



CZM Marine Sanitation Device

34-11,250 Gallons Per Day (0.128-45.5 m³/Day)



FEATURES

- Reliable proven process
- Dual Certified USCG and IMO 159.55
- Unitary construction with lifting eyes
- Ultra low maintenance
- Low odor
- Minimal Sludge Production

CONTROLS

- Relay logic controls
- Single button operation
- Chlorine tablet low indicator
- Odor control and bacteria auto-feed system
- Motor starters included
- Common alarm output

INSTRUMENTS

- High level alarm with beacon
- Chlorine tablet low alarm
- Odor control low level alarm
- Blower run light
- Power on light
- Overboard pump run light
- Lamp test function
- Blower HOA switch

MATERIALS OF CONSTRUCTION

- Tank A36 steel (C Option)
- Internal Piping: Schedule 80, CPVC
- Blower piping 316SS

- Overboard pump: Bronze
- Electrical Enclosure: Polycarbonate

DOCUMENTATION

- Operation and Maintenance Manual
- General Arrangement Drawing
- Plumbing and Instrumentation Diagram
- Wiring Diagram
- Weight and Center of Gravity

AVAILABLE OPTIONS

- 316 Stainless Steel unit (S)
- Conventional open top unit (CO)
- Redundant pumps and blowers
- Explosion proof C1D2 or Zone 2
- IMO de-chlorination (DC)
- Grey water bypass kit (GW)
- Vacuum collection system
- Lift station

ELECTRICAL OPTIONS (50/60HZ)

- 115V 1 phase
- 230V 1 phase
- 230V 3 phase
- 460V 3 phase
- Others on request

PAINT OPTIONS

- Exterior (2-Part 2C, 3-Part 3C epoxy)
- Interior (Coal Tar CT, Phenoline F)
- Paint: 3-Part Carboline marine system



MODEL	CZM-00034	CZM-00076	CZM-00112	CZM-00182	CZM-00240
Hydraulic Loading GPD	34	76	112	182	240
M3/Day	0.13	0.29	0.42	0.69	0.91
Organic Loading LBS/Day	0.59	1.19	2.38	3.57	4.76
Kg/Day	0.27	0.54	1.08	1.62	2.16
Persons USCG Black/Black&Gray	3/1	7/2	11/3	18/6	24/8
Persons IMO Black/Black&Gray	2/0	5/1	7/2	12/4	16/5
USCG/IMO Certificate Number	159.015/10040/0	159.015/10041/0	159.015/10042/0	159.015/10043/0	159.015/10044/0
Pumps and Motors					
Blower Model	CZ-BLWRS025-1	CZ-BLWRS05-1	CZ-BLWRS05-1	CZ-BLWRS15-1	CZ-BLWRS15-1
Blower Type	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative
Quantity	1	1	1	1	1
Motor Power	.25	.50	.50	1.50	1.50
Design Flow Rate (SCFM)	40	60	60	52	52
Design Pressure (TDH)	40	44	44	108	108
Discharge Pump Model	CZ-DISCHARGE1	CZ-DISCHARGE1	CZ-DISCHARGE1	CZ-DISCHARGE1	CZ-DISCHARGE1
Quantity	1	1	1	1	1
Material	Bronze	Bronze	Bronze	Bronze	Bronze
Motor Power	.50	.50	.50	.50	.50
Pressure Rating	22	22	22	22	22
Installation and Utility Requirements					
Inlet	3"	3"	3"	3"	3"
Outlet	1.50"	1.50"	1.50"	1.50"	1.50"
Vent	2"	3"	3"	3"	3"
Power	115/208-230 1PH 50/60 Hz	115/208-230 1PH 50/60 Hz	115/208-230 1PH 50/60 Hz	115/208-230 1PH 50/60 Hz	115/208-230 1PH 50/60 Hz
Size and Weight					
Dimensions (L x W x H)	58"x 30"x 48"	73"x 29"x 53"	79"x 31"x 53"	95"x 37"x 58"	95"x 41"x 68"
Weight (DRY)	600	700	900	1100	1300
Weight (OPERATING)	1017	1659	2342	3451	4352



MODEL	CZM-00360	CZM-00575	CZM-00750	CZM-01125	CZM-01546
Hydraulic Loading GPD	360	575	750	1125	1546
M3/Day	1.36	2.18	2.84	4.25	5.85
Organic Loading LBS/Day	7.14	11.30	14.88	22.22	30.64
Kg/Day	3.24	5.13	6.75	10.08	13.90
Persons USCG Black/Black&Gray	36/12	57/19	75/25	112/37	154/51
Persons IMO Black/Black&Gray	24/8	38/12	50/16	75/25	103/34
USCG/ IMO Certificate Number	159.015/10045/0	159.015/10046/0	159.015/10047/0	159.015/10048/0	159.015/10049/0
Pumps and Motors					
Blower Model	CZ-BLWRS15-1	CZ-BLWRS25-3	CZ-BLWRS25-3	CZ-BLWRS25-3	CZ-BLWRS40-3
Blower Type	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative
Quantity	1	1	1	1	1
Motor Power	1.50	2.50	2.50	2.50	4.00
Design Flow Rate (SCFM)	52	160	160	160	210
Design Pressure (TDH)	108	76	76	76	94
Discharge Pump Model	CZ-DISCHARGE1	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2
Quantity	1	1	1	1	1
Material	Bronze	Bronze	Bronze	Bronze	Bronze
Motor Power	.50	.75	.75	.75	.75
Pressure Rating	22	22	22	22	22
Installation and Utility Requirements					
Inlet	3"	3"	3"	3"	3"
Outlet	1.50"	1.50", 3"	1.50", 3"	1.50", 3"	1.50", 3"
Vent	2"	3"	3"	3"	3"
Power	115/208-230 1PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz
Size and Weight					
Dimensions (L x W x H)	101"x 44"x 72"	93"x 57"x 85"	112"x 56"x 84"	142"x 56"x 84"	154"x 69"x 84"
Weight (DRY)	1550	2848	3269	3833	4638
Weight (OPERATING)	5928	10484	12481	16103	21839



