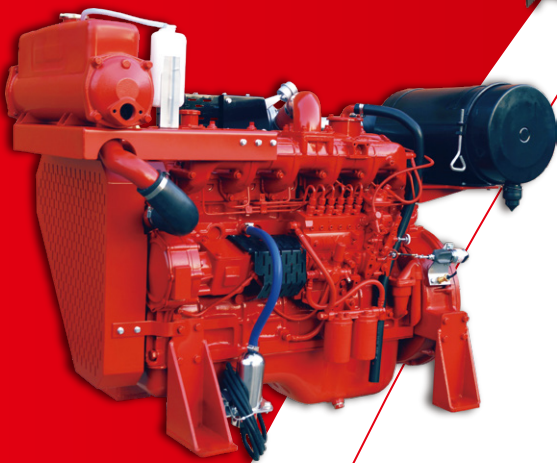
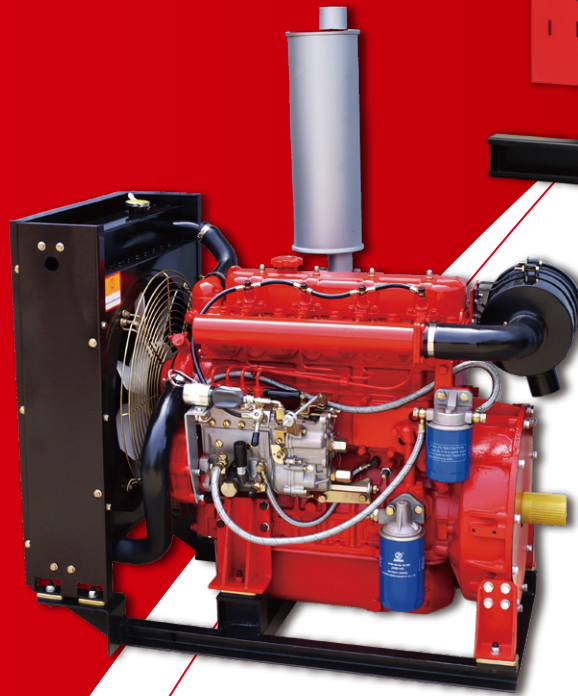
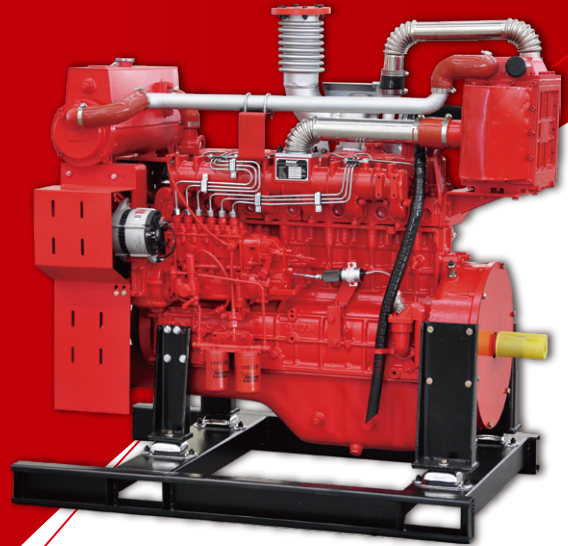


Halotop[®]

PRODUCT RANGE



RADIATOR COOLED ENGINES

Manufactured in various specifications, suitable and compatible to be coupled with fire pumps.

HEAT EXCHANGER COOLED ENGINES

Manufactured according to NFPA 20 and UL requirements.

