



# AQUA AIR

---

MARINE AIR CONDITIONING SYSTEMS





WORLD-CLASS  
AIR CONDITIONING SYSTEMS

CUSTOM DESIGNED  
FOR LUXURY VESSELS





CUSTOM 60 TON, 4 STAGE CHILLER PLANT ASSEMBLY DESIGNED TO BE COMPLETELY DISASSEMBLED FOR EASE OF INSTALLATION



FULLY CUSTOMIZED PLUG AND PLAY 24 TON, 4 STAGE CHILLER PLANT CONTROL PANEL

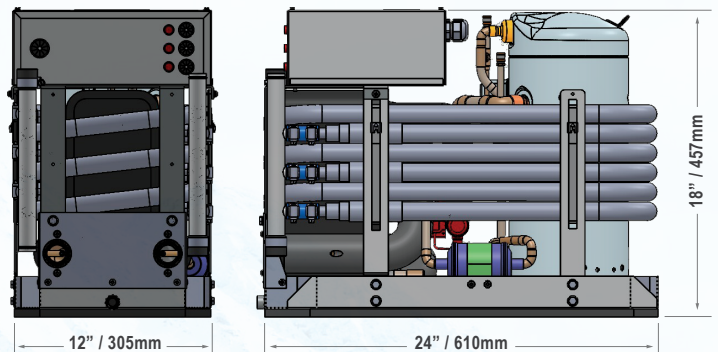


# ALPHA TITANIUM CHILLER SERIES | AT2 - AT6

Since their introduction, Alphas have constantly evolved. Units built today feature Stainless Steel chassis and fasteners, Scroll compressors and TITANIUM condensers and headers all finished with Awlgrip®. What has not changed is the compactness and unrivaled reliability. Alphas are built in capacities from 24,000 to 72,000 BTU/H, all sharing the same chassis dimensions. If a vessel requires more than 72,000 BTU/H, multiple chillers can be manifolded together for additional capacity.



AT	5	H	G	D	Model Number Nomenclature
				C	208-230 / 1 / 60
				CK	200-220 / 1 / 50
				D	208-230 / 3 / 60
				DK	200-220 / 3 / 50
				E	440-480 / 3 / 60
				EK	380-415 / 3 / 50
			G		R-407C Refrigerant
					Blank Cooling Only H Reverse Cycle
					Capacity (In Tons) At Rated Voltage
					Alpha Series Titanium Modular Chillers Series



## FEATURES

- Titanium seawater condensers
- Titanium headers
- Copeland Scroll compressors
- Stainless Steel chassis and fasteners
- Coated compressor bases
- Drain pan internally coated
- Awlgrip® finish
- Available in either Reverse Cycle or Cooling Only units
- Access ports for high and low refrigerant pressure
- High and low automatic reset refrigerant pressure switches
- Stainless Steel plate chiller
- Electrical box can be remote mounted
- Honeywell digital temperature controller with integral time delay or Aqua Air MCC Controller
- Freeze prevention thermostat
- 3 phase units can be used with Variable Frequency Drives (VFD's)
- All units performance tested before shipping
- R-407C environmentally friendly refrigerant



MODEL	CAPACITY BTU/HR	AVAILABLE VOLTAGE	WEIGHT		CHILLWATER INLET / OUTLET	MINIMUM CHILLWATER FLOW		SEAWATER INLET / OUTLET	MINIMUM SEAWATER FLOW	
			LBS	KGS		GPM	LPM		GPM	LPM
AT2*	24,000	208-230/1/60 208-230/3/60 460/3/60 380-415/3/50	140	64	1/2" FPT	4.8	18.3	5/8" OD	8.0	31.0
AT2.5*	30,000	208-220/1/50 208-230 /1/60 208-230/3 /60 460/3/60 380-415/3 50	157	71	3/4" FPT	6.0	22.9	1" OD	10.0	38.1
AT3*	36,000	208-230/1/60 208-230/3/60 460/3/60 380-415/3/50	157	71	3/4" FPT	7.2	27.4	1" OD	12.0	45.8
AT4*	48,000	208-230/1/60 208-230/3/60 460/3/60 380-415/3/50	161	73	1" FPT	9.6	36.5	1" OD	16.0	61.0
AT5*	60,000	208-230/1/60 208-230/3/60 460/3/60 380-415/3/50	161	73	1-1/4" FPT	12.0	45.6	1" OD	20.0	76.3
AT6*	72,000	208-230/3/60 460/3/60	165	85	1-1/4" FPT	14.4	54.5	1" OD	24.0	90.8

