



CP35D1

YANMAR 35 kW CHP System Specifications

Model			CP35D1				
			CP35D1-TNUG	CP35D1Z-TNUG	CP35D1-TNUW	CP35D1Z-TNUW	
Configuration			-	Standard	Standard with Blackout Start	Radiator-Free	Radiator-Free with Blackout Start
Power Output	Rated output		kW	35	35	35	35
	Voltage, Frequency		V, Hz	208, 60	208, 60	208, 60	208, 60
	Phase and Wire		-	3 phase, 3 wire	3 phase, 3 wire ^{*3}	3 phase, 3 wire	3 phase, 3 wire ^{*3}
	Modulation		0.5 to 35 kW with optional CT/Transducer kit ^{*1}				
Fuel	Gas Type		-	Natural gas	Natural gas	Natural gas	Natural gas
	Pressure	Standard	in WC (kPa)	9.0 (2.25)	9.0 (2.25)	9.0 (2.25)	9.0 (2.25)
		Working Range	in WC (kPa)	8.0-10.0 (2.0-2.5)	8.0-10.0 (2.0-2.5)	8.0-10.0 (2.0-2.5)	8.0-10.0 (2.0-2.5)
	Consumption (LHV)		BTU (kW)	367,487 (107.7)	367,487 (107.7)	367,487 (107.7)	367,487 (107.7)
			THERMS/HR	3.67	3.67	3.67	3.67
	Consumption (HHV) ^{*2}		BTU (kW)	407,114 (119.3)	407,114 (119.3)	407,114 (119.3)	407,114 (119.3)
			THERMS/HR	4.07	4.07	4.07	4.07
Consumption (Input kW/kWe)		kW	3.08	3.08	3.08	3.08	
Heat Output (Heat Recovery)	Rated recovered heat		BTU/HR (kW)	204,040 (59.8)	204,040 (59.8)	204,040 (59.8)	204,040 (59.8)
	Rated Temp.	INLET	°F (°C)	167 (75)	167 (75)	167 (75)	167 (75)
		OUTLET	°F (°C)	176 (80) MAX 190.4 (88)	176 (80) MAX 190.4 (88)	176 (80) MAX 190.4 (88)	176 (80) MAX 190.4 (88)
	Rated Hot water Flow		GPM (L/min)	46.5 (176)	46.5 (176)	46.5 (176)	46.5 (176)
Input Power Supply	Voltage, Frequency		V, Hz	208, 60	208, 60	208, 60	208, 60
	Starting Current		A	46	46	46	46
	Rated power consumption	Radiator fan stop	kW	0.72	0.75	NA	NA
		Radiator fan run	kW	0.97	1.00	NA	NA
Gross Efficiency	Overall efficiency (LHV)		%	88.0	88.0	88.0	88.0
	Generating efficiency (LHV)		%	32.5	32.5	32.5	32.5
	Exhaust heat recovery rate (LHV)		%	55.5	55.5	55.5	55.5
Operation Noise	Radiator fan stop		dB(A)	62	62	NA	NA
	Radiator fan run			64	64	NA	NA
Dimensions	Width		in (mm)	78.7 (2000)	78.7 (2000)	78.7 (2000)	78.7 (2000)
	Depth		in (mm)	31.5 (800)	31.5 (800)	31.5 (800)	31.5 (800)
	Height		in (mm)	78.2 (1987)	78.2 (1987)	78.2 (1987)	78.2 (1987)
	Weight		lbs (kg)	3,064 (1390)	3,284 (1430)	3,064 (1390)	3,284 (1430)
Maintenance interval			hr	7500	7500	7500	7500
Standard Warranty			-	2 Years; 15,000 Hours*	2 Years; 15,000 Hours*	2 Years; 15,000 Hours*	2 Years; 15,000 Hours*
YES Product Protection			-	10 Years; 30,000 Hours*	10 Years; 30,000 Hours*	10 Years; 30,000 Hours*	10 Years; 30,000 Hours*
			-	10 years; 60,000 Hours*	10 years; 60,000 Hours*	10 years; 60,000 Hours*	10 years; 60,000 Hours*
Emissions & Certifications				EPA Certified UL2200 Certified CSAC22.2 No 14 Certified CSAC22.2 No 100 Certified UL1741/IEEE1547 Certified			

