aquaLOGIC
Chillers & Titanium
Heat Exchangers

Aqua Logic Inc. Commercial Split
Multi-Temp® Series Water chillers

10/2026

MT-SPLIT MT-SPLIT Series Water Chillers

Cooling Efficiencies up to: 11.2 EER/14.8 IEER
Nominal Sizes: 10,12.5,15 & 20 Tons [35.2, 44.0, 52.7 & 70.3 kW]
Cooling Capacities: 120.0k Btu/h to 240.0k Btu/h
Refrigerant Type: R-454B

Designed for freshwater or saltwater applications.



Outdoor 10 thru 20 Ton Rheem Condensing units.



Indoor HX-DX Heat Exchanger Package

ISO 9001:2015

c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Large AC
AHRI Standard 340/360
Certification applies only when the complete system is listed with AHRI.

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

aquaLOGIC
Chillers & Titanium
Heat Exchangers

10,12,10, 15 & 20 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.

Aqua Logic, Inc.
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GENERAL DATA 10-ton

Model Rheem RACY2 Series Condensing units	120CAZ	120DAZ	120YAZ
Cooling Performance[A]			
Gross Cooling Capacity Btu/h [kW]	120,000 [35.2]	120,000 [35.2]	120,000 [35.2]
EER	11.2	11.2	11.2
IEER[B]	14.8	14.8	14.8
Nominal CFM/AHRI Rated CFM [L/s]	4000/3900 [1888/1841]	4000/3900 [1888/1841]	4000/3900 [1888/1841]
AHRI Net Cooling Capacity Btu/h [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu/h [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Latent Capacity Btu/h [kW]	28,000 [8.2]	28,000 [8.2]	28,000 [8.2]
Compressor			
No./Type	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[C]	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Diameter	0.375	0.375	0.375
Outer Face Area sq. ft. [sq. m]	16.4 [1.5]	16.4 [1.5]	16.4 [1.5]
Inner Face Area sq. ft. [sq. m]	16.4 [1.5]	16.4 [1.5]	16.4 [1.5]
Rows/FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Outdoor Fan - Type	Propeller	Propeller	Propeller
No. Blades/Diameter in. [mm]	4/26 [660]	4/26 [660]	4/26 [660]
Drive Type/No. Speeds	ECM/2	ECM/2	PSC/2
CFM [L/s]	11,400 [5380]	11,400 [5380]	11,400 [5380]
No. Motors/HP	2 at 1/2HP	2 at 3/4HP	2 at 1/2HP
Motor RPM	1100	1100	1100
Refrigerant Charge Oz. [g]	460 [13,041]	460 [13,041]	460 [13,041]
Weights			
Net Weight lbs. [kg]	565 [256]	565 [256]	565 [256]
Ship Weight lbs. [kg]	585 [265]	585 [265]	585 [265]

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

GENERAL DATA 12-ton

Model Rheem RACY2 Series Condensing units	150CAZ	150DAZ	150YAZ
Cooling Performance[A]			
Gross Cooling Capacity Btu/h [kW]	150,000 [44.0]	150,000 [44.0]	150,000 [44.0]
EER	11.0	11.0	11.0
IEER[B]	14.2	14.2	14.2
Nominal CFM/AHRI Rated CFM [L/s]	4500/4350 [2124/2053]	4500/4350 [2124/2053]	4500/4350 [2124/2053]
AHRI Net Cooling Capacity Btu/h [kW]	142,500 [42.0]	142,500 [42.0]	142,500 [42.0]
Net Sensible Capacity Btu/h [kW]	106,000 [31.1]	106,000 [31.1]	106,000 [31.1]
Net Latent Capacity Btu/h [kW]	36,500 [10.7]	36,500 [10.7]	36,500 [10.7]
Compressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)[C]	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Diameter	0.375	0.375	0.375
Outer Face Area sq. ft. [sq. m]	16.4 [1.5]	16.4 [1.5]	16.4 [1.5]
Inner Face Area sq. ft. [sq. m]	16.4 [1.5]	16.4 [1.5]	16.4 [1.5]
Rows/FPI [FPcm]	2 / 22 [56]	2 / 22 [56]	2 / 22 [56]
Outdoor Fan - Type	Propeller	Propeller	Propeller
No. Blades/Diameter in. [mm]	4/26 [660]	4/26 [660]	4/26 [660]
Drive Type/No. Speeds	ECM/1	ECM/1	PSC/1
CFM [L/s]	11,400 [5380]	11,400 [5380]	11,400 [5380]
No. Motors/HP	2 at 1/2HP	2 at 3/4HP	2 at 1/2HP
Motor RPM	1100	1100	1100
Refrigerant Charge Oz. [g]	372 [10,546]	372 [10,546]	372 [10,546]
Weights			
Net Weight lbs. [kg]	647 [293]	647 [293]	647 [293]
Ship Weight lbs. [kg]	667 [303]	667 [303]	667 [303]