\* See Model Number Nomenclature chart for additional letter codes

MODEL	CAPACITY			POWER SUPPLY			FULL LOAD AMPS FLA	POWER INPUT W	LOCKED ROTOR AMPS LRA
	BTU/HR	KCAL/HRT	TONS	VOLTAGE	PHASE	HZ			
AT2(H)GC	24,000	6,000	2.0	208-230	1	60	6.7	1550	56
AT2(H)GD	24,000	6,000	2.0	208-230	3	60	5.9	1630	45
	19,920	4,980	1.7	200-220	3	50	6.1	1380	48
AT2(H)GE	24,000	6,000	2.5	460	3	60	1.4	1690	23
	19,920	4,980	2.5	380-415	3	50	3.0	1460	24
AT2.5(H)GC	30,000	7,500	2.5	208-230	1	60	7.3	1590	87
AT2.5(H)GCK	30,000	7,500	2.5	200-220	1	50	8.9	1989	87
AT2.5(H)GD	30,000	7,500	2.5	208-230	3	60	6.7	2025	73
AT2.5(H)GE	30,000	7,500	2.5	460	3	60	3.4	2025	38
AT2.5(H)GEK	30,000	7,500	2.5	380-415	3	50	4	2137	40
AT3(H)GC	36,000	9,000	3.0	208-230	1	60	11.8	2550	88
AT3(H)GD	36,000	9,000	3.0	208-230	3	60	8.1	2460	77
	30,000	7,500	2.5	200-220	3	50	7.1	2100	76
AT3(H)GE	36,000	9,000	3.0	460	3	60	4.5	2700	39
	30,000	7,500	2.5	380-415	3	50	4.5	2260	38
AT3(H)GEK	36,000	9,000	3.0	380-415	3	50	4.6	2450	44
AT4(H)GC	48,000	12,000	4.0	208-230	1	60	16.2	3410	129
AT4(H)GCK	48,000	12,000	4.0	200-220	1	50	16.6	3430	140
AT4(H)GD	48,000	12,000	4.0	208-230	3	60	11	3350	120
	40,000	10,000	3.3	200-220	3	50	9.5	2830	88
AT4(H)GE	48,000	12,000	4.0	460	3	60	5.3	3320	60
	40,000	10,000	3.3	380-415	3	50	5.5	2830	44
AT4(H)GEK	48,000	12,000	4.0	380-415	3	50	5.7	3005	58
AT5(H)GC	60,000	15,000	5.0	208-230	1	60	19.8	4230	169
AT5(H)GD	60,000	15,000	5.0	208-230	3	60	13.4	4120	137
	50,000	12,000	4.0	200-220	3	50	10.8	3370	115
AT5(H)GE	60,000	15,000	5.0	460	3	60	6.4	4120	85
	50,000	12,000	4.0	380-415	3	50	6.3	3370	58
AT5(H)GEK	60,000	15,000	5.0	380-415	3	50	7.4	3615	43
AT6(H)GD	72,000	18,000	6.0	208-230	3	60	14.5	4780	156
	60,000	14,000	4.7	200-220	3	50	14.4	3970	172
AT6(H)GE	72,000	18,000	6.0	460	3	60	7.2	4780	75
	60,000	14,000	4.7	380-415	3	60	7.2	3970	74

