



Specification Sheets for:

Direct Expansion Air Conditioning
Chilled Water Air Conditioning
Controls & Accessories
Eskimo Ice Fishbox Ice Systems

**NEW
PRODUCTS
SECTION
P. 3-12**

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NEW

EnviroComfort R-410A Air Conditioning Kits

Ideal for Easy Retrofits or New Air Conditioning Installations



Enjoy ideal temperatures on your boat year-round with EnviroComfort (ECD) self-contained air conditioning kits — now available with R-410A refrigerant, an environmentally safe gas.

ECD kits are available in 6,000, 10,000, and 16,000 BTU/hr cooling and reverse-cycle heating capacities, so you can size the system to suit your boat for ultimate comfort in a range of climates.

All units have high-velocity blowers with internal motors for a more compact installation footprint. The blower can be rotated to a horizontal or vertical position for greater installation flexibility. Units are built on an easy-to-plumb stainless-steel drain pan, and the pre-installed return-air filter is removable for cleaning.

ECD units are operated by a compact digital display/control that features a bright green LED display and large buttons. For added installation convenience, the plastic electrical box can be mounted remotely.

ECD kits are ideal for replacing an air conditioning system or for a completely new air conditioning installation. The Retrofit Kit (shown above), which includes the ECD unit and digital control, is designed to replace an old self-contained unit and control. The ECD 6,000 BTU/hr unit will replace a 5,000 to 7,000 BTU/hr unit; the 10,000 BTU/hr unit will replace an 8,000 to 11,000 BTU/hr unit; and the 16,000 BTU/hr unit will replace a 12,000 to 16,000 BTU/hr unit.

The Installation Kit includes all air distribution and plumbing components that, when combined with the Retrofit Kit, comprise a completely new air conditioning system installation for treating one interior space. If treating a second space is desired, add the Dual Duct Kit, which includes a “Y” connector, 12.5 ft. (3.8 m) of 4 in. (102 mm) of flexible insulated duct, and a circular supply air grille.



The installation kit includes all air distribution and plumbing components needed to air condition a single space, and is added to the Retrofit Kit for a complete system installation.



The Dual Duct Kit includes a “Y” connector, 12.5 ft. (3.8 m) of flexible duct, and supply air grille for air conditioning a second space.

Key Benefits

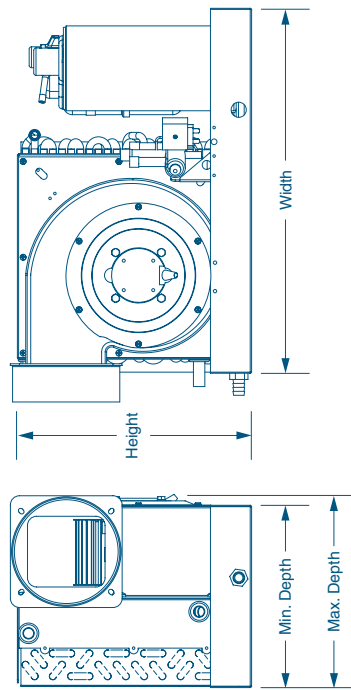
- Cools and heats
- High-velocity blower is rotatable to horizontal or vertical positions
- Small, compact, space-saving design
- Environmentally safe R-410A refrigerant
- Compact digital display/control
- Plastic electrical box can be mounted remotely for installation flexibility
- Stainless-steel drain pan
- Pre-installed return-air filter is removable for cleaning
- Retrofit Kit replaces an old air conditioning unit and control
- Add the Installation Kit to the Retrofit Kit for a completely new system installation
- Optional Dual Duct Kit for air conditioning a second interior space
- Available in 6,000, 10,000, and 16,000 BTU/hr capacities

Technical Specifications for

CAPACITY (BTU/HR)	6,000	10,000	16,000
Voltage/Cycle (Hz/Phase)	115/60/1	115/60/1	115/60/1
Full Load Amps (FLA) Cool	4.6	6.7	10.4
Full Load Amps (FLA) Heat	5.9	8.8	13.6
Locked Rotor Amps (LRA)	36.0	42.0	62.0
Refrigerant Type	R-410A	R-410A	R-410A
Control Type	Compact Digital	Compact Digital	Compact Digital
Height (in/mm) ¹	11.25/286	13.25/337	13.50/343
Width (in/mm)	16.0/406	20.0/508	20.0/508
Min. Depth (in/mm)	8.00/203	8.75/222	10.25/260
Max. Depth (in/mm)	9.00/229	9.63/245	11.25/286
Min. Supply Duct Size (in/mm)	5.00/127	6.00/155	6.00/155
Seawater Connection Size (in/mm)	0.63/16	0.63/16	0.63/16
Net Weight (lbs/kg) ²	39.0/17.7	58.0/26.3	64.0/29.0
Gross Weight (lbs/kg)	49.0/22.2	68.0/30.8	74.0/33.6
Elec. Box Height (in/mm)	8.75/222	8.75/222	8.75/222
Elec. Box Width (in/mm)	6.50/165	6.50/165	6.50/165
Elec. Box Depth (in/mm)	2.77/70	2.77/70	2.77/70

¹ All dimensions ± 0.50 in. (13 mm).
² Weights listed are for ECD units only and do not include kit components.

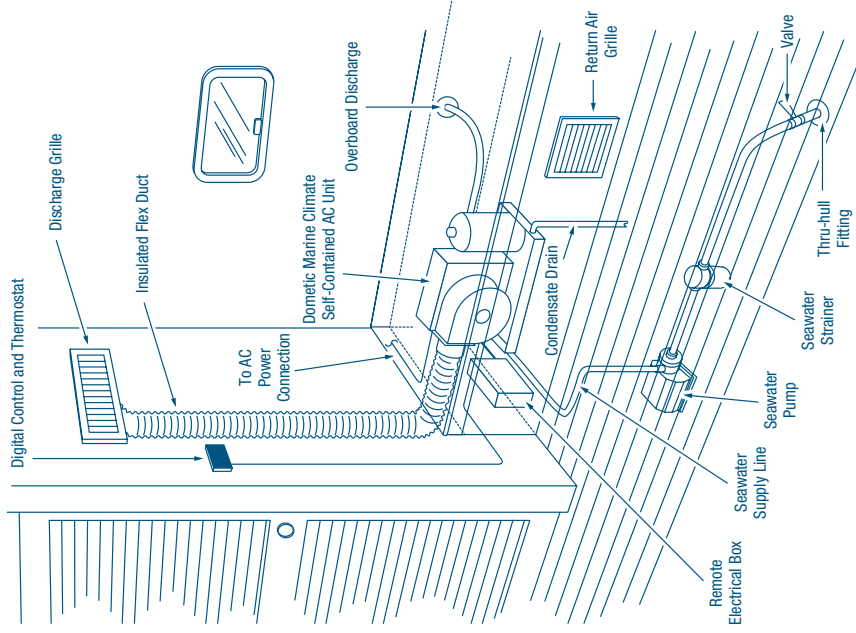
Dimensions



Part Numbers

KIT	ECD6	ECD10	ECD16
Retrofit Kit	207500306	207500310	207500316
Installation Kit	218000106	218000110	218000116
Dual Duct Kit	226600091	226600092	226600092

Installation Diagram



Dealer:



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L-3003 Rev. 20110916

Specifications and availability subject to change without notice.

Requires
No Plumbing

DuraSea Rooftop Air-Cooled Air Conditioner

Heavy-Duty Drop-In Cooling With Integrated Air Purifier



Dometic's DuraSea Rooftop 15,000 BTU/hr air conditioner is built to endure harsh marine environments. It is the ideal cooling solution for patrol boats, house boats, and other vessels and the integrated Breathe Easy™ air purification technology dramatically improves air quality.

The DuraSea Rooftop is air cooled and requires no plumbing. It is designed to be installed on a flat deck or rooftop location to cool the area directly below it. The underside of the unit, accessible from the interior cabin, contains the thermostat and fan controls as well as the return-air vent and two supply-air vents that blow in opposite directions for increased cooling capability. The three-speed high-performance fan works in cooling and ventilation-only modes, and the Breathe Easy air purifier continues working in both modes.

The integrated Breathe Easy UV air purifier with photocatalytic Nano-Mesh technology reduces odors, volatile organic compounds (VOCs), and biological contaminants from the air that passes through the unit. Each time air recirculates through the system, it is further purified for up to 99.9% reduction in odors, mold spores, VOCs, viruses, and bacteria.

Providing 15,000 BTU/hr of cooling with all-copper refrigerant lines, the condenser and evaporator fans are both corrosion resistant, and the unit has corrosion-resistant coatings on the evaporator, condenser, and compressor.

Rugged and strong, the DuraSea Rooftop weighs only 103 lbs. (46.7 kg). The top plate is made of 0.040 galvanized steel and the powder-coated base pan is 15% thicker than other models.

The heavy-duty reinforcement plate ties the evaporator and condenser together to minimize vibration and movement, while also incorporating a vibration-isolating L-bracket on the compressor and fan motor for additional stabilization. Rubber clamps and bushings control noise and vibration.



The integrated Breathe Easy air purifier is easily removed for UV bulb replacement

ISO 9001:2008



Compressor is bracketed at top and bottom to minimize vibration and movement



The air distribution box (sold separately) mounts on the ceiling to provide A/C controls

L-3010 Rev. 20110916

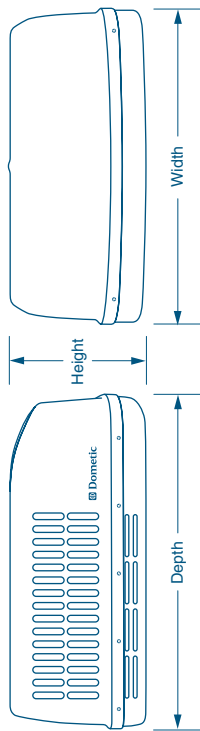
Key Benefits

- Designed for rooftop or deckmount installation
- Integrated Breathe Easy™ Air Purifier reduces odors, mold, and bacteria
- Provides 15,000 BTU/hr of cooling
- Air-cooled, no plumbing required
- Rugged and strong, yet lightweight
- High efficiency, low power consumption
- Corrosion-resistant components
- Vibration-free operation
- Compressor stabilization to endure extreme motion
- Three-speed high-performance fan for cooling or ventilation
- Environmentally safe R-410A refrigerant
- Air distribution box (sold separately) includes mechanical control and interior panel
- Optional electric heating kit

Technical Specifications for DuraSea Rooftop Air Conditioner

MODEL	TOUGHTOP
Capacity (BTU/hr)	15,000
Run Amps	13.8
Locked Rotor Amps (LRA)	66.0
Refrigerant Type	R-410A
Height (in/mm)	13.1/25334
Width (in/mm)	29.875/759
Depth (in/mm)	34.875/886
Net Weight (lbs/kg)	103/46.7

Dimensions Drawing

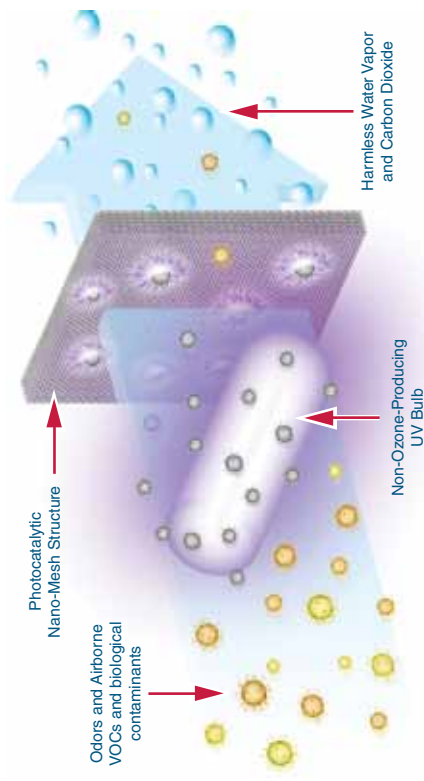


Integrated Breathe Easy™ Air Purification

The integrated Breathe Easy air purifier system works safely and effectively to reduce the odors of tobacco smoke, mildew, mustiness, chemical vapors, and toilets, resulting in fresher, cleaner, healthier air.

With the Breathe Easy system inserted into the DuraSea Rooftop unit, the air continuously becomes cleaner with each pass through the system.

The Breathe Easy air purifier uses innovative Photocatalytic Nano-Mesh technology with ultraviolet (UV) light to improve air quality. The easy-to-replace UV bulb uses a specific frequency of light that produces no harmful ozone.



How Breathe Easy Works

1. Odors, VOCs and biological contaminants enter the Breathe Easy system through the air flow (blue arrow above).
2. UV light energy activates the titanium-dioxide catalyst on the surface of the Nano-Mesh structure. The molecules of contaminants that contact the structure are reconfigured into non-toxic elements.
3. Significantly cleaner, healthier air exists the Breathe Easy system.

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Dealer:

Specifications and availability subject to change without notice.

ATV Series “4-Pipe” Chilled Water Air Handlers

Narrow Depth With Separate Boiler Connections

NEW


The ATV is a chilled water air handler designed for applications where very little depth is available. In the “4-pipe” configuration there are two separate sets of valves and heat exchangers for cooling and for heating. Two pipes connect to the chiller system to provide cooling, and two pipes connect to an auxiliary heat source, such as a boiler, to provide heating.

Tall and slim, ATV air handlers make previously unusable areas suitable for blower installation. Showcasing a unique vertical layout, the ATV series has the coil low and the blower above. Because of its minimal depth, it can be hidden in side areas instead of in places above or below, where most air handlers go.

Designed for ducted applications, the ATV series is equipped with high-velocity (HV) blowers with internal motors to reduce depth for more flexibility during installation. They are also available with brushless “WhisperCool” DC blowers that are extremely quiet yet can overcome significant static pressure in the ducting system.

ATV air handlers have deep, “positive flow” drain pans, constructed of corrosion-resistant materials, and are fully insulated against secondary condensation. An optional flow control is highly recommended to help distribute the flow of chilled water more efficiently.



ATV series air handlers have minimal depth, ideal for installation in walls and other side areas.



Key Benefits

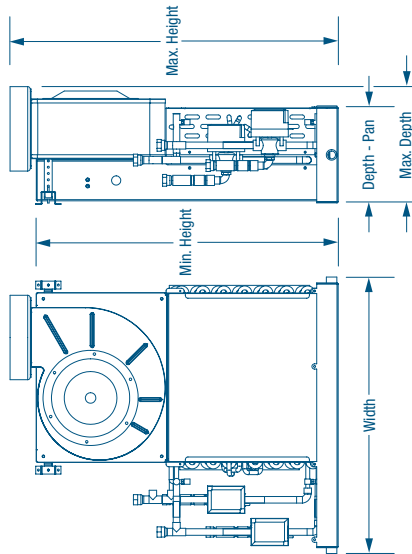
- Unique vertical design results in dramatically reduced depth
- Can fit into walls and other tight spaces
- Dedicated circuits for chilled water cooling and heating provided by an auxiliary heat source such as a boiler
- Exposed components are insulated against secondary condensation
- High-velocity blowers
- Also available with “WhisperCool” DC blowers that are extremely quiet yet can overcome high static pressure in ducting
- Deep, “positive flow” drain pan
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Optional flow control balances chilled water distribution

Technical Specifications for ATV Series "4-Pipe" Chilled Water Air Handlers

MODEL	ATV6HV-4P	ATV6HVZ-4P	ATV9HV-4P	ATV9HVZ-4P	ATV12HV-4P	ATV12HVZ-4P	ATV18HV-4P	ATV18HVZ-4P	ATV24HV-4P	ATV24HVZ-4P
Capacity (BTU/hr)	6000	6000	9000	9000	12000	12000	18000	18000	24000	24000
Capacity (Kcal/hr)	1512	1512	2268	2268	3024	3024	4536	4536	6048	6048
Power (Volt/Hz/Ph)	115/60/1	230/60/1	115/60/1	230/60/1	230/60/1	230/60/1	115/60/1	230/60/1	115/60/1	230/60/1
Blower Amps	1.2	0.6	1.4	0.7	1.4	0.7	2.2	1.1	3.5	1.6
Optional Heater KW	1	1	1	1	1	1	1.5	1.5	1.5	1.5
Heater Amps	8.7	4.3	8.7	4.3	8.7	4.3	13.0	6.5	13.0	6.5
Amps (FLA) Heat	9.9	4.9	10.1	5.0	10.1	5.0	15.2	7.5	15.2	7.5
Air Flow (cfm/cmh)	200/340	200/340	280/476	280/476	400/680	400/680	600/1,020	600/1,020	800/1,360	800/1,360
External Static Pressure (in H2O/Pa)	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186
Water Flow (gpm/lpm)	1.5/5.7	1.5/5.7	2.25/8.55	2.25/8.55	3/11.4	3/11.4	4.5/17.1	4.5/17.1	6/22.8	6/22.8
Min. Height (in/mm)	22.7/577	22.7/577	24.3/617	24.3/617	24.3/617	24.3/617	28.2/716	28.2/716	31.4/798	31.4/798
Max. Height (in/mm)	20.7/526	20.7/526	22.3/566	22.3/566	22.3/566	22.3/566	26.2/665	26.2/665	29.4/747	29.4/747
Width (in/mm)	24.1/612	24.1/612	24.1/612	24.1/612	24.1/612	24.1/612	24.9/632	24.9/632	26.3/668	26.3/668
Max. Depth (in/mm)	6.9/175	6.9/175	7.6/193	7.6/193	8.3/211	8.3/211	8.9/226	8.9/226	11.2/284	11.2/284
Depth-Pan (in/mm)	6.4/163	6.4/163	6.4/163	6.4/163	6.5/165	6.5/165	7.6/193	7.6/193	9.4/239	9.4/239
Drain Connection - Female NPT	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.
Chilled Water Connection - Female NPT	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.
Min. Return Grille Size (sq. in./sq. cm)	70/452	70/452	98/632	98/632	130/839	130/839	200/1,290	200/1,290	240/1,548	240/1,548
Min. Supply Grille Size (sq. in./sq. cm)	35/226	35/226	49/316	49/316	70/452	70/452	100/645	100/645	140/903	140/903
Min. Duct Diameter (in/mm)	5/127	5/127	6/152	6/152	6/152	6/152	7/178	7/178	8/203	8/203
Net Weight (lbs/kg)(2)	27/12	27/12	29/13	29/13	34/15	34/15	42/19	42/19	54/25	54/25
Gross Weight (lbs/kg)	37/17	37/17	39/18	39/18	44/20	44/20	52/24	52/24	64/29	64/29

¹ All dimensions ± 0.5 in. (13 mm).
² Estimated weights ± 10%.

Dimensions



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Dealer:

NEW

Bypassable Variable Frequency Drives

Smooth Starts and Stops Without Electrical Disturbances



A Variable Frequency Drive (VFD) completely eliminates the large starting inrush current of the compressor by ramping up frequency and voltage in a controlled time period. This prevents overload when on limited dockside power or a generator without causing noticeable voltage reductions throughout the rest of the yacht's electrical system.

Until now, however, a VFD also created harmonic distortion and radio frequency interference (RFI) on the yacht's electrical and navigation systems, which required additional line filters and conditioners.

The bypassable VFD provides the ultimate solution. It eliminates the starting inrush of current, then seamlessly disengages and reconnects the compressor to the main power once it is running at peak, thus eliminating all harmonic distortion and RFI. There is also no need for line filters and conditioners. In addition, it reconnects to the compressor just before compressor shutdown for a smooth stop. It accomplishes this with totally unique capabilities never before available in a marine HVAC system.

Before bypassing can take place, the VFD synchronizes the phase of its AC power sine wave with that of the main power source, a process called phase locking. Once phase lock occurs, the bypass is done by the opening and closing of a series of electrical switches, the timing of which is so precise that there is no interruption or overlap of current. For smooth compressor shutdown, the bypassed VFD will perform another phase lock, then reconnect to the compressor by reversing the electrical switching.

While in bypass mode, the VFD is available to connect to another compressor for ramp up or ramp down. One bypassable VFD can support up to four compressors, making it especially cost effective for chillers with two, three, or four stages. A standard VFD can run only one compressor.

In addition to its primary functions, the bypassable VFD also protects the compressor by monitoring input voltage and output current, and will shut down if a problem is detected. A display allows the user to monitor operation and faults.

The bypassable VFD is pre-programmed from the factory and no further setup is required. It is designed to operate in extreme environments, such as an engine room. However, the enclosure is ventilated and must be kept dry. Any direct water contact can damage the unit.

Power cables are available through special order.

Key Benefits

- Eliminates inrush current at compressor startup
- Eliminates power spikes at compressor shutdown
- Bypasses the VFD once compressor is at peak speed for no electrical disturbances
- Eliminates the need for line reactors and RFI filters
- One unit can control up to four compressors
- Available in sizes from 5HP to 25HP for 208V/240V or 380V/460V systems

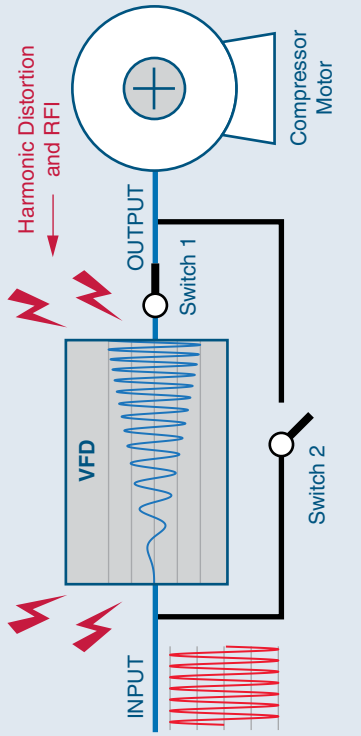
Technical Specifications for Bypassable Variable Frequency Drives

MODEL	REF NUMBER	COMPRESSOR VOLTAGE	MAX. CURRENT RATING @ 50°C	HEIGHT (IN/MM)	WEIGHT (LBS/KG)	DEPTH (IN/MM)	WEIGHT (LBS/KG)
VFD BYPS 17.5A 5HP 230V	4250500	208-240V/50-60Hz	17.5	5.7/144	15.4/391	8.4/214	17.9/8.1
VFD BYPS 25A 7.5HP 230V	4250501	208-240V/50-60Hz	25.0	5.7/144	15.4/391	8.4/214	17.9/8.1
VFD BYPS 31A 10HP 230V	4250502	208-240V/50-60Hz	31.0	7.7/195	20.4/519	9.3/237	40.8/18.5
VFD BYPS 48A 15HP 230V	4250503	208-240V/50-60Hz	48.0	7.7/195	20.4/519	9.3/237	40.8/18.5
VFD BYPS 61A 20HP 230V	4250504	208-240V/50-60Hz	61.0	9.3/237	23.3/591	10.1/257	77.2/35.0
VFD BYPS 75A 25HP 230V	4250505	208-240V/50-60Hz	75.0	9.3/237	23.3/591	10.1/257	77.2/35.0
VFD BYPS 9A 5HP 460V	4250510	380-415V/50Hz and 460-480V/60Hz	9.0	5.0/128	11.5/282	7.5/190	11.0/5.0
VFD BYPS 12A 7.5HP 460V	4250511	380-415V/50Hz and 460-480V/60Hz	12.0	5.7/144	15.4/391	8.4/214	17.9/8.1
VFD BYPS 16A 10HP 460V	4250512	380-415V/50Hz and 460-480V/60Hz	16.0	5.7/144	15.4/391	8.4/214	17.9/8.1
VFD BYPS 23A 15HP 460V	4250513	380-415V/50Hz and 460-480V/60Hz	23.0	5.7/144	15.4/391	8.4/214	17.9/8.1
VFD BYPS 31A 20HP 460V	4250514	380-415V/50Hz and 460-480V/60Hz	31.0	7.7/195	20.4/519	9.3/237	40.8/18.5
VFD BYPS 38A 25HP 460V	4250515	380-415V/50Hz and 460-480V/60Hz	38.0	7.7/195	20.4/519	9.3/237	40.8/18.5

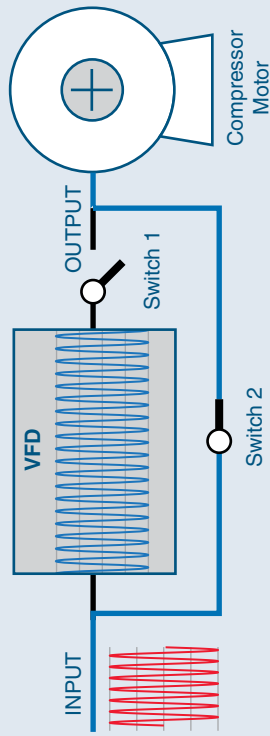
Accessories

MODEL	REF NUMBER
OPT-B5 Expansion Card (Add one OPT-B5 for 2 - 3 compressors per VFD, add two for four compressors per VFD)	4250520

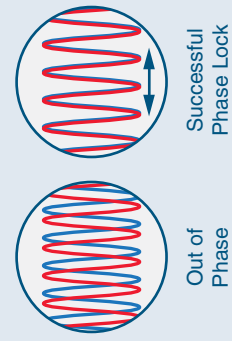
During normal operation the VFD eliminates power drain by ramping up the current supplied to the compressor, but this creates harmonic distortion and RFI that can disrupt electronic devices connected to the same power source.



Once the compressor is running at peak, precise switching bypasses the VFD and connects the compressor to the main power source. When bypassed, the VFD creates no electrical interference and makes it available to ramp up another compressor.



Before the VFD can be bypassed, it must adjust the phase of its output electrical current to match that of the main power source. Once "phase lock" is achieved, the VFD can be safely bypassed. It performs phase lock again just before compressor shut down, as the VFD is also used for smooth ramp down to prevent power spikes.



Dealer:



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L-3002 Rev. 20110930

Specifications and availability subject to change without notice.

NEW

The WhisperFan Controller

Silences Noisy AC-Driven Blower Motors



Key Benefits

- Eliminates blower motor noise associated with low fan speeds
- Makes AC-driven blowers as quiet as DC-driven blowers
- User-programmable fan speeds
- Provides overload protection to blower motor
- Easy and economical solution for noisy fans
- Works with all Cruisair and Marine Air cabin controls
- Controls blowers up to three amps
- Supports blowers that are 208-240VAC/50-60Hz
- Support for 115VAC/60Hz blower motors available soon

The WhisperFan Controller eliminates the noise generated by AC-driven blower motors at low fan speed settings. In addition, it provides overload protection to the blower motor and lets you precisely control the actual fan speed for each fan-speed setting (e.g. High, Medium, Low).

This electrical device uses pulse width modulation to make any AC-driven fan as quiet as a DC-driven fan. Simply install it in line between the electrical box and the blower. By pulsing the voltage hundreds of times faster than is possible with triacs, the smoother motor current results in quieter, extreme low-noise output across all fan speeds.

The WhisperFan Controller also provides more versatile fan-speed control. Want a more noticeable difference between your fan's medium speed and its high speed? The WhisperFan's two-button keypad allows you or an installer to specify the exact speed for all your fan speed settings. Further fine tuning can be done later from your cabin control's keypad (e.g. Cruisair Qht or Marine Air Systems Elite).

The WhisperFan works with all Cruisair and Marine Air cabin controls (Q-Logic, Passport, and SMXII) and with any AC blowers on either chilled water or direct expansion air conditioning systems.

The WhisperFan Controller is an easy and economical solution for an existing blower installation that may be too noisy. It's also great for anyone who wants to make precise adjustments to the fan-speed settings.

The WhisperFan Controller works with blowers up to 3 amps. WhisperFan can only support a single blower, so you must use one per fan.



The WhisperFan Controller has a two-button keypad that allows you or your installer to adjust your fan speed settings.

Technical specifications for the WhisperFan Controller available soon.

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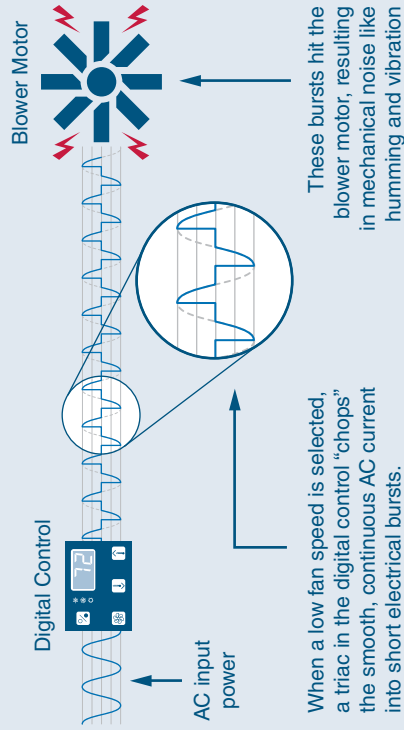
L-3000 Rev. 20110930

Specifications and availability subject to change without notice.

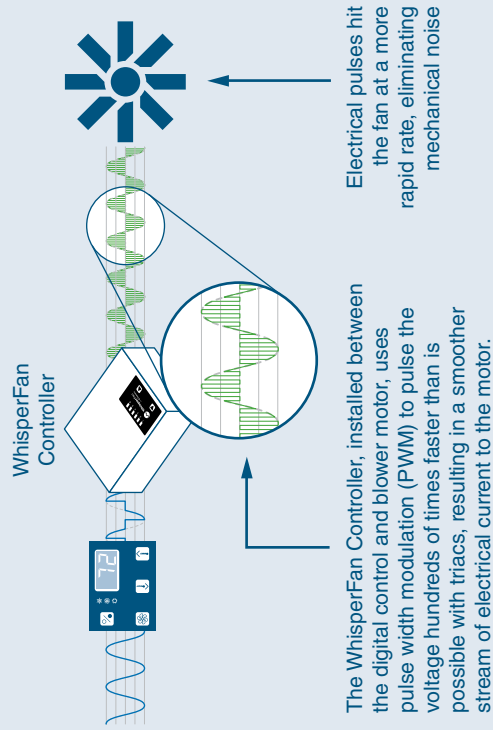


Dealer:

Typical blower motor operation **WITHOUT** the WhisperFan Controller
AT LOW FAN SPEEDS



Typical blower motor operation **WITH** the WhisperFan Controller **AT LOW FAN SPEEDS**



Vector Turbo Series Air Conditioning

Powerful, Quiet, and Compact With No Drain Pan Worries

Now
with R-410A

Photo courtesy of Cruisers Yachts



VTD16K Vector Turbo shown with optional sound cover



The Vector Turbo series completely revolutionized self-contained cooling and heating with the newest innovations in marine air conditioning system design.

The rust-free molded composite drain pan has three drains for the rapid removal of condensate water.

An advanced cushioning system results in significantly quieter, virtually vibration-free operation. The enclosed blower motor eliminates overhang to provide easier installation.

The Turbo series was specifically engineered to harness and maximize the impressive performance of R-410A refrigerant. Used in the HVAC industry for more than 10 years, R-410A refrigerant is proven, reliable, and complies with all EPA standards and is accepted world wide.

Easy-to-install sound cover provides up to 50% noise reduction

Make a quiet system even quieter. These compact, easy-to-install sound covers are available for all Vector Turbo models.



The cover fits over the compressor, providing a 3- to 5-dB noise reduction—which is about a 50% drop in what the human ear can perceive. Installation takes just minutes and all mounting hardware is included.

Key Benefits

- Up to 27% more energy efficient
- Up to 21% increased capacity
- Compact design uses less space
- Rust-free drain pan
- Up to 85% less standing water in drain pan
- Cushioned mounts reduce noise and vibration
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant
- Optional sound cover further reduces compressor noise up to 50%

Product Testimonial

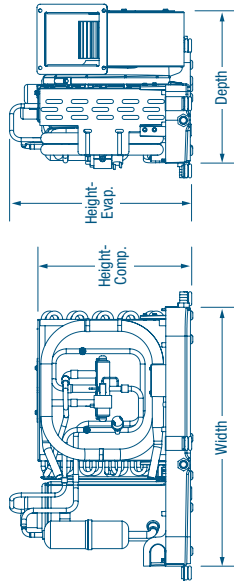
"There is very little noise coming from the compressor, and vibrations are practically non-existent. I highly recommend this unit."

— *Bob Silverman, Owner, 305 Bayliner Express Cruiser*

Technical Specifications for Vector Turbo Series

MODEL ⁽¹⁾	VTD6K			VTD8K			VTD10K			VTD12K			VTD16K			
	Capacity (BTU/Hr) ⁽²⁾	115	230	240	115	230	240	115	230	240	115	230	240	115	230	240
Capacity (BTU/Hr) ⁽²⁾	6,000	115	230	240	8,000	115	230	240	10,000	115	230	240	12,000	115	230	240
Voltage (VAC)		60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	60/1	60/1	50/1	60/1	60/1	60/1	50/1
Cycle (Hz)/Phase (Ph) ⁽³⁾		60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	60/1	60/1	50/1	60/1	60/1	60/1	50/1
Full Load Amps (FLA) cool	4.60	2.20	2.20	2.70	5.50	3.10	3.10	3.20	6.70	3.30	3.30	4.00	8.70	4.00	4.00	5.10
Full Load Amps (FLA) heat	5.90	2.80	2.80	3.70	7.10	4.00	4.00	4.10	8.80	3.90	3.90	4.30	10.90	5.10	5.10	6.60
Blower (FLA)	0.80	0.36	0.36	0.36	1.31	0.70	0.70	0.83	1.14	0.61	0.61	0.48	1.14	0.61	0.61	0.56
Locked Rotor Amps (Comp)	36.00	17.70	17.70	17.70	36.00	17.70	17.70	17.70	42.00	22.00	22.00	28.00	58.00	28.00	28.00	34.00
K.V.A. (Kilo-Volt-Amps)	0.68	0.64	0.64	0.88	0.82	0.92	0.99	0.99	1.02	0.90	0.90	1.18	1.26	1.03	1.03	1.43
Max. Circuit Breaker (Amps)	20	11	11	10	21	11	11	11	27	16	16	18	34	18	18	20
Min. Circuit Ampacity (Amps)	11	6	6	6	12	6	6	6	16	9	9	10	19	10	10	11
Refrigerant R-410A (oz/g)	8.5/241	8.5/241	8.5/241	8.5/241	9.0/255	9.5/269	9.5/269	9.5/269	11.0/312	11.0/312	11.0/312	11.0/312	10.5/298	11.0/312	11.0/312	13.0/369
Height - Evap. (in/mm) ⁽⁴⁾	10.8/274				10.8/274				12.2/310				12.2/310			12.9/328
Height - Comp. (in/mm)	11.1/282				11.1/282				13.0/329				12.5/318			13.4/340
Height - w/opt. Sound Cover	13.4/340				13.4/340				14.0/356				14.0/356			14.0/356
Width (in/mm)	17.6/447				17.6/447				20.4/518				20.4/518			21.4/544
Depth (in/mm)	10.7/272				10.7/272				12.4/315				12.4/315			13.3/338
Min. Duct Size (in/mm)	4/102				5/127				6/152				6/152			7/178
Min. SA Grille (sq. in./sq. cm)	32/206				48/310				60/387				70/452			80/516
Min. RA Grille (sq. in./sq. cm)	64/413				80/516				100/645				130/839			160/1032
Net Weight (lbs/kg)	43.4/19.7				46.7/21.2				49.6/22.5				53.0/24.0			59.6/27.0
Gross Weight (lbs/kg)	53.4/24.2				56.7/25.7				59.6/27.0				63.0/28.6			69.6/31.6

¹ Add a 'Z' for 230V units. Examples VTD8K = 115V, VTDKZ = 230V.
² BTU and electrical data are based on a 45°F / 7.2°C evaporator and 100°F / 37.8°C condenser in cool mode, and a 45°F / 7.2°C evaporator and 130°F / 54.4°C condenser in heat.
³ 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate states otherwise.
⁴ Electric box is remote mounted up to 34 in. (864 mm) away from compressor. Electrical box dimensions are 2.7 in. (69 mm) x 6.5 in. (165 mm) x 8.8 in. (224 mm).



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Dealer:

Cuddy dc Air Conditioning Kit

Easy and Affordable Cold Air Powered by 12V DC

Powered
By Batteries



Photo courtesy of Pro-Line Boats

Cuddy dc 3,500
BTU/hr Kit



The Cuddy dc is a compact 3,500 BTU/hr cool-only air conditioner designed to work with 12V power systems. Energized by a dedicated bank of batteries and a dedicated power module (DPM), the Cuddy dc makes your small cabin a refuge from the heat and sun. Compact—about the size of a typical battery box—this low-profile unit easily fits beneath a V-berth or in a storage area below deck. The Cuddy dc uses R-134A, a globally accepted, environmentally safe refrigerant.

The customer's dedicated 12V DC battery bank powers the system via the DPM, which is included with the Cuddy dc kit. Two ABYC-approved wires (sized properly for your unique installation) run from the dedicated battery bank to the DPM. Easy-to-use polarized plugs connect the DPM to the seawater pump and the Cuddy dc unit. Optional cables are available for longer runs if your setup requires more than the standard 4.5 ft. (1.37 m) cable included with the kit.

To operate the system, the Cuddy dc uses a simple two-knob mechanical control. Since it draws no power itself, the mechanical control maximizes runtime and efficiency. The Cuddy dc system (compressor, blower, and pump) draws about 29 amps of DC power under normal operating conditions. Supplemental DC power comes to you via engine power (if available) or via shore power through a battery charger.

