

Air Conditioning Split DX System

For even the most rigorously engineered products, there is no harsher test than the marine environment. Whether fresh or salt water, warm weather or cold, products designed for the marine environment are sternly tested with every nautical mile. Answering this challenge is Technicold by Northern Lights.

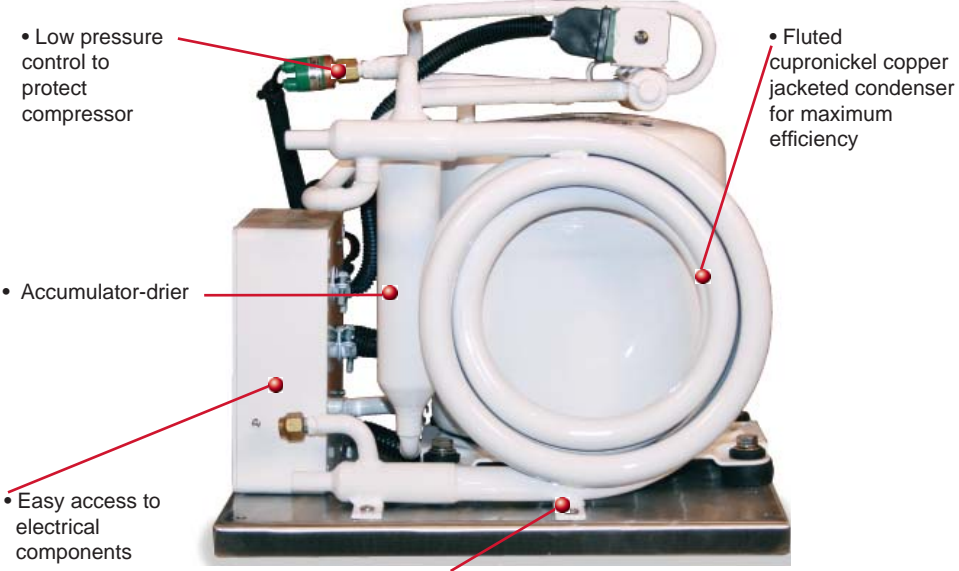
An ingenious, and iron-tough solution for on-board air conditioning is Technicold's line of Split DX Systems. The condensing and evaporation units are packaged together into a compact, versatile workhorse. Technicold Split DX Systems are small enough to install in an engine room, under a floor, or tucked into any convenient berth. Reverse cycle is even available when heated air is required.

The condensing unit's compressor is equipped with a fluted cupronickel counter-flow condenser, which is sea water cooled to remove heat from the refrigerant. This keeps your unit safe and condensation free without adding space or weight. Soft copper refrigerant tubing connects the condensing unit to the evaporator. A non-corrosive, non-conductive Bakelite electrical box holds the start capacitor, start relay and run capacitor, promising reliable start-up even under low voltage conditions. Technicold condensing units are available in most voltage options and on 50/60 cycle operation.

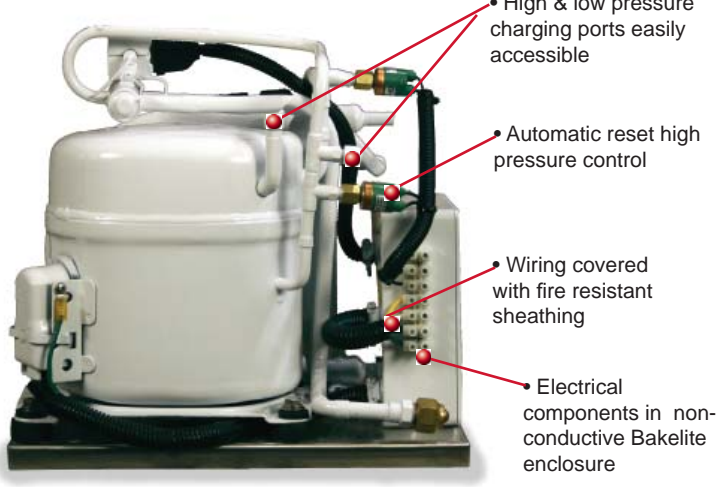
Convenience and efficiency are the watch words. Technicold systems feature a whisper quiet, sealed hermetic compressor mounted on a condensation-proof 16 gauge stainless steel platform. Vibration mounts make the unit even quieter and more efficient. The fluted coaxial "tube-in-tube" counter flow condenser is self-cleaning and forged of reliable cupronickel to ensure optimal heat transfer with minimum water flow.

