

BY JOHNSON CONTROLS

CHILLER REPLACEMENT CONTRACTORS GUIDE

**YCAL - 15 to 65 TONS
AIR-COOLED SCROLL CHILLER**



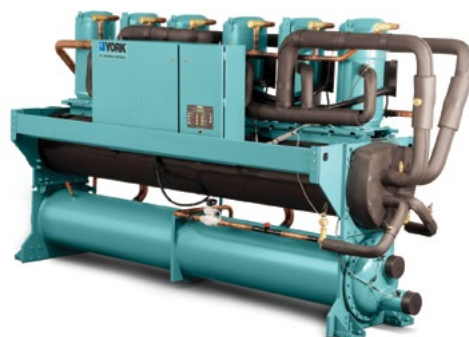
**YLAA - 55 to 175 TONS
AIR-COOLED SCROLL CHILLER**



**YVAA - 150 to 500 TONS
AIR-COOLED SCREW CHILLER**



**YCWL - 50 to 200 TONS
WATER-COOLED SCROLL CHILLER**





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**YCAL – 15 to 65 TONS
AIR-COOLED SCROLL CHILLER**



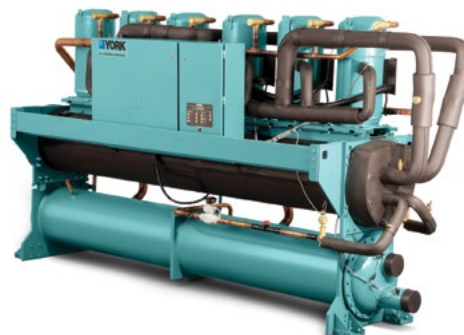
**YLAA – 55 to 175 TONS
AIR-COOLED SCROLL CHILLER**



**YVAA – 150 to 500 TONS
AIR-COOLED SCREW CHILLER**



**YCWL – 50 to 200 TONS
WATER-COOLED SCROLL CHILLER**



AIR-COOLED

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**YCWL
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**YCWL
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In-stock Chillers Ready for Quick Shipment When You Need Cooling Fast!

Complete packages for quick **'Plug & Play'** installation
Unit Benefits

Air-cooled Scroll Chillers



Air-cooled chillers using scroll-compressor technology ranging from 15 to 175 tons. Standard features include:

- Voltages: 200V, 230V, 380V, 460V, 380-415V/50Hz, 575V
- Chilled-water supply range: 40 - 55°F; brine supply to 10°F
- Ambient operation between 0 - 115°F
- Single-point power connection reduces wiring costs
- Non-fused disconnect switch simplifies installation and servicing
- Control transformer eliminates separate control wiring
- Micro-computer control panel is very user-friendly
- Low-noise fans reduce radiated sound
- Victaulic-grooved water connections reduce installation costs
- Complies with ASHRAE Standard 90.1 on energy efficiency
- Options are available upon request

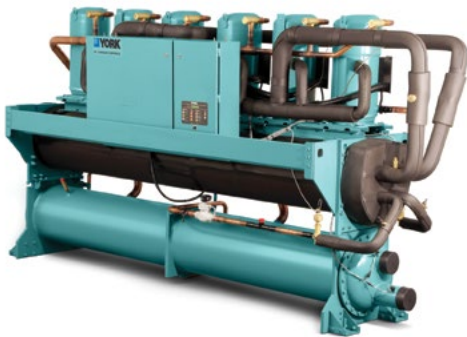
Air-cooled Screw Chillers



Air-cooled chillers using YORK® VSD Screw technology ranging from 150 to 500 tons. Standard features include:

- Voltages: 200V, 230V, 380V, 400V, 460V, 380-415V/50Hz, 575V
- Chilled-water supply range: 40 - 55°F; brine supply to 15°F
- Ambient operation between 0 - 125°F
- Single-point power connection reduces wiring costs
- Non-fused disconnect switch simplifies installation and servicing
- Control transformer eliminates separate control wiring
- VSD increases reliability at start-up and shut-down
- Micro-computer control panel is very user-friendly
- Low-noise fans reduce radiated sound
- Victaulic-grooved water connections reduce installation costs
- Complies with ASHRAE Standard 90.1 on energy efficiency
- Options are available upon request

Water-cooled Scroll Chillers



Water-cooled chillers using scroll-compressor technology ranging from 50 to 200 tons. Standard features include:

- Voltages: 200V, 230V, 380V, 460V, 380-415V/50Hz, 575V
- Chilled-water supply range: 40 - 55°F; brine supply to 15°F
- Single-point power connection reduces wiring costs
- Non-fused disconnect switch simplifies installation and servicing
- Control transformer eliminates separate control wiring
- Micro-computer control panel is very user-friendly
- Complies with ASHRAE Standard 90.1 on energy efficiency
- Non-reversing heat pump function (leaving condenser temperature control)
- Options are available upon request

Need temporary cooling?

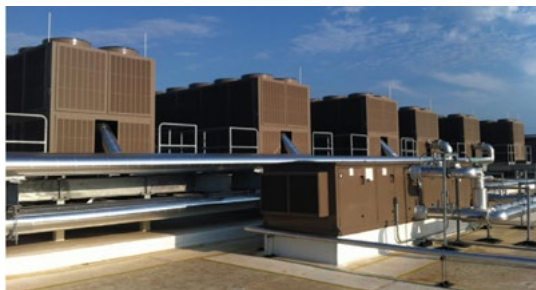


If you need cooling while we are customizing your unit, Johnson Controls can provide a rental unit. We make available a wide range of products including chillers, rooftop units, air handlers, towers and peripheral equipment. Our service includes delivery, installation, start-up, maintenance, and financing. If interested in this option please contact the Johnson Controls Rental Department at:

1-800-JCI-RNTL (1800-524-7685)

www.johnsoncontrols.com/rental

Need more than the standard unit?



If you need a chiller quickly but need some customization of features, Johnson Controls can make it happen.

Customization features include:

- Suction-pressure readouts
- Service-Isolation valves
- Hot gas by-pass
- Brine cooling as low as 10°F
- Functional witness testing
- Hydronics package
- Epoxy Coated Cond. Coils
- Options are available upon request

Need Replacement Parts?



Your brand HVAC parts source for air-cooled, water-cooled, and absorption chillers. We are able to ship out the HVAC parts that you need as soon as possible. If you need items urgently (for a hospital, school or other critical application) we can prioritize this requirement and work with our supplier for expediting. If you have a need for replacement parts please contact the Johnson Controls Parts Department at :

1-800-932-1701

Ways to Reduce Your Risk, Expand Your Business and Increase Your Profits

OPTION I

Use Variable Speed Technology to Create Chiller Replacement Opportunities

Compressor motor control via a variable frequency drive allows you as the installing contractor to give your customer more tonnage without changing the electrical power supply. Also, emergency generator size can be reduced when feeding chillers with variable speed compressors.

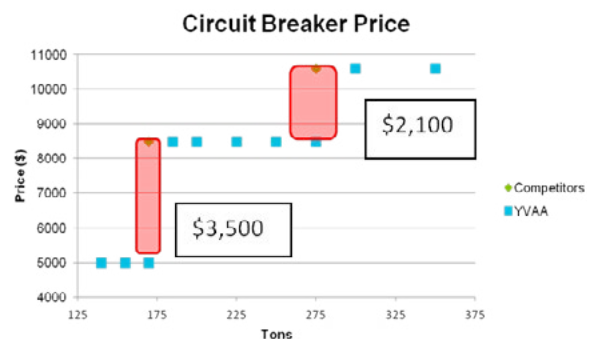
For Example: Your customer has an existing chiller that produces 165 tons at ARI conditions. The MCA for this chiller is 374 amps and the existing wire and breaker size was installed to meet this MCA. Your customer is short on capacity during peak hours of the day. YORK has an YVAA0248CEV that produces 225 tons with an MCA of 374. This will give you an extra 61 tons without changing out the wires or breakers.

On the other hand, if your customer doesn't have a need for additional capacity, and the installation requires electrical power component upgrades, the first cost savings when using smaller breakers, wire and conduit is substantial.

\$310 Average Wire Savings



Potential For a Smaller Circuit Breaker Frame Size



OPTION II

Use Energy Performance to Differentiate Your Replacement Offering

The YORK YVAA variable speed drive air-cooled chiller allows you as the installing contractor to offer your customers a replacement alternative that is as much as 25% more efficient than existing chillers.

For Example: Your customer wants to replace an existing 350-ton chiller. You as the installing contractor can offer either a standard efficiency chiller or the YORK optimized variable speed chiller. The optimized offering will save the customer over \$17,000/year*. With this level of annual savings, you can offer your customer a \$21,250 additive alternate with a 1.25 year simple payback. The price premium for the optimized offering is \$7,000, which allows you to capture \$14,250 of additional gross profit.

*see the next page for the Average Energy Cost (AEC) calculation

Annual Savings / Average Energy Cost (AEC) Calculation

Input Variables:

IPLV = Integrated Part Load Value (kW/TON) = (12) / (IPLV EER)

FLT = Full Load Tons (tons)

ACL = Average Chiller Load (tons) = (FLT) x (0.58)

RATE = Commercial Energy Cost (\$/kWh)

OH = Average Chiller Operating Hours (hrs)

Output Functions:

AEC = (IPLV) x (ACL) x (RATE) x (OH)

Annual Savings = $AEC_{\text{Existing or Base Bid}} - AEC_{\text{New}}$

Example

Input Variables:

$IPLV_{\text{Existing or Base Bid}} = 15.4 \text{ EER}$

$IPLV_{\text{New}} = 19.0 \text{ EER}$

$FLT_{\text{Existing or Base Bid}} = 350 \text{ tons}$

$FLT_{\text{New}} = 350 \text{ tons}$

RATE = \$0.1016/kWh

OH = 5,000 hrs

Calculations:

$AEC_{\text{Existing or Base Bid}} = (IPLV) \times (ACL) \times (RATE) \times (OH)$

$AEC_{\text{Existing or Base Bid}} = (12 / (IPLV \text{ EER})) \times ((FLT) \times (0.58)) \times (RATE) \times (OH)$

$AEC_{\text{Existing or Base Bid}} = (12 / 15.4 \text{ EER}) \times (350 \text{ tons} \times 0.58) \times (\$0.1016/\text{kWh}) \times (5,000 \text{ hrs})$

$AEC_{\text{Existing or Base Bid}} = \$80,356.36$

$AEC_{\text{New}} = (IPLV) \times (ACL) \times (RATE) \times (OH)$

$AEC_{\text{New}} = (12 / (IPLV \text{ EER})) \times ((FLT) \times (0.58)) \times (RATE) \times (OH)$

$AEC_{\text{New}} = (12 / 19.0 \text{ EER}) \times (350 \text{ tons} \times 0.58) \times (\$0.1016/\text{kWh}) \times (5,000 \text{ hrs})$

$AEC_{\text{New}} = \$65,130.95$

Annual Savings = $AEC_{\text{Existing or Base Bid}} - AEC_{\text{New}}$

Annual Savings = \$80,356.36 - \$65,130.95

Annual Savings = \$15,225.41 / year

YCAL
15 to 65 Tons
Air-Cooled Scroll Chiller



YCAL RIGGING

WARNING — *To ensure warranty coverage, this equipment must be commissioned and serviced by an authorized Johnson Controls Service Mechanic or a qualified service person experienced in chiller installation. Installation must comply with all applicable codes, particularly in regard to electrical wiring and other safety elements such as relief valves, HP cutout settings, design working pressures, and ventilation requirements consistent with the amount and type of refrigerant charge. Lethal voltages exist within the control panels. Before servicing, open and tag all disconnect switches.*

Installation Check List

The following items must be checked before placing the units in operation.

1. Inspect the unit for shipping damage.
2. Rig Unit using spreader bars.
3. Open the unit only to install water piping system. Do not remove protective covers from water connections until piping is ready for attachment. Check water piping to ensure cleanliness.
4. Pipe unit using good piping practice (see ASHRAE handbook section 215 and 195).
5. Check to see that the unit is installed and operated within limitations (Refer to Operational and Voltage Limitations located in Section 1 of the YCAL Operations and Maintenance Guide [Form 150.62-NM8]).

The following pages outline detailed procedures to be followed to install and startup the chiller.

Handling

These units are shipped as completely assembled units containing full operating charge, and care should be taken to avoid damage due to rough handling.

WARNING — *The unit should be lifted by inserting hooks through the holes provided in the unit base rails. Spreader bars should be used to avoid crushing the unit frame rails with lifting chains.*

Inspection

Immediately upon receiving the unit, it should be inspected for possible damage which may have occurred during transit. If damage is evident, it should be noted in the carrier's freight bill. A written request for inspection by the carrier's agent should be made at once. See *Instruction manual, [Form 50.15-NM]* for more information and details.

Location and Clearances

These units are designed for outdoor installations on ground level, rooftop, or beside a building. Location should be selected for minimum sun exposure and to insure adequate supply of fresh air for the condenser. The units must be installed with sufficient clearances for air entrance to the condenser coil, for air discharge away from the condenser, and for servicing access.

In installations where winter operation is intended and snow accumulations are expected, additional height must be provided to ensure normal condenser air flow.

Clearances are listed under Dimensions in Section 1 of the YCAL Operations and Maintenance Guide form [Form 150.62-NM8].

EXAMPLE OF PROPER LIFTING



AIR-COOLED SCROLL CHILLER

YCAL Style E - 15 to 65 TONS (R-410A)

BENEFITS

- Maintenance free, hermetic scroll compressor utilizes fewer moving parts to minimize breakdown
- Components and circuitry designed for lower minimum circuit ampacities (MCA) to allow use of smaller wire for reduced power wiring costs
- Electronic, digital-based controls ensure reliable, solid-state monitoring and control
- Units ship with full refrigerant charge and undergo factory pressure and operational testing to minimize field setup time
- Two refrigerant circuits on units over 35 tons allows redundant operation
- Industry's only 18-month air-cooled warranty that covers all parts
- Wide range of options to fit any design requirement. (Acoustical treatments, Hydrokit packages, etc)

UPGRADE OPTIONS

- Remote Cooler
- Power Options --> 200, 230, 380, 460, 575 (Not available on all models, refer to [Engineering Guide](#)):
- Single Point Terminal Block, Non-fused Disconnect Switch, Circuit Breaker, Control Transformer
- Control Options:
 - Low Ambient Kit extends operating range to 0 deg. F from +25 deg. F
- Discharge Pressure Transducers and Readout Capability (standard) allows unit to sense and display discharge pressure
- Low Temperature Brine for chilling below 30 deg. F
- Motor Current Module allows monitoring of compressor motor current, provides extra protection against compressor reverse rotation, phase-loss and phase imbalance
- Hot Gas Bypass for continuous, stable operation at capacities as low as 5% capacity
- Service Isolation Valve - suction and discharge (ball type) isolation valves are added to unit per system; includes a system high pressure relief valve in compliance with ASHRAE 15
- Pre-coated, Post-coated Epoxy Dipped or Copper Fin condenser coils
- Unit Enclosure Options:
 - Wire Panels (full unit-standard): coated, heavy gauge welded wire mesh mounted on exterior of unit to prevent unauthorized access
 - Louvered Panels (full unit): to protect condenser coils, visually screen internal components and prevent unauthorized access
- Sound Attenuation:
 - Compressor Acoustic Sound Blanket
 - Ultra Quiet fans
- Vibration Isolators - 1" spring, 2" spring or neoprene pad isolators for mounting under unit base rails



BY JOHNSON CONTROLS

AIR-COOLED SCROLL CHILLER

YCAL Style E - 15 to 65 TONS

PACKAGE DESCRIPTION:

- Shipped complete from the factory ready for field installation and use
- Fully charged with HFC-410A and initial oil charge
- Baked on powder paint
- Heavy gauge, formed galvanized steel base
- Operational and Pressure Tested

Compressors:

- Suction-gas cooled, hermetic scroll compressors
- Large internal volume and oil reservoir provides greater liquid tolerance
- Crankcase heaters for extra protection against liquid migration

Condenser:

- Low noise, direct drive, maximum efficiency fans with corrosion resistant aluminum hub and composite blades; statically and dynamically balanced
- Totally enclosed air over (TEAO) type fan motors, current protected and permanently sealed
- Seamless, internally enhanced copper fin & tube coils arranged in staggered rows; mechanically expanded to full-height aluminum fins
- Design Working Pressure 650 PSIG
- Integral subcooling included

Cooler:

- Equipped with a heater controlled by separate thermostat for freeze protection to -20 deg. F
- Covered by closed cell foam insulation
- Inlet and outlet are grooved for compatibility with field supplied victaulic connections

Controls:

- All controls housed in a NEMA 3R/12 cabinet with gasket sealed, hinged & latched door
- LCD, 40-character display with backlight
- Color coded, sealed keypad
- Standard controls permit operation from 25 to 125 deg F.

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0019EE46	15.4	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.6
Design Flow Rate (USGPM)	37.1	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	6.3	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	1454
Fluid	Water			Operating Wt. (lb)	1481
Fouling Factor	0.0001				
Water Volume (USGAL)	3.3				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	18.6 / 18.6			
Compressor Start Current (LRA)	114 / 114			
Fan QTY/FLA (each)	2 / 1.3			

Single Point				
Min. Circuit Ampacity	44.9			
Min. Non-Fused Disconnect (Amps)	60			
Min. Dual Element Fuse Size (Amps)	50			
Max. Dual Element Fuse Size (A)	60			
Min. Circuit Breaker (Amps)	50			
Max. Circuit Breaker (Amps)	60			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	39.8		Compressor kW	17.6
Inrush (PW) Amps	114		Total Fan kW	1
Starter Type	Across the Line		Total kW	18.6

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	15.4	17.6	10
50	70.2	9.1	6.3	16

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	83	82	81	81	79	74	69	67	83
50	70.2	80	79	78	78	76	71	66	64	80

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	56	55	54	54	52	47	42	40	56
50	70.2	53	52	51	51	49	44	39	37	53

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



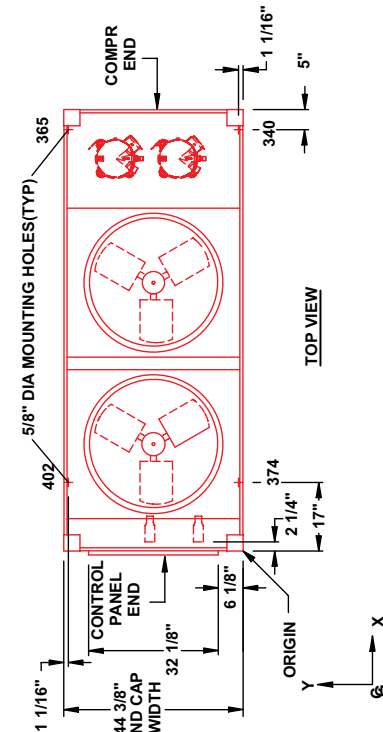
Software Version	YW14.01A
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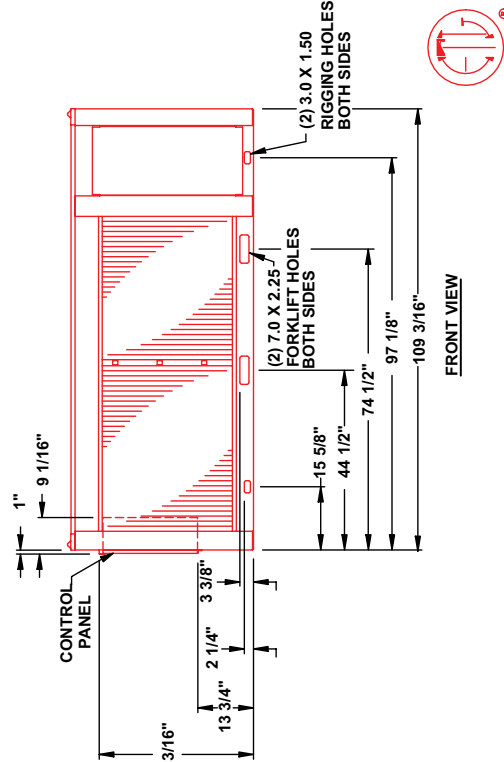
BY JOHNSON CONTROLS

MODEL: YCAL0019EE46 AHRI CAPACITY 15.4 TONS

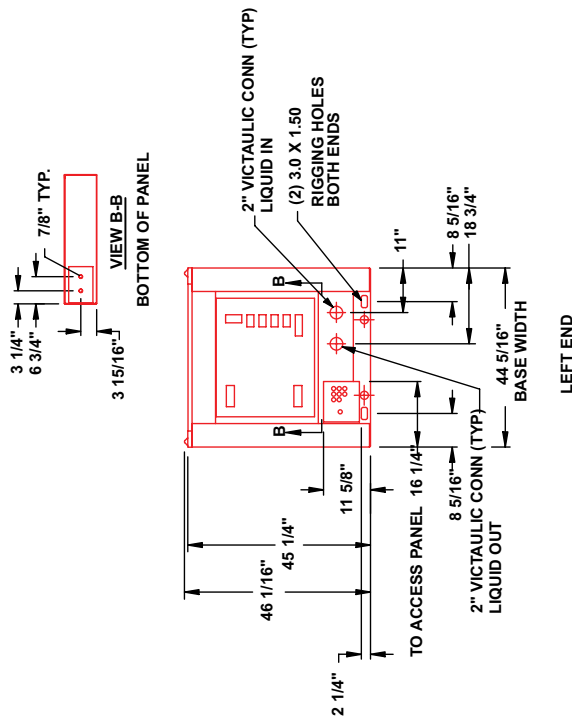
YCAL
15 TO 40



R-410A CHILLER



- NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES: COIL SIDE - 6' COMPRESSOR SIDE - 4'; CONTROL SIDE - 6'; TOP - NO OBSTRUCTIONS ALLOWED; DISTANCE BETWEEN ADJACENT UNITS - 10'. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THEN THE UNIT.
 2. WEIGHTS (LB): SHIPPING - 1,454, OPERATING - 1,481.
 3. CENTER OF GRAVITY FROM ORIGIN: X= 58.6", Y= 22.9".
 4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 5. A STRAINER, PREFERABLY 40 MESH, MUST BE INSTALLED IN THE COOLER INLET JUST AHEAD OF THE COOLER. THIS IS IMPORTANT TO PROTECT THE COOLER FROM THE ENTRANCE OF LARGE PARTICLES WHICH COULD CAUSE DAMAGE TO THE EVAPORATOR.



POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

AIR-COOLED SCROLL CHILLER
MODEL: YCAL0019EE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 150.64-EG1
Dwg. Lev. : 03/05
Dwg. Scale : NTS



Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0022EE46	18.7	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.5
Design Flow Rate (USGPM)	44.9	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	4.9	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	1567
Fluid	Water			Operating Wt. (lb)	1597
Fouling Factor	0.0001				
Water Volume (USGAL)	3.6				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	20 / 20			
Compressor Start Current (LRA)	125 / 125			
Fan QTY/FLA (each)	2 / 1.3			

Single Point				
Min. Circuit Ampacity	48.1			
Min. Non-Fused Disconnect (Amps)	60			
Min. Dual Element Fuse Size (Amps)	60			
Max. Dual Element Fuse Size (A)	60			
Min. Circuit Breaker (Amps)	60			
Max. Circuit Breaker (Amps)	60			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	42.6		Compressor kW	21.5
Inrush (PW) Amps	125		Total Fan kW	1
Starter Type	Across the Line		Total kW	22.5

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	18.7	21.5	10
50	72	11.5	7.2	16.9

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	84	83	82	82	79	75	70	68	84
50	72	82	82	81	81	78	74	69	66	83

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	57	56	55	55	52	48	43	41	57
50	72	55	55	54	54	51	47	42	39	56

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power.