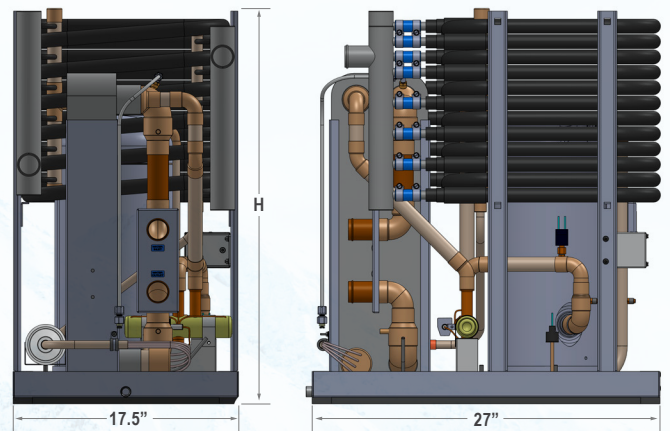


# ALPHA COMPACT TITANIUM CHILLER SERIES | ACT07 - ACT15

Today's Alpha ACT Series Chillers feature Stainless Steel chassis and fasteners, Scroll compressors and TITANIUM condensers and headers all finished with Awlgrip®. ACTs are unrivaled in their compactness and reliability. They are built in capacities from 90,000 to 180,000 BTU/H and all share the same chassis dimensions. Should a vessel's cooling requirements exceed 180,000 BTU/H, multiple chillers can be manifolded together to increase capacity.



ACT	10	H	G	D	Model Number Nomenclature
				D	208-230 / 3 / 60
				DK	200-220 / 3 / 50
				E	440-480 / 3 / 60
				EK	380-415 / 3 / 50
			G		R-407C Refrigerant
					Blank Cooling Only H Reverse Cycle
					Capacity (In Tons) At Rated Voltage
					Alpha Series Titanium Modular Chiller Series



## FEATURES

- Titanium seawater condensers
- Titanium headers
- Copeland Scroll compressors
- Stainless Steel chassis and fasteners
- Coated compressor bases
- Drain pan internally coated
- Awlgrip® finish
- Available in either Reverse Cycle or Cooling Only units
- Access ports for high and low refrigerant pressure
- High and low automatic reset refrigerant pressure switches
- Stainless Steel plate chiller
- Electrical box can be remote mounted
- Honeywell digital temperature controller with integral time delay or Aqua Air MCC Controller
- Freeze prevention thermostat
- All units can be used with Variable Frequency Drives (VFD's)
- All units performance tested before shipping
- R-407C environmentally friendly refrigerant



MODEL	CAPACITY		NOMINAL TONS	POWER SUPPLY	AMP DRAW	POWER KW	LENGTH IN/MM	WIDTH IN/MM	HEIGHT IN/MM	WEIGHT IN/MM
	BTU/H	KCAL/H								
ACT07(H)GD	90,000 74,700	22,500 18,675	7.5 6.2	208-3-60 220-3-50	21 22	5.7 5.2	27/686	15.5/445	28/711	250/113
ACT07(H)GE	90,000 74,700	22,500 18,675	7.5 6.2	460-3-60 380-3-50	10 11	5.7 5.2	27/686	15.5/445	28/711	250/113
ACT10(H)GD	120,000 100,000	30,000 24,900	10 8.3	208-3-60 220-3-50	27 30.4	7.8 8.1	27/686	15.5/445	31/787	270/122
ACT10(H)GE	120,000 100,000	30,000 24,900	10 8.3	460-3-60 380-3-50	13.4 15.2	7.8 8.1	27/686	15.5/445	31/787	270/122
ACT12(H)GD	150,000 124,500	37,800 31,374	12.5 10.4	208-3-60 220-3-50	28 23	8.6 7.9	27/686	15.5/445	34/864	320/146
ACT12(H)GE	150,000 124,500	37,800 31,374	12.5 10.4	460-3-60 380-3-50	14 12	8.6 7.9	27/686	15.5/445	34/864	320/146
ACT15(H)GD	180,000 149,400	45,000 37,350	15 12.5	208-3-60 220-3-50	40.5 40	13.8 11.8	27/686	15.5/445	39/991	340/155
ACT15(H)GE	180,000 149,400	45,000 37,350	15 12.5	460-3-60 380-3-50	20.2 20	13.8 11.8	27/686	15.5/445	39/991	340/155