Key Benefits

- Operates via simple 12V DC connection
- 3,500 BTU/hr cool-only system
- Compact - about the size of a battery box
- High-velocity blower with split capacitor for greater airflow
- Stainless-steel chassis
- Simple two-knob mechanical control maximizes efficiency and runtime
- Minimal DC draw - about 29 DC amps total
- No genset needed
- Air distribution kits available

Technical Specifications for Cuddy dc Kits

COMPONENT	CAPACITY	HEIGHT (IN/MM)	WIDTH (IN/MM)	DEPTH (IN/MM)	WEIGHT (LBS./KG.)	REFRIGERANT	ELECTRICAL (COMPRESSOR, BLOWER, AND PML 150 PUMP) ⁽¹⁾
Cuddy dc Unit	3,500 BTU/hr	9.25/235	15.00/381	8.0/204	29.0/13.2	R-134A	~29 amps @ 12V DC
Dedicated Power Module (DPM)	N/A	5.13/130	10.00/254	2.67/68	3.0/1.3	—	
Control	N/A	5.50/140	3.25/83	2.75/70	—	—	
Seawater Pump	150 GPH	2.75/70	3.50/89	4.75/121	1.0/0.46	—	

¹ Actual load is dependent upon humidity, seawater temperature, battery condition, voltage, and electrical connections.

Cuddy dc Kits & Accessories

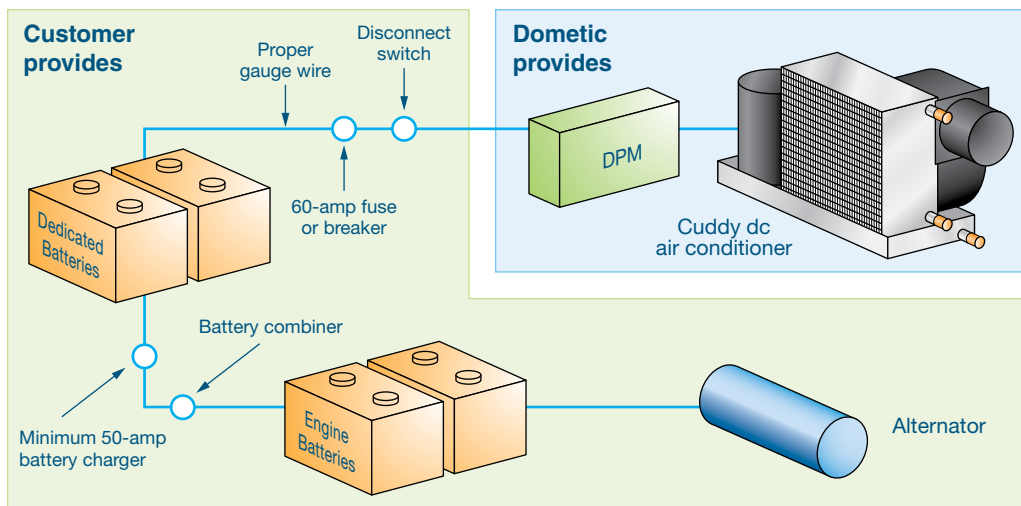
Cuddy dc – 12V DC system	Cooling-only unit, DPM, 150 GPH seawater pump, control, polarized plugs
Extension cable	DPM to Unit - 10 ft. (3 m)
Extension cable	DPM to Unit - 20 ft. (6 m)
Extension cable	PLM 250 to Unit - 10 ft. (3 m)
Air Distribution Kit – Black	3 in. discharge grille - black; 8 X 8 in. (204 X 204 mm) return grille; 10 ft. (3 m) of 3 in. duct
Air Distribution Kit – White	3 in. discharge grille - white; 8 X 8 in. (204 X 204 mm) return grille; 10 ft. (3 m) of 3 in. duct

Dedicated Power Module

Our Cuddy dc kit includes a Dedicated Power Module (DPM) that has been Dometic-tested to handle the air conditioning load.

Batteries & Battery Charger

You must provide the right type of batteries and the right type of battery charger. Use only Deep-Cycle AGM or Gel-Cell batteries. (Do not use Wet-Cell batteries.) The battery charger must be rated for the type of battery you use. The Cuddy dc requires a dedicated battery bank. To maximize runtime, we recommend using at least two batteries in the bank. (The more cells, the longer the runtime.) All batteries used must be of the same type (either all AGM or all Gel Cell), the same capacity, and the same age.



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Environmentally Responsible

Dealer:

Stay Cool With Dash Air

Designed for Unique & Height-Restrictive Installations

Now
With R-410A



SXL16 self-contained model

Dash Air delivers high-velocity cold air (or HOT!) onto the bridge, cockpit, or deck using an innovative horizontal compressor. The 16,000 BTU/hr. self-contained package stands just eight inches (203 mm) high and is easily ducted to confined spaces like flybridge dashboards and consoles.

Dash Air air conditioning systems use R-410A, an environmentally safe refrigerant with exceptional thermodynamic properties that maximize system efficiency.

Also available is a 16,000 BTU/hr. evaporator connected to a remote condensing unit below decks.

All Dash Air systems are reverse-cycle, blowing warm air on chilly days, thereby extending your cruising season. All units are designed for easy, professional installation on new boats and older vessels.

Dash Air features an oversized four-row evaporator coil for excellent heat removal under low fan-speed conditions. A highly efficient blower reduces power consumption, and the blower flows to two outlets.

Key Benefits

- Stands only 8 in. (203 mm) high
- Unique horizontal compressor
- 16,000 BTU/hr cooling and heating
- High-efficiency, ductable dual blowers
- Ideal for flybridge, cockpit, and on-deck installations
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant
- 304-grade stainless-steel drain pan for long service life
- Stainless-steel condensate drains for excellent water removal
- Electrical box can be remotely mounted up to 5 ft. (1.52 m)
- Special corrosion-resistant coating on blower and housing
- Oversized four-row evaporator coil for excellent heat removal under low-fan speed conditions

Technical Specifications for R-410A Dash Air Systems

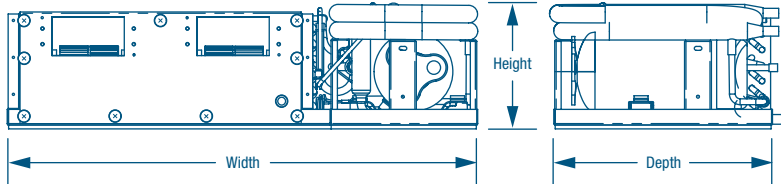
UNIT TYPE	SELF-CONTAINED UNITS			SPLIT EVAPORATOR	
Capacity (BTU/hr) ⁽¹⁾	16,000			16,000	
Model Number	SLQ16K	SLQ16C	SLQ16CK	EDLE16-115V	EDLE16-230V
Voltage (VAC)	115	230	240	115	230
Cycle (Hz)/Phase (Ph) ⁽²⁾	60/1	60/1	50/1	60/1	60/1 & 50/1
Blower Amps	2.00	0.86	0.62	2.00	0.86 @ 230V/60Hz 0.62 @ 230V/50Hz
Full Load Amps (FLA) cool	11.0	4.7	4.5	N/A	
Full Load Amps (FLA) heat	14.2	6.2	5.8	N/A	
Locked Rotor Amps (Comp)	61	29	26	N/A	
K.V.A. (Kilo-Volt-Amps)	1.63	1.42	1.40	0.23	0.20
Max. Circuit Ampacity (Amps)	35	20	20	5	4
Min. Circuit Ampacity (Amps)	23	14	13	3	2
Refrigerant R-410A (oz/g)	16.0/454	15.0/425	15.5/439	N/A	N/A
Height (in/mm)	8.00/203			7.40/188	
Width (in/mm)	30.25/768			22.25/566	
Depth (in/mm)	14.00/356			11.00/280	
Min. Duct Size (in/mm)	7.0/178			7.0/178	
Min. SA Grille (sq. in/sq. cm)	80/516			80/516	
Min. RA Grille (sq. in/sq. cm)	160/1032			160/1032	
Net Weight (lbs/kg)	70/154			19/9	
Gross Weight (lbs/kg)	80/176			29/13	

¹ BTU and electrical data are based on a 45°F (7.2°C) evaporator and 100°F (37.8°C) condenser in cool mode, and a 45°F (7.2°C) evaporator and 130°F (54.4°C) condenser in heat mode.

² Note: 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate says otherwise.

Available Custom Air Flow Accessories:

- #229000005 PLNM AMN RA VLD16/2@5 in. Side Discharge Plenum
- #229000006 PLNM AMN RA VLD16/2@5 in. Upward Discharge Plenum
- #229000007 PLNM AMN RA VLD16/2@5 in. Downward Discharge Plenum
- #228700089 Ring ABS trans 5 in.-OB Short Flange



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Environmentally
Responsible

Dealer:

Vector Compact Self-Contained Systems

High-Capacity Air Conditioning In a Compact Package



Photo courtesy of Cruisers Yachts



VCD27K-HV-410A

The Vector Compact series of self-contained marine air conditioners offers 18K and 27K BTU/hr of cooling and heating.

These high-capacity units were engineered to harness and maximize the impressive performance of environmentally safe R-410A refrigerant. Used in the HVAC industry for more than 10 years, R-410A refrigerant is proven and reliable, and complies with all EPA standards and is accepted worldwide.

All models offer direct expansion operation in a compact, low-profile unit, with a seawater-cooled condenser and choice of controls. Vector Compact units are designed for installation under a settee or berth, in a locker or cabinet, or other convenient location.

Vector Compact systems feature high-velocity (HV) blowers. All blowers are insulated to prevent secondary condensation, and are fully rotatable for flexibility during installation.

Key Benefits

- Compact design reduces unit size by up to 25% of the original Vector Rotary's size.
- High-velocity, fully-insulated blowers.
- Fully rotatable blowers.
- Patented design increases cooling capacity and dehumidification.
- Unique compressor and reversing valve mounting reduces vibration.
- Electrical box installed on unit within footprint dimensions eliminates additional installation labor and space requirements.
- High-efficiency rotary (18K) and scroll (27K) compressors are quiet and more reliable.
- Condenser coil's cupronickel-encased copper shell provides maximum heat transfer and high corrosion resistance.
- Evaporator coil employs an enhanced fin design and rifled copper tubing to provide maximum capacity.

Technical Specifications for Vector Series Self-Contained Series

MODEL ⁽¹⁾	VCD18K-HV-410A			VCD27K-HV-410A	
Capacity BTU/hr ⁽²⁾	18,000			27,000	
Voltage (VAC)	115	208-230	220-240	208-230	220-240
Cycle (Hz)/Phase (Ph) ⁽³⁾	60/1	60/1	50/1	60/1	50/1
Full Load Amps (FLA) Cool	11.1	6.1	5.5	7.9	9.0
Full Load Amps (FLA) Heat	15.1	8.0	6.8	11.1	12.6
Locked Rotor Amps (Comp)	66.0	32.0	26.0	58.3	61.0
Kilo-Volt-Amps (KVA)	1.8	1.9	1.6	2.6	3.1
Max. Circuit Breaker (Amps)	45.0	20.0	20.0	45.0	45.0
Min. Circuit Ampacity (Amps)	27.0	12.0	12.0	27.0	26.0
R-410A Refrigerant (oz/kg)	17.0/0.482		16.5/0.468	23.5/667.0	23.0/652.0
Height – Evap. (in/mm)	14.00/356			18.00/457	
Height – Blower (in/mm) ⁽⁴⁾	15.50/394			19.25/489	
Width (in/mm)	12.00/305			15.25/387	
Depth (in/mm)	21.00/533			24.75/629	
Min. Duct Diameter (in/mm)	7.00/178			8.00/203	
Min. Supply Grille (sq. in/sq. cm)	100.00/645			140.00/903	
Min. Return Grille (sq. in/sq. cm)	200.00/1290			240.00/1548	
Net Weight (lbs/kg)	63.8/28.9			120.0/54.4	
Gross Weight (lbs/kg)	73.0/33.1			130.0/58.9	

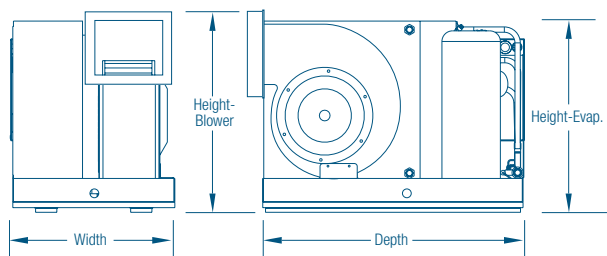
¹ VCD indicates Passport I/O microprocessor control system; VCM indicates a mechanical control.

² BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat.

³ 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate states otherwise.

⁴ Height with blower in the horizontal position. Overall height can be reduced by rotating blower downward.

Dimensions



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Environmentally
Responsible

Dealer:

Emerald Series (6K-16K) Condensers

Innovative Chassis Conquers Installation Challenges

Uses
R-410A

Photo courtesy of Viking Yachts



ED12 shown

After listening to boat builders, global service teams and boat owners, Dometic engineers designed the innovative Emerald Condenser series to harness and maximize the impressive performance of R-410A refrigerant while meeting all international clean air standards.

The increase in BTU capacity is due primarily to the improved refrigerant metering design. The bi-flow thermal expansion valve for cooling provides up to a 14% increase in system capacity, which, when combined with a separate metering system for heating, attains an increase of up to 10% in heating performance. The amperage reduction of up to 27% is due to the more efficient design of the rotary compressor and properly sized refrigerant components.

The compact design of the Emerald series incorporates built-in vibration-isolating mounts, two large drain connections and numerous mounting options for installation to a smooth deck, stringer or existing rack. The incorporated lifting handles and smooth bottom allows for easy lifting and quick placement of the unit. The molded composite no-rust drain pan is shaped to provide positive drainage even when the boat heaves and rolls. The amount of standing water in the drain pan is reduced by up to 85%, which is 8x times less than a typical drain pan.

Emerald condensers can be installed quickly and easily. The drain, seawater and refrigerant connections are conveniently located to conquer installation challenges thus reducing installation time by up to fifteen minutes. The electrical box can be easily removed and located up to 5 ft. (1.5 m) away, further reducing the size of the unit while making the system more accessible. The reversing valve, pressure switches and service ports are centrally located, high on the unit for access from any side.

Key Benefits

- Up to 17.5% increase in BTU capacity
- Up to 41% amperage reduction
- Up to 32% reduced start-up amps
- Up to 16% smaller
- Up to 25% lighter
- Up to 85% reduction in standing water in the drain pan
- Up to 15 minutes faster to install
- Square chassis for easy installation in tight spaces
- Three mounting options adapt to installation environments
- Rust-free composite drain pan
- Reconfigurable chassis allows optimal drain connections
- Cushioned compressor mounts reduce noise and vibration
- Built-in refrigerant line filter drier reduces installation time and protects the compressor from moisture and contaminants
- Reversing valve, pressure switches, and service ports centrally located for easy maintenance access from any side
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant

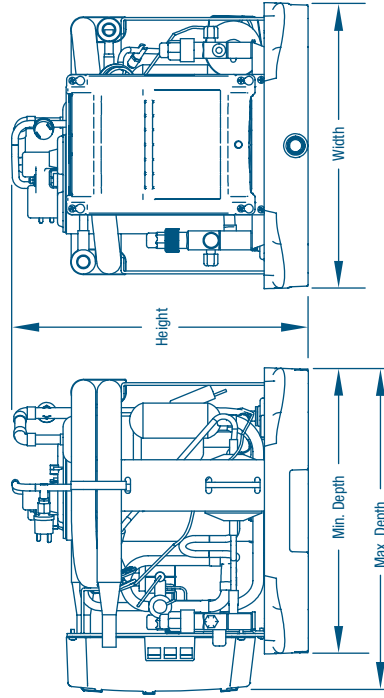
Technical Specifications for Emerald Condenser 6K-16K Series

MODEL ⁽¹⁾	ED6			ED8			ED10			ED12			ED16			
	Capacity (BTU/Hr)	115/60/1	230/60/1	240/50/1	115/60/1	230/60/1	240/50/1	115/60/1	230/60/1	240/50/1	115/60/1	230/60/1	240/50/1	115/60/1	230/60/1	240/50/1
Power (Volt/Hz/Ph)	6,000	3.8	1.8	2.4	4.2	2.4	2.4	5.6	2.6	2.4	7.6	3.4	2.8	8.8	4.3	3.9
Full Load Amps (FLA) – Cool		5.1	2.4	3.3	5.8	3.3	3.3	7.7	3.6	3.3	9.8	4.5	3.8	12.0	5.8	5.3
Full Load Amps (FLA) – Heat		36.0	17.7	17.7	36.0	17.7	17.7	42.0	22.0	18.8	58.0	28.0	21.0	62.0	34.0	22.0
Locked Rotor Amps		15.0	10.0	10.0	15.0	10.0	10.0	25.0	15.0	10.0	30.0	15.0	10.0	40.0	15.0	15.0
Max. Circuit Breaker (Amps)		11.0	7.0	6.0	11.0	6.0	6.0	15.0	9.0	8.0	18.0	10.0	8.0	23.0	11.0	10.0
Min. Circuit Ampacity		R-410A			R-410A			R-410A			R-410A			R-410A		
Refrigerant Type		1.5/5.7			2.0/7.6			2.5/9.5			3.0/11.4			4.0/15.1		
Seawater Flow (gpm/lpm)		12.0/305			12.0/305			13.0/330			13.0/330			14.1/358		
Height (in/mm)		13.3/338			13.3/338			13.3/338			13.3/338			13.3/338		
Width (in/mm)		15.1/384			15.1/384			15.1/384			15.1/384			15.1/384		
Min. Depth (in/mm) ⁽²⁾		5/8 in. hose clamp			5/8 in. hose clamp			5/8 in. hose clamp			5/8 in. hose clamp			5/8 in. hose clamp		
Max. Depth (in/mm) ⁽³⁾		1/4 in.			1/4 in.			1/4 in.			1/4 in.			1/4 in.		
Seawater Connection		3/8 in.			3/8 in.			3/8 in.			3/8 in.			3/8 in.		
Discharge Connection		43.0/19.5			43.0/19.5			45.0/20.4			47.0/21.3			49.0/22.2		
Suction Connection		50.0/22.7			50.0/22.7			52.0/23.6			54.0/24.5			56.0/25.4		
Net Weight (lbs./kg.)																
Gross Weight (lbs./kg.)																

¹ ED units have a Passport I/O microprocessor control. For units with a mechanical control, replace the "D" with "M", e.g. "EM16".
² Actual unit depth when electrical box is mounted remotely.
³ Combined depth of unit and electrical box, as shown in the drawing below.

Electrical Box Dimensions (in/mm)

HEIGHT	WIDTH	DEPTH
8.75/222	6.50/165	2.63/67



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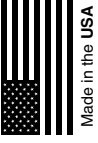
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L-2703A Rev. 20110930

Specifications and availability subject to change without notice.

Dealer:



Emerald Series (24K-72K) Condensers

Innovative Chassis Conquers Installation Challenges

Uses
R-410A



ED30 shown

After listening to boat builders, global service teams and boat owners, Dometic engineers designed the innovative Emerald Condenser series to harness and maximize the impressive performance of R-410A refrigerant while meeting all international clean air standards.

The compact design of the Emerald series incorporates built-in vibration-isolating mounts, two large drain connections and numerous mounting options for installation to a smooth deck, stringer or existing rack. The incorporated lifting handles and smooth bottom allows for easy lifting and quick placement of the unit. The molded composite no-rust drain pan is shaped to provide positive drainage even when the boat heaves and rolls. The amount of standing water in the drain pan is reduced by up to 85%, which is 8x times less than a typical drain pan.

Emerald condensers can be installed quickly and easily. The drain, seawater and refrigerant connections are conveniently located to conquer installation challenges thus reducing installation time by up to fifteen minutes. The electrical box can be easily removed and located up to 5 ft. (1.5 m) away, further reducing the size of the unit while making the system more accessible. The reversing valve, pressure switches and service ports are centrally located, high on the unit for access from any side.

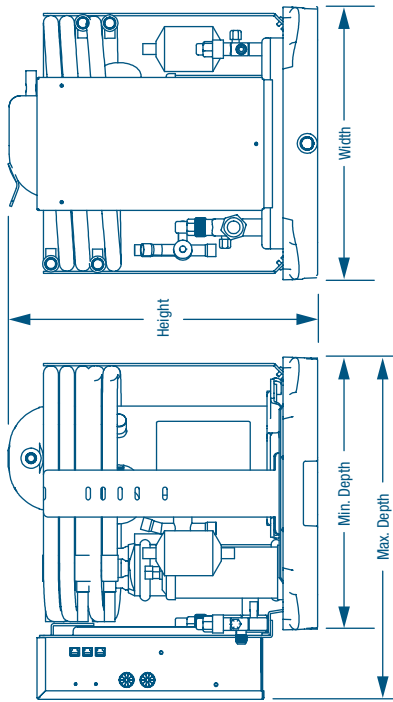
Key Benefits

- Up to 85% reduction in standing water in the drain pan
- Up to 15 minutes faster to install
- Square chassis for easy installation in tight spaces
- Three mounting options adapt to installation environments
- Rust-free composite drain pan
- Reconfigurable chassis allows optimal drain connections
- Cushioned compressor mounts reduce noise and vibration
- Built-in refrigerant line filter drier reduces installation time and protects the compressor from moisture and contaminants
- Reversing valve, pressure switches, and service ports centrally located for easy maintenance access from any side
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant

Technical Specifications for Emerald Condenser Multi-Ton Series

MODEL ⁽¹⁾	ED24					ED30					ED36					ED48					ED60					ED72									
	24,0000					30,0000					36,000					48,000					60,000					72,000									
Capacity (BTU/Hr) ⁽²⁾	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380
Voltage (VAC)	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3
Cycle (Hz)/Phase (Ph) ⁽³⁾	6.3	6.8	4.9	2.4	2.7	7.3	8.0	5.4	2.7	3.2	9.1	9.4	6.3	3.3	4.4	11.9	12.1	8.2	3.8	4.2	13.6	14.4	10.2	5.3	5.6	15.5	21.5	11.2	6.0	8.0	15.5	21.5	11.2	6.0	8.0
Full Load Amps (FLA) – Cool	7.8	8.6	6.6	3.2	3.6	9.2	10.4	7.3	3.6	4.2	11.5	12.2	8.3	4.2	5.9	15.7	17.9	10.9	5.0	5.7	20.2	21.4	12.7	6.6	7.6	23.0	29.1	14.8	7.4	10.8	23.0	29.1	14.8	7.4	10.8
Full Load Amps (FLA) – Heat	7.8	8.6	6.6	3.2	3.6	9.2	10.4	7.3	3.6	4.2	11.5	12.2	8.3	4.2	5.9	15.7	17.9	10.9	5.0	5.7	20.2	21.4	12.7	6.6	7.6	23.0	29.1	14.8	7.4	10.8	23.0	29.1	14.8	7.4	10.8
Locked Rotor Amps (Comp)	43.0	48.0	55.0	22.4	28.0	54.0	64.0	58.0	28.0	38.0	74.0	84.0	71.0	38.0	45.0	105.0	115.0	95.0	45.0	55.0	145.0	155.0	120.0	60.0	70.0	145.0	155.0	120.0	60.0	70.0	145.0	155.0	120.0	60.0	70.0
K.V.A. (Kilo-Volt-Amps)	1.79	2.06	2.63	2.55	2.37	2.12	2.50	2.90	2.86	2.76	2.65	2.93	3.30	3.34	3.88	3.61	4.30	4.34	3.98	3.75	4.65	5.14	5.05	5.25	5.00	5.29	6.98	5.89	5.89	7.10	5.29	6.98	5.89	5.89	7.10
Max. Circuit Breaker (Amps)	30	32	25	15	15	35	35	30	15	15	45	45	40	30	30	70	70	50	20	30	80	80	55	30	30	90	90	60	30	40	90	90	60	30	40
Min. Circuit Ampacity (Amps)	20	20	15	10	10	25	25	20	10	10	30	30	25	20	20	45	45	30	15	20	50	50	35	20	20	60	60	35	20	25	60	60	35	20	25
Refrigerant R-410A (oz/g) ⁽⁴⁾	42/1191					48/1361					56/1588					64/1814					70/1984					76/2155					76/2155				
Height (in/mm)	18.0/457					18.0/457					18.0/457					18.5/470					20/508					20/508					20/508				
Width (in/mm)	16.0/406					16.0/406					16.0/406					16.0/406					16/406					16/406					16/406				
Min. Depth (in/mm)	16.0/406					16.0/406					16.0/406					16.0/406					16/406					16/406					16/406				
Max. Depth (in/mm) ⁽⁵⁾	18.8/478					18.8/478					18.8/478					18.8/478					18.8/478					18.8/478					18.8/478				
Refrigerant Line – Discharge	3/8 in.					3/8 in.					3/8 in.					3/8 in.					3/8 in.					3/8 in.					3/8 in.				
Refrigerant Line – Suction	5/8 in.					3/4 in.					3/4 in.					3/4 in.					3/4 in.					3/4 in.					3/4 in.				
Net Weight (lbs/kg)	110/50.0					115/52.3					120/54.5					135/61.4					150/68.2					155/70.5					155/70.5				
Gross Weight (lbs/kg)	125/56.8					130/59.1					135/61.4					150/68.2					165/75.0					170/77.3					170/77.3				

¹ ED units have a Passport I/O microprocessor control. For units with a mechanical control, replace the "D" with "M", e.g. "EM24".
² BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat.
³ 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz, unless data plate says otherwise.
⁴ Refrigerant charges shown are for R-410A.
⁵ Combined depth of unit and electrical box, as shown in the drawing below. For remote mounting, the electrical box dimensions are 13.25 in. high X 7.75 in. wide X 3.75 in. deep (337 mm X 197 mm X 95 mm).



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Dealer:

TurboVap Series Evaporators

Reduced Size, Noise & Power Draw

No-Rust
Drain Pan



TV12-230V shown



The TurboVap Series of direct expansion (DX) split-gas evaporators is based on the revolutionary engineering advancements of the award-winning Turbo self-contained air conditioning system. Featuring a rust-free molded composite drain pan, condensate water is rapidly removed at one of two easy-to-plumb drain locations. The pan also has innovatively designed anti-slosh ridges and “positive flow” channels to ensure condensate does not spill even in the roughest seas.

For improved installation ease and flexibility, the enclosed blower motor eliminates overhang and the blower can be rotated 270° with a single adjustment screw. The unit’s unique inlet ring is designed to optimize air flow and ensure that the height of the unit does not increase when the blower rotates. The fully insulated, high-velocity blowers are quiet and efficient.

Experience better noise reduction with the TurboVap Series’ built-in cushioning system which minimizes vibration to the deck. Additionally, the innovative mounting clips utilize vibration isolators.

TurboVap units can be paired with condensers that use either R-22 or R-417A refrigerants. See the Emerald Series of TurboVaps and condensers for a complete split system that uses R-410A refrigerant.

The rust-free molded composite drain pan reduces standing water – 2 oz. (59 ml) vs. 16 oz. (473 ml) in ordinary pans. Innovatively engineered “positive flow” drain channels prevent the sloshing and spilling of condensate — even in the roughest seas.



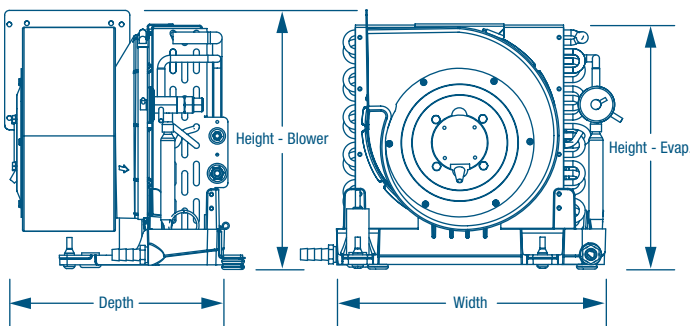
Key Benefits

- Up to 28% reduced amperage
- Up to 85% reduction in standing water in the drain pan
- Up to 14% increase in cooling capacity
- Up to 15% lighter
- Up to 17% reduction in height
- Up to 19% increased air flow CFM
- Rust-free composite drain pan
- Drain pan features anti-slosh, “positive-flow” drain channels for no spills and rapid removal of condensate
- Up to 15 minutes faster to install
- Single adjustment screw for 270 degrees of blower rotation
- High-velocity blowers with internal motor to reduce depth
- Cushioned mounts reduce noise and vibration
- 115V and 230V models
- Can be used with R-22 or R-417A condensers

Technical Specifications for TurboVap DX Evaporators

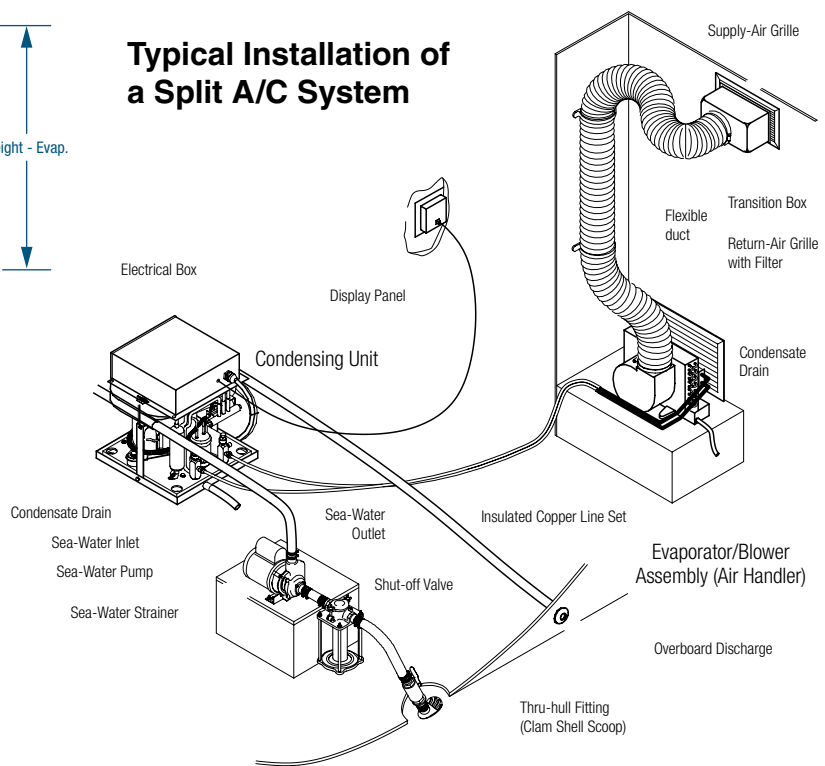
MODEL ⁽¹⁾	TV4		TV6		TV8		TV10		TV12		TV16	
Capacity BTU/hr	4,000		6,000		8,000		10,000		12,000		16,000	
Voltage (VAC) @ 50-60Hz/1-Ph	115	230	115	230	115	230	115	230	115	230	115	230
Full Load Amps Blower (FLA)	0.8	0.41	0.8	0.41	1.56	0.83	1.14	0.61	1.14	0.61	1.61	0.78
K.V.A. (Kilo-Volt-Amps)	0.09	0.09	0.09	0.09	0.18	0.19	0.13	0.14	0.13	0.14	0.19	0.18
Suggested Circuit Breaker (Amps)	2.0	1.0	2.0	1.0	4.0	2.0	3.0	1.0	3.0	1.0	4.0	2.0
Height – Evaporator (in/mm)	10.8/274		10.8/274		10.8/274		12.6/320		12.6/320		13.0/330	
Height – Blower (in/mm) ⁽²⁾	10.2/259		10.2/259		11.4/290		12.4/315		12.4/315		13.6/345	
Width (in/mm)	12.3/312		12.3/312		12.3/312		14.3/363		14.3/363		14.3/363	
Depth (in/mm)	9.5/241		9.5/241		9.4/239		10.4/264		10.4/264		11.6/295	
Min. Duct Size (in/mm)	4.0/102		4.0/102		5.0/127		6.0/152		6.0/152		7.0/178	
Min. Supply Air Grille (sq. in./sq. cm)	32/206		32/206		48/310		60/387		70/452		81/523	
Min. Return Air Grille (sq. in./sq. cm)	64/413		64/413		80/516		110/710		130/839		160/1032	
Net Weight (lbs./kg.)	10.5/4.8		11.0/5.0		14.0/6.4		17.5/7.9		17.5/7.9		20.5/9.3	
Gross Weight (lbs./kg.)	18.5/8.4		19.0/8.6		22.0/10.0		25.5/11.6		25.5/11.6		28.5/12.9	

¹ End all model numbers with a '115V' or '230V' depending on the selected voltage.
² Add 2.0 in./51 mm to the height dimension to allow for the duct ring (not included) when the blower is installed in the vertical position.



TurboVap 12K unit shown with optional lineset extensions.

Typical Installation of a Split A/C System



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Environmentally Responsible

Dealer:

Emerald TurboVap Series Evaporators

Reduced Size, Noise & Power Draw

No Rust
Drain Pan



TVE12-230V shown



The Emerald TurboVap series of split-gas evaporators incorporates revolutionary design features with mechanical engineering that maximizes the effectiveness of R-410A, an environmentally safe refrigerant.

Emerald TurboVaps are easy to install. For ideal positioning, the high-velocity blower can rotate up to 270 degrees with a single adjustment screw. The enclosed motor means no blower-motor overhang for a compact design.

Since evaporators are usually positioned in or near cabins, noise is always a concern. The Emerald TurboVap uses a vibration-isolation mounting system to minimize noise, so the evaporator runs more quietly. The fully insulated, high-velocity blowers are quiet and efficient.

Excellent condensate drainage is achieved with a unique positive-flow, anti-slosh, composite drain pan that is rust-free. Condensate water is rapidly removed at one of two easy-to-plumb drain locations.

The Emerald TurboVap Series was designed to operate as a system with the Emerald Condenser Series. Both of these split-system components were engineered to harness and maximize the superior thermodynamic properties of the environmentally safe R-410A refrigerant.

The Emerald TurboVap is available in six capacities ranging from 4,000 to 16,000 BTU/hr.

The rust-free molded composite drain pan reduces standing water – 2 oz. (59 ml) vs. 16 oz. (473 ml) in ordinary pans. Innovatively engineered “positive flow” drain channels prevent the sloshing and spilling of condensate — even in the roughest seas.



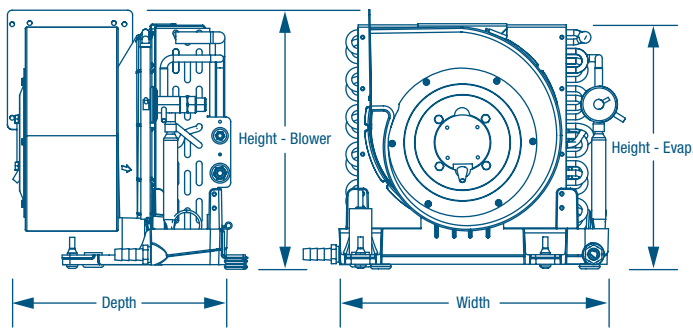
Key Benefits

- Up to 28% reduced amperage
- Up to 85% reduction in standing water in the drain pan
- Up to 14% increase in cooling capacity
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- Up to 17% reduction in height
- Up to 19% increased air flow CFM
- Rust-free composite drain pan
- Drain pan features anti-slosh, “positive-flow” drain channels for no spills and rapid removal of condensate
- Up to 15 minutes faster to install
- Single adjustment screw for 270 degrees of blower rotation
- High-velocity blowers with internal motor to reduce depth
- Cushioned mounts reduce noise and vibration
- 115V and 230V models
- Designed to be used with Emerald Series (R-410A) condensers

Technical Specifications for Emerald TurboVap DX Evaporators

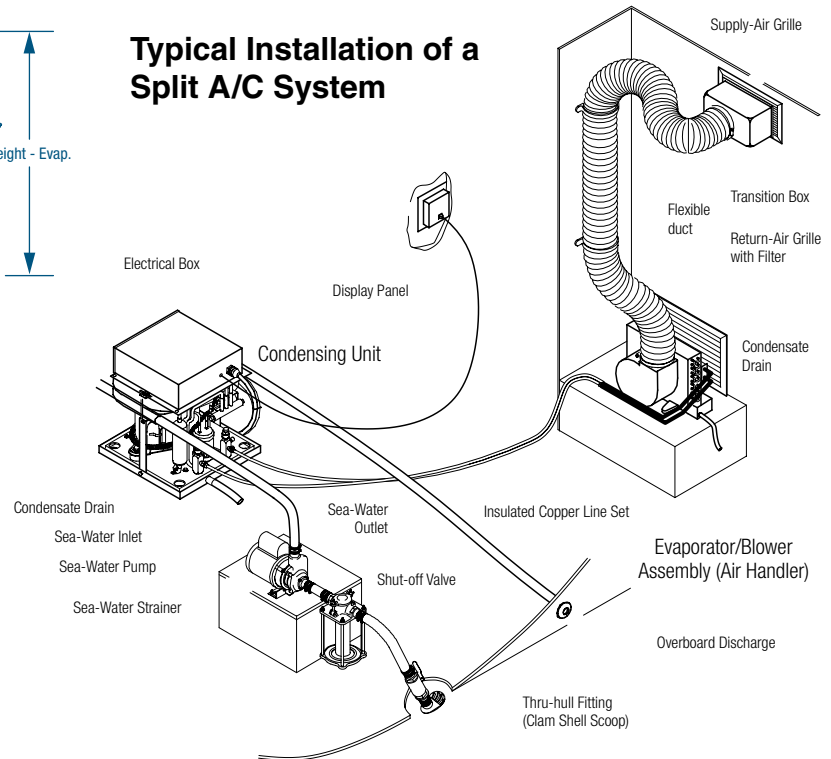
MODEL ⁽¹⁾	TVE4		TVE6		TVE8		TVE10		TVE12		TVE16	
Capacity BTU/hr	4,000		6,000		8,000		10,000		12,000		16,000	
Voltage (VAC) @ 50-60Hz/1-Ph	115	230	115	230	115	230	115	230	115	230	115	230
Full Load Amps Blower (FLA)	0.8	0.41	0.8	0.41	1.56	0.83	1.14	0.61	1.14	0.61	1.61	0.78
K.V.A. (Kilo-Volt-Amps)	0.09	0.09	0.09	0.09	0.18	0.19	0.13	0.14	0.13	0.14	0.19	0.18
Suggested Circuit Breaker (Amps)	2.0	1.0	2.0	1.0	4.0	2.0	3.0	1.0	3.0	1.0	4.0	2.0
Height – Evaporator (in/mm)	10.8/274		10.8/274		10.8/274		12.6/320		12.6/320		13.0/330	
Height – Blower (in/mm) ⁽²⁾	10.2/259		10.2/259		11.4/290		12.4/315		12.4/315		13.6/345	
Width (in/mm)	12.3/312		12.3/312		12.3/312		14.3/363		14.3/363		14.3/363	
Depth (in/mm)	9.5/241		9.5/241		9.4/239		10.4/264		10.4/264		11.6/295	
Min. Duct Size (in/mm)	4.0/102		4.0/102		5.0/127		6.0/152		6.0/152		7.0/178	
Min. Supply Air Grille (sq. in./sq. cm)	32/206		32/206		48/310		60/387		70/452		81/523	
Min. Return Air Grill (sq. in./sq. cm)	64/413		64/413		80/516		110/710		130/839		160/1032	
Net Weight (lbs./kg.)	10.5/4.8		11.0/5.0		14.0/6.4		17.5/7.9		17.5/7.9		20.5/9.3	
Gross Weight (lbs./kg.)	18.5/8.4		19.0/8.6		22.0/10.0		25.5/11.6		25.5/11.6		28.5/12.9	

¹ End all model numbers with a '115V' or '230V' depending on the selected voltage.
² Add 2.0 in./51 mm to the height dimension to allow for the duct ring (not included) when the blower is installed in the vertical position.