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

GENERAL DATA 15-ton

Model (-)ACY2 Series	180CAZ	180DAZ	180YAZ
Cooling Performance[A]			
Gross Cooling Capacity Btu [kW]	180,000 [52.8]	180,000 [52.8]	180,000 [52.8]
EER	11.0	11.0	11.0
IEER[B]	14.2	14.2	14.2
Nominal CFM/AHRI Rated CFM [L/s]	5400/5200	5400/5200	5400/5200
AHRI Net Cooling Capacity Btu [kW]	171,000 [50.1]	171,000 [50.1]	171,000 [50.1]
Net Sensible Capacity Btu [kW]	125,000 [36.6]	125,000 [36.6]	125,000 [36.6]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Compressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)[C]	90	90	90
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Diameter	0.375	0.375	0.375
Outer Face Area sq. ft. [sq. m]	30.3 [2.8]	30.3 [2.8]	30.3 [2.8]
Inner Face Area sq. ft. [sq. m]	30.3 [2.8]	30.3 [2.8]	30.3 [2.8]
Rows / FPI [FPcm]	3 / 18 [46]	3 / 18 [46]	3 / 18 [46]
Outdoor Fan - Type	Propeller	Propeller	Propeller
No. Blades/Diameter in. [mm]	4/24	4/24	4/24
Drive Type/No. Speeds	ECM/1	ECM/1	PSC/1
CFM [L/s]	12,000 [5663]	12,000 [5663]	12,000 [5663]
No. Motors/HP	3 at 1/2HP	3 at 3/4HP	3 at 1/2HP
Motor RPM	1,100	1,100	1,100
Refrigerant Charge Oz. [g]	656.5 [18,611]	656.5 [18,611]	656.5 [18,611]
Weights			
Net Weight lbs. [kg]	832 [337]	832 [337]	832 [337]
Ship Weight lbs. [kg]	852 [386]	852 [386]	852 [386]

GENERAL DATA 20-ton

Model (-)ACY2 Series	240CAZ	240DAZ	240YAZ
Cooling Performance[A]			
Gross Cooling Capacity Btu [kW]	240,000 [70.3]	240,000 [70.3]	240,000 [70.3]
EER	10.0	10.0	10.0
IEER[B]	13.2	13.2	13.2
Nominal CFM/AHRI Rated CFM [L/s]	6800/6650 [3209/3138]	6800/6650 [3209/3138]	6800/6650 [3209/3138]
AHRI Net Cooling Capacity Btu [kW]	240,000 [70.3]	240,000 [70.3]	240,000 [70.3]
Net Sensible Capacity Btu [kW]	165,000 [48.4]	165,000 [48.4]	165,000 [48.4]
Net Latent Capacity Btu [kW]	75,000 [22.0]	75,000 [22.0]	75,000 [22.0]
Compressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)[C]	90	90	90
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Diameter	0.375	0.375	0.375
Outer Face Area sq. ft. [sq. m]	30.3 [2.8]	30.3 [2.8]	30.3 [2.8]
Inner Face Area sq. ft. [sq. m]	30.3 [2.8]	30.3 [2.8]	30.3 [2.8]
Rows / FPI [FPcm]	3 / 18 [46]	3 / 18 [46]	3 / 18 [46]
Outdoor Fan - Type	Propeller	Propeller	Propeller
No. Blades/Diameter in. [mm]	4/24 [609]	4/24 [609]	4/24 [609]
Drive Type/No. Speeds	ECM/1	ECM/1	PSC/1
CFM [L/s]	12,000 [5663]	12,000 [5663]	12,000 [5663]
No. Motors/HP	3 at 1/2HP	3 at 3/4HP	3 at 1/2HP
Motor RPM	1100	1100	1100
Refrigerant Charge Oz. [g]	587.5 [16,655]	587.5 [16,655]	587.5 [16,655]
Weights			
Net Weight lbs. [kg]	926 [420]	926 [420]	926 [420]
Ship Weight lbs. [kg]	946 [429]	946 [429]	946 [429]

