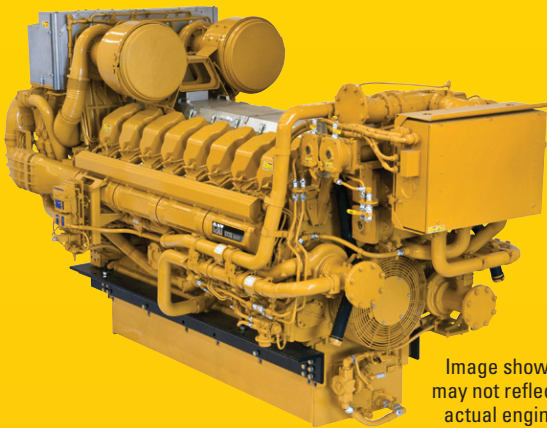


C175-16



MARINE PROPULSION ENGINE

2721 mhp	(2683 bhp)	2001 bkW
2832 mhp	(2792 bhp)	2082 bkW
2948 mhp	(2907 bhp)	2168 bkW



SPECIFICATIONS

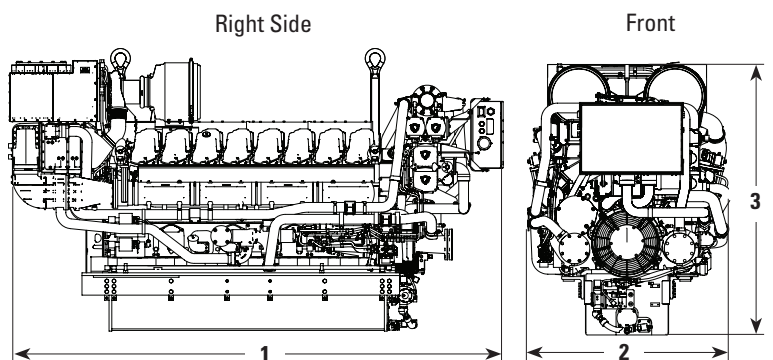
V-16, 4-Stroke-Cycle-Diesel

- IMO II Compliant
- 84.67 liter (5166.88 m³) displacement
- 1600 rpm rated engine speed
- 175 mm (6.9 in) bore x 220 mm (8.6 in) stroke
- Turbocharged and aftercooled aspiration
- Keel/heat exchanger cooled
- 1000 hour oil change interval
- SAE No. 00 flywheel and flywheel housing

STANDARD ENGINE EQUIPMENT

- Corrosion-resistant separate circuit aftercooler
- Common rail fuel system
- Four-micron rated fuel filters with service indicators
- Duplex oil and fuel filters with service indicators
- Dual turbochargers
- Ledge rail engine mounts
- Cat A4 electronic control unit (ECU)
- Top mounted dual crankcase breathers
- Deep sump oil pan
- Integral oil cooler
- Gear-driven jacket water and SCAC pumps
- Air cleaners with service indicator
- Rigid wiring harness
- Dry gas-tight exhaust manifolds with thermo-laminated heat shields
- Vertical or horizontal single exhaust outlets

DIMENSIONS & WEIGHT



ENGINE DIMENSIONS & WEIGHT

(1) Overall Length	4515 mm	177.8 in
(2) Overall Width	1857 mm	73.1 in
(3) Overall Height	2478 mm	97.6 in
Weight, Net Dry (approx)	13 041 kg	28,750 lb

Note: Do not use these dimensions for installation design.

MARINE ENGINE PERFORMANCE

Max Power

A Rating 2001 bkW @ 1600 rpm - (DM8834-03)

rpm	bhp	g/hr	bkW	g/bkW-hr
1600	2683	132.7	2001	210.6
1400	2683	127.5	2001	202.4
1200	1899	88.5	1416	198.4
1000	1263	61.9	942	208.8
800	798	41.2	595	219.9
600	484	25.6	361	224.8

Prop Demand

A Rating 2001 bkW @ 1600 rpm - (DM8834-03)

rpm	bhp	g/hr	bkW	g/bkW-hr
1600	2683	132.7	2001	210.6
1400	1798	91.3	1341	216.2
1200	1132	60.4	844	227.2
1000	655	36.0	489	234.2
800	335	19.1	250	242.9
600	142	8.9	106	267.9