Emerald 12K unit shown with optional lineset extensions.

Typical Installation of a Split A/C System



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Dealer:

CS Series (6K-16K) Condensing Units

Seawater-Cooled Condensers With Reverse-Cycle Heating



CSD12K shown



The CS series of condensing units provide heating and cooling ability in a highly efficient package. The hermetically sealed, high-efficiency compressor reduces amp draw, while pressure switches, thermal-overload and start components provide constant system protection and proper operation. In addition, the expansion device and check-valve assemblies control load balancing during operation. The system's copper-encased cupronickel condenser coils are highly resistant to corrosion that can be caused by continuous seawater flow.

The symmetrical base design provides optimum space efficiency and installation flexibility for easy handling and positioning of the unit. A built-in hose barb aids in complete condensate removal from the drain pan. Two sets of vibration isolators ensure quiet operation.

The electrical box can be mounted remotely. It has a moisture-resistant design with a corrosion-resistant enclosure. CS Digital (CSD) units include the Passport I/O circuit board.

As with all Marine Air products, quality is assured. Each unit is pre-charged, test-run in all operating modes, and leak-checked at the factory prior to shipping. All surface components are constructed of or coated with materials resistant to fire and corrosion. Charge Guard® protection provides sealed access ports that ensure environmental protection and system integrity. All CS condensing units meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration Industry (ARI) standards.

Key Benefits

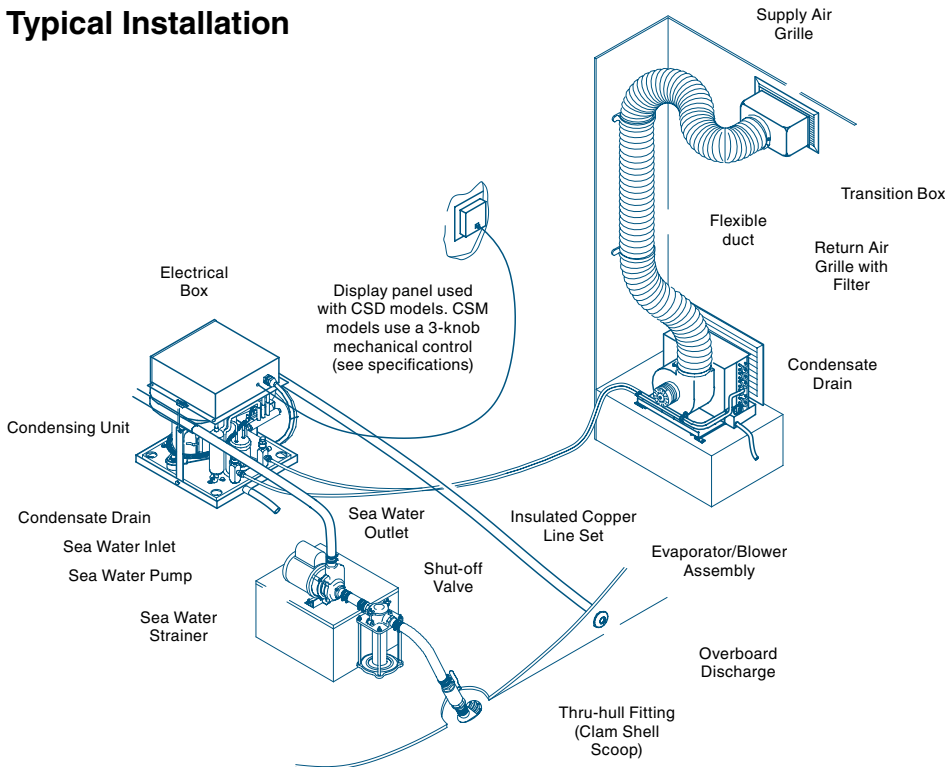
- Models available in 6K, 9K, 12K, and 16K BTU/Hr (60Hz and 50Hz)
- High-efficiency system with reduced amp draw
- Valves and switches provide load balancing and constant system protection
- Symmetrical base for installation flexibility and ease of handling
- Remote-mountable, moisture-resistant and corrosion-resistant electrical box
- Passport I/O circuit board included in electrical box of CSD systems
- Factory pre-charged, tested, and leak-checked prior to shipping
- Meets or exceeds all applicable standards and regulations

Technical Specifications for CS Series (6K-16K) Condensing Units

MODEL ⁽¹⁾⁽²⁾	CSD6K			CSD9K			CSD12K			CSD16K					
Capacity in BTU/hr	6,000						9,000			12,000			16,000		
Voltage (VAC) ⁽³⁾	115	208-230	220-240	115	208-230	220-240	115	208-230	220-240	115	208-230	220-240			
Cycle (Hz)/Phase (Ph) ⁽⁴⁾	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1			
R-22 Refrigerant (oz/kg)	20/0.6	20/0.6	20/0.6	21/0.6	21/0.6	21/0.6	24/0.7	24/0.7	24/0.7	24/0.7	24/0.7	24/0.7			
417A Refrigerant (oz/kg)	22/0.6	22/0.6	22/0.6	N/A	20/0.6	20/0.6	20/0.6	20/0.6	24/0.7	N/A	21/0.6	21/0.6			
Full Load Amps (FLA) Cool	7.0	3.7	4.1	6.4	3.2	4.6	8.4	4.4	5.4	12.2	5.7	7.0			
Full Load Amps (FLA) Heat	7.7	4.0	4.8	7.2	3.6	5.2	9.2	5.0	6.0	13.5	6.4	8.0			
Locked Rotor Amps (Comp) ⁽⁵⁾	34.0	20.0	21.2	40.0	20.0	25.6	50.0	31.0	31.0	75.0	36.0	39.0			
Kilo-Volt-Amps (KVA) Heat	0.9	0.9	1.2	0.8	0.8	1.2	1.1	1.2	1.4	1.6	1.5	1.9			
Max. Circuit Breaker (Amps)	20	10	10	20	10	15	30	15	15	40	20	25			
Min. Circuit Ampacity (Amps)	13	8	7	13	7	10	17	10	11	25	12	15			
Base Valves (Disch. X Suction)	1/4" X 3/8"			1/4" X 3/8"			1/4" X 3/8"			1/4" X 1/2"					
Height (in/mm) ⁽⁶⁾	15.20/386			15.20/386			15.20/386			15.20/386					
Width (in/mm)	13.13/334			13.13/334			13.13/334			13.13/334					
Depth (in/mm)	13.13/334			13.13/334			13.13/334			13.13/334					
Net Weight (lb/kg) ⁽⁷⁾	56/25.5			64/29.1			66/30.0			66/30.0					
Gross Weight (lb/kg) ⁽⁷⁾	63/28.6			74/33.6			75/34.0			75/34.0					

- ¹ BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat mode.
- ² CSD indicates Passport I/O microprocessor control. Change to CSM for mechanical control. Add a 'Z' or 'Z50' after the 'K' in the 6K-16K model numbers to denote 208-230V/60Hz or 240-220V/50Hz respectively.
- ³ Electrical specifications are for reverse cycle units, straight cool units might use smaller circuit breakers.
- ⁴ Some standard 60Hz units may be operated at 50Hz, at reduced voltages. However, there will be a loss in capacity, and the amp draw may be higher or lower than listed. Dedicated 50Hz units are available that provide full capacity, but these can not be operated at 60Hz. For more information regarding compressor voltages, refer to field notice FN#192-B3 on Dometic Corporation - Environmental Systems' Customer News & Information website.
- ⁵ Compressor locked rotor amps (LRA) will vary with voltage and load, and may be higher or lower than listed.
- ⁶ Electrical box height is 2.6 in./66 mm; subtract that from unit height if box will be remotely mounted.
- ⁷ Weights are based on 60Hz/1Ph equipment.

Typical Installation



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Environmentally Responsible

Dealer:

CS Series (24K-60K) Condensing Units

Seawater-Cooled Condensers With Reverse-Cycle Heating



Photo courtesy of Cruisers' Yachts

CSD36K shown



The CS series of multi-ton condensing units provide heating and cooling ability in a highly efficient package. The hermetically sealed, high-efficiency compressor reduces amp draw, while pressure switches, thermal-overload and start components provide constant system protection and proper operation. In addition, the expansion device and check-valve assemblies control load balancing during operation. The system's copper-encased cupronickel condenser coils are highly resistant to corrosion that can be caused by continuous seawater flow.

The symmetrical base design provides optimum space efficiency and installation flexibility for easy handling and positioning of the unit. A built-in hose barb aids in complete condensate removal from the drain pan. Two sets of vibration isolators ensure quiet operation.

The electrical box can be mounted remotely. It has a moisture-resistant design with a corrosion-resistant enclosure. CS Digital (CSD) units include the Passport I/O circuit board.

As with all Marine Air products, quality is assured. Each unit is pre-charged, test-run in all operating modes, and leak-checked at the factory prior to shipping. All surface components are constructed of or coated with materials resistant to fire and corrosion. Charge Guard® protection provides sealed access ports that ensure environmental protection and system integrity. All CS condensing units meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration Industry (ARI) standards.

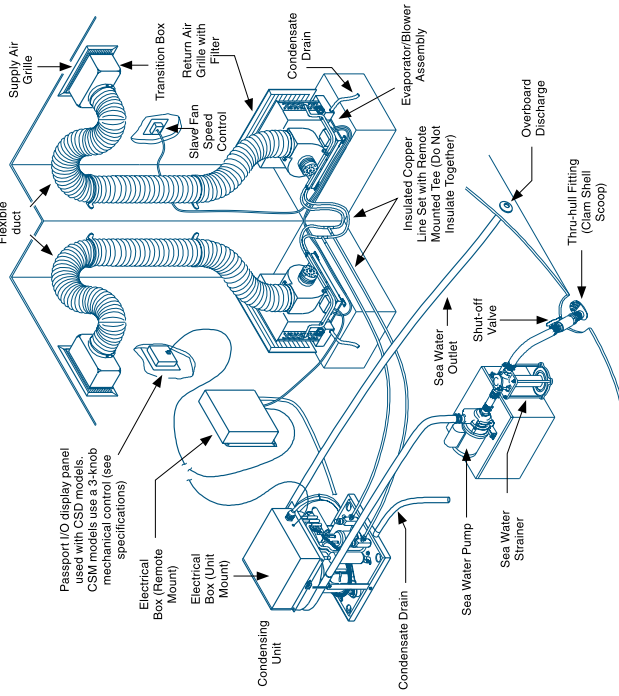
Key Benefits

- Models available in 24K, 30K, 36K, 48K, and 60K BTU/Hr (60Hz and 50Hz)
- High-efficiency system with reduced amp draw
- Valves and switches provide load balancing and constant system protection
- Symmetrical base for installation flexibility and ease of handling
- Remote-mountable, moisture-resistant and corrosion-resistant electrical box
- Passport I/O circuit board included in electrical box of CSD systems
- Factory pre-charged, tested, and leak-checked prior to shipping
- Meets or exceeds all applicable standards and regulations

Technical Specifications for CS Series (24K-60K) Condensing Units

MODEL ⁽¹⁾⁽²⁾	CS*24R			CS*30R			CS*36R			CS*48R			CS*60R				
	Capacity in BTU/hr	24,000	30,000	36,000	48,000	60,000	208-230	220-240	208-230	220-240	208-230	220-240	208-230	220-240	208-230	220-240	440-460
Voltage (VAC) ⁽³⁾	208-230	208-230	208-230	208-230	220-240	220-240	208-230	220-240	208-230	220-240	208-230	220-240	208-230	220-240	208-230	220-240	440-460
Cycle (Hz)/Phase (Ph) ⁽⁴⁾	60/1	60/3	60/1	60/3	50/1	50/1	60/3	50/1	60/3	50/1	60/3	50/1	60/3	50/1	60/3	60/3	60/3
R-22 Refrigerant (oz/kg)	46/1.3	46/1.3	46/1.3	46/1.3	50/1.4	50/1.4	50/1.4	50/1.4	56/1.6	56/1.6	56/1.6	56/1.6	76/2.2	76/2.2	76/2.2	80/2.3	80/2.3
417A Refrigerant (oz/kg)	46/1.3	N/A	46/1.3	N/A	50/1.4	50/1.4	50/1.4	N/A	56/1.6	56/1.6	N/A	56/1.6	76/2.2	N/A	76/2.2	N/A	N/A
Full Load Amps (FLA) Cool	7.3	5.4	7.8	3.1	8.4	6.2	9.8	9.8	10.5	6.9	12.0	4.3	8.2	22.3	5.4	17.2	22.0
Full Load Amps (FLA) Heat	9.0	6.4	9.9	3.7	10.9	7.4	12.1	11.8	12.9	8.3	14.6	5.0	15.9	9.6	6.3	22.0	24.8
Locked Rotor Amps (Comp) ⁽⁵⁾	57.0	48.0	55.0	30.0	66.0	48.0	85.1	65.0	73.0	60.0	87.0	35.0	87.0	70.0	45.0	132.2	138.0
Kilo-Volt-Amps (KVA) Heat	2.1	2.5	2.4	2.7	2.5	2.9	2.8	2.8	3.0	3.3	3.5	3.6	3.7	3.7	4.5	5.1	6.0
Max. Circuit Breaker (Amps)	35	25	35	10	45	30	50	40	50	30	60	15	60	40	30	80	80
Min. Circuit Ampacity (Amps)	22	15	22	8	26	17	29	25	29	18	35	11	35	23	17	46	50
Base Valves (Disch. X Suct.)	3/8" X 5/8"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	3/8" X 3/4"	5/8" X 3/4"	5/8" X 3/4"
Height (in/mm) ⁽⁶⁾	21.0/546	21.0/546	21.0/546	21.0/546	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	25.50/648	28.0/732	28.0/732
Width (in/mm)	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	24.00/610	24.00/610
Depth (in/mm)	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	16.00/406	24.00/610	24.00/610
Net Weight (lb/kg) ⁽⁷⁾	115/52.4	115/52.4	127/57.6	127/57.6	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	132/59.9	145/65.8	145/65.8
Gross Weight (lb/kg) ⁽⁷⁾	120/54.4	120/54.4	132/59.9	132/59.9	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	140/63.5	181/81.6	181/81.6

¹ BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat mode.
² CSD indicates Passport I/O microprocessor control. Change to CSM for mechanical control. Add a 'Z' or 'Z50' after the 'K' in the 24K-60K model numbers to denote 208-230V/60Hz or 240-220V/50Hz respectively.
³ Electrical specifications are for reverse cycle units, straight cycle units might use smaller circuit breakers.
⁴ Some standard 60Hz units may be operated at 50Hz, at reduced voltages. However, there will be a loss in capacity, and the amp draw may be higher or lower than listed. Dedicated 50Hz units are available that provide full capacity, but these cannot be operated at 60Hz. For more information regarding compressor voltages, refer to field notice FN#192-B3 on Dometic Corporation - Environmental Systems' Customer News & Information website.
⁵ Compressor locked rotor amps (LRA) will vary with voltage and load, and may be higher or lower than listed.
⁶ Electrical box height is 3.6"/91 mm; subtract that from unit height if box will be remotely mounted.
⁷ Weights are based on 60Hz/1-ph. equipment.



Dealer:

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L-2126 Rev. 20080829 Specifications and availability subject to change without notice.

EBE Series R-410A Evaporators

The New Standard In High-Performance Evaporators

NEW


EBE18-230V

Compact EBE split evaporators are draw-through, ductable cooling units with reverse-cycle heating. Featuring a rotatable, high-efficiency permanent split capacitor (PSC) blower in which the motor is concealed, EBE series evaporators are available in capacities from 6K to 36K BTU/hr. EBHE units have electric heat.

The EBE Series was designed for installation low in a closet, cabinet, or other enclosed space, with discharge air ducted to one or more grilles high in the cabin. EBE units can be used with a combination of plenums and flexible duct, or built-in ductwork may be used. If you are using built-in ductwork, a flexible transition between the blower and duct should be installed.

Vibration-isolation mounting is built into each EBE unit to reduce noise and vibration. The PSC blower is supported by a sturdy aluminum bracket with isolation grommets to reduce possible vibration. The blower's internal motor housing reduces the overall unit depth for easier installation and promotes quieter operation.

The drain pan and blower housing are covered with insulating foam which reduces noise and secondary condensation.

The "positive flow" drain pan has an anti-slosh, antifungal foam lining. Two 1/2 in. (13 mm) drains are located on the blower side of the drain pan.

Marine Air DX evaporators can be controlled using the Elite or Passport I/O keypad displays on the Passport I/O control system.

Key Benefits

- Compact ductable cooling or heating units
- High-velocity blowers with internal motor to reduce depth
- Blowers are rotatable
- Insulated condensate pan with anti-slosh, anti-fungal foam lining
- Available with electric heat (EBHE models)
- High-efficiency evaporator coil
- Larger blower inlet for increased air flow across the coil
- Blower support bracket with cushioned mounts to reduce noise and vibration
- Increased metal thickness on structural parts for added strength
- Thermal expansion valve for optimal performance over a range of conditions
- Designed to be used with Emerald Series (R-410A) condensers

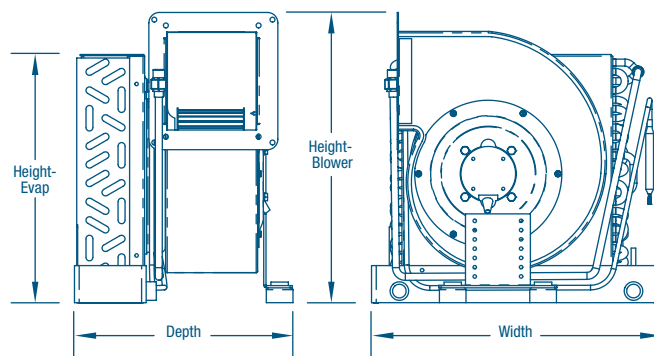
Technical Specifications for EBE Series Evaporators

MODEL ⁽¹⁾	CAPACITY (BTU/HR)	VOLTAGE (50/60HZ)	BLOWER AMPS	AIR FLOW (CFM/CMH)	ELEC. HEAT (KW/AMPS)	HEIGHT-EVAP. (IN/MM)	HEIGHT-BL. (IN/MM)	WIDTH (IN/MM)	DEPTH (IN/MM)	WEIGHT (LB/KG)
EBHE6-1kW-230V	6,000	230	0.98	233/395.91	1.0/4.35	11.25/286	12.50/318	13.75/350	12.00/305	14.00/6.35
EBHE8-1kW-230V	8,000	230	0.98	266/451.99	1.0/4.35	11.25/286	12.50/318	13.75/350	12.00/305	14.00/6.35
EBHE10-1.5kW-230V	10,000	230	0.66	333/565.83	1.5/6.52	12.50/318	13.50/343	14.25/362	13.75/349	22.00/9.98
EBHE12-2kW-230V	12,000	230	0.56	400/697.68	2.0/8.70	12.50/318	13.50/343	14.25/362	14.50/368	23.00/10.43
EBHE16-3kW-230V	16,000	230	1.15	533/905.67	3.0/13.04	13.50/343	15.50/394	16.00/406	14.75/375	30.00/13.61
EBE18-230V	18,000	230	1.13	540/917.47	N/A	13.63/346	15.13/384	16.00/406	14.00/356	32.00/14.51
EBE24-230V	24,000	230	1.62	800/1359.40	N/A	16.50/419	17.00/432	20.00/508	14.50/368	36.00/16.33
EBE30-230V	30,000	230	4.0	1000/1699.20	N/A	20.50/521	22.00/559	20.75/527	15.00/381	43.00/19.50
EBE36-230V	36,000	230	4.0	1200/2039.00	N/A	20.50/521	22.25/565	20.75/527	17.75/451	42.00/19.05

¹ EBHE models have electric heat, EBE models do not.

INTERPRETING MODEL NUMBERS						
E	B	H	E	X	XkW	230V
Evaporator	High-Efficiency Blower	Electric Heat	R-410A Refrigerant	x1,000 BTU/hr	Kilowatts of Electric Heat	Voltage

CAPACITY (BTU/HR.)	RETURN AIR GRILLE (SQ. IN./SQ. CM)	SUPPLY AIR GRILLE (SQ. IN./SQ. CM)	MINIMUM DUCT (IN./MM)
6,000	64/413	32/206	4/102
8,000	89/574	47/303	5/127
10,000	100/645	60/387	6/152
12,000	130/839	70/452	6/152
16,000	160/1032	80/516	7/178
18,000	200/1290	100/645	8/203
24,000	240/1548	140/903	8/203
30,000	350/2258	170/1097	10/254
36,000	360/2323	196/1265	10/254



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Dealer:

EFD Two-Ton Evaporator

With High-Efficiency Blower



E16FDZ shown

Marine Air's EFD 24,000 BTU/hr. evaporator features a compact, modular design. For maximum efficiency, the plenum chambers are increased and the coil has enhanced fins and rifled tubing. This unit also offers easy disassembly for access to components for maintenance. It works with Marine Air R-22 or R-417A condensers.

The centrifugal blower is quiet and efficient with a fully-insulated housing. For installation flexibility, the blower rotates to horizontal or vertical positions. The blower's internal motor reduces depth for easier installation. A thermoplastic mounting ring enables easy installation of ducting or transition box.

The condensate drain pan includes two ½ in. (13 mm) FPT drain hook-ups, and it is insulated to prevent sweating.

As with all Marine Air products, quality is assured. Each unit is pre-charged, test-run in all operating modes, and leak-checked at the factory prior to shipping. All surface components are constructed of or coated with materials resistant to fire and corrosion. Charge Guard® protection provides sealed access ports that ensure environmental protection and system integrity. Marine Air evaporators meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration Industry (ARI) standards.

Key Benefits

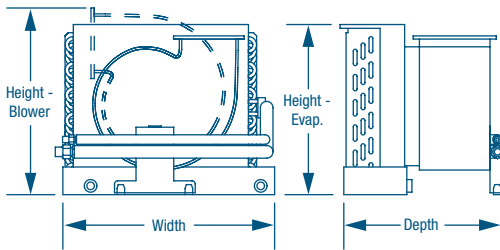
- Compact modular design with increased efficiency
- Easy disassembly for component access
- Quiet, efficient blower rotates to vertical or horizontal positions
- Insulated drain pan prevents sweating and includes two ½ in. (13 mm) FPT drain hook-ups
- Factory pre-charged, tested, and leak-checked prior to shipping.
- Meets or exceeds all applicable standards and regulations

Technical Specifications for E24FDZ

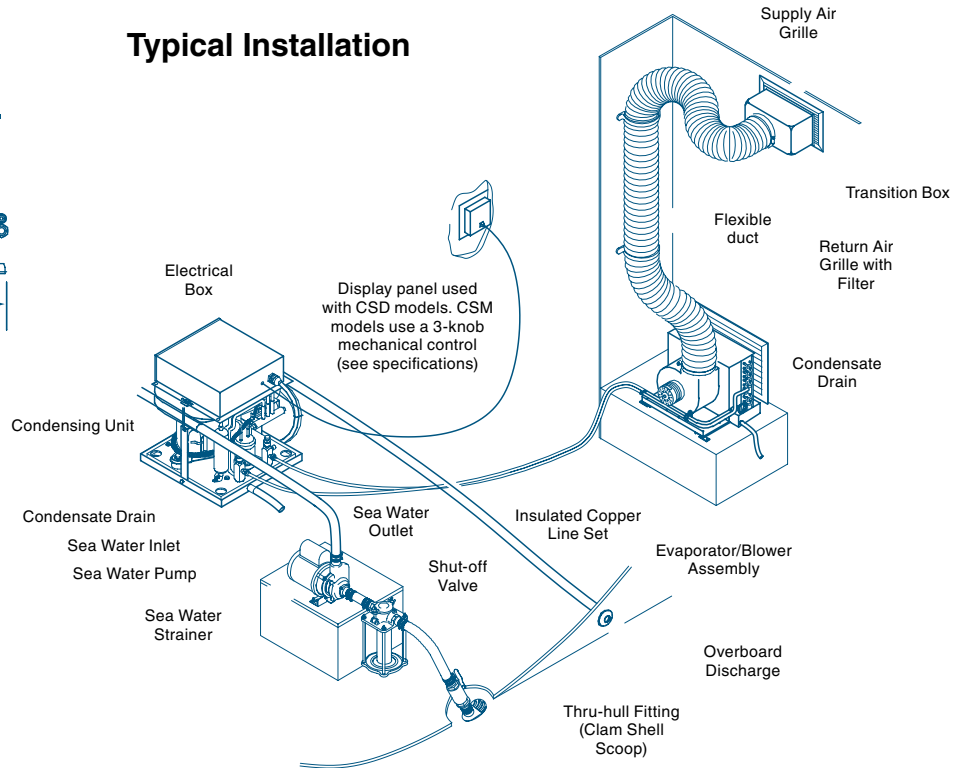
MODEL	E24FDZ
Capacity (BTU/hr)	24,000
Voltage @ 50/60Hz 1-Phase	230
Full Load Amps (FLA) Cool	0.80
Max. Circuit Breaker (Amps)	5
Min. Circuit Ampacity	1
Height - Evap. (in/mm)	16.50/419
Height - Blower (in/mm) ⁽¹⁾	N/A
Width (in/mm)	21.25/540
Depth (in/mm)	15.60/396
Net Weight (lbs/kg)	46.0/21.0
Gross Weight (lbs/kg)	54.0/24.5
Return Air Grille (sq. in/sq. cm)	240/1,548.5
Supply Air Grille (sq. in/sq. cm)	140/903.3
Min. Duct Size (in/mm)	8.0/203
Refrigerant Line Connection - Discharge (in/mm)	0.38/10
Refrigerant Line Connection - Suction (in/mm)	0.63/16

¹ With blower rotated in field.

Dimensions



Typical Installation



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Environmentally Responsible

Dealer:

Modular Chiller Compact Series

Flexibility In Space, Usage, and Layout



CHC16 shown

Marine Air's revolutionary Chiller Compact system is ideal for larger boats in the 45-70' (15-20 m) range. Available in capacities ranging from 16,000 to 24,000 BTU/hr, the Chiller Compact uses circulated water in a closed loop in place of copper refrigerant tubes. The innovative, space-saving compact base of the Chiller Compact was designed to allow individual modules to be multiplexed to provide precise capacity requirements for any application.

Featuring high efficiency components offering maximum performance, the Chiller Compact uses rotary or scroll compressors which are quieter and consume less power. A custom-fabricated condenser coil is constructed of spiral-fluted cupronickel to provide maximum heat transfer and high corrosion resistance.

The environmentally friendly, hermetically-sealed Chiller Compact units use closed-refrigerant circuits, pre-charged with refrigerant. No additional refrigerant is required during the installation or at initial start-up and operation of the system.

Key Benefits

- Compact base design allows flexibility in space, usage and layouts
- Individual modules can be multiplexed to provide precise capacity requirements
- Thermodynamically matched components assure maximum performance
- Rotary and Scroll compressors provide high efficiency performance with less power consumption and quieter operation
- Fewer moving parts ensure higher reliability.
- Condenser coil is custom fabricated of spiral fluted cupronickel to provide maximum heat transfer and high corrosion resistance
- Exclusive Digital Diagnostic Controller (DDC) with LED display monitors and protects the system through aquastats, high and low pressure switches, timers, freeze controls and high limit switches.
- Each unit is evacuated to below 500 microns, pre-charged, hermetically sealed, load tested and electronically calibrated at the factory.
- Charge Guard® protection provides sealed access ports, ensuring environmental protection and chiller module integrity.
- Meet or exceed applicable ABYC and U.S. Coast Guard regulations, CE Directives and general Air Conditioning and Refrigeration Industry (ARI) standards.

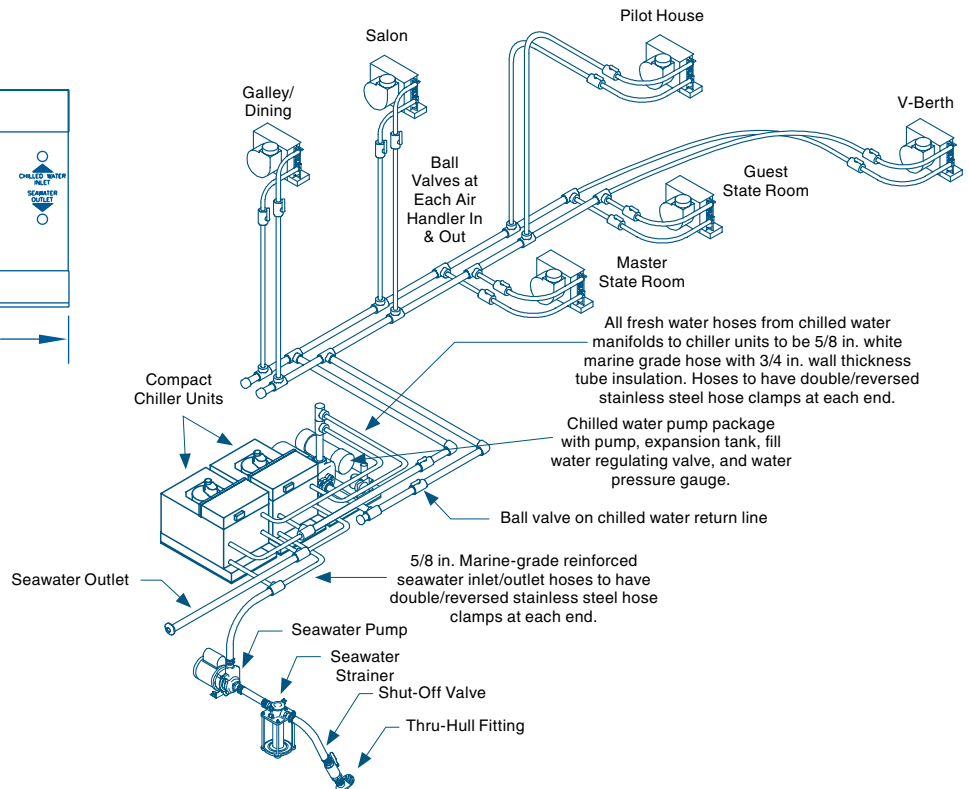
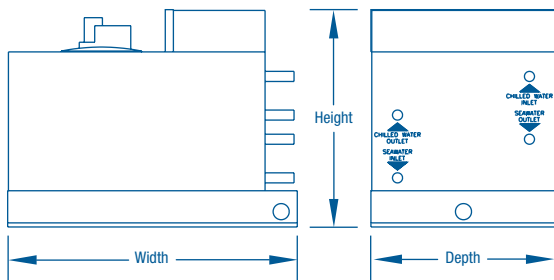
Technical Specifications for Chiller Compact Series

MODEL ⁽¹⁾	CHC16RC(Z, Z50)			CHC20RC(Z, Z50)			CHC24SRC(Z, Z50)							
Cooling Capacity (BTU/hr)	16,000			20,000			24,000							
Heating Capacity (BTU/hr)	17,600			22,000			26,400							
Voltage (VAC)	115	230	220	230	220	220	230	220	230	220	380	230	220	380
Cycle (Hz)/Phase (Ph)	60/1	60/1	50/1	60/1	50/1	50/1	60/1	50/1	60/3	50/3	50/3	60/1	50/1	50/3
Full Load Amps (FLA) Cool	8.0	3.8	4.3	5.3	6.1	6.3	6.6	7.5	4.7	4.7	2.7	6.5	7.5	3.1
Full Load Amps (FLA) Heat	11.9	5.6	6.2	7.6	8.4	9.1	8.9	10.4	6.0	7.1	3.5	9.6	10.4	4.1
Locked Rotor Amps (Comp)	67.0	29.0	32.0	45.0	52.0	52.0	54.0	56.0	45.0	56.0	26.0	56.0	56.0	32.0
Kilo-Volt-Amps (KVA)	1.4	1.3	10.4	1.7	1.8	2.0	2.0	2.3	2.4	2.7	2.3	2.2	2.3	2.7
Max. Circuit Breaker (Amps)	35.0	20.0	20.0	25.0	30.0	30.0	35.0	40.0	20.0	25.0	10.0	35.0	40.0	15.0
Min. Circuit Ampacity (Amps)	22.0	12.0	13.0	17.0	17.0	17.0	20.0	23.0	14.0	15.0	8.0	20.0	25.0	9.0
R-407C Refrigerant (oz/g)	10/283	10/283	10/283	N/A	N/A	12/340	N/A	N/A	N/A	N/A	N/A	N/A	13/367	18/510
Height (in/mm) ⁽²⁾	12.75/324	12.75/324	12.75/324	13.50/343	15.75/400		15.75/400							
Width (in/mm)	11.50/292	11.50/292	11.50/292	11.50/292	13.00/330		13.00/330							
Depth (in/mm)	18.00/457	18.00/457	18.00/457	18.00/457	18.00/457		18.00/457							
Net Weight 60Hz (lbs/kg)	52/23.6			65/29.5			84/38.1							
Net Weight 50Hz (lbs/kg)	58/26.3			84/38.1			101/45.8							
Gross Weight 60Hz (lbs/kg)	62/28.1			75/34.0			94/42.6							
Gross Weight 50Hz (lbs/kg)	68/30.8			94/42.6			111/50.3							

CHC PUMP PACKAGES ⁽¹⁾	PMA1000	P120	P700
Voltage (VAC)	115/230	115/230	115/230
Amps (60Hz/1Ph)	2.1/1.0	4.9/3.5	7.2/3.6
Net Weight (lb/kg)	24/10.9	39/17.7	40/18.1
Gross Weight (lb/kg)	30/13.6	45/20.4	46/20.9
Height (in/mm)	9.0/229 ⁽³⁾	7.5/191	8.0/203
Width (in/mm)	13.0/330	13.0/330	13.0/330
Depth (in/mm)	18.0/457	18.0/457	18.0/457

¹ Model numbers: CHC = Chiller Compact; 16, 20, 24 = BTU/H x 1000; RC = Reverse Cycle; Z = 230/60; Z50 = 220/50; 3 = 3 Phase; S = Scroll compressor (Rotary compressors are used on the 16 and 60Hz 20).
² Add 1.0 in. (25 mm) for mounting brackets. Brackets can be mounted on any side of base pan (depth or width).
³ The PMA1000 Pump Package is 9.0 in. (229 mm) tall at the water outlet and 7.5 in. (191 mm) tall at the pump.

Dimensions



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Environmentally Responsible

Dealer:

MCG Low-Profile Series Modular Chillers

Space-Saving Chiller Design



MCGLP5T
shown

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

MCG-LP modules 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 R-410A environmentally safe refrigerant has exceptional thermodynamic properties and maximizes system efficiency.