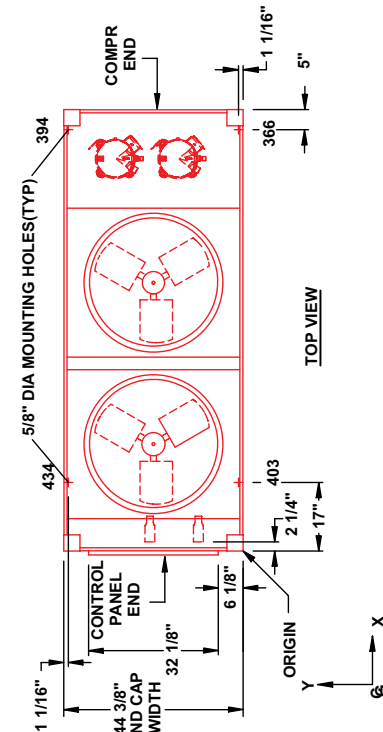
Software Version	YW14.01A
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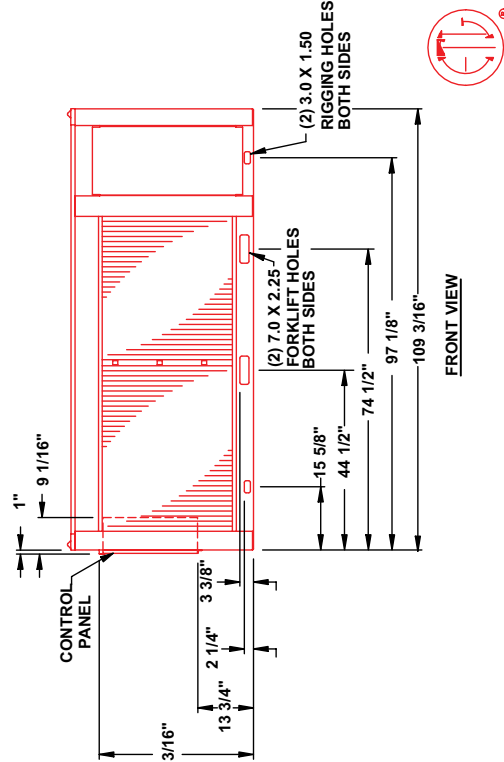
BY JOHNSON CONTROLS

MODEL: YCAL0022EE46 AHRI CAPACITY 18.7 TONS

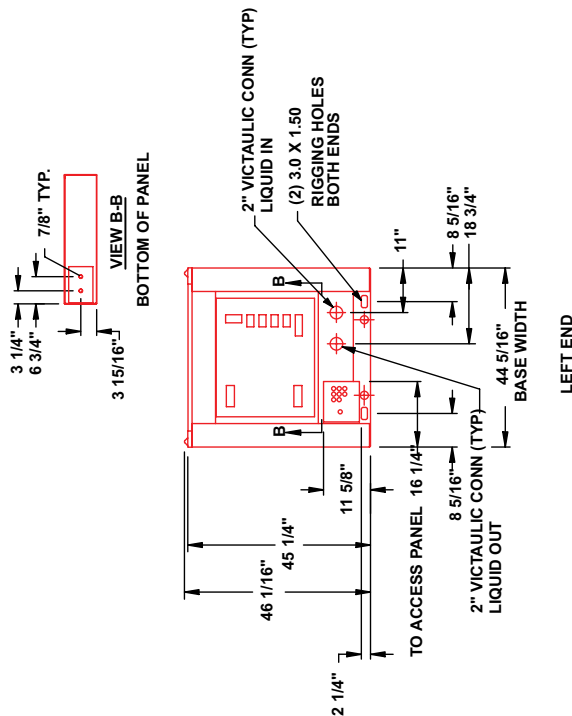
YCAL
15 TO 40



R-410A CHILLER



- NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES: COIL SIDE - 6' COMPRESSOR SIDE - 4'; CONTROL SIDE - 6'; TOP - NO OBSTRUCTIONS ALLOWED; DISTANCE BETWEEN ADJACENT UNITS - 10'. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN THE UNIT.
 2. WEIGHTS (LB): SHIPPING - 1,567, OPERATING - 1,597.
 3. CENTER OF GRAVITY FROM ORIGIN: X= 58.5", Y= 22.9".
 4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 5. A STRAINER, PREFERABLY 40 MESH, MUST BE INSTALLED IN THE COOLER INLET JUST AHEAD OF THE COOLER. THIS IS IMPORTANT TO PROTECT THE COOLER FROM THE ENTRANCE OF LARGE PARTICLES WHICH COULD CAUSE DAMAGE TO THE EVAPORATOR.



POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

AIR-COOLED SCROLL CHILLER
MODEL: YCAL0022EE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 150.64-EG1
Dwg. Lev. : 03/05
Dwg. Scale : NTS



Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0028EE46	25.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	13.4
Design Flow Rate (USGPM)	61.4	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	9	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	1798
Fluid	Water			Operating Wt. (lb)	1835
Fouling Factor	0.0001				
Water Volume (USGAL)	2.5				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	23.1 / 26.9			
Compressor Start Current (LRA)	150 / 187			
Fan QTY/FLA (each)	2 / 4			

Single Point				
Min. Circuit Ampacity	64.7			
Min. Non-Fused Disconnect (Amps)	100			
Min. Dual Element Fuse Size (Amps)	80			
Max. Dual Element Fuse Size (A)	90			
Min. Circuit Breaker (Amps)	80			
Max. Circuit Breaker (Amps)	90			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	58		Compressor kW	27.5
Inrush (PW) Amps	187		Total Fan kW	3
Starter Type	Across the Line		Total kW	30.5

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	25.6	27.5	10.1
50.8	71.9	15.7	11.7	14.3

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	95	90	92	91	85	81	77	74	92
50.8	71.9	92	87	90	88	82	79	74	71	89

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	68	63	65	64	58	54	50	47	65
50.8	71.9	65	60	63	61	55	52	47	44	62

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



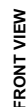
Software Version	YW14.01A
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YCAL
15 TO 40



R-410A CHILLER



POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

AIR-COOLED SCROLL CHILLER

MODEL : YC-AI 0028EE46

MODEL: 1CAL00Z8EE40
NOT FOR CONSTRUCTION

Project Name : Contractors Guide

Location:

Location :
Engineer :

Contractor :

For :

Sold To :

Cust Purch Order# :

York Contract#:

UNIT

TAG:

Date:

Rev. Date :

Rev. Date :
Form : 150.64-EG1

Dwg. Lev. : 03/05

Dwg. Scale: NTS



A JOHNSON CONTROLS COMPANY

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0033EE46	28.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.5
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.5
Design Flow Rate (USGPM)	68.5	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	11	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	2034
Fluid	Water			Operating Wt. (lb)	2077
Fouling Factor	0.0001				
Water Volume (USGAL)	5.2				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	26.9 / 26.9			
Compressor Start Current (LRA)	187 / 187			
Fan QTY/FLA (each)	2 / 4			

Single Point				
Min. Circuit Ampacity	66.7			
Min. Non-Fused Disconnect (Amps)	100			
Min. Dual Element Fuse Size (Amps)	80			
Max. Dual Element Fuse Size (A)	90			
Min. Circuit Breaker (Amps)	80			
Max. Circuit Breaker (Amps)	90			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	61.8		Compressor kW	29.6
Inrush (PW) Amps	187		Total Fan kW	3
Starter Type	Across the Line		Total kW	32.6

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	28.6	29.6	10.5
50	70	16.6	11.2	15.7

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	95	90	93	91	85	82	77	74	92
50	70	92	87	90	88	82	79	74	71	89

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	68	63	66	64	58	55	50	47	65
50	70	65	60	63	61	55	52	47	44	62

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



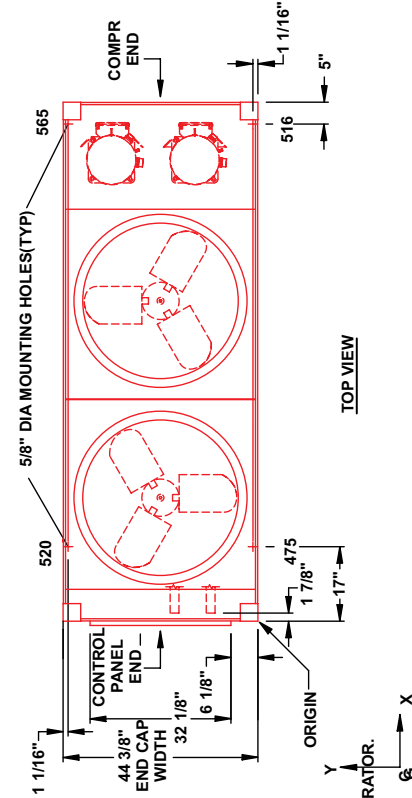
Software Version	YW14.01A
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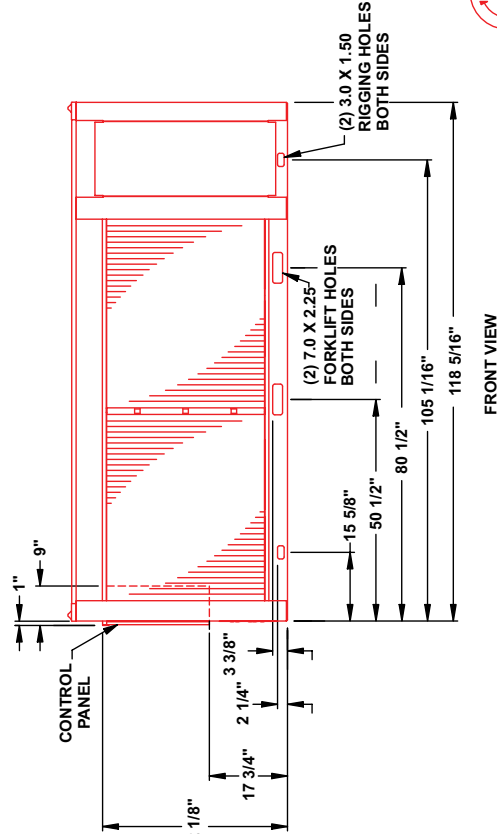
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MODEL: YCAL0033EE46 AHRI CAPACITY 28.6 TONS

YCAL
15 TO 40

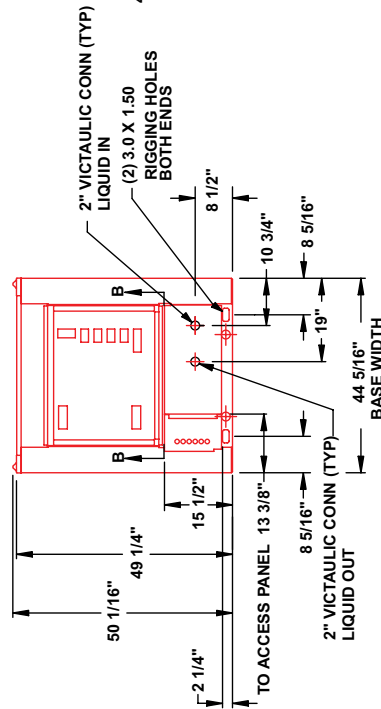
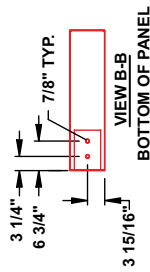


R-410A CHILLER



A JOHNSON CONTROLS COMPANY

- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE. RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES:
COIL SIDE - 6' COMPRESSOR SIDE - 4'; CONTROL SIDE - 6'; TOP - NO OBSTRUCTIONS ALLOWED; DISTANCE BETWEEN ADJACENT UNITS - 10'. NO MORE THEN ONE ADJACENT WALL MAY BE HIGHER THEN THE UNIT.
 2. WEIGHTS (LB): SHIPPING - 2,034, OPERATING - 2,077.
 3. CENTER OF GRAVITY FROM ORIGIN: X= 67.1", Y= 23.1".
 4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 5. A STRAINER, PREFERABLY 40 MESH, MUST BE INSTALLED IN THE COOLER INLET JUST AHEAD OF THE COOLER. THIS IS IMPORTANT TO PROTECT THE COOLER FROM THE ENTRANCE OF LARGE PARTICLES WHICH COULD CAUSE DAMAGE TO THE EVAPORATOR.



LEFT END

POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

AIR-COOLED SCROLL CHILLER

MODEL: YCAL0033EE46

NOT FOR CONSTRUCTION

Project Name : Contractors Guide

Location :

Engineer :

Contractor :

For :

Sold To :

Cust Purch Order# :

York Contract# :

UNIT

TAG:

Date :

Rev. Date :

Form : 150.64-EG1

Dwg. Lev. : 03/05

Dwg. Scale : NTS

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0043EE46	37.2	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.4
Design Flow Rate (USGPM)	89.4	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	6.1	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	2942
Fluid	Water			Operating Wt. (lb)	2967
Fouling Factor	0.0001				
Water Volume (USGAL)	2.7				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	20 / 20	20 / 20		
Compressor Start Current (LRA)	125 / 125	125 / 125		
Fan QTY/FLA (each)	2 / 3.4	2 / 3.4		

Single Point				
Min. Circuit Ampacity	99.2			
Min. Non-Fused Disconnect (Amps)	150			
Min. Dual Element Fuse Size (Amps)	110			
Max. Dual Element Fuse Size (A)	110			
Min. Circuit Breaker (Amps)	110			
Max. Circuit Breaker (Amps)	110			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	93.7		Compressor kW	38.8
Inrush (PW) Amps	125		Total Fan kW	5.6
Starter Type	Across the Line		Total kW	44.4

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	37.2	38.8	10.1
75	83.3	30	24.4	12
50	69	21.1	14.2	14.9
25	55	11.5	6.6	17.3

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	90	89	89	88	87	83	79	73	91
75	83.3	90	89	89	88	86	83	79	73	91
50	69	87	86	86	85	84	80	76	70	88
25	55	84	83	83	82	81	77	73	67	85

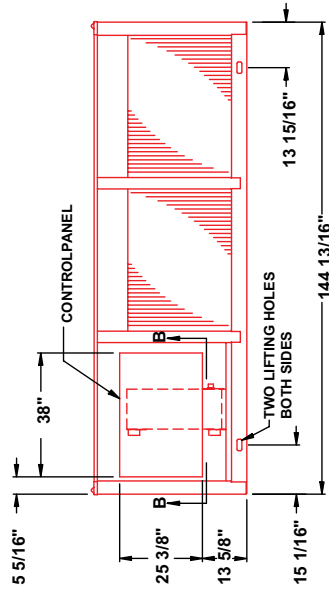
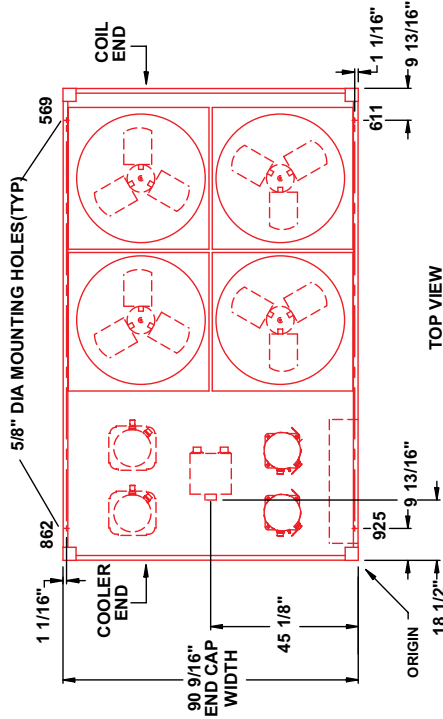
Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	63	62	62	61	60	56	52	46	64
75	83.3	63	62	62	61	59	56	52	46	64
50	69	60	59	59	58	57	53	49	43	61
25	55	57	56	56	55	54	50	46	40	58

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

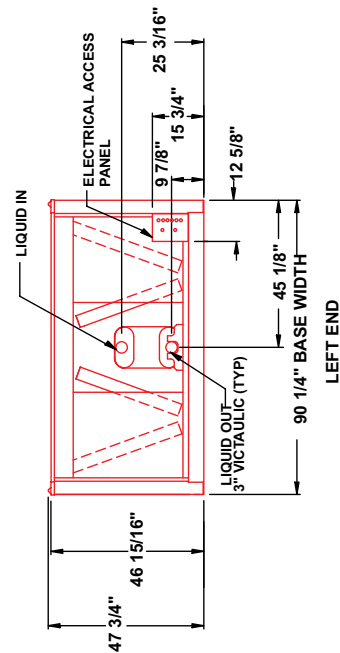
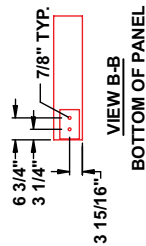


Software Version	YW14.01A
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FRONT VIEW

- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES:
COIL SIDE - 6' COMPRESSOR SIDE - 4'; CONTROL SIDE - 6'; TOP - NO OBSTRUCTIONS ALLOWED; DISTANCE BETWEEN ADJACENT UNITS - 10'. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN THE UNIT.
2. WEIGHTS (LB): SHIPPING - 2,942, OPERATING - 2,967.
3. CENTER OF GRAVITY FROM ORIGIN: X= 59.6", Y= 43.6".
4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
5. A STRAINER, PREFERABLY 40 MESH, MUST BE INSTALLED IN THE COOLER INLET JUST AHEAD OF THE COOLER. THIS IS IMPORTANT TO PROTECT THE COOLER FROM THE ENTRANCE OF LARGE PARTICLES WHICH COULD CAUSE DAMAGE TO THE EVAPORATOR.



POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

MODEL: YCAL0043EE46
NOT FOR CONSTRUCTION

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

YORK
A JOHNSON CONTROLS COMPANY

Date :
Rev. Date :
Form : 150.62-EG1
Dwg. Lev. : 01/02
Dwg. Scale : NTS

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0046EE46	39.4	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.7
Design Flow Rate (USGPM)	94.6	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	5.2	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	2968
Fluid	Water			Operating Wt. (lb)	3000
Fouling Factor	0.0001				
Water Volume (USGAL)	3.5				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	20.7 / 20.7	20 / 20		
Compressor Start Current (LRA)	125 / 125	125 / 125		
Fan QTY/FLA (each)	2 / 3.4	2 / 3.4		

Single Point				
Min. Circuit Ampacity	100.8			
Min. Non-Fused Disconnect (Amps)	150			
Min. Dual Element Fuse Size (Amps)	110			
Max. Dual Element Fuse Size (A)	110			
Min. Circuit Breaker (Amps)	110			
Max. Circuit Breaker (Amps)	110			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	95.1		Compressor kW	41
Inrush (PW) Amps	125		Total Fan kW	5.6
Starter Type	Across the Line		Total kW	46.6

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	39.4	41	10.1
73.2	82.9	31.5	25.2	12.3
50	69.1	22.4	14.9	15.2
23.2	55	11.6	6.5	17.5

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	90	89	89	88	87	83	79	73	91
73.2	82.9	90	89	89	88	86	83	79	73	91
50	69.1	87	86	86	85	84	80	76	70	88
23.2	55	84	83	83	82	81	77	73	67	85

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	63	62	62	61	60	56	52	46	64
73.2	82.9	63	62	62	61	59	56	52	46	64
50	69.1	60	59	59	58	57	53	49	43	61
23.2	55	57	56	56	55	54	50	46	40	58

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



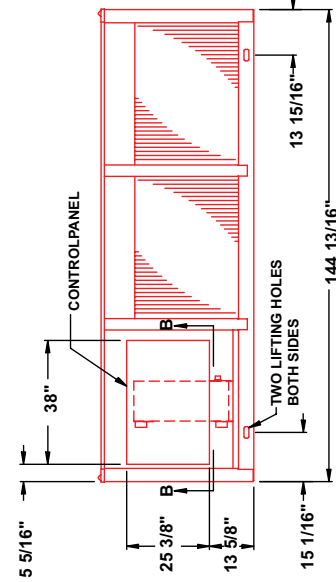
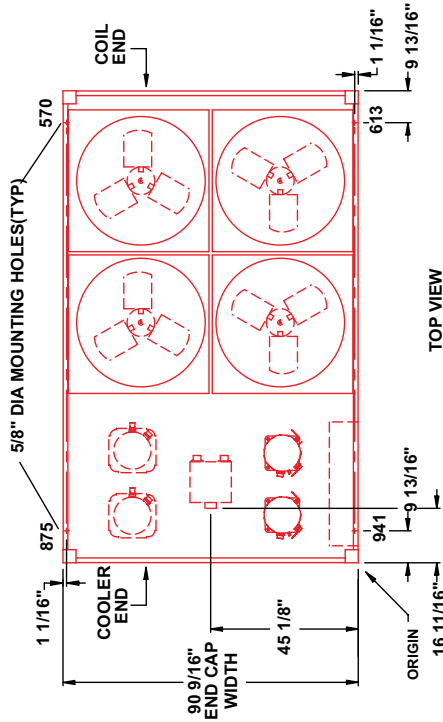
Software Version	YW14.01A
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BY JOHNSON CONTROLS

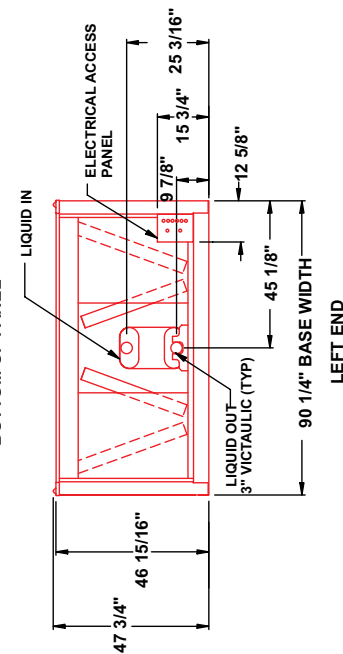
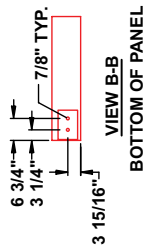
MODEL: YCAL0046EE46 AHRI CAPACITY 39.4 TONS

YCAL
15 TO 40



FRONT VIEW

- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES:
COIL SIDE - 6' COMPRESSOR SIDE - 4'; CONTROL SIDE - 6';
TOP - NO OBSTRUCTIONS ALLOWED; DISTANCE BETWEEN ADJACENT UNITS - 10'.
NO MORE THEN ONE ADJACENT WALL MAY BE HIGHER THEN THE UNIT.
 2. WEIGHTS (LB): SHIPPING - 2,968, OPERATING - 3,000.
 3. CENTER OF GRAVITY FROM ORIGIN: X= 59.2", Y= 43.5".
 4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 5. A STRAINER, PREFERABLY 40 MESH, MUST BE INSTALLED IN THE COOLER INLET JUST AHEAD OF THE COOLER. THIS IS IMPORTANT TO PROTECT THE COOLER FROM THE ENTRANCE OF LARGE PARTICLES WHICH COULD CAUSE DAMAGE TO THE EVAPORATOR.



POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

MODEL: YCAL0046EE46
NOT FOR CONSTRUCTION

Date :
Rev. Date :
Form : 150.62-EG1
Dwg. Lev. : 01/02
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:



Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0052EE46	46.2	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.1
Design Flow Rate (USGPM)	110.9	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	9.3	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	3170
Fluid	Water			Operating Wt. (lb)	3208
Fouling Factor	0.0001				
Water Volume (USGAL)	3.5				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	23.1 / 23.1	23.1 / 23.1		
Compressor Start Current (LRA)	150 / 150	150 / 150		
Fan QTY/FLA (each)	2 / 4	2 / 4		

Single Point				
Min. Circuit Ampacity	114.2			
Min. Non-Fused Disconnect (Amps)	150			
Min. Dual Element Fuse Size (Amps)	125			
Max. Dual Element Fuse Size (A)	125			
Min. Circuit Breaker (Amps)	125			
Max. Circuit Breaker (Amps)	125			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	108.4		Compressor kW	47.9
Inrush (PW) Amps	150		Total Fan kW	6.7
Starter Type	Across the Line		Total kW	54.6

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	46.2	47.9	10.1
75	83.4	37.3	30.7	12
50	69.5	26.6	17.6	15.2
25	55	15.1	7.8	19.1

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	97	94	95	94	89	85	81	77	95
75	83.4	96	94	95	94	89	85	81	76	95
50	69.5	94	91	92	91	86	82	78	74	92
25	55	91	88	89	88	83	79	75	71	89

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	70	67	68	67	62	58	54	50	68
75	83.4	69	67	68	67	62	58	54	49	68
50	69.5	67	64	65	64	59	55	51	47	65
25	55	64	61	62	61	56	52	48	44	62

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

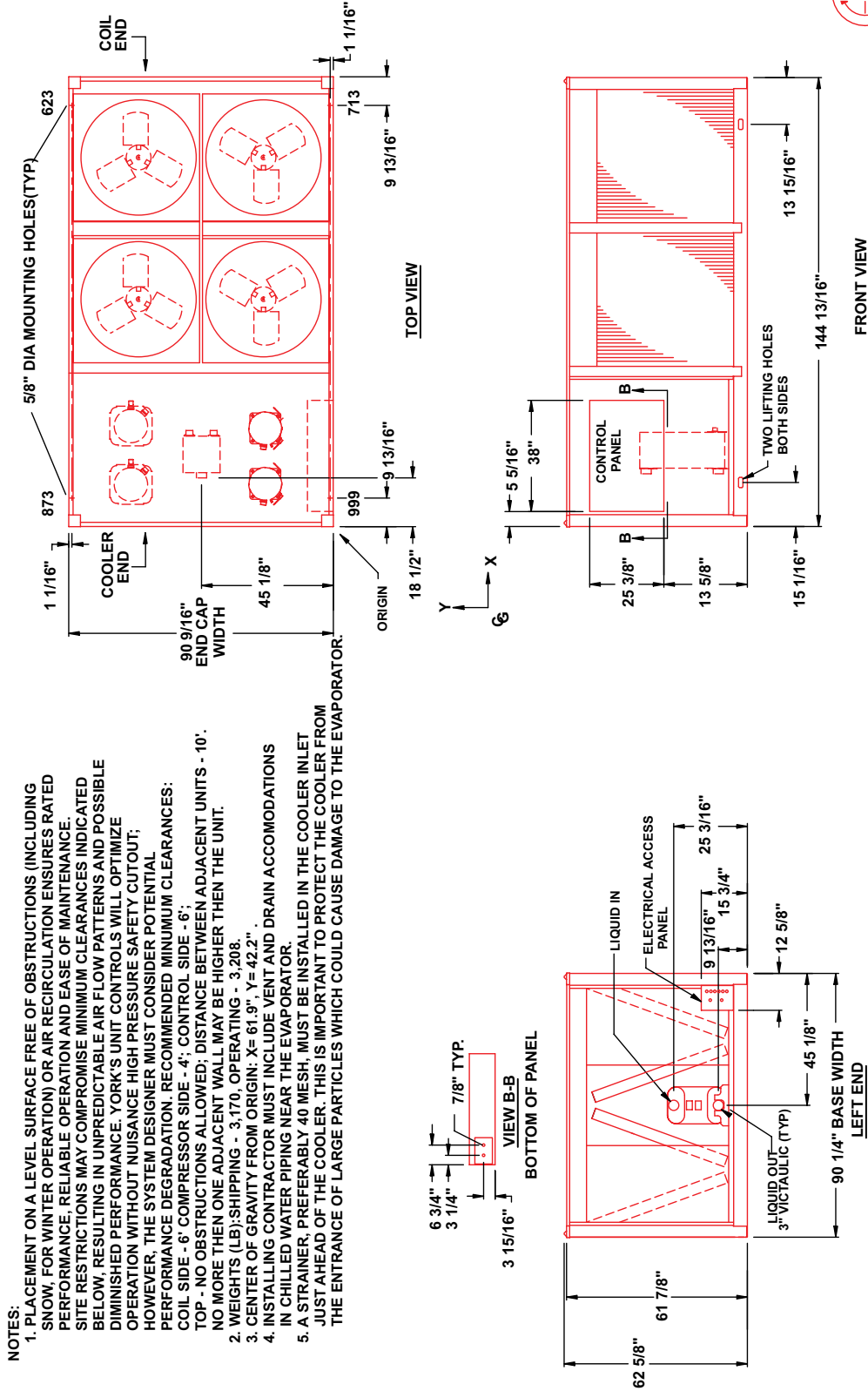


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YCAL0052EE46 AHRI CAPACITY 46.2 TONS



Date :
Rev. Date :
Form : 150.62-EG1
Dwg. Lev. : 01/02
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING
AIR-COOLED SCROLL CHILLER
MODEL: YCAL0052EE46
NOT FOR CONSTRUCTION

YCAL
41 TO 65

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0056EE46	56.2	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.7
Design Flow Rate (USGPM)	134.8	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	10	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	3206
Fluid	Water			Operating Wt. (lb)	3244
Fouling Factor	0.0001				
Water Volume (USGAL)	4.1				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	26.9 / 26.9	26.9 / 26.9		
Compressor Start Current (LRA)	187 / 187	187 / 187		
Fan QTY/FLA (each)	2 / 4	2 / 4		

Single Point				
Min. Circuit Ampacity	130.3			
Min. Non-Fused Disconnect (Amps)	150			
Min. Dual Element Fuse Size (Amps)	150			
Max. Dual Element Fuse Size (A)	150			
Min. Circuit Breaker (Amps)	150			
Max. Circuit Breaker (Amps)	150			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	123.6		Compressor kW	60.3
Inrush (PW) Amps	187		Total Fan kW	6.7
Starter Type	Across the Line		Total kW	67

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	56.2	60.3	10.1
75	83.6	45.5	38.8	12
50	69.4	32.2	22.6	14.9
25	55	18	10.2	18.1

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	98	95	96	95	89	86	81	78	95
75	83.6	97	94	95	94	89	85	81	77	95
50	69.4	95	92	93	92	86	83	78	75	92
25	55	92	89	90	89	83	80	75	72	89

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	71	68	69	68	62	59	54	51	68
75	83.6	70	67	68	67	62	58	54	50	68
50	69.4	68	65	66	65	59	56	51	48	65
25	55	65	62	63	62	56	53	48	45	62

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

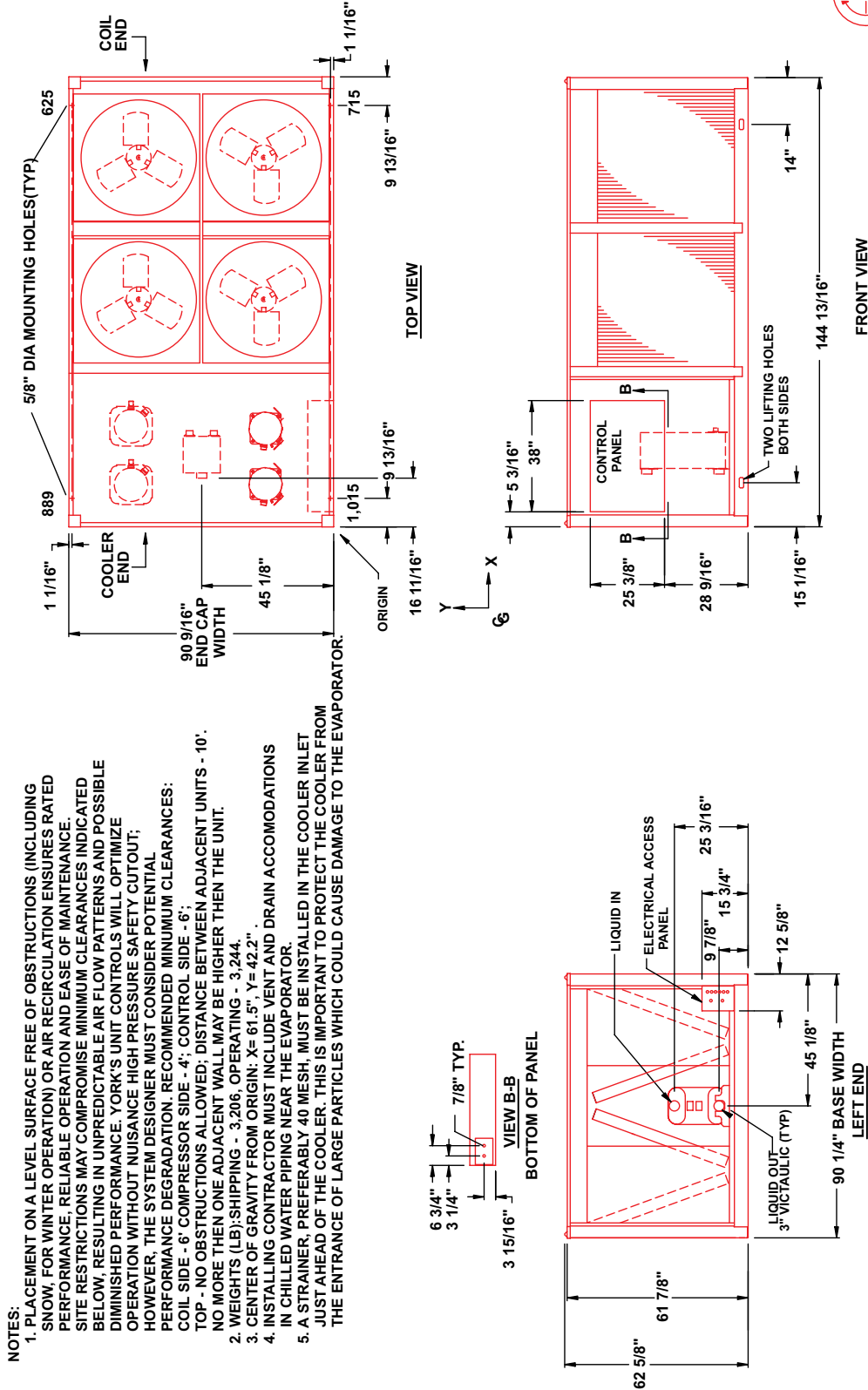


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YCAL0056EE46 AHRI CAPACITY 56.2 TONS



- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES:
COIL SIDE - 6' COMPRESSOR SIDE - 4'; CONTROL SIDE - 6'; TOP - NO OBSTRUCTIONS ALLOWED; DISTANCE BETWEEN ADJACENT UNITS - 10'. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN THE UNIT.
 2. WEIGHTS (LB): SHIPPING - 3,206, OPERATING - 3,244.
 3. CENTER OF GRAVITY FROM ORIGIN: X= 61.5", Y= 42.2".
 4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 5. A STRAINER, PREFERABLY 40 MESH, MUST BE INSTALLED IN THE COOLER INLET JUST AHEAD OF THE COOLER. THIS IS IMPORTANT TO PROTECT THE COOLER FROM THE ENTRANCE OF LARGE PARTICLES WHICH COULD CAUSE DAMAGE TO THE EVAPORATOR.

POWER: SINGLE POINT SUPPLY WITH TERMINAL BLOCK

PRODUCT DRAWING

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :
MODEL: YCAL0056EE46
NOT FOR CONSTRUCTION

Sold To :
Cust Purch Order# :
York Contract# :

Date :
Rev. Date :
Form : 150.62-EG1
Dwg. Lev. : 01/02
Dwg. Scale : NTS



YCAL
41 TO 65

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCAL0066EE46	66.2	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.3
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.4
Design Flow Rate (USGPM)	158.8	User Min. Operating Air Temp. (°F)	25	Physical Data	
Pressure Drop (ft. H ₂ O)	8.4	User Max. Operating Air Temp. (°F)	115	Rigging Wt. (lb)	4097
Fluid	Water			Operating Wt. (lb)	4142
Fouling Factor	0.0001				
Water Volume (USGAL)	4.9				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	33.9 / 33.9	26.9 / 26.9		
Compressor Start Current (LRA)	250 / 250	187 / 187		
Fan QTY/FLA (each)	2 / 4	2 / 1.3		

Single Point				
Min. Circuit Ampacity	146			
Min. Non-Fused Disconnect (Amps)	200			
Min. Dual Element Fuse Size (Amps)	175			
Max. Dual Element Fuse Size (A)	175			
Min. Circuit Breaker (Amps)	175			
Max. Circuit Breaker (Amps)	175			
Wire Lugs Per Phase	1			
Wire Range (Lug Size)	(1)#14 - #2/0		Operating Condition Electrical Data	
Total Amps	137.6		Compressor kW	70.1
Inrush (PW) Amps	250		Total Fan kW	6.7
Starter Type	Across the Line		Total kW	76.8

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	66.2	70.1	10.3
71.5	82.6	52.5	41.1	13.2
50	69.3	37.8	25.9	15.5
21.5	55	18.5	10	18.9

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	96	94	95	94	90	86	82	77	95
71.5	82.6	96	94	95	94	89	85	82	77	95
50	69.3	93	91	92	91	87	83	79	74	92
21.5	55	92	89	90	89	83	80	75	72	89

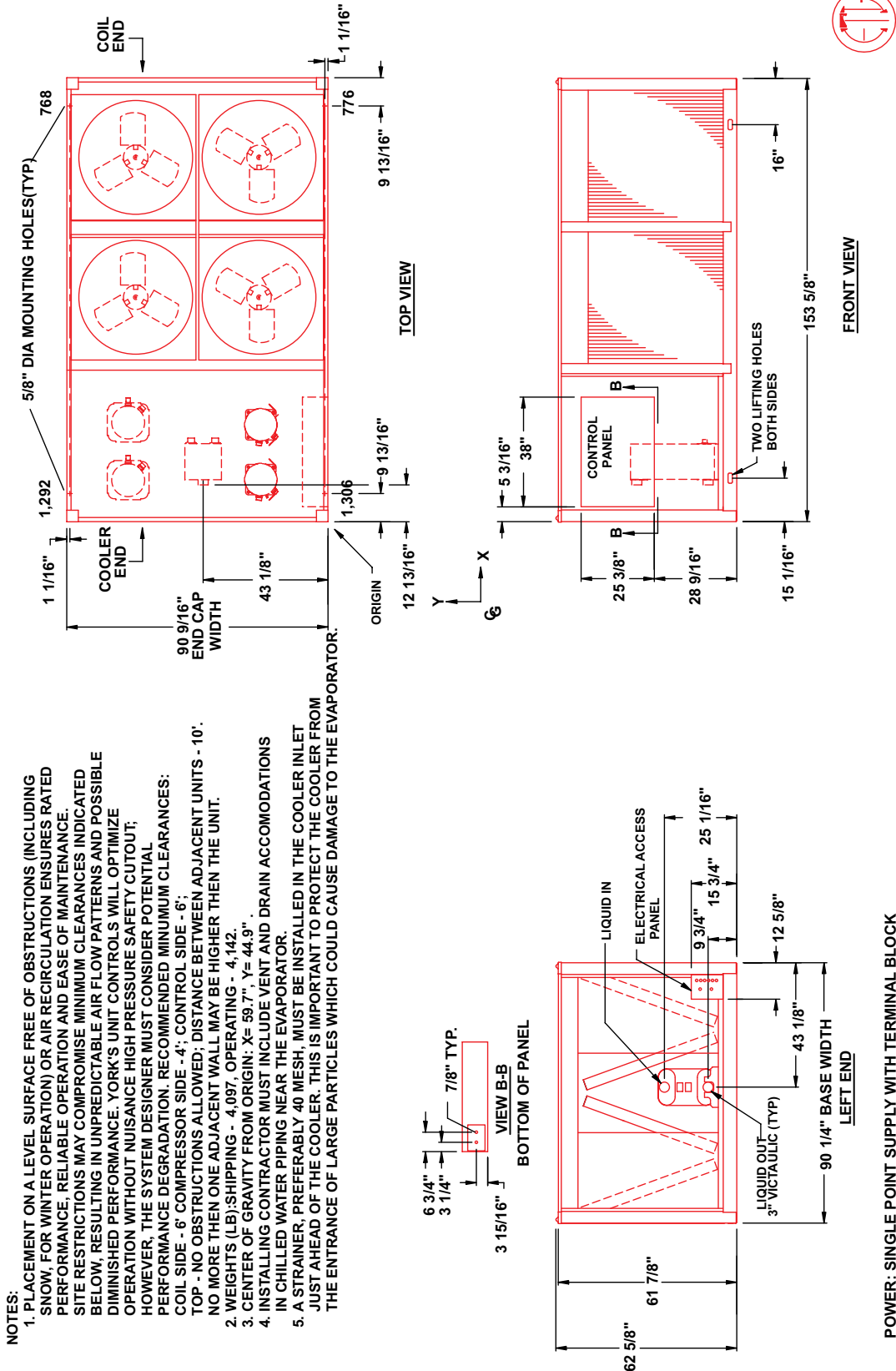
Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	69	67	68	67	63	59	55	50	68
71.5	82.6	69	67	68	67	62	58	55	50	68
50	69.3	66	64	65	64	60	56	52	47	65
21.5	55	65	62	63	62	56	53	48	45	62

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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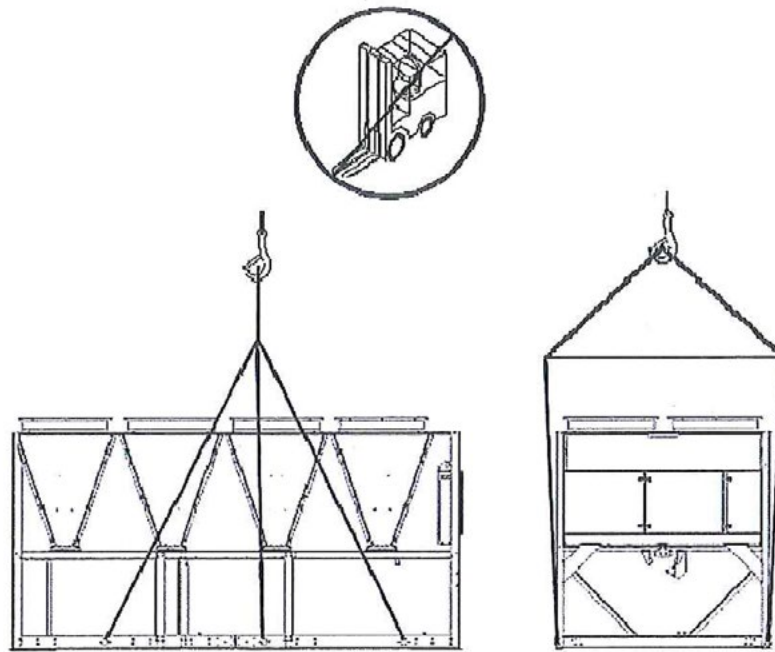
PRODUCT DRAWING AIR-COOLED SCROLL CHILLER MODEL: YCAL0066EE46 NOT FOR CONSTRUCTION	Project Name : Contractors Guide Location : Engineer : Contractor : For :	Sold To : Cust Purch Order# : York Contract# : UNIT TAG:	Date : Rev. Date : Form : 150.62-EG1 Dwg. Lev. : 01/02 Dwg. Scale : NTS
	 YORK A JOHNSON CONTROLS COMPANY		

YCAL
41 TO 65

YLAA
55 to 175 Tons
Air-Cooled Scroll Chiller



YLAA RIGGING



Typical Lifting Arrangement - 8 Fan Models



Typical Lifting Arrangement - 4 Fan Models

Use spreader bars to avoid lifting chains hitting the chiller.

CAUTION – Never lift the chiller using a forklift or by hooking to the top rails. Use only the lifting holes provided.

Lifting instructions are placed on a label on the chiller and on the shipping bag.



BY JOHNSON CONTROLS

AIR-COOLED SCROLL CHILLER YLAA - 55 to 175 TONS

BENEFITS

- Optimized design for R-410A refrigerant (No EPA Phase out date)
- Available in 2-tiers of efficiency:
 - Standard Efficiency: 9.6 – 10.0 EER
 - High Efficiency: 10.1 and above EER
- Best Part Load Efficiency with an IPLV as high as 15.9.
- The YLAA always qualifies for LEED credit through Enhanced Refrigerant Management.
 - This chiller utilizes 30-50% less refrigerant than conventional scroll chiller design.
- Standard ambient operation from 30 to 115-deg F
- Maintenance free, hermetic scroll compressor utilizes fewer moving parts to minimize breakdown
- Components and circuitry designed for lower minimum circuit ampacities (MCA) to allow use of smaller wire for reduced power wiring costs
- Electronic, digital-based controls ensure reliable, solid-state monitoring and control
- Units ship evacuated with initial oil charge and undergo factory pressure and operational testing to minimize field setup time
- Two refrigerant circuits allows redundant operation.
- Industry's only 18-month air-cooled warranty that covers all parts
- Wide range of options to fit any design requirement. (Acoustical treatments, Hydrokit packages, etc)

UPGRADE OPTIONS

- Remote Cooler
- Power Options --> 200, 230, 380, 460, 575 (Not available on all models, refer to Engineering Guide):
- Single Point Terminal Block, Terminal Block with Individual Circuit Breakers, Circuit Breaker, Non-fused Disconnect Switch or Non-fused Disconnect Switch with Individual System Circuit Breakers
- Control Options: Low Ambient Kit extends operating range to 0 deg. F from +30 deg. F
- Discharge Pressure Transducers and Readout Capability allows unit to sense and display discharge pressure
- Low Temperature Brine for chilling below 30 deg. F (which includes Electronic Expansion Valve)
- Motor Current Module allows monitoring of compressor motor current, provides extra protection against compressor reverse rotation, phase-loss and phase imbalance
- Hot Gas Bypass for continuous, stable operation at capacities as low as 5% capacity
- Service Isolation Valve - suction and discharge (ball type) isolation valves are added to unit per system; includes a system high pressure relief valve in compliance with ASHRAE 15
- Post-coated Epoxy Dipped
- Unit Enclosure Options:
 - Wire Panels (full unit): coated, heavy gauge welded wire mesh mounted on exterior of unit to prevent unauthorized access
 - Louvered Panels (condenser coils only): louvered panels mounted over exterior condenser coil faces to protect coils
 - Louvered Panels (full unit): to protect condenser coils, visually screen internal components and prevent unauthorized access
 - Louvered (condensers)/Wire Panels (mechanicals): Louvered steel panels on external condenser coil faces, heavy-gauge welded-wire mesh around base
- Sound Attenuation:
 - Compressor Acoustic Sound Blanket
 - Ultra Quiet fans
- Vibration Isolators - 1" spring, 2" spring or neoprene pad isolators for mounting under unit base rails



BY JOHNSON CONTROLS

AIR-COOLED SCROLL CHILLER YLAA - 55 to 175 TONS

PACKAGE DESCRIPTION:

- Shipped complete from the factory ready for field installation and use
- Fully charged with HFC-410A and initial oil charge
- Baked on powder paint
- Heavy gauge, formed galvanized steel base
- Operational and Pressure Tested

Compressors:

- Suction-gas cooled, hermetic scroll compressors
- Large internal volume and oil reservoir provides greater liquid tolerance
- Crankcase heaters for extra protection against liquid migration

Condenser:

- Low noise, direct drive, maximum efficiency fans with corrosion resistant aluminum hub and composite blades; statically and dynamically balanced
- The fan motors are Totally Enclosed Air-Over, current protected. They feature ball bearings that are double-sealed and permanently lubricated.
- Condenser coils are made of a single material to avoid galvanic corrosion due to dissimilar metals. Coils and headers are brazed as one piece.
- Design Working Pressure 650 PSIG
- Integral subcooling included

Evaporator:

- Equipped with a heater controlled by separate thermostat for freeze protection to -20 deg. F
- Covered by closed cell foam insulation
- Inlet and outlet are grooved for compatibility with field supplied victaulic connections

Refrigerant Circuit:

- Independent circuits per compressor
- Each refrigerant circuit includes: liquid line shutoff valve with charging port, low side pressure relief device, filter-drier, solenoid valve, sight glass with moisture indicator, thermostatic expansion valves, and flexible, closed-cell foam insulated suction line and suction pressure transducer.

Controls:

- All controls housed in a NEMA 3R/12 cabinet with gasket sealed, hinged & latched door
- LCD, 40-character display with backlight
- Color coded, sealed keypad
- Standard controls permit operation from 30 to 115 deg F.

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0058HE46	57	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.6
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.6
Design Flow Rate (USGPM)	136.5	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.6
Pressure Drop (ft. H ₂ O)	9.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	3508
Fouling Factor	0.0001			Operating Wt. (lb)	3552
Water Volume (USGAL)	5.4				
Min. Flow Rate (USGPM)	60				
Max. Flow Rate (USGPM)	285				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27	27 / 27		
Compressor Start Current (LRA)	2 / 4	2 / 4		
Fan QTY/FLA (each)	180 / 180	180 / 180		

Single Point				
Min. Circuit Ampacity	130			
Recommended Fuse/CB Rating	150			
Max. Inverse Time CB Rating	150			
Max. Dual Element Fuse Size (A)	150			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	57.7
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	3
Starter Type	Across the Line		Total kW	64.4

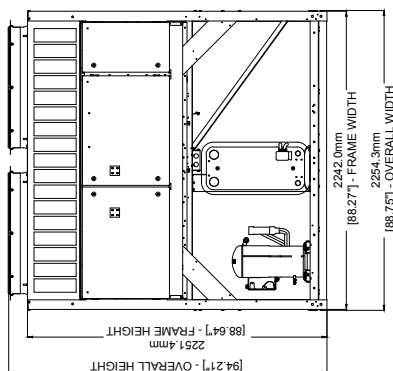
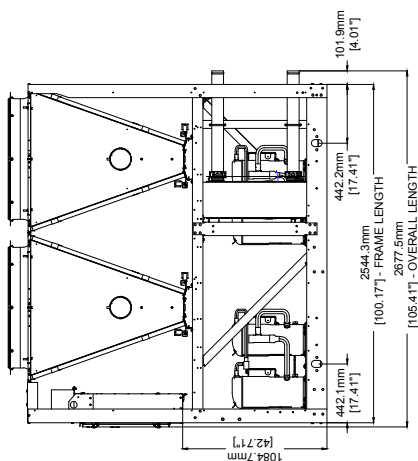
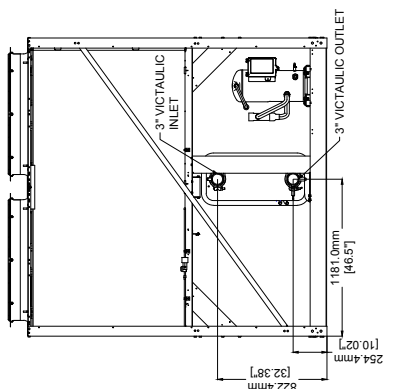
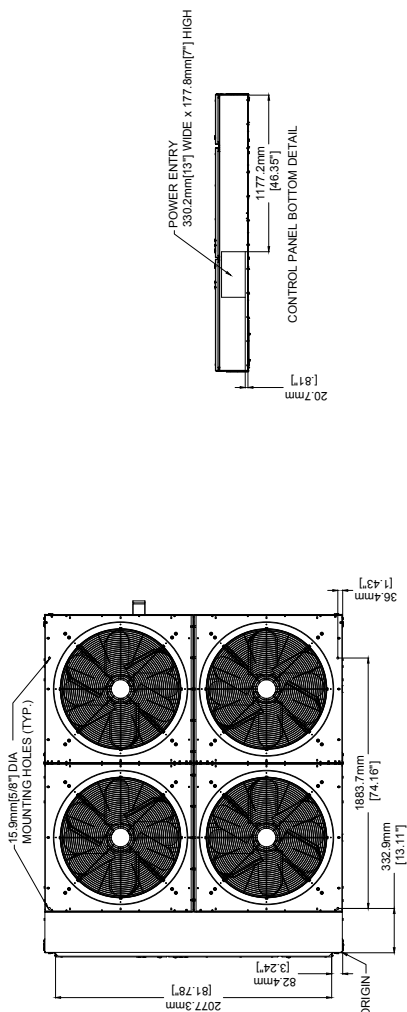
Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	57	64.4	10.6
2	83.7	46.2	43.3	12.8
3	69.1	32.4	24.3	16
4	55	16.6	10.4	19

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	96	95	91	91	87	83	80	77	93
2	83.7	96	95	91	91	87	83	80	77	93
3	69.1	93	92	88	88	84	80	77	74	90
4	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power.



