

## UL Listed Fire Pump Engines

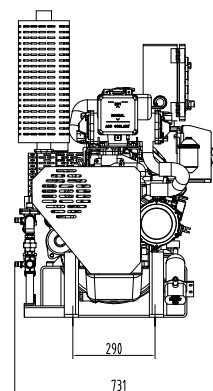
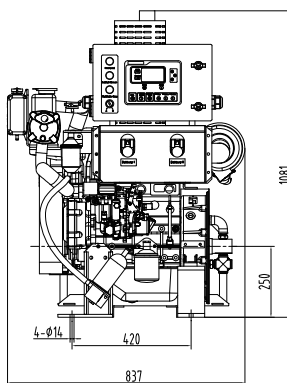
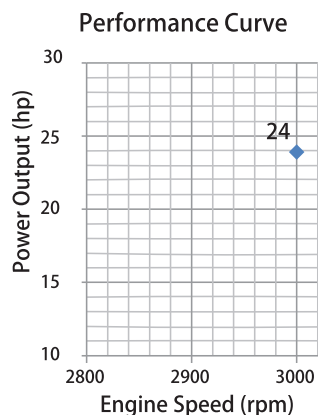
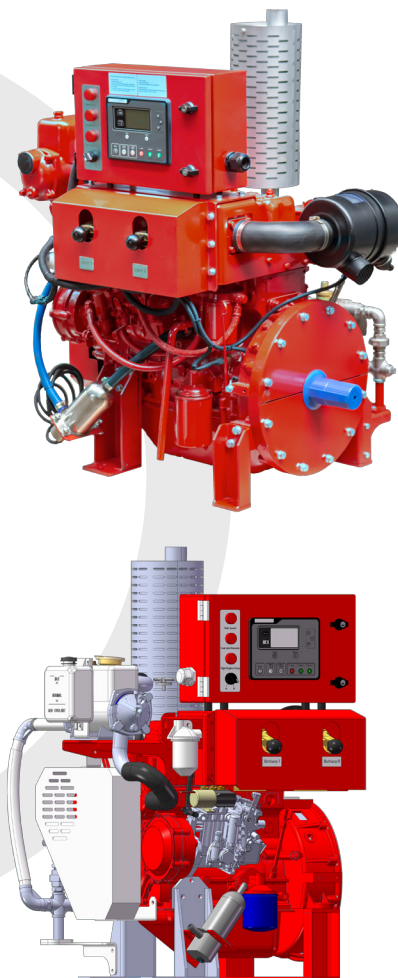
### Specification

Engine Model		380HE
Engine Type		Vertical, Water-cooling 4-stroke, direct-injection
Cooling Method		Heat Exchanger
Aspiration		Natural
Number of Cylinders		3
Bore x Stroke (mm)		80*90
Compression Ratio		18:1
Total Displacement(L)		1.357
Net Power	KW/HP	18/24
Rated Speed	r/min	3000
Rated Torque	N.m	≥63
Fuel Consumption	g/kW.h	≤242
Rotating Direction at Output End		Counter-clockwise
Lubrication Oil Standard		CD15W40
Lubrication Oil Content	L	4.5
Lubrication Method		Pressure and Splash
Starting Method		Electric 12V
PTO Type		Stub Shaft
Net Weight	kgs	262

### Engine Ratings Baselines

Engines are not to be used for continuous duty. Engines are to be used only for stationary emergency standby fire pump.

Engines are rated at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level)



## UL Listed Fire Pump Engines

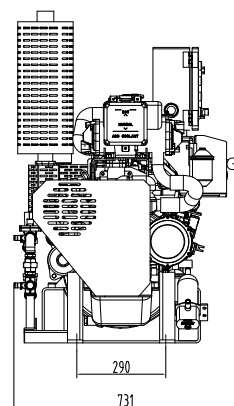
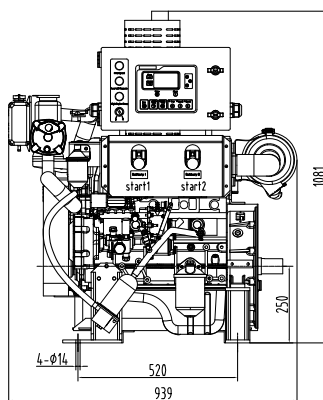
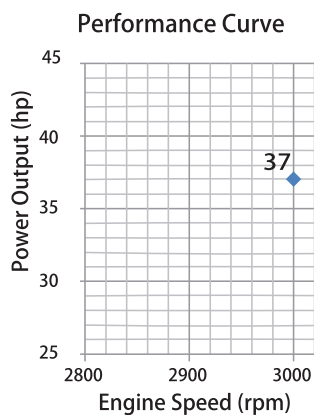
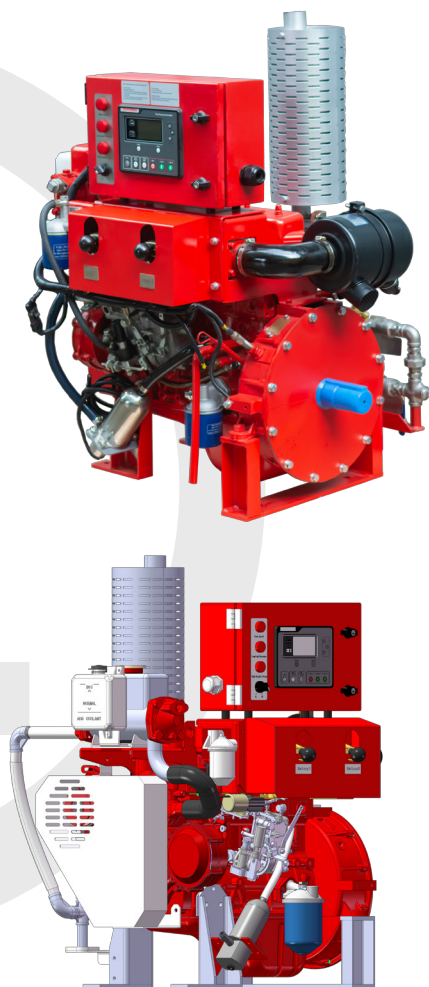
### Specification