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

MCG-LP 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.

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

Key Benefits

- Fits into height-restrictive spaces.
- Reverse cycle standard.
- Stainless-steel drain pan (3–6 ton only).
- Lightweight painted aluminum drain pan (12.5–15 ton only).
- 3 to 15 ton capacities.
- Modules can be staged for larger capacities.
- Up to 25% more condenser area than similar units.
- Environmentally safe R-410A refrigerant.
- Electrical box remotely mounted up to 6' (1.8 m) away.
- 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 (3–6 ton only)

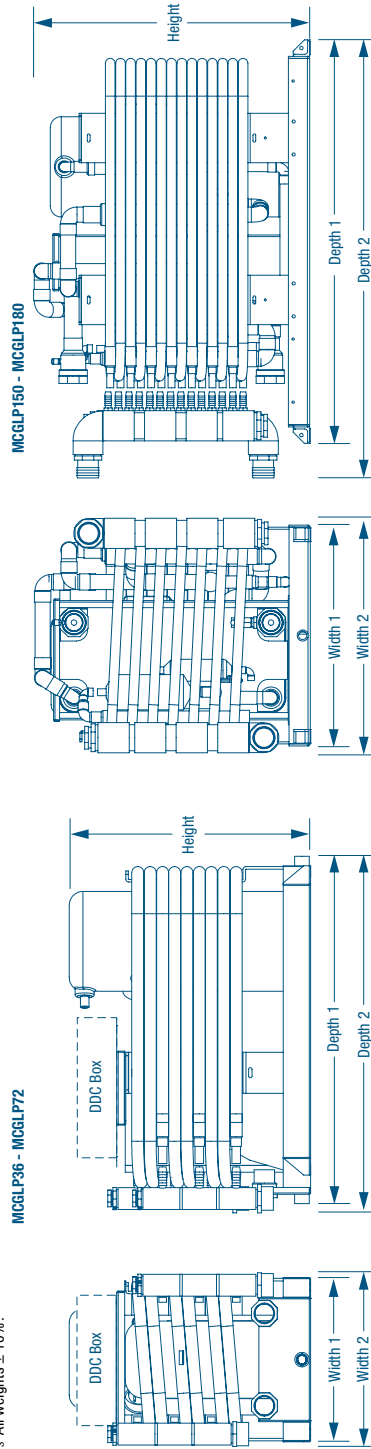
Technical Specifications for MCGLP Series Chillers

MODEL	CAPACITY (BTU/HR)	VOLTS/HZ/PH ⁽¹⁾	FLA COOL	FLA HEAT	LRA	HEIGHT ⁽²⁾ (IN/MM)	WIDTH 1 (IN/MM)	WIDTH 2 (IN/MM)	DEPTH 1 (IN/MM)	DEPTH 2 (IN/MM)	SEAWATER CONNECTION (IN/MM)	CHILLED WATER CONNECTION (IN/MM)	WEIGHT ⁽³⁾ (LBS/KG)	HEIGHT - DDC (IN/MM)	WIDTH - DDC (IN/MM)	DEPTH - DDC (IN/MM)	
MCGLP36	36,000	208-240/60/1	10.9	15.6	112.0	18.25/464	12.00/305	12.69/322	24.00/610	25.38/645	1.00/25	1.00/25	160/73	11.00/279	9.80/249	3.70/94	
		220-240/50/1	11.6	16.9	97.0												
		208-230/60/3	7.3	9.4	88.0												
		440-480/60/3	4.0	5.2	44.0												
MCGLP48	48,000	208-240/60/1	13.0	19.1	135.0	18.25/464	12.00/305	12.69/322	24.00/610	25.38/645	1.00/25	1.00/25	160/73	11.00/279	9.80/249	3.70/94	
		220-240/50/1	14.4	20.7	136.0												
		208-230/60/3	9.1	12.2	98.0												
		440-480/60/3	4.7	6.2	46.0												
MCGLP60	60,000	380-420/50/3	4.9	7.0	51.5												
		208-240/60/1	17.0	24.7	158.0	18.25/464	12.00/305	12.69/322	24.00/610	25.38/645	1.00/25	1.25/32	174/79	11.00/279	9.80/249	3.70/94	
		220-240/50/1	21.5	30.1	176.0												
		208-230/60/3	10.6	14.4	110.0												
MCGLP72	72,000	440-480/60/3	6.2	8.2	75.0												
		380-420/50/3	6.8	9.1	74.0												
		208-240/60/1	23.3	32.5	148.0	18.25/464	12.00/305	12.69/322	24.00/610	25.38/645	1.00/25	1.25/32	174/79	11.00/279	9.80/249	3.70/94	
		208-230/60/3	14.2	18.2	149.0												
MCGLP150	150,000	440-480/60/3	6.9	9.1	75.0												
		380-420/50/3	9.0	11.7	101.0												
		208-230/60/3	29.5	38.0	245.0	25.20/640	20.13/511	21.50/546	36.75/933	40.03/1,017	2.00/51	2.00/51	335/152	13.30/338	12.00/305	4.30/109	
		440-480/60/3	13.8	18.0	125.0												
MCGLP180	180,000	380-420/50/3	21.2	26.2	173.0												
		208-230/60/3	41.9	52.0	340.0	25.20/640	20.13/511	21.50/546	36.75/933	40.03/1,017	2.00/51	2.00/51	365/166	13.30/338	12.00/305	4.30/109	
		440-480/60/3	21.2	26.2	173.0												
		380-420/50/3	25.5	31.7	196.0												

¹ For more information regarding compressor voltages, please refer to field notice FNR# 192-83-M.

² All dimensions ± 0.25 in. (6 mm).

³ All weights ± 10%.



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Dealer:

MCG Series Modular Chillers

The Standard In Chilled Water Air Conditioning



MCG60 shown

Marine Air's MCG chilled water series is available in capacities ranging from 24,000 (2 ton) to 180,000 (15 ton) BTU/hr. Featuring a compact base design, MCG modules can be staged to provide a larger system, which is easily retrofitted and serviced in the field. Up to six 15-ton stages can be configured for a system total of 1,080,000 BTU/hr, or 90 tons.

Each refrigerant circuit is hermetically sealed and factory pre-charged with R-410A refrigerant. This environmentally safe refrigerant has exceptional thermodynamic properties and maximizes system efficiency.

Each condensing unit is monitored and protected with freeze controls, high-limit switches, high and low aquastats, and timers. These condensing units can be installed in any convenient location and are unaffected by vibration, moisture or ambient temperatures up to 140°F/60°C.

MCG 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.

MCGs are available in single phase or three phase, 50Hz or 60Hz, and all standard voltages (208, 230, 380, 460 VAC).

Key Benefits

- Compact footprint for installation flexibility
- Aluminum construction is corrosion resistant and lightweight
- Up to six modules can be multiplexed for larger capacities
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Bi-flow expansion valves balance the system between heat and cool modes
- Compact stainless-steel brazed plate heat exchangers for maximum efficiency
- Spiral-fluted cupronickel condenser coil provides maximum heat transfer and corrosion resistance
- Digital Diagnostic Controller (DDC) monitors and protects the system
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant
- 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

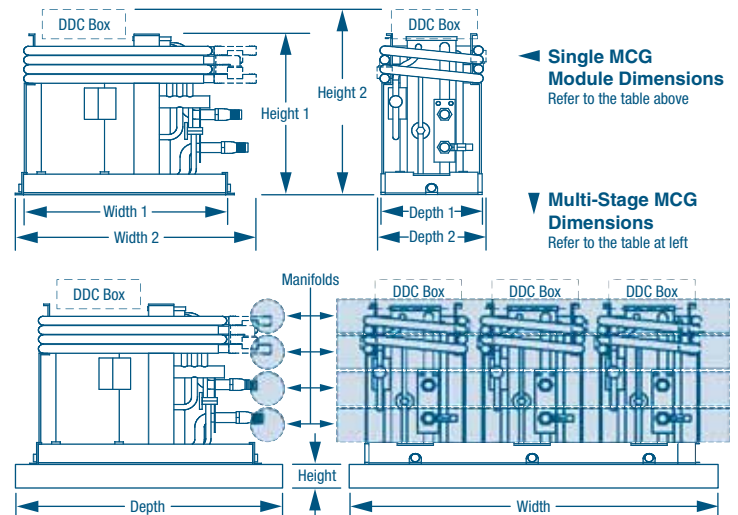
Technical Specifications for MCG Series Chillers

MODEL	CAPACITY (BTU/HR)	VOLTS/HZ/PH ⁽¹⁾	FLA COOL	FLA HEAT	LRA	HEIGHT 1 ⁽²⁾ (IN/MM)	HEIGHT 2 (IN/MM)	WIDTH 1 (IN/MM)	WIDTH 2 (IN/MM)	DEPTH 1 (IN/MM)	DEPTH 2 (IN/MM)	SW (IN/MM)	CW (IN/MM)	WEIGHT ⁽³⁾ (LBS/KG)	HEIGHT - DDC ⁽⁴⁾ (IN/MM)	WIDTH - DDC (IN/MM)	DEPTH - DDC (IN/MM)	
MCG24	24,000	208-240/60/1	6.4	9.5	58.3	17.22/	21.74/	12.00/	12.00/	24.00/	24.97/	1.00/	1.00/	194/	11.00/	9.80/	3.70/94	
		220-240/50/1	7.5	11.0	67.0	437	552	305	305	610	634	25	25	88	279	249		
		208-230/60/3	5.5	7.3	58.0													
		440-480/60/3	2.7	3.6	28.0													
MCG36	36,000	208-240/60/1	10.9	15.6	112.0	23.57/	23.57/	12.00/	12.50/	24.00/	30.78/	1.00/	1.00/	194/	11.00/	9.80/	3.70/94	
		220-240/50/1	11.6	16.9	97.0	599	599	610	318	610	782	25	25	88	279	249		
		208-230/60/3	7.3	9.4	88.0													
		440-480/60/3	4.0	5.2	44.0													
MCG48	48,000	208-240/60/1	13.0	19.1	135.0	23.57/	23.57/	12.00/	12.50/	24.00/	30.78/	1.00/	1.00/	241/	11.00/	9.80/	3.70/94	
		220-240/50/1	14.4	20.7	136.0	599	599	610	318	610	782	25	25	109	279	249		
		208-230/60/3	9.1	12.2	98.0													
		440-480/60/3	4.7	6.2	46.0													
MCG60	60,000	208-240/60/1	17.0	24.7	158.0	23.44/	26.08/	12.00/	13.25/	24.00/	30.07/	1.00/	1.25/	263/	11.00/	9.80/	3.70/94	
		220-240/50/1	21.5	30.1	176.0	595	662	610	337	610	764	25	32	119	279	249		
		208-230/60/3	10.6	14.4	110.0													
		440-480/60/3	6.2	8.2	75.0													
MCG72	72,000	208-240/60/1	23.3	32.5	148.0	23.44/	26.08/	12.00/	13.25/	24.00/	30.04/	1.00/	1.25/	267/	11.00/	9.80/	3.70/94	
		208-230/60/3	14.2	18.2	149.0	595	662	610	337	610	763	25	32	121	279	249		
		440-480/60/3	6.9	9.1	75.0													
		380-420/50/3	9.0	11.7	101.0													
MCG90	90,000	208-230/60/3	19.5	24.9	195.0	27.66/	31.07/	16.00/	17.37/	24.00/	30.84/	1.50/	1.50/	410/	13.30/	12.00/	4.30/109	
		440-480/60/3	9.8	12.4	95.0	703	789	406	441	610	783	38	38	186	338	305		
		380-420/50/3	10.8	13.6	111.0													
MCG120	120,000	208-230/60/3	25.3	32.8	239.0	33.61/	37.71/	16.00/	17.40/	24.00/	30.84/	1.50/	1.50/	500/	13.30/	12.00/	4.30/109	
		440-480/60/3	12.7	16.4	125.0	854	958	406	442	610	783	38	38	227	338	305		
		380-420/50/3	13.3	17.8	118.0													
MCG150	150,000	208-230/60/3	29.5	38.0	245.0	46.24/	N/A	18.63/	19.50/	26.75/	31.88/	2.00/	2.00/	545/	N/A	N/A	N/A	
		440-480/60/3	13.8	18.0	125.0	1,174		473	495	679	810	51	51	247				
		380-420/50/3	21.2	26.2	173.0													
MCG180	180,000	208-230/60/3	41.9	52.0	340.0	49.50/	N/A	18.63/	19.50/	26.75/	31.88/	2.00/	2.00/	600/	N/A	N/A	N/A	
		440-480/60/3	21.2	26.2	173.0	1,250		473	495	679	810	51	51	272				
		380-420/50/3	25.5	31.7	196.0													

Dimensions for Multi-Stage Systems

NO. OF STAGES	HEIGHT - BASE ⁽⁵⁾ (IN/MM)	WIDTH - BASE ⁽⁶⁾ (IN/MM)	DEPTH - BASE ⁽⁶⁾ (IN/MM)	HEIGHT - CWMC (IN/MM)	WIDTH - CWMC (IN/MM)	DEPTH - CWMC (IN/MM)
MCG24 - MCG72 MODULES						
2 Stages	1.50/38	28.00/711	31.00/787	24.00/610	22.00/559	7.75/199
3 Stages ⁽⁷⁾	1.50/38	41.50/1,054	31.00/787	24.00/610	22.00/559	7.75/199
4 Stages	1.50/38	55.50/1,410	31.00/787	24.00/610	30.00/762	7.75/199
5 Stages	1.50/38	69.50/1,765	31.00/787	24.00/610	35.00/889	7.75/199
MCG90 - MCG120 MODULES						
2 Stages	3.00/76	36.00/914	35.50/902	24.00/610	22.00/559	7.75/199
3 Stages ⁽⁷⁾	3.00/76	53.50/1,359	35.50/902	24.00/610	22.00/559	7.75/199
4 Stages	3.00/76	72.50/1,816	35.50/902	24.00/610	30.00/762	7.75/199
5 Stages	3.00/76	88.50/2,248	35.50/902	24.00/610	35.00/889	7.75/199
MCG150 - MCG180 MODULES						
2 Stages	3.00/76	39.25/997	38.75/984	24.00/610	22.00/559	7.75/199
3 Stages ⁽⁷⁾	3.00/76	59.88/1,521	38.75/984	24.00/610	22.00/559	7.75/199
4 Stages	3.00/76	80.50/2,045	38.75/984	24.00/610	30.00/762	7.75/199
5 Stages	4.00/102	101.13/3,569	38.75/984	24.00/610	35.00/889	7.75/199

- ¹ For more information regarding compressor voltages, please refer to field notice FNR#192-B3-M.
² All dimensions ± 0.25 in. (6 mm).
³ All weights ± 10%.
⁴ Add 1.0 in. (25 mm) for mounting tabs and 4.0 in. (102 mm) clearance on bottom for wire harness.
⁵ Add single module height to base height for overall height.
⁶ Manifolds may extend up to 5.0 in. (127 mm) in front of and up to 7.0 in. (178 mm) to the side of the base.
⁷ Use 4-stage size for electric heat and 3-4 pumps.



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Environmentally
Responsible

Dealer:

Staged Chilled Water Air Conditioning

Up to 1,080,000 BTU/hr Capacity



SCW 24-ton shown

Staged Chilled Water (SCW) chillers are available in capacities ranging from 48,000 (4 ton) to 1,080,000 (90 ton) BTU/hr. SCW systems are available in single phase or three phase, 50Hz or 60Hz, and all standard voltages (208, 230, 380, 460 VAC). Multiple compressors and refrigerant circuits are incorporated to provide minimal power consumption versus load demands, as well as redundancy throughout the unit. Each condensing unit is monitored and protected with freeze controls, high limit switches, high and low aquastats, timers and on-board fuses or breakers.

All access ports to the refrigerant system are protected with Charge Guard®, a factory installed seal, ensuring system integrity from shipping through final installation.

Condenser coils are constructed with cupronickel to provide high corrosion resistance. Unique stainless steel evaporator plates are designed for maximum efficiency of heat transfer. SCWs can be built with circulation pump mounted in the chiller frame. Frames are welded with marine grade aluminum alloy, primed, then finished with a corrosion resistant epoxy.

These condensing units can be installed in any convenient location and are highly resistant to vibration, moisture or ambient temperatures up to 140°F/60°C. Units meet or exceed Coast Guard regulations.

Key Benefits

- Two- to six-stage high-capacity systems
- Built-in redundancy - the system will continue to function in the event a circuit fails
- Spiral-fluted cupronickel condenser coil provides maximum heat transfer and corrosion resistance
- Copper-brazed stainless-steel plate heat exchangers for maximum efficiency
- Thermal expansion valves automatically adjust to changing load requirements
- Modules are protected by a circuit breaker, blow switch, freeze protection, water temperature high limit, high-pressure refrigerant switch, and low-pressure refrigerant switch
- Sturdy and lightweight aluminum frame
- Complete control circuit provides multiple fail safes for system protection
- Custom frame designs available to fit virtually any space requirement
- Available with Chilled Water Master Controller (CWMC) or Tempered Water Logic Control (TWLC) for precise operation and monitoring of the system

Electrical Specifications for Individual Modules⁽¹⁾

CAPACITY	24,000 BTU/HR.	36,000 BTU/HR.	48,000 BTU/HR.	60,000 BTU/HR.	72,000 BTU/HR.	90,000 BTU/HR.	120,000 BTU/HR.	150,000 BTU/HR.	180,000 BTU/HR.
Volts/Hz/Ph ⁽²⁾	208-240/60/1 220-240/50/1 208-230/60/3 440-480/60/3	208-240/60/1 220-240/50/1 208-230/60/3 440-480/60/3	208-240/60/1 220-240/50/1 208-230/60/3 440-480/60/3 380-420/50/3	208-240/60/1 220-240/50/1 208-230/60/3 440-480/60/3 380-420/50/3	208-240/60/1 220-240/50/1 208-230/60/3 440-480/60/3 380-420/50/3	208-230/60/3 440-480/60/3 380-420/50/3	208-230/60/3 440-480/60/3 380-420/50/3	208-230/60/3 440-480/60/3 380-420/50/3	208-230/60/3 440-480/60/3 380-420/50/3
FLA Cool	6.4 7.5 5.5 2.7	10.9 11.6 7.3 4.0	13.0 14.4 9.1 4.7 4.9	17.0 21.5 10.6 6.2 6.8	23.3 14.2 6.9 9.0	19.5 9.8 10.8	25.3 12.7 13.3	29.5 13.8 21.2	41.9 21.2 25.5
FLA Heat	10.9 11.6 7.3 4.0	15.6 16.9 9.4 5.2	19.1 20.7 12.2 6.2 7.0	24.7 30.1 14.4 8.2 9.1	32.5 18.2 9.1 11.7	24.9 12.4 13.6	32.8 16.4 17.8	38.0 18.0 26.2	52.0 26.2 31.7
LRA	58.3 67.0 58.0 28.0	112.0 97.0 88.0 44.0	135.0 136.0 98.0 46.0 51.5	158.0 176.0 110.0 75.0 74.0	148.0 149.0 75.0 101.0	195.0 95.0 111.0	239.0 125.0 118.0	245.0 125.0 173.0	340.0 173.0 196.0

¹ Due to the number of variables, physical dimensions and weights for SCW systems are not listed here. Please contact Dometic Marine at 954-973-2477 to discuss your system with a sales representative.

² For more information regarding compressor voltages, please refer to field notice (FNR) #192-B3-M.

Heating

Heating capabilities can be provided through a variety of choices, depending upon requirements. Reverse-cycle provides the most efficient heating (four times more efficient than electric heating), but requires a seawater temperature $\geq 40^{\circ}\text{F}$ (5°C). Electric heating provides adequate capacities for vessels operating in all waters, but is limited by the power (amperage) available for operation. Auxiliary heating is available through the use of electric heating elements installed in the air handlers. Each of these elements provides 1-3 kW of heat that can be operated independently or in combination with the central heating circuit to maintain temperatures inside the vessel.

TONS PER STAGE	2 STAGE	3 STAGE	4 STAGE	5 STAGE
2	6kW/1 Stage	6kW/1 Stage	12kW/2 Stage	12kW/2 Stage
3	6kW/1 Stage	10kW/1 Stage	12kW/2 Stage	18kW/3 Stage
4	10kW/1 Stage	12kW/2 Stage	18kW/3 Stage	20kW/2 Stage
5	12kW/2 Stage	18kW/3 Stage	24kW/4 Stage	18kW/3 Stage
6	12kW/2 Stage	18kW/3 Stage	24kW/4 Stage	30kW/3 Stage
7.5	20kW/2 Stage	26kW/2 Stage	30kW/3 Stage	40kW/4 Stage
10	20kW/2 Stage	30kW/3 Stage	40kW/4 Stage	52kW/4 Stage
12.5	26kW/2 Stage	39kW/3 Stage	45kW/3 Stage	60kW/4 Stage
15	30kW/2 Stage	45kW/3 Stage	60kW/4 Stage	80kW/4 Stage

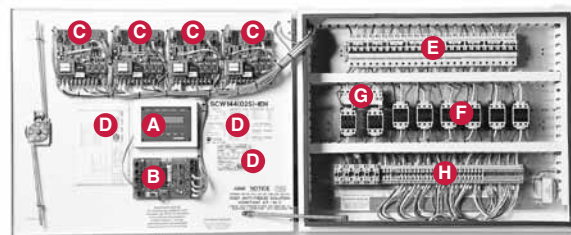
Electric Box

The drip-proof electric box (shown at right) is available with custom harness lengths to fit each application.

- A** Chilled Water Master Controller (CWMC) Display.
- B** CWMC circuit board.
- C** Digital Diagnostic Controller (DDC). Please reference the Chilled Water Master Controller specifications sheet for more details.
- D** Data plates and wiring diagram.

All compressors, pumps, and heaters are protected by individual circuit breakers **E**, controlled by contactors **F**, and three-phase pumps **G** are also protected by overloads.

- H** All wiring from the electric box to the chiller components is connected via feed through terminals for easy troubleshooting.



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Environmentally
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Dealer:

Modular MTS Series Chillers

Compact, High-Capacity Units With Shell-and-Tube Condensers



MTS25 shown



The MTS is a high-capacity modular chiller unit for large pleasure yachts and commercial vessels. Optional electric heaters can provide onboard comfort year round.

Each module contains a hermetic scroll compressor and shell-and-tube marine-grade condenser, along with other mechanical and electrical components on a single chassis. Multiple modules can be staged as needed to meet the required load.

These space-saving modules are designed for easy installation in tight spaces. The MTS provides easy front access for repair and maintenance of condenser tubes, heater rods, flow switch, compressor, and replaceable drier cores. Safety measures include high-pressure switch, refrigerant pressure-relief valve, low-pressure switch, flow switch, high-limit switch, and freeze protection.

A filter drier keeps refrigerant oil clean and dry for long compressor life. With 100 percent pump-down capacity, refrigerant circuit repairs can be made without recovering the refrigerant.

The MTS 25-ton (279,000 BTU/hr) chiller is available in 380V and 460V models.

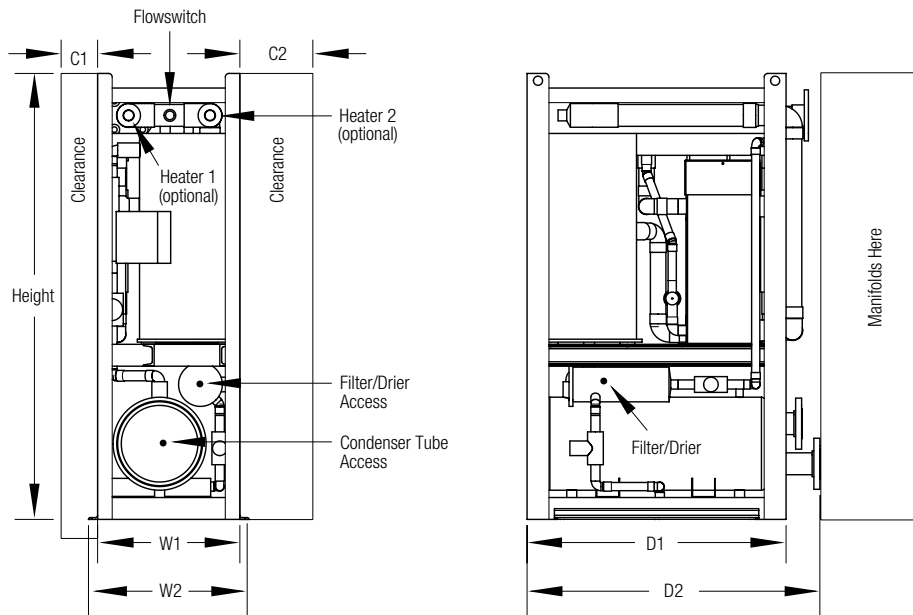
Key Benefits

- Modular design for staging multiple units.
- Hermetic scroll compressor – avoids leaks.
- Marine-grade cupronickel shell-and-tube condenser.
- Dual bottom-draining liquid connections and trap in condenser – optimal performance in choppy seas.
- High-pressure switch and pressure-relief valve for safety.
- Frequency drives – minimize starting amps.
- Filter drier – keeps refrigerant oil clean and dry for long compressor life.
- 100% pump-down capacity – refrigerant circuit repairs can be made without recovering the refrigerant.

Technical Specifications for MTS 25-Ton

MODEL	MTS25 (380V)	MTS25 (460V)
Capacity (BTU/Hr)	279,000	279,000
Voltage	380/60/3	460/60/3
Amps	35.5	35.5
Net Weight (lbs/kg)	1150/429.2	1150/429.2
Height (in/mm)	61.2/1,554	61.2/1,554
Width, W1 (in/mm)	19.5/495	19.5/495
Width, W2 (in/mm)	21.75/552	21.75/552
Depth, D1 (in/mm)	35.5/902	35.5/902
Depth, D2 (in/mm)	40.2/1,021	40.2/1,021
Clearance, C1 (in/mm)	5.0/127	5.0/127
Clearance, C2 (in/mm)	10.0/254	10.0/254
Manifolds (see notes)	See notes below	See notes below

Allow 8 in. for manifolds only, or 14 in. for manifolds with isolation valves. All dimensions ± 0.5 in.
 Clearance between modules should alternate 5 in., 10 in., 5 in... and at least 5 in. at each end.



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Environmentally
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Dealer:

AT Series Chilled Water Air Handlers

With High-Velocity Blowers



AT18HV air handler shown

The AT-HV series of air handlers for chilled water systems are draw-through (ducted) units with high-velocity (HV) blowers. The AT-HV series replaces Flex-Duct and Draw-Through series air handlers, and has many improvements and options over the older units.

Significant improvements include: sloped “Positive-Flow” drain pan which reduces standing water, larger drain connections, improved coil design for better cooling and dehumidifying performance, coil is offset from drain pan edge to ensure all condensation is caught in the pan, redesigned piping so the bypass valve is clear of dripping condensation, pressure test ports for troubleshooting, and the new 24,000 BTU/hr unit uses a high-efficiency, internal-motor blower for quieter operation. On units with auxiliary (electric) heat, the new heater design allows removal from the top or side for access or servicing.

All Marine Air air handlers use corrosion-resistant materials. They feature “positive-flow” drain pans with anti-slosh foam lining and are fully insulated against secondary condensation. Electric heat is optional.

AT air handlers are available with “WhisperCool” brushless DC blowers (AT-DC series).

Key Benefits

- High-velocity blowers with internal motor to reduce depth
- Improved cooling and dehumidification
- “Positive-flow” drain pan insulated against secondary condensation
- Drain pan has anti-slosh, anti-fungal foam lining
- Integrated chassis with cushioned mounts to reduce noise and vibration
- Exposed sheet metal is insulated against secondary condensation
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Water-pressure test ports for troubleshooting
- Allowance for connecting variable fan-speed drives
- Rotatable blowers
- Optional electric heat

Technical Specifications for AT Series Air Handlers

MODEL ⁽¹⁾	AT4HV		AT6HV		AT9HV		AT12HV		AT18HV		AT24HV		AT36HV
Cooling Capacity (BTU/hr)	4,000		6,000		9,000		12,000		18,000		24,000		36,000
Cooling Capacity (Kcal/hr)	1,008		1,512		2,268		3,024		4,536		6,048		9,072
Voltage @ 50-60Hz/1Ph	115	230	115	230	115	230	115	230	115	230	115	230	230
Amperage (FLA) Cool	0.8	0.4	1.2	0.6	1.4	0.7	1.4	0.7	2.2	1.0	2.2	1.0	1.6
Optional Elec. Heat (kW) ⁽²⁾	N/A		1.0		1.5		2.0		3.0		3.0		4.0
Heating Capacity (BTU/hr)	N/A		3,412		5,118		6,824		10,236		10,236		13,648
Heating Capacity (Kcal/hr)	N/A		860		1,290		1,720		2,579		2,579		3,439
Amperage (FLA) Heat	N/A		10.5	4.9	14.4	7.2	18.8	9.4	28.3	14.0	28.2	14.0	19.0
Max. Fuse/in. Without Electric Heat	5/2	5/1	5/3	5/1	5/2	5/1	5/2	5/1	5/3	5/2	5/3	5/2	5/3
Max. Fuse/in. With Electric Heat	N/A		10/9	5/5	15/14	10/7	20/18	10/9	30/27	15/14	30/27	15/14	25/20
Water Flow (gpm/lpm)	1.0/3.8		1.5/5.7		2.3/8.5		3.0/11.4		4.5/17.0		6.0/22.7		9.0/34.1
Air Flow (cfm/cmh) Nominal	130/221		229/389		278/472		338/574		465/790		506/860		676/1149
External SP (in. H ₂ O/eq. Ft.)	0.30/42.3		0.30/42.3		0.30/42.3		0.30/42.3		0.30/42.3		0.30/42.3		0.30/42.3
Height - Evap. (in./mm)	10.1/257		10.2/259		11.90/302		12.05/306		14.96/380		16.61/422		19.50/495
Height - Blower (in./mm)	9.5/241		12.63/321		13.25/337		13.88/353		16.50/419		16.68/424		19.50/495
Width (in./mm) ⁽³⁾	14.8/376		15.00/381		16.63/422		18.75/476		20.25/514		22.63/575		26.63/676
Depth (in./mm) ⁽³⁾	8.8/224		12.28/312		12.50/318		12.50/318		12.25/311		15.25/387		18.00/457
Supply Air Duct Diameter (in./mm)	4/102		5/127		6/152		6/152		7/178		8/203		8/203
Remote Mount Electric Box (in./mm)	8.00/203 High X 6.13/156 Wide X 2.00/51 Deep												
Return Air Inlet (sq. in./sq. cm)	64/413		70/452		98/632		130/839		200/1,290		240/1,548		360/2,323
Supply Air Outlet (sq. in./sq. cm)	32/206		35/226		49/316		70/452		100/645		140/903		196/1,265
Water Connections	Drain: 1/2 in. FPT with PVC HB. Chilled Water: 1/2 in. FPT on 4-24K; 1 in. FPT on 36K with Brass HB on All.												
Net Weight (lb/kg) ⁽⁴⁾	16.0/7.3		18.4/8.3		24.0/10.9		24.0/10.9		32.8/14.9		38.0/17.2		60.0/27.2
Gross Weight (lb/kg) ⁽⁴⁾	23.0/10.4		28.4/12.9		34.0/15.4		34.0/15.4		36.8/16.7		52.0/23.6		66.0/29.2

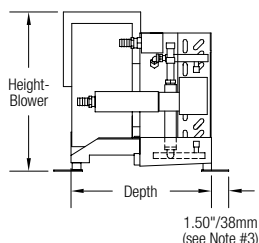
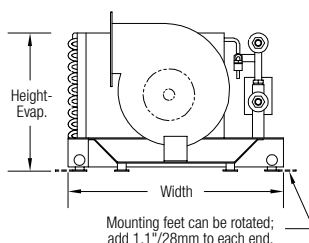
¹ Model numbers shown are for 115V units. Add a "Z" after the "HV" in the model number to designate 230V (i.e. AT12HVZ). Model number prefixes: -FC = Flow Control; -L# or -R# = Valve and Blower Rotation (see dwg H3050002); -#kW = Electric Heat Option.

² Auxiliary heating elements are optional, and must be ordered with unit. Add "1kW, 1.5kW, etc." to the model number.

³ Rotatable feet affect the final dimensions. Front feet add 1.5 in. to the front, or 1.1 in. to both sides. Rear feet do not add to the width or depth when rotated to the side.

⁴ Weights listed are for standard "HV" units. For weights of units with the electric heater option, add heater elements weights to unit weight. 1.0 kW & 1.5 kW = 1.5 lbs/0.7 kg; 2.0 kW & 3.0 kW = 3.0 lbs/1.4 kg. Dimensional weights may apply to shipping charges; contact your sales-admin representative.

INTERPRETING MODEL NUMBERS						
AT	12	HV	Z	-FC	-L120	-2kW
"AT" style Air Handler	Capacity X 1,000 BTU/hr	Blower HV: High-Efficiency F: External Motor	Voltage Z: 230V Blank: 115V	With Flow Control Blank: No Flow Control	Valve & Blower Orientation Blank: LO (standard)	kW of Elec. Heat Blank: No Elec. Heat



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Environmentally
Responsible

Dealer:

AT-DC Series Air Handlers

Featuring “WhisperCool” Technology



AT6DC shown

The AT-DC series of chilled water air handlers represents the new standard in marine HVAC engineering that you'll barely notice. Thanks to “WhisperCool” technology, the AT-DC series harnesses engineering refinements to eliminate the annoying “motor hum” heard from ordinary air handlers operating at very low fan speeds. Incoming alternating current is converted to drive a brushless DC internal blower motor, resulting in super-quiet and highly-efficient performance across all fan speeds.

Additional design changes in the air handlers eliminate condensate drain problems, reduce dripping condensation and standing water issues. An improved coil enhances cooling and dehumidification performance. The redesigned unit also creates easily accessible water-pressure test points for troubleshooting and maintenance.

All Marine Air air handlers use corrosion-resistant materials. They feature “positive-flow” drain pans with anti-slosh foam lining and are fully insulated against secondary condensation. Electric heat is optional.

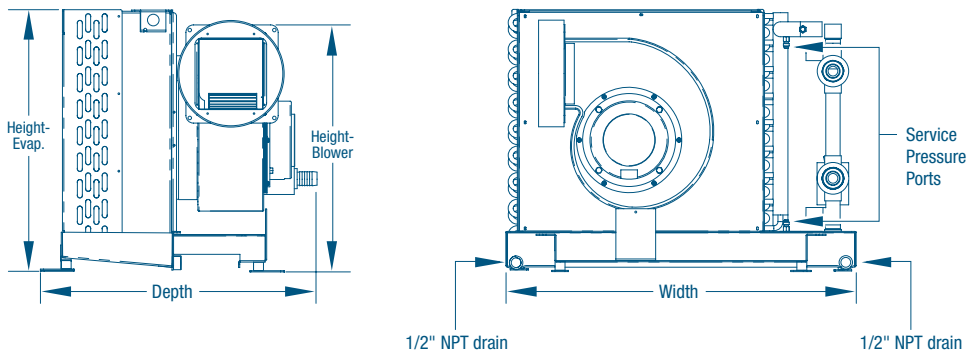
Key Benefits

- Variable-speed, brushless DC fan motors are extremely quiet
- Improved cooling and dehumidification
- “Positive-flow” drain pan insulated against secondary condensation
- Drain pan has anti-slosh, anti-fungal foam lining
- Integrated chassis with cushioned mounts to reduce noise and vibration
- Exposed sheet metal is insulated against secondary condensation
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Rotatable blowers
- Optional electric heat

Technical Specifications for AT-DC Air Handlers

MODEL	AT6DC	AT9DC	AT12DC	AT18DC	AT24DC	AT36DC
Capacity (BTU/Hr)	6,000	9,000	12,000	18,000	24,000	36,000
Volts/Hz/Phase	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1
Amps (FLA) Cool ⁽¹⁾	1.4	1.4	3.2	3.9	3.9	3.9
Optional Elec. Heat (kW)	1.0	1.0	1.5	1.5	3.0	3.0
Heater Amps	4.3	4.3	6.5	6.5	13.0	13.0
Amps (FLA) Heat ⁽¹⁾	5.7	5.7	9.7	10.4	16.9	16.9
Max Fuse Without Electric Heat	5.0	5.0	5.0	5.0	5.0	5.0
Max Fuse With Electric Heat	10.0	10.0	15.0	15.0	20.0	20.0
Min Circuit Ampacity Without Electric Heat	2.0	2.0	4.0	5.0	5.0	5.0
Min Circuit Ampacity With Electric Heat	7.0	7.0	11.0	12.0	18.0	18.0
Water Flow (gpm/lpm)	1.50/5.7	2.25/8.5	3.00/11.4	4.50/17.0	6.00/22.7	9.00/34.1
Air Flow (cfm/cmh)	200/340	280/476	400/680	600/1019	650/1105	670/1130
External Static Pressure (in H2O)	1.9	0.6	2.3	1.1	0.6	0.5
Height - Evap. (in/mm)	11.08/281	11.79/299	12.05/306	14.83/377	16.70/424	19.74/501
Height - Blower (in/mm)	13.63/346	13.73/349	13.94/354	16.94/430	16.70/424	19.74/501
Width (in/mm)	14.81/376	16.48/419	18.75/476	20.08/510	22.48/571	26.41/671
Depth (in/mm)	14.27/362	14.55/370	14.49/368	14.83/377	16.42/417	17.15/436
Duct Ring Diameter (in/mm)	5.00/127.0	6.00/152.4	6.00/152.4	7.00/177.8	8.00/203.2	8.00/203.2
Minimum Supply Air Outlet (sq. in)	35	49	70	100	140	196
Minimum Return Air Inlet (sq. in)	70	98	130	200	240	360
Drain Connections	two 1/2 in. female NPT	two 1/2 in. female NPT	two 1/2 in. female NPT	two 1/2 in. female NPT	two 1/2 in. female NPT	two 1/2 in. female NPT
Chilled Water Connections, Female NPT	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1 in.
Net Weight (lbs/kg)	23/10.4	27/12.2	29/13.2	39/17.7	44/20.0	63/28.6
Gross Weight (lbs/kg)	33/15.0	37/16.8	39/17.7	49/22.2	58/26.3	72/32.7

¹ Amps listed above are based on maximum speed in free air. Speed would be set well below maximum, and the unit would ordinarily be ducted rather than free air, therefore, the real world amps will be considerably lower.



