

Item Number / Tags	: 750@8-D-ST-HSC	Size	: 5"-1822CF
Service	:	Stages	: 1
Quantity	: 1	Driver type	: Engine
Quote number	: 19-02-26-MG-750@8-HSC-EDJ-ST-SPECS	Frequency	: 0 Hz
Date last saved	: 02 Mar 2026 5:37 AM	Speed, rated	: 3000 rpm
Flow, rated	: 170.3 m3/h	Based on curve number	: 184-5X6X11C-2950
Differential head / pressure, rated	: 80.31 m	Efficiency	: 63.15 %
Flange rating (suction / discharge)	: 125/125	Max working pressure, allowable	: 12.07 bar.g
Secondary Point (150% of rated flow)	: 255.5 m3/h	Max Shutoff Head (Calculated)	: 88.76 m
Secondary Point (65% of rated head)	: 52.20 m	Max suction pressure, allowable	: 3.38 bar.g
Max Shutoff per NFPA	: 112.4 m	Suction pressure, max (user specified)	: 0.00 bar.g
		Pump shutoff w/ suction pressure	: 8.69 bar.g
		Power driver, minimum	: 70.84 kW

Item Number / Tags	750@8-D-ST-HSC	Size / Stages	/
Quote number	19-02-26-MG-750@8-HSC-EDJ-ST-SPECS	Pump speed	

## Pump

Qty Description

1 *Fairbanks Nijhuis - Horizontal Splitcase 5"-1822CF*

### COS

#### Conditions of service

Flow: 750 USgpm (170 m3/h)

Pressure rated: 114 psi

Speed: 3000 rpm

Suction pressure: 0 psi

Impeller diameter: 9.625

Shutoff head: 126 psi

Elevation: 300 ft

Temperature: 77° F

Country of origin: United States

#### Fire pump configuration

##### Pump

Materials of construction: Bronze fitted with Cast Iron casing

Pump rotation: Right handed

Flange rating (Suction/Discharge): (Suction 6 / Discharge 5) 125/125 LB

Pump base: Structural steel base

Pump shaft material: Carbon Steel AISI C1045

Casing relief valve: Not required

#### Available Kits

Available Sealing Kits: None

Available Overhaul Kits: None

Available Rotating Assembly Kits: None

Available Power Frame Assembly Kits: Power Frame Assembly Kit,-,Power Frame:

#### Driver

##### Driver type

Prep Engine for Air Freight/Shipping?: No

#### Testing

##### Engineering Tests

Certified performance test is included. Is any additional testing required?: No

## Driver

Qty Description

1 **Driver**

### Driver type

Engine: Clarke JU4H-UF34 115HP 3000rpm 12V; Includes 1/2" HSC/ES FM Cooling Loop (Galvanized)

Available rated power for selected engine: 115 HP

Engine Cooling Loop (estimated): 1/2" HSC/ES FM Cooling Loop (Galvanized) (\$0.00 List)

Pressure Reducing Valve for Cooling Loop: Not Required

3yr warranty for Diesel Engine -Engine Maintenance Kit: None

#### Driver options

Water jacket heater voltage: 230 Volt

Engine battery voltage: 12 Volt DC

Engine frequency operation: 50 Hz

Engine Muffler Size: Standard

## Fire Pump Controller

Qty	Description
1	<p><b>Fire pump controller</b>  <b>Fire pump controller</b>            Fire pump controller: Tornatech GPD, 12V 50Hz - Manufacturer model number GPD-12-220-, , D4, D32A</p> <p>Engine Voltage: 12V</p> <p><b>Fire pump controller - alarm and indicators</b>            Controller voltage: 230 Volt AC            Standard LED's            AC power on            Main switch in auto            Battery 1 failure            Battery 2 failure            Charger 1 failure            Charger 2 failure            Engine low oil pressure            Engine high oil pressure            Engine overspeed            Engine run            Engine fail to start            Fail when running            Pump room alarm            Deluge valve            Weekly test            Controller trouble            Standard alarm contacts            Engine run            Engine trouble            Controller trouble            Pump room alarm</p> <p><b>Fire pump controller - additional option selections</b>            Enclosure: NEMA 2            Space heater: None            Controller Rated Temperature: Controller rated for 40°C ambient temperature            Pressure transducer: Pressure transducer and run test solenoid valve for fresh water rated for 0-500 psi (factory calibrated)            Low fuel level float switch: None            High fuel level float switch: None            Mounting: No            Pump control function: None            Float switch: None            Label language: English            Modbus            Modbus TCP/IP provision</p>

