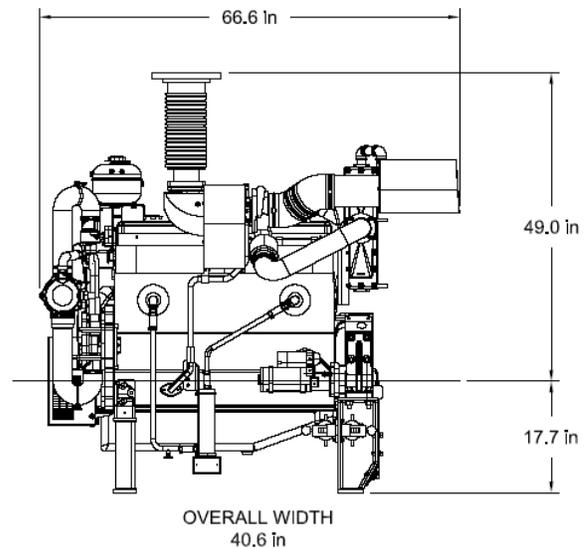
Installation specifics such as background noise level and amplification of noise levels from reflecting off of surrounding objects, will affect the overall noise levels observed. As a result of this, Clarke makes no guarantees to the above levels in an actual installation.

FM-UL-cUL APPROVED RATINGS BHP/KW

DQ6H MODEL ◆ λ	RATED SPEED			
	1470	1760	2100	
DQ6H-UFAA48	240	179		
DQ6H-UFAA4G		290	216	
DQ6H-UFAA40			310	231
DQ6H-UFAA50			340	254
DQ6H-UFAA60		345	257	360 269
DQ6H-UFAA88		375	280	
DQ6H-UFAA98	300	224	410	306

◆ All Models are available for Export

λ = Non-Emissionized



SPECIFICATIONS

ITEM	DQ6H MODELS						
	UFAA48	UFAA4G	UFAA40	UFAA50	UFAA60	UFAA88	UFAA98
Number of Cylinders	6						
Aspiration	TRWA						
Rotation*	CW						
Weight – lb (kg)	2500 (1134)						
Compression Ratio	17:1						
Displacement – cu. in. (l)	674 (11.1)						
Engine Type	4 Cycle, 2 Valves per Cylinder, In-Line						
Bore & Stroke – in. (mm)	4.84 x 6.1 (123 x 155)						
Installation Drawing	D658						
Wiring Diagram AC	C07651						
Wiring Diagram DC	C071842						
Engine Series	126 Series						
Speed Interpolation	Optional						

Abbreviations: CW – Clockwise TRWA – Turbocharged with Raw Water Aftercooling

*Rotation viewed from Heat Exchanger / Front of engine

CERTIFIED POWER RATING

- Each engine is factory tested to verify power and performance.

ENGINE RATINGS BASELINES

- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.
- Engines are rated at standard SAE conditions of 29.61 in. (752.1 mm) Hg barometer and 77°F (25°C) inlet air temperature [approximates 300 ft. (91.4 m) above sea level] by the testing laboratory (see SAE Standard J 1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m)
- A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F (5.6°C) above 77°F (25°C) ambient temperature.



ENGINE EQUIPMENT

EQUIPMENT	STANDARD	OPTIONAL
Air Cleaner	Direct Mounted, Washable, Indoor Service with Drip Shield	Disposable, Drip Proof, Indoor Service Outdoor Type, Single or Two Stage
Alternator	24V-DC, 45 Amps with Dual (2) V-Belt Drive with Guard	
Exhaust Protection	Blankets	
Coupling	Bare Flywheel	Listed Driveshaft CDS50-SC; Vertical Turbine Drivedisc
Exhaust Flex Connection	Stainless Steel Flex, 150# Flange Connection, 6"	Stainless Steel Flex, 150# Flange Connection, 8"
Flywheel Housing	SAE #1	
Flywheel Power Take Off	14.0" Industrial Flywheel Connection	
Fuel Connections	Fire Resistant, Flexible, USA Coast Guard Approved, Supply and Return Lines	
Fuel Filter	Primary and Secondary	
Fuel Injection System	Direct Injection, Inline Pump	
Engine Heater	230V-AC, 2000 Watt	115V-AC, 2000 Watt
Governor, Speed	Variable Speed, Mechanical	
Heat Exchanger	Tube and Shell Type, 60 PSI (4 BAR), NPT(F) Connections	Sea/Salt Water Compatible
Instrument Panel	Tachometer, Hourmeter, Water Temperature, Oil Pressure and Two (2) Voltmeters, Front Opening	
Junction Box	Integral with Instrument Panel; For DC Wiring Interconnection to Engine Controller	
Lube Oil Cooler	Engine Water Cooled, Plate Type	
Lube Oil Filter	Full Flow with By-Pass Valve	
Lube Oil Pump	Gear Driven, Gear Type	
Manual Start Control	On Instrument Panel with Control Position Warning Light	
Overspeed Control	Electronic with Reset and Test on Instrument Panel	
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel	
Run – Stop Control	On Instrument Panel with Control Position Warning Light	
Run Solenoid	24V-DC Energized to Stop	
Starters	One (1) 24V-DC with Two (2) Start Contactors	
Throttle Control	Adjustable Speed Control, Tamper Proof	
Water Pump	Centrifugal Type, Dual (2) V-Belt Drive with Guard	

Abbreviations: DC – Direct Current, AC – Alternating Current, SAE – Society of Automotive Engineers, NPT(F) – National Pipe Tapered Thread (Female)

MODEL NOMENCLATURE (10 Digit Models)