ELECTRICAL AND PHYSICAL DATA

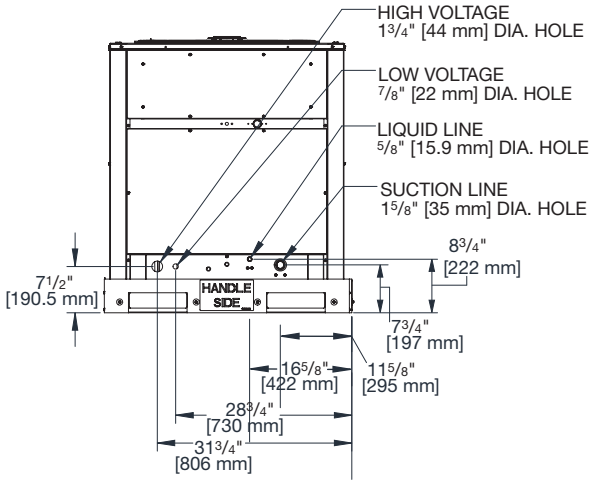
ELECTRICAL DATA – RACY2 SERIES

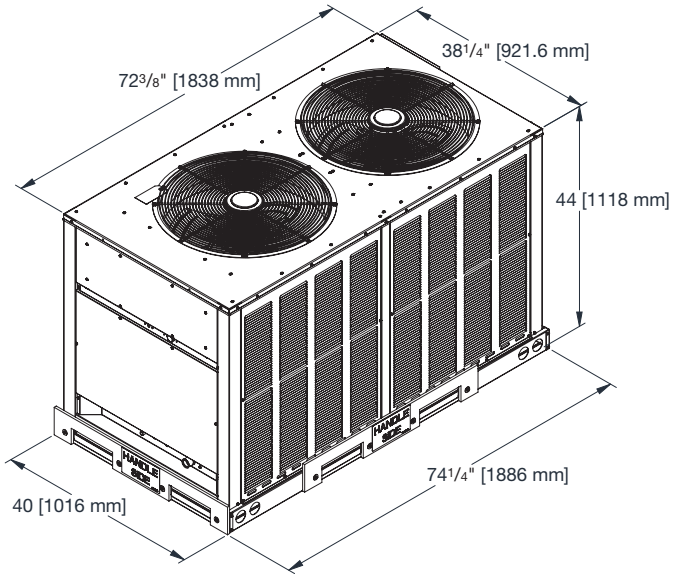
		120CAZ	120DAZ	120YAZ	150CAZ	150DAZ	150YAZ
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610	187-253	414-506	541-610
	Volts	208/230	460	575	208/230	460	575
	Minimum Circuit Ampacity	44/44	24	17	61/61	26	19
	Minimum Overcurrent Protection Device Size	60	30	20	70	30	20
	Maximum Overcurrent Protection Device Size	70	35	25	80	30	25
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	460	575	208/230	460	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	26.5	14	11.5	44.8	18.4	14.4
	Amps (LRA), Comp. 1	255	123	93.7	332.4	149.2	108
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	460	575	208/230	460	575
	Phase	1	1	1	1	1	1
	HP	1/2	3/4	1/2	1/2	3/4	1/2
	Amps (FLA, each)	5.2	3	1	5.2	3	1
	Amps (LRA, each)	—	—	2.2	—	—	2.2