Radiator Cooled Fire Pump Engines Technical Parameters

Model	HTDA3 HR25	HTDA4 HR36	HTDA4 HR43	HTDA4 HR52	HTDC4 HR71	HTDA4 HR78	HTDA4 HR87	HTDA4 HR95	HTDA4 HR113	HTDE6 HR121	HTDK6 HR130	HTDI6 HR160	HTDM6 HR250	HTDM6 HR330	HTDP6 LR400	HTDP6 LR450	
Type	Vertical, Water-cooling 4-stroke, direct-injection																
Aspiration	Nature								Turbo	Nature	Turbo Charger						
Number of Cylinders	3	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	
Bore x Stroke (mm)	80*90	80*90	85*95	90*105	100*118	102*118	105*118	108*118	105*118	102*118	105*125	102*118	108*132	108*132	126*155	131*160	
Compression Ratio	18:1	18:1	18:1	18:1	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1	17:1	17:1	17:1	17.5:1	17.5:1	16.5:1	16:1	
Total Displacement(L)	1.357	1.809	2.156	2.67	3.705	3.855	4.085	4.322	4.085	5.78	6.49	5.78	7.25	7.25	11.6	12.94	
Rated Power*	Kw/Hp	18/25	26/36	32/43	38/52	52/71	57/78	64/87	70/95	83/113	89/121	96/130	118/160	184/250	243/330	294/400	331/450
Rated Speed	R/min	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	1500	1500
Rated Torque	N.m	59	85	105	124	170	186	209	229	271	291	314	386	602	795	1872	2107
Fuel Consumption	G/kWh	<242	<236	<230	<243	<212	<215	<205	<205	<232	<205	<235	<225	<225	<230	<220	<228
Rotating Direction at Output End	Counter-clockwise																
Lubrication Oil Standard	CD15W40								CF-4								
Lubrication Oil Content	L	4.5	6	6	7	9.5	9.5	11	12	11	13	17	13	21	21	27	27
Lubrication Method	Pressure and Splash																
Starting Method	Electric Starter																
Net Weight	Kgs	230	250	275	320	400	400	430	450	470	630	720	650	865	875	1000	1100

* Engines are rated at 25°C (77°F) inlet air temperature and approximates 50m (164ft.)above sea level.

Heat Exchanger Cooled Fire Pump Engines Technical Parameters

Model	HTDA3 HH26	HTDA4 HH37	HTDA4 HH44	HTDA4 HH56	HTDC4 HH73	HTDA4 HH82	HTDA4 HH90	HTDA4 HH100	HTDA4 HH115	HTDE6 HH125	HTDK6 HH140	HTDI6 HH165	HTDM6 HH260	HTDM6 HH350	HTDP6 LH400	HTDP6 LH450	
Type	Vertical, Water-cooling 4-stroke, direct-injection																
Aspiration	Nature								Turbo	Nature	Turbo Charger						
Number of Cylinders	3	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	
Bore x Stroke (mm)	80*90	80*90	85*95	90*105	100*118	102*118	105*118	108*118	105*118	102*118	105*125	102*118	108*132	108*132	126*155	131*160	
Compression Ratio	18:1	18:1	18:1	18:1	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1	17:1	17:1	17:1	17.5:1	17.5:1	16.5:1	16:1	
Total Displacement(L)	1.357	1.809	2.156	2.67	3.705	3.855	4.085	4.322	4.085	5.78	6.49	5.78	7.25	7.25	11.6	12.94	
Rated Power*	Kw/Hp	19/26	27/37	32/44	41/56	54/73	60/82	66/90	74/100	85/115	92/125	103/140	121/165	191/260	257/350	294/400	331/450
Rated Speed	R/min	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	1500	1500
Rated Torque	N.m	62	88	105	134	177	196	216	242	278	301	337	396	625	841	1872	2107
Fuel Consumption	G/kWh	<242	<236	<230	<243	<212	<215	<205	<205	<232	<205	<235	<225	<225	<230	<220	<228
Rotating Direction at Output End	Counter-clockwise																
Lubrication Oil Standard	CD15W40								CF-4								
Lubrication Oil Content	L	4.5	6	6	7	9.5	9.5	11	12	11	13	17	13	21	21	27	27
Lubrication Method	Pressure and Splash																
Starting Method	Electric Starter																
Net Weight	Kgs	230	250	275	320	400	400	430	450	470	630	720	650	865	875	1000	1100

* Engines are rated at 25°C (77°F) inlet air temperature and approximates 50m (164ft.)above sea level.