Software Version	YW14.01A
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- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT RUINANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST PROVIDE ADEQUATE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER SYSTEMS TO PREVENT DEGRADATION.
 - 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1828.8mm(6')
 - 1.1.2. REAR TO WALL - 1828.8mm(6')
 - 1.1.3. CONTROL PANEL TO WALL - 1828.8mm(6')
 - 1.1.4. TOP - NO OBSTRUCTIONS ALLOWED.
 - 1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 304.8mm(10')
 - 1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
 2. HEIGHT AND CENTER OF GRAVITY REFER TO AWM REPORT.
 3. WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 - 4.1. REFER TO YORKWORKS REPORTS.
 5. FOR MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDS ONLY.



A JOHNSON CONTROLS COMPANY

Date : 11/06/2013
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT0**

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0058HE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0065HE46	62.3	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.4
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.6
Design Flow Rate (USGPM)	149.3	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.6
Pressure Drop (ft. H ₂ O)	11	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	3704
Fouling Factor	0.0001			Operating Wt. (lb)	3748
Water Volume (USGAL)	5.4				
Min. Flow Rate (USGPM)	60				
Max. Flow Rate (USGPM)	285				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	24 / 24 / 24	27 / 27		
Compressor Start Current (LRA)	2 / 4	2 / 4		
Fan QTY/FLA (each)	145 / 145 / 145	180 / 180		

Single Point				
Min. Circuit Ampacity	150			
Recommended Fuse/CB Rating	175			
Max. Inverse Time CB Rating	175			
Max. Dual Element Fuse Size (A)	175			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	65.2
Wire Range (Lug Size)	#14 - 500 kcmil		Total Fan kW	3
Starter Type	Across the Line		Total kW	71.9

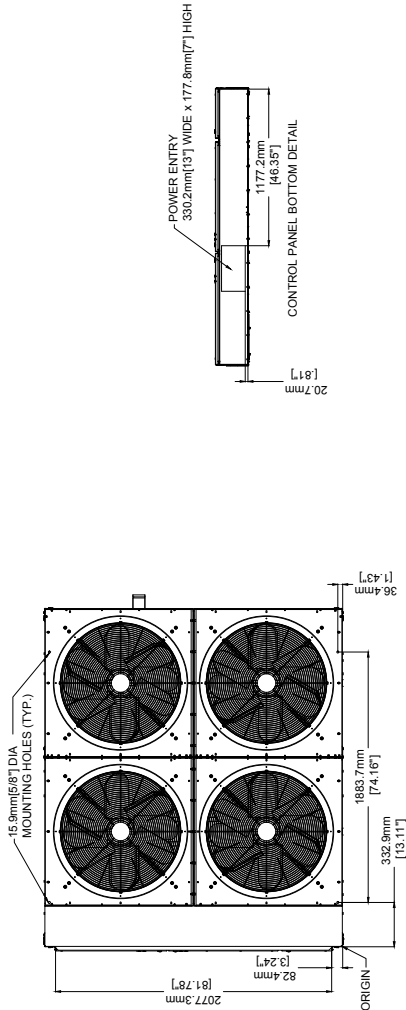
Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	62.3	71.9	10.4
2	87.3	54.3	53.5	12.2
3	75.9	42.5	35.6	14.3
4	63.9	30	21.1	17.1
5	55	13.8	9	18.5

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	96	95	91	91	87	83	80	77	93
2	87.3	96	95	91	91	87	83	80	77	93
3	75.9	96	95	91	91	87	83	80	77	93
4	63.9	93	92	88	88	84	80	77	74	90
5	55	90	89	85	85	81	77	74	71	87

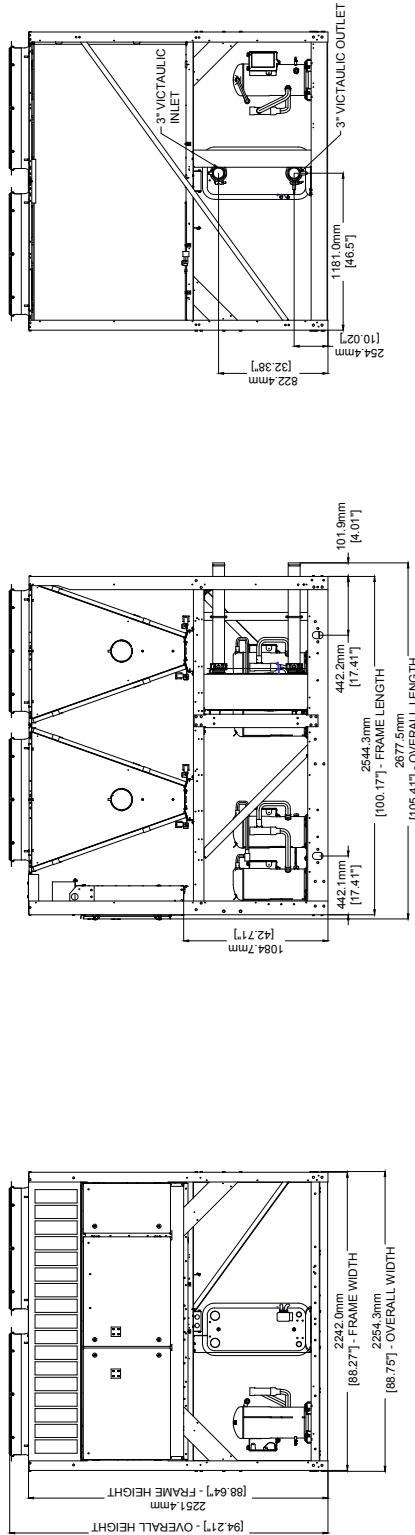
Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power.



Software Version	YW14.01A
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- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT RUINANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST PROVIDE PROPER CLEARANCES TO PREVENT OVERHEATING AND DEGRADATION.
 - 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1828.8mm [6']
 - 1.1.2. REAR TO WALL - 1828.8mm [6']
 - 1.1.3. CONTROL PANEL TO WALL - 1828.8mm [6']
 - 1.1.4. TOP - NO OBSTRUCTIONS ALLOWED.
 - 1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 304.8mm [10"]
 - 1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
 2. HEIGHT AND CENTER OF GRAVITY REFER TO AWM REPORT.
 3. WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 - 4.1. REFER TO YORKWORKS REPORTS.
 5. FOR MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDS ONLY.



YORK
A JOHNSON CONTROLS COMPANY

Date : 11/06/2013
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT0**

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
MODEL: YLAA0065HE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0070SE46	71	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.4
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	16
Design Flow Rate (USGPM)	170.3	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	16.1
Pressure Drop (ft. H ₂ O)	13.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	3898
Fouling Factor	0.0001			Operating Wt. (lb)	3943
Water Volume (USGAL)	5.4				
Min. Flow Rate (USGPM)	60				
Max. Flow Rate (USGPM)	285				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	23 / 23 / 23	23 / 23 / 23		
Compressor Start Current (LRA)	2 / 4	2 / 4		
Fan QTY/FLA (each)	150 / 150 / 150	150 / 150 / 150		

Single Point				
Min. Circuit Ampacity	160			
Recommended Fuse/CB Rating	175			
Max. Inverse Time CB Rating	175			
Max. Dual Element Fuse Size (A)	175			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	75.5
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	3
Starter Type	Across the Line		Total kW	82.2

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	71	82.2	10.4
2	88.1	62.8	63	12
3	80.4	53.7	46.1	14
4	70.5	42.1	31.5	16
5	59.6	29.2	18.9	18.5
6	55	14.4	9.1	19.1

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	96	95	91	91	87	93	80	77	93
2	88.1	96	95	91	91	87	93	80	77	93
3	80.4	96	95	91	91	87	93	80	77	93
4	70.5	95	94	90	90	86	82	79	76	91
5	59.6	93	92	88	88	84	80	77	74	90
6	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

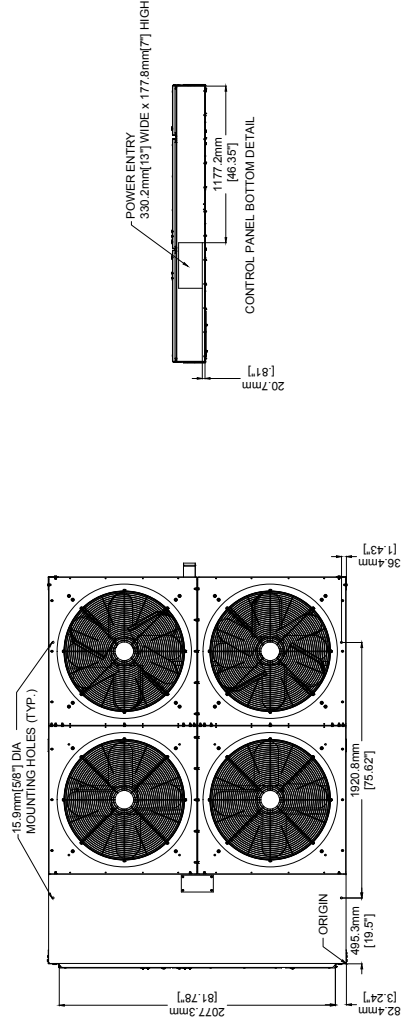


Software Version	YW14.01A
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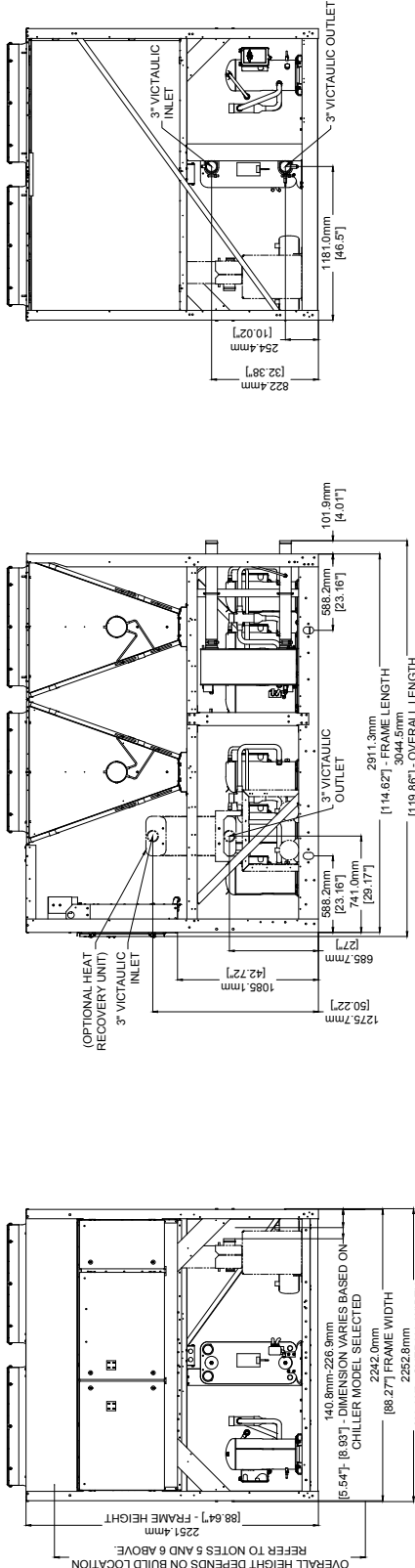


BY JOHNSON CONTROLS

MODEL: YLAA0070SE AHRI CAPACITY 71 TONS



- NOTES:
1. OPERATION ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE. RELIABLE OPERATION AND LEAK DETECTION ARE REQUIRED TO MAINTAIN COMPRESSOR MINIMUM CLEARANCES AND PREVENT REFRIGERANT LEAKS. SITE RESTRICTIONS MAY REQUIRE MINIMUM CLEARANCES AND LEAK DETECTION. REFRIGERANT LEAKS CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY, DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF, HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.
 - 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1828.8mm [6']
 - 1.1.2. REAR TO WALL - 1828.8mm [6']
 - 1.1.3. CONTROL PANEL TO WALL - 1828.8mm [6']
 - 1.1.4. DISTANCE BETWEEN ADJACENT UNITS - 3048mm [10']
 - 1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 3048mm [10']
 - 1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
 2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVI REPORT.
 3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 - 4.1. REFER TO YORKworks REPORTS.
 5. OVERALL HEIGHT OF UNIT IS 2384.8mm [94.27"] ON MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDINGS.
 6. OVERALL HEIGHT OF UNIT IS 2507.0mm [98.70"] ON SABADELL, SPAIN BUILDINGS.
 7. FOR MONTERREY, MEXICO, SAN ANTONIO, TEXAS AND SABADELL, SPAIN BUILDS ONLY.



A JOHNSON CONTROLS COMPANY

Date : 11/06/2013
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Dwg. Scale : NTS

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UNIT TAG: **UNIT0**

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
MODEL: YLAA0070SE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0080SE46	77.8	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.4
Design Flow Rate (USGPM)	186.5	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.6
Pressure Drop (ft. H ₂ O)	12.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	3906
Fouling Factor	0.0001			Operating Wt. (lb)	3998
Water Volume (USGAL)	6.7				
Min. Flow Rate (USGPM)	100				
Max. Flow Rate (USGPM)	355				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	23 / 23 / 23		
Compressor Start Current (LRA)	2 / 4	2 / 4		
Fan QTY/FLA (each)	187 / 187 / 187	150 / 150 / 150		

Single Point				
Min. Circuit Ampacity	173			
Recommended Fuse/CB Rating	200			
Max. Inverse Time CB Rating	200			
Max. Dual Element Fuse Size (A)	200			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	86.3
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	3
Starter Type	Across the Line		Total kW	83

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	77.8	93	10
2	88.6	69.5	74.9	11.1
3	80.6	59.2	52.9	13.4
4	71.5	47.3	37.4	15.2
5	59.7	32	21.3	18
6	55	16.9	10.8	18.9

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	96	95	91	91	87	83	80	77	93
2	88.6	96	95	91	91	87	83	80	77	93
3	80.6	96	95	91	91	87	83	80	77	93
4	71.5	95	94	90	90	86	82	79	76	91
5	59.7	93	92	88	88	84	80	77	74	90
6	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

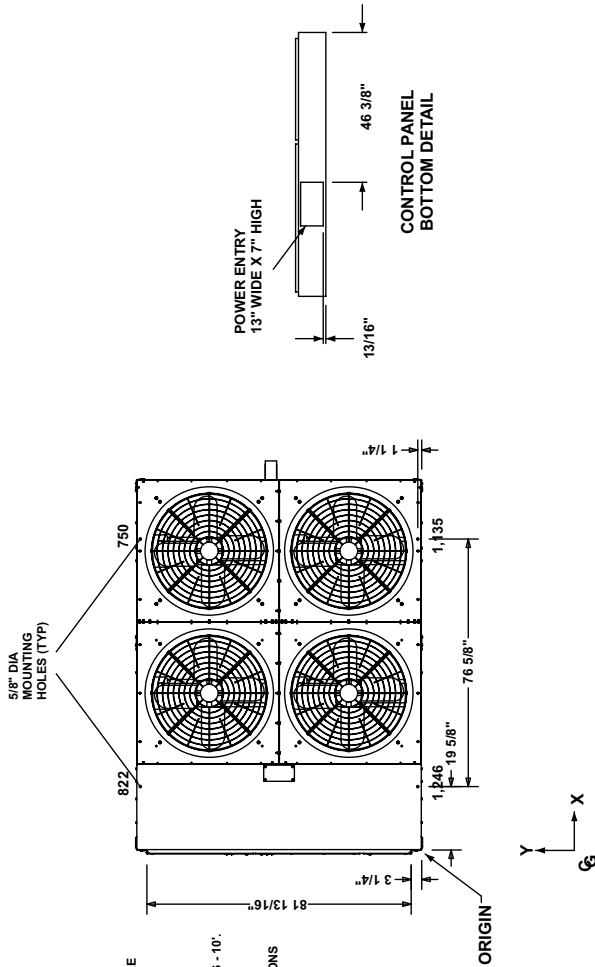


Software Version	YW14.01A
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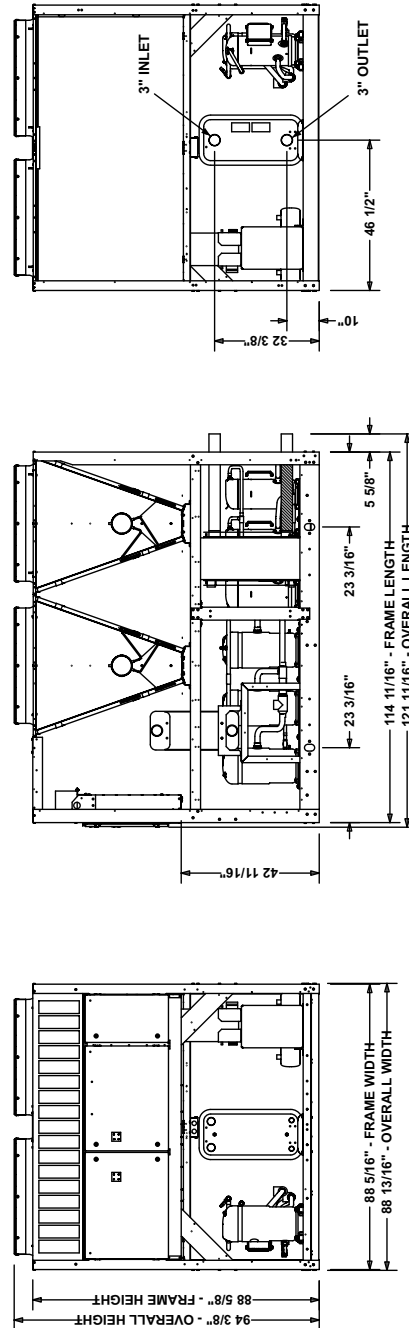
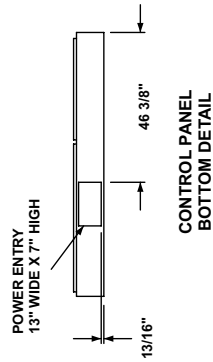


BY JOHNSON CONTROLS

MODEL: YLAA0080SE AHRI CAPACITY 77.8 TONS



- NOTES:
1. PLACE UNIT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW) FOR WINTER OPERATION. AIR REQUIREMENTS ARE BASED ON UNRESTRICTED AIR FLOW. AIR FLOW RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES: TOP - NO OBSTRUCTIONS LOWERED - DISTANCE BETWEEN ADJACENT UNITS - 10". NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN THE UNIT. WEIGHTS (LB): SHIPPING - 3,898. OPERATING - 3,953.
 2. CENTER OF GRAVITY FROM ORIGIN: X=56.1", Y=52.9".
 3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.



Date : 12/18/2012 11:39:31
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: UNIT0

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0080SE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0081SE46	78.8	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.4
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	16.1
Design Flow Rate (USGPM)	188.9	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	16.1
Pressure Drop (ft. H ₂ O)	8.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	4061
Fouling Factor	0.0001			Operating Wt. (lb)	4145
Water Volume (USGAL)	10				
Min. Flow Rate (USGPM)	120				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	24 / 24 / 24		
Compressor Start Current (LRA)	2 / 4	2 / 4		
Fan QTY/FLA (each)	180 / 180 / 180	145 / 145 / 145		

Single Point				
Min. Circuit Ampacity	177			
Recommended Fuse/CB Rating	200			
Max. Inverse Time CB Rating	200			
Max. Dual Element Fuse Size (A)	200			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	84.3
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	3
Starter Type	Across the Line		Total kW	91

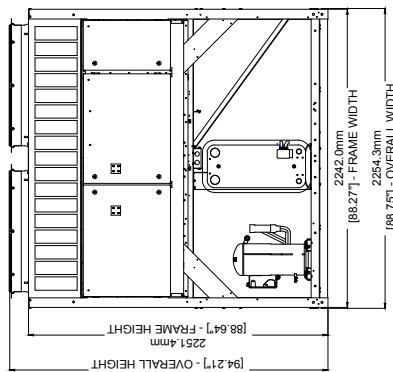
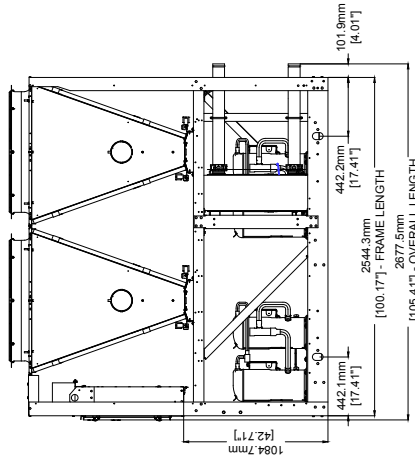
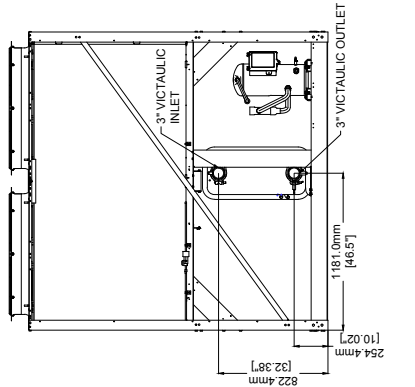
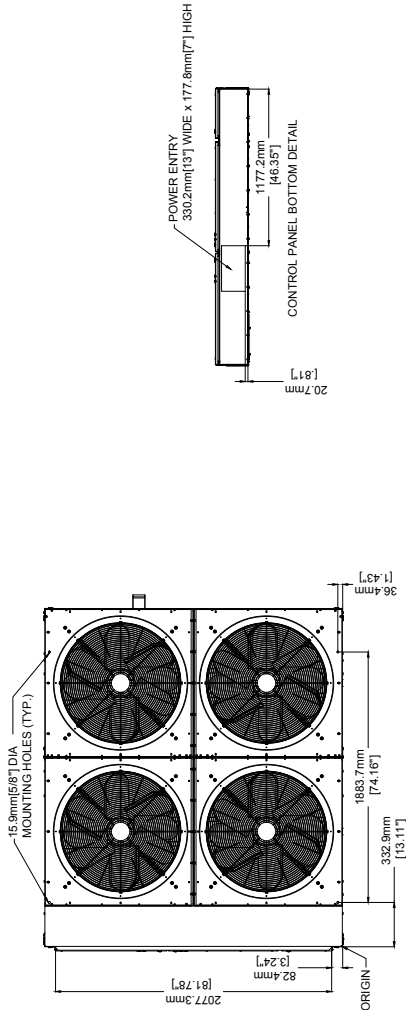
Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	78.8	91	10.4
2	88.4	70.2	71.6	11.8
3	80.3	59.5	50.6	14.1
4	71.3	47.7	36.9	15.5
5	59.1	31.7	20.2	18.8
6	55	16.8	10.3	19.6

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	96	95	91	91	87	83	80	77	93
2	88.4	96	95	91	91	87	83	80	77	93
3	80.3	96	95	91	91	87	83	80	77	93
4	71.3	96	95	91	91	87	83	80	77	93
5	59.1	93	92	88	88	84	80	77	74	90
6	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT RUSSANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST PROVIDE ADEQUATE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER SYSTEMS TO PREVENT DEGRADATION.
 - 1.1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.2. SIDE TO WALL - 1828.8mm(6')
 - 1.1.3. REAR TO WALL - 1828.8mm(6')
 - 1.1.4. CONTROL PANEL TO WALL - 1828.8mm(6')
 - 1.1.5. TOP - NO OBSTRUCTIONS ALLOWED.
 - 1.1.6. DISTANCE BETWEEN ADJACENT UNITS - 3048mm(10')
 2. HEIGHT AND CENTER OF GRAVITY REFER TO AWM REPORT.
 3. WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 - 4.1. REFER TO YORKWORKS REPORTS.
 5. FOR MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDS ONLY.