## Remote Alarm Panel

Qty	Description
1	<p><b>Remote Alarm Panel</b>  <b>Remote Alarm Panel</b>            Remote Alarm Panel: None</p>

## System Accessories

Qty	Description
1	<b>Driver</b> <b>Driver options</b> Engine Muffler Grade: Industrial Grade, 4" (Qty 1) <b>Driver Accessories</b> <b>Diesel engine</b> Fuel tank: 187 US gallon tank, 165 usable US gallons, Single Wall (per NFPA 20) with 3" emergency vent

## Weight, Freight, Boxing

Qty	Description
1	<b>Weights</b> <b>Shipping Skid Details</b> Skid weight: 0 lb (0 kg) <b>Weight</b> Approximate total weight for Qty shown Fire pump weight: 590 lb (267.62 kg) Driver weight: 1285 lb (582.87 kg) Fire pump controller weight: 250 lb (113.4 kg) Jockey pump controller weight: 0 lb (0 kg) Muffler weight: 48 lb (21.77 kg) Fuel tank weight: 320 lb (145.15 kg) Skid weight: 0 lb (0 kg) Total weight: 2493 lb (1130.81 kg) Export boxing: Not required

## Skid

Qty	Description
1	<b>Weights</b> <b>Shipping Skid Details</b> Pump and engine skid Pallet, 45" W x 123" L, Floor area per skid 38.44 sq.ft( 3.57 sq.m) Controller skid Pallet 18 " W x 39 " L, Floor area per skid 4.87 sq.ft (0.45 sq.m) Fuel tank skid Pallet 40 " W x 72 " L, Floor area per skid 20 sq.ft (1.86 sq.m) <b>Shipping comments</b> Pentair does not recommend stacking skids. Please use the estimated dimensions to calculate shipping container requirements, as floor load only. Total floor area 63.31 sq.ft ( 5.88 sq.m)

## Special

Qty	Description
1	<b>COS</b> <b>Conditions of service</b> Do you want curve HP review/adjustment?: No

## RedHot/QuickShip

Qty	Description
1	Fire Pump, Driver, and Jockey Pump shipping: Standard

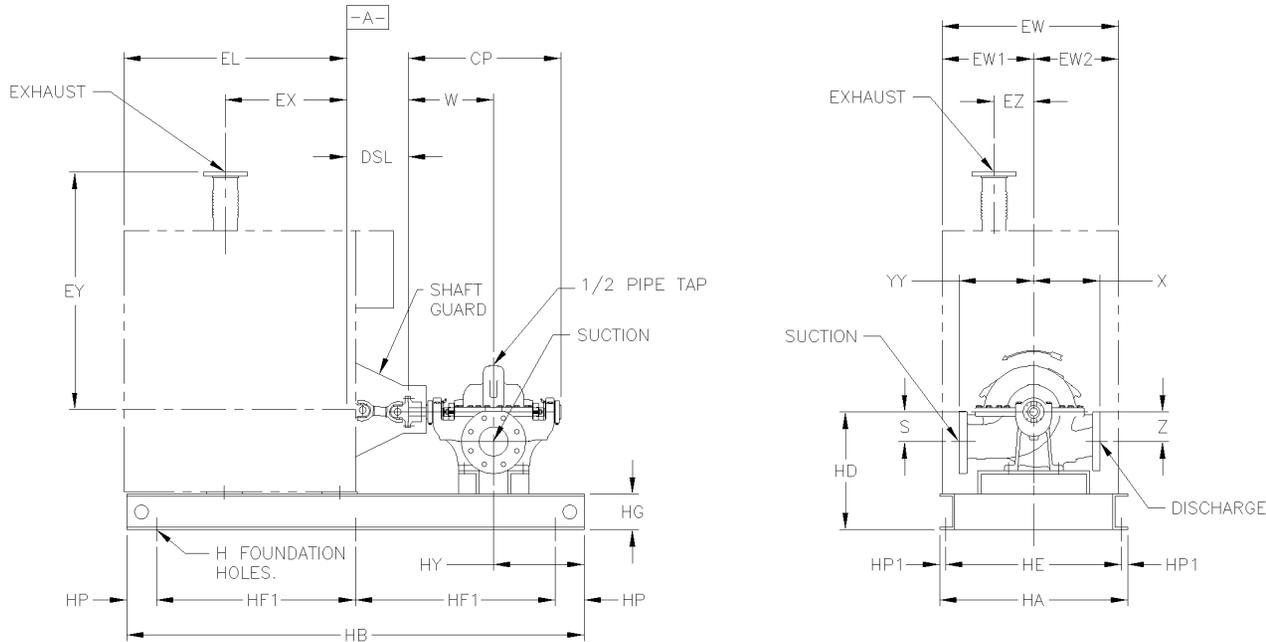
The Equipment referenced in the attached quote or proposal is specifically designed and dimensioned for, and intended only to be installed in Large Scale Fixed Installations (LSFI) as that term is defined in RoHS (EU Directive 2011/65) as such Directive may be amended from time to time.