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Environmentally
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Dealer:

ATL Series Low-Profile Air Handlers

Designed With Height Constraints In Mind



ATL12DC shown

The ATL series of draw-through air handlers for chilled water systems is ideal for installation in height-restrictive spaces. Featuring an enclosed design, insulating foam covers the condensate pan, blower housing, shroud, and coil end cover to reduce noise and secondary condensation. The condensate pan also has an anti-slosh, anti-fungal foam lining. The ATL series is designed to replace the CHEBC models.

ATL air handlers are an excellent choice for overhead applications where height is limited. The dual blowers are mounted horizontally to maintain an exceptionally low profile. The included cushioned mounts, which minimize vibration and noise, allow the unit to be suspended from above or supported from beneath.

All Marine Air air handlers use corrosion-resistant materials. They feature “positive-flow” drain pans with anti-slosh foam lining and are fully insulated against secondary condensation. Electric heat is optional.

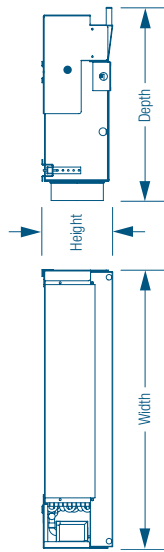
Key Benefits

- Variable-speed, brushless DC fan motors are extremely quiet
- Dual blowers are mounted horizontally for exceptionally low profile
- Can be suspended from above or supported from beneath
- Enclosed design
- Internal components are insulated against secondary condensation
- Cushioned mounts reduce noise and vibration
- Bypass valve has removable power head for simple servicing
- Valve body is soldered to unit to prevent leaks
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Valve on left (standard) or on right (optional)
- Built-in flow control balances chilled water distribution
- Optional electric heat

Technical Specifications for ATL Air Handlers

MODEL	ATL6DC	ATL9DC	ATL12DC	ATL18DC	ATL24DC	ATL30DC	ATL36DC	ATL16F
Capacity (BTU/hr)	6000	9000	12000	18000	24000	30000	36000	16000
Volts/Hz/Phase	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1
Amps (FLA) Cool ⁽¹⁾	1.4	1.4	2.8	2.8	3.9	3.9	3.9	2.4
Optional Elec. Heat (kW) ⁽²⁾	1	1	2.0	2.0	1.5	1.5	1.5	N/A
Heater Amps	4.3	4.3	8.7	8.7	6.5	6.5	6.5	N/A
Amps (FLA) Heat ⁽¹⁾	5.7	5.7	11.5	11.5	10.4	10.4	10.4	N/A
Max. Fuse Without Elec. Heat	5	5	5	5	5	5	5	5
Max. Fuse With Elec. Heat	10	10	15	15	15	15	15	N/A
Min. Circuit Amps Without Elec. Heat	2	2	4	4	5	5	5	3
Min. Circuit Amps With Elec. Heat	7	7	13	13	12	12	12	N/A
Water Flow (gpm/lpm)	1.5/5.7	2.25/8.5	3/11	4.5/17	6/23	7.5/28	9/34	4/15
Air Flow (cfm/cm ³)	200/340	300/510	400/680	600/1020	800/1360	1000/1700	1200/2040	420/710
External Static Pressure (in H2O/Pa)	1.9/470	0.65/160	1.9/470	0.65/160	1.5/370	1.65/410	0.65/160	0.3/75
Height (in/mm) ⁽³⁾	8.3/211	8.3/211	8.3/211	8.3/211	10.8/274	10.8/274	10.8/274	8.10/205
Depth (in/mm) ⁽⁴⁾	22.7/577	22.7/577	22.7/577	22.7/577	19.7/500	21.6/549	21.6/549	17.60/447
Width (in/mm)	19.4/493	19.4/493	31.4/798	31.4/798	43.1/1095	62.2/1580	62.2/1580	23.40/595
Duct Connections (in/mm)	6/153, 1 ring	6/153, 1 ring	6/153, 2 rings	6/153, 2 rings	8/204, 1 ring	8/204, 1 ring	8/204, 1 ring	4/102, 2 obrounds
Min Supply Air Outlet Per Duct (m ² /cm ²)	35/226	49/316	35/226	49/316	147/949	168/1084	168/1084	40/260
Total Return Air Inlet (in ² /cm ²)	1 duct	1 duct	2 ducts	2 ducts	1 duct	1 duct	1 duct	2 ducts
Drain Connections	70/452	98/632	130/840	200/1290	240/1550	300/1935	360/930	144/930
Chilled Water Connections, Female NPT (in)	Two 1/2 in. od tube stubs	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.
Pan Style	Sloped	Sloped	Sloped	Sloped	Sloped	Sloped	Sloped	Sloped
Weight (lbs/kg)	31/14.1	31/14.0	51/23.1	51/23.1	62/28.1	76/34.5	76/34.5	34/15.4

¹ Blower amps will be reduced at lower speed/cfm static pressure.
² The ATL12DC - ATL18DC models are rated at 2.0 kW because the heat is on the blower discharge, and these models have dual blowers. The larger ATL24DC - ATL36DC models require only 1.5 kW because they have a single blower.
³ All dimensions ± 0.3 in. or 8 mm.
⁴ Units with electric heat have a heater box on the discharge of each blower. Electric heat adds 5.80 in. (147 mm) to the depth. The heater box is only 9.50 in./241 mm wide (not including electrical gland), and does not add to the height or width of the unit.



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Dealer:

ABL Series Low-Profile Air Handlers

Designed With Height Constraints In Mind



ABL18DCZ shown



The ABL series of draw-through air handlers for chilled water systems is ideal for installation in height-restrictive spaces. Insulating foam covers the condensate pan, blower housing, shroud, and coil end cover to reduce noise and secondary condensation. The condensate pan also has an anti-slosh, anti-fungal foam lining. The ABL series is designed to replace the CBLB models.

ABL air handlers are an excellent choice for overhead applications where height is limited. The dual blowers are mounted at a 90 degree angle to the evaporator coil for dramatically reduced depth. The optional cushioned mounts, which minimize vibration and noise, allow the unit to be suspended from above or supported from beneath.

All Marine Air air handlers use corrosion-resistant materials. They feature “positive-flow” drain pans with anti-slosh foam lining and are fully insulated against secondary condensation. Electric heat is optional.

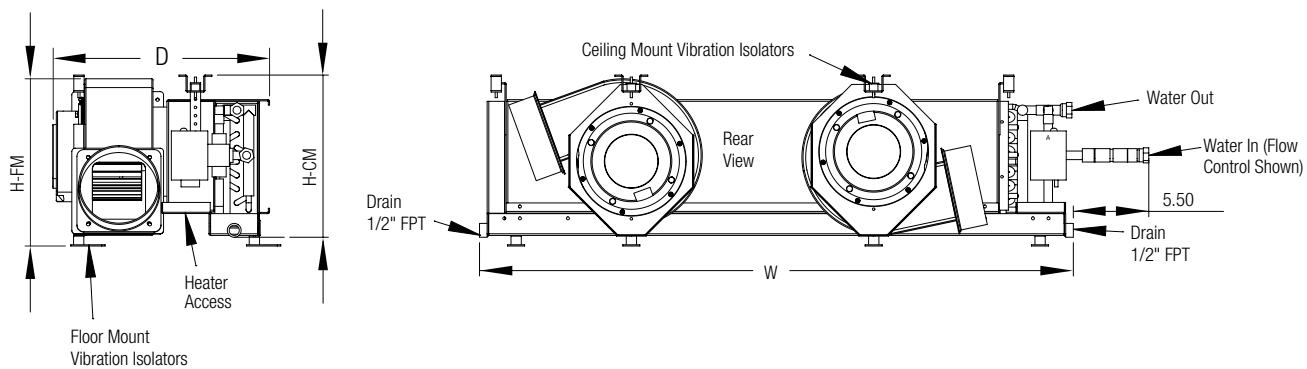
Key Benefits

- Variable-speed, brushless DC fan motors are extremely quiet
- Dual blowers are mounted at 90-degree angle to the coil for minimum depth
- Can be suspended from above or supported from beneath
- Optional cushioned mounts reduce noise and vibration
- Bypass valve has removable power head for simple servicing
- Valve body is soldered to unit to prevent leaks
- Exposed components are insulated against secondary condensation
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Valve on left (standard) or on right (optional)
- Built-in flow control balances chilled water distribution
- Optional electric heat

Technical Specifications for ABL Air Handlers

MODEL	ABL18DCZ	ABL24DCZ
Capacity (BTU/Hr)	18,000	24,000
Voltage	208-230/50-60/1	208-230/50-60/1
Amps (FLA) Cool	6.4	6.4
Optional Heater kW	3.0	3.0
Heater Amps	13.0	13.0
Amps (FLA) Heat	19.4	19.4
Max. Fuse Without Electric Heat	10.0	10.0
Max. Fuse With Electric Heat	25.0	25.0
Min. Circuit Ampacity Without Electric Heat	8.0	8.0
Min. Circuit Ampacity With Electric Heat	21.0	21.0
Water Flow (gpm)	4.5	6.0
Air Flow (cfm/cmh)	600/1019	800/1359
External static pressure (in H ₂ O)	2.7	2.5
Height Ceiling Mount, H-CM (in/mm) ⁽¹⁾	11.9/302	11.9/302
Height Floor Mount, H-FM (in/mm)	12.2/310	12.2/310
Width, W (in/mm)	37.3/947	43.3/1100
Depth, D (in/mm)	15.8/401	15.8/401
Dual Duct Rings - Diameter (in/mm)	6.0/152	6.0/152
Total Return Air Inlet (sq. in)	200	240
Supply Air Outlet for Each Blower (sq. in)	50 + 50	70 + 70
Drain Connections, Female NPT (in)	1/2 in.	1/2 in.
Chilled Water Connections, Female NPT (in)	1/2 in.	1/2 in.
Net Weight (lbs/kg)	63.0/28.4	66.0/29.9
Gross Weight (lbs/kg)	72.0/32.4	81.0/36.7

⁽¹⁾ All dimensions ± 0.3 in. (8 mm). Blower amps will be reduced at lower speed/CFM/static pressure.



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Environmentally
Responsible

Dealer:

ATV Series Slim-Profile Air Handlers

Designed With Depth Constraints In Mind



ATV18HV-LP
air handler

ATV chilled water air handlers were designed for applications where very little depth is available. Showcasing a unique vertical layout, this model has the coil low and the blower above.

Put it in the wall. Tall and slim, the ATV makes previously unusable areas suitable for blower installation. With a depth of only 9.4 in. (240 mm) it can be hidden in side areas instead of in places above or below, where most air handlers go. Designed for ducted applications, the ATV has a strong yet quiet DC blower with internal motor to reduce depth, resulting in easier installation.

All Marine Air air handlers use corrosion-resistant materials. They feature "positive-flow" drain pans with anti-slosh foam lining and are fully insulated against secondary condensation. Electric heat is optional.

Key Benefits

- Variable-speed, brushless DC fan motors are extremely quiet
- Unique vertical design results in dramatically reduced depth
- Can fit into walls and other tight spaces
- Exposed components are insulated against secondary condensation
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Built-in flow control balances chilled water distribution
- Optional electric heat

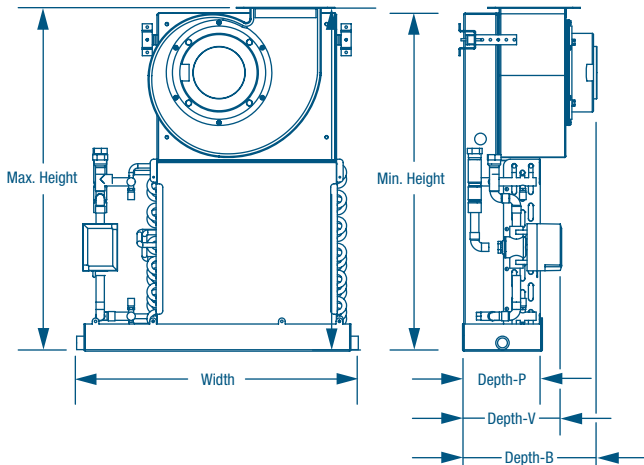
Technical Specifications for ATV Chilled Water Air Handlers

MODEL	ATV6DC	ATV9DC	ATV12DC	ATV18DC	ATV24DC	ATV36DC
Capacity (BTU/Hr)	6,000	9,000	12,000	18,000	24,000	36,000
Volts/Hz/Ph	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1	208-230/50-60/1
Amps (FLA) Cool ⁽¹⁾	1.4	1.4	3.2	3.9	3.9	3.9
Optional Heater kW	1.0	1.0	1.0	1.5	1.5	1.5
Heater Amps	4.3	4.3	4.3	6.5	6.5	6.5
Amps (FLA) Heat	5.7	5.7	7.5	10.4	10.4	10.4
Max. Fuse Without Electric Heat	5.0	5.0	5.0	5.0	5.0	5.0
Max. Fuse With Electric Heat	10.0	10.0	10.0	15.0	15.0	15.0
Water Flow, GPM (liters/min)	2.25/8.5	2.25/8.5	3.00/11	3.00/11	6.00/23	9.00/34
Air Flow, CFM (m ³ /hr)	200/340 ⁽²⁾	280/476	400/680 ⁽²⁾	600/1,020 ⁽²⁾	650/1,100	750/1,275
External static pressure (in H2O/Pa)	0.75/186	0.75/186	0.75/186	0.75/186	0.75/186	0.50/125
Max. Height (in/mm) ⁽³⁾	22.3/566	22.3/566	24.1/612	27.8/706	34.4/874	34.4/874
Min. Height (in/mm)	20.5/521	20.5/521	22.1/561	26.0/660	32.5/826	32.5/826
Width (in/mm)	20.2/513	20.2/513	20.2/513	21.2/538	29.3/538	29.3/538
Depth-P (in/mm)	4.3/109	4.3/109	4.3/109	6.3/160	7.9/201	7.9/201
Depth-V (in/mm)	6.8/173	6.8/173	6.8/173	7.6/193	9.1/231	9.1/231
Depth-B (in/mm)	7.4/188	9.4/240	9.4/240	10.3/262	11.5/292	11.5/292
Duct Ring Diameter (in/mm)	5.0/127	6.0/152	6.0/152	7.0/178	8.0/203	8.0/203
Minimum Supply Air Outlet (in ² /cm ²)	35/226	49/320	70/450	100/645	140/903	196/1,265
Minimum Return Air Inlet (in ² /cm ²)	70/452	98/632	130/839	200/1,290	240/1,548	360/2,323
Drain Connections, Female NPT	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1/2 in.
Chilled Water Connections, Female NPT	1/2 in.	1/2 in.	1/2 in.	1/2 in.	1 in.	1 in.
Net Weight (lb/kg)	22/10	25/11	31/14	36/16	65/29	65/29
Gross Weight (lb/kg)	32/15	32/15	40/18	46/21	76/34	76/34

¹ Blower amps will be reduced at lower speed/cfm/static pressure.

² To avoid water droplets in the airstream, do not exceed this CFM.

³ All dimensions ± 0.3 inches or 8 mm.



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Environmentally
Responsible

Dealer:

AT-MU Series Fresh Air Make-Up Air Handlers

Keep Air Inside the Vessel From Going Stale



ATMU 24 shown

The AT series of fresh-air make-up air handlers (AT-MU) for chilled water systems duct in outside air, cool and dehumidify it, then re-heat it to room temperature and duct it to various interior spaces. Typically, crew cabins and other spaces two or more levels below deck will benefit from the use of these systems.

AT-MU air handlers consist of a water coil, valve, electric heater, and blower mounted on a condensate pan/chassis with cushioned mounts to reduce noise and vibration.

The specially-designed water coil cools and dehumidifies outside air in one pass. The coil, as well as the blower and all exposed sheet metal components, is coated to resist corrosion. A motorized three-way bypass valve controls the flow of circulated water through the coil. The high-velocity (HV) blower has a high-efficiency internal motor, and can be rotated as required for installation (brushless “WhisperCool” DC blowers are available). An electric heater with redundant over-temperature protection reheats the cooled air to room temperature.

The sloped “positive-flow” condensate pan reduces standing water and is lined with anti-fungal and anti-slosh foam. The blower, condensate pan, and other exposed areas are insulated against secondary condensation. An optional modulating loop-water flow control regulates the water through the unit to ensure proper water distribution to all air handlers.

Key Benefits

- Compact design
- Corrosion-resistant coating on evaporator coil, blower, and drain pan
- “Positive-flow” drain pan insulated against secondary condensation
- Drain pan has anti-slosh, anti-fungal foam lining
- High-velocity blowers with internal motor to reduce depth
- Integrated three-way bypass valve with easy-change power head
- Electric heat with two-stage electric heat overload
- Heater assembly accessible from the top or side
- Large coil shroud volume for optimal performance
- Brass hose barb loop-water connections
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Built-in flow control balances chilled water distribution

Technical Specifications for AT-MU Fresh Air Make-up Air Handlers

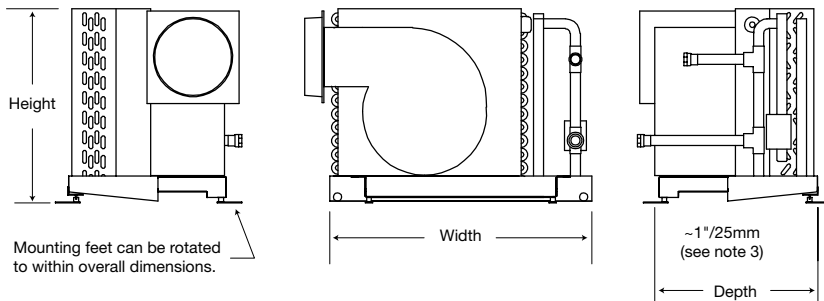
MODEL ⁽¹⁾	AT18HVZ-1.5KW-MU	AT24HVZ-2KW-MU	AT36HVZ-4KW-MU
Capacity (BTU/hr)	17,000	27,000	53,000
Capacity (Kcal/hr)	4,284	6,804	13,356
Voltage @ 50-60Hz/1Ph ⁽²⁾	230	230	230
Amperage (FLA)	7.4	9.5	19.1
Max. Fuse/Min. Circuit Ampacity	10/8	10/10	20/20
Electric Heat (kW)	1.5	2.0	4.0
Water Flow (gpm/lpm)	4.5/17.0	6.0/22.7	9.0/34.1
Air Flow (cfm/cmh) Nominal	174/296	276/469	550/935
External SP (in. H ₂ O/eq. Pa)	0.72/180	0.36/90	0.75/190
Height (in/mm) ⁽³⁾	15.0/380	16.6/422	19.5/495
Width (in/mm)	20.3/514	22.6/575	26.6/676
Depth (in/mm)	12.3/311	15.3/387	18/457
Supply Air Duct Diameter (in/mm)	5.0/125	6.0/150	8.0/200
Return Air Inlet (sq. in./sq. cm)	100/645	140/900	220/1400
Loop Water Connections	1/2 in. FPT with 5/8 in. brass HB		1 in. FPT with 1 in. brass HB
Drain Pan Connections	1/2 in. FPT with PVC 5/8 in. brass HB		
Net Weight (lbs/kg)	34/15.5	41/18.6	63/28.6
Gross Weight (lbs/kg)	38/17.3	55/25.0	69/31.4

¹ Electrical and blower data is based on 50Hz performance.

² Verify voltage! Units with SCR-based controls are designed for either 208VAC or 230VAC. Add "208" to the end of the model number for 208VAC units.

³ Rotatable feet affect the final dimensions. Front feet add 1.5 in. to the front, or 1.1 in. to both sides. Rear feet do not add to the width or depth when rotated to the side.

INTERPRETING MODEL NUMBERS							
AT	24	HV	Z	-FC	-2kW	-MU	-NOCNTL
"AT" style Air Handler	Capacity X 1,000 BTU/hr	Blower HV: High-Efficiency F: External Motor	Voltage Z: 230V Blank: 115V	With Flow Control Blank: No Flow Control	Valve & Blower Orientation Blank: LO (standard)	kW of Elec. Heat Blank: No Elec. Heat	Voltage: 208 VAC Only ⁽²⁾



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Environmentally
Responsible

Dealer:

Elite Cabin Control

Keypad/Display With Networking Capability

Supports
Vimar Eikon



Elite Keypad/Display for
Vimar Eikon bezel

The Elite™ keypad/display is a microprocessor-based controller designed for the precise monitoring of split and self-contained direct expansion air conditioning systems in marine environments. The control can also be used with chilled-water air handlers and is called the AH-Elite in that application. The control operates at 115 or 230 volts, each operable at 50 or 60 cycles.

The Elite keypad/display has a sleek, modern Euro design. It features a raised buttons for easy access and control. The Mode button is used to scroll through the four modes of operation, simplifying programming. Decorative snap-on Vimar® bezels are available in a variety of colors and materials to match your vessel's interior. The original Elite display, available in grey or white, supports the Vimar Idea line of bezels. A new, second variety of Elite display is now available in grey only that supports the Vimar Eikon line of bezels.

The Elite display operates with the new Passport® I/O circuit board that utilizes state-of-the-art SMT technology. The Passport® I/O circuit board has an optional integrated CAN-bus network adapter that provides ship-wide network monitoring of multiple DX systems and air handlers. The adapter adheres to CAN-bus Standard 2.0B and is fully ISO compliant. It is available in two high-level CAN-bus communication protocols to support connection to several popular helm and cabin touchscreen control systems.

The Elite display is flash programmable, which allows for future software upgrades without the need to replace the circuit board. A ground shield protects against static interference and RF noise, and the circuit board is conformally coated to provide high resistance to external damage or corrosion. A display cable with modular jacks connects the panel to the system controller. Non-volatile memory stores all user-selectable parameters indefinitely during operation and through any power-failure situations.

The Elite control meets or exceeds applicable ABYC, U.S. Coast Guard Regulations and CE Directives.

Key Benefits

- Automatic humidity control reduces moisture when the boat is unattended
- Cool-only, heat-only, dehumidify, and automatic mode selection
- New optional electric-heat relay
- Optional CAN bus adapter puts cabin control on the ship-wide network
- Displays Fahrenheit and Celsius
- Automatic or manual fan-speed selection
- Cycle fan with compressor or continuous fan operation
- Cycle pump with compressor or continuous pump operation
- Compressor time delay staging for multiple unit applications
- Dimmable display
- Controls shaded pole and split capacitor fan motors
- Compressor fail-safe protection
- Programmable de-icing cycle
- Built-in air sensor
- Optional remote air sensor
- Available with popular Vimar bezels, including the Eikon (sold separately)

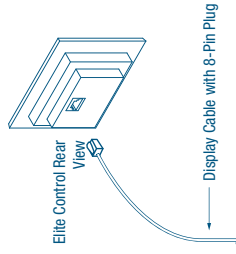
Technical Specifications for Elite Keypad/Display

VOLTAGE (VAC)	115	230
Cycle (Hz)	50/60	50/60
Phase	1	1
CIRCUITS⁽¹⁾		
Compressor Output ⁽²⁾	40A	40A
Locked Rotor Amps (LRA)	80A	80A
R.V. Output ⁽³⁾	¼ A	¼ A
Fan Output	6A	6A
Heater Output	30A	20A
Pump Output ⁽²⁾	¼ HP	¼ HP
Set Point Temperature Range	65 to 85 / -18 to 29	
Display Temperature Range	5 to 150 / -15 to 66	
Air Sensor Temperature Range	5 to 150 / -15 to 66	
Sensor Accuracy	±2°F at 77°F / ±1.1°C at 25°C	
CABLES INCLUDED⁽⁴⁾		
Water Inlet Sensor ft./m.	7.00/2.1 cable included with some AH-Elite kits	
Other Cables Available ⁽⁴⁾	Most cables available in 5 ft. (1.5 m.) increments	
Display (ft/m)	10 - 75/3.0 - 22.9 (typically 15 ft./4.6 m.)	
Alternate/Remote Air (optional)	7 - 60/2.1 - 18.3	
Outside Air Sensor (optional)	7 - 50/2.1 - 15.2	
Pump Sentry (optional)	7 - 60/2.1 - 18.3	
Water Inlet Sensor (AH-Elite)	7 - 60/2.1 - 18.3	

Dimensions for Elite Keypad/Display

BEZEL TYPE ⁽⁵⁾	VIMAR IDEA	VIMAR EIKON
Height - Display (in./mm)	2.96/75	2.88/73
Width - Display (in./mm)	4.41/112	4.45/113
Depth - Display (in./mm)	1.08/27	1.05/27
Height - Cut-Out (in./mm)	2.19/56	1.88/48
Width - Cut-Out (in./mm)	3.31/84	2.75/70
Height - Bezel (in./mm)	3.25/83	3.31/84
Width - Bezel (in./mm)	4.85/123	4.69/119

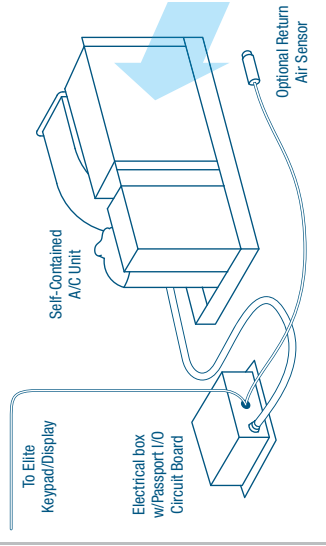
- Maximum loads should not exceed 85% of listed output ratings.
- Does not apply to AH-Elite.
- Used as water valve output in AH-Elite mode.
- Maximum length for display and air sensor cables is 75 ft. (22.9 m.). Maximum length for water inlet sensor cable is 75 ft. (22.9 m.).
- Bezels sold separately. Dimensions may vary depending on style.



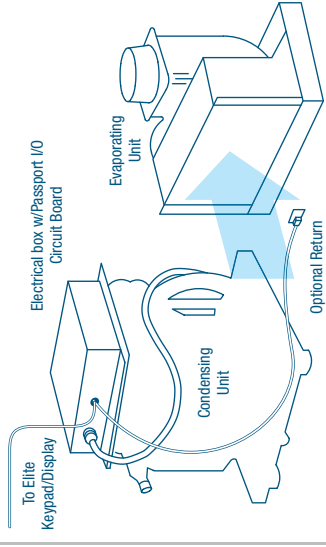
Elite Control



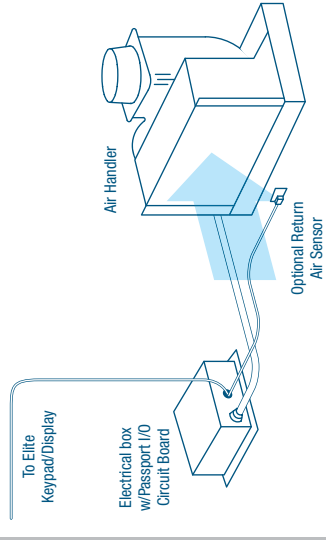
Self-Contained Systems



Split-Gas Systems



Chilled Water Systems



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Dealer:

Passport I/O Cabin Control

Easy-To-Use Keypad/Display for Marine Air Systems



Passport I/O
Compact shown



The Passport I/O Environmental Control Unit is a microprocessor based controller, designed for the precise monitoring of direct expansion and chilled water air conditioning systems in marine environments. The control is dual voltage, operating at both 115 and 230 Volts, 50/60 Hz. The display is available in both black and white. In chilled water air handlers, the control is referred to as AH-Passport I/O.

The assembly has a ground shield to protect against static interference and RF noise. The circuit board is conformally coated to provide high resistance to external damage or corrosion.

A display cable with gold plated phone-type modular jacks connects the panel to the system controller. An optional air sensor cable is connected to the circuit board in the same manner. Non-volatile memory stores all user-selectable parameters indefinitely during operation or any power failure situations.

Internal self-diagnostic programs provide complete electronic checks of all lights, sensors, keys and circuits. Fused circuits and M.O.V.s (metal oxide varistors) provide component and board protection.

The Passport I/O control meets or exceeds applicable ABYC, U.S. Coast Guard Regulations and CE Directives.

Key Benefits

- Automatic humidity control reduces moisture when the boat is unattended
- Cool-only, heat-only, dehumidify, and automatic mode selection
- New optional electric-heat relay
- Automatic or manual fan-speed selection
- Cycle fan with compressor or continuous fan operation
- Calibration of fan-speed settings and temp display for precise control
- Controls shaded pole and split capacitor fan motors
- Compressor fail-safe protection
- Programmable de-icing cycle
- Built-in air sensor
- Optional remote air sensor
- Dimmable display
- Low voltage for optimum safety

Technical Specifications for Passport I/O Keypad/Display

VOLTAGE (VAC)	115	230
Cycle (Hz)	50/60	50/60
Phase (φ)	1	1
Compressor Output ⁽¹⁾⁽²⁾	40A	40A
Locked Rotor Amps (LRA)	80A	80A
R.V. Output ⁽³⁾	¼A	¼A
Fan Output	6A	6A
Heater Output	30A	20A
Pump Output ⁽²⁾	¼ HP	½ HP
Set Point Temperature (°F/°C)	65 to 85 / 18 to 29	
Display Temperature (°F/°C)	5 to 150 / -15 to 66	
Air Sensor Temperature (°F/°C)	5 to 150 / -15 to 66	
Sensor Accuracy (°F/°C)	±2°F at 77°F / ±1.1°C at 25°C	
Display Cable (ft/m) ⁽⁴⁾	VCD & VTD: 15/4.6; CMCD: 10/3.0; CSD: 30/9.1; Chilled Water: 15/4.6	
Water Inlet Sensor Cable (ft/m) ⁽⁶⁾	7/2.1 cable included with some AH-Elite and AH-Passport I/O kits	
OPTIONAL CABLES⁽⁴⁾		
Display (ft/m)	10 - 75/3.0 - 22.9	
Alternate/Remote Air (ft/m)	7 - 60/2.1 - 18.3	
Outside Air Sensor (ft/m)	7 - 50/2.1 - 15.2	
Pump Sentry (ft/m)	7 - 60/2.1 - 18.3	
Water Inlet Sensor (ft/m) ⁽⁶⁾	7 - 60/2.1 - 18.3	

¹ Maximum loads should not exceed 85% of listed output ratings.

² Does not apply to AH-Passport I/O.

³ Used as water valve output in AH-Passport I/O.

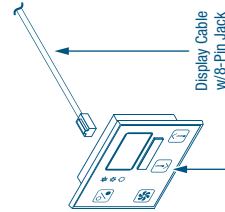
⁴ Maximum length for display and air sensor cables is 75 ft. (22.9 m). Maximum length for water inlet sensor cable is 75 ft. (22.9 m).

⁵ For AH-Passport I/O.

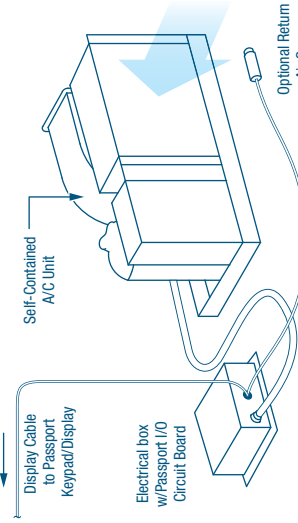
Dimensions for Passport I/O Keypad/Display

Height - Display (in./mm)	2.50/64
Width - Display (in./mm)	3.19/81
Depth - Display (in./mm)	0.94/24
Height - Cut-Out (in./mm)	1.88/48
Width - Cut-Out (in./mm)	2.50/64

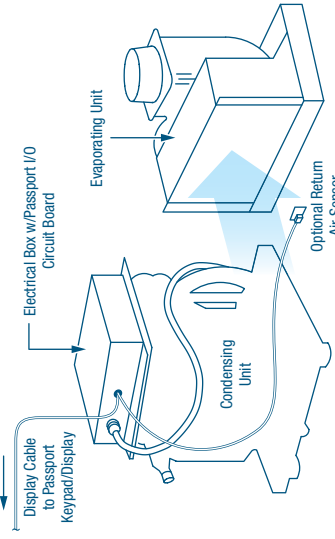
Passport Keypad/Display



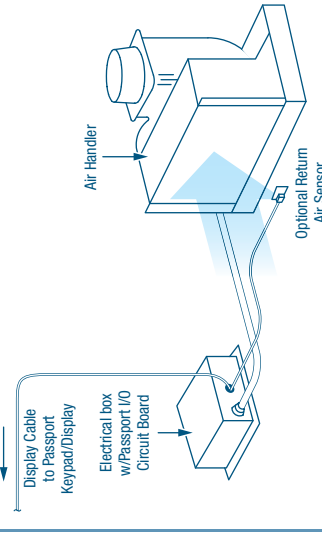
Self-Contained Systems



Split-Gas Systems



Chilled Water Systems



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Environmentally
Responsible

Dealer:

Chilled Water Master Controller (CWMC)

For Precise Staged Chiller Monitoring & Coordination



Chilled Water Master Controller box shown



The Chilled Water Master Controller (CWMC) is a microprocessor based controller designed for the precise monitoring and coordination of Digital Diagnostic Controllers (DDC) for multiple chilled water systems. The control unit provides central control for up to six chillers via interfaces with the individual DDC (with software version A23 or greater) on each chiller. It controls all of the heating and cooling functions for each chiller, as well as operation of the seawater and chilled water pumps. It optimizes compressor operation by automatically changing the lead compressor to evenly distribute run time.



The two-line lit LCD display (shown at left) provides a scrolling read-out of system status including inlet and outlet water temperature of each stage, mixed outlet water temperature of the system, compressor run times, and diagnostic faults including refrigerant high and low pressure, flow switch, low voltage, freeze warning, and high water temperature limit. It also interfaces with a PC via a serial port permitting remote control and monitoring. The PC software also permits the system to be programmed in several different languages. Note that a PC is optional — not required—and the software is available on request.

The entire assembly is grounded and protected against static interference and RF noise. The circuit board is conformally coated to provide high resistance to external damage or corrosion.

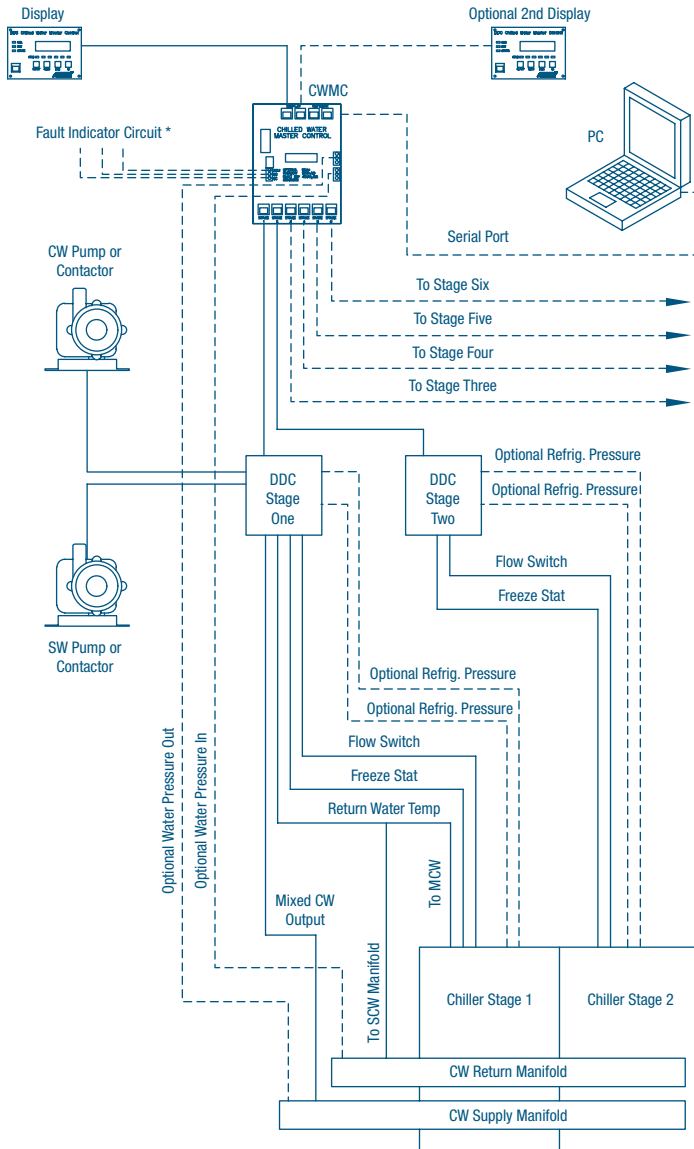
A display cable with phone-type modular jacks connects the display to the circuit board. The circuit board has two display jacks. One jack is used for the display local to the chiller the second jack allows a second display to be remotely installed on the bridge or elsewhere. Non-volatile memory stores all user-selectable parameters indefinitely during operation or any power failure situations.