Date : 11/06/2013
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
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UNIT TAG: **UNIT0**

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
MODEL: YLAA0081HE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0089SE46	81.8	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.8
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.7
Design Flow Rate (USGPM)	169.1	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.7
Pressure Drop (ft. H ₂ O)	10.4	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	4017
Fouling Factor	0.0001			Operating Wt. (lb)	4090
Water Volume (USGAL)	8.8				
Min. Flow Rate (USGPM)	100				
Max. Flow Rate (USGPM)	385				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	27 / 27 / 27		
Compressor Start Current (LRA)	2 / 4	2 / 4		
Fan QTY/FLA (each)	180 / 180 / 180	180 / 180 / 180		

Single Point				
Min. Circuit Ampacity	184			
Recommended Fuse/CB Rating	200			
Max. Inverse Time CB Rating	200			
Max. Dual Element Fuse Size (A)	200			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	93
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	3
Starter Type	Across the Line		Total kW	99.7

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	81.8	99.7	9.8
2	88.2	72.6	76.5	11.4
3	80.7	62.2	55.4	13.5
4	71	49.1	38.5	15.3
5	59.4	33.3	21.8	18.3
6	55	16.4	10.3	19.1

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	96	95	91	91	87	83	80	77	93
2	88.2	96	95	91	91	87	83	80	77	93
3	80.7	96	95	91	91	87	83	80	77	93
4	71	96	95	91	91	87	83	80	77	93
5	59.4	93	92	88	88	84	80	77	74	90
6	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

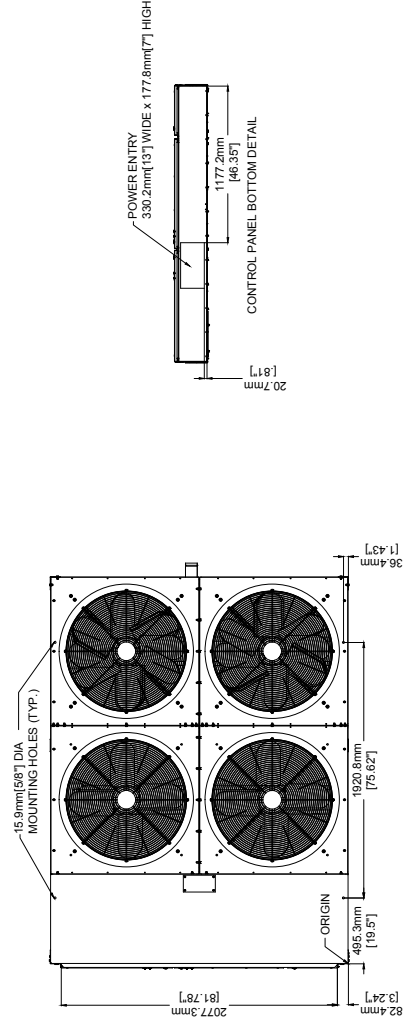


Software Version	YW14.01A
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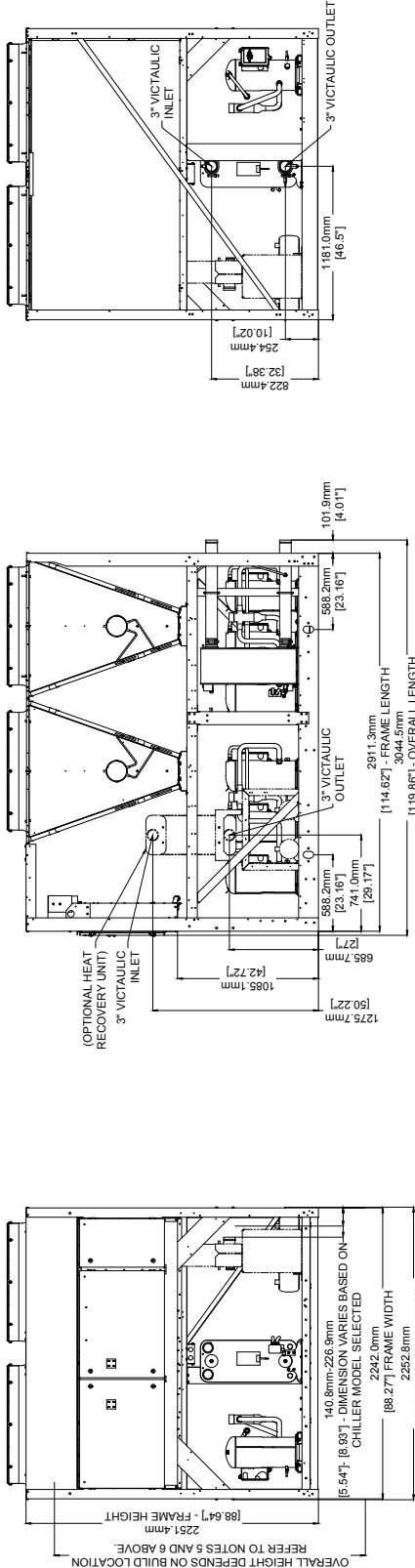


BY JOHNSON CONTROLS

MODEL: YLAA0089SE AHRI CAPACITY 81.8 TONS



- NOTES:
1. OPERATION ON A LEVEL SURFACE FREE OF OBSTRUCTIONS INCLUDING SNOW, FOR WINTER OPERATION OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE. RELIABLE OPERATION AND LEAKS OF REFRIGERANT WILL BE MINIMIZED. COMPRESSOR MINIMUM CLEARANCES AND ELEVATION RESTRICTIONS MUST BE MAINTAINED TO PREVENT SYSTEMS FROM DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF, HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.
 - 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1828.8mm [6']
 - 1.1.2. REAR TO WALL - 1828.8mm [6']
 - 1.1.3. CONTROL PANEL TO WALL - 1828.8mm [6']
 - 1.1.4. DISTANCE BETWEEN ADJACENT UNITS - 3048mm [10']
 - 1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 3048mm [10']
 - 1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
 2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVI REPORT.
 3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 - 4.1. REFER TO YORKworks REPORTS.
 5. OVERALL HEIGHT OF UNIT IS 2384.8mm [94.27"] ON MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDINGS.
 6. OVERALL HEIGHT OF UNIT IS 2507.0mm [98.70"] ON SABADELL, SPAIN BUILDINGS.
 7. FOR MONTERREY, MEXICO, SAN ANTONIO, TEXAS AND SABADELL, SPAIN BUILDS ONLY.



A JOHNSON CONTROLS COMPANY

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PRODUCT DRAWING

MODEL: YLAA0089SE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0092HE46	85.7	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	11
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	16.1
Design Flow Rate (USGPM)	205.4	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	16.1
Pressure Drop (ft. H ₂ O)	11.4	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	4647
Fouling Factor	0.0001			Operating Wt. (lb)	4720
Water Volume (USGAL)	8.8				
Min. Flow Rate (USGPM)	100				
Max. Flow Rate (USGPM)	385				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	27 / 27 / 27		
Compressor Start Current (LRA)	3 / 4	3 / 4		
Fan QTY/FLA (each)	180 / 180 / 180	180 / 180 / 180		

Single Point				
Min. Circuit Ampacity	192			
Recommended Fuse/CB Rating	200			
Max. Inverse Time CB Rating	200			
Max. Dual Element Fuse Size (A)	200			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	83.6
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	6
Starter Type	Across the Line		Total kW	93.7

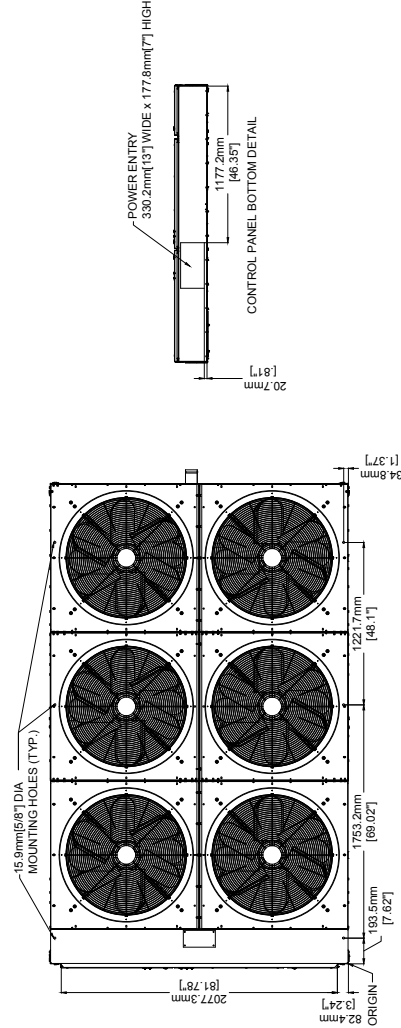
Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	85.7	93.7	11
2	87.4	74.8	72.4	12.4
3	78.9	62.7	53	14.2
4	69.1	48.7	35.9	16.3
5	58.3	33.2	21.1	18.9
6	55	16.3	10.1	19.4

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	98	97	93	93	89	85	82	79	94
2	87.4	97	96	92	92	88	84	81	78	94
3	78.9	96	95	91	91	87	83	80	77	93
4	69.1	95	94	90	90	86	82	79	76	91
5	58.3	93	92	88	88	84	80	77	74	90
6	55	90	89	85	85	81	77	74	71	87

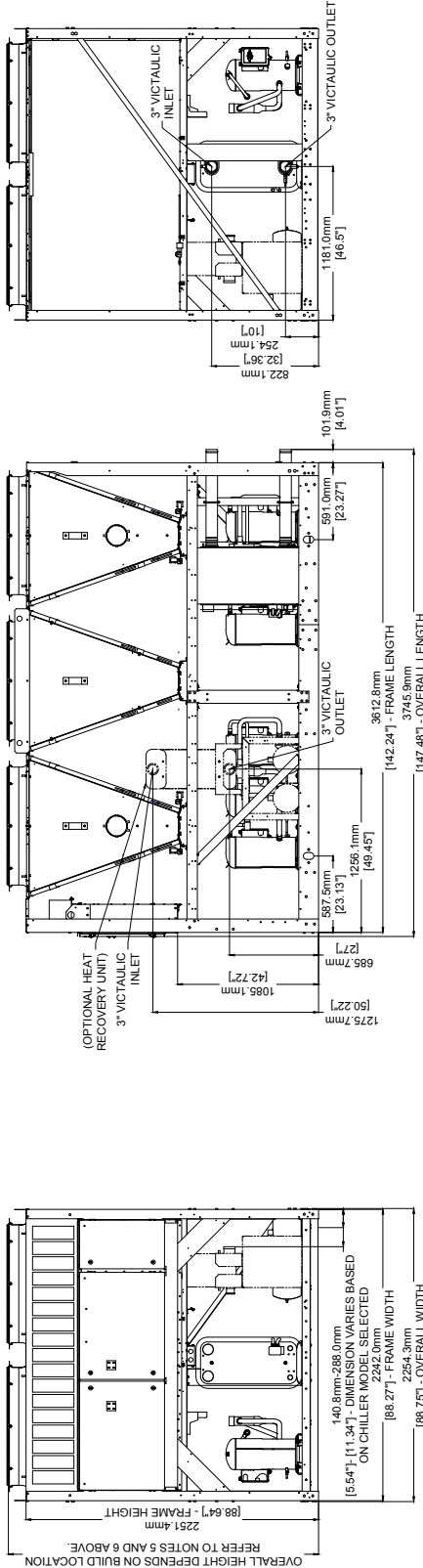
Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR CIRCULATION ENSURES RATED PERFORMANCE. RELIEF VALVE AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY PREPARE MINIMUM CLEARANCES. PROVIDE SUFFICIENT CLEARANCE FOR UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.
 - 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1828.8mm (6')
 - 1.1.2. REAR TO WALL - 1828.8mm (6')
 - 1.1.3. REAR TO WALL - 1828.8mm (6')
 - 1.1.4. TOP TO OBSTRUCTIONS - 1828.8mm (6')
 - 1.1.5. TOP TO OBSTRUCTIONS - 1828.8mm (6')
 - 1.1.6. NO MORE THAN ONE ADJACENT UNITS - 3048mm (10')
 2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVM REPORT.
 3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 - 4.1. REFER TO YORKWORKS REPORTS.
 5. OVERALL HEIGHT OF UNIT IS 2394.9mm (94.27') ON MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDINGS.
 6. OVERALL HEIGHT OF UNIT IS 2507.0mm (98.70') ON SABADELL, SPAIN BUILDINGS.
 7. FOR MONTERREY, MEXICO, SAN ANTONIO, TEXAS AND SABADELL, SPAIN BUILDS ONLY.



Date : 11/06/2013
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT0**

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0092HE46
NOT FOR CONSTRUCTION

YLAA
55 TO 90

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0100SE46	95.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.6
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.3
Design Flow Rate (USGPM)	299.1	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	14.5
Pressure Drop (ft. H ₂ O)	14	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	4581
Fouling Factor	0.0001			Operating Wt. (lb)	4654
Water Volume (USGAL)	8.8				
Min. Flow Rate (USGPM)	100				
Max. Flow Rate (USGPM)	385				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	54 / 54		
Compressor Start Current (LRA)	3 / 4	2 / 4		
Fan QTY/FLA (each)	187 / 187 / 187	310 / 310		

Single Point				
Min. Circuit Ampacity	223			
Recommended Fuse/CB Rating	250			
Max. Inverse Time CB Rating	250			
Max. Dual Element Fuse Size (A)	250			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	111.5
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	4.5
Starter Type	Across the Line		Total kW	119.9

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	95.6	119.9	9.6
2	89.3	86.5	96.9	10.7
3	75.5	64.4	53.8	14.4
4	64.7	47.4	37.7	15.1
5	55	16	10.2	18.7

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	97	96	92	92	89	85	82	78	94
2	89.3	97	96	92	92	89	85	82	78	94
3	75.5	97	96	92	92	88	84	81	78	94
4	64.7	93	92	88	88	85	81	78	75	90
5	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0101HE46	98.3	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.4
Design Flow Rate (USGPM)	235.5	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.7
Pressure Drop (ft. H ₂ O)	14.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	4743
Fouling Factor	0.0001			Operating Wt. (lb)	4816
Water Volume (USGAL)	8.8				
Min. Flow Rate (USGPM)	100				
Max. Flow Rate (USGPM)	385				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	54 / 54		
Compressor Start Current (LRA)	4 / 4	2 / 4		
Fan QTY/FLA (each)	187 / 187 / 187	310 / 310		

Single Point				
Min. Circuit Ampacity	227			
Recommended Fuse/CB Rating	250			
Max. Inverse Time CB Rating	250			
Max. Dual Element Fuse Size (A)	250			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	106.1
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	7.5
Starter Type	Across the Line		Total kW	116.2

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	98.3	116.2	10.1
2	89.5	89.3	92.9	11.5
3	75	65.6	53.8	14.6
4	65.7	50.2	35.6	17
5	55	16	10.2	19

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	98	97	93	93	89	86	82	79	95
2	89.5	98	97	93	93	89	85	82	79	95
3	75	98	97	93	93	89	85	82	79	94
4	65.7	95	94	90	90	86	82	79	76	92
5	55	90	89	85	85	81	77	74	71	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

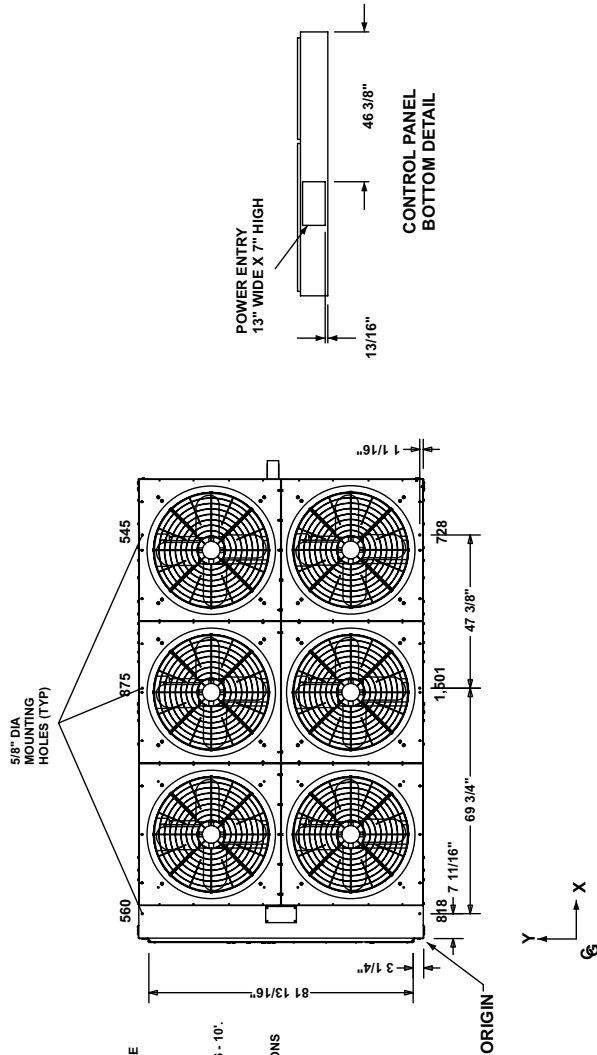


Software Version	YW14.01A
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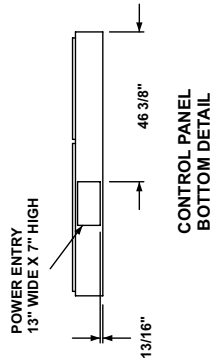
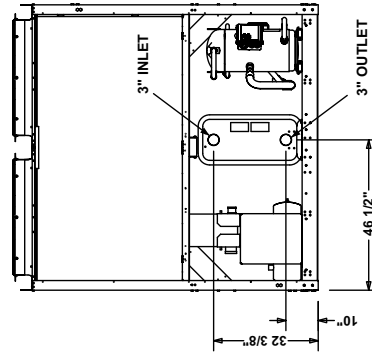
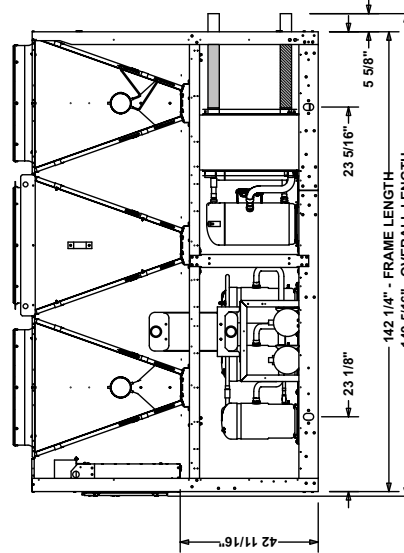
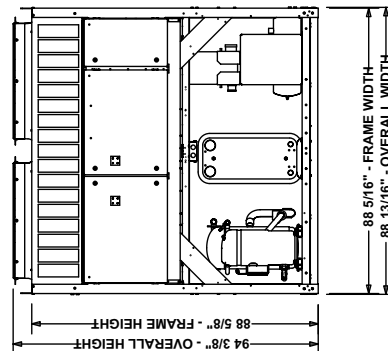


BY JOHNSON CONTROLS

MODEL: YLAA0101HE AHRI CAPACITY 98.3 TONS



- NOTES:
1. SNOW REMOVAL ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW FOR WINTER OPERATION) OF AIR RECIRCULATION ENSURES RATED PERFORMANCE. RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. RECOMMENDED MINIMUM CLEARANCES: (OVERALL HEIGHT) 94 3/8" (OVERALL WIDTH) 88 13/16" (OVERALL LENGTH) 149 5/16". NO OBSTRUCTIONS ALLOWED. DISTANCE BETWEEN ADJACENT UNITS - 10". NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN THE UNIT.
 2. WEIGHTS (LB): SHIPPING - 4,954, OPERATING - 5,027.
 3. CENTER OF GRAVITY FROM ORIGIN: X= 69.8", Y= 53.2".
 4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.



Date : 12/18/2012 12:58:34
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: UNIT1

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0101HE46
NOT FOR CONSTRUCTION

YLAA
91 TO 130

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0120SE46	118.1	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.8
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.8
Design Flow Rate (USGPM)	283.1	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15
Pressure Drop (ft. H ₂ O)	16.1	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	4993
Fouling Factor	0.0001			Operating Wt. (lb)	5104
Water Volume (USGAL)	13.2				
Min. Flow Rate (USGPM)	150				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	54 / 54	54 / 54		
Compressor Start Current (LRA)	3 / 4	3 / 4		
Fan QTY/FLA (each)	310 / 310	310 / 310		

Single Point				
Min. Circuit Ampacity	256			
Recommended Fuse/CB Rating	300			
Max. Inverse Time CB Rating	300			
Max. Dual Element Fuse Size (A)	300			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	134.6
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	6
Starter Type	Across the Line		Total kW	144.7

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	118.1	144.7	9.8
2	84.1	96.6	94.2	12.3
3	71	70.9	53.2	16
4	55	33	23.7	16.7

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	98	97	93	93	90	86	83	79	95
2	84.1	98	97	93	93	89	86	83	79	95
3	71	98	97	93	93	89	85	82	79	95
4	55	90	89	85	85	82	79	75	72	87

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0125HE46	116	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.3
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.7
Design Flow Rate (USGPM)	287.1	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.7
Pressure Drop (ft. H ₂ O)	19.4	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	5969
Fouling Factor	0.0001			Operating Wt. (lb)	6042
Water Volume (USGAL)	8.8				
Min. Flow Rate (USGPM)	100				
Max. Flow Rate (USGPM)	385				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53	53 / 53		
Compressor Start Current (LRA)	4 / 4	4 / 4		
Fan QTY/FLA (each)	290 / 290	290 / 290		

Single Point				
Min. Circuit Ampacity	258			
Recommended Fuse/CB Rating	300			
Max. Inverse Time CB Rating	300			
Max. Dual Element Fuse Size (A)	300			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	122
Wire Range (Lug Size)	#6 - 500 kcmil		Total Fan kW	12
Starter Type	Across the Line		Total kW	135.5

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	116	135.5	10.3
2	83.9	94.6	90.2	12.6
3	69.7	67.2	50.3	16
4	55	34.9	21.7	19.3

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	99	98	94	94	91	87	84	81	96
2	83.9	99	98	94	94	90	87	84	80	96
3	69.7	96	95	91	91	88	84	81	78	93
4	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power.



Software Version	YW14.01A
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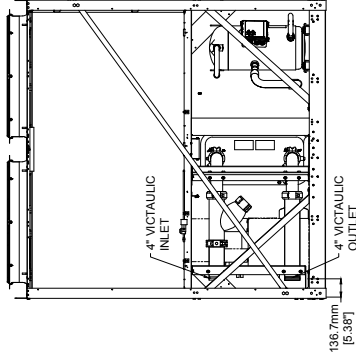
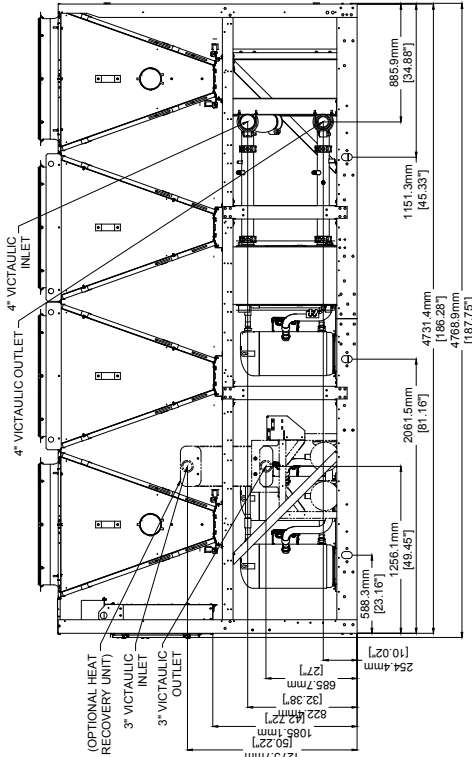
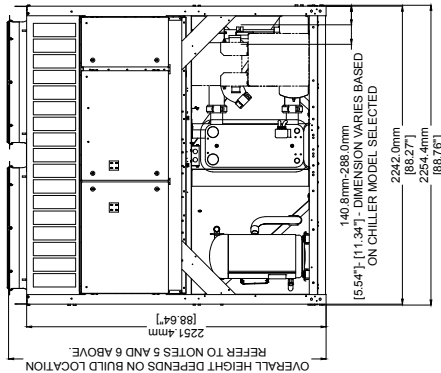
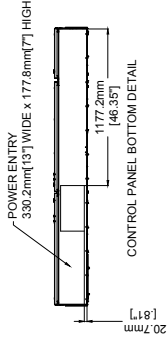
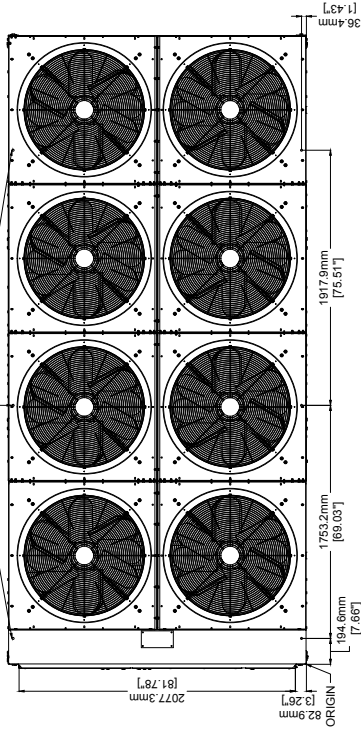
BY JOHNSON CONTROLS

MODEL: YLAA0125HE AHRI CAPACITY 116 TONS

NOTES:

1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR-RE-CIRCULATION ENSURES RATED PERFORMANCE. FOR WINTER OPERATION, THE UNIT MUST BE INSTALLED WITH A MINIMUM CLEARANCE OF 10' (3.05M) FROM ANY OBSTRUCTION. SITE RESTRICTIONS MAY REQUIRE THE UNIT TO BE INSTALLED AT A HEIGHT ABOVE THE FLOOR, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUT-OUT, HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.
- 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1628.8mm [6]
 - 1.1.2. REAR TO WALL - 1628.8mm [6]
 - 1.1.3. CONTROL PANEL - 1628.8mm [6]
 - 1.1.4. TOP - NO OBSTRUCTIONS ALLOWED.
 - 1.1.5. NO MORE THAN ONE ADJACENT UNIT - 3048mm [10]
 - 1.1.6. DISTANCE BETWEEN ADJACENT WALLS - 3048mm [10]
2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVM REPORT.
3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
5. REFER TO WORKSHEETS.
6. OVERALL HEIGHT OF UNIT IS 2507.0mm [98.70'] ON MONTERREY, MEXICO AND SAN ANTONIO, TEXAS BUILDS.
7. OVERALL HEIGHT OF UNIT IS 2507.0mm [98.70'] ON SABADELL, SPAIN BUILDS.
8. FOR MONTERREY, MEXICO, SAN ANTONIO, TEXAS AND SABADELL, SPAIN BUILDS ONLY.