The Buyer by placing its order warrants and represents, and shall ensure that any customer of the Buyer to whom the Buyer resells or otherwise assigns the Equipment warrants and represents, that (i) the Equipment will be solely and exclusively installed in combination with other equipment, sub-systems, apparatus and/or devices which are intended to be a part of a "large scale" installation (\*Examples of "large scale" installations may include but are not limited to installations which (a) are too large to be moved in an ISO 20 foot container because the total sum of its parts as transported is larger than 5,71m x 2,35m x 2,39m; (b) are too heavy to be moved by a 44 tonne road truck; (c) have a rated power greater than 375 kW; and/or (d) require cranes to be completely installed); (ii) the installation in which the Equipment will be utilized will be assembled, installed, and de-installed by professionals holding the requisite knowledge, experience, and licenses necessary to undertake and complete the work related to the installation; and (iii) the overall system in which the Equipment will be included will be used permanently in a pre-defined and dedicated location.

The Buyer further acknowledges and agrees that Pentair is relying on the above warranties and representations by Buyer as a material inducement to sell the Equipment to Buyer, and Buyer will defend, indemnify, and hold Pentair harmless from and against any and all claims, losses, fines, decrees, penalties, and/or causes of action arising out of or related to breach of the above warranties and representations, including but not limited to those brought by any governmental or quasi-governmental authority.

# General Arrangement

**WARNING**  
 DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



EY	EL	EX	DSL	CP	W	EW	EW1	EW2	EZ	YY	X	S
1,143	980	521	279	724	406	765	397	368	127	337	286	140

Z	HD	HG	HP	HF1	HY	HB	HP1	HE	HA	H(Holes)	H(Dia)	H(Slot)
140	508	152	127	864	356	1,981	25.40	762	813	6	25.40	50.80

**NOTES:**

**Not for construction, installation, or application purposes unless certified.**

All dimensions are in mm

Dimensions may vary  $\pm .38"$  (10mm) due to normal manufacturing tolerances.

Bases are designed to be completely filled with grout.

See configuration for estimated total weight.

For additional dimensions, refer to engine manufacturer's website.

Pump Data		
Series	Horizontal Splitcase	
Model	5"-1822CF	
Size	5x6x11C	
Flow	170.3 m3/h	
Rated Pressure	7.93 bar.g	
RPM	3000 rpm	
Rotation	Right handed	
Liquid Type	Water	
Discharge Size	127 mm	
Suction Size	152 mm	
Impeller Diameter	244 mm	
Connection Type	Flanged	
Base Type	Structural steel base	
-	-	
Pump Materials of Construction		
Pump	Bronze fitted with Cast Iron casing	
Shaft	Carbon Steel AISI C1045	
Engine Data		
Engine Model	JU4H-UF34	
Power Rated	85.76 kW	
Power Available	85.76 kW	
Speed	3000 rpm	
Tier	T1	
Manufacturer	Clarke	
Cooling Type	Heat exchanger	
Heater Voltage	230 Volt	
Muffler Type	Industrial Grade, 4" (Qty 1)	
Exhaust Connection	Threaded	
Battery Type	Lead acid	
Battery Voltage	12 Volt DC	
Site Information		
Elevation	91.44 m	
Temperature	25.00 deg C	
Estimated Weights		
Pump	267.6 kg	
Driver	582.9 kg	
Quote Information		
Customer	YAMA ES	
Customer Quote	2820122	
Job Name	750-8-EDJ-HSC-B2B	
Market	-	
	Quote Item	750@8-D-ST-HSC
	Quote Date	02 Mar 2026