C4.4

MARINE AUXILIARY ENGINE (ELECTRIC CONTROL SYSTEM)

118 ekW @ 1800 rpm (60 Hz) 99 ekW @ 1800 rpm (60 Hz) 75 ekW @ 1800 rpm (60 Hz) 65 ekW @ 1800 rpm (60 Hz) 99 ekW @ 1500 rpm (50 Hz) 80 ekW @ 1500 rpm (50 Hz) 65 ekW @ 1500 rpm (50 Hz)



C4.4 Marine Auxiliary
Image may not reflect actual product.

ENGINE SPECIFICATIONS

Configuration

In-line 4, 4-stroke-cycle diesel

Emissions

U.S. EPA Tier 3 certified, EU Stage V certified

Rated Engine Speed

1500/1800 rpm

Bore x Stroke

105 mm x 127 mm / 4.13 in x 5.0 in

Displacement

4.4 Liter 268 cu in

Aspiration

Turbocharged-aftercooled and turbo only aspiration (Turbocharged aspiration only for 65ekW (71bkW))

Governor

Electronic (A5 ECM)

Refill Capacity

Lube Oil System w/Oil filter change: 11 L 2.8 gal)

Oil Change Interval

500 hrs

Cooling

Heat exchanger, combined circuit keel cooling, or separate circuit keel cooling

Flywheel Housing

SAE No. 03 with SAE 11.5 flywheel (126 teeth)

FEATURES AND BENEFITS

- Simplicity = Reliability
- Configure the engine how you want it, package it yourself
- Compact engine profile with high power density
- Ease of repower with multiple cooling system options
 - Single circuit keel cooling
 - Separate circuit keel cooling
 - Heat exchanger
- Clean, smooth, and guiet operations
- Advanced fuel system provides excellent fuel consumption and low smoke
- Proven core engine design with millions of operating hours
- Fewer maintenance touchpoints and longer service intervals
- Global dealer network for unparalleled support

STANDARD ENGINE EQUIPMENT

- Common Rail fuel system
- Engine mounted air cleaner and expansion tank
- Gear-driven jacket-water and auxiliary water pumps
- Watercooled exhaust manifold and turbocharger
- Integral plate-type oil cooler
- 12V or 24V starter motor
- Open crankcase ventilation system
- Internal engine balancing shaft
- Engine mounted fuel and oil filters
- · Engine mounted customer interface and control relays

OPTIONAL ATTACHMENTS

- MGGP 200 Gauge Panel and interface harness
- Engine shutdown sensors and shutdown controller
- EMCP engine control panel
- Double wall high pressure fuel lines
- Exhaust elbow and bellows
- Rear mounting feet
- Jacket water heater
- Glow plugs
- Jacket water connections (keel cooled)
- S.O.SSM sample points

AUXILIARY RATING DEFINITION

All Cat® Marine Auxiliary engines and generator sets are rated for prime power for continuous electric service according to ISO 8528-1.

Hours per Year Unlimited Load Factor $\leq 70\%$ Overload Capacity +10%

maximum of 1 hour in 12 maximum of 25 hours per year



TECHNICAL DATA

C4.4 Marine Auxiliary Engine (Electric Control System)

FUEL CONSUMPTION - AUXILIARY/GENSET/DEP

Constant Speed Fuel & DEF Consumption 129 bkW (173.0 bhp) @ 1800 rpm						
	Brake Speci	Brake Specific Fuel Consumption				
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr	
100	118.0	173.0	0.356	129	216.7	
90	106.2	155.7	0.358	116	218.5	
80	94.4	138.4	0.361	103	220.0	
70	82.6	121.1	0.366	90	223.0	
60	70.8	103.8	0.373	77	227.5	
50	59.0	86.5	0.379	65	231.2	
40	47.2	69.2	0.398	52	242.5	
30	35.4	51.9	0.418	39	255.0	
• ISO 3046	6/1 fluid consum	ption tolerance	of +5%			

Constant Speed Fuel & DEF Consumption 108.6 bkW (145.6 bhp) @ 1800 rpm						
	Brake Specific Fuel Consumption					
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr	
100	99.0	145.6	0.359	108.6	219.1	
90	89.1	131.1	0.366	98	223.0	
80	79.2	116.5	0.372	87	226.8	
70	69.3	101.9	0.379	76	231.0	
60	59.4	87.4	0.386	65	235.5	
50	49.5	72.8	0.393	54	239.5	
40	39.6	58.3	0.400	43	244.0	
30	29.7	43.7	0.416	33	253.5	
• ISO 3046	ISO 3046/1 fluid consumption tolerance of +5%					