15.9mm (5/8") DIA. MOUNTING HOLES (TYP.)



PRODUCT DRAWING

MODEL: YLAA0125HE46
NOT FOR CONSTRUCTION

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT0**

Date : 11/06/2013
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS



YLAA
91 TO 130

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0136SE46	126.1	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.6
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.7
Design Flow Rate (USGPM)	302.2	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.7
Pressure Drop (ft. H ₂ O)	20.4	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	6103
Fouling Factor	0.0001			Operating Wt. (lb)	6187
Water Volume (USGAL)	10				
Min. Flow Rate (USGPM)	120				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53 / 53	27 / 27 / 27		
Compressor Start Current (LRA)	4 / 4	4 / 4		
Fan QTY/FLA (each)	290 / 290 / 290	180 / 180 / 180		

Single Point				
Min. Circuit Ampacity	285			
Recommended Fuse/CB Rating	300			
Max. Inverse Time CB Rating	300			
Max. Dual Element Fuse Size (A)	300			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	144
Wire Range (Lug Size)	#4 - 500 kcmil		Total Fan kW	12
Starter Type	Across the Line		Total kW	157.5

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	126.1	157.5	9.6
2	86.4	108	106.2	12.2
3	80.5	95.7	86.2	13.3
4	67	67.3	48.6	16.6
5	59.8	52.1	34.8	18
6	55	35	21.9	19.1

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	99	98	94	94	90	97	84	80	96
2	86.4	99	98	94	94	90	97	83	80	96
3	80.5	98	97	93	93	90	86	83	80	95
4	67	96	95	91	91	87	84	80	77	93
5	59.8	96	95	91	91	87	84	80	77	93
6	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power.



Software Version	YW14.01A
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Date : 5/21/2013 15:16:15

Rev. Date :

Form :

Dwg. Lev.:
Dwg. Scale: NTS

Sold To :
Cust Purch Order# :
York Contract# :

York Contract# :

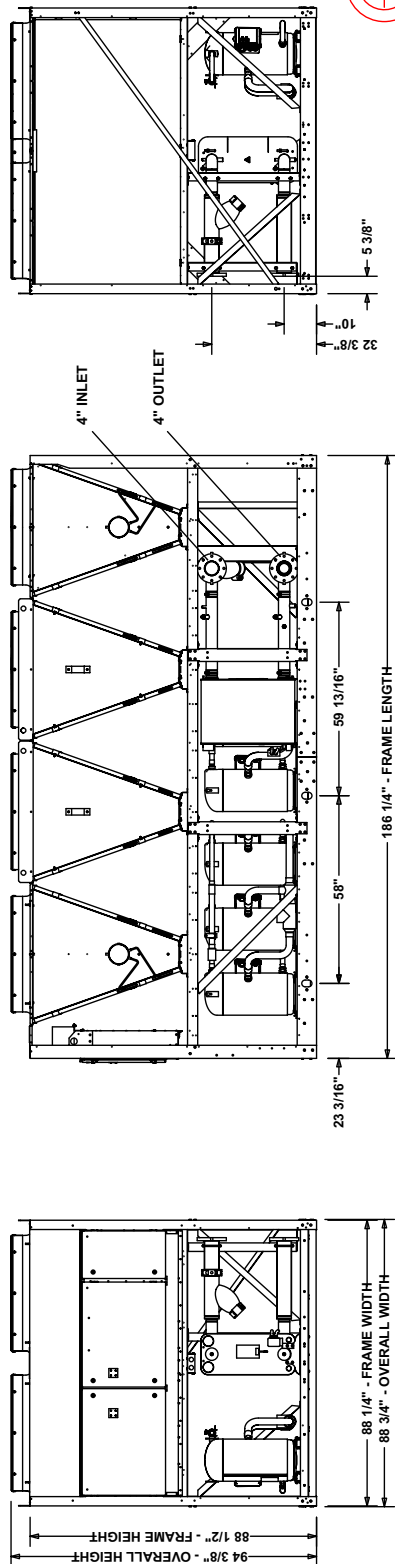
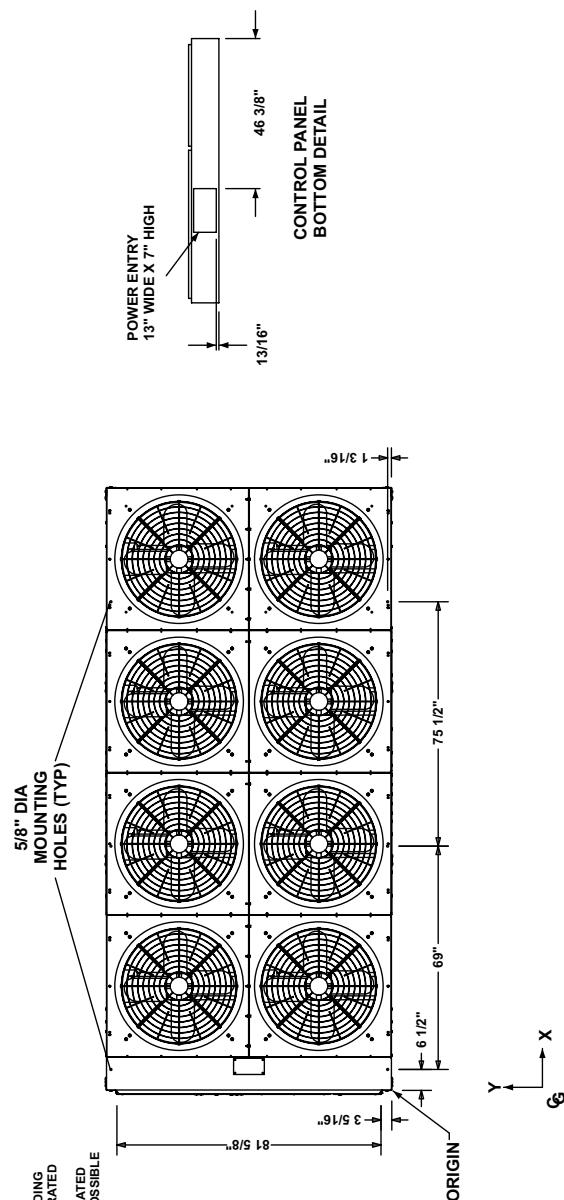
UNIT 1

Project Name : cg ylaa
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0136SE46
NOT FOR CONSTRUCTION

YLAA
91 TO 130



- NOTES:

- PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION ENSURES RATED PERFORMANCE. RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.

RECOMMENDED MINIMUM CLEARANCES:

- SIDE TO WALL - 6'
REAR TO WALL - 6'
CONTROL PANEL TO WALL - 4'
TOP - NO OBSTRUCTIONS ALLOWED
DISTANCE BETWEEN ADJACENT UNITS - 10'.
NO MORE THAN ONE ADJACENT WALL MAY
BE HIGHER THAN THE UNIT.

2. WEIGHTS (LB): SHIPPING - 6,102; OPERATING - 6,186.
3. CENTER OF GRAVITY FROM ORIGIN: X= 82.6"; Y= 51.9" .
4. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.

Air-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0142HE46	129.5	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.2
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.9
Design Flow Rate (USGPM)	310.4	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.9
Pressure Drop (ft. H ₂ O)	17.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	6214
Fouling Factor	0.0001			Operating Wt. (lb)	6324
Water Volume (USGAL)	13.2				
Min. Flow Rate (USGPM)	150				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53 / 53	27 / 27 / 27		
Compressor Start Current (LRA)	5 / 4	3 / 4		
Fan QTY/FLA (each)	290 / 290 / 290	180 / 180 / 180		

Single Point				
Min. Circuit Ampacity	285			
Recommended Fuse/CB Rating	300			
Max. Inverse Time CB Rating	300			
Max. Dual Element Fuse Size (A)	300			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	138.9
Wire Range (Lug Size)	#4 - 500 kcmil		Total Fan kW	10.5
Starter Type	Across the Line		Total kW	152.3

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	129.5	152.3	10.2
2	85.8	109.7	103.5	12.7
3	80.2	97.5	84.6	13.8
4	66.2	67.4	48	16.9
5	58.8	51.4	33.8	18.3
6	55	34.4	21.5	19.2

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	99	98	94	94	91	97	84	80	96
2	85.8	99	98	94	94	90	97	83	80	96
3	80.2	99	98	94	94	90	97	83	80	96
4	66.2	97	96	92	92	88	84	81	78	94
5	58.8	96	95	91	91	87	84	80	77	93
6	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power.

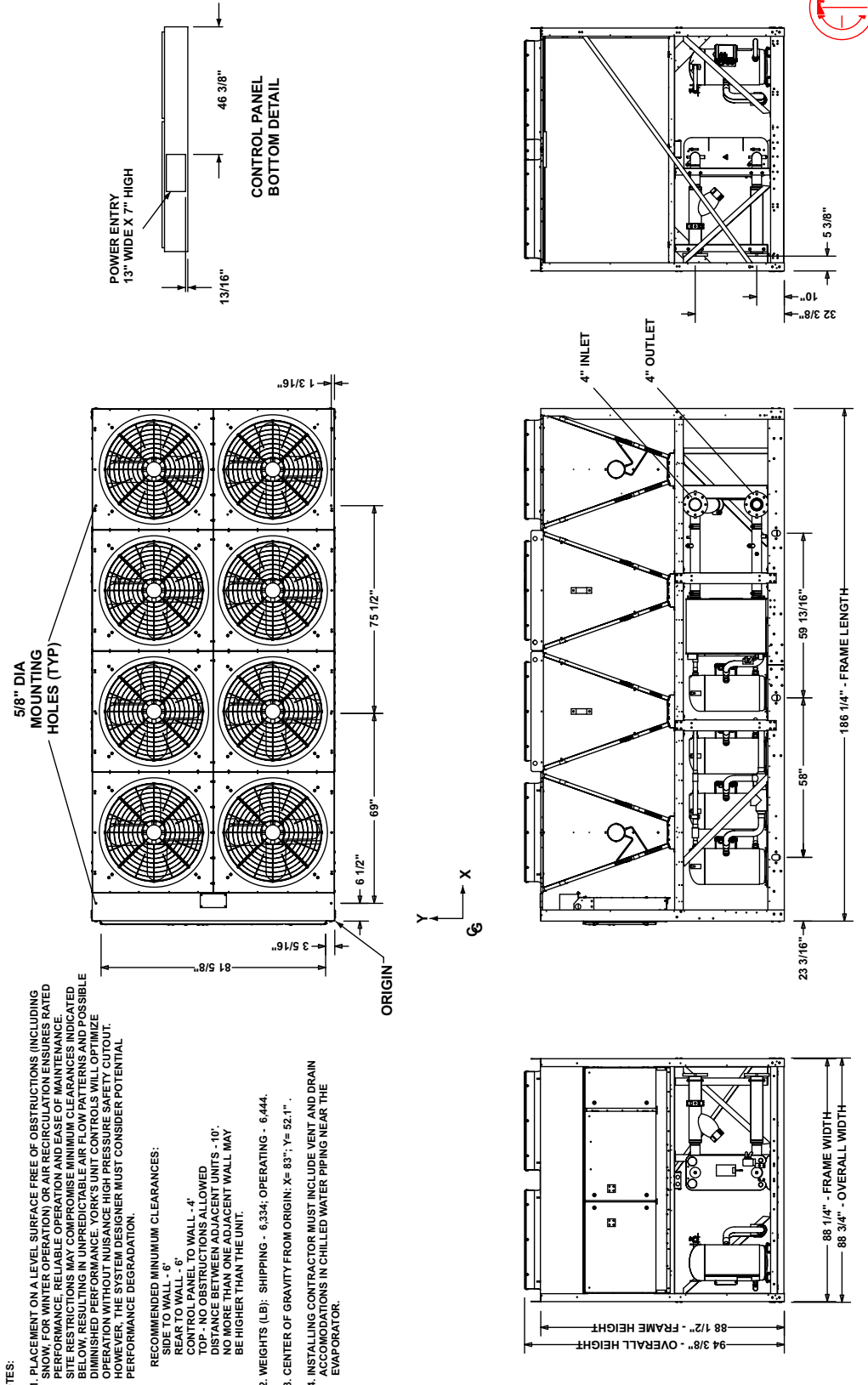


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YLAA0142HE AHRI CAPACITY 129.5 TONS



PRODUCT DRAWING

MODEL: YLAA0142HE46
NOT FOR CONSTRUCTION

Project Name : cg ylaa
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT2**

Date : 5/21/2013 15:16:37
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

YORK
A JOHNSON CONTROLS COMPANY

YLAA
91 TO 130



BY JOHNSON CONTROLS

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0155SE46	143	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.6
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.6
Design Flow Rate (USGPM)	342.8	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.6
Pressure Drop (ft. H ₂ O)	21.7	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	6339
Fouling Factor	0.0001			Operating Wt. (lb)	6449
Water Volume (USGAL)	13.2				
Min. Flow Rate (USGPM)	150				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53	53 / 53 / 53		
Compressor Start Current (LRA)	4 / 4	4 / 4		
Fan QTY/FLA (each)	290 / 290	290 / 290 / 290		

Single Point				
Min. Circuit Ampacity	311			
Recommended Fuse/CB Rating	350			
Max. Inverse Time CB Rating	350			
Max. Dual Element Fuse Size (A)	350			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	165
Wire Range (Lug Size)	#4 - 500 kcmil		Total Fan kW	12
Starter Type	Across the Line		Total kW	178.5

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	143	178.5	9.6
2	87.3	124.6	125.7	11.9
3	76.7	99.4	84.8	14.1
4	63.8	68.6	47.7	17.2
5	55	34.3	21.7	18.9

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	99	98	94	94	91	87	84	81	96
2	87.3	99	98	94	94	91	87	84	81	96
3	76.7	99	98	94	94	90	87	84	80	96
4	63.8	96	95	91	91	88	84	81	78	93
5	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

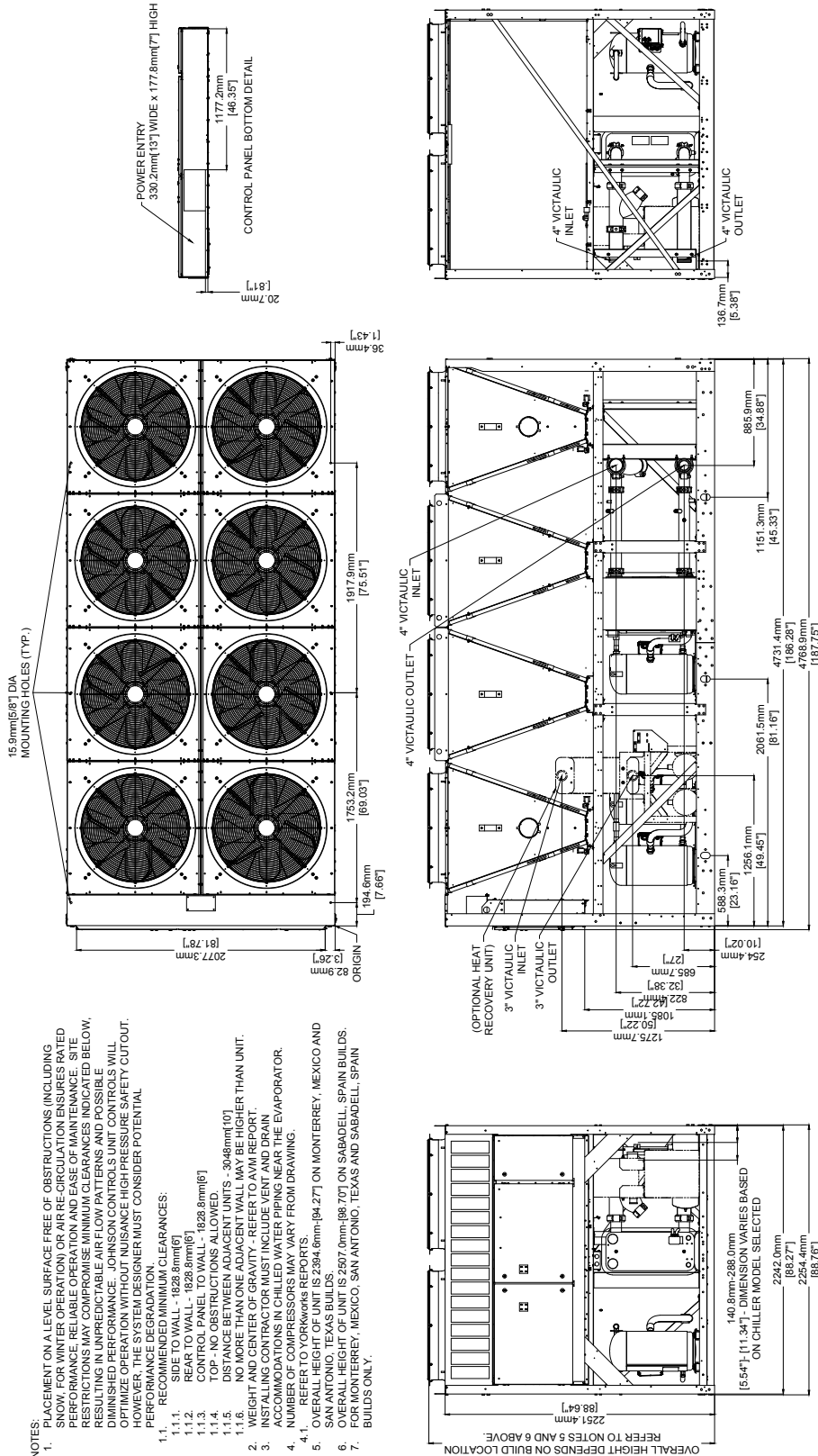


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YLAA0155SE AHRI CAPACITY 143 TONS



- NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR-RE-CIRCULATION ENSURES RATED PERFORMANCE. FOR WINTER OPERATION, THE UNIT MUST BE INSTALLED IN A LOCATION THAT PROVIDES PROTECTION FROM WIND AND EXPOSED TO A MINIMUM OF 10% OF THE RATED CAPACITY. SITE RESTRICTIONS MAY REQUIRE THE UNIT TO BE INSTALLED IN A LOCATION THAT RESULTS IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUT-OUT. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.
 - 1.1. RECOMMENDED MINIMUM CLEARANCES:
 - 1.1.1. SIDE TO WALL - 1828.8mm [6']
 - 1.1.2. REAR TO WALL - 1828.8mm [6']
 - 1.1.3. CONTROL PANEL - 1828.8mm [6']
 - 1.1.4. TOP - NO OBSTRUCTIONS ALLOWED.
 - 1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 3048mm [10']
 - 1.1.6. NO MORE THAN ONE ADJACENT UNIT MAY BE HIGHER THAN UNIT.
 2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVM REPORT.
 3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
 5. REFER TO WORKSHEETS FOR PORTS.
 6. OVERALL HEIGHT OF UNIT IS 2507.0mm [98.70'] ON SABADELL, SPAIN BUILDS.
 7. FOR MONTERREY, MEXICO, SAN ANTONIO, TEXAS AND SABADELL, SPAIN BUILDS ONLY.



Date : 11/06/2013
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT0**

Project Name :
YLAA
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0155HE46
NOT FOR CONSTRUCTION

YLAA
131 TO 175



BY JOHNSON CONTROLS

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0156HE46	144.5	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	10.2
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.5
Design Flow Rate (USGPM)	346.4	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.5
Pressure Drop (ft. H ₂ O)	26.4	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	7269
Fouling Factor	0.0001			Operating Wt. (lb)	7353
Water Volume (USGAL)	10				
Min. Flow Rate (USGPM)	120				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53	53 / 53 / 53		
Compressor Start Current (LRA)	6 / 4	4 / 4		
Fan QTY/FLA (each)	290 / 290	290 / 290 / 290		

Single Point				
Min. Circuit Ampacity	319			
Recommended Fuse/CB Rating	350			
Max. Inverse Time CB Rating	350			
Max. Dual Element Fuse Size (A)	350			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	1		Compressor kW	153
Wire Range (Lug Size)	#4 - 500 kcmil		Total Fan kW	15
Starter Type	Across the Line		Total kW	169.8

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	144.5	169.8	10.2
2	86.8	124.8	125.2	12
3	75.6	97.8	82.5	14.2
4	64.2	70.4	50	16.9
5	55	34.6	21.9	19

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	100	99	95	95	92	88	85	82	97
2	86.8	100	99	95	95	91	88	85	81	97
3	75.6	98	97	93	93	89	86	83	79	95
4	64.2	98	97	93	93	89	85	82	79	95
5	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

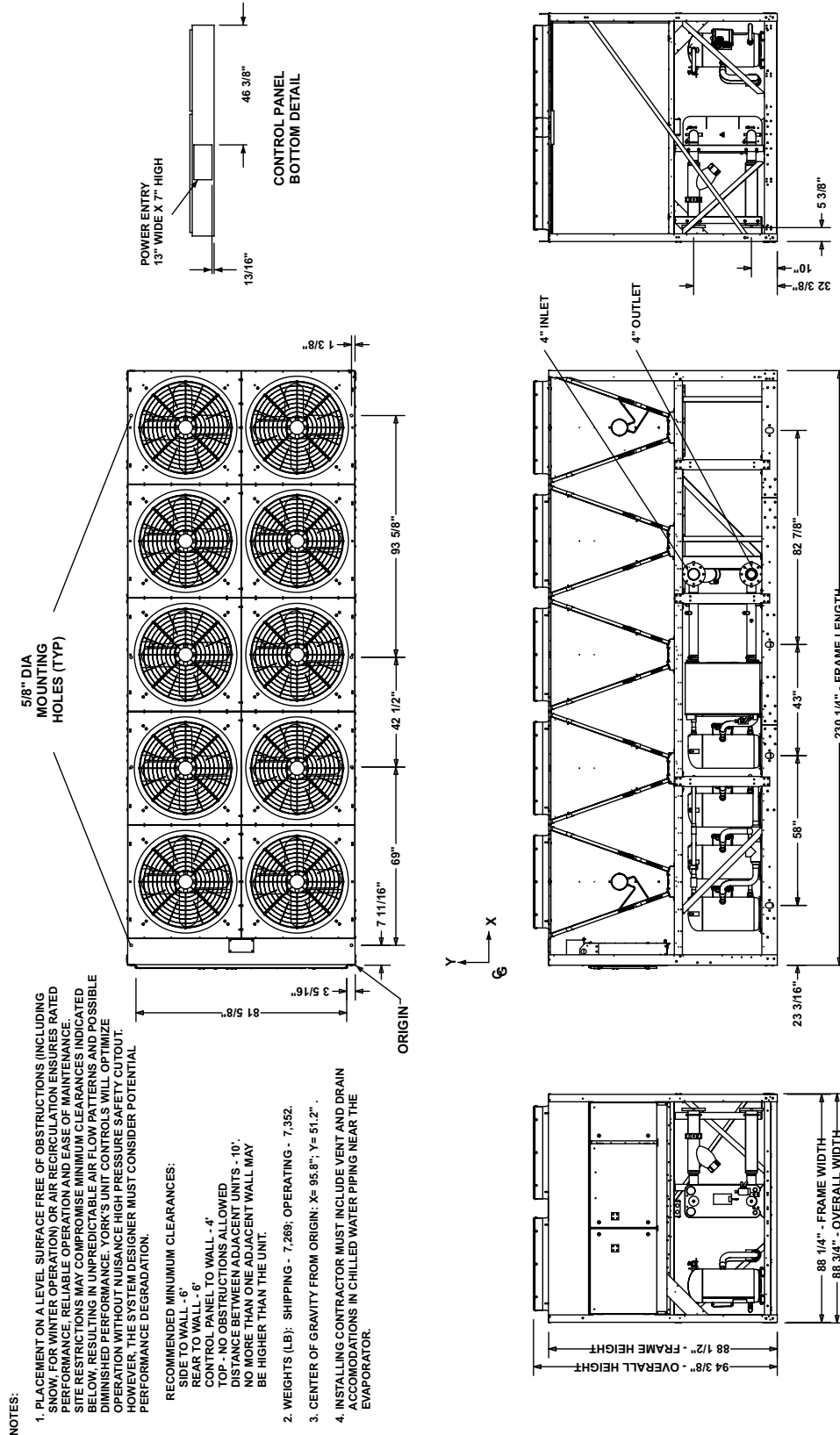


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YLAA0156HE AHRI CAPACITY 144.5 TONS