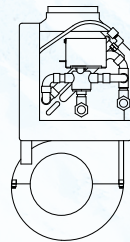
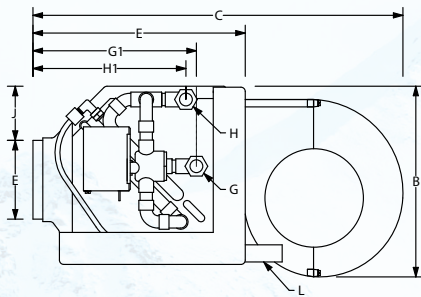
MODEL	MINIMUM CHILLWATER		CHILLWATER		MINIMUM SEAWATER		SEAWATER	
	GPM	LPM	INLET	OUTLET	GPM	LPM	INLET	OUTLET
ACT07(H)GD	18	15	1-3/8" OD Male Hose Connection	35mm	30	25	1-5/8" OD Male Hose Connection	41mm
ACT07(H)GE	18	15	1-3/8" OD Male Hose Connection	35mm	30	25	1-5/8" OD Male Hose Connection	41mm
ACT10(H)GD	24	20	1-5/8" OD Male Hose Connection	41mm	40	33	1-5/8" OD Male Hose Connection	41mm
ACT10(H)GE	24	20	1-5/8" OD Male Hose Connection	41mm	40	33	1-5/8" OD Male Hose Connection	41mm
ACT12(H)GD	30	25	1-5/8" OD Male Hose Connection	41mm	50	42	1-5/8" OD Male Hose Connection	41mm
ACT12(H)GE	30	25	1-5/8" OD Male Hose Connection	41mm	50	42	1-5/8" OD Male Hose Connection	41mm
ACT15(H)GD	36	30	2-1/8" OD Male Hose Connection	54mm	60	50	1-5/8" OD Male Hose Connection	41mm
ACT15(H)GE	36	30	2-1/8" OD Male Hose Connection	54mm	60	50	1-5/8" OD Male Hose Connection	41mm