Constant Speed Fuel & DEF Consumption 81.5 bkW (109.3 bhp) @ 1800 rpm					
	Brake Specific Fuel Consumption				
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr
100	75.0	109.3	0.375	81.5	228.6
90	67.5	98.4	0.380	73	231.5
80	60.0	87.4	0.385	65	234.5
70	52.5	76.5	0.390	57	237.5
60	45.0	65.6	0.395	49	240.5
50	37.5	54.6	0.400	41	243.6
40	30.0	43.7	0.416	33	253.5
30	22.5	32.8	0.443	24	270.0
• ISO 3046	/1 fluid consum _l	otion tolerance	of +5%		

Note: Consult your local Cat dealer to create a customized engine TCO (Total Cost of Ownership) analysis specific to your vessel. Dealers (only): Please reference TMI Web for most current information.



TECHNICAL DATA

C4.4 Marine Auxiliary Engine (Electric Control System)

	Brake Specific Fuel C	Brake Specific Fuel Consumption					
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr		
100	65.0 (turbocharged aspiration)	95.3	0.405	71.1	247.0		
90	58.5	85.8	0.408	64	249.0		
80	52.0	76.3	0.412	57	251.2		
70	45.5	66.7	0.418	50	255.0		
60	39.0	57.2	0.427	43	260.4		
50	32.5	47.7	0.437	36	266.5		
40	26.0	38.1	0.448	28	272.8		
30	19.5	28.6	0.463	21	282.0		
• ISO 304	6/1 fluid consumption tolera	nce of +5%					

Constant Speed Fuel & DEF Consumption 108.6 bkW (145.6 bhp) @ 1500 rpm					
	Brake Specific Fuel Consumption				
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr
100	99.0	145.6	0.363	108.6	221.2
90	89.1	131.1	0.365	98	222.5
80	79.2	116.5	0.367	87	223.7
70	69.3	101.9	0.368	76	224.1
60	59.4	87.4	0.366	65	223.2
50	49.5	72.8	0.364	54	222.1
40	39.6	58.3	0.376	43	229.2
30	29.7	43.7	0.391	33	238.5
• ISO 3046	/1 fluid consum	otion tolerance	of +5%		

Constant Speed Fuel & DEF Consumption 86.8 bkW (116.4 bhp) @ 1500 rpm						
	Brake Speci	Brake Specific Fuel Consumption				
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr	
100	80.0	116.4	0.382	86.8	232.8	
90	72.0	104.8	0.384	78	234.0	
80	64.0	93.1	0.386	69	235.5	
70	56.0	81.5	0.387	61	236.0	
60	48.0	69.8	0.385	52	234.7	
50	40.0	58.2	0.383	43	233.7	
40	32.0	46.6	0.394	35	240.2	
30	24.0	34.9	0.411	26	250.5	
• ISO 3046	ISO 3046/1 fluid consumption tolerance of +5%					

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TECHNICAL DATA

C4.4 Marine Auxiliary Engine (Electric Control System)

	Brake Specific Fuel C	Brake Specific Fuel Consumption					
%Power	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr		
100	65.0 (turbocharged aspiration)	95.3	0.424	71.1	258.6		
90	58.5	85.8	0.430	64	262.0		
80	52.0	76.3	0.435	57	265.3		
70	45.5	66.7	0.439	50	267.5		
60	39.0	57.2	0.440	43	268.0		
50	32.5	47.7	0.441	36	269.0		
40	26.0	38.1	0.447	28	272.5		
30	19.5	28.6	0.459	21	280.0		

DIMENSIONS & WEIGHT

	Length (1)	Height (2)	Width (3)	Engine dry weight
min.	33.7 in / 856 mm	40.9 in / 1038 mm	30.6 in / 778 mm	1200 lb / 544 kg
max.	33.7 in / 856 mm	40.9 in / 1038 mm	32.0 in / 814 mm	1278 lb /5791 kg

Note: Do not use these dimensions for installation design. See general dimension drawings for detail.