Date : 5/21/2013 15:16:58
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT3**

Project Name : cg ylaa
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
MODEL: YLAA0156HE46
NOT FOR CONSTRUCTION

YLAA
131 TO 175



BY JOHNSON CONTROLS

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0170SE46	167.4	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.6
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.6
Design Flow Rate (USGPM)	401.3	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.6
Pressure Drop (ft. H ₂ O)	34.8	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	7624
7708	0.0001			Operating Wt. (lb)	
Water Volume (USGAL)	10				
Min. Flow Rate (USGPM)	120				
Max. Flow Rate (USGPM)	625				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53 / 53	53 / 53 / 53		
Compressor Start Current (LRA)	5 / 4	5 / 4		
Fan QTY/FLA (each)	290 / 290 / 290	290 / 290 / 290		

Single Point				
Min. Circuit Ampacity	372			
Recommended Fuse/CB Rating	400			
Max. Inverse Time CB Rating	400			
Max. Dual Element Fuse Size (A)	400			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	2		Compressor kW	192.1
Wire Range (Lug Size)	#4 - 500 kcmil		Total Fan kW	15
Starter Type	Across the Line		Total kW	208.9

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	167.4	208.9	9.6
2	88.2	148.5	159.1	11.2
3	80.8	127.9	115.6	13.3
4	71.	101.5	81.1	15
5	59.9	69.5	45.6	18.3
6	55	34.5	21.6	19.2

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	100	99	95	95	92	88	85	82	97
2	88.2	100	99	95	95	92	88	85	82	97
3	80.8	100	99	95	95	91	88	85	81	97
4	71.	100	99	95	95	91	88	84	81	97
5	59.9	96	95	91	91	88	84	81	78	93
6	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

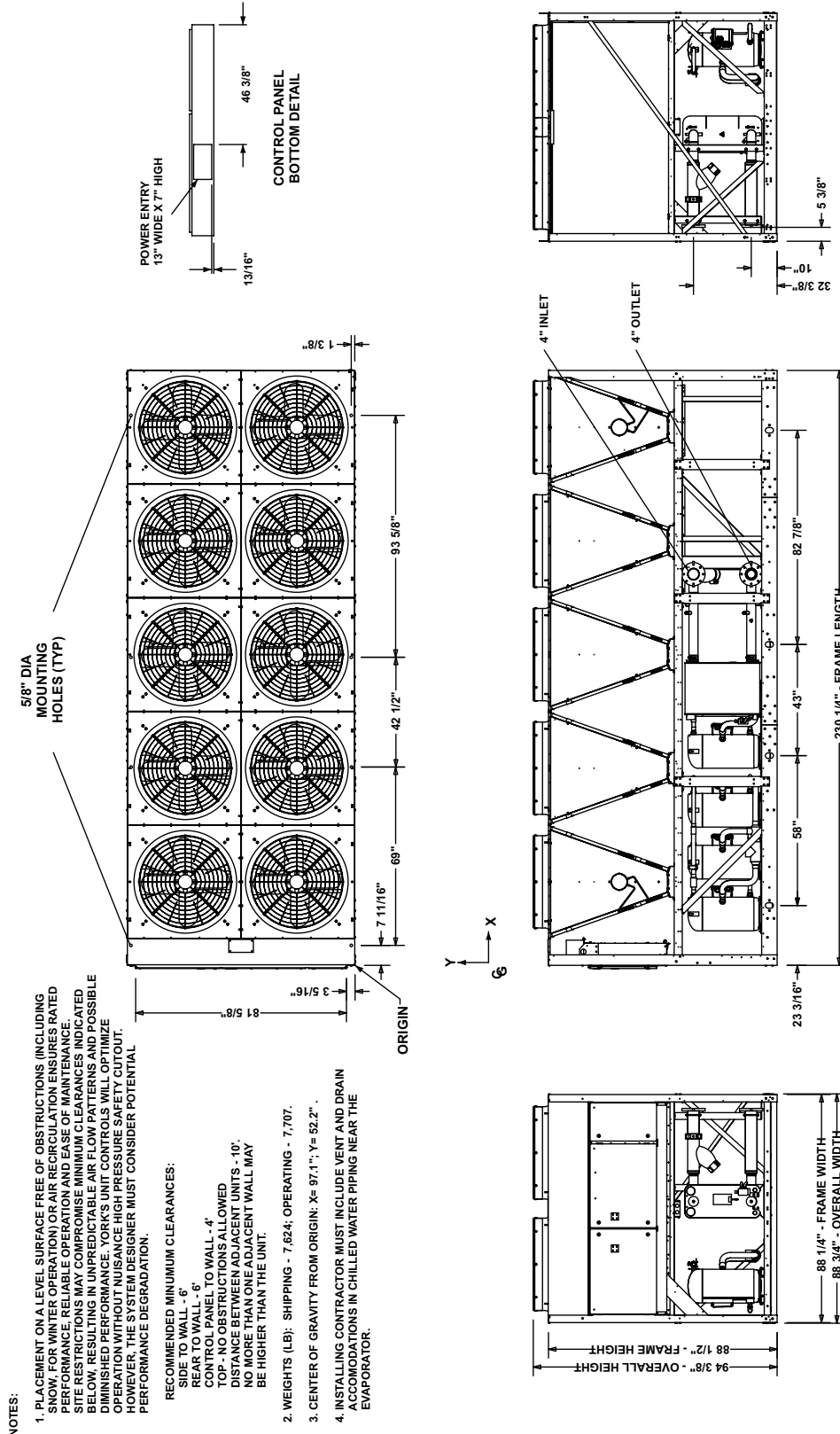


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YLAA0170SE AHRI CAPACITY 167.4 TONS



A JOHNSON CONTROLS COMPANY

Date : 5/21/2013 15:17:18
Rev. Date :
Form :
Dwg. Lev. : NTS
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT4**

Project Name : cg y/laa
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
MODEL: YLAA0170SE46
NOT FOR CONSTRUCTION

YLAA
131 TO 175



BY JOHNSON CONTROLS

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YLAA0175HE46	172.5	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.8
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.6
Design Flow Rate (USGPM)	413.5	User Min. Operating Air Temp. (°F)	41	NPLV (EER)	15.6
Pressure Drop (ft. H ₂ O)	30.4	User Max. Operating Air Temp. (°F)	100	Physical Data	
Fluid	Water			Rigging Wt. (lb)	7772
Fouling Factor	0.0001			Operating Wt. (lb)	7891
Water Volume (USGAL)	5.4				
Min. Flow Rate (USGPM)	60				
Max. Flow Rate (USGPM)	285				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	53 / 53 / 53	53 / 53 / 53		
Compressor Start Current (LRA)	5 / 4	5 / 4		
Fan QTY/FLA (each)	290 / 290 / 290	290 / 290 / 290		

Single Point				
Min. Circuit Ampacity	372			
Recommended Fuse/CB Rating	400			
Max. Inverse Time CB Rating	400			
Max. Dual Element Fuse Size (A)	400			
Unit Short Circuit Withstand (STD)	5 [kA]		Operating Condition Electrical Data	
Wire Lugs Per Phase	2		Compressor kW	194.2
Wire Range (Lug Size)	#4 - 500 kcmil		Total Fan kW	15
Starter Type	Across the Line		Total kW	211

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
1	95	172.5	211	9.8
2	88.1	152.7	160.3	11.4
3	80.5	130.8	116	13.5
4	70.7	102.7	81	15.2
5	59.1	69.2	45.3	18.3
6	55	34.1	21.6	18.9

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
1	95	100	99	95	95	92	88	88	82	97
2	88.1	100	99	95	95	92	88	88	82	97
3	80.5	100	99	95	95	91	88	88	81	97
4	70.7	100	99	95	95	91	88	84	81	97
5	59.1	96	95	91	91	88	84	81	78	93
6	55	93	92	88	88	85	81	78	75	90

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

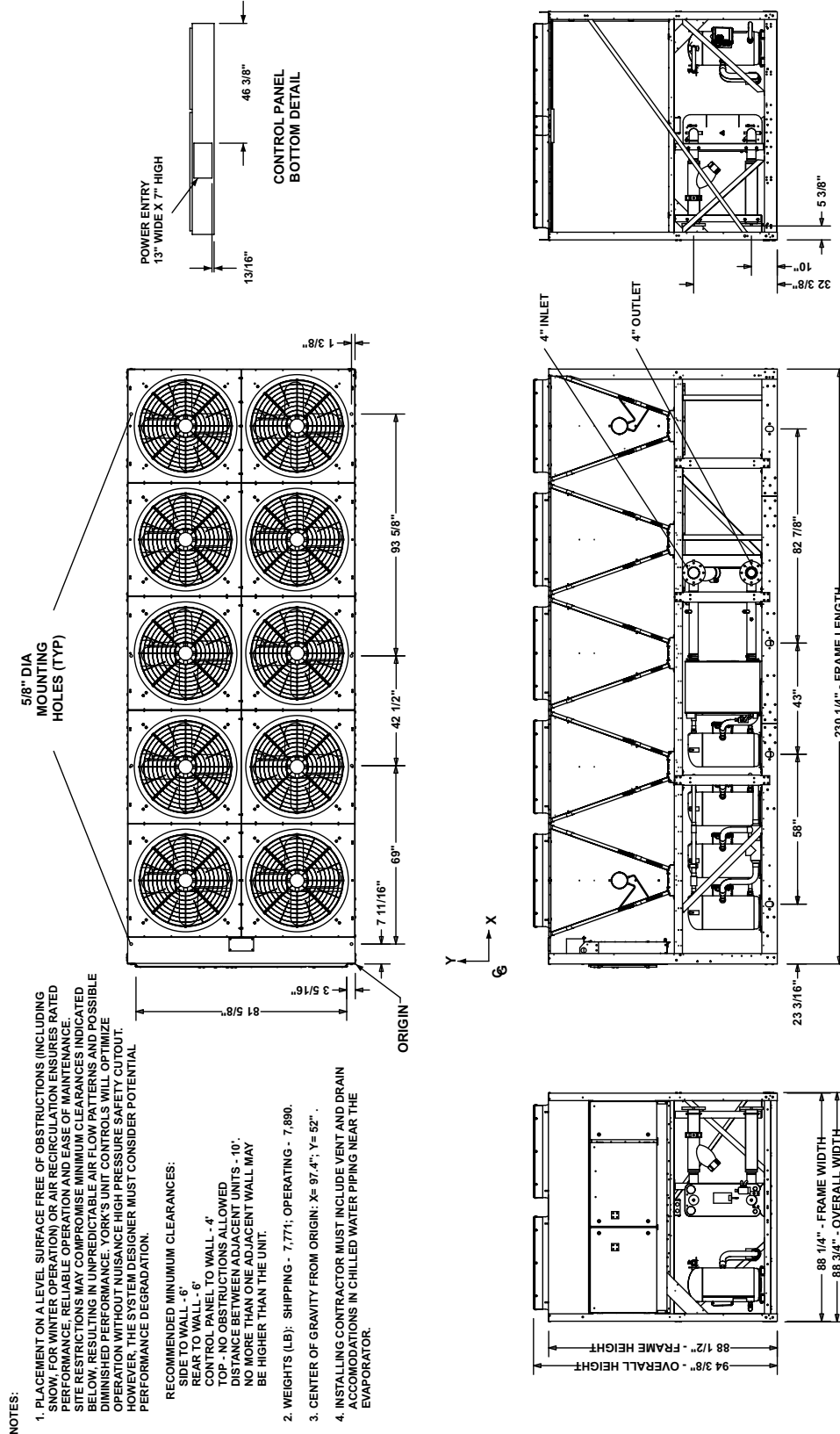


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YLAA0175HE AHRI CAPACITY 172.5 TONS



A JOHNSON CONTROLS COMPANY

Date : 5/21/2013 15:17:39
Rev. Date :
Form :
Dwg. Lev. :
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT TAG: **UNIT5**

Project Name : cg ylaa
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING

MODEL: YLAA0175HE46
NOT FOR CONSTRUCTION

YLAA
131 TO 175

YVAA

150 to 500 Tons

Air-Cooled Screw Chiller



YVAA RIGGING

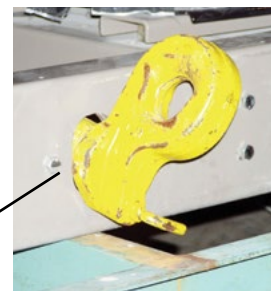
Lifting Unit

Container lugs should be inserted into the holes provided in the bottom of the frame rail.

Use spreader bars to avoid lifting chains hitting the chiller. Various methods of spreader bar arrangements may be used; keeping in mind the intent is to keep the unit stable and to keep the chains from hitting the chiller and causing damage.

WARNING — Never lift the chiller using a forklift or by hooking the top rails. Use only the lifting holes provided.

Lifting instructions are placed on a label on the chiller and on the shipping bag.



Delivery and Storage

To ensure consistent quality and maximum reliability, all units are tested and inspected before leaving the factory. Units are shipped completely assembled and containing refrigerant under pressure. Units are shipped without export crating unless crating has been specified on the Sales Order.

If the unit is to be put into storage, prior to installation, the following precautions should be observed.

- The chiller must be “blocked” so that the base is not permitted to sag or bow.
- Ensure that all openings, such as water connections, are securely capped.
- Do not store where exposed to ambient air temperatures exceeding 43°C (110°F).
- The condensers should be covered to protect the coils and fins from potential damage and corrosion, particularly where building work is in progress.
- The unit should be stored in a location where there is minimal activity in order to limit the risk of accidental physical damage.
- To prevent inadvertent operation of the pressure relief devices the unit must not be steam cleaned.
- It is recommended that the unit is periodically inspected during storage.

Inspection

Remove any transit packing and inspect the unit to ensure that all components have been delivered and that no damage has occurred during transit. If any damage is evident, it should be noted on the carrier’s freight bill and a claim entered in accordance with the instructions given on the advice note.

Major damage must be reported immediately to your local Johnson Controls representative.

Moving the Chiller

Prior to moving the unit, ensure that the installation site is suitable for installing the unit and is easily capable of supporting the weight of the unit and all associated services.

The units are designed to be lifted using shackles or safety hooks. A spreader bar or frame should be used in order to prevent damage to the unit from the lifting chains. (Refer to Figure 4 on Page 20 of the Operations and Maintenance Guide [Form 201.28-NM1.1] for hooks.)

Units are provided with lifting eyes in the sites of the base frame, which can be attached directly using container lugs, shackles or safety hooks (Refer to the Operations and Maintenance Guide [Form 201.28-NM1.1] for proper lifting illustration).

WARNING — The unit must only be lifted by the base frame at the points provided. Never move the unit on rollers, or lift the unit using a forklift truck.

Care should be taken to avoid damaging the condenser cooling fins when moving the unit.

Lifting Weights

For details of weights and weight distribution, refer to the data shipped in the chiller information packet and unit nameplate.



BY JOHNSON CONTROLS

AIR-COOLED SCREW CHILLER YVAA - 150 to 500 TONS (R-134A)

BENEFITS

- Continuous function, microprocessor controlled Variable Speed Drive (VSD) for valve less, smooth capacity control to 10% of chiller capacity
- Chiller speed matched to system requirements at off-peak conditions resulting in lower energy usage
- Use of VSD reduces compressor moving parts by 50%
- Soft motor start with no electrical inrush reduces components stress, heat buildup
- Operating efficiencies at off-design conditions results in IPLVs as high as 19.8 EER
- Standard full load power factor of 95%, maintained throughout operating range resulting in improved energy savings
- Superior acoustic operation at off-design conditions
- HFC-R134a standard for long term availability and zero ODP
- Wide range of options to fit any design requirement
- Competitors MCA is an average of 10% higher than YORK's
- Lower MCA allows for smaller wiring and smaller circuit breakers therefore lower costs
- Allows for replacing chiller and increasing tonnage without replacing electrical components
- Industry's only 18-month air-cooled warranty that covers all parts.

UPGRADE OPTIONS

- Remote Cooler
- Factory mounted non-fused disconnect switch or circuit breaker
- Epoxy Post Coated, Pre Coated or Post Coated for tube and fin
- Seamless internally enhanced copper fin & tube coils arranged in staggered rows; mechanically bonded to full eight aluminum fins
- Evaporator Options:
 - 1-1/2" Insulation (double thickness)
 - Raised Face Flange Accessory for cooler nozzles
- Flow Switch Accessory: Vapor proof, SPDT, NEMA 3R switch, 150psig
- Suction service isolation valve per circuit (discharge valve standard)
- Unit Enclosure Options:
 - Wire Panels (full unit): coated, heavy gauge welded wire mesh mounted on exterior of unit to prevent unauthorized access to refrigerant components
 - Louvered Panels (condenser coils only): Painted to match unit; louvered panels mounted over exterior condenser coils faces to visually screen unit, protects coils
 - Louvered Panels (full unit): Painted to match unit; to protect condenser coils, visually screen internal components and prevent unauthorized access
 - Louvered (condensers)/Wire Panels (mechanicals): Louvered steel panels on external condenser coil faces, heavy-gauge welded-wire mesh around base to prevent unauthorized access
- Sound Attenuation:
 - SilentNight™ controls to force lower sound levels on demand or per user schedule
 - Ultra quiet fans, compressor sound blankets and/or acoustical enclosures
- Vibration Isolation: Neoprene, 1" spring isolators or 2" spring isolators



BY JOHNSON CONTROLS

AIR-COOLED SCREW CHILLER YVAA - 150 to 500 TONS

PACKAGE DESCRIPTION:

- Self contained, designed for outdoor installation
- Baked on powder paint
- Heavy gauge, formed galvanized steel base
- Factory mounted control transformer
- ARI-Standard 550/590-11 Rated & Certified
- All exposed wiring routed through liquid-tight, non-metallic conduit

Compressors:

- Reliable VSD driven semi-hermetic twin screw
- High efficiency, accessible hermetic motor with redundant overload protection
- Temperature actuated body cartridge heater
- Acoustically tuned discharge gas muffler
- Design pressure of compressor 450 PSIG

Condenser:

- Low noise, full airflow cross section fans for maximum efficiency; statically & dynamically balanced for low vibration operation; positioned in extended orifices for low sound
- High efficiency, direct drive, 3-phase totally enclosed fan motors with double sealed, permanently lubricated ball bearings
- Condenser coils are made of a single material to avoid galvanic corrosion due to dissimilar metals. Coils and headers are brazed as one piece
- Design Working Pressure 450 PSIG

Electrical:

- Competitors MCA is an average of 10% higher than YORK's
- Lower MCA allows for smaller wiring and smaller circuit breakers therefore lower costs
- Allows for replacing chiller and increasing tonnage without replacing electrical components

Evaporator:

- High efficiency Hybrid falling film cooler; refrigerant in shell and water in tubes
- Removable heads to access copper tubes
- Air vent and water drain connections
- Heater protection to -20 deg. F ambient
- Insulated with ¾" closed cell foam
- Design working pressure 150 PSIG water side and 235 PSIG on refrigerant side

Refrigerant circuit:

- Independent circuits per compressor
- Computer controlled bending of refrigerant pipe reduces over 60% of pipe brazed joints
- Liquid line components include: manual shutoff valve with charging port, removable core filter-drier, solenoid valve, sight glass with moisture indicator, electronic expansion valves
- Discharge line provided with manual compressor shutoff service valve
- External Oil separators with no moving parts, 450 PSIG design working pressure

Controls:

- All controls housed in a NEMA 3R cabinet with gasket sealed, hinged & latched door
- VSD section includes dedicated inverter for each compressor
- Control display accessible without opening main cabinet doors
- LCD, 80-character display with backlight
- Color coded, sealed keypad
- Standard controls permit operation from 0 to 125 deg F ambient temperature

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0153BAF46	150	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.1
Design Flow Rate (USGPM)	360	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	5.6			Rigging Wt. (lb)	11518
Fluid	Water			Operating Wt. (lb)	11979
Fouling Factor	0.0001				
Water Volume (USGAL)	58				
Min. Flow Rate (USGPM)	250				
Maz. Flow Rate (USGPM)	950				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	109	109		
Fan QTY/FLA (each)	4 / 3.3	4 / 3.3		

Single Point				
Min. Circuit Ampacity	276			
Recommended Fuse/CB Rating	350			
Max. Inverse Time CB Rating	350			
Max. Dual Element Fuse Size (Amps)	350			
Unit Short Circuit Withstand (STD)	30kA			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#2 – 600 KCM		Operating Condition Electrical Data	
Unit Power Factor	0.95		Compressor kW	162.7
Control KVA	2		Total Fan kW	14.8
Starter Type	VSD		Total kW	177.5

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	150	162.7	10.1
75	80	112.5	86.2	13.3
50	65	75	43	16.3
25	55	37.5	18.2	17.6

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	95	96	96	97	93	87	83	79	98
75	80	95	95	96	95	92	86	82	78	97
50	65	94	94	95	94	91	85	81	77	96
25	55	91	91	92	91	88	82	78	73	92

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	68	69	69	70	66	60	56	52	71
75	80	68	68	69	68	65	59	55	51	70
50	65	67	67	68	67	64	58	54	50	69
25	55	64	64	65	64	61	55	51	46	65

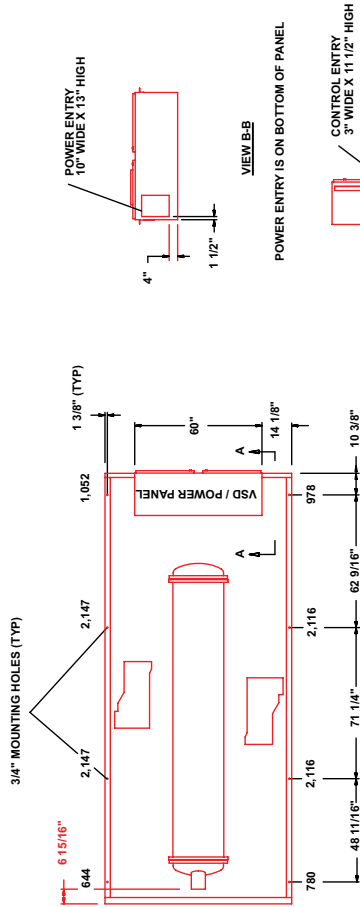
* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

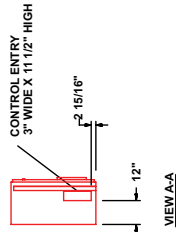


Software Version	YW14.01A
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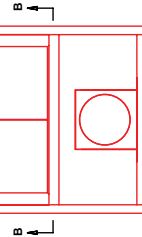
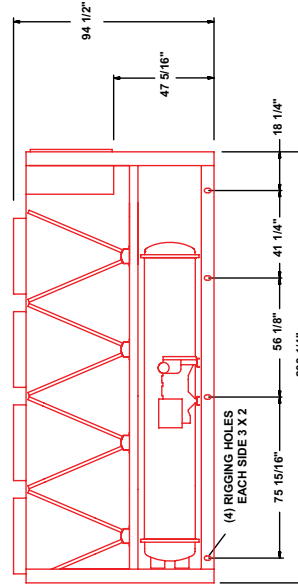
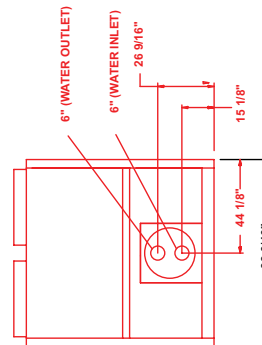
- NOTES:**
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS INCLUDING SNOW, FOR WINTER OPERATION OR AIR RECIRCULATION ENSURES RATED PERFORMANCE. RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE PERFORMANCE BASED ON CURRENT CONDITIONS. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. ACCESS TO THE UNIT CONTROL CENTER ASSUMES THE UNIT IS NO HIGHER THEN ON SPRING ISOLATORS RECOMMENDED MINIMUM CLEARANCES:
SIDE TO WALL & REAR TO WALL - 6"; CONTROL PANEL TO WALL - 4"; REAR TO WALL - 10" (NO MORE THAN ONE ADJACENT UNIT); 10" (NO MORE THAN ONE ADJACENT UNIT) HIGHER THEN THE UNIT.
2. WEIGHTS (LB): SHIPPING - 11,980, OPERATING - 11,980.
3. CENTER OF GRAVITY FROM ORIGIN: X= 101.8", Y= 44.0".
4. WATER CONNECTIONS ARE GROOVED FOR VICTAULIC CONNECTION.



POWER ENTRY IS ON BOTTOM OF PANEL



VIEW A-A



YVAA can be tailored and tuned to your needs. Please contact your JCI Representative for further capacities and efficiencies.

