

Radome Environmental Control Units

Keeps Sensitive Domed Electronics Cool



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 provide air conditioning 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, remoted 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 cleanrooms.

The Radome ECU is available in three configurations:



Split-gas configuration



Remote ducted self-contained (ideal for low pedestal applications)



Interior dome self-contained (exhaust kit is available for low pedestal applications to correct condenser air short cycling)

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.
- Optional electric heat.
- 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.

Specifications for Radome Environmental Control Units

Model ⁽¹⁾	HSE16K		
Capacity (BTU/h)	16000		16
Voltage (V) ⁽²⁾	115	230	220
Cycle (Hz)/Phase (Ph)	60/1		50/1
Full Load Amps (FLA) Cool (A)	14.34	7.2	5.5
Full Load Amps (FLA) Heat (A)	9.84	TBD	
Full Load Amps (FLA) Blower (A)	2.95	1.8	
Locked Rotor Amps (LRA) (A)	59	29	32
Optional Electric Heat (kW)	1		
Max. Circuit Breaker (A)	40	20	2
Min. Circuit Ampacity (A)	25	14	12
Refrigerant Type	417A		
Max. Height (in/mm) ⁽³⁾	14.5/369		
Width (in/mm) ⁽³⁾	18/458		
Max. Depth (in/mm) ⁽³⁾	30/762		
Net Weight (lbs/kg) ⁽⁴⁾	99/44.1	97/43.1	96/43.6
Gross Weight (lbs/kg) ⁽⁴⁾	215/97.6	116/52.7	115/52.2

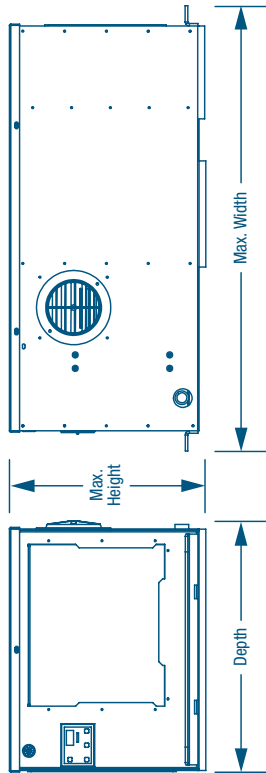
¹ Specifications in this table are for the interior self-contained configuration. For information about different configurations please contact a Dometic Marine sales representative at 954-973-2477.

² 230V/60Hz unit can be operated at 200-220V/50Hz

³ All dimensions ± 0.30 in. (8 mm).

⁴ All weights ± 10%

Dimensions



Dealer

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Specifications and availability subject to change without notice.

