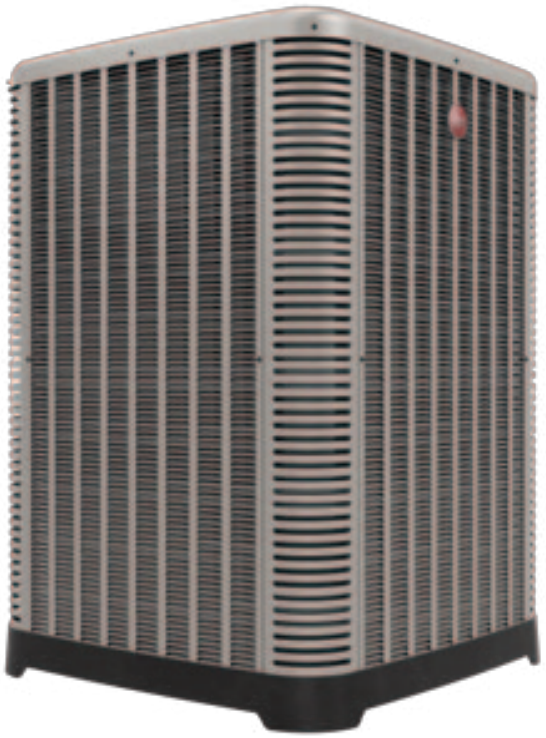
aquaLOGIC
Aquatic Design
Manufacturing & Integration

Aqua Logic Commercial Split *Mult-Temp*® Series Water Chillers 7.5 & 10 Ton



7.5 &10 Ton Outdoor unit



7.5 & 10 Ton Indoor Heat Exchnger

Aqua Logic, Inc.
2806 Gray Fox Rd. Monroe, NC 28110
www.AquaLogicInc.com Ph: 704.744.1391

aquaLOGIC
Aquatic Design
Manufacturing & Integration

7.5 & 10 Tons
MT-Split Series

Cold Plunge Pool Chiller - for saltwater and chlorine treated pools

Standard Features

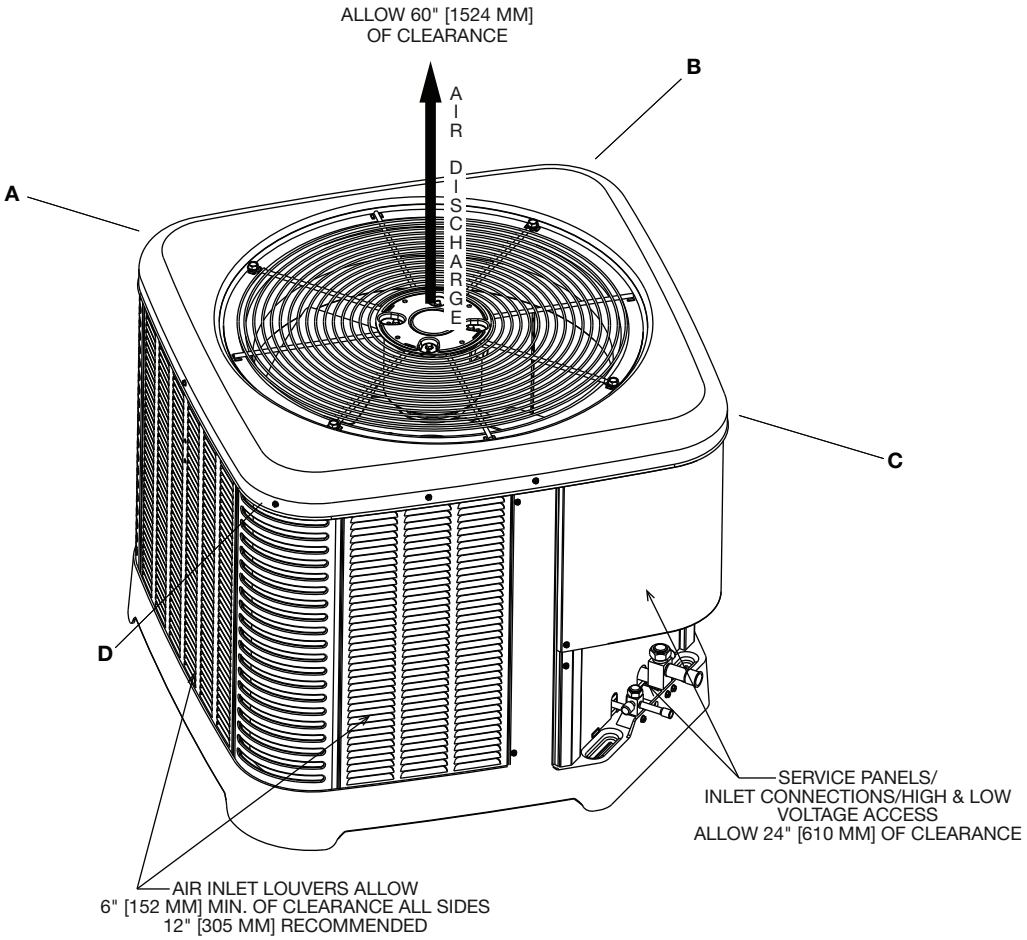
- U.L. Listed, and EPA Compliant, R-454b Low GWP eco-friendly refrigeration complies with latest codes.
- Single refrigeration circuit with separate and independent thermostat controls and safeties
- Air cooled, high ambient, vertical discharge, condensers for 125°F ambient
- Suitable for outdoor installation
- Weather proof electrical panel with single point power connection to distribution block
- Outdoor condensing unit with indoor heat exchanger package (requires a line set to be provided and installed by a refrigeration contractor to connect the two units together).
- 24 vac control circuit with component sequenced terminal strip for easy troubleshooting
- Single stage of compressor control with digital temperature controller
- Titanium tube / PVC heat exchanger for saltwater and chlorine pools.
- Stainless steel externally equalized thermal expansion valve with filter drier and sight glass
- DX Heat exchanger is constructed from sch 40 PVC with 2" NPS water in/outlet connections.
- Water flow safety switch locks out compressors on low flow to evaporator
- 304 Stainless steel heat exchanger stand.
- Factory charged with nitrogen for shipping.
- Warranty: One (1) years limited parts, five (5) years limited compressor warranty