# BTW 06-36 BLOW THRU FAN COILS

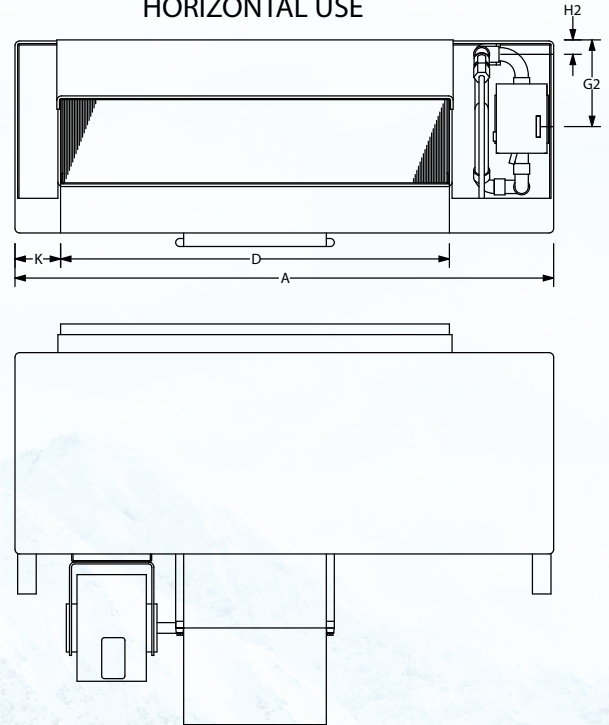


TECHNICAL SPECIFICATIONS								
Unit Size		06	09	12	18	24	30	36
Cooling Capacity	BTU/HR	6,000	9,000	12,000	18,000	24,000	30,000	36,000
	KCAL/HR	1,512	2,268	3,024	4,536	6,048	7,560	9,072
Air Flow Capacity	CFM	200	300	400	600	800	1,000	1,200
	M <sup>3</sup> H	340	510	680	1,020	1,360	1,700	2,040
Fan Amperage	115v	2.70	2.70	2.70	2.70	5.40	5.40	5.40
	230v	1.35	1.35	1.35	1.35	2.70	2.70	2.70
Fan Wattage	W	311	311	311	311	621	621	621
Required Chillwater Flow	GPM	1.2	1.8	2.4	3.6	4.8	6.0	7.2
	LPM	4.5	6.8	9.1	13.6	18.2	22.7	27.3
Pressure Drop	Ft/H <sub>2</sub> O	2.7	6.5	4.8	6.2	7.6	9.4	11.1
	kPa	8.1	19.4	14.3	18.5	22.7	28.1	33.1
Maximum Heater Size	kW	1.0	1.5	2.0	3.0	4.0	5.0	6.0
	BTU/HR KCAL/HR	3,415 861	5,123 1,291	6,830 1,721	10,245 2,582	13,660 3,442	17,075 4,303	20,490 5,164
Auxiliary Heater Size	kW	1.0	1.0	1.0	1.5	2.0	3.0	3.0
	BTU/HR KCAL/HR	3,415 861	3,415 861	3,415 861	5,123 1,291	6,830 1,721	10,245 2,582	10,245 2,582
Weight	LBS	30.0	34.0	38.0	42.0	45.0	55.0	65.0
	KGS	13.6	15.5	17.3	19.1	20.5	25.0	29.5
Minimum Supply Air Grille Size	in <sup>2</sup>	56	72	96	128	160	200	240
	cm <sup>2</sup>	361	464	619	826	1,032	1,290	1,548
Minimum Return Air Grille Size	in <sup>2</sup>	84	108	144	192	240	300	360
	cm <sup>2</sup>	542	697	929	1,238	1,548	1,935	2,322



BTW-09 SHOWN  
VERTICAL USE

BTW-09 SHOWN  
HORIZONTAL USE



UNIT DIMENSIONS							
Unit Size	06	09	12	18	24	30	36
A	21" 534mm	25" 635mm	31" 788mm	39" 991mm	47" 1194mm	57" 1448mm	67" 1702mm
B	9-11/16" / 246mm						
C	18-13/16" / 478mm						
D	14-1/4" 362mm	18-1/4" 464mm	24-1/4" 616mm	32-1/4" 819mm	40-1/4" 1022mm	50-1/4" 1276mm	60-1/4" 1530mm
E	4" / 102mm						
F	10-13/16" / 275mm						
G	1/2" FPT Water Inlet						
G1	8-1/4" / 210mm						
G2	4-1/16" / 103mm						
H	1/2" FPT Water Outlet						
H1	7-3/4" / 197mm						
H2	11/16" / 18mm						
J	2-3/4" / 70mm						
K	1-7/8" / 48mm						
L	1/2" / 13mm OD Drain						

## FEATURES

- Seven models to choose from ranging in size from 6,000 to 36,000 BTUH
- Universal horizontal or vertical use
- Units are constructed of corrosion resistant aluminum & ABS plastic
- 1050 RPM motors for quiet operation
- Optional internally mounted incoloy rod type heating elements available for single phase input
- Three-way motorized water valve is standard with Pop-Top motor assembly
- Insulated and internally coated aluminum drain pan with anti-slosh foam media inside
- Condensate outlets ( 1/2" OD ) on both corners of the drain pan
- ABS blower housings with aluminum impellers
- Integral air bleeder for easy commissioning
- Units available for 115/1/60, 100/1/50, 208-230/1/60 and 200-220/1/50 power inputs
- All coil assemblies are pressure tested to assure leak-proof performance
- All fan motors are test run to assure proper operation and air flow output