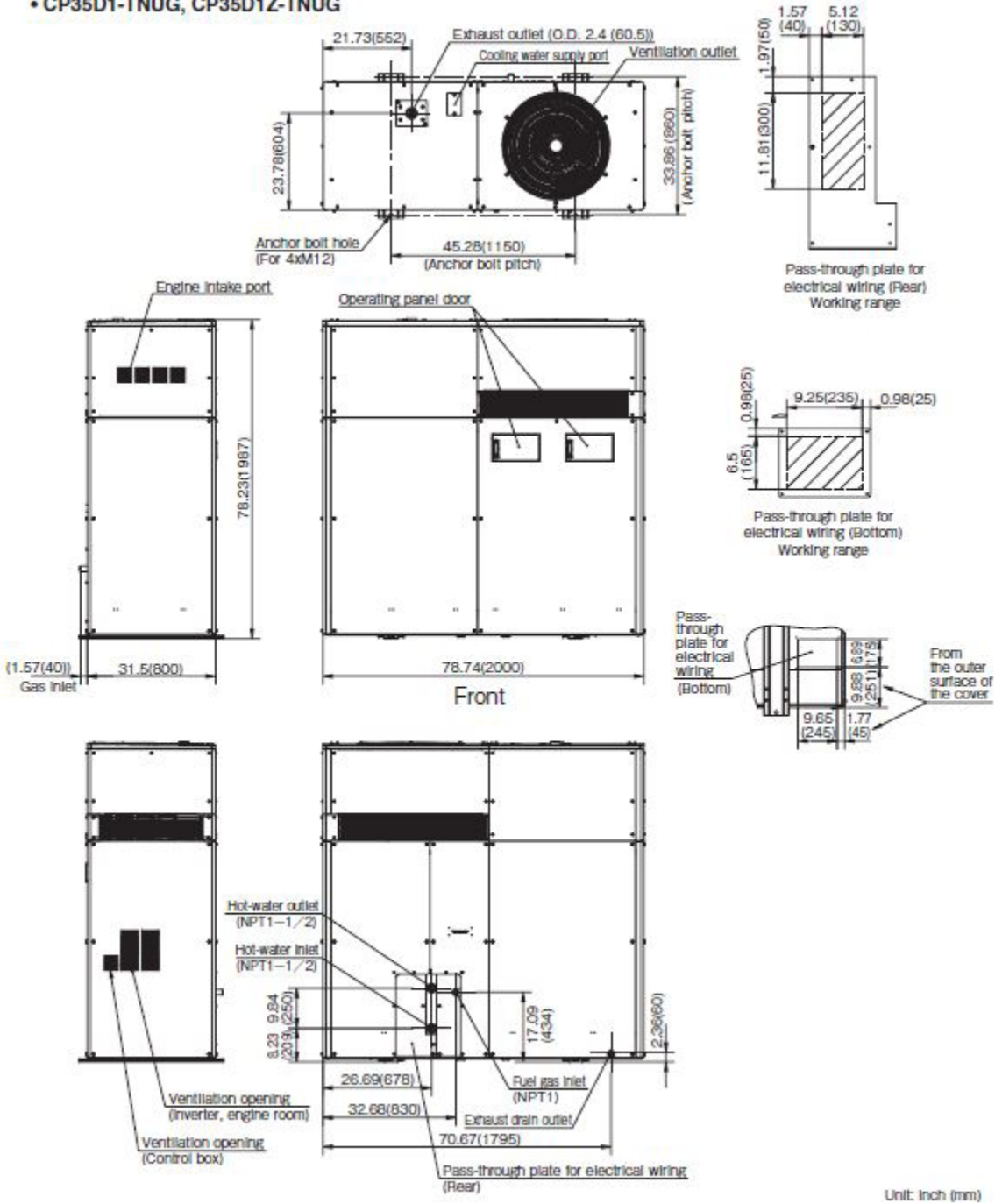
*1 The minimum modulation amount is dependent on the CT and Transducer specifications
 *2 Natural gas calculations for fuel consumption are based on converting LHV to HHV: LHV=983 BTU/scf,HHV= 1,089 BTU/scf
 *3 Transformer necessary for 120V AC power requirements.
 * Whichever comes first

NOTE: Due to YANMAR's ongoing commitment to quality, specifications, ratings and dimensions subject to change without notice. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be in accordance with current specifications, ratings and dimensions and be performed by a qualified installer and servicing agency.



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[Standard specification]
• CP35D1-TNUG, CP35D1Z-TNUG



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