Internal self-diagnostic programs provide complete electronic checks of all lights, sensors, keys, and circuits. The CWMC controller meets or exceeds applicable ABYC, U.S. Coast Guard Regulations and CE Directives.

Key Benefits

- Provides central control for chillers with up to six stages
- Optimizes compressor operation
- Displays water temperatures, compressor run times, diagnostic faults, and more
- Interfaces with a PC via serial port for remote control and monitoring (PC sold separately)
- Circuit board is coated for high resistance to damage and corrosion
- Grounded and protected against static interference and RF noise
- Meets or exceeds applicable ABYC, US Coast Guard regulations, and CE directives

Chilled Water Master Controller Typical Installation



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Environmentally Responsible

Dealer:

Tempered Water Logic Control (TWLC)

For Precise Staged Chiller Monitoring & Coordination



TWLC box for Marine Air chillers shown

The TWLC (Tempered Water Logic Control) is an advanced microprocessor chiller control specifically designed for marine circulated water systems. The TWLC system maximizes system performance, protects the chillers with advanced fault protection monitoring and shut-down routines, and has easy menu-driven operation supplying the user with important system information.

System redundancy and easy field repair were the priorities when the TWLC was developed. Each chiller in a TWLC system has a dedicated power/logic board, and the boards are networked together to form an integrated system (automatically controlling up to 6 chillers). This design means that a single board or network failure will not shut down the entire system. The P/L board has board-mounted LEDs to help with troubleshooting, replaceable EPROM for software upgrades, and plug-in terminal strips and RJ-12 jacks which allow for quick field installation.

Interaction with the system is through the TWLC keypad/display. A simple 4-button keypad is used to change operation mode and to navigate through the menus to view and change system parameters. A backlit LCD display supplies easy to read information about the system, including water temperatures, operation mode, which chillers are running, and other detailed information. Three small LEDs on the keypad clearly indicate Cool or Heat modes, and faults. An alarm buzzer on the keypad can also signal a fault. Additional TWLC keypads can be installed to allow remote system access.

Set up and operation of the TWLC is fully automatic. It senses how many units are connected and programs the temperature staging and unit rotation of the units to pre-programmed parameters. The TWLC board has non-volatile memory so settings and recorded information are not lost even if power is interrupted. The large memory capacity allows the TWLC to record run time of the compressors and pumps, and store the fault history of each unit.

The system monitors all the inputs and will display 12 different faults based on the information received. Each fault has a specific routine that protects the unit while helping to prevent nuisance faults. Some will generate a sustained shutdown, which must be reset from the TWLC keypad.

Key Benefits

- Provides central control for chillers with up to six stages
- Optimizes compressor operation
- Displays water temperatures, compressor run times, diagnostic faults, and more
- Interfaces with a PC via serial port for remote control and monitoring (PC sold separately)
- Keypad/display has four-button and four-line LCD
- Circuit breakers for compressors and pumps
- Records and logs faults and run times
- Optional current transducers to monitor compressor and pump amperage
- Optional seawater temperature sensors
- Optional refrigerant pressure transducers
- Optional loop water and seawater pressure transducers
- Control over optional electric immersion heat or fuel-fired boiler
- Optional remote unit shutdown for load shedding
- Optional fault signal output for remote alarm

If a fault is sensed, the fault LED on the TWLC keypad will light (and the buzzer will sound, if activated) and the specific fault will be displayed on the LCD screen. The fault signal output on the P/L boards will also be powered.

Another feature of the TWLC is that it can be connected to an on-board computer or modem to allow full remote access of the system. Custom software emulates the TWLC on the computer screen and navigation through the menus is identical to the TWLC keypad/display. If a land phone line is available, a modem can be connected and the system can be viewed and operated remotely, allowing a knowledgeable service agent to troubleshoot the system anywhere in the world.

The TWLC is available only as part of multi-unit chiller package. The custom panel will include the microprocessor boards, keypad/display, circuit breakers and relays for the compressors and pumps. Wiring from the panel to the chillers is also included. A control power transformer is included on 380-460V panels.

Because each multi-unit panel is custom built, there are many options available:

- Spare Pump Switch – Selector switches can be added for backup (spare) pumps.
- Multiple Power Inputs – Up to 3 power blocks can be installed to help divide the chiller and pump loads.
- Auxiliary Water Heater – If an auxiliary water heater is desired, the panel can be built with the appropriate breakers and contactors to control the heater.
- Fault Output Relay – A set of “dry” contacts can be installed to operate an alarm on the vessel’s monitoring system.
- Longer Wire Harness – The standard harness is 10 ft (3 m) but longer harnesses are available, up to 30 ft. (9 m).
- Frame Mounted Panel – If a framed chiller is ordered, the panel can be mounted on the frame.
- Load Shedding – Terminals can be provided in the panel to allow a load-shedding system to remotely shut down individual chillers.

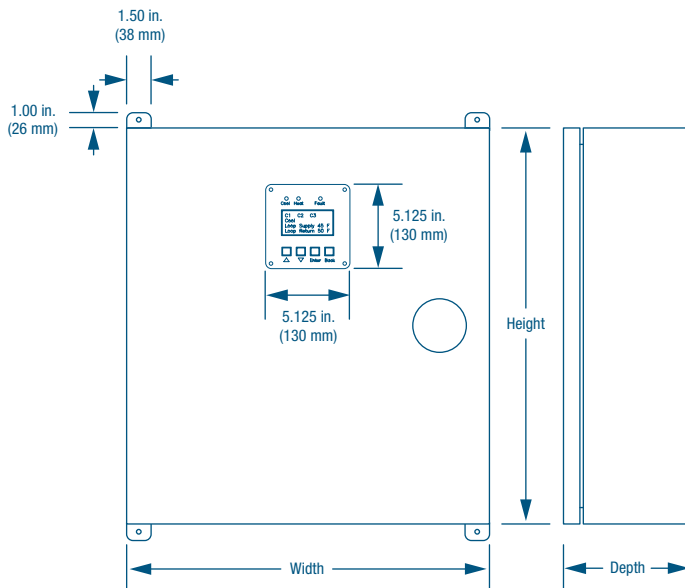
In addition to the options above, two different upgrade packages are available for multi-unit panels:

- The Level 1 upgrade package adds current transducers for the compressors and pumps, seawater out temperature sensors in each chiller, a common seawater inlet temperature sensor, and the computer and modem adapters.
- The Level 2 package includes all items in Level 1, plus: high and low refrigerant pressure transducers for each chiller, a seawater pressure transducer (to install on the discharge of the seawater pump) and a loop water pressure transducer (to install on the inlet of the loop water pump).

Dimensions for Tempered Water Logic Control Box⁽¹⁾

NO. OF MODULES	WIDTH (IN/MM)	HEIGHT (IN/MM)
2 - 3	22.0/560	24.0/610
4	30.0/760	24.0/610
5	35.0/890	24.0/610

⁽¹⁾ Dimensions for standard TWLC. Options such as transducers, spare pump switches, multiple power inputs, etc., may require the next larger control box size.



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Dealer:

In-Duct Breathe Easy™ Air Purifier

Stops Odors and Reduces Unhealthy Contaminants

IBEX
Innovation
Award Winner

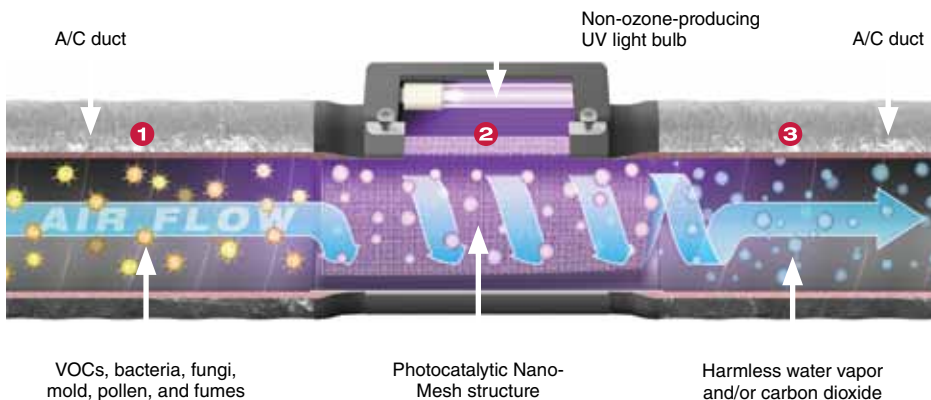


In-Duct Breathe Easy Air Purifier

Reduce the odors of tobacco smoke, mildew, mustiness, chemical vapors and toilets, and inhale fresher, cleaner, healthier air. The in-duct Breathe Easy Air Purifier uses innovative Photocatalytic Nano-Mesh technology with ultraviolet (UV) light to improve air quality. The UV bulb inside uses a specific frequency of light that produces no harmful ozone.

How It Works

- 1 Biological contaminants like VOCs, mold spores, bacteria, and viruses pass through the air conditioning duct and into the air purifier system.
- 2 UV light energy activates the titanium-dioxide catalyst on the surface of the nano-mesh structure. The molecules of pollutants and odors that come in contact with the catalytic nano-mesh structure are reconfigured into non-toxic elements. Vortex action maximizes air contact with the catalytic surface.
- 3 Significantly cleaner, healthier air exits the photocatalytic air purifier.



Key Benefits

- Reduces mold spores, bacteria, viruses, and fumes, and enhances air quality
- Eliminates unpleasant odors
- Uses an intense ultraviolet (UV) light that produces no harmful ozone
- Cleaner air may lessen allergy and asthma symptoms
- Silent operation
- Up to 100% reduction in diesel fumes, acetone, benzene, formaldehyde, and other VOCs
- Up to 100% reduction in bacteria, fungi, mold, and pollen
- Photocatalytic nano-mesh structure will not degrade under UV light
- UV bulb is easy to replace
- Sizes for common duct diameters

Product Testimonial

"I live onboard when we travel and always had problems with congestion and sinus drainage, but have not had a problem with that since we put the Breathe Easy on the boat. I'm very pleased with the product."

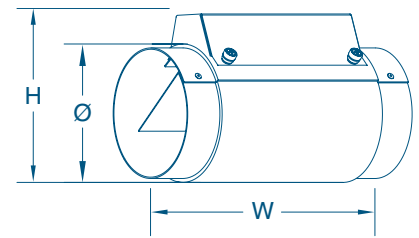
— Gray Ingram, Boat Owner and Sportfishing Tournament Champion

Technical Specifications for In-Duct Breathe Easy Air Purifiers

MODEL	4 IN. IN-DUCT TUBE	5 IN. IN-DUCT TUBE	6 IN. IN-DUCT TUBE	7 IN. IN-DUCT TUBE	8 IN. IN-DUCT TUBE
Capacity ⁽¹⁾	6K BTU/hr	7K - 8K BTU/hr	10K - 12K BTU/hr	14K - 16K BTU/hr	24K BTU/hr
Volts/Hz/mA	115/60/200 220/50/350 230/60/200	115/60/200 220/50/350 230/60/200	115/60/200 220/50/350 230/60/200	115/60/250 220/50/350 230/60/225	115/60/250 220/50/350 230/60/225
UV Bulb Watts	12	12	12	20	20
Diameter (in/mm) ⁽²⁾	4.50/114	5.50/140	6.50/165	7.50/191	8.50/216
Height (in/mm) ⁽²⁾	5.25/133	6.50/165	7.50/191	8.50/216	9.50/241
Width (in/mm) ⁽²⁾	10.50/267	10.50/267	10.50/267	13.50/343	13.50/343

¹ Purification capacity of in-duct units equals or exceeds the airflow and BTU capability of its duct size.

² Dimensions are overall, including grommets, insulation, and duct rings.



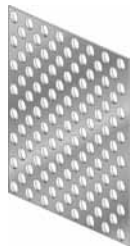
Competitive Advantages

Photocatalytic Nano-Mesh Technology

- A 3-dimensional Photocatalytic Nano-Mesh structure coated with titanium-dioxide (TiO₂) provides maximum surface area for maximum destruction of airborne contaminants that come in contact with it.
- Little or no reduction in air flow because the Photocatalytic Nano-Mesh structure creates very little static pressure.
- Does not need to be cleaned, maintained, or replaced.



Dometic's Photocatalytic Nano-Mesh structure



Competitor's screen structure

UV Lamps

Sized for the dimensions of the Photocatalytic Nano-Mesh structure, a single UV bulb with dual tubes provides greater intensity and service coverage to activate more of the photocatalytic material for high-performance results.

Safe & Effective Catalyst

Titanium-dioxide is in many common products, including pigments, processed foods, toothpaste and cosmetics. It is harmless to people, pets, plants, and the environment.

Laboratory Test Results

Testing of the Breathe Easy Air Purifier performed by Environmental Diagnostics Laboratory showed up to 98% reduction in volatile organic compounds (VOCs) and up to 100% reduction in bacteria, fungi, mold, and pollen grains.

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Environmentally
Responsible

The Power of Photocatalytic Nano-Mesh Technology

Photocatalytic Nano-Mesh technology removes airborne contaminants that pass through the system and contact the photocatalytic surface. As air re-circulates it makes multiple passes through the system for continuously improving purification levels.

Photocatalytic air purification only occurs when airborne contaminants physically touch the catalyst. Innovative Photocatalytic Nano-Mesh technology creates a much greater contact surface for much greater results.

The Breathe Easy Air Purifier's three-dimensional Photocatalytic Nano-Mesh structure is constructed of metalized foam. This minutely intricate construction provides 2200% more surface area for holding the molecular catalytic coating than is possible with a simple screen structure. This unique design also provides scant air resistance, so there is no noticeable decrease in air flow.

In addition, through the science of nanotechnology, the titanium-dioxide catalyst is restructured at the molecular level to have an increased number of contact surfaces. This formation puts 70% larger molecules on the contact surface and dramatically improves reactivity with contaminants.

Two Innovative Models

- In-Duct Tube: Air purifier tube is installed within ducting line and uses the air-conditioning system's blower to move air past the UV light and Photocatalytic Nano-Mesh structure. Available in tube sizes to fit all common duct diameters.
- Portable: Small and lightweight, the portable air purifier can be situated anywhere and uses an internal fan to move air past the UV light and Photocatalytic Nano-Mesh structure. It is suitable for areas up to 100 sq. ft. (9.3 sq. m) and operates on both DC and AC voltages.

Note: The Breathe Easy Air Purifier does not fix the source of ongoing odor problems. For example, a leak that caused mold must be repaired and the mold must be removed.

Dealer:

Portable Breathe Easy™ Air Purifier

Stops Odors and Improves Air Quality

AC or DC
Powered

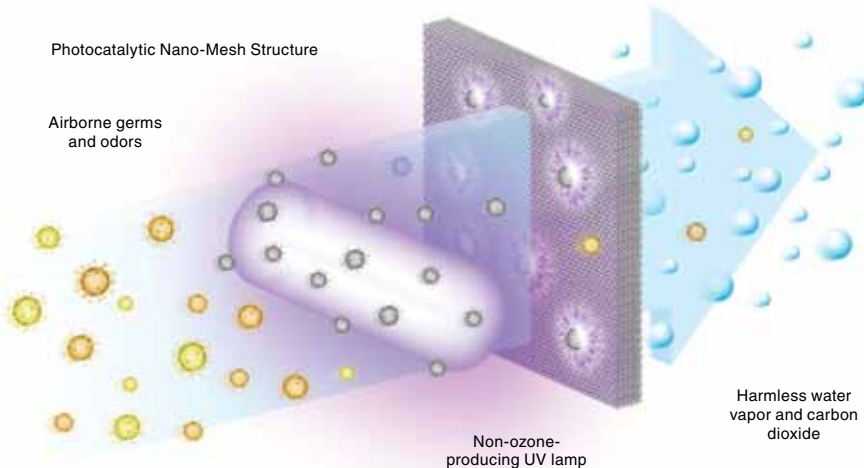


Includes worldwide AC adapter with plugs and 12V DC power plug.

Reduce the odors of tobacco smoke, mildew, mustiness, chemical vapors, and toilets, and inhale fresher, cleaner, healthier air. Effective in areas up to 100 sq. ft. (9.3 sq. m), the portable Breathe Easy Air Purifier uses innovative Photocatalytic Nano-Mesh technology with ultraviolet (UV) light to improve air quality. The UV bulb inside uses a specific frequency of light that produces no harmful ozone. The unit operates quietly and has two fan-speed settings.

How It Works

- 1 Biological contaminants like VOCs, mold spores, bacteria, and viruses pass through the air conditioning duct and into the air purifier system.
- 2 UV light energy activates the titanium-dioxide catalyst on the surface of the nano-mesh structure. The molecules of pollutants and odors that come in contact with the catalytic nano-mesh structure are reconfigured into non-toxic elements. Vortex action maximizes air contact with the catalytic surface.
- 3 Significantly cleaner, healthier air exits the photocatalytic air purifier.



Key Benefits

- Reduces mold spores, bacteria, viruses, and fumes, and enhances air quality
- Eliminates unpleasant odors
- Uses an intense ultraviolet (UV) light that produces no harmful ozone
- Cleaner air may lessen allergy and asthma symptoms
- Quiet operation with two fan speeds
- Up to 96% reduction in diesel fumes, acetone, benzene, formaldehyde, and other VOCs
- Up to 99% reduction in bacteria, fungi, mold, and pollen
- Photocatalytic nano-mesh structure will not degrade under UV light
- UV bulb is easy to replace
- Effective in areas up to 100 sq. ft. (9.3 sq. m)
- Worldwide AC power adapter with plugs and 12V DC power plug included

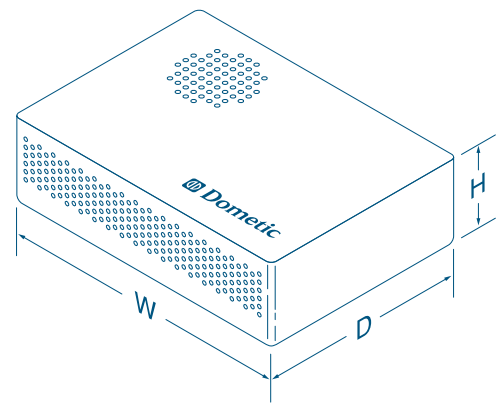
Product Testimonial

"While changing the fuel filter there was a minor diesel spill that permeated the boat. We discovered the Breathe Easy unit and it made all the difference in the world. No more smell and everybody could breathe easy!"

— Nancy Gates-Lee, Boat Owner

Technical Specifications for Portable Breathe Easy Air Purifier

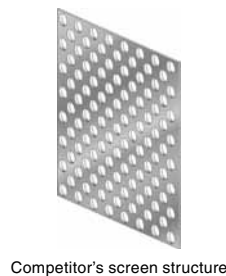
MODEL	PORTABLE
Capacity	Up to 100 sq. ft. (9.3 sq. m)
Volts/Hz/mA	115/60/300 220/50/200 230/60/275 12VDC/-/500
UV Bulb Watts	5
Height (in/mm)	1.75/45
Width (in/mm)	6.25/159
Depth (in/mm)	4.50/115



Competitive Advantages

Photocatalytic Nano-Mesh Technology

- A 3-dimensional Photocatalytic Nano-Mesh structure coated with titanium-dioxide (TiO₂) provides maximum surface area for maximum neutralization of airborne contaminants that come in contact with it.
- Little or no reduction in air flow because the Photocatalytic Nano-Mesh structure creates very little static pressure.
- Does not need to be cleaned, maintained, or replaced.



UV Bulbs

Sized for the dimensions of the Photocatalytic Nano-Mesh structure, a single UV bulb with dual tubes provides greater intensity and service coverage to activate more of the photocatalytic material for high-performance results.

Safe & Effective Catalyst

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Laboratory Test Results

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In addition, through the science of nanotechnology, the titanium-dioxide catalyst is restructured at the molecular level to have an increased number of contact surfaces. This formation puts 70% larger molecules on the contact surface and dramatically improves reactivity with contaminants.

Two Innovative Models

- In-Line Ductable: Air purifier ducting tube is installed within ducting line and uses the air-conditioning system's blower to move air past the UV light and Photocatalytic Nano-Mesh structure. Available in tube sizes to fit all common duct diameters.
- Portable: Small and lightweight, the portable air purifier can be situated anywhere and uses an internal fan to move air past the UV light and Photocatalytic Nano-Mesh structure. It is suitable for areas up to 100 sq. ft. (9.3 sq. m) and operates on both DC and AC voltages.

Note: The Breathe Easy Air Purifier does not fix the source of ongoing odor problems. For example, a leak that caused mold must be repaired and the mold must be removed.

Dealer:



Breathe Easy Microparticle Air Filters

7X More Effective Than Ordinary A/C Filters

Rated
Merv 7



Enjoy cleaner, improved air quality on your boat with Breathe Easy™ Air Filters. Breathe Easy micro-particle, anti-allergenic air filters are rated Merv 7, making them seven times more effective than ordinary air filters.

Breathe Easy Air Filters are efficient and disposable, and are available for most Dometic air conditioning systems.

Breathe Easy™ Air Filters are easily installed and are available for most Dometic air conditioning systems.



Key Benefits

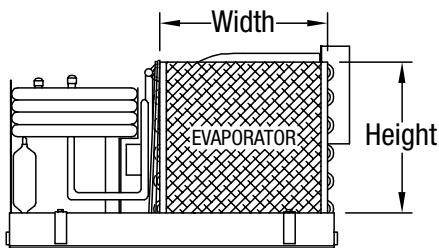
- Rated Merv 7 - 7X more effective at capturing airborne microparticles than ordinary foam and mesh filters
- Capture fumes, odors, dust, lint, and pet dander
- Electrostatically-charged fibers attract and retain microparticles that pass through the filter
- Easy installation for all types and models of Marine Air air conditioning systems
- Custom sizes available

FILTER P/N	FITS CRUISAIR A/C MODELS	FITS MARINE AIR A/C MODELS	FITS DOMETIC A/C MODELS	WIDTH (IN/MM)	HEIGHT (IN/MM)
235000600	SXF5, SXF5-1, SHF5, SHF5-1, ZF5, ZF5-1	VCD5K/1, VCP5K, VCM5K, VCM5K/1, CLM5KC, CLM5KC/1	ECM5, ECD5	7-7/8 x 9	200 x 229
235000601	SXF7, SXF7-1, SHF7, SHF7-1, SXR7-1, SHR7-1, SXR10, SHR10, SXR12, SHR12	VCD7K/1, VCP7K, VCM7K, VCM7K/1, CMCD7K/1, CMCM7K, CMCM7K/1	ECM6.5, ECD6.5	9-3/8 x 10	238 x 254
235000602	SXR7, SHR7 (old style 7K), ZF3.5	CD3.5, SVCM3.5, CLM3.5	N/A	8-1/8 x 8	206 x 203
235000603	SXF10-1, SHF10-1, ZF10-1	VCD10K/1, VCM10K/1, CLM10KC/1, CMCD10K/1, CMCM10K/1	ECM9, ECD9	10-7/8 x 10	276 x 254
235000604	SXF10, SHF10, ZF10, ZF12	VCP10K, VCM10K, CLM10KC, CLM12KC, CMCP10K, CMCM10K	N/A	11-7/8 x 10	302 x 254
235000605	SXF12-1, SHF12-1, SXF16-1, SHF16-1, ZF12-1, SXR16, SHR16, ZF16-1, STX14, STX16, STQ14, STQ16, STH14, STH16	VCD12K/1, VCM12K/1, CLM12KC/1, CMCD12K/1, CMCM12K/1, VCD16K/1, VCM16K/1, CLM16KC/1, CMCD16K/1, CMCM16K/1, VTD14, VTD16, VTM14, VTM16	ECM11, ECD11	10-7/8 x 12	276 x 305
235000606	SXF12, SHF12, SXF16, SHF16, SXF18, SHF18, ZF16	VCP12K, VCM12K, VCP16K, VCM16K, VCD18, CLM16KC, CMCP16K, CMCM16K	ECM15, ECD15	11-7/8 x 12	302 x 305
235000607	SXF24, SXF24-1, SHF24, SHF24-1 (special order)	VCD24K/1, VCP24K, VCM24K, VCM24K/1 (special order)	N/A	16-3/8 x 16	416 x 406
235000608	SX24, SH24 (special order)	N/A	N/A	15-1/8 x 17	384 x 432
235000638	STX6, STX8, STQ6, STQ8, STH6, STH8	VTD6, VTD8, VTM6, VTM8	N/A	8-7/8 x 10-1/4	226 x 261
235000639	STX10, STX12, STQ10, STQ12, STH10, STH12	VTD10, VTD12, VTM10, VTM12	N/A	10-7/8 x 11-1/2	276 x 293

Note to Customer: Please pay close attention to A/C models 10, 12, and 16, and whether or not they have the suffix "-1" or "/1" in the model number. Additionally, unit filters for all 5-16K models with the suffix "-1" and "/1" unit filters are interchangeable with "-2" and "/2" units.

Decide What Size You Need

Locate the data plate on the air conditioning unit and determine the model number or BTU capacity, and measure the size of the evaporator face to determine the correct filter size. Note: the evaporator is the large square corrugated metal piece situated just behind the blower.



How To Install the Filter

The filter should be installed directly over the face of the evaporator, using the existing brackets on the air conditioning unit. If there are no installed brackets to hold the filter in place, use the pins contained in this package to attach the filter. Press the pins through the four corners of the filter and into the spaces between the thin metal fins on the evaporator face.

Note: These high-efficiency filters should not be used in conjunction with any other filters or screens. Make sure you remove any existing filters or screens in the return air path.

When To Replace the Filter

Because of its high efficiency in filtering air, the white filters should be changed at frequent intervals to maintain the air quality, and to avoid restricting airflow. Failure to change filters at the recommended intervals can cause the air conditioner to shut down from lack of air flow or from an icing condition.

- Every 2 months – live aboard conditions or a boat where the air conditioner runs constantly.
- Every 4 months – using the boat 3 weekends of every month.
- Every 6 months – using the air conditioner 1 – 2 times per month.

Please contact your Cruisair or Marine Air dealer to order air filter replacements.

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Environmentally
Responsible

Dealer:

SmartStart™ Soft Starter

NEW

Eliminates Start-Up Spikes



SmartStart™ Model
#4220040 shown

The SmartStart™ is a unique device that smooths out startup power demand of the air conditioner's compressor instead of spiking it, reducing amp requirements by up to 65%. The technology uses dynamic feedback control to reduce the inrush of current by starting the compressor motor slowly. No other soft starter in the industry provides better performance.

Once running, an air conditioning compressor has a much lower, steady amp draw, but the initial locked-rotor amps needed to start the system can create high current surges that could adversely affect the operation of an overstrained power source.

In some situations, this gentler method of handling the power surge can mean the difference between keeping the generator you have or investing thousands of dollars in a larger generator.

For boats without a generator, the SmartStart™ may allow the option of powering an air conditioning system from an inverter.

When running on dock power, a SmartStart™ may resolve issues where the power source or connection may be weak.

Not only does the SmartStart™ ease strain on the power source, it's also less stressful for the compressor itself since it starts more gently. Additionally, it provides valuable protection by shutting down the compressor if the power source or the connection to the compressor is briefly interrupted, then it reattempts a soft start after a three-minute delay.

All this power comes in a surprisingly small package. At only 5 x 3 x 2 in. (127 x 76 x 51 mm), the SmartStart™ takes up little space and weighs only 15 oz. (0.43 kg.). The SmartStart™ is wired directly into the air-conditioning system's electrical box.

Key Benefits

- Reduces strain on the power source
- Reduces brown-out effects at compressor start-up
- May enable an inverter to power the air conditioner
- May eliminate the need to upgrade the generator
- Inexpensive, small, and lightweight

Product Testimonial

"The generator's control circuit would trip and stop the generator due to the inrush of the Emiko's heat pump. The SmartStart reduced that inrush of current so the generator would continue to run.

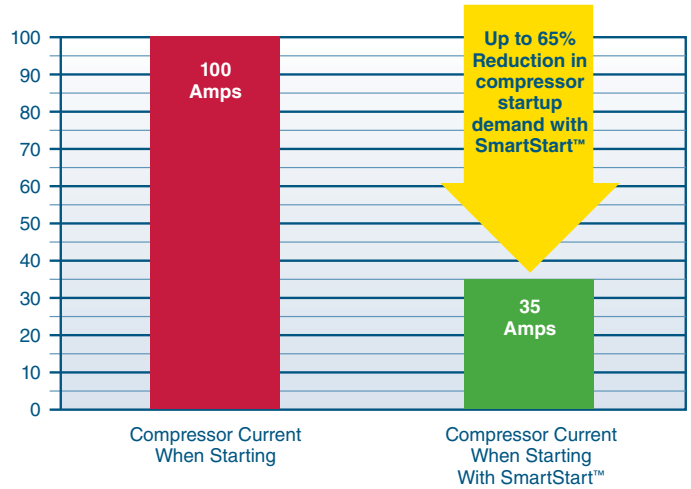
We started with an inrush of 77 amps and finished with an inrush of only 20 amps. [The SmartStart] is a great solution to our problem."

— John Poole, Poole Refrigeration Service, Alameda, CA, M/V Emiko (37 ft. Nordic Tug)

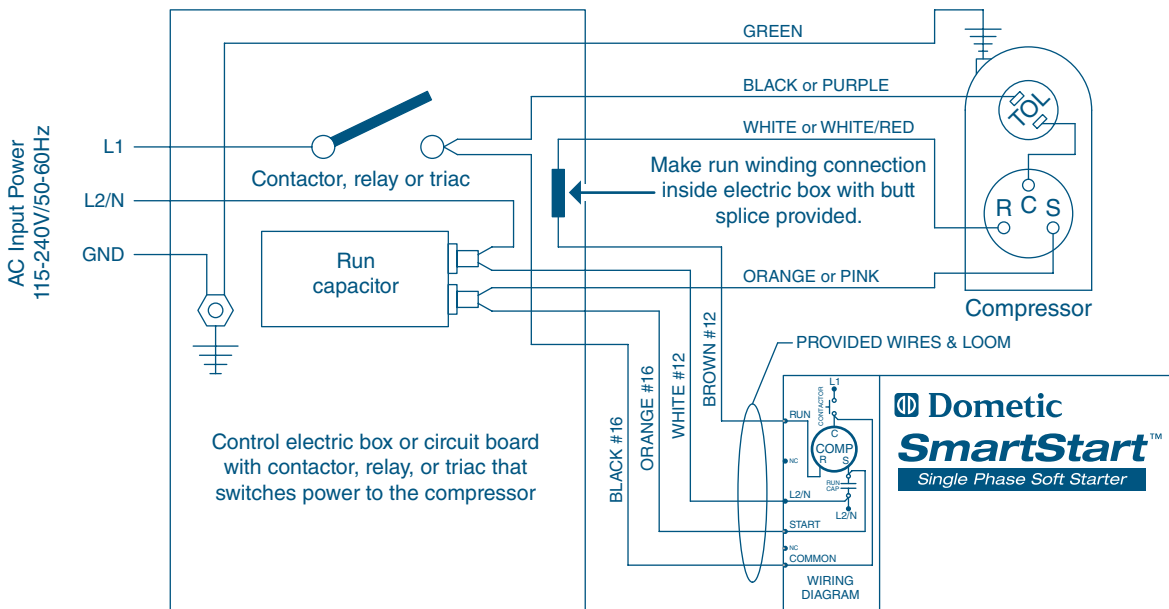
Technical Specifications for SmartStart™

MODEL	VOLTAGE (VOLTS) / FREQUENCY (HZ)	SUPPORTED COMPRESSOR CAPACITY RANGE (BTUS)
4220040	115/60	5K-18K
4220043	208-240/50-60	12K-30K
4220044	208-240/50-60	36K-60K
SMARTSTART™ ACCESSORIES		
4220045	Optional Mounting Tray	

- Maximum continuous current for all models: 32 Amps.
- Typical start surge reduction as compared to compressor locked-rotor amperage (LRA): 65%.



SmartStart™ Wiring Diagram



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Environmentally Responsible

Dealer:

March Marine Pumps

Ultra-Durable Centrifugal Seawater Pumps



Clockwise from left:
LC-2CP-MD, AC-5CP-MD,
and LC-3CP-MD

March Marine centrifugal pumps are an excellent choice for providing seawater circulation for marine air conditioning systems. The proven magnetic drive eliminates the troublesome mechanical shaft seal.

There is no seal wear, power-robbing friction, or leakage through the seal. The impeller and drive magnets are strong, permanent ceramic types, which prevent slippage, ensuring that full motor power is converted into pumping power.

Centrifugal pumps require a flooded inlet and should be mounted below the waterline. However, an optional priming reservoir is available for applications where the pump must be mounted above the waterline (2.0 ft./0.6 m max.).

“LC” models have liquid-cooled motors and can be run in open air or submerged. “AC” models have air-cooled, open drip-proof motors and must be in a dry environment.

Replacement parts for March pumps are available through Dometic.

Key Benefits

- Magnetic-drive impeller means no seal to wear, leak, or repair
- Efficient motor with low power consumption
- Includes a sturdy marine-grade base
- 115V and 230V models
- Liquid-cooled (submersible) and air-cooled motors available
- All components in contact with water are plastic, ceramic, or stainless steel
- 6 ft. (1.8 m) power cord is standard
- Optional priming reservoir available for above-waterline applications
- 1-year warranty on parts

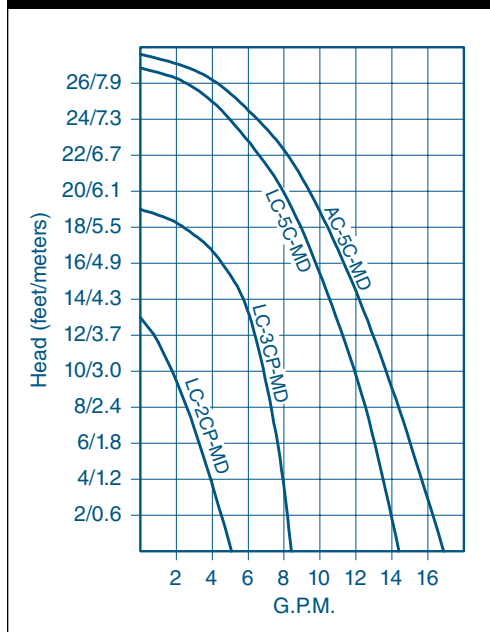
Technical Specifications for March Centrifugal Seawater Pumps

MODEL	MAX. FLOW (GPM)	MAX. HEAD (FT/M)	INLET CONNECTION	OUTLET CONNECTION	MOTOR HP	VOLTS	FREQ. ⁽¹⁾	AMPS	WEIGHT (LBS/KG)	MOTOR TYPE ⁽²⁾	WET END ASSEMBLY
LC-2CP-MD 115V	5.0	13/3.9	3/4 in. MPT	1/4 in. MPT	1/35	115V	50/60Hz	1.00	5.0/2.3	TE/SUB	A-507P
LC-2CP-MD 230V	5.0	13/3.9	3/4 in. MPT	1/4 in. MPT	1/35	230V	50/60Hz	0.53	5.0/2.3	TE/SUB	A-507P
LC-3CP-MD 115V	8.5	19/5.8	3/4 in. FPT	1/2 in. MPT	1/20	115V	60Hz	2.00	9.0/4.1	TE/SUB	A-508P
LC-3CP-MD 230V	8.5	19/5.8	3/4 in. FPT	1/2 in. MPT	1/20	230V	60Hz	1.00	9.0/4.1	TE/SUB	A-508P
LC-5C-MD 115V	14.5	27/8.2	1 in. FPT	1/2 in. MPT	1/8	115V	50/60Hz	2.20	15.5/7.0	TE/SUB	A-506LC
LC-5C-MD 230V	14.5	27/8.2	1 in. FPT	1/2 in. MPT	1/8	230V	50/60Hz	1.10	15.5/7.0	TE/SUB	A-506LC
AC-5C-MD 115V	17.0	27/8.2	1 in. FPT	1/2 in. MPT	1/8	115V	50/60Hz	2.10	10.0/4.5	OD	A-506
AC-5C-MD 230V	17.0	27/8.2	1 in. FPT	1/2 in. MPT	1/8	230V	50/60Hz	1.00	10.0/4.5	OD	A-506

¹ Standard 50/60Hz pumps may be operated at 50Hz and reduced voltages. However, there will be a 17% reduction in flow rate and as much as a 30% drop in head in that application. The model LC-3CP-MD pump is 60Hz only and may not be operated at 50Hz.

² The TE/SUB is a totally-enclosed, liquid-cooled motor and can be operated in the open air or submerged. The OD is an open drip-proof, air-cooled motor and must be kept dry.