Engine Model		480HE
Engine Type		Vertical, Water-cooling 4-stroke, direct-injection
Cooling Method		Heat Exchanger
Aspiration		Natural
Number of Cylinders		4
Bore x Stroke (mm)		80*90
Compression Ratio		18:1
Total Displacement(L)		1.809
Net Power	KW/HP	27.6/37
Rated Speed	r/min	3000
Rated Torque	N.m	≥97
Fuel Consumption	g/kW.h	≤236
Rotating Direction at Output End		Counter-clockwise
Lubrication Oil Standard		CD15W/40
Lubrication Oil Content	L	6
Lubrication Method		Pressure and Splash
Starting Method		Electric 12V
PTO Type		Stub Shaft
Net Weight	kgs	298

### Engine Ratings Baselines

Engines are not to be used for continuous duty. Engines are to be used only for stationary emergency standby fire pump.

Engines are rated at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level)



## UL Listed Fire Pump Engines

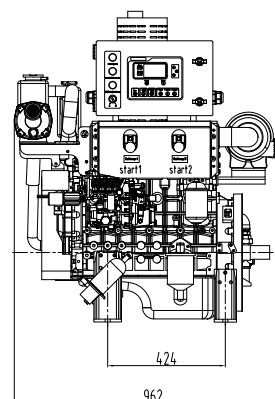
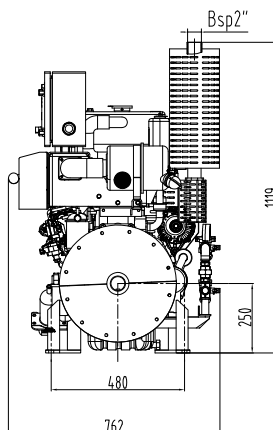
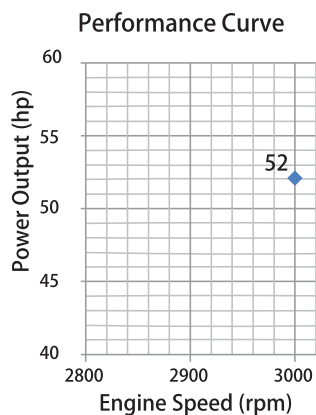
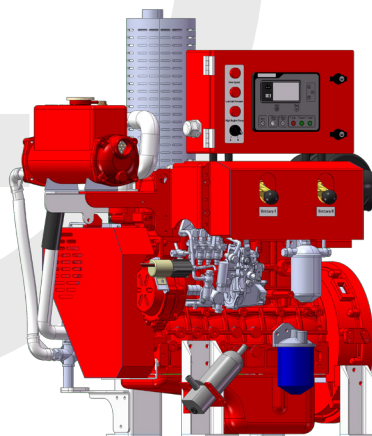
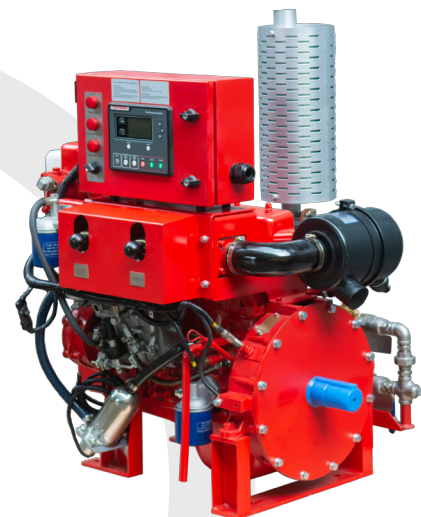
### Specification

Engine Model		490HE
Engine Type		Vertical, Water-cooling 4-stroke, direct-injection
Cooling Method		Heat Exchanger
Aspiration		Natural
Number of Cylinders		4
Bore x Stroke (mm)		90*105
Compression Ratio		18:1
Total Displacement(L)		2.67
Net Power	KW/HP	38.2/52
Rated Speed	r/min	3000
Rated Torque	N.m	≥136
Fuel Consumption	g/kW.h	≤243
Rotating Direction at Output End		Counter-clockwise
Lubrication Oil Standard		CD15W/40
Lubrication Oil Content	L	7
Lubrication Method		Pressure and Splash
Starting Method		Electric 24V
PTO Type		Stub Shaft
Net Weight	kgs	360

### Engine Ratings Baselines

Engines are not to be used for continuous duty. Engines are to be used only for stationary emergency standby fire pump.