Max Power

A Rating 2082 bkW @ 1600 rpm - (DM8833-03)

rpm	bhp	g/hr	bkW	g/bkW-hr
1600	2792	138.3	2082	210.9
1400	2792	132.8	2082	202.6
1200	1899	88.5	1416	198.4
1000	1263	61.9	942	208.8
800	798	41.2	595	219.9
600	484	25.6	361	224.8

Prop Demand

A Rating 2082 bkW @ 1600 rpm - (DM8833-03)

rpm	bhp	g/hr	bkW	g/bkW-hr
1600	2792	138.3	2082	210.9
1400	1870	93.2	1395	212.1
1200	1178	62.0	878	224.2
1000	682	37.6	508	234.8
800	349	19.8	260	241.4
600	147	9.1	110	262.2

Max Power

B Rating 2168 bkW @ 1600 rpm - (DM8832-03)

rpm	bhp	g/hr	bkW	g/bkW-hr
1600	2907	144.4	2168	211.5
1400	2907	138.4	2168	202.7
1200	1899	88.5	1416	198.4
1000	1263	61.9	942	208.8
800	798	41.2	595	219.9
600	484	25.6	361	224.8

Prop Demand

B Rating 2168 bkW @ 1600 rpm - (DM8832-03)

rpm	bhp	g/hr	bkW	g/bkW-hr
1600	2907	144.4	2168	211.5
1400	1948	95.3	1452	208.4
1200	1227	63.7	915	221.2
1000	710	39.2	529	235.4
800	363	20.5	271	239.9
600	153	9.3	114	257.4

RATING DEFINITIONS AND CONDITIONS

A Rating (Unrestricted Continuous)

Typical applications: For vessels operating at rated load and rated speed up to 100% of the time and without interruption or load cycling (80% to 100% load factor). Typical applications could include but are not limited to freighters, tugboats, bottom trawlers, or deep river tugboats. Typical operation ranges from 5000 to 8000 hours per year.

B Rating (Heavy Duty)

Typical applications: For vessels operating at rated load and rated speed up to 80% of the time with some load cycling (40% to 80% load factor). Typical applications could include but are not limited to mid-water trawlers, purse seiners, crew and supply boats, ferries, or towboats. Typical operation ranges from 3000 to 5000 hours per year.

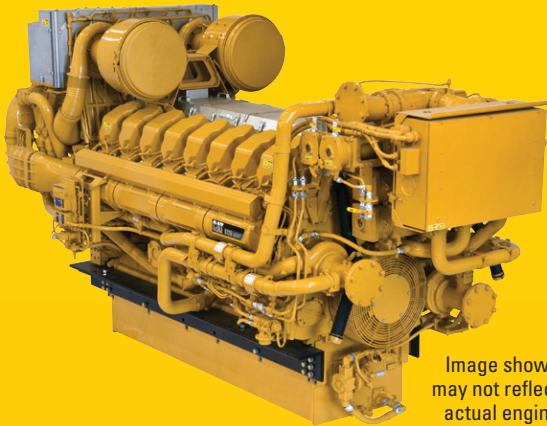
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C175-16



MARINE PROPULSION ENGINE

3045 mhp	(3003 bhp)	2239 kW
3302 mhp	(3256 bhp)	2428 kW
3468 mhp	(3420 bhp)	2550 kW



SPECIFICATIONS

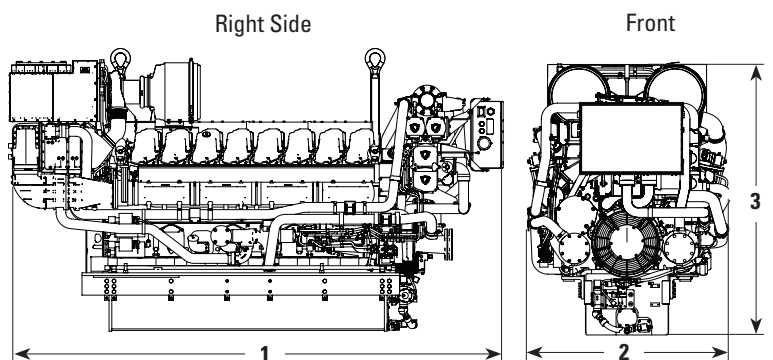
V-16, 4-Stroke-Cycle-Diesel

- IMO II Compliant
- 84.67 liter (5166.88 m³) displacement
- 1800 rpm rated engine speed
- 175 mm (6.9 in) bore x 220 mm (8.6 in) stroke
- Turbocharged and aftercooled aspiration
- Keel/heat exchanger cooled
- 1000 hour oil change interval
- SAE No. 00 flywheel and flywheel housing