Performance Curve



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Environmentally
Responsible

Dealer:

Heavy-Duty Seawater Pumps

Reliable and Durable Centrifugal Pumps



P3600B3X and
PML500CL shown

Marine Air specifies reliable, heavy-duty centrifugal pumps to provide a steady flow of cooling water through the air conditioning system.

The glass-reinforced polypropylene head pumps have magnetic drive impellers, and are available with submersible or air-cooled motors. Larger pumps have bronze heads with mechanical seals, and air-cooled, drip-proof motors. A wide range of pumps and motors are available for use in different power environments.

Centrifugal pumps must be mounted below the water line. Self-priming pumps are also available for above-water-line applications. A scoop type through-hull and a seawater strainer are recommended for proper operation.

When more than one air conditioning unit is served by a single pump, a separate pump relay is used. To complete the installation, Marine Air can also supply water manifolds, hose, and fittings.

Key Benefits

- High-capacity centrifugal pumps
- Quiet operation
- Low maintenance
- Single-phase motors have built-in thermal overload and ignition protection
- Three-phase ignition protected motors
- Seawater-grade construction with glass-filled polypropylene or bronze pump heads
- Water-cooled (submersible) or air-cooled motors
- Cushioned mounts reduce noise and vibration
- High-head pressure models available
- Self-priming pumps available
- Meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration (ARI) standards

MODEL	VOLTS/HZ/PHASE ⁽¹⁾	AMPS	IP ⁽²⁾	HP	GPM ⁽³⁾ @ FEET OF HEAD ⁽⁴⁾	CAPACITY (BTU/HR) ⁽⁵⁾	INLET X OUTLET	HEIGHT (IN/MM)	WIDTH (IN/MM)	LENGTH (IN/MM)	NET WEIGHT (LB/KG)
P800 12VDC	12 VDC	1.0	N	1/150	2.0 @ 7 ft.	6,000	3/8" FPT X 3/8" OD	3.75/95	2.81/71	5.13/130	1.2/0.5
PMLL150-12V DC PMLL150-24V DC	12 VDC 24 VDC	1.0 0.5	N N	1/150	2.0 @ 7 ft.	6,000	3/8" FPT X 3/2" HB	3.0/76	2.75/70	4.5/114	1.0/0.5
PML250 PML250C	115/60/1 230/50-60/1	1.0 0.5	Y Y	1/35	3.0 @ 7 ft.	12,000	3/4" MPT X 1/4" MPT	4.70/119	5.60/142	6.20/157	5.0/2.3
P900-12V DC P900-24V DC	12 VDC 24 VDC	3.8 1.9	N N	1/25	3.0 @ 6.5 ft.	12,000	1/2" FPT X 1/2" HB	4.5/114	3.5/89	9.0/229	4.5/2.0
PML500L PML500CL PML500CK	115/60/1 230/50-60/1 220/50/1	2.0 1.0 0.8	Y Y Y	1/20	6.0 @ 14 ft. 6.0 @ 14 ft. 6.0 @ 9.5 ft.	24,000 24,000 20,000	3/4" FPT X 1/2" MPT	5.60/142	5.60/142	7.40/188	9.0/4.1
PMA500 PMA500C PMA500CK	115/60/1 230/50-60/1 220/50/1	2.4 1.2 0.9	Y Y Y	1/12	7.5 @ 14 ft. 7.5 @ 14 ft. 5.0 @ 11 ft.	30,000 30,000 20,000	3/4" FPT X 1/2" MPT	5.0/127	4.0/102	9.0/229	7.0/3.2
PMA1000 PMA1000C	115/60/1 230/50-60/1	2.1 1.0	Y Y	1/8	12.0 @ 14 ft.	48,000	1" FPT X 1/2" MPT	6.25/159	4.50/114	9.10/231	10/4.5
P100 P100Z	115/60/1 230/50-60/1	7.2 3.6	Y Y	1/3	15.0 @ 16 ft.	60,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	25/11
P120 P120Z	115/60/1 230/50-60/1	4.9 3.5	Y Y	1/3	21.0 @ 25 ft.	84,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	25/11
P700 P700Z	115/60/1 230/50-60/1	7.2 3.6	Y Y	1/3	32.0 @ 21 ft.	128,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	26/12
P110Z-3 PHP110-460/3PH P110-380/3PH	230/50-60/3 460/60/3 380/50/3	2.8 1.4 1.7	Y Y Y	1/2	18.0 @ 20 ft. 18.0 @ 20 ft. 15.0 @ 15 ft.	72,000 72,000 60,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	25/11
P700Z-3PH P700-460/3PH P700Z50-3PH P700-380/3PH	230/50-60/3 460/50-60/3 220/50/3 380/50/3	2.8 1.4 2.9 1.7	Y Y Y Y	1/2	32.0 @ 32 ft. 32.0 @ 32 ft. 32.0 @ 21 ft. 32.0 @ 21 ft.	128,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	30/14
P710 P710Z P710Z-3PH P710-460/3PH P710Z50 P710Z50-3PH P710-380/3PH	115/50-60/1 230/50-60/1 230/60/3 460/60/3 220/50/1 380/50/3 380/50/3	9.8 4.9 2.2 1.1 7.2 3.3 1.9	N N Y Y N Y Y	1/2 1/2 1/2 1/2 3/4 3/4 3/4	43.0 @ 32 ft. 43.0 @ 32 ft. 43.0 @ 32 ft. 43.0 @ 32 ft. 43.0 @ 30 ft. 43.0 @ 30 ft. 43.0 @ 30 ft.	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P711 ⁽⁶⁾ P711Z P711Z-3PH P711-460/3PH P711Z50-3PH P711-380/3PH	115/50-60/1 230/50-60/1 230/60/3 460/60/3 220/50/3 380/50/3	16.0 8.0 4.2 2.1 4.4 2.5	N N Y Y Y Y	1	54.0 @ 42 ft. 54.0 @ 42 ft. 54.0 @ 42 ft. 54.0 @ 42 ft. 54.0 @ 44 ft. 54.0 @ 44 ft.	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711Z 1.5HP P711Z50 1.5HP	230/60/1 220/50/1	10.0 10.5	N N	1.5	60.0 @ 45 ft.	240,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	49/22

¹ Electrical and mechanical specifications for 50-60Hz pumps are rated at 60Hz. Operating a 50-60Hz pump at 50Hz will reduce the pump head by 30% and the GPM by 17%. Do not operate 60Hz only pumps at 50Hz.

² Ignition protected.

³ GPM flow is rated at indicated pump head.

⁴ Head calculation required for system is dependent on number and size of unit(s), length of hose, use of 90° elbows and the height of the unit(s) above the pump. Please refer to the Marine Air Systems' pump sizing guide or consult the Applications department.

⁵ Capacities given are determined using an average of 3 GPM per ton (12,000 BTU/HR) at given GPM and head, and are rated for direct expansion (DX) AC systems only.

⁶ Contact the applications department for pumps larger than P711.

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Environmentally
Responsible

Dealer:

Pilot-House Defroster

Individual Ducts for Each Pane of Glass



PHDCM1.5 shown

The Defroster is designed to remove any moisture or condensation that may form on the inside of a windshield.

In order to accommodate the wide range of styles and number of glass areas in yachts, the Defroster incorporates individual ducts dedicated to each pane so that all surface areas are treated.

This unit will operate in two modes: fan only supplies ambient cabin air to the windshield for those times when simple ventilation is desired; and fan with thermostatically controlled electric heat that takes cabin air and raises the temperature through the use of finned heating elements mounted in the Defroster chamber.

The unit is typically mounted under the coaming area of the pilot house.

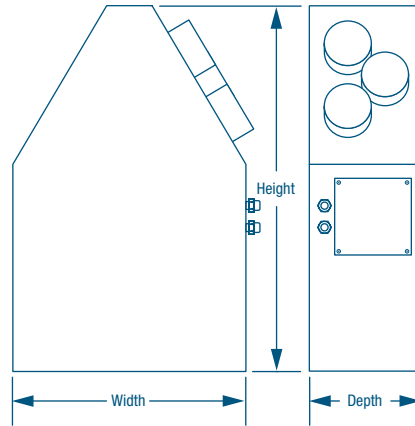
Key Benefits

- Custom configuration for up to six duct ring outlets
- May be mounted horizontally, vertically, flat or on edge
- Fan-with-heat or fan-only modes
- Lightweight marine-grade aluminum construction
- Tapered duct housing permits easy mounting and installation of ducting
- Slimline style fits easily in overhead applications or under pilot-house coaming area
- Two-part epoxy polyurethane paint resists chipping and corrosion
- Replaceable filter assembly
- Quiet and efficient squirrel cage fan for long service life
- Meets or exceeds applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration (ARI) standards

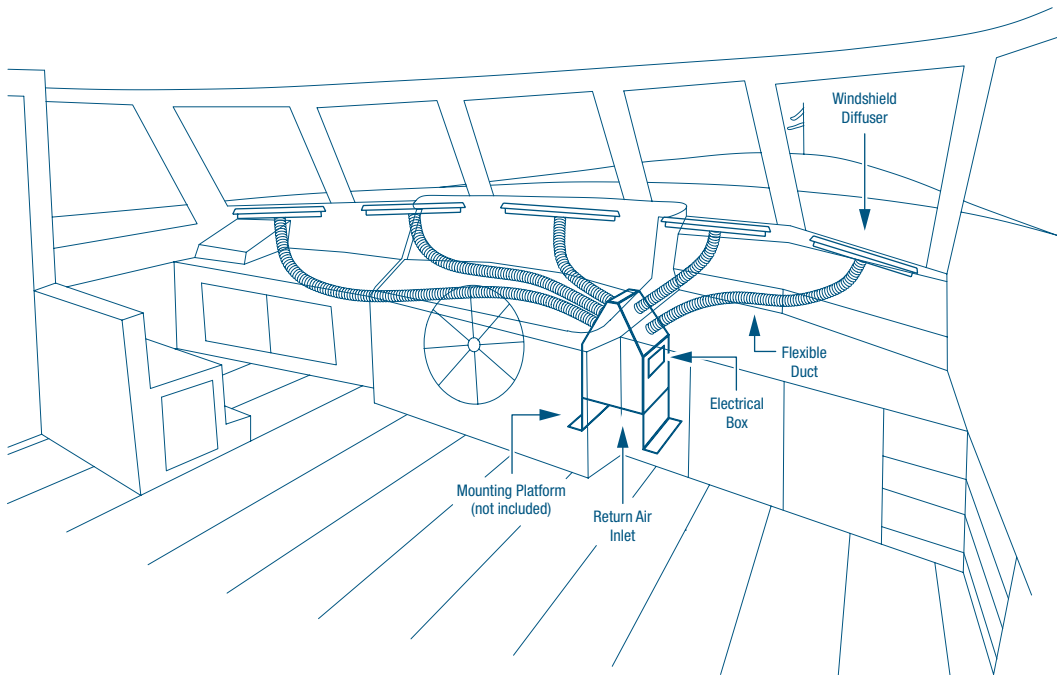
Technical Specifications for Pilot-House Defroster

MODEL	PHDCM1.5
Capacity ⁽¹⁾ – Fan (CFM)	305
Capacity ⁽¹⁾ – Heat (BTU/hr)	5,120
Voltage (VAC)	230
Full Load Amps (FLA) – Fan	0.83
Full Load Amps (FLA) – Heat	6.50
Kilo-Volt-Amps (KVA)	1.69
Max. Circuit Breaker	10.00
Min. Circuit Ampacity	9.00
Width (in/mm)	18.00/457
Height (in/mm)	9.50/241
Length (in/mm)	29.13/714
Net Weight (lb/kg)	23.0/10.4
Ship Weight (lb/kg)	28.0/12.7

¹ Ratings at 60Hz. 50Hz operation will be diminished by 17%.



Typical Installation



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Environmentally
Responsible

Dealer:

Variable Frequency Drives

Smooths Out Chilled Water Compressor Startup Power Demand



VFD SQD312

A Variable Frequency Drive (VFD) completely eliminates the large starting inrush current of the compressor by ramping up voltage and frequency in a controlled time period. This allows running on limited dockside power, and also protects the generator from overload.

In addition to eliminating inrush, the VFD will also run a 60Hz rated compressor at 60Hz even when input power is 50Hz, which allows full BTU capacity performance (230V only). The drive also protects the compressor by monitoring input voltage and output current, and will shut down if a problem is detected. On 208/230V systems, the VFD can “convert” single-phase input power to 3-phase output; however, the VFD current capacity must be derated (see table on second page).

The VFD unit produces a modified sine wave output for smooth acceleration and running, with precise frequency resolution. It is designed to operate in extreme environments, such as an engine room. However, the enclosure is ventilated, and must be kept dry. Any direct water contact can damage the unit.

Built-in noise filters are standard and the VFD is CE approved. The Schneider Electric Altivar 312 VFDs incorporate a class A EMC filter into their design. This helps prevent high frequency noise from affecting the AC power supply to which the drives are connected. If you have an application or a power system that requires even lower noise emission, then we recommend you purchase the class B EMC filters specifically designed to fit with the entire family of Altivar 312 VFDs. To reduce the harmonic distortion caused by the VFD, we recommend you purchase a line reactor sized appropriately for the particular VFD.

An LED display allows the user to monitor operation and faults. The VFD is pre-programmed from the factory and no further setup is required. Power cables are available through special order.

How to choose the right size Variable Frequency Drive:

- Chiller compressor must be 3 phase and each compressor requires a dedicated VFD.
- Multiply the chiller's reverse cycle amps by 1.10 (10% safety factor).
- Choose the VFD from the Comp Voltage and Max AMP Rating columns (in the table on the following page) depending on compressor voltage and the phase of the input power supply, respectively.

Key Benefits

- Eliminates compressor start-up in-rush current
- 208/230V three-phase output with one- or three-phase input
- Full 60Hz capacity even at 50Hz input (230V only)
- Low electronic noise
- CE approved
- 380/480V three-phase models available

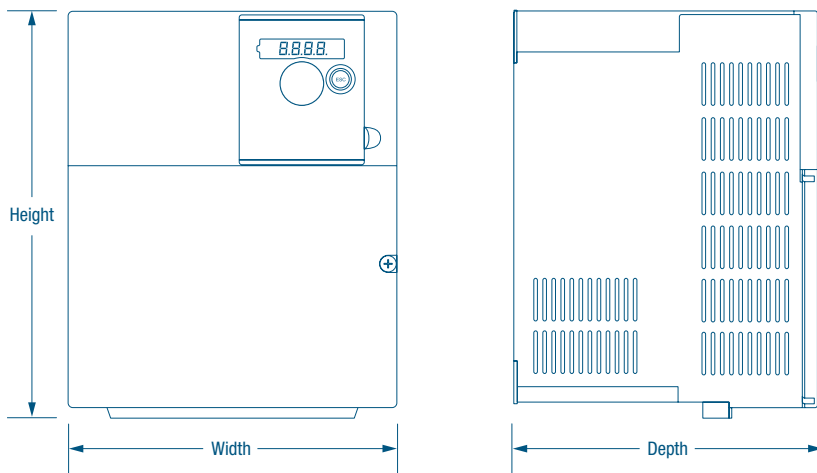
Technical Specifications for Variable Frequency Drives

MODEL	REFERENCE NUMBER	COMP VOLTAGE	MAX AMP RATING 3PH INPUT	MAX AMP RATING 1PH INPUT	HEIGHT (IN/MM)	WIDTH (IN/MM)	DEPTH (IN/MM)	WEIGHT (LB/KG)
VFD SQD17.5A230V	4251104	208-230V ⁽¹⁾	17.5	10.1	7.2/184	5.5/140	5.9/150	5.2/2.4
VFD SQD27.5A230V	4251105	208-230V ⁽¹⁾	27.5	15.9	9.1/232	7.1/180	6.7/170	10.4/4.7
VFD SQD33A230V	4251106	208-230V ⁽¹⁾	33.0	19.1	9.1/232	7.1/180	6.7/170	10.4/4.7
VFD SQD54A230V	4251110	208-230V ⁽¹⁾	54.0	31.2	13.0/330	9.7/245	7.5/190	19.9/9.0
VFD SQD66A230V	4251111	208-230V ⁽¹⁾	66.0	38.1	13.0/330	9.7/245	7.5/190	19.9/9.0
VFD SQD9.5A460V	4251108	380-460V ⁽²⁾	9.5	N/A	7.2/184	5.5/14	5.9/150	5.2/2.4
VFD SQD13.4A460V	4251112	380-460V ⁽²⁾	14.3	N/A	9.1/232	7.1/180	6.7/170	10.4/4.7
VFD SQD17A460V	4251202	380-460V ⁽²⁾	17.0	N/A	9.1/232	7.1/180	6.7/170	10.4/4.7
VFD SQD27.7A460V	4251109	380-460V ⁽²⁾	27.7	N/A	13.0/330	9.7/245	7.5/190	19.9/9.0
VFD SQD33A460V	4251201	380-460V ⁽²⁾	33.0	N/A	13.0/330	9.7/245	7.5/190	19.9/9.0

¹ 208-230V VFDs will produce a 60Hz output even with 50Hz input. This allows 60Hz compressors to produce full BTU capacity in 50Hz systems.

² High voltage (380-480V) VFDs can be used at 380-420V 50Hz, or 440-480V 60Hz. At these higher voltages the VFD output frequency should be the same as the input.

For programmed VFDs, please call your sales representative with the reference number and programming information (output voltage, input phase, and output frequency).



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Environmentally
Responsible

Dealer:

Pump Packages for Chilled Water Air Conditioning

Convenient Solutions for Simpler Installations



P700 Centrifugal
Pump Package

Pump packages reduce the installation time of chilled water systems by combining several necessary components in one convenient package. The packages include a chilled-water pump, expansion tank, pump drain pan, dual-scale (psi/kPa) pressure gauge, and fill assembly. The fill assembly includes a hose connection, ball valve, and pressure-reducing valve.

The cushion of air in the expansion tank allows the water to expand and contract with temperature fluctuations. This relieves pressure that might otherwise result in leaks.

The latest design includes a bladder-style expansion tank. Without the bladder, air in the expansion tank would gradually dissolve into the water and be bled off. Eventually, the protective cushion of air would be gone.

The pressure gauge is connected to an inlet pipe on the pump for the most accurate reading of system return water pressure.

Key Benefits

- Convenient packaging of multiple essential components simplifies installation
- Expansion tank protects against thermal expansion
- Bladder-style expansion tank protects against loss of air cushion
- Dual-scale pressure gauge is convenient for US and international customers
- Pressure gauge connected to inlet pipe gives most accurate reading

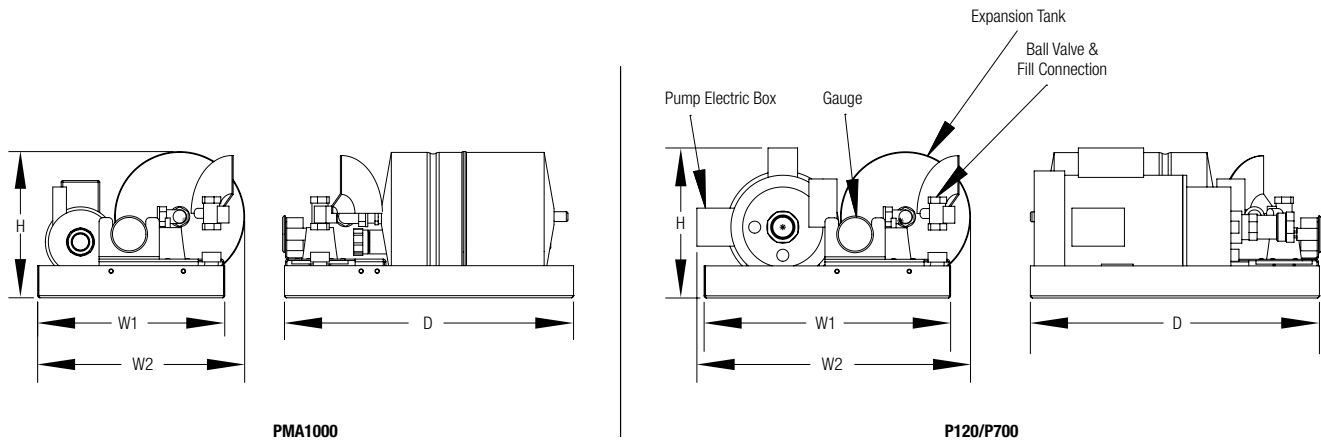
Technical Specifications for Pump Packages

MODEL	PMA1000	PMA1000C	PMA1000CK	P120	P120Z	230/60/1	P700	P700Z	230/60/1
Voltage (V/Hz/Phase)	115/60/1	230/60/1	240/50/1	115/60/1	230/50/1	230/60/1	115/60/1	230/50/1	230/60/1
Amps (FLA)	2.1	1.0	1.1	4.9	3.5	3.5	7.2	3.6	3.6
Recommended Applications: Total Air Handler Capacity (BTU/hr)	16-23	16-23	16	24-48	17-23	24-48	49-120	24-84	49-120
Height (in/mm)	9.2/233	9.2/233	9.2/233	9.2/233	9.5/241	9.5/241	9.5/241	9.5/241	9.5/241
Pan Width, W1 (in/mm)	11.7/297	11.7/297	11.7/297	11.7/297	15.4/391	15.4/391	15.4/391	15.4/391	15.4/391
Overall Width, W2 (in/mm)	12.9/327	12.9/327	12.9/327	12.9/327	17.1/434	17.1/434	17.1/434	17.1/434	17.1/434
Depth, D (in/mm)	18/457	18/457	18/457	18/457	18/457	18/457	18/457	18/457	18/457
Chilled Water "in" connections, female NPT	1 in. female	1 in. female	1 in. female	1.25 in. female	1.25 in. female	1.25 in. female	1.25 in. female	1.25 in. female	1.25 in. female
Chilled Water "out" connections, NPT	1/2 in. male	1/2 in. male	1/2 in. male	1 in. female	1 in. female	1 in. female	1 in. female	1 in. female	1 in. female
Net Weight, (lbs/kg)	33/14	33/14	33/14	48/21	48/21	48/21	49/22	49/22	49/22
Gross Weight, (lbs/kg)	47/21	47/21	47/21	62/28	62/28	62/28	62/28	62/28	62/28

† All dimensions ± 0.125 in.

Safety note:

Pump packages do NOT include backflow preventers. If the chilled-water fill assembly might be supplied by a potable water supply, then a reduced pressure zone (RPZ) backflow preventer should be installed between the fill assembly and the potable water supply to prevent contamination of the potable water.



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Environmentally
Responsible

Dealer:

Supply and Return Air Grilles

Aluminum, Plastic, and Wood-Frame Styles



Assorted aluminum, wood, and plastic grilles shown

Marine Air supply and return air grilles are available in a wide assortment of dimensions, styles, and materials to blend with any yacht's interior.

The vanes of supply grilles are secured in nylon bushings for easy dependable positioning. RA-type return air grilles have one row of fixed vanes. Wood return air grilles have a lint screen which can be removed for cleaning.

Round plastic supply grilles are also offered in several colors with and without shut-off dampers.

Micro-Particle Anti-Allergenic air filters, designed to capture diesel smoke, dust, lint, bilge odors, and pet dander, are available for Marine Air A/C systems. These filters mount to the unit's evaporator coil and are eight times more efficient than standard filters. Due to the high efficiency of these new filters, they should be inspected and replaced at frequent intervals. When using a filter on the unit, do not also have a filter on the grille, as that would cause too much restriction of the airflow.

Key Benefits

- Large selection and variety of grilles
- Standard and custom materials complement all yacht interiors.
- Custom sizes available for any application.

Wood-Frame Grilles

- Pop-out louver panels with return air grilles have easy to clean replaceable filters.
- Supply air grilles have double-deflection, moveable louvers available in anodized bronze or aluminum finish.

Aluminum-Frame Grilles

- Supply air grilles have adjustable louvers to direct air flow.
- Return air grilles feature durable, fixed-vane louvers.
- Return air grilles are supplied with or without filters depending on system requirements.
- Painted grilles are sprayed with polyurethane.
- Multiple color selection.

Grille Sizing Per Unit

UNIT CAPACITY IN BTU/HR	RETURN AIR GRILLE (SQ. IN)	RETURN AIR GRILLE (SQ. CM)	SUPPLY AIR GRILLE (SQ. IN)	SUPPLY AIR GRILLE (SQ. CM)
4,000	64	412.9	32	206.5
5,000	64	412.9	32	206.5
6,000	70	451.6	35	225.8
7,000	80	516.2	45	290.3
9,000	98	632.3	49	316.1
10,000	100	645.2	60	387.1
12,000	130	838.8	70	451.6
16,000	160	1032.3	80	516.2
18,000	200	1290.4	100	645.2
24,000	240	1548.5	140	903.3
30,000	350	2258.2	170	1096.8
36,000	360	2322.7	196	1264.6
48,000	480	3097.0	256	1651.7

- Supply and Return Air Grille minimums are required to achieve rated capacity.
- Custom sizes and custom painted grilles are available. Contact Marine Air for pricing and availability.

Product Characteristics

Wood Frame Grilles

- Cut-out dimensions are the nominal grille size, i.e., a 10 x 5 in. VH requires a 10 x 5 in. (254 x 127 mm) cut out.
- Outside frame dimensions are 0.9375 in. ± 0.0625 in. (24 mm ± 16 mm) larger than nominal grille size, i.e., a 10 x 5 in. VH has overall dimensions of 10.9375 x 5.9375 in. (278 x 151 mm).
- Depth of grilles: VH is 1.375 in. (35 mm), VML is 1.875 in. (48 mm), RA is 0.875 in. (22 mm), measured from back of frame.
- Frame (flange) dimensions are 0.563 in. (14 mm) on all sides.

Aluminum Grilles

- Cut-out dimensions for the TH, TV, and TRA style grilles are 0.375 in. (10 mm) smaller than the nominal grille size, i.e., a 10 x 5 in. TH requires a 9.625 x 4.625 in. (244 x 117 mm) cut-out. The TRAF style grilles are 0.125 in. (3 mm) smaller.
- Outside frame dimensions are 0.875 in. (22 mm) larger than the nominal grille size, i.e., a 10 x 5 in. TH has overall dimensions of 10.875 x 5.875 in. (276 x 149 mm).
- Depth of grilles: TH and TRA are 0.875 in. (22 mm), TRAF is 1 in. (25 mm), measured from back of frame.
- Frame (flange) dimension is 0.625 in. (16 mm) on all sides.

Plastic Grilles (Circular)

- Depth of grilles: 2SA is 1.31 in. (33 mm), 3SA is 2.16 in. (55 mm), 4SA is 2.38 in. (60 mm), measured from back of frame.
- Frame (flange) dimensions: 2SA is 2.75 in. (70 mm), 3SA is 3.875 in. (98 mm), 4SA is 5.50 in. (140 mm), in diameter.
- Cut-out dimensions are 2.0 in. (52 mm), 3.0 in. (76 mm), and 4.0 in. (102 mm) respectively, in diameter. A special adapter is available to use the 4SA with 3.0 in. (76 mm) ducting.

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Environmentally
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Grille Dimensions

WOOD FRAME GRILLES			
Supply Air, Primary		Supply Air, Secondary Closeable	
Model VH		Model VML	
7 X 7 in.	10 X 5 in.	12 X 5 in.	14 X 4 in.
14 X 5 in.	14 X 6 in.	16 X 4 in.	
SUPPLY AIR, SECONDARY		RETURN AIR WITH FILTER	
Model VH		Model RA	
4 X 4 in.	6 X 4 in.	8 X 4 in.	10 X 4 in.
10 X 4 in.	12 X 4 in.	7 X 7 in.	8 X 8 in.
		8 X 10 in.	11 X 8 in.
		12 X 12 in.	12 X 12 in.
		12 X 14 in.	14 X 7 in.
		14 X 10 in.	14 X 10 in.
		14 X 12 in.	14 X 12 in.
		16 X 9 in.	16 X 9 in.
PLASTIC GRILLES (ROUND AND CLOSEABLE SUPPLY AIR GRILLES)			
Model	2SA	3SA	4SA
Duct Size	2 in.	3 in.	4 in.
ALUMINUM GRILLES			
Supply Air		Return Air	
Model TH	Model TV	Model TRAF (with Filter); Model TRA (without Filter)	
4 X 4 in.	10 X 4 in.	8 X 11 in.	14 X 7 in.
7 X 7 in.	12 X 3 in.	10 X 4 in.	14 X 10 in.
8 X 4 in.	12 X 4 in.	11 X 7 in.	14 X 12 in.
10 X 4 in.	12 X 5 in.	11 X 8 in.	16 X 9 in.
10 X 5 in.	12 X 6 in.	11 X 12 in.	20 X 5 in.
	14 X 4 in.	12 X 12 in.	22 X 7 in.
	14 X 5 in.		28 X 6 in.
	14 X 6 in.		
	14 X 7 in.		
	16 X 4 in.		
	18 X 3 in.		
	20 X 5 in.		
	24 X 3 in.		

- Multiply the dimensions above by 2.54 to calculate for centimeters.

Dealer:

Ducting and Transition Boxes

Full Range of Diameters and Lengths Available



Vacuum-Formed (VF) Transitions:

- Opening dimensions are 0.375 in. (0.95 cm) larger than transition size (i.e., 10 X 5 in. VF has a 10.375 X 5.375 in. opening. 25.4 X 12.7 cm VF has a 26.4 X 13.7 cm opening).
- Flange to flange dimensions are 1.5 in. (3.8 cm) larger than transition size (i.e., 10 X 5 in. VF = 11.5 X 6.5 in. flange to flange. 25.4 X 12.7 cm VF = 29.2 X 16.5 cm flange to flange).
- Depth of 4x VF models is 4.0 in. (10.2 cm) (measured from back of flange).
- Depth of 5x and 6x VF models i.e., either 4.5 in. (11.4 cm) or 5.75 in. (14.6 cm) depending on use of round or obround rings.
- Flange dimensions are 0.5625 in. (1.43 cm) on all sides.

Square Vacuum-Formed Transitions:

- Available in 5.25 in. and 6.25 in. (13.34 cm and 15.88 cm) square VF transition boxes.
- Opening dimensions are 0.5 in. (1.27 cm) larger than transition size.
- Flange to flange dimensions are 1.75 in. (4.4 cm) larger than transition size.
- Depth is 0.125 in. (0.32 cm) longer than the transition size.
- Flange dimensions are 0.625 in. (1.59 cm) on all sides.

Vacuum Formed T-Boxes:

- Height of 10,000, 12,000 and 16,000 T-box with mounting flange is 7.875 in. (20.0 cm).
- Height of 7,000 T-box with mounting flange is 6.875 in. (17.5 cm).
- The 10,000, 12,000 and 16,000 T-boxes accommodate 6 in., 5 in. and 4 in. duct rings on one side and 5 in., 4 in. and 3 in. duct rings on the other side (15.2 cm, 12.7 cm, 10.2 cm and 12.7 cm, 10.2 cm, 7.6 cm respectively).
- The 7,000 T-box accommodates 5 in. and 4 in. duct rings on one side and 4 in. and 3 in. duct rings on the other side (12.7 cm, 10.2 cm and 10.2 cm, 7.6 cm respectively).

Key Benefits of Ducting

- Two types of ducting available: round/wire with woven fabric and round/wire and mylar fabric shell with 1.0 in. (2.6 cm) wall thickness insulation.
- Full range of diameters and lengths.
- All ducting attaches easily to associated rings.

Key Benefits of Transition Boxes

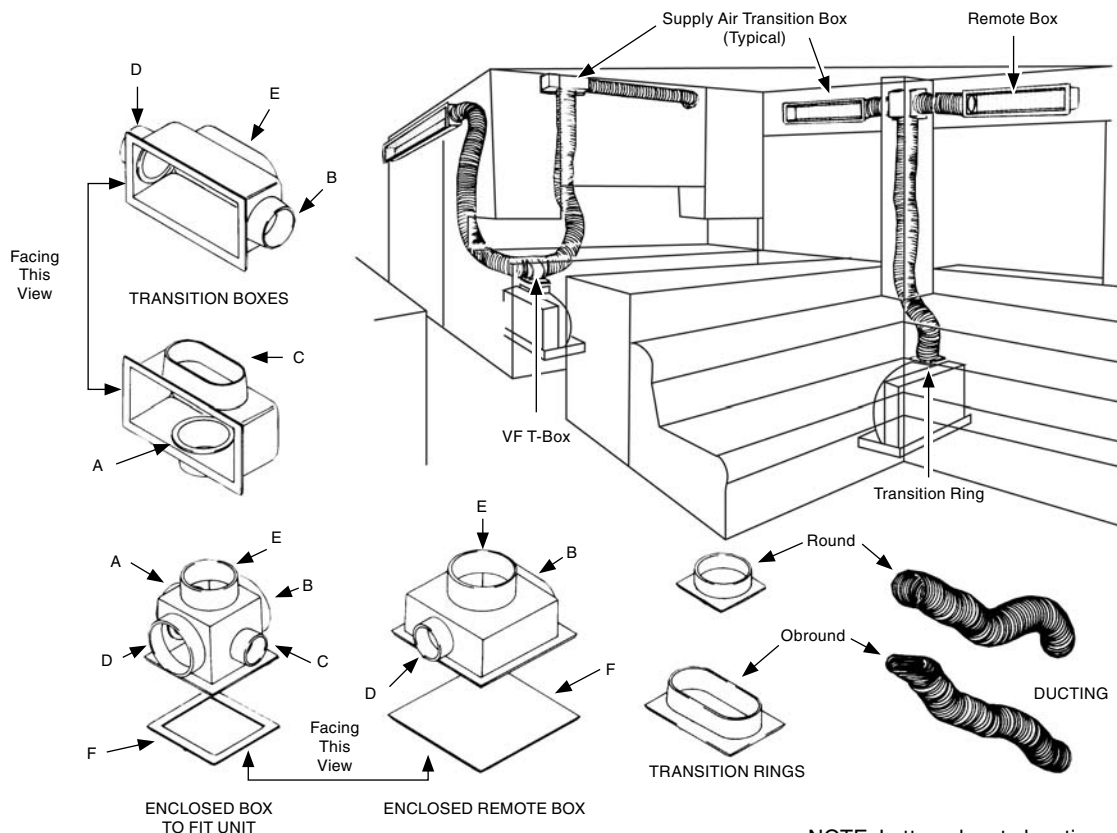
- Large selection and variety available in aluminum and ABS plastic.
- Air flow designed and tested components.
- Matched to Marine Air's grilles and blowers.
- Non-restrictive air flow.
- All rings designed for close tolerance fit with ducting.
- Perimeter flanges on all boxes for mounting ease.
- Aluminum transitions and boxes are fully insulated, available in standard and custom sizes, and are ideal for applications where space is limited.
- Versatile ABS plastic transitions and boxes feature off-the-shelf availability and are vacuum formed for consistent quality.
- ABS plastic T-boxes have insulated mounting pads, unique stepped ring design for flexibility, and feature off-the-shelf availability.

Aluminum (AL) Transitions:

- Opening dimensions are 0.25 in. (0.64 cm) larger than transition size (i.e., 10 X 5 in. AL has a 10.25 X 5.25 in. opening. 25.4 X 12.7 cm AL has a 26.0 X 13.3 cm opening).
- Flange to flange dimensions are 1.75 in. (4.4 cm) larger than transition size (i.e., 10 X 5 in. AL = 11.75 X 6.75 in.. 25.4 X 12.7 cm AL = 29.8 X 17.1 cm).
- Depth of AL transition box is 0.25 in. (0.64 cm) longer than the diameter of largest round ring (measured from back of flange).
- Flange dimensions are 0.75 in. (1.9 cm) on all sides.

Oround Rings Dimensions:

- 3 in. OB = 3.875 X 1.625 in. (9.84 X 4.13 cm)
- 4 in. OB = 5.125 X 2.250 in. (13.02 X 5.72 cm)
- 5 in. OB = 6.500 X 2.625 in. (16.51 X 6.67 cm)
- 6 in. OB = 7.438 X 3.375 in. (18.89 X 8.57 cm)
- 7 in. OB = 9.000 X 3.625 in. (22.86 X 9.21 cm)
- 8 in. OB = 9.250 X 5.000 in. (23.50 X 12.70 cm)
- All oround rings are made of ABS plastic, except the 8 in. OB which is made of aluminum. Add 0.25 in. (0.64 cm) to oround dimensions for minimum box size. All rings are 2.0 in. (5.1 cm) deep.

Typical Installation

NOTE: Letters denote location of rings when ordering boxes. See order form found in L-2163 Marine Air DX price schedule.

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Environmentally
Responsible

Dealer:

EnviroComfort R-417A Air Conditioning Kits

Climate Control At the Touch Of a Button



Dometic EnviroComfort
15,000 BTU/hr Kit

Enjoy ideal temperatures in your boating environment year-round with Dometic's EnviroComfort air conditioning systems. We offer a wide range of capacities from 5,000 to 15,000 BTU/hr, so you can size the system to suit your boat for ultimate cooling and heating comfort. All EnviroComfort models use R-417A refrigerant, an environmentally safe gas.

The EnviroComfort kit includes everything needed for a professional installation on boats with or without an existing air conditioning system.