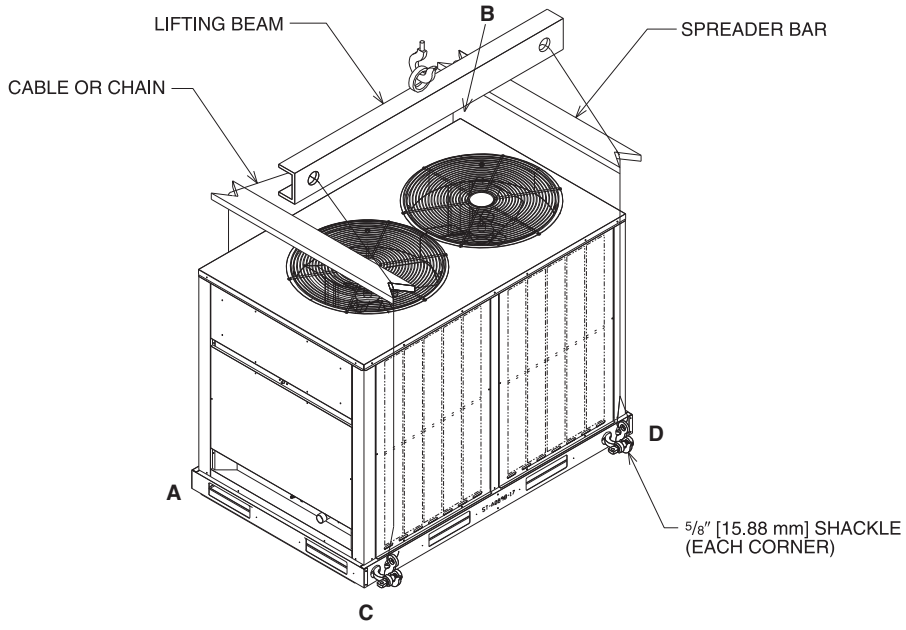
ELECTRICAL DATA – RACY2 SERIES

		180CAZ	180DAZ	180YAZ	240CAZ	240DAZ	240YAZ
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610	187-253	414-506	541-610
	Volts	208/230	460	575	208/230	460	575
	Minimum Circuit Ampacity	78/78	35	24	91/91	44	33
	Minimum Overcurrent Protection Device Size	90	40	30	100	50	40
	Maximum Overcurrent Protection Device Size	100	45	30	110	50	40
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	460	575	208/230	460	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	55.4	23	18	66.6	30.8	25.8
	Amps (LRA), Comp. 1	357	206	156	510	280	215.2
Condenser Motor	No.	3	3	3	3	3	3
	Volts	208/230	460	575	208/230	460	575
	Phase	1	1	1	1	1	1
	HP	1/2	3/4	1/2	1/2	3/4	1/2
	Amps (FLA, each)	5.2	3	1	5.2	3	1
	Amps (LRA, each)	—	—	2.2	—	—	2.2

UNIT DIMENSIONS AND WEIGHTS
10 (2 FAN) & 12.5 TON [35.2 & 44.0 kW]