Because safety at-sea is of utmost importance, Technicold provides standard safety systems that are truly state of the art. A low pressure control protects the compressor from damage by cycling the compressor off should airflow become restricted or the coolant should run low.

Tough, reliable, safe and quiet - the endlessly versatile Technicold series of remote condensing unit truly sets the industry standard.



- Low pressure control to protect compressor
- Accumulator-drier
- Easy access to electrical components
- Fluted cupronickel copper jacketed condenser for maximum efficiency
- Stainless steel chassis, fasteners & hardware



- High & low pressure charging ports easily accessible
- Automatic reset high pressure control
- Wiring covered with fire resistant sheathing
- Electrical components in non-conductive Bakelite enclosure

Compact overall size

MODEL	BTU @ 60 HZ	BTU @ 50 HZ	DIMENSIONS-HxWxD: in (mm)	AMP Draw 60 Cycle 115V (230V)	Weight: Lbs (kg)
RC08	8,000	6,600	15 x 14 x 10 (381 x 342.9 x 254)	8.9 (4.4)	59 (26.79)
RC12	12,000	10,000	15 x 14 x 10 (381 x 342.9 x 254)	11 (5.9)	64 (29.06)
RC16	16,000	13,250	15 x 14 x 10 (381 x 342.9 x 254)	15 (6.2)	66 (29.96)
RC24	24,000	20,000	17 x 16 x 13 (431.8 x 406.4 x 330.2)	-- (12)	120 (54.48)
RC32	32,000	26,500	17 x 17 x 13 (431.8 x 431.8 x 330.2)	-- (16.5)	128 (58.11)
RC40	40,000	33,000	17 x 18 x 13 (431.8 x 457.2 x 330.2)	-- (22.5)	130 (59.02)
RC48	48,000	40,000	17 x 20 x 13 (431.8 x 508 x 330.2)	-- (22.7)	149 (67.65)
RC60	60,000	50,000	17 x 21 x 13 (431.8 x 533.4 x 330.2)	-- (26)	152 (69.01)

Specifications may change without notice. Use of alternate compressor may alter dimensions

Reverse cycle heating capacity is dependent on seawater temperature, and diminishes as water temperature decreases.
For 50 Hz applications - decrease capacity by 17%

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Air Conditioning Direct Expansion Evaporator

Whether fresh water or salt, warm weather or cold, marine systems are sternly tested with every nautical mile. Technicold's line of direct expansion evaporators are built for the most unforgiving of seas.

Technicold by Northern Lights represents the state of the art in on-board environmental climate control. Offering a wide selection from 6,000 to 32,000 BTU, Technicold evaporators feature high-volume variable speed blowers that can be rotated 120 degrees for optimal versatility through top or side discharge.



Technicold evaporators are thoughtfully constructed of 16 gauge 316L stainless steel and feature heliarc welded seams throughout to resist corrosion. A two inch, double drain condensation pan assures proper drainage while preventing overflow, even in rough seas. Drip pans and blowers are fully insulated to prevent condensation build up.