# WCW 06-24 DRAW THRU FAN COILS



## MODEL NUMBER EXAMPLES

Unit without Internal Element Heater

### WCW-16C

16 = 16,000 BTU/HR  
C = 230-1-50/60

Unit with Internal Element Heater

### WCW-09C-1.5

9 = 9,000 BTU/HR  
C = 230-1-50/60  
1.5 = 1.5 kW 230-1 heater

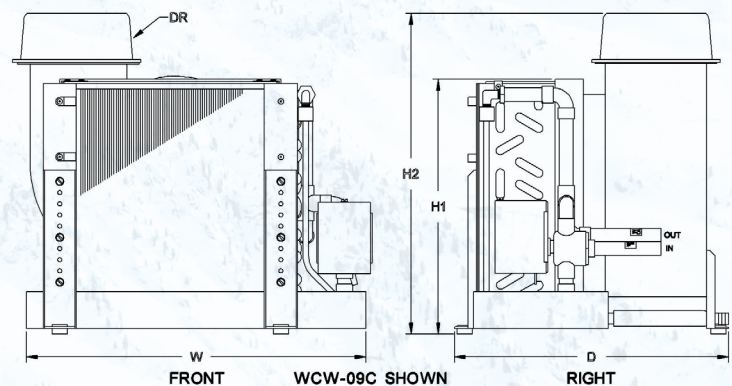
SPECIFICATIONS	WCW-06		WCW-09		WCW-12		WCW-16		WCW-18		WCW-24	
COOLING CAPACITY BTU/HR - KCAL/HR	6,000 1,500		9,000 2,250		12,000 3,000		16,000 4,000		18,000 4,500		24,000 6,000	
AIR FLOW CAPACITY CFM / MPH	270	460	330	560	400	679	530	900	600	1020	800	1360
WEIGHT Lbs / Kg	23	10.5	25	11.4	32	14.5	34	15.5	36	16.4	39	17.7
WIDTH in / mm W	14-1/4	362	16	406	17-1/2	445	17-1/2	445	21	533	23-1/8	587
DEPTH in / mm D	14	356	14-1/4	362	14-1/4	362	15	384	16	406	16-1/4	413
HEIGHT TO TOP OF COIL in / mm H1	10	254	11-1/2	292	13	330	13	330	14-1/4	362	16-1/4	413
MAXIMUM HEIGHT in / mm H2	13	330	14-1/4	362	15-1/2	394	15-1/2	394	15-7/8	403	16-5/8	422
FAN AMP DRAW 230V	0.8		0.8		0.8		0.9		0.9		1.0	
POWER, WATTS	182		182		182		200		200		216	
MIN RETURN AIR in <sup>2</sup> / cm <sup>2</sup>	72	465	100	645	120	774	144	929	180	1161	240	1548
MIN SUPPLY AIR in <sup>2</sup> / cm <sup>2</sup>	40	258	48	310	60	387	72	465	90	581	120	774
CHILLWATER IN & OUT OD in/mm	5/8	16	5/8	16	5/8	16	5/8	16	5/8	16	7/8	22
FLEX DUCT COLLAR OD in/mm DR	5"	125	5	125	6	150	6	150	7	175	7	175
INTERNAL HEATER (OPT) 230-1-60	1.0 kW		1.5 kW		2.0 kW		2.0 kW		2.0 kW		3.0 kW	
INTERNAL HEATER AMP DRAW AT 230-1-60	4.3		6.5		8.7		8.7		8.7		13.0	

ADD "C" TO THE END OF THE MODEL NUMBER FOR A 200-230/1/50-60 UNIT

80950.WPD

## FEATURES

- High-capacity motorized impeller squirrel cage blower is designed for quiet operation with flexible duct systems
- Round flexible duct connector installed on the unit, this connector also adapts to Aqua Air AT series adapter duct tees
- Three way motorized Pop-Top water valve is pre-installed on the unit
- One handed removal for ease of service
- Dual condensate outlets on the drain pan are factory connected into a common 1/2" hose barb tee for ease of installation
- Anti-splash, anti-fungal foam media inside the drain pans prevent water splashing out even in the roughest seas
- Vertically adjustable mounting legs with rubber vibration pads and mounting screws
- The air bleeder is mounted on the end of a 12" plastic tube for easy access during commissioning of the system
- All surfaces that might have condensate form on them are covered with 1/8" thick foam insulation
- Units available for 115/1/60 and 200-230/1/50-60 power inputs
- Units available with optional 230-1 internal heating elements