STANDARD ENGINE EQUIPMENT

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ENGINE DIMENSIONS & WEIGHT

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(3) Overall Height	2478 mm	97.6 in
Weight, Net Dry (approx)	13 041 kg	28,750 lb

Note: Do not use these dimensions for installation design.

MARINE ENGINE PERFORMANCE

Max Power

A Rating 2239 bkW @ 1800 rpm - (DM8752)

rpm	bhp	g/hr	bkW	g/bkW-hr
1800	3003	143.9	2239	204.1
1600	3003	141.4	2239	200.5
1400	3003	141.1	2239	200.6
1200	1526	75.6	1138	210.9
1000	798	40.9	595	218.6
800	495	25.4	369	218.7
600	371	19.5	277	223.7

Prop Demand

A Rating 2239 bkW @ 1800 rpm - (DM8752)

rpm	bhp	g/hr	bkW	g/bkW-hr
1800	3003	143.9	2239	204.1
1600	2109	106.7	1573	215.5
1400	1413	83.2	1053	250.9
1200	890	48.2	663	230.6
1000	515	27.5	384	227.3
800	264	14.9	197	241.0
600	111	7.3	82.9	279.8

Max Power

A Rating 2428 bkW @ 1800 rpm - (DM8751)

rpm	bhp	g/hr	bkW	g/bkW-hr
1800	3256	156.2	2428	204.3
1600	3256	153.4	2428	200.6
1400	3256	152.7	2428	199.7
1200	1526	75.6	1138	210.9
1000	865	44.4	645	218.4
800	485	25.4	369	218.7
600	371	19.5	277	223.7

Prop Demand

A Rating 2428 bkW @ 1800 rpm - (DM8751)

rpm	bhp	g/hr	bkW	g/bkW-hr
1800	3256	156.2	2428	204.3
1600	2287	112.2	1705	209.0
1400	1532	88.3	1142	245.5
1200	965	51.9	719	229.2
1000	558	29.5	416	224.8
800	286	15.9	213	236.5
600	121	7.7	89.9	272.5

Max Power

B Rating 2550 bkW @ 1800 rpm - (DM8749)

rpm	bhp	g/hr	bkW	g/bkW-hr
1800	3420	167.9	2550	209.1
1600	3420	160.9	2550	200.3
1400	3420	160.0	2550	199.2
1200	1570	77.6	1171	210.4
1000	909	46.7	678	218.6
800	495	25.4	369	218.7
600	371	19.5	277	223.7

Prop Demand

B Rating 2550 bkW @ 1800 rpm - (DM8749)

rpm	bhp	g/hr	bkW	g/bkW-hr
1800	3420	167.9	2550	209.1
1600	2402	116.2	1791	206.0
1400	1609	90.6	1200	239.9
1200	1013	54.1	756	227.4
1000	586	30.8	437	223.0
800	300	16.5	224	234.0
600	127	8.0	94.4	268.5

RATING DEFINITIONS AND CONDITIONS

A Rating (Unrestricted Continuous)

Typical applications: For vessels operating at rated load and rated speed up to 100% of the time and without interruption or load cycling (80% to 100% load factor). Typical applications could include but are not limited to freighters, tugboats, bottom trawlers, or deep river tugboats. Typical operation ranges from 5000 to 8000 hours per year.

B Rating (Heavy Duty)

Typical applications: For vessels operating at rated load and rated speed up to 80% of the time with some load cycling (40% to 80% load factor). Typical applications could include but are not limited to mid-water trawlers, purse seiners, crew and supply boats, ferries, or towboats. Typical operation ranges from 3000 to 5000 hours per year.

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