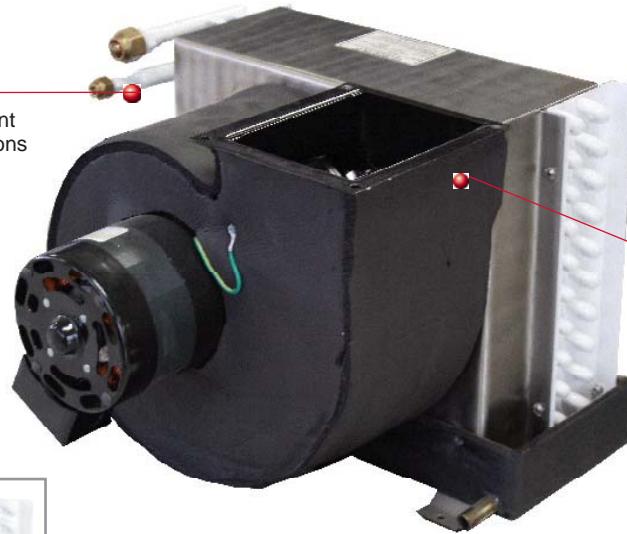
In concert with Technicold air conditioning systems, our evaporators are available with down discharge. In a closet, under a settee, beneath a berth, in a locker – the choice is yours. A plenum outlet discharges air via flex duct precisely into the area to be cooled.

Our 24,000 and 32,000 BTU air handlers incorporate a unique twin blower style, which dramatically lowers both noise signatures, and height profiles.

Fully customizable and backed by decades of experience, Technicold by Northern Lights truly achieves the state of the art in on board climate control.

• Low height profile

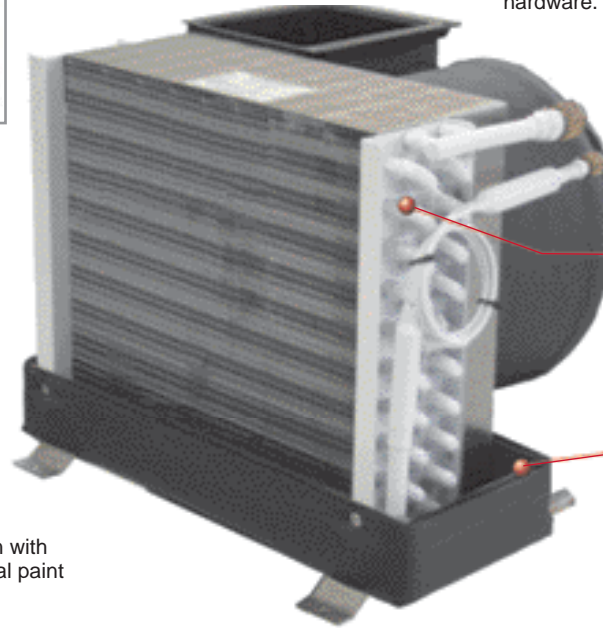
• Refrigerant connections



• Blower rotates for ease installation.

High volume variable speed blower, insulated for quiet operation and to prevent condensation.

• 16 Gauge stainless steel 316L chassis fasteners & hardware.



• Full rated capacity coils

• Two inch deep fully insulated stainless steel condensate pan with two drains

• Shown with optional paint

VOLTAGE 115V OR 230V 50/60 CYCLE

MODEL	BTU @ 60 HZ	BTU @ 50 HZ	DIMENSIONS- HxWxD: in. (mm)	AMP Draw 115V 1ph (230V 1ph)	CFM	Weight Lbs (Kg)
RE06A(B)	6,000	5,000	9.5 (241) x 13 (330) x 13 (330)	1.86 (0.93)	265	18 (8.17)
RE09A(B)	9,000	7,500	9.5 (241) x 13 (330) x 13 (330)	1.86 (0.93)	265	19 (8.62)
RE12A(B)	12,000	10,000	12 (305) x 15 (381) x 14 (356)	3.2 (1.6)	350	25 (11.35)
RE16A(B)	16,000	13,250	12 (305) x 15 (381) x 16 (406)	3.55 (1.7)	500	27 (12.26)
RE18A(B)	18,000	15,000	12 (305) x 15 (381) x 16 (406)	3.55 (1.7)	500	27 (12.26)
RE24A(B)	24,000	20,000	12 (305) x 32 (813) x 14 (356)	6.4 (3.2)	700	51 (23.13)
RE32A(B)	32,000	26,500	12 (305) x 32 (813) x 15.5 (394)	7.1 (3.4)	1,000	55 (24.95)

Dimensions shown without electrical heat options.

Above dimensions represent the blower in a vertical discharge position without a duct ring or plenum box attached

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Building Marine Equipment to Withstand the Marine Environment

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