MODEL	CZM-02026	CZM-02500	CZM-03000	CZM-03500	CZM-04000
Hydraulic Loading GPD	2026	2500	3000	3500	4000
M3/Day	7.67	9.46	11.36	13.24	15.14
Organic Loading LBS/Day	40.12	49.60	59.52	69.44	79.36
Kg/Day	18.20	22.50	27.00	31.50	36.00
Persons USCG Black/Black&Gray	202/67	250/83	300/100	350/116	400/133
Persons IMO Black/Black&Gray	135/45	166/55	200/66	233/77	266/88
USCG/MO Certificate Number	159.015/10050/0	159.015/10051/0	159.015/10052/0	159.015/10053/0	159.015/10139/0
Pumps and Motors					
Blower Model	CZ-BLWRS40-3	CZ-BLWRS40-3	CZ-BLWRS40-3	CZ-BLWRS50-3	CZ-BLWRS50-3
Blower Type	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative
Quantity	1	1	1	1	1
Motor Power	4.0	4.0	4.0	5.0	5.0
Design Flow Rate (SCFM)	210	210	210	262	262
Design Pressure (TDH)	94	94	94	88	88
Discharge Pump Model	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2
Quantity	1	1	1	1	1
Material	Bronze	Bronze	Bronze	Bronze	Bronze
Motor Power	.75	.75	.75	.75	.75
Pressure Rating	22	22	22	22	22
Installation and Utility Requirements					
Inlet	3"	3"	3"	3"	3"
Outlet	1.50", 3"	1.50", 3"	1.50", 3"	1.50", 3"	1.50", 3"
Vent	3"	3"	3"	3"	3"
Power	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz
Size and Weight					
Dimensions (L x W x H)	166"x 92"x 84"	190"x 93"x 82"	158"x 105"x 105"	174"x 97"x 107"	VARIES
Weight (DRY)	5472	6004	7254	7720	VARIES
Weight (OPERATING)	28545	31512	44915	50361	VARIES



MODEL	CZM-04500	CZM-05000	CZM-05500	CZM-06000	CZM-07500
Hydraulic Loading GPD	4500	5000	5500	6000	7500
M3/Day	17.03	18.93	20.82	22.71	28.39
Organic Loading LBS/Day	88.89	98.76	108.64	118.52	148.81
Kg/Day	40.32	44.80	49.28	53.76	67.50
Persons USCG Black/Black&Gray	450/150	500/166	550/183	600/200	750/250
Persons IMO Black/Black&Gray	300/100	333/111	366/122	400/133	500/166
USCG/IMO Certificate Number	159.015/10143/0	159.015/10144/0	159.015/10145/0	159.015/10146/0	159.015/10140/0
Pumps and Motors					
Blower Model	CZ-BLWRS50-3	CZ-BLWRS	CZ-BLWRS	CZ-BLWRS	CZ-BLWRS
Blower Type	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative
Quantity	1	1	1	1	1
Motor Power	5.0				
Design Flow Rate (SCFM)	262				
Design Pressure (TDH)	88				
Discharge Pump Model	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2	CZ-DISCHARGE2
Quantity	1	1	1	1	1
Material	Bronze	Bronze	Bronze	Bronze	Bronze
Motor Power	.75	.75	.75	.75	.75
Pressure Rating	22	22	22	22	22
Installation and Utility Requirements					
Inlet	4"	4"	4"	4"	4"
Outlet	1.50", 3"	1.50", 3"	1.50", 3"	1.50", 3"	1.50", 3"
Vent	4"	4"	4"	4"	4"
Power	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz	230/460 3PH 50/60 Hz
Size and Weight					
Dimensions (L x W x H)	VARIES	VARIES	VARIES	VARIES	VARIES
Weight (DRY)	VARIES	VARIES	VARIES	VARIES	VARIES
Weight (OPERATING)	VARIES	VARIES	VARIES	VARIES	VARIES



MODEL	CZM-09000	CZM-11250			
Hydraulic Loading GPD	9000	11250			
M3/Day	34.07	42.58			
Organic Loading LBS/Day	178.57	222.22			
Kg/Day	81.00	100.80			
Persons USCG Black/Black&Gray	900/300	1125/375			
Persons IMO Black/Black&Gray	600/200	750/250			
IMO Certificate Number	159.015/10141/0	159.015/10142/0			
USCG Certificate Number	159.015/10141/0	159.015/10142/0			
Pumps and Motors					
Blower Model					
Blower Type	Regenerative	Regenerative			
Quantity	1	1			
Motor Power					
Design Flow Rate (SCFM)					
Design Pressure (TDH)					
Discharge Pump Model	CZ-DISCHARGE2	CZ-DISCHARGE2			
Quantity	1	1			
Material	Bronze	Bronze			
Motor Power	.75	.75			
Pressure Rating	22	22			
Installation and Utility Requirements					
Inlet	4"	4"			
Outlet	1.50", 3"	1.50", 3"			
Vent	4"	4"			
Power					
Size and Weight					
Dimensions (L x W x H)	VARIES	VARIES	VARIES	VARIES	VARIES
Weight (DRY)	VARIES	VARIES	VARIES	VARIES	VARIES
Weight (OPERATING)	VARIES	VARIES	VARIES	VARIES	VARIES