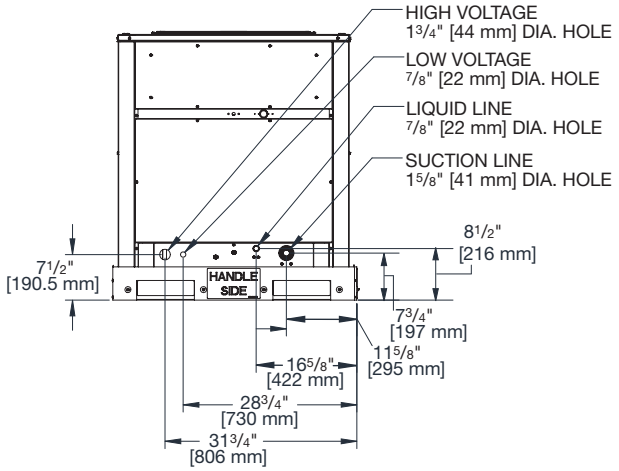


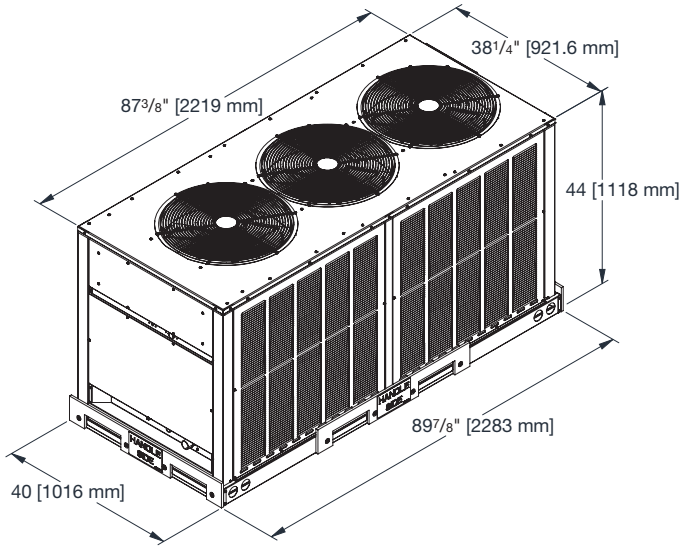
10 (2 FAN) & 12.5 TON [35.2 & 44.0 kW]

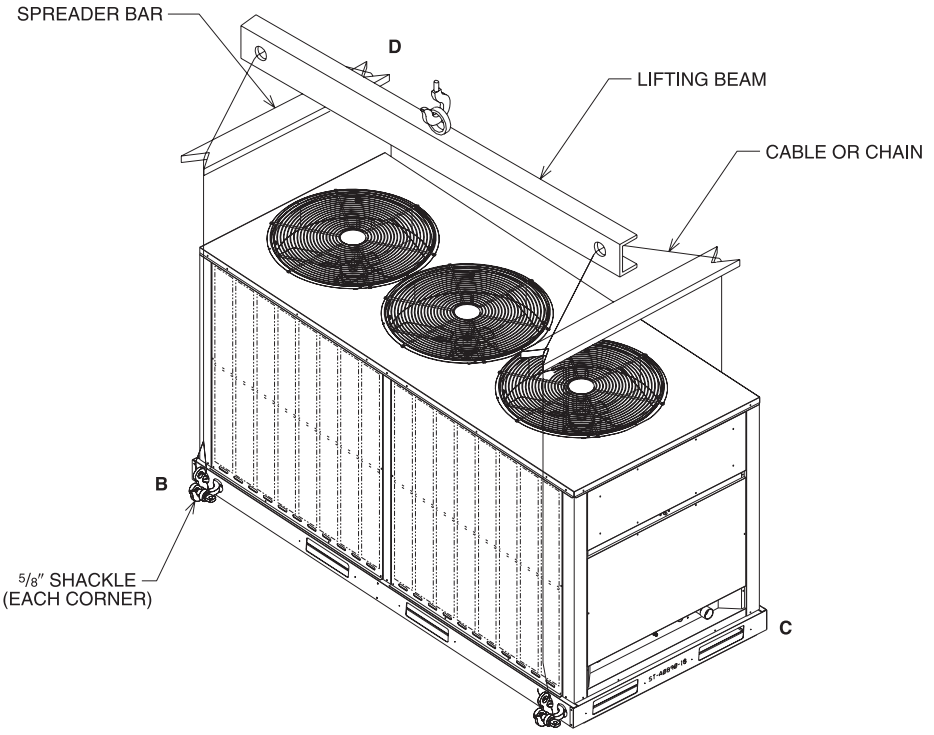
MODEL	TOTAL WEIGHT LBS. [kg]	CORNER WEIGHTS, LBS. [kg]			
		A	B	C	D
RACY2120	565 [256]	97 [44]	181 [82]	167 [76]	73 [33]
RACY2150	647 [293]	189 [86]	157 [71]	161 [73]	139 [63]

[ ] Designates Metric Conversions

UNIT DIMENSIONS AND WEIGHTS 15 & 20 TON [52.8 & 70.3 kW]







15 & 20 TON [52.7 & 70.3 kW]