Options & Accessories

- Low ambient fan control for operation down to 0°F.
- 316 Stainless steel stand and heat exchanger hardware.

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OUTDOOR CONDENSING UNIT DIMENSIONS AND WEIGHTS
7.5 & 10 TON (1 FAN) [22.9, 26.4 & 35.2 kW]



7.5 & 10 TON (1 FAN) [22.9, 26.4 & 35.2 kW]

MODEL	TOTAL WEIGHT LBS. [kg]	CORNER WEIGHTS, LBS. [kg]			
		A	B	C	D
RACY2090	383 [174]	104 [47]	82 [37]	107 [49]	89 [40]
RACY2119	411 [186]	112 [51]	88 [40]	115 [52]	96 [44]

[ ] Designates Metric Conversions

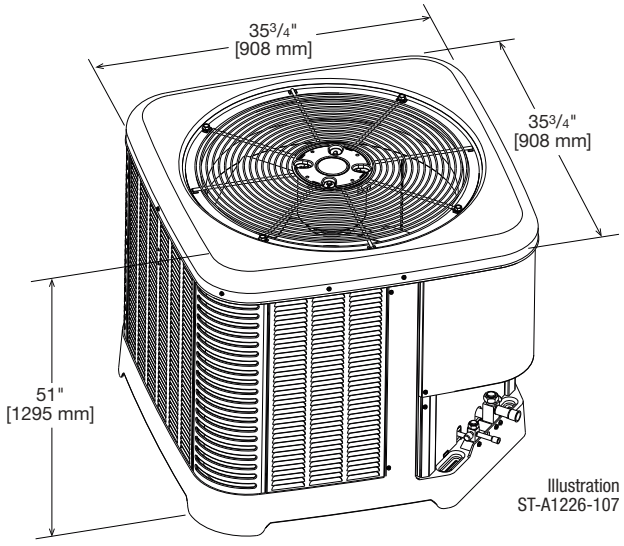


Illustration
ST-A1226-107

Aqua Logic, Inc. 2806 Gray Fox Rd. Monroe, NC 28110
www.AquaLogicInc.com Ph: 704.744.1391

