



## **TF TS SERIES**

**WATER COOLED DIESEL ENGINES  
5.2-22.4 KW (7-30 HP)**



## **L-N SERIES**

**AIR COOLED DIESEL ENGINES  
3.5-7.4 KW (4.2-10 HP)**

## **YDP SERIES**

**AIR COOLED DIESEL PUMPS  
3.5-7.4 KW (4.2-10 HP)**



**YANMAR**

# SPECIFICATIONS:

## TF TS SERIES ( Water Cooled Diesel Engines)

MODEL	TF 70 L	TF 90 MLY	TF 120 M	TF 160	TS 190 R	TS 230 R	
Type							
Combustion System	direct injection						
Number of Cylinder	1						
Injection Timing	deg	bTDC 17°	bTDC 18°	bTDC 17°		bTDC 19°	
Bore x Stroke	mm	78 x 80	85 x 87	92 x 96	102 x 105	110 x 106	112 x 115
Displacement	lit.	0.382	0.493	0.638	0.857	1.007	1.132
Rated Continuous Output	hp/rpm (kW)	6.0 / 2400 (4.5)	8.5 / 2400 (6.3)	10.5 / 2400 (7.8)	14.0 / 2400 (10.4)	16.0 / 2200 (11.9)	19.0 / 2200 (14.2)
At 1-hr. rated output	hp/rpm (kW)	7.0 / 2400 (5.2)	9.5 / 2400 (7.1)	12.0 / 2400 (9.0)	16.0 / 2400 (11.9)	19.0 / 2200 (14.2)	23.0 / 2200 (17.2)
Maximum Torque	kgf.m/rpm	2.48 / 1800	3.4 / 1600	4.42 / 1800	6.17 / 1600	6.95 / 1600	7.75 / 1600
Compression Ratio		18.1	18.0	17.7	17.8	16.3	16.1
Direction of Crankshaft Rotation							
Specific Fuel Consumption	gr/ hp.h	175.0	170.0	169.0	155.0	162.0	
Fuel Injection Pump	Bosch Type						
Injection Pressure	kg/cm2	200					
Lubrication System	Forced Lubrication with Trochoid Pump and Hydraulic Regulatory Valve						
F.O. Tank Capacity	lit.	7.1	10.5	11	14.3	13.7	21.5
Lubricating Oil Capacity (oil pan)	lit.	1.8	2.2	2.8	3	3.6	6
Lubricating Oil Applicable	API Grade, CC or CD (SAE#30, 40, 50, 20W-50)						
Cooling Water System	Radiator						
Cooling Water Capacity		1.3	1.7	2.3	3.0	4.0	5.9
Starting System	Manual (hand starting) or electric starter (radiator type only)						
Dimensions (LxWxH)	mm	607.5 x 311.5 x 469	672 x 330.5 x 496	695 x 348.5 x 530	776 x 379.5 x 621	894.5 x 454.5 x 660	963.5 x 467.5 x 657
Lamp	V-W/W	12 - 25 / 25	12 - 45 / 45				
Net Weight	kg	69	89	101	140	186	203

## L-N SERIES ( Air Cooled Diesel Engines)

MODEL	L48N	L70N	L100N				
Type	4 stroke, vertical cylinder, air-cooled diesel engine						
No. of Cylinders	1						
Bore x Stroke	mm	70 x 57	78 x 67	86 x 75			
Displacement	liter	0.219	0.32	0.435			
Continuous Rated Output	Engine Speed rpm(min <sup>-1</sup> )	3600	3000	3600	3000		
	Output kW (hp)	3.1 (4.2)	2.8 (3.8)	4.4 (6.0)	4.1 (5.5)	6.6 (9.0)	5.7 (7.7)
Maximum Rated Output	Engine Speed	3600	3000	3600	3000		
	Output/ Eng. Speed	3.5 (4.7)	3.1 (4.2)	4.9 (6.7)	4.5 (6.1)	7.4 (10.0)	6.5 (8.8)
High Idling	rpm(min <sup>-1</sup> )	3800±30	3175±30	3800±30	3175±30	3800±30	3175±30
Engine Weight (Dry)	Electric Starter	kg	32.0	41.0	53.0		
	Recoil Starter	kg	27.0	36.0	48.5		
Cooling System	Forced air-cooling by flywheel fan						
Lubricating System	Forced Lubricating System						
Starting System	Electric Start / Recoil Start						
Dimensions	L x W x H	mm	332 x 384 x 417	378 x 422 x 453	412 x 472 x 494		
Lubricating System	Dipstick Upper Limit	liter	0.8	1.1	1.6		
	Dipstick Lower Limit	liter	0.6	0.7	1.0		
Fuel Oil Tank Capacity	liter	2.4	3.3	5.4			

## YDP SERIES ( Air Cooled Diesel Pumps)

MODEL	YDP20N	YDP20N-E	YDP30N	YDP30N-E	YDP40N	YDP40N-E	
PUMP	Type	Self-priming pump					
	Suc. & Discharge dia.	mm	50	80	100		
	Max. Total Head	m	32.0	28.0	26.5		
	Suction Lift	m	7				
	Max. Capacity	lit./min.	550	900	1300		
Model	kW (hp)	L48N6-PY	L48N6-PEY	L48N6-PY	L48N6-PEY	L70N6-PY	L70N6-PEY
ENGINE	Type	4 stroke, air cooled diesel engine					
	Displacement	cc	219	320			
	Max. Output	kW@ 3600 min <sup>-1</sup>	3.5	4.9			
	Cont. Output	kW@ 3600 min <sup>-1</sup>	3.1	4.4			
	Starting System		Recoil	Electric	Recoil	Electric	Recoil
Fuel Oil Tank Capacity	lit.	13					
UNIT	Dimensions (L x W x H)	mm	530 x 484 x 637			630 x 484 x 727	
	Dry Mass	kg	44	59	46	61	62

Note: All data subject to alteration without notice.

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**Manila Office:**  
905 EDSA, Brgy. Phil-Am  
Quezon City, Metro Manila  
Tel. No 1: (02) 7 822-3448  
Tel. No 2: (02) 9 952-5648  
Globe No. 0917-829-3564  
Smart No. 0999-885-9215

**Ilocos Norte Office:**  
National Hi-way,  
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**Bacolod Office:**  
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Km.7, Mc Arthur Hi-way,  
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Tel No.: (082) 293-9477  
Globe No. 0917-706-0948

**CDO Office**  
Zone 5, Tin-ao, Agusan,  
Cagayan De Oro City  
Tel No.: (088) 890-0570  
Globe No. 0917-716-2318

✉ info@allcertifiedequipment.com  
www.allcertifiedequipment.com