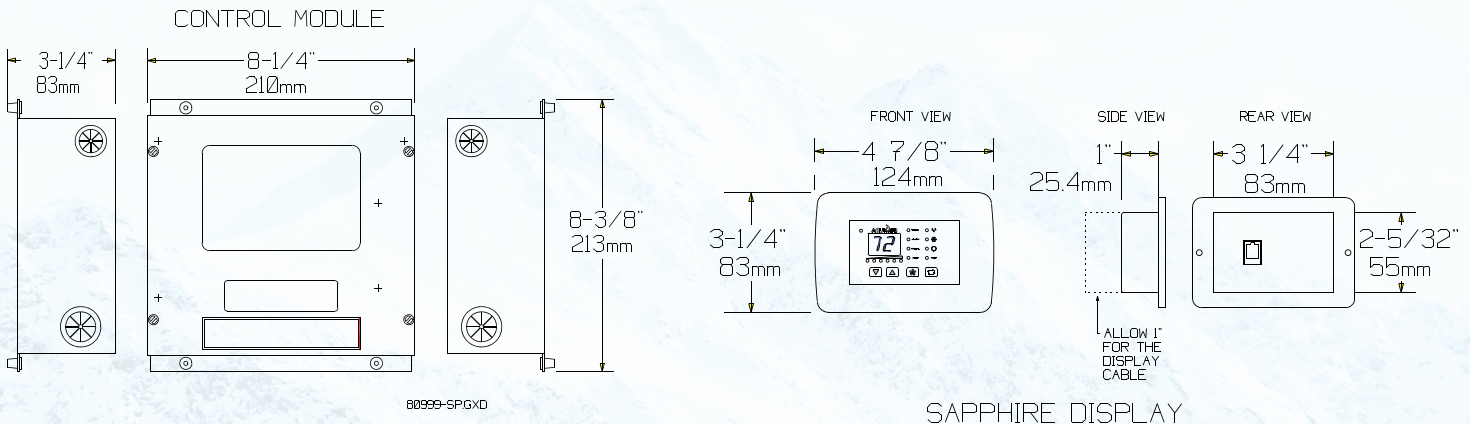




# SAPPHIRE DIGITAL THERMOSTAT

Sapphire is the most advanced, aesthetically pleasing, rugged digital thermostat to grace the marine air conditioning industry. The Sapphire's technology, features, and benefits surpass those offered by the industry's competition.

- ❄️ **SAPPHIRE BLUE LED DISPLAY**
- ❄️ **USER FRIENDLY PROGRAMMING**
- ❄️ **VIRTUALLY UNLIMITED CHOICE OF VIMAR® BEZELS**
- ❄️ **LARGEST FAN AND HEATER CIRCUIT RATING IN THE BUSINESS.**



## FEATURES

- Highest fan circuit rating in the industry – 12 AMPS
- Sapphire Blue LEDs with brightness control
- Dual voltage 115/230 capability
- Continuous room temperature display with one touch set point temperature display or change
- Maintains room temperature to within 1° of set point
- Remote temperature sensing bulb or faceplate air temperature sensor can be used
- Fahrenheit or Centigrade temperature display
- Automatic or six manually selected fan speeds
- High speed and low speed fan limit settings
- LED bar graph visually indicates fan speed
- Fan can be set to run continuous or to cycle on and off as the room reaches the set point
- Dehumidification mode controls room temperature and humidity level
- Non-volatile EEPROM memory; Controller will not lose settings in memory due to power interruptions
- Electric element heaters up to 12A can be operated directly from the controller

CUSTOMIZE YOUR VESSEL'S  
AIR CONDITIONING SYSTEM  
AND TAKE COMFORT IN



---

OUR SYSTEMS ENGINEERS  
ARE READY TO ASSIST YOU

CALL US AT  
+1 954-525-2500  
OR VISIT  
[WWW.AQUAAIR.COM](http://WWW.AQUAAIR.COM)



# AQUA AIR

MARINE AIR CONDITIONING SYSTEMS