GENERAL DATA

Model RACY2 Series Condensing Units	MT-9 7.5-ton 090CAZ	MT-9 7.5-ton 090DAZ	MT-10 10-ton 119CAZ	MT-10 10-ton 119DAZ
Cooling Performance[A]				
Gross Cooling Capacity Btu/h [kW]	90,000 [26.4]	90,000 [26.4]	120,000 [35.2]	120,000 [35.2]
EER	11.2	11.2	11.2	11.2
IEER[B]	14.8	14.8	14.8	14.8
Nominal CFM/AHRI Rated CFM [L/s]	2600/2580 [1227/1218]	2600/2580 [1227/1218]	4000/3900 [1888/1841]	4000/3900 [1888/1841]
AHRI Net Cooling Capacity Btu/h [kW]	85,500 [25.1]	85,500 [25.1]	112,000 [32.8]	112,000 [32.8]
Net Sensible Capacity Btu/h [kW]	61,500 [18.0]	61,500 [18.0]	86,000 [25.2]	86,000 [25.2]
Net Latent Capacity Btu/h [kW]	24,000 [7.0]	24,000 [7.0]	26,000 [7.6]	26,000 [7.6]
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[C]	86	86	86	86
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Diameter	0.375	0.375	0.375	0.375
Outer Face Area sq. ft. [sq. m]	31.8 [3.0]	31.8 [3.0]	31.8 [3.0]	31.8 [3.0]
Inner Face Area sq. ft. [sq. m]	29.6 [2.7]	29.6 [2.7]	29.6 [2.7]	29.6 [2.7]
Rows/FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Blades/Diameter in. [mm]	4/26	4/26	4/26 [660]	4/26 [660]
Drive Type/No. Speeds	ECM/1	ECM/1	ECM/1	ECM/1
CFM [L/s]	5,700 [2,690]	5,700 [2,690]	5,700 [2,690]	5,700 [2,690]
No. Motors/HP	1 at 1/2HP	1 at 3/4HP	1 at 1/2HP	1 at 3/4HP
Motor RPM	1100	1100	1100	1100
Refrigerant Charge Oz. [g]	338 [9,582]	338 [9,582]	338 [9,582]	338 [9,582]
Weights				
Net Weight lbs. [kg]	383 [174]	383 [174]	411 [186]	411 [186]
Ship Weight lbs. [kg]	403 [183]	403 [183]	431 [195]	431 [195]

