

# MCG Low-Profile Series Modular Chillers

## Space-Saving Chiller Design



Marine Air MCG Low-Profile Chillers are designed for locations onboard where height is an obstacle. At a height of only 18.25 in. (464 mm) for 3- to 6-ton models and 25.2 in. (640 mm) for 12.5- and 15-ton models, MCGLP units are much shorter than other chillers in the same capacity range, but no shorter on performance and reliability.

MCGLP chillers provide reverse-cycle cooling and heating and are available in capacities from 36,000 to 180,000 BTU/hr (3 to 15 tons). Individual modules can be staged for larger capacities. The MCGLP series uses R-410A environmentally safe refrigerant, which has exceptional thermodynamic properties and maximizes system efficiency.



MCG low-profile modules are available in capacities up to 15-tons and can be staged for higher capacities.

### Key Benefits

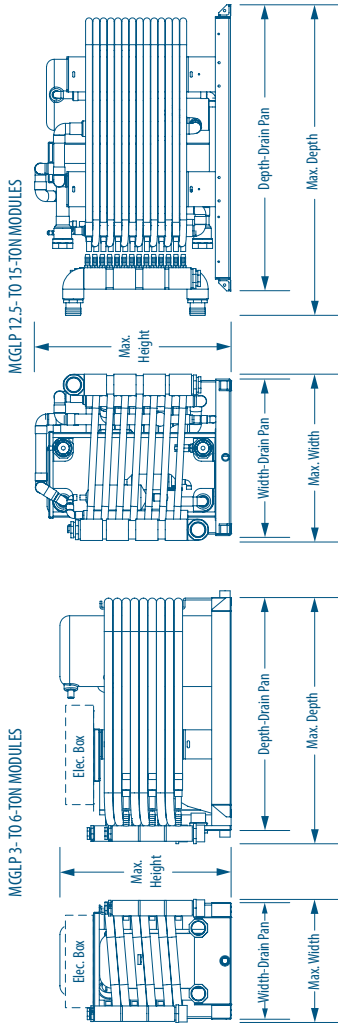
- Fits into height-restrictive spaces.
- Reverse-cycle heating.
- Stainless-steel drain pan on 36,000 - 72,000 BTU/hr models.
- Lightweight painted aluminum drain pan on 150,000 - 180,000 BTU/hr models.
- Up to six modules can be multiplexed for larger capacities.
- Up to 25% more condenser area than similar units.
- Spiral-fluted cupronickel condenser coil provides maximum heat transfer and corrosion resistance.
- Engineered to maximize the performance of R-410A, an environmentally safe refrigerant.
- Electrical box can be remotely mounted up to 6 ft. (1.8 m).
- Removable PVC water headers resist corrosion and erosion.
- Expansion valve modulates refrigerant for improved performance.
- Hot-gas bypass to provide heating in cold seawater conditions (36,000 - 72,000 BTU/hr models).
- Charged, tested, and leak checked at the factory.
- Meets or exceeds all applicable standards and regulation.
- Charge Guard protection provides sealed access ports, ensuring environmental protection and chiller module integrity.

Specifications for MCG Low-Profile Series Modular Chillers

Model <sup>(1)</sup>	MCGVLP36				MCGVLP48				MCGVLP60				MCGVLP72				MCGVLP150				MCGVLP180			
	36000	460	230	220	48000	460	230	220	60000	460	230	220	72000	460	230	220	150000	460	230	220	180000	460	230	220
Capacity (BTU/h)	36000	460	230	220	48000	460	230	220	60000	460	230	220	72000	460	230	220	150000	460	230	220	180000	460	230	220
Voltage (V)	230	230	230	220	230	230	230	220	230	230	230	220	230	230	230	220	230	230	230	220	230	230	230	220
Cycle (Hz/Phase (Ph))	60/1	50/1	60/3	50/1	60/1	60/3	50/3	50/1	60/1	60/3	50/3	50/1	60/1	60/3	50/3	50/1	60/1	60/3	50/3	50/1	60/1	60/3	50/3	50/1
Full Load Amps (FLA) Cool (A)	12.9	8.3	13.8	14.7	11.3	5.8	5.2	17.8	11.3	8.3	5.9	20.1	14.2	10.1	7.1	30.6	19.9	15.1	38.3	24.1	20.2	15.1	38.3	24.1
Full Load Amps (FLA) Heat (A)	16.8	18	10.9	5	20.2	21.4	14	7.6	6.6	10.8	7.4	29.3	17.9	13.3	8.9	38.9	24.5	19.3	50	29.9	25	19.3	50	29.9
Loaded Rotor Amps (LRA) (A)	105	102.5	95	45	150	130	120	70	145	130	123	87	145	160	100	87	304	197	147	351	239	197	147	351
Max. Circuit Breaker (A)	77	75	50	23	85	90	58	33	30	42	33	60	94	81	42	60	144	86	67	168	114	86	67	168
Min. Circuit Ampacity (A)	43	41	27	12	48	50	33	19	17	24	19	34	53	45	24	34	80	49	38	94	64	49	38	94
Refrigerant Type	R410A				R410A				R410A				R410A				R410A							
Max. Height (in/mm) <sup>(2)</sup>	18.25/464				18.25/464				18.25/464				18.25/464				25.2/641							
Width-Drain Pan (in/mm) <sup>(2)</sup>	12/305				12/305				12/305				12/305				20.13/512							
Max. Width (in/mm) <sup>(2)</sup>	12.69/323				12.69/323				12.69/323				12.69/323				21.5/547							
Depth-Drain Pan (in/mm) <sup>(2)</sup>	24/610				24/610				24/610				24/610				36.75/934							
Max. Depth (in/mm) <sup>(2)</sup>	25.38/645				25.38/645				25.38/645				25.38/645				40.03/1017							
Seawater Inlet Connection (in/mm)	1/26				1/26				1/26				1/26				2/51							
Chilled Water Connection Size (in)	1				1				1 1/4				1 1/4				2							
Height-Electrical Box (in/mm)	11/280				11/280				11/280				11/280				13.3/338							
Width-Electrical Box (in/mm)	9.8/249				9.8/249				9.8/249				9.8/249				12/305							
Depth-Electrical Box (in/mm)	3.7/94				3.7/94				3.7/94				3.7/94				4.3/110							

<sup>1</sup> For information about net weight and shipping weight please contact a Dometic Marine sales representative at 954-973-2477.  
<sup>2</sup> All dimensions ± 0.30 in. (8 mm).

Dimensions



**DOMETIC MARINE DIVISION**  
 2000 N. Andrews Ave. | Pompano Beach, FL 33069 USA | Tel. 954-973-2477 | Fax: 954-979-4414  
 www.Dometic.com/Marine | MarineSales@DometicUSA.com

**24/7 TECH SUPPORT FOR UNITED STATES & CANADA:**  
 8:00 AM to 5:00 PM Eastern Time: 800-542-2477  
 After hours and weekends: 888-440-4494

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 For all other areas visit our website to find your nearest distributor.

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Specifications and availability subject to change without notice.

Dealer