Engines are rated at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level)



## UL Listed Fire Pump Engines

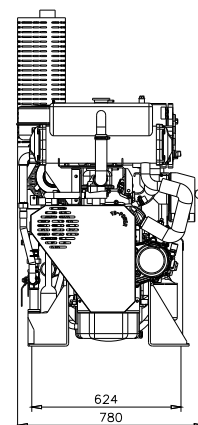
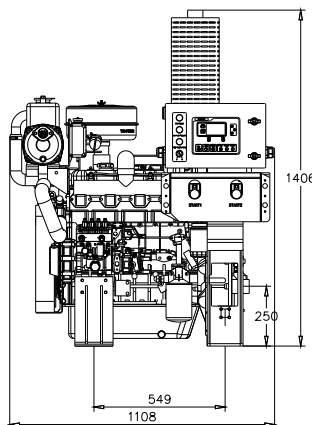
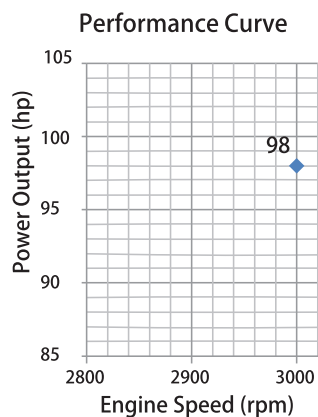
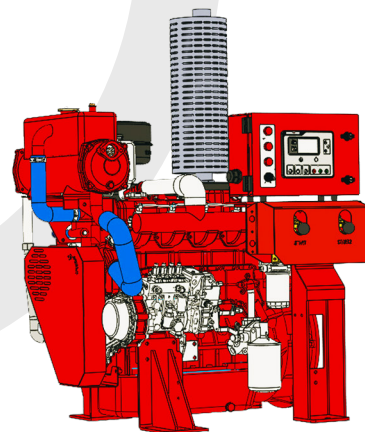
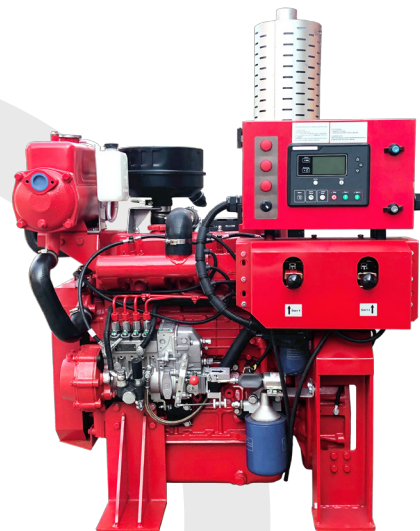
### Specification

Engine Model		4105THE
Engine Type		Vertical, Water-cooling 4-stroke, direct-injection
Cooling Method		Heat Exchanger
Aspiration		Turbo-Charged
Number of Cylinders		4
Bore x Stroke (mm)		105*118
Compression Ratio		17.5:1
Total Displacement(L)		4.085
Net Power	KW/HP	72/98
Rated Speed	r/min	3000
Rated Torque	N.m	236
Fuel Consumption	g/kW.h	≤232
Rotating Direction at Output End		Counter-clockwise
Lubrication Oil Standard		CD15W40
Lubrication Oil Content	L	11
Lubrication Method		Pressure and Splash
Starting Method		Electric 24V
PTO Type		Stub Shaft
Net Weight	kgs	470

### Engine Ratings Baselines

Engines are not to be used for continuous duty. Engines are to be used only for stationary emergency standby fire pump.

Engines are rated at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level)





## UL Listed Fire Pump Engines

### Specification

Engine Model		6102THE
Engine Type		Vertical, Water-cooling 4-stroke, direct-injection
Cooling Method		Heat Exchanger
Aspiration		Turbo-Charged
Number of Cylinders		6
Bore x Stroke (mm)		102*118
Compression Ratio		17:1
Total Displacement(L)		5.78
Net Power	KW/HP	104/142
Rated Speed	r/min	3000
Rated Torque	N.m	341
Fuel Consumption	g/kW.h	≤225
Rotating Direction at Output End		Counter-clockwise
Lubrication Oil Standard		CD15W40
Lubrication Oil Content	L	13
Lubrication Method		Pressure and Splash
Starting Method		Electric 24V
PTO Type		Stub Shaft
Net Weight	kgs	650

### Engine Ratings Baselines

Engines are not to be used for continuous duty. Engines are to be used only for stationary emergency standby fire pump.

Engines are rated at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level)