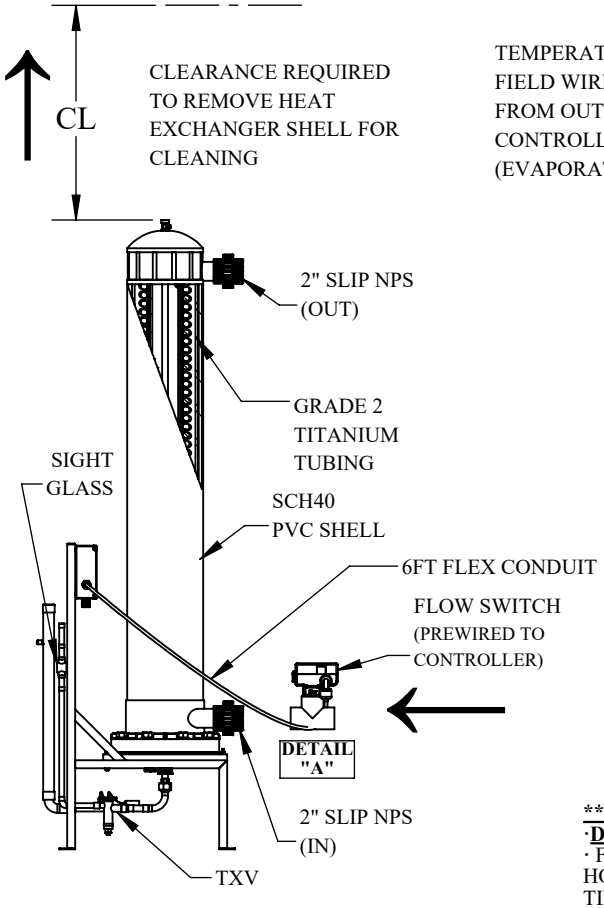
CORNER WEIGHTS (LBS.) [kg]

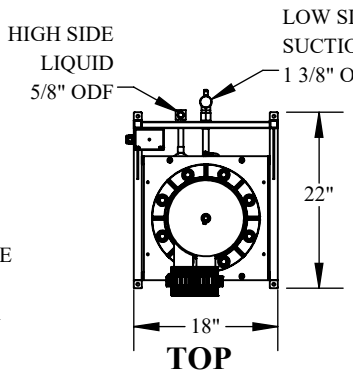
MODEL	TOTAL WEIGHT LBS. [kg]	CORNER WEIGHTS, LBS. [kg]			
		A	B	C	D
RACY2180	832 [377]	240 [109]	183 [83]	167 [76]	242 [110]
RACY2240	926 [420]	308 [140]	128 [58]	161 [73]	328 [149]