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

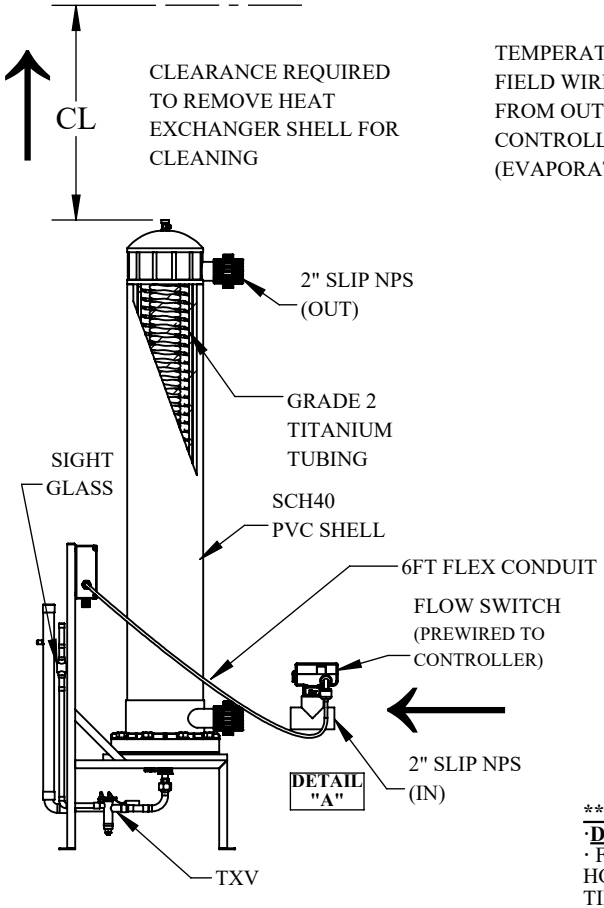
[ ] Designates Metric Conversions

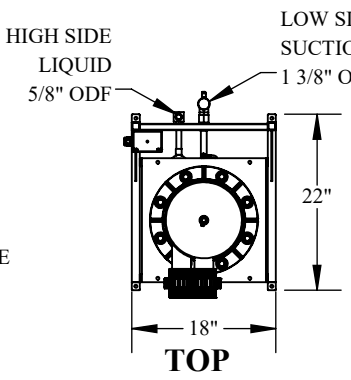
ELECTRICAL AND PHYSICAL DATA

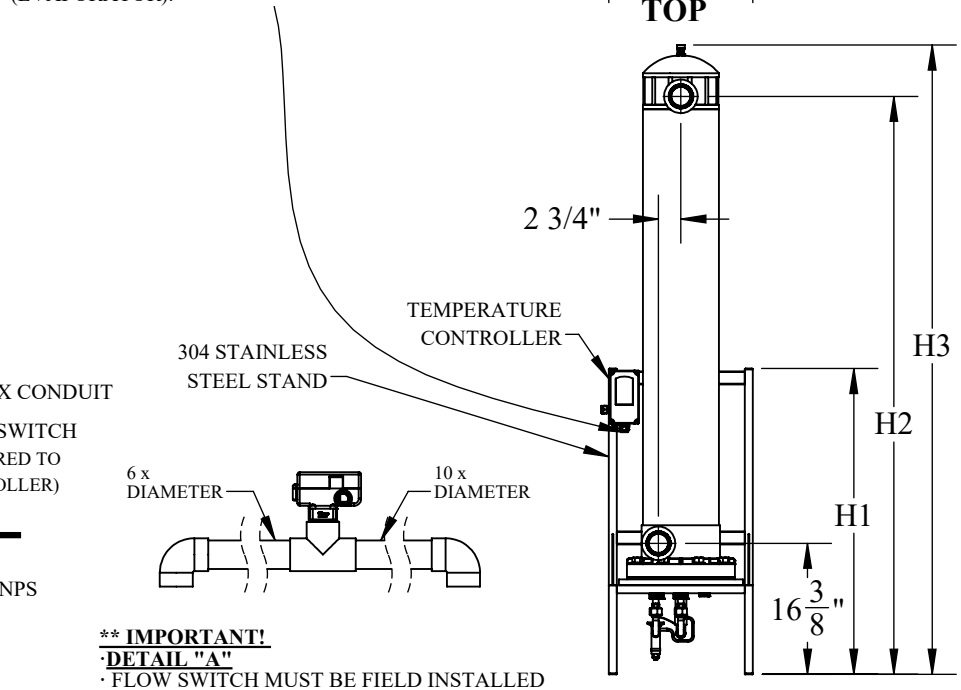
		7.5 ton 090CAZ	7.5 ton 090DAZ		10 ton 119CAZ	10 ton 119DAZ
Unit Information	Unit Operating Voltage Range	187-253	414-506		187-253	414-506
	Volts	208/230	460		208/230	460
	Minimum Circuit Ampacity	39/39	17/17		39/39	21
	Minimum Overcurrent Protection Device Size	45	20		60	30
	Maximum Overcurrent Protection Device Size	60	25		70	35
Compressor Motor	No.	1	1		1	1
	Volts	208/230	460		208/230	460
	Phase	3	3		3	3
	Amps (RLA), Comp. 1	26.3	11		26.5	14
	Amps (LRA), Comp. 1	178.5	95.3		255	123
Condenser Motor	No.	1	1		1	1
	Volts	208/230	460		208/230	460
	Phase	1	1		1	1
	HP	1/2	3/4		1/2	3/4
	Amps (FLA, each)	5.2	3		5.2	3
	Amps (LRA, each)	—	—		—	—

