

MCGXLP Titan Low-Profile Modular Chillers

Space-Saving Design and Titanium Durability



Marine Air MCGXLP Titan modular chillers use titanium condensers to greatly increase durability and product lifespan. Titanium is unaffected by the punishing combination of saltwater, invasive marine life, and the harsh acids used for routine cleaning of the condenser coil. Titan service life is greatly extended compared to cupronickel systems—the industry standard—which inevitably suffer catastrophic failure from corrosion and erosion in the harsh marine environment.

MCGXLP 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, MCGXLP units are much shorter than other chillers in the same capacity range, but no shorter on performance and reliability.

MCGXLP 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 MCGXLP series uses R-410A environmentally safe refrigerant, which has exceptional thermodynamic properties and maximizes system efficiency.

Performance and reliability are further improved with up to 25 percent more condenser area than similar low-profile units, and an expansion valve that modulates the refrigerant.

The MCGXLP series has stainless-steel drain pans for 3- to 6-ton modules, and lightweight painted aluminum drain pans for 12.5- to 15-ton modules. All models have removable PVC water headers that resist corrosion and erosion.

MCGXLP chillers are monitored and protected by Marine Air's exclusive Digital Diagnostic Controller (DDC), which can be installed remotely. For staged systems, the Chilled Water Master Controller (CWMC) provides central control over each DDC on each module in the system. Up to six modules are supported. The CWMC coordinates all cooling and heating functions, evenly distributes compressor run times, and operates the seawater and circulated water pumps.



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

Key Benefits

- Titanium condenser resists erosion and corrosion
- Titanium condenser increases durability and product lifespan
- 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
- 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

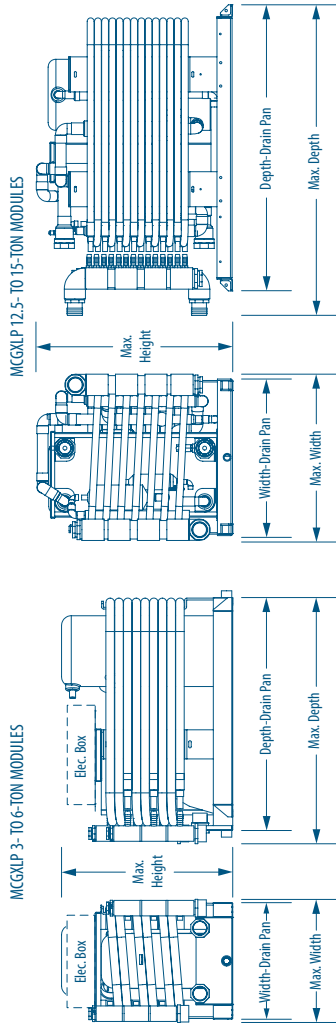
Specifications for MCGXLP Titan Low-Profile Modular Chillers

Model (1)	MCGXLP36				MCGXLP48				MCGXLP60				MCGXLP72				MCGXLP150				MCGXLP180				
	Capacity (BTU/h)	36000	48000	60000	72000	Capacity (BTU/h)	36000	48000	60000	72000	Capacity (BTU/h)	36000	48000	60000	72000	Capacity (BTU/h)	150000	180000	Capacity (BTU/h)	150000	180000	Capacity (BTU/h)	150000	180000	
Voltage (V)	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	
Cycle (Hz)/Phase (Ph)	60/1	50/1	60/3	60/3	60/3	60/1	50/1	60/3	60/3	60/3	60/1	50/1	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3	
Full Load Amps (FLA) Cool (A)	12.9	12.3	8.3	3.9	5.2	13.8	14.7	11.3	8.3	5.9	17.8	22.2	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
Full Load Amps (FLA) Heat (A)	16.8	18	10.9	5	20.2	21.4	12.7	7.6	6.6	23	29.1	14.8	10.8	7.4	7.4	29.3	17.9	13.3	8.9	38.9	24.5	19.3	50	29.9	25
Locked Rotor Amps (LRA) (A)	105	102.5	95	45	60	130	120	70	60	145	130	123	87	70	70	145	160	100	87	304	197	147	351	239	197
Max. Circuit Breaker (A)	70	75	50	23	80	90	58	33	30	100	101	60	42	33	33	94	81	42	144	144	86	67	168	114	86
Min. Circuit Ampacity (A)	43	41	27	12	17	48	50	33	19	17	57	34	24	19	19	53	45	24	24	80	49	38	94	64	49
Refrigerant Type	R410A				R410A				R410A				R410A				R410A								
Max. Height (in/mm) (2)	18.25/464				18.25/464				18.25/464				18.25/464				25.2/641								
Width-Drain Pan (in/mm) (2)	12/305				12/305				12/305				12/305				20.13/512								
Max. Width (in/mm) (2)	12.69/323				12.69/323				12.69/323				12.69/323				21.5/547								
Depth-Drain Pan (in/mm) (2)	24/610				24/610				24/610				24/610				36.75/934								
Max. Depth (in/mm) (2)	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	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								

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



DOMETIC MARINE DIVISION

2000 N. Andrews Ave. Ex. | 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

INTERNATIONAL SALES & SERVICES

Europe & the Middle East: Call +44(0)870-330-6101
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Specifications and availability subject to change without notice.

Dealer