EnviroComfort units use high-velocity blowers that eliminate blower-motor overhang for a smaller installation footprint. For flexibility in connecting to ductwork, the blower is rotatable to either a horizontal or vertical position. The compact, space-saving design is contained in a stainless-steel drain pan, and the pre-installed return-air filter is easily removable and cleanable.

For system operation, EnviroComfort kits include a compact Dometic digital-display control. For added installation convenience, the plastic electrical box can be mounted remotely.



For applications requiring an additional air outlet, the dual duct kit (shown at left) is available for 6.5K to 15K BTU/hr EnviroComfort models.

Key Benefits

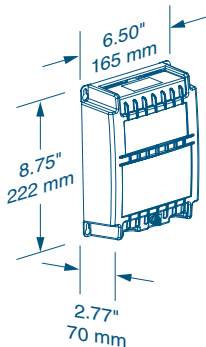
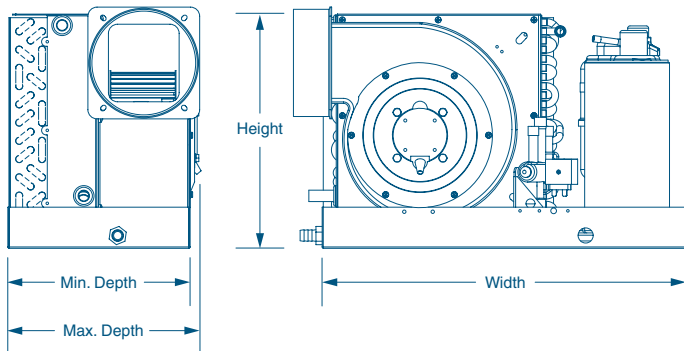
- Cools and heats
- Available in 50Hz and 60Hz models
- High velocity, rotatable blower for horizontal or vertical installation
- Environmentally safe R-417A refrigerant
- Compact Dometic digital-display control
- Plastic remote electrical box for convenience in mounting
- Stainless-steel drain pan
- Pre-installed return-air filter, easily removable and cleanable
- Small, compact, space-saving design
- Complete kit - All pieces, parts, and pumps (from seawater intake to supply-air grille)
- Models available in 5,000, 6,500, 9,000, 11,000, and 15,000 BTU/hr capacities
- Optional dual-duct kit for 6,500 - 15,000 BTU/hr models

Technical Specifications for Dometic EnviroComfort Air Conditioners

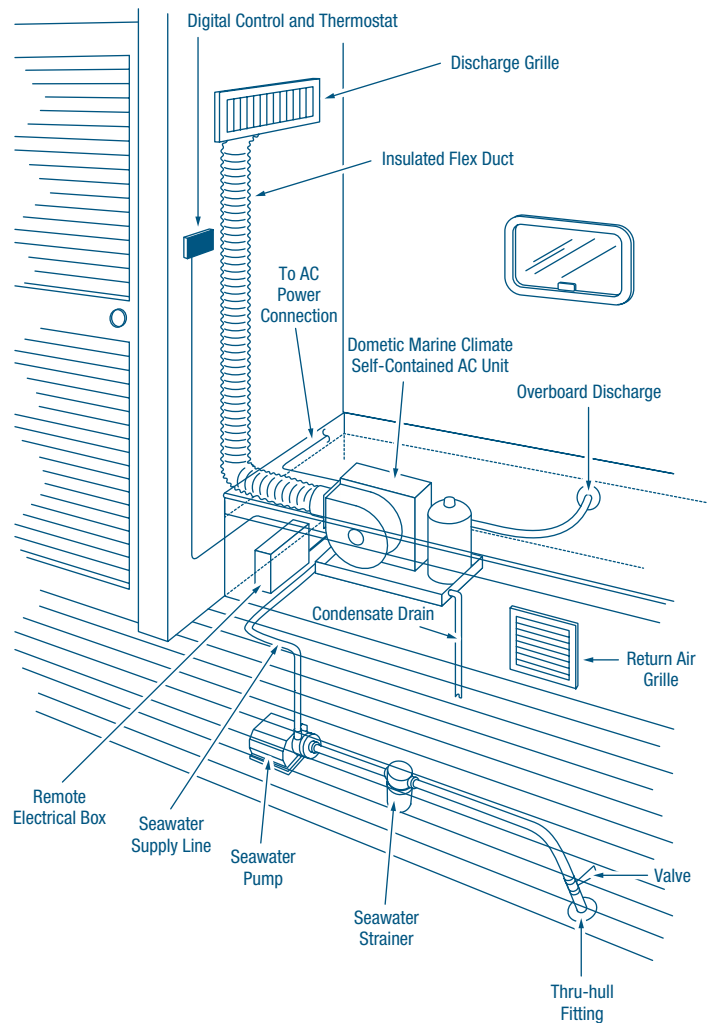
MODEL	ECD05		ECD06.5		ECD09		ECD11		ECD15	
Capacity (BTU/hr)	5,000		6,500		9,000		11,000		15,000	
Power (Volt/Hz/Ph)	115/60/1	220/50/1	115/60/1	115/60/1	115/60/1	115/60/1	220/50/1	220/50/1	115/60/1	220/50/1
Full Load Amps - Cool	3.8	2.2	5.4	5.4	6.3	6.3	6.8	3.7	10.0	4.5
Full Load Amps - Heat	5.0	2.9	7.0	7.0	8.6	8.6	9.4	4.7	13.0	5.8
Locked Rotor Amperage	29.0	11.0	40.0	40.0	49.0	49.0	53.0	22.2	67.0	32.0
Refrigerant type	R-417A		R-417A		R-417A		R-417A		R-417A	
Control type	Dometic Digital		Dometic Digital		Dometic Digital		Dometic Digital		Dometic Digital	
Height (in/mm) ⁽¹⁾	11.75/298		11.75/298		13.50/343		13.50/343		13.50/343	
Width (in/mm)	9.50/241		9.50/241		9.75/248		9.75/248		11.00/279	
Depth (in/mm)	17.75/451		19.75/502		21.75/552		21.75/552		21.75/552	
Sea Water Connection (in/mm)	0.63/16		0.63/16		0.63/16		0.63/16		0.63/16	
Net weight (lbs/kg) ⁽²⁾	39.0/17.7		44.0/19.6		58.0/26.3		57.0/25.9		64.0/29.0	

¹ Dimensions ± 0.5 in. (13 mm).

² Weights listed are for ECD units only and do not include kit components.



Dimensions for remote-mountable electrical box for all ECD models.



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Environmentally Responsible

Dealer:

EnviroCool R-417A Air Conditioning Kits

Climate Control At the Touch Of a Button



Dometic EnviroCool
5,000 BTU/hr Kit

Enjoy ideal temperatures in your boating environment with Dometic's EnviroCool Series of cooling-only marine air conditioning kits. The EnviroCool Series offers a wide range of BTU capacities from 3,500 to 15,000 BTU/hr to allow you to size your system for ultimate cooling. The EnviroCool series uses environmentally safe R-134A (3.5K BTU/hr model) and R-417A (5K - 15K BTU/hr models) refrigerants.

The EnviroCool kit includes everything needed for a professional installation on boats with or without an air conditioning system.

EnviroCool units use a high-velocity blower with internal motor for reduced unit depth. For flexibility in connecting to ductwork, the blower is rotatable to either a horizontal or vertical position. The compact, space-saving design is contained in a stainless-steel drain pan, and the pre-installed return-air filter is easily removable and cleanable.

For system operation, EnviroCool uses a two-knob mechanical switch for reliable control over air conditioner functions.



For applications requiring an additional air outlet, the dual duct kit (shown at left) is available for 6.5K to 15K BTU/hr EnviroCool models.

Key Benefits

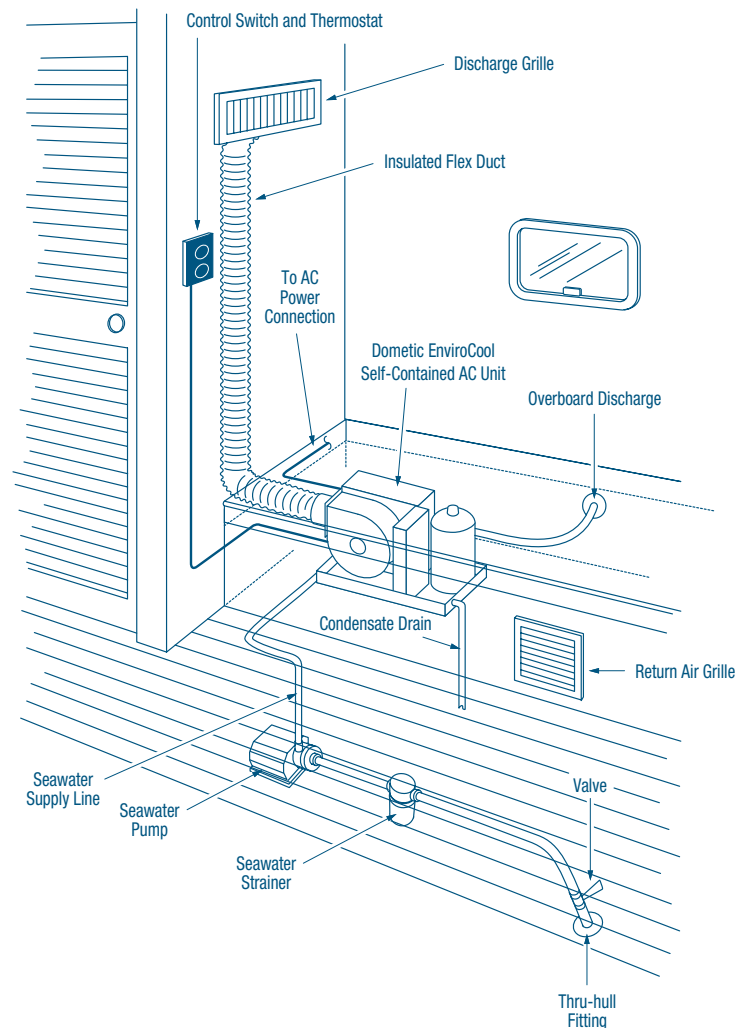
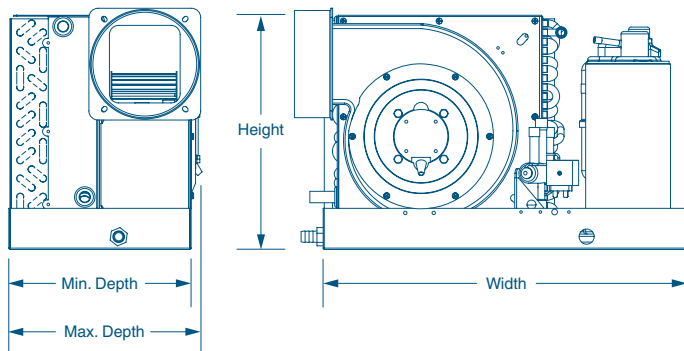
- Cool-only air conditioning systems
- Available in 50Hz and 60Hz models
- High velocity, rotatable blower for horizontal or vertical installation
- Environmentally safe R-417A refrigerant
- Two-knob mechanical controls
- Plastic remote electrical box for convenience in mounting
- Stainless-steel drain pan
- Pre-installed return-air filter, easily removable and cleanable
- Small, compact, space-saving design
- Complete kit - All pieces, parts, and pumps (from seawater intake to supply-air grille)
- Models available in 5,000, 6,500, 9,000, 11,000, and 15,000 BTU/hr capacities
- Optional dual-duct kit for 6,500 - 15,000 BTU/hr models

Technical Specifications for Dometic EnviroCool Air Conditioners

MODEL	ECM03.5	ECM05	ECM06.5	ECM09	ECM11	ECM15			
Capacity (BTU/hr)	3,500	5,000	6,500	9,000	11,000	15,000			
Power (Volt/Hz/Ph)	115/60/1	115/60/1	220/50/1	115/60/1	115/60/1	220/50/1			
Full Load Amps - Cool	4.3	3.8	2.2	5.4	6.3	3.7	9.4	4.5	
Locked Rotor Amperage	14.0	29.0	11.0	40.0	49.0	53.0	22.2	59.0	32.0
Refrigerant type	R-134A	R-417A	R-417A	R-417A	R-417A	R-417A			
Control type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical			
Height (in/mm)	9.50/241	11.75/298	11.75/298	13.50/343	13.50/343	13.50/343			
Width (in/mm)	9.75/248	9.50/241	9.50/241	9.75/248	9.75/248	11.00/279			
Depth (in/mm)	17.75/451	17.75/451	19.75/502	21.75/552	21.75/552	21.75/552			
Sea Water Connection (in/mm)	0.63/16	0.63/16	0.63/16	0.63/16	0.63/16	0.63/16			
Net weight (lbs/kg) ⁽²⁾	25.0/11.3	39.0/17.7	45.0/20.4	54.0/24.5	54.0/24.5	60.0/27.2			
Ship weight (lbs/kg)	32.0/14.5	50.0/22.7	TBD	TBD	TBD	72.0/32.7			

¹ Dimensions ± 0.5 in. (13 mm).

² Weights listed are for ECM units only and do not include kit components.



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Dealer:

DuraSea Series Air-Cooled Condensing Units

The Only Marinized Air-Cooled Condensers

Now
With R-410A



Dometic DuraSea air conditioning condensing units are designed for maximum durability and corrosion resistance in the harshest of nautical applications. These rugged units offer long service life, exceptional performance, energy conservation, and reliability.

The DuraSea's cabinet is constructed of stainless-steel 304, which resists heavy salt-spray and also provides UV protection. The cabinet lid is sloped toward all four sides for fast drainage and elimination of surface puddling. The vertically mounted fan minimizes prolonged contact with salt spray. The fan blades are made of a composite material to eliminate rusting.

Designed for deck or rooftop mount, the optional stainless-steel risers elevate the unit above the mounting surface to provide excellent water drainage and protect the coil from debris and salt water. To further fortify the unit from severe marine conditions, corrosion-resistant stainless-steel fasteners are used, and all other external components have a protective coating. The control box and compressor are strategically located within the cabinet for easy service access and for extra protection against corrosion.

For maximum durability and resistance to salt damage, choose the copper tube/copper fin coil option. Corrosion coatings are also available for the copper coils for ultimate protection.

All DuraSea units employ scroll compressors. They reduce noise and vibration, and have a higher tolerance of liquid refrigerant and system contaminants. Scroll compressors also feature low start torque to minimize the starting-current spike that occurs with other compressors.



The DuraSea shown with the optional risers and service panel removed



Key Benefits

- Designed for decktop mounting on workboats and military vessels
- Built to withstand the harsh elements of the commercial marine environment
- Sloped cabinet lid eliminates puddling
- Operates with most evaporators
- Environmentally safe R-410A or R-417A refrigerant
- Hermetically-sealed scroll compressor with internal overload protection
- Permanently-lubricated condenser fan motor with VIP vacuum impregnated windings
- High-efficiency copper tube and aluminum fin coil with dipped coating that exceeds 1,000-hour salt spray test
- Copper tube/copper finned coils available for ultimate corrosion protection
- Composite fan blades will not rust
- Brass base valves with sweat connections and service ports
- Vertical fan mount design
- High-and low-pressure controls
- Heavy-duty contactor with lug connections
- Optional stainless-steel risers elevate the unit above the mounting surface to protect the coil from salt water and debris
- Environmentally safe R-417A DuraSea condensers available to replace R-22 condensing units

Technical Specifications for DuraSea Series R-410A Condensers

MODEL	DCA36D	DCA36E	DCA48D	DCA48E	DCA60D	DCA60E	DCA72D	DCA72E
Cooling Capacity (BTU/hr)	36,000	36,000	48,000	48,000	60,000	60,000	72,000	72,000
Voltage (VAC)(1)	208-230	460	208-230	460	208-230	460	208-230	460
Cycle (Hz)/Phase	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3
Full Load Amps (FLA) Cool	10.9	5.0	12.7	6.6	14.8	7.4	17.9	8.9
Locked Rotor Amps (LRA)	95.0	45.0	120.0	60.0	123.0	70.0	160.0	87.0
Air Flow (cfm)	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Full Load Amps (FLA) Motor	3.6	2.0	3.6	2.0	3.6	2.0	3.6	2.0
Min. Circuit Ampacity(2)	20	10	20	12	25	12	25	15
Max. Circuit Breaker (Amps)(3)	30	14	35	18	35	20	45	25
Min./Max. Volts	197/253	414/506	197/253	414/506	197/253	414/506	197/253	414/506
Refrigerant Charge (oz)	80	80	80	80	120	120	120	120
Refrigerant Line Connection - Discharge (in)(4)	0.375	0.375	0.375	0.375	.050	.050	.050	.050
Refrigerant Line Connection - Suction (in)(4)	0.750	0.750	0.875	0.875	0.875	0.875	0.875	0.875
Sound Level (dBA)(5)	84	84	84	84	84	84	84	84
Height (in/mm)(6)	38.5/978	38.5/978	38.5/978	38.5/978	38.5/978	38.5/978	38.5/978	38.5/978
Width (in/mm)	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838
Depth (in/mm)	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838	33.0/838
Net Weight (lbs/kg)(7)	290/131.5	290/131.5	310/140.6	310/140.6	365/165.6	365/165.6	375/170.1	375/170.1

² Also available in 380VAC/50Hz/3-phase on request.

³ Wire size should be determined in accordance with National Electric Codes. Extensive wire runs require larger wire sizes.

⁴ Must use time-delay fuses or HACR-type circuit breakers of the size as noted.

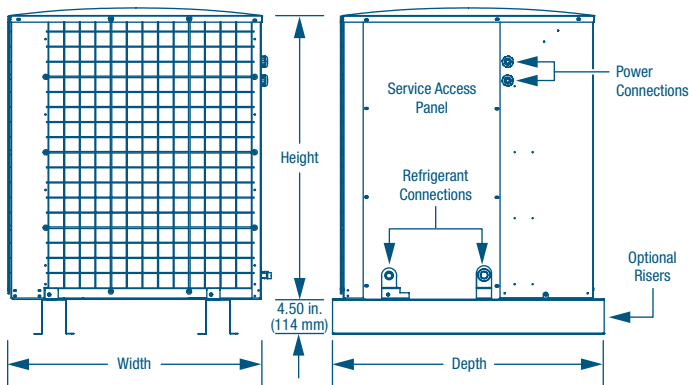
⁵ Up to 50 ft. (15.2 m) in equivalent line length.

⁶ Sound level measured 3 ft. (0.9 m) from unit.

⁷ Weight for aluminum fin condenser coil with coating.

⁸ Add 4.5 in. (114 mm) to height if optional risers are installed.

Dimensions



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Environmentally
Responsible

Dealer:

Radome Environmental Control Units

Keeps Sensitive Domed Electronics Cool



HSA16KCZ 417-A
shown

Safe navigation relies on your ship's radar and communications equipment, and as with all electronics, overheating leads to equipment failure. The Radome Environmental Control Unit (ECU) is specifically designed to work within the dome enclosure, ensuring optimum temperatures for the critical equipment inside.

As you would expect from the world leader in marine air conditioning technology, this air-cooled unit is built for at-sea conditions. Although small and lightweight to provide ease of installation and maintenance, the Radome ECU is designed to exceed the cooling requirements of pleasure boat, commercial vessel, and military ship applications. Rugged construction with corrosion-resistant materials allows the unit to be operated in the most extreme conditions at sea.

The Radome ECU's highly efficient yet powerful rotary compressor provides quieter operation, increased reliability, and reduced amperage. Its raised-lance fin and the rifled tubing design of the evaporator and condenser coils provide maximum capacity. Three configurations are offered: interior dome self-contained, remote ducted self-contained, and split-gas.

The Radome ECU is not limited to marine applications. It can also control the temperature and humidity levels of on-land locations such as electronics enclosures, telecommunications shelters, vaults, buildings, trailers, vans, and clean rooms.

Key Benefits

- Three configurations available
- Compact, lightweight, and easy to install
- Air-cooled - no plumbing required
- Durable corrosion-resistant coating
- Environmentally safe R-417A refrigerant
- R-22 units can be retrofitted to R-417A to comply with global environmental regulations
- Solid-state digital control provides reliable monitoring and control
- Control circuitry monitors and protects the unit
- High-efficiency rotary compressor is quiet and reliable
- Raised lance fin and rifled tubing for maximum capacity
- Charged, tested, and leak checked at the factory
- Charge Guard protection provides sealed access ports, ensuring environmental protection and chiller module integrity
- Meets or exceeds applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration (ARI) standards

Technical Specifications for Radome ECU Series

MODEL	HSA16K		
Capacity (BTU/hr)	16,000		
Voltage/Hz/Ph	115/50-60/1	230/60/1 ⁽¹⁾	220/50/1
Locked Rotor Amps (Comp)	67.0	29.0	32.0
K.V.A. (Kilo-Volt-Amps)	1.3	1.3	1.3
Max. Circuit Breaker (Amps)	40.0	20.0	20.0
Min. Circuit Ampacity	25.0	14.0	12.0
Refrigerant Charge Amount R-22 or R-417A (oz/g)	26/737		
Net Weight (lbs/kg)	95.0/43.1		
Gross Weight (lbs/kg)	130.0/59.0		

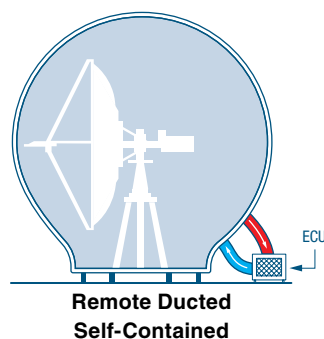
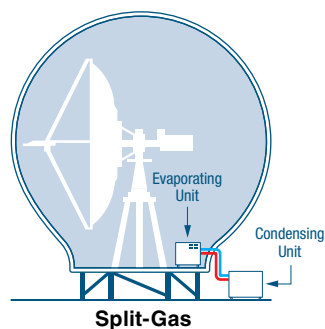
Dimensions

MODEL	SELF-CONTAINED	SPLIT CONDENSING UNIT	SPLIT EVAPORATING UNIT
Height (in/mm) ⁽²⁾	14.5/368	14.5/368	14.5/368
Width (in/mm)	18.0/457	18.0/457	18.0/457
Depth (in/mm)	30.0/762	17.5/445	12.7/323

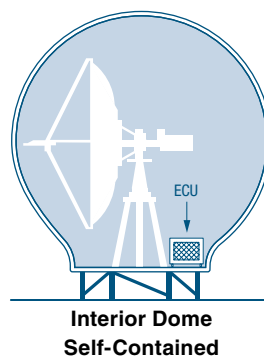
¹ Can also be operated at 200-220V/50Hz.

² Allow 1.5 in. (38 mm) for mounting brackets.

The Radome ECU is available in three configurations:



(Ideal for low pedestals)



(Exhaust kit is available
for low pedestal
applications to correct
condenser air short cycling)

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Dealer:

Eskimo Ice 600 Lbs./Day Fishbox Ice System

Designed for Serious Tournament Anglers

Available
In 50 or 60Hz



■ Keep your catch fresh all day.

EI600D-115 Self-Contained Model



Crushed ice—preferred by fishermen—cools more quickly and packs better. A Dometic Eskimo Ice system produces up to 600 pounds (272 kg) of crushed ice per day to keep even the largest catches fresh. Ice is generated within minutes after starting the unit, and makes up to 25 pounds (11.3 kg) of ice per hour under normal operating conditions.

The easy-to-install Eskimo Ice system is designed to be mounted below deck or in an engine room where it is protected from salt spray. The ice it produces can be pumped through hose lengths up to 30 ft. (9.1 meters) to nearly any desired location onboard, such as a fish box or cooler.

All self-contained and remote Eskimo Ice systems feature the Smart Logic Digital Display. A full menu of sensors and status lights monitor gas pressure, auger motor, compressor, water level, ice level, and ice clogs, and will shut off the system if problems are detected. The system automatically resets and restarts for certain key functions that can be triggered by extreme boat motion.

Available in either 60Hz or 50Hz versions. Digital-control retrofit kits are available.

The Eskimo Ice EI600D system includes: EI600D self-contained or split fishbox ice maker with condensate drain pan, 15 ft. (4.5 m) ice delivery hose and insulation, electronic ice-level control unit, fresh-water filter, and installation instructions.



The Smart Logic digital control (shown at left) features a bright LED and full menu of sensors and status lights to monitor gas pressure, auger motor, compressor, water level, ice level, and ice clogs.

The Eskimo Ice basic kit includes a split or self-contained EI600D, 15 ft. (4.5 m) of ice delivery hose and insulation, electronic ice-level control unit, fresh-water filter, and complete installation instructions.

Key Benefits

- Produces up to 600 lbs. of fishbox ice per day
- Available in 60Hz or 50Hz
- Self-contained and split models
- Up to two remotely-mounted Smart Logic digital controls/display panels
- Photo-electric ice-level sensor
- Start-time delay
- Fresh-water filter included
- Sensors monitor all system functions
- Manual reset to restart system from lock-out
- Improved fresh-water float switch
- Redesigned refrigerant meter for improved performance in cold water

Product Testimonial

"We recently installed an Eskimo Ice machine on the Big Oh and it provides us with professionally crushed ice to keep our bait and our fish fresh while we're fishing tournaments all over the world. I would not have a boat without an Eskimo Ice maker."

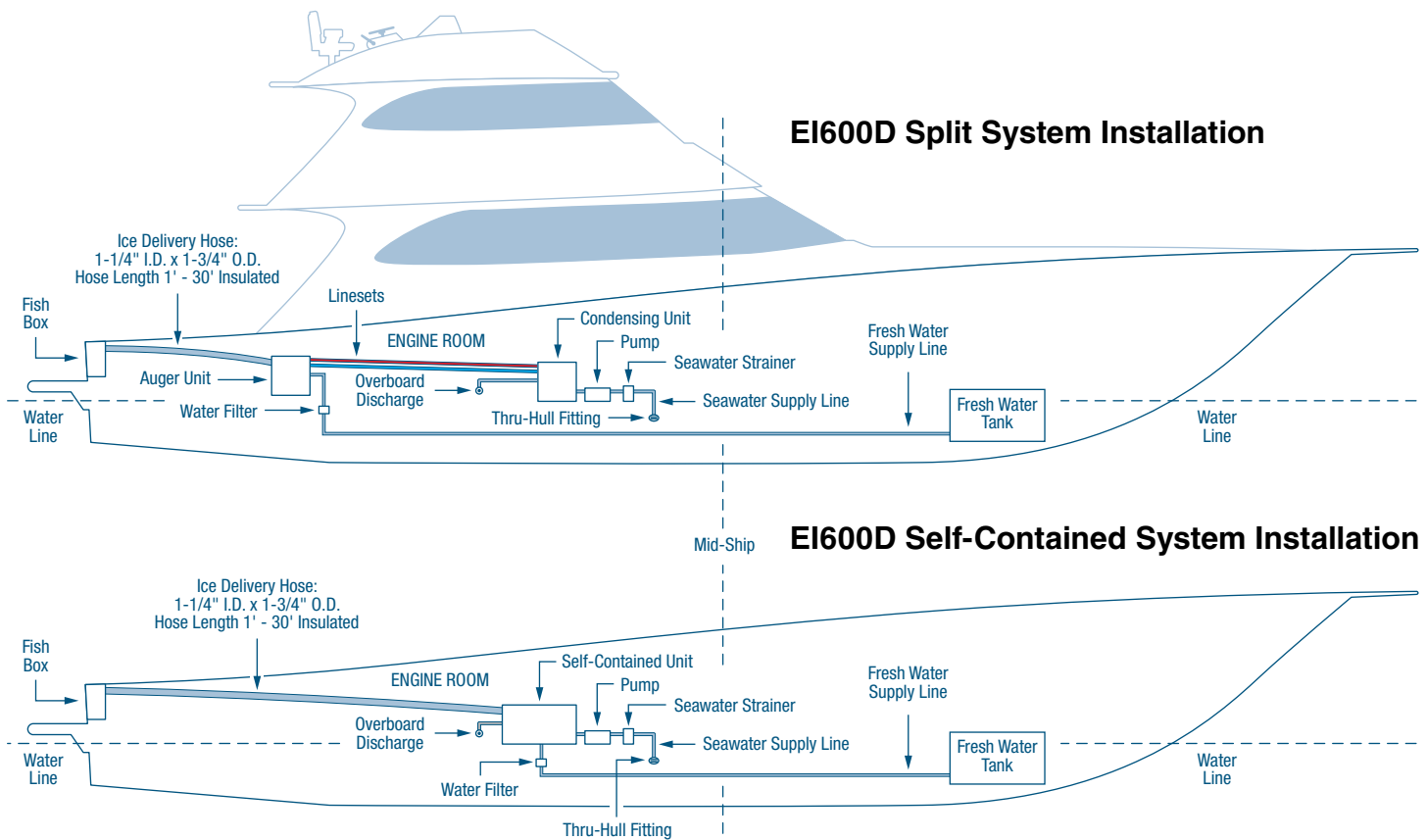
— Capt. Ronnie Fields, In The Bite Magazine's 2010 Captain of the Year Tournament Champion

Technical Specifications for Eskimo Ice 600 Series

MODEL	VOLTS/FREQ/PH	RUNNING AMPS	LRA	CAPACITY ⁽¹⁾	WATER CONSUMPTION	WIDTH (IN/MM)	DEPTH (IN/MM)	HEIGHT (IN/MM)	NET WEIGHT (LB/KG)
REMOTE SYSTEMS									
EIR600-115 Condensing Unit	115/60/1	14.0	66.3	N/A	N/A	12.88/327	12.88/327	15.00/381	67/30.5
EIR600-115 Auger Unit	115/60/1	2.0	N/A	600 lb/day	60 gal/day	14.25/362	16.38/416.1	20.88/530.4	83/37.7
EIR600-230 Condensing Unit	230/60/1	7.0	33.5	N/A	N/A	12.88/327	12.88/327	15.00/381	67/30.5
EIR600-230 Auger Unit	230/60/1	1.0	N/A	600 lb/day	60 gal/day	14.25/362	16.38/416.1	20.88/530.4	83/37.7
EIR600-220 Condensing Unit	220/50/1	6.5	40.0	N/A	N/A	12.88/327	12.88/327	15.00/381	67/30.5
EIR600-220 Auger Unit	220/50/1	1.0	N/A	500 lb/day ⁽²⁾	60 gal/day	14.25/362	16.38/416.1	20.88/530.4	83/37.7
Remote Electrical Box	N/A	N/A	N/A	N/A	N/A	9.25/234	5.38/136	6.38/162	4.00/1.81
SELF-CONTAINED SYSTEMS									
EI600D-115	115/60/1	16.0	66.3	600 lb/day	60 gal/day	17.50/445	23.50/597	22.00/559	135.00/61.4
EI600D-230	230/60/1	8.0	33.5	600 lb/day	60 gal/day	17.50/445	23.50/597	22.00/559	135.00/61.4
EI600D-220	220/50/1	7.5	40.0	500 lb/day ⁽²⁾	60 gal/day	17.50/445	23.50/597	22.00/559	135.00/61.4

¹ Capacity ratings depend upon conditions.

² Rated at 500 (227 kg) lbs per day because of 50Hz derate.



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Environmentally
Responsible

Dealer:

Ice Cube (EI540D) Fishbox Ice System

New Design Produces Up to 540D Lbs. of Ice Per Day

Makes
116% More Ice



Dometic Eskimo Ice is available in a smaller version—the Ice Cube—for boats with less space but a big demand for daily ice output. A cube-shaped cabinet with a footprint of only 16 x 16 in. (413 x 413 mm), the Ice Cube makes up to 540 lbs. (245 kg) of ice per day. Ice is generated within minutes after starting the unit, and makes more than 22 lbs. (10 kg) of ice per hour under optimal operating conditions.

The Ice Cube is a self-contained unit and easy to install. The ice it produces can be pumped through insulated hose lengths up to 30 ft. (4.5 m) to nearly any desired location onboard, such as a fish box or cooler.

Operation of the Ice Cube is easy with its Smart Logic Digital Displays. A full menu of sensors and status lights monitor gas pressure, auger motor, compressor, water level, ice level, and ice clogs, and will shut off the system if problems are detected. But the system automatically resets and restarts for certain key faults.

The Ice Cube system includes: EI540D self-contained fishbox ice maker, one Smart Logic digital control/display, water filter, 30 ft. (9.1 m) ice delivery hose and insulation.



The Smart Logic digital control features a bright LED and full menu of sensors and status lights to monitor gas pressure, auger motor, compressor, water level, ice level, and ice clogs.



Key Benefits

- Produces up to 540 lbs. (245 kg) of fishbox ice per day
- Compact footprint - 16 x 16 in. (413 x 413 mm)
- Available in 60Hz or 50Hz
- Up to two remotely-mounted Smart Logic digital controls/display panels
- Photo-electric ice-level sensor
- Start-time delay
- Fresh-water filter included
- Pre-charged system
- Sensors monitor all system functions
- Manual reset to restart system from lock-out
- Improved fresh-water float switch
- Ventilated cover panels can be removed for maintenance access from any side

Product Testimonial

"We recently installed an Eskimo Ice machine on the Big Oh and it provides us with professionally crushed ice to keep our bait and our fish fresh while we're fishing tournaments all over the world. I would not have a boat without an Eskimo Ice maker."

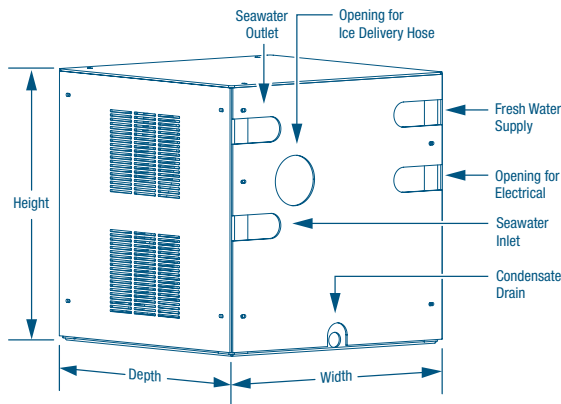
— Capt. Ronnie Fields, In *The Bite Magazine's* 2010 Captain of the Year

Technical Specifications for Eskimo Ice EI540D

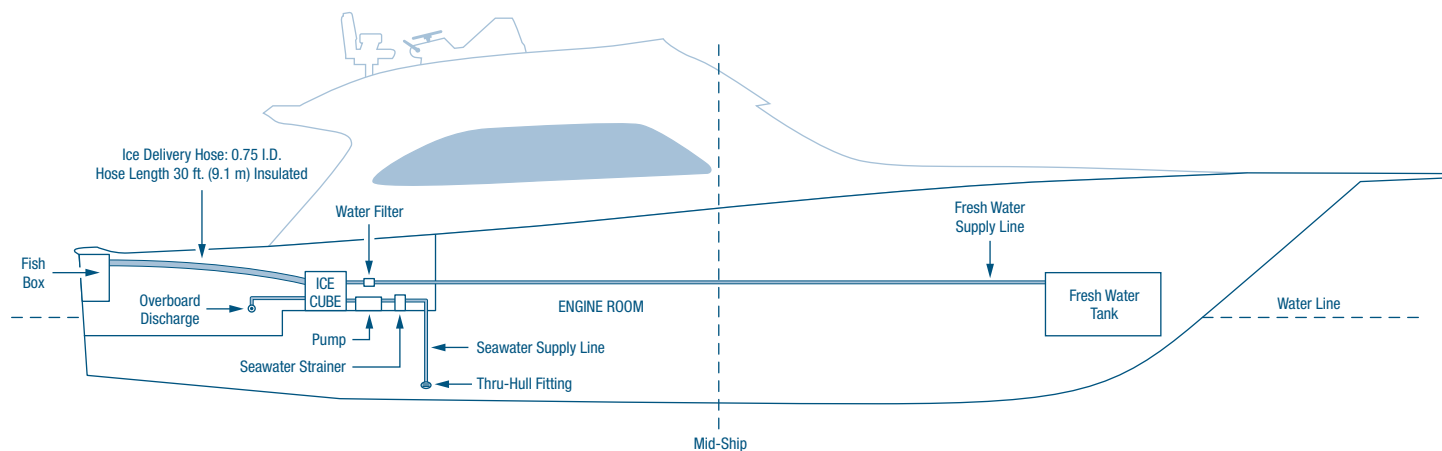
MODEL	EI540D-115V/60HZ	EI540D-230V/60HZ	EI540D-220V/50HZ
Capacity Per Day (lbs/kg) ⁽¹⁾	540/245	540/245	540/245
Capacity Per Hour (lbs/kg) ⁽¹⁾	>22/10	>22/10	>22/10
Voltage (VAC)	115V	230V	220V
Cycle (Hz)	60	60	50
Full Load Amps (FLA) Cool	10.64	TBD	TBD
Locked Rotor Amps (LRA)	58.8	TBD	TBD
Refrigerant Gas Type	R-404A		
Water Consumption Per Day (gal/l)	64.7/245		
Height (in/mm)	16.25/413		
Width (in/mm)	16.25/413		
Depth (in/mm)	16.25/413		
Seawater Connection Size & Type	0.625 in. Hose Barb		
Freshwater Connection Size & Type	0.250 in. SAE		
Net Weight (lbs/kg)	82.0/37.2	TBD	TBD
Gross Weight (lbs/kg)	97.0/43.9	TBD	TBD

¹ Under optimal conditions.

Dimensions



Recommended System Installation



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Represents sales and service coverage range



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