

CLIMATE

# MCGXLP LOW-PROFILE TITANIUM CHILLERS

Space-saving low-profile Dometic MCGXLP 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.

## ULTRA DURABLE

TITANIUM CONDENSER

## LOW PROFILE

FITS IN SMALLER LOCATIONS

## DIGITAL CONTROLLER

MONITORS & PROTECTS



230V/60Hz/1-Ph or 3-Ph  
220-240V/50Hz/1-Ph  
460V/60Hz/3-Ph  
380V/50Hz/3-Ph



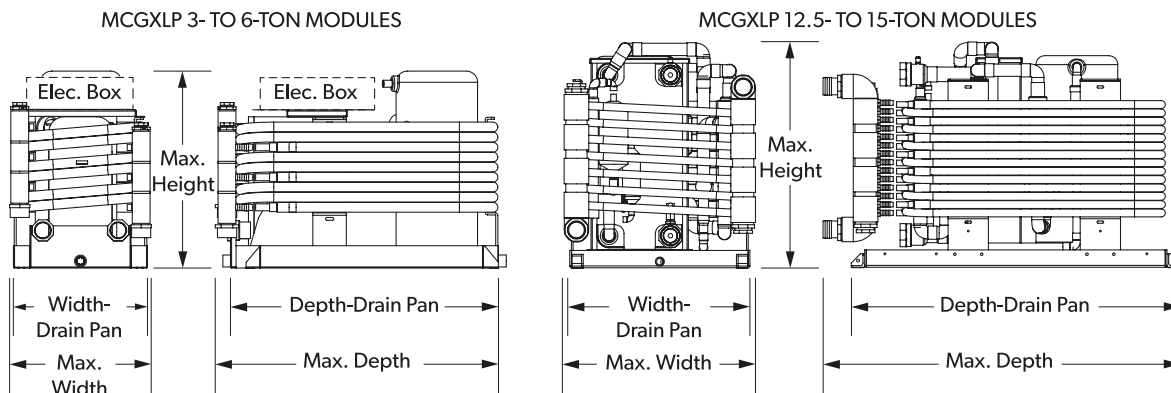
36,000 - 180,000 BTU

Mobile living made easy.

 **DOMETIC**

# DESIGNED FOR UNIQUE & HEIGHT-RESTRICTIVE INSTALLATIONS

Model <sup>1</sup>	MCGXLP36				MCGXLP48					
Capacity (BTU/h)	36000				48000					
Voltage (V)	230	220	230	460	230	220	230	380	460	230
Cycle (Hz)/Phase (Ph)	60/1	50/1	60/3	60/3	60/1	50/1	60/3	50/3	60/3	60/1
Full Load Amps (FLA) Cool (A)	12.9	12.3	8.3	3.9	13.8	14.7	11.3	5.8	5.2	17.8
Full Load Amps (FLA) Heat (A)	16.8	18	10.9	5	20.2	21.4	12.7	7.6	6.6	23
Locked Rotor Amps (LRA) (A)	105	102.5	95	45	150	130	120	70	60	145
Max. Circuit Breaker (A)	70	75	50	23	80	90	58	33	30	100
Min. Circuit Ampacity (A)	43	41	27	12	48	50	33	19	17	57
Refrigerant Type	R410A				R410A					
Max. Height (in/mm) <sup>2</sup>	18.25/464				18.25/464					
Width-Drain Pan (in/mm) <sup>2</sup>	12/305				12/305					
Max. Width (in/mm) <sup>2</sup>	12.69/323				12.69/323					
Depth-Drain Pan (in/mm) <sup>2</sup>	24/610				24/610					
Max. Depth (in/mm) <sup>2</sup>	25.38/645				25.38/645					
Seawater Inlet Connection (in/mm)	1/26				1/26					
Chilled Water Connection Size (in/mm)	1/26				1/26					
Height-Electrical Box (in/mm)	11/280				11/280					
Width-Electrical Box (in/mm)	9.8/249				9.8/249					
Depth-Electrical Box (in/mm)	3.7/94				3.7/94					



Mobile living made easy.

<b>MCGXLP60</b>				<b>MCGXLP72</b>				<b>MCGXLP150</b>			<b>MCGXLP180</b>		
60000				72000				150000			180000		
220	230	380	460	230	230	380	460	230	380	460	230	380	460
50/1	60/3	50/3	60/3	60/1	60/3	50/3	60/3	60/3	50/3	60/3	60/3	50/3	60/3
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
29.1	14.8	10.8	7.4	29.3	17.9	13.3	8.9	38.9	24.5	19.3	50	29.9	25
130	123	87	70	145	160	100	87	304	197	147	351	239	197
101	60	42	33	94	81	42	42	144	86	67	168	114	86
57	34	24	19	53	45	24	24	80	49	38	94	64	49
R410A				R410A				R410A			R410A		
18.25/464				18.25/464				25.2/641			25.2/641		
12/305				12/305				20.13/512			20.13/512		
12.69/323				12.69/323				21.5/547			21.5/547		
24/610				24/610				36.75/934			36.75/934		
25.38/645				25.38/645				40.03/1017			40.03/1017		
1/26				1/26				2/51			2/51		
1.25/32				1.25/32				2/51			2/51		
11/280				11/280				13.3/338			13.3/338		
9.8/249				9.8/249				12/305			12/305		
3.7/94				3.7/94				4.3/110			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.

# COMPACT BASE & TITANIUM DURABILITY



Titanium extends service life and is unaffected by the corrosion and erosion of the harsh marine environment. Featuring a compact base design, the MCGXLP modules can be combined to provide a larger system which is easily retrofitted and staged in the field. Designed for locations onboard where height is an obstacle, the MCGXLP is much shorter than other chillers in the same capacity range, but no shorter on performance and reliability.

## **BENEFITS OF THE MCGXLP LOW-PROFILE TITANIUM CHILLERS**

- Cooling & Heating Capacity: 24 000 BTU up to 180,000 BTU
- Titanium condenser dramatically increases product lifespan
- Up to six modules can be staged
- Hermetically sealed and pre-charged with R-410A refrigerant
- Features freeze controls, high-limit switches, high and low aquastats and timers
- Hot-gas bypass provides heating in cold seawater conditions (36,000 to 72,000 BTU models)
- Monitored and protected by Dometic's exclusive Digital Diagnostic Controller (DDC)



### **1. LOW-PROFILE**

3- and 6-ton models are 18.25 in/464 mm H,  
12.5- and 15-ton models are 25.2 in/640 mm H



### **2. COOLING & HEATING**

Cooling and reverse-cycle heating



### **3. ECO-FRIENDLY**

Uses R410A environmentally safe refrigerant



### **4. EFFICIENT**

32 percent larger condenser area than similar  
low-profile units



### **5. LONG LASTING**

Durable titanium condenser for longer service life



### **6. SOLID CONSTRUCTION**

3- and 6-ton models feature a stainless steel  
drain pan, 12.5- to 15-ton models feature a  
lightweight painted aluminum drain pan

# 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