HX-65-DXV 7.5-TON & HX-121-DXV 10-TON HEAT EXCHANGERS SPECIFICATION SHEET

FOR INDOOR FRESH AND SALT WATER APPLICATIONS



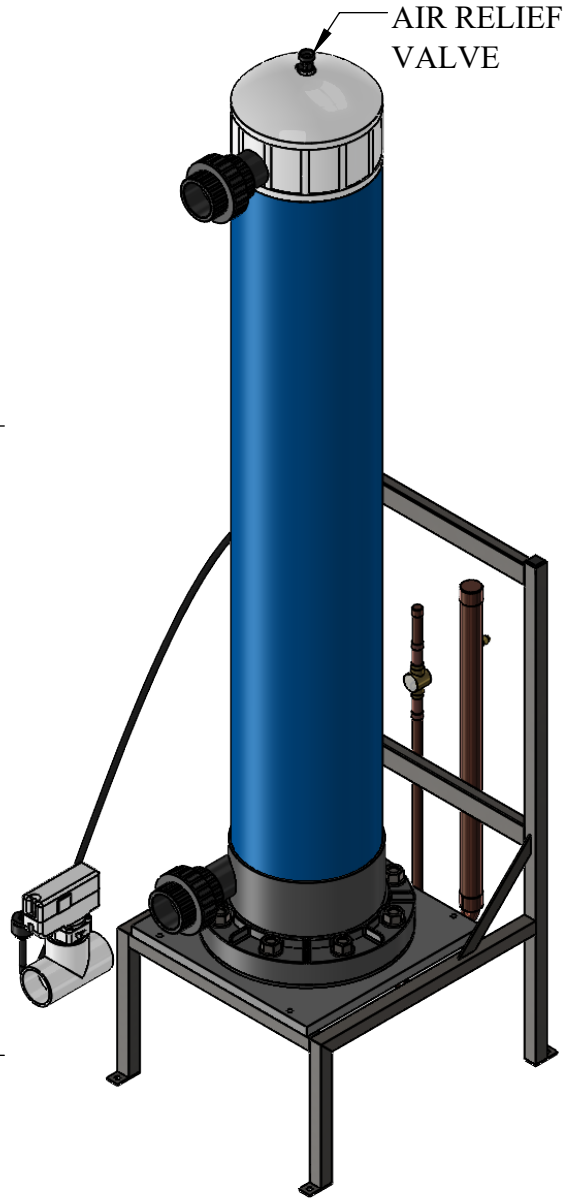




**** IMPORTANT!**

·DETAIL "A"

· FLOW SWITCH MUST BE FIELD INSTALLED HORIZONTALLY WITH NO LESS THAN 10 TIMES THE DIAMETER OF STRAIGHT PIPE ON THE INLET SIDE AND NO LESS THAN 6 TIMES THE DIAMETER ON THE OUTLET SIDE.



HEAT EXCHANGER SPECIFICATIONS							
MODEL NO.	NOMINAL TONS	NOMINAL BTUH / KW	WATER FLOW RATE (GPM)	H1	H2	H3	CL
HX-65-DXV	7.5	90,000 / 26.3	60 / 80	38 1/4"	56 3/4"	63"	48"
HX-121-DXV	10	120,000 / 35	60 / 80	38 1/4"	72 1/4"	78 3/4"	62"

OPTIONS:

· SCH 80 PVC MATERIAL SHELL CONSTRUCTION.

· 316 STAINLESS STEEL STAND & HARDWARE.

***NOTE:**

*NOMINAL BTUH CAN VARY, CONSULT AQUA LOGIC FOR ACCURATE SIZING FOR SPECIFIC APPLICATION.

· BTUH RATING IS BASED ON USE OF R-454B REFRIGERANT.

· FOR WATER TEMPERATURE 55°F AND BELOW WATER FLOW RATE MUST BE CLOSE TO THE MAXIMUM.

· FIELD WIRING: INSTALL 24V 18/3 AWG WIRE BETWEEN CONDENSER AND HEAT EXCHANGER.

· ALL DIMENSIONS ARE A APPROXIMATE AND MAY CHANGE AT ANY TIME.

aquaLOGIC
Chillers & Titanium Heat Exchangers
2806 GRAY FOX RD, MONROE, NC 28110

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DRAWING #	SHEET TITLE
	SPEC SHEET

DESCRIPTION				
7.5-TON & 10-TON HEAT EXCHANGERS FOR SINGLE CIRCUIT SYSTEMS.				
DRAWN BY	DATE	REVISION	SCALE	SHEET #
J. ROBINSON	7/8/2026	1.0	–	1 OF 1