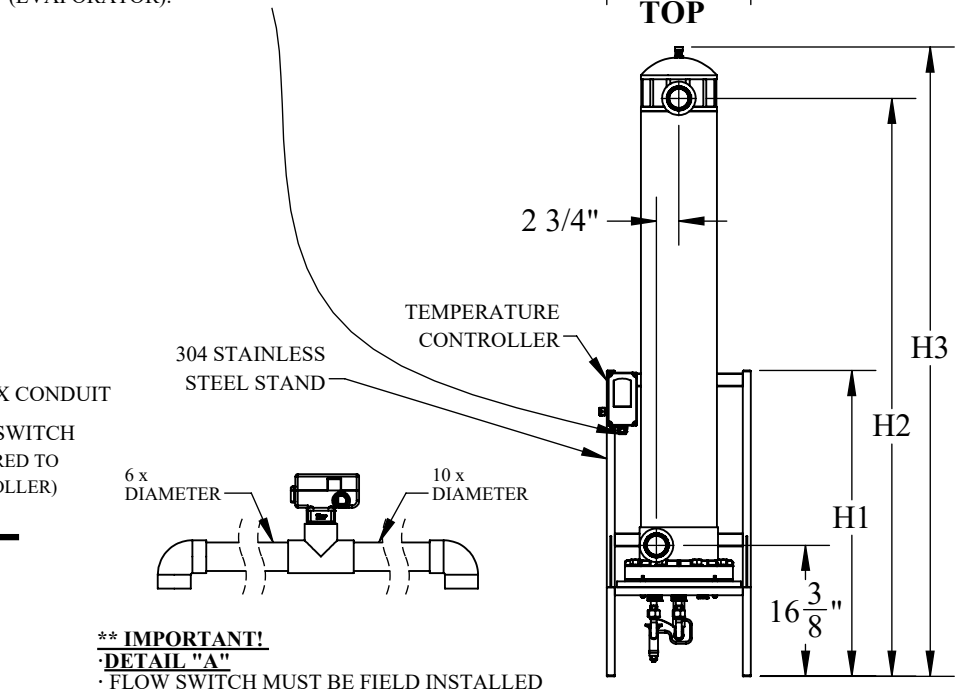
[ ] Designates Metric Conversions

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

FOR INDOOR FRESH AND SALT WATER APPLICATIONS



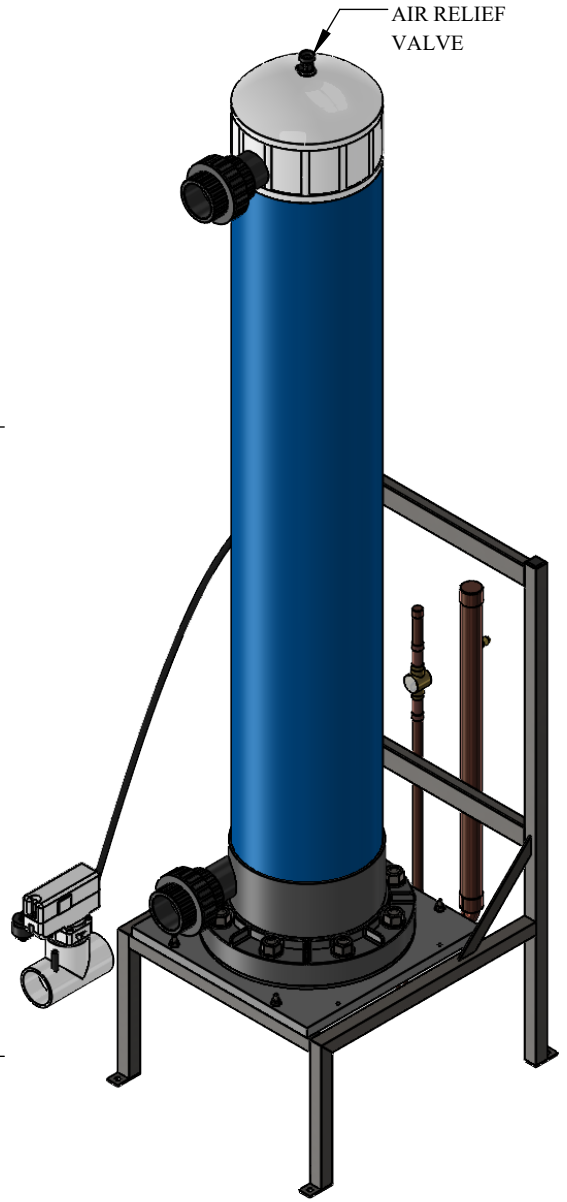




**** IMPORTANT!**

·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.

