

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

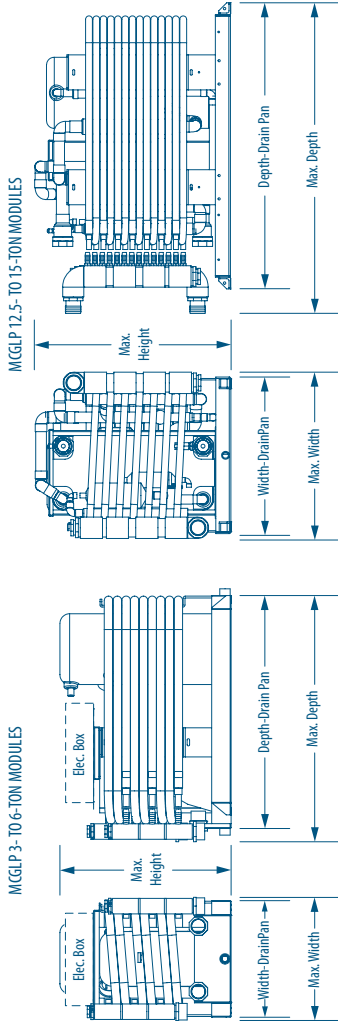
- Fits into height-restrictive spaces.
- Reverse-cycle heating.
- Stainless-steel drain pan on 36,000 - 72,000 BTU/hr models.
- Lightweight painted aluminum drain pan on 150,000 - 180,000 BTU/hr models.
- Up to six modules can be multiplexed for larger capacities.
- Up to 25% more condenser area than 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 ⁽¹⁾	MCGVLP36				MCGVLP48				MCGVLP60				MCGVLP72				MCGVLP150				MCGVLP180					
	36000	48000	60000	72000	36000	48000	60000	72000	36000	48000	60000	72000	150000	180000	36000	48000	60000	72000	150000	180000	36000	48000	60000	72000	150000	180000
Capacity (BTU/h)	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
Voltage (V)	60/1	50/1	60/3	60/3	60/1	50/1	60/3	60/3	60/1	50/1	60/3	60/3	60/1	50/1	60/1	60/3	60/3	60/3	60/1	50/3	50/3	60/3	60/3	60/3	50/3	60/3
Cycle (Hz/Phase (Ph))	12.9	12.3	8.3	3.9	13.8	14.7	11.3	5.2	17.8	8.3	5.9	20.1	14.2	10.1	14.2	10.1	14.2	10.1	30.6	19.9	15.1	38.3	24.1	20.2	38.3	24.1
Full Load Amps (FLA) Cool (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	17.9	13.3	17.9	13.3	38.9	24.5	19.3	50	29.9	25	29.9	25
Full Load Amps (FLA) Heat (A)	105	102.5	95	45	150	130	120	70	145	130	123	87	145	160	145	160	145	160	304	197	147	351	239	197	351	239
Locked Rotor Amps (LRA) (A)	77	75	50	23	85	90	58	33	30	60	42	33	94	81	94	81	94	81	144	86	67	168	114	86	168	114
Max. Circuit Breaker (A)	43	41	27	12	48	50	33	19	17	34	24	19	53	45	53	45	53	45	80	49	38	94	64	49	94	64
Min. Circuit Ampacity (A)	R410A				R410A				R410A				R410A				R410A				R410A					
Refrigerant Type	R410A				R410A				R410A				R410A				R410A				R410A					
Max. Height (in/mm) ⁽²⁾	18.25/464				18.25/464				18.25/464				18.25/464				18.25/464				18.25/464					
Width-Drain Pan (in/mm) ⁽²⁾	12/305				12/305				12/305				12/305				12/305				12/305					
Max. Width (in/mm) ⁽²⁾	12.69/323				12.69/323				12.69/323				12.69/323				12.69/323				12.69/323					
Depth-Drain Pan (in/mm) ⁽²⁾	24/610				24/610				24/610				24/610				24/610				24/610					
Max. Depth (in/mm) ⁽²⁾	25.38/645				25.38/645				25.38/645				25.38/645				25.38/645				25.38/645					
Seawater Inlet Connection (in/mm)	1/26				1/26				1/26				1/26				1/26				1/26					
Chilled Water Connection Size (in)	1				1				1				1				1				1					
Height-Electrical Box (in/mm)	11/280				11/280				11/280				11/280				11/280				11/280					
Width-Electrical Box (in/mm)	9.8/249				9.8/249				9.8/249				9.8/249				9.8/249				9.8/249					
Depth-Electrical Box (in/mm)	3.7/94				3.7/94				3.7/94				3.7/94				3.7/94				3.7/94					

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

Dimensions



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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