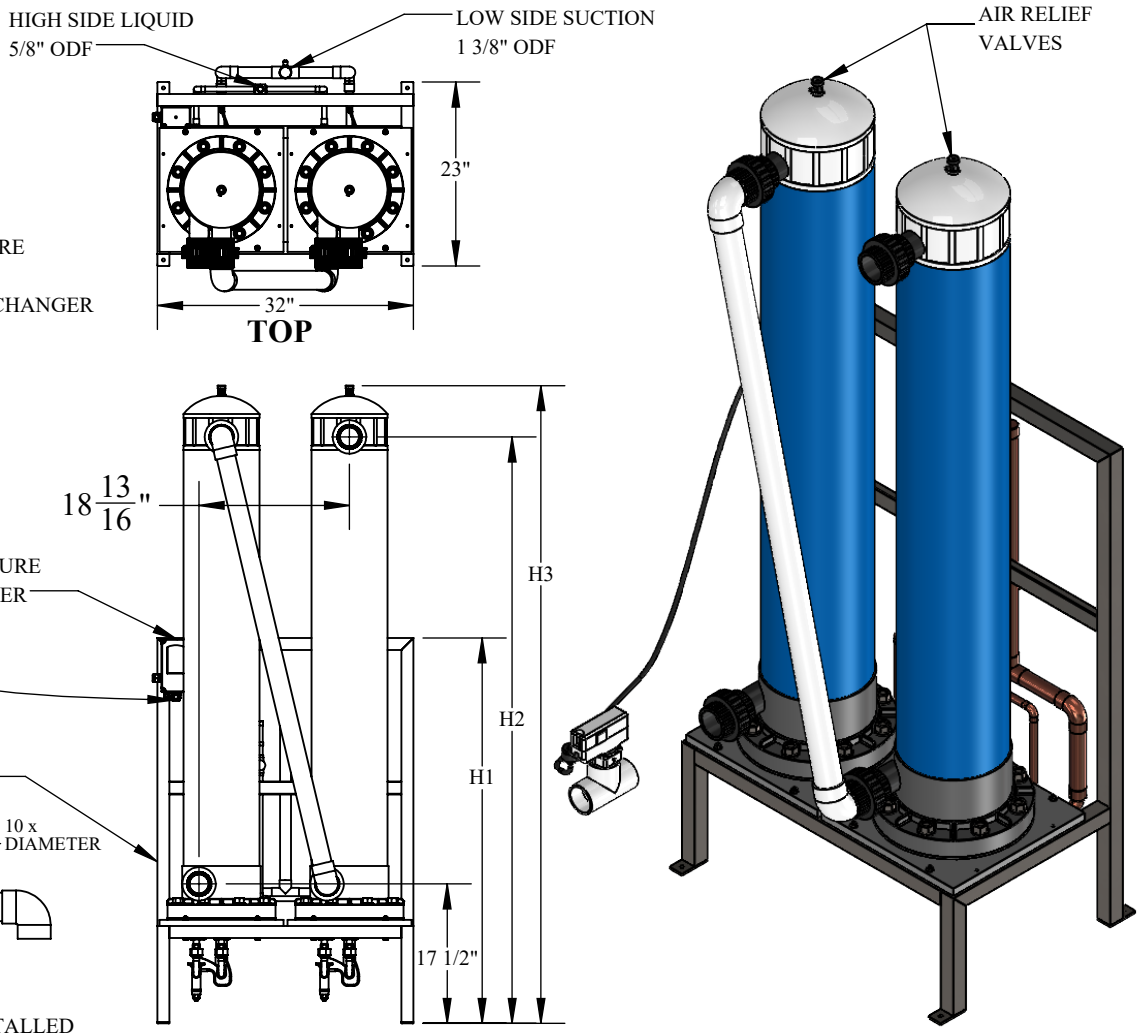
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2806 GRAY FOX RD, MONROE, NC 28110

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DRAWING #	SHEET TITLE			
	SPEC SHEET			
DESCRIPTION: 7.5-TON & 10-TON HEAT EXCHANGERS FOR SINGLE CIRCUIT SYSTEMS.				
DRAWN BY: J. ROBINSON	DATE: 7/23/2026	REVISION: 1.0	SCALE: –	SHEET #: 1 OF 1

HX-65-2-DXV 15-TON & HX-121-2-DXV 20-TON HEAT EXCHANGERS SPECIFICATIONS SHEET (SINGLE CIRCUIT)

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-65-2-DXV	12 & 15	180,000 / 52.6	60 / 80	48 1/4"	57 3/4"	64 1/4"	48"
HX-121-2-DXV	20	240,000 / 70	60 / 80	48 1/4"	73 1/4"	79 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.

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

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DRAWING #	SHEET TITLE
	SPEC SHEET

DESCRIPTION				
15-TON & 20-TON HEAT EXCHANGERS FOR SINGLE CIRCUIT SYSTEMS.				
DRAWN BY	DATE	REVISION	SCALE	SHEET #
J. ROBINSON	7/10/2026	1.0	–	1 OF 1