POWER: SINGLE POINT WITH TERMINAL BLOCK

PRODUCT DRAWING
AIR-COOLED SCREW CHILLER
MODEL: YVAA0153BAF46
NOT FOR CONSTRUCTION

Project Name : stp
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date : 12/6/2012 11:43:34
Rev. Date :
Form : 201.28-EG1
Dwg. Lev. : 01/11
Dwg. Scale : NTS

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0183ABF46	175	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.4
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.4
Design Flow Rate (USGPM)	420	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	11.4			Rigging Wt. (lb)	12019
Fluid	Water			Operating Wt. (lb)	12460
Fouling Factor	0.0001				
Water Volume (USGAL)	48				
Min. Flow Rate (USGPM)	200				
Maz. Flow Rate (USGPM)	750				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	139	111		
Fan QTY/FLA (each)	6 / 3.3	4 / 3.3		

Single Point				
Min. Circuit Ampacity	322			
Recommended Fuse/CB Rating	400			
Max. Inverse Time CB Rating	450			
Max. Dual Element Fuse Size (Amps)	450			
Unit Short Circuit Withstand (STD)	30kA			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#2 - 600 KCM		Operating Condition Electrical Data	
Unit Power Factor	0.95		Compressor kW	184.5
Control KVA	2		Total Fan kW	17.9
Starter Type	VSD		Total kW	202.5

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	175	184.5	10.4
75	80	131.3	97.8	13.5
50	65	87.5	49.5	16.5
25	55	43.8	22	17.9

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	96	96	97	98	94	88	84	80	99
75	80	96	96	97	96	94	87	83	79	98
50	65	94	95	95	95	91	86	82	78	96
25	55	91	91	92	91	88	82	78	73	93

65Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	69	69	70	71	67	61	57	53	72
75	80	69	69	70	69	67	60	56	52	71
50	65	67	68	68	68	64	59	55	51	69
25	55	64	64	65	64	61	55	51	46	66

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

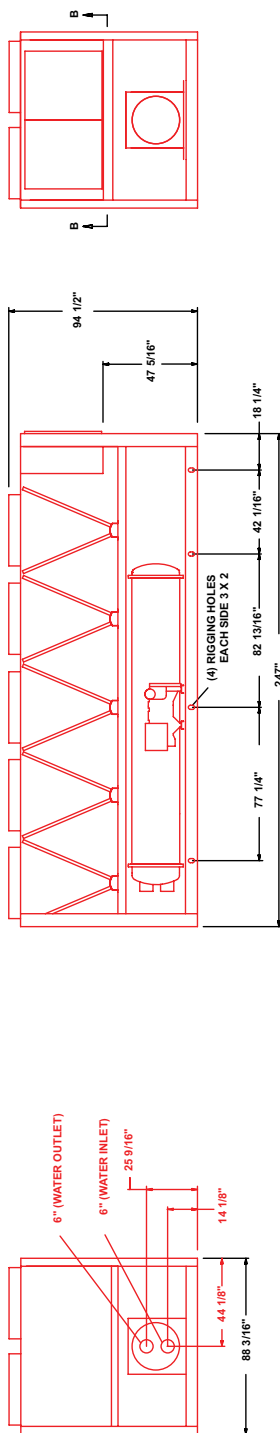
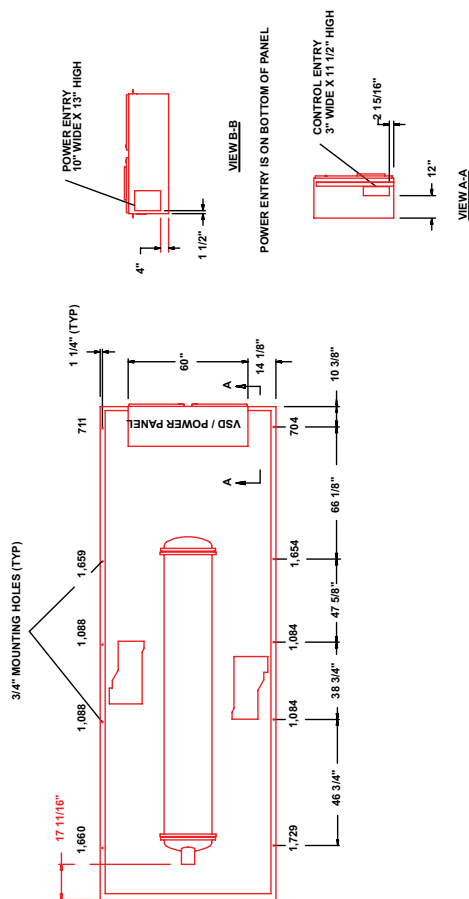


Software Version	YW14.01A
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NOTES:

1. PLACEMENT ON LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RECIRCULATION AND ENSURED MAINTENANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MUST BE TAKEN INTO ACCOUNT AND THE RESULTING UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORKS UNIT CONTROLS WILL OFTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT; HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. ACCESS TO THE UNIT CONTROL PANELS RECOMMENDED. MINIMUM CLEARANCE SPRING TOP - NO OBSTRUCTIONS ALLOWED. DISTANCE BETWEEN ADJACENT UNITS - 10" NO MORE THEN ONE ADJACENT WALL MAY BE HIGHER THEN THE UNIT.
2. CLEARANCE FROM TOP OF UNIT - 10-09.09 OPERATING - 19-00.0
3. CENTER OF GRAVITY FROM ORIGIN: Y= 738.4" X= 14.44"
4. WATER CONNECTIONS ARE GROoved FOR VITACULAC CONNECTION.



POWER: SINGLE POINT WITH TERMINAL BLOCK

YVAA can be tailored and tuned to your needs. Please contact your JCI Representative for further capacities and efficiencies.

PRODUCT DRAWING

AIR-COOLED SCREW CHILLER

MODEL: YVAA0183ABF46

NOT FOR CONSTRUCTION

Project Name : stp

Location :

Engineer :

Contractor :

For

Sold To :

Sold to :
Cust Purch Order# :

York Contract# :

UNIT

TAG:

Date : 12/6/2012 11:51:6

Date : 12/6/2011
Rev. Date :

Form : 201.28-EG1

Dwg. Lev. : 01/11

Dwg. Scale : NTS



YVAA
150 TO 200

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0233BEF46	200	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.5
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.2
Design Flow Rate (USGPM)	480	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	9.3			Rigging Wt. (lb)	13288
Fluid	Water			Operating Wt. (lb)	13750
Fouling Factor	0.0001				
Water Volume (USGAL)	58				
Min. Flow Rate (USGPM)	250				
Maz. Flow Rate (USGPM)	950				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	158	135		
Fan QTY/FLA (each)	7 / 3.3	5 / 3.3		

Single Point				
Min. Circuit Ampacity	375			
Recommended Fuse/CB Rating	450			
Max. Inverse Time CB Rating	500			
Max. Dual Element Fuse Size (Amps)	500			
Unit Short Circuit Withstand (STD)	30kA			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#2 - 600 KCM		Operating Condition Electrical Data	
Unit Power Factor	0.95		Compressor kW	208.4
Control KVA	2		Total Fan kW	21.1
Starter Type	VSD		Total kW	229.4

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	200	208.4	10.5
75	80	150	111.3	13.5
50	65	100	56.5	16.2
25	55	50	23.9	17.3

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	97	97	98	97	94	88	84	80	99
75	80	97	97	98	97	93	88	84	80	99
50	65	96	96	97	96	93	87	83	78	97
25	55	93	93	94	94	90	84	80	76	95

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	70	70	71	70	67	61	57	53	72
75	80	70	70	71	70	66	61	57	53	72
50	65	69	69	70	69	66	60	56	51	70
25	55	66	66	67	67	63	57	53	49	68

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0273DGF46	250	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.8
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	16.0
Design Flow Rate (USGPM)	600	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	15.3			Rigging Wt. (lb)	16275
Fluid	Water			Operating Wt. (lb)	17103
Fouling Factor	0.0001				
Water Volume (USGAL)	82				
Min. Flow Rate (USGPM)	300				
Maz. Flow Rate (USGPM)	1150				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	175	175		
Fan QTY/FLA (each)	7 / 3.3	4 / 3.3		

Single Point				
Min. Circuit Ampacity	444			
Recommended Fuse/CB Rating	500			
Max. Inverse Time CB Rating	600			
Max. Dual Element Fuse Size (Amps)	600			
Unit Short Circuit Withstand (STD)	30kA			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#2 – 600 KCM		Operating Condition Electrical Data	
Unit Power Factor	0.95		Compressor kW	235.5
Control KVA	2		Total Fan kW	24.2
Starter Type	VSD		Total kW	277.8

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	250	253.5	10.8
75	80	187.5	135.2	14
50	65	125	68.3	17.2
25	55	62.5	29	18.9

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	98	98	99	100	97	90	86	81	101
75	80	98	98	99	98	94	89	85	80	99
50	65	96	96	97	97	93	88	84	79	98
25	55	93	94	94	94	90	85	81	76	95

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	71	71	72	73	70	63	59	54	74
75	80	71	71	72	71	67	62	58	53	72
50	65	69	69	70	70	66	61	57	52	71
25	55	66	67	67	67	63	58	54	49	68

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



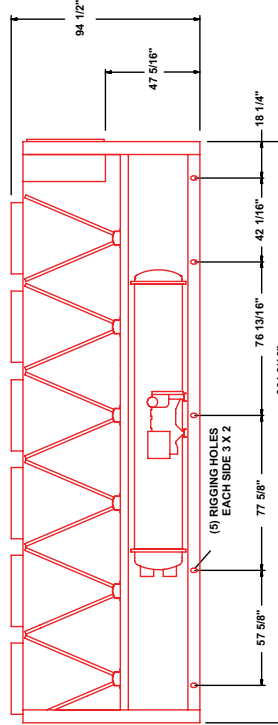
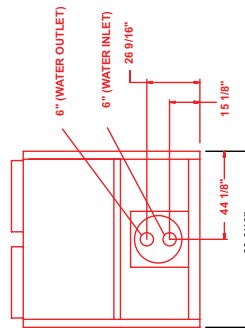
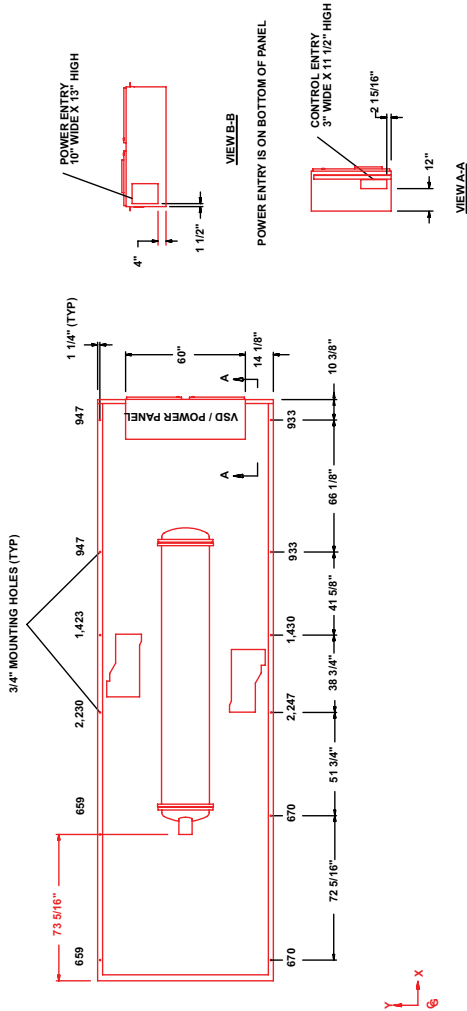
Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YVAA0273DGF46 AHRI CAPACITY 250 TONS

- NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR CURTAINS. THE UNIT MUST BE INSTALLED ON A RELIABLE FOUNDATION. THE FOUNDATION MUST BE DESIGNED TO SUPPORT THE WEIGHT OF THE UNIT AND ALLOW FOR EASY MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. YORK'S UNIT CONTROLS WILL OPTIMIZE PERFORMANCE BASED ON THE AIR FLOW PATTERNS. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION. ACCESS TO THE UNIT CONTROL CENTER ASSUMES THE UNIT IS NO HIGHER THAN ON SPRING ISOLATORS. RECOMMENDED MINIMUM CLEARANCES: TOP - NO OBSTRUCTIONS ALLOWED. DISTANCE BETWEEN ADJACENT UNITS - 10'. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN THE UNIT.
 2. WEIGHTS (LBS): SHIPPING - 13,268. OPERATING - 13,750.
 3. WATER CONNECTIONS ARE GROOVED FOR VICTAULIC CONNECTION.
 4. WATER CONNECTIONS ARE GROOVED FOR VICTAULIC CONNECTION.



POWER: SINGLE POINT WITH TERMINAL BLOCK

YVAA can be tailored and tuned to your needs. Please contact your JCI Representative for further capacities and efficiencies.

PRODUCT DRAWING

AIR-COOLED SCREW CHILLER

MODEL: YVAA023BEF46

NOT FOR CONSTRUCTION

Project Name : stp
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date : 12/6/2012 12:52:26
Rev. Date :
Form : 201.28-EG1
Dwg. Lev. : 01/11
Dwg. Scale : NTS



YVAA
201 TO 500

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0345EKF46	300	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	11.1
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.7
Design Flow Rate (USGPM)	720	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	11.8			Rigging Wt. (lb)	20077
Fluid	Water			Operating Wt. (lb)	20937
Fouling Factor	0.0001				
Water Volume (USGAL)	113				
Min. Flow Rate (USGPM)	400				
Maz. Flow Rate (USGPM)	1500				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	201	201		
Fan QTY/FLA (each)	10 / 3.3	10 / 3.3		

Single Point				
Min. Circuit Ampacity	521			
Recommended Fuse/CB Rating	600			
Max. Inverse Time CB Rating	700			
Max. Dual Element Fuse Size (Amps)	700			
Unit Short Circuit Withstand (STD)	30kA			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#2 – 600 KCM		Operating Condition Electrical Data	
Unit Power Factor	0.95		Compressor kW	290.2
Control KVA	2		Total Fan kW	33.7
Starter Type	VSD		Total kW	323.9

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	300	290	11.1
75	80	225	158.4	14
50	65	150	88.4	16.7
25	55	75	39.2	18

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	99	99	100	100	97	92	88	83	102
75	80	99	99	100	101	98	92	89	84	102
50	65	96	96	97	98	96	88	84	80	99
25	55	93	93	94	94	92	86	82	78	96

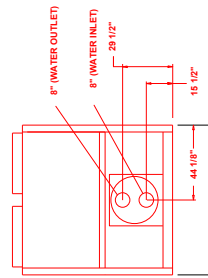
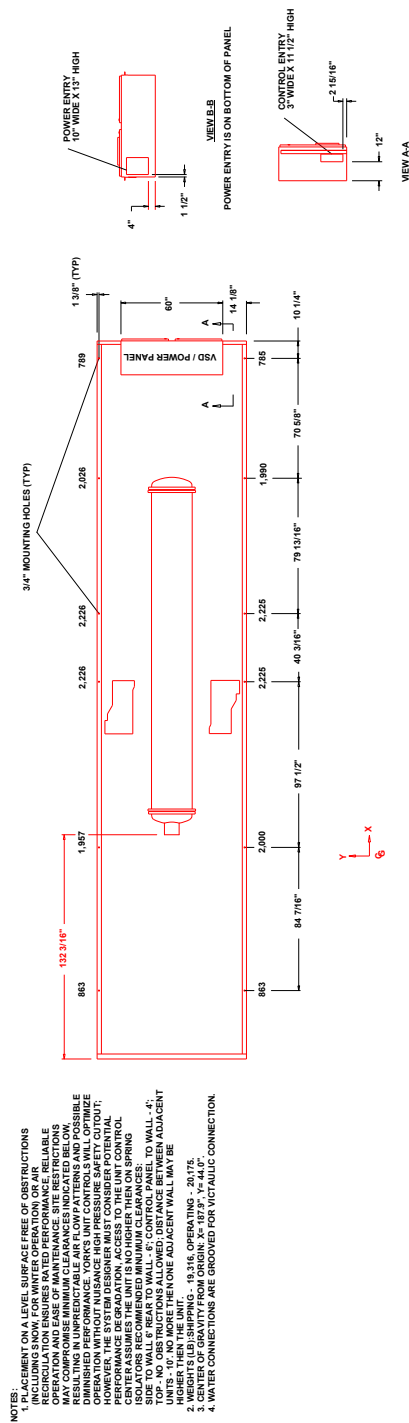
Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	72	72	73	73	70	65	61	56	75
75	80	72	72	73	74	71	65	62	57	75
50	65	69	69	70	71	69	61	57	53	72
25	55	66	66	67	67	65	59	55	51	69

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

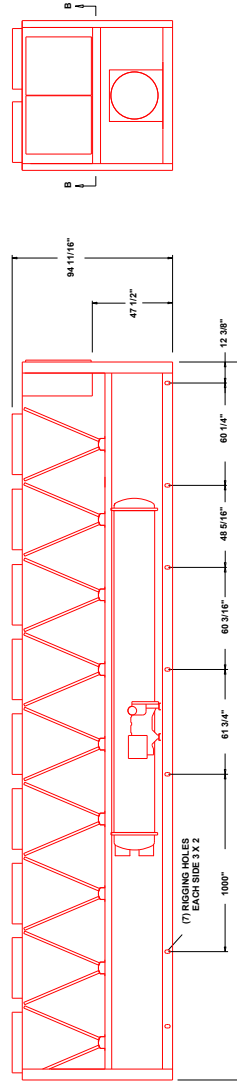
Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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POWER: SINGLE POINT WITH TERMINAL BLOCK



PRODUCT DRAWING

MODEL: YVAA0345EKF46
NOT FOR CONSTRUCTION

Project Name : blah
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date : 5/8/2014 7:55:41
Rev. Date :
Form : 201.28-EG1
Dwg. Lev. : 01/11
Dwg. Scale : NTS

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0373FJF46	350	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.4
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.0
Design Flow Rate (USGPM)	840	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	11.3			Rigging Wt. (lb)	22346
Fluid	Water			Operating Wt. (lb)	23405
Fouling Factor	0.0001				
Water Volume (USGAL)	96				
Min. Flow Rate (USGPM)	460				
Maz. Flow Rate (USGPM)	1540				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	327	178		
Fan QTY/FLA (each)	13 / 3.3	7 / 3.3		

Single Point				
Min. Circuit Ampacity	658			
Recommended Fuse/CB Rating	800			
Max. Inverse Time CB Rating	800			
Max. Dual Element Fuse Size (Amps)	800			
Unit Short Circuit Withstand (STD)	30kA			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#2 – 600 KCM		Operating Condition Electrical Data	
Unit Power Factor	0.95		Compressor kW	372.7
Control KVA	3		Total Fan kW	31.8
Starter Type	VSD		Total kW	404.5

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	350	372.7	10.4
75	80	262.5	203.4	13.3
50	65	175	105.5	16.1
25	55	87.5	44.4	17.4

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	99	99	100	103	100	97	96	85	105
75	80	99	100	100	100	97	91	88	83	102
50	65	98	98	99	98	95	89	86	83	100
25	55	96	96	97	97	92	87	84	81	98

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	72	72	73	76	73	70	69	58	78
75	80	72	73	73	73	70	64	61	56	75
50	65	71	71	72	71	68	62	59	56	73
25	55	69	69	70	70	65	60	57	54	71

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

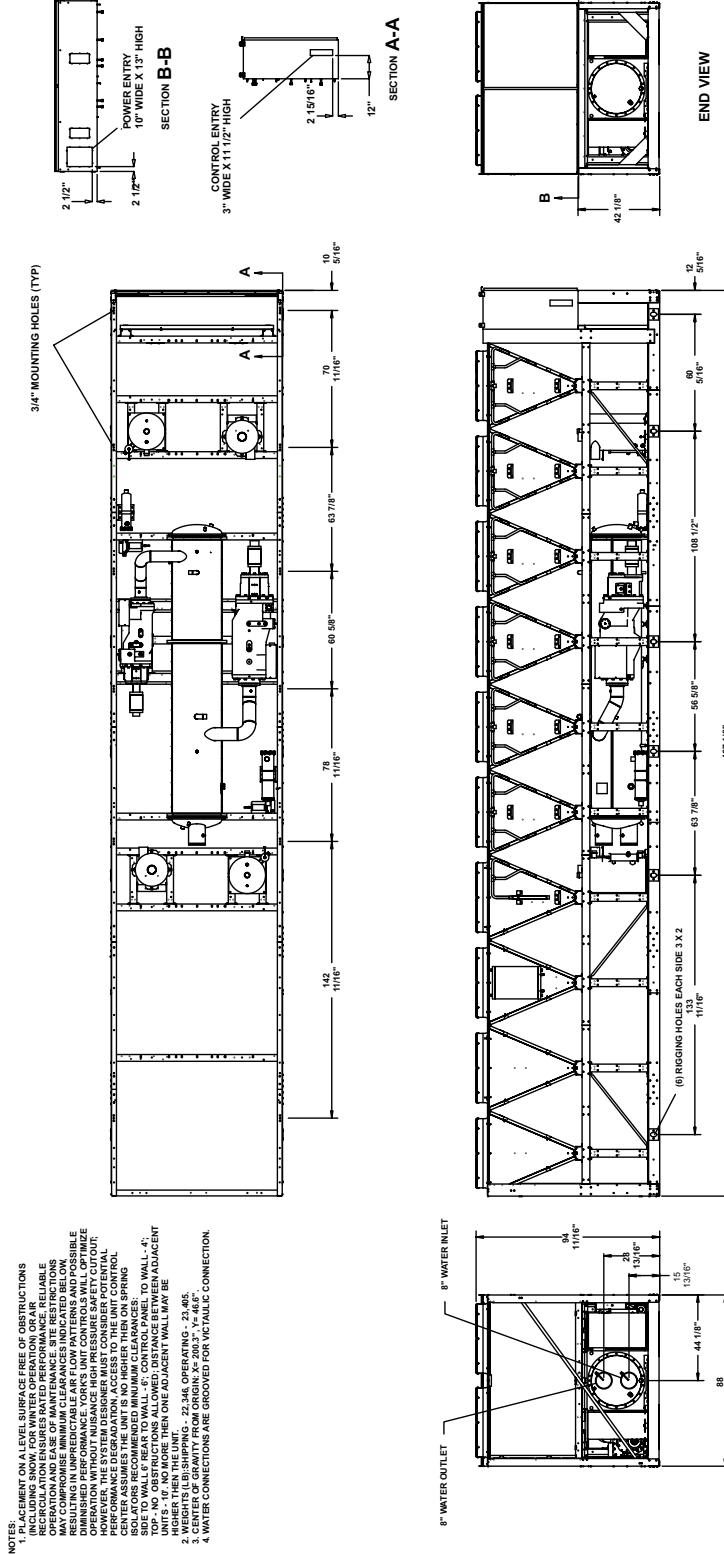


Software Version	YW14.01A
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BY JOHNSON CONTROLS

MODEL: YVAA0373FJF46 AHRI CAPACITY 350 TONS



YVAA can be tailored and tuned to your needs. Please contact your JCI Representative for further capacities and efficiencies.



Date : 3/5/2013 14:21:26
Rev. Date :
Form : 201.28-EG1
Dwg. Lev. : 01/11
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : adsfasdfa
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
AIR-COOLED SCREW CHILLER
MODEL: YVAA0373FJF46
NOT FOR CONSTRUCTION

YVAA
201 TO 500

Air-Cooled Screw Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0443FMF46	400	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.6
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.8
Design Flow Rate (USGPM)	960	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	14.3			Rigging Wt. (lb)	25942
Fluid	Water			Operating Wt. (lb)	27001
Fouling Factor	0.0001				
Water Volume (USGAL)	96				
Min. Flow Rate (USGPM)	460				
Maz. Flow Rate (USGPM)	1540				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	287	287		
Fan QTY/FLA (each)	12 / 3.3	12 / 3.3		

Multi-Point				
Min. Circuit Ampacity	398	398		
Recommended Fuse/CB Rating	600	600		
Max. Inverse Time CB Rating	600	600		
Max. Dual Element Fuse Size (Amps)	600	600		
Unit Short Circuit Withstand (STD)	30kA	30kA		
Min. Circuit Breaker (Amps)	600	600		
Max. Circuit Breaker (Amps)	600	600		
Wire Range (Lug Size)	#2 - 600 KCM	#2 - 600 KCM	Operating Condition Electrical Data	
Unit Power Factor	0.95	0.95	Compressor kW	414.5
Control KVA	3		Total Fan kW	38
Starter Type	VSD		Total kW	452.6

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	400	414.5	10.6
75	80	300	231.8	13.2
50	65	200	120.9	15.8
25	55	100	53.3	17.3

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	100	100	101	102	99	95	93	88	104
75	80	100	100	101	102	100	92	90	85	104
50	65	99	99	100	100	96	90	87	85	101
25	55	96	96	97	98	93	87	84	82	98

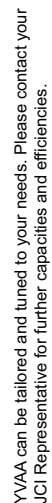
Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	73	73	74	75	72	68	66	61	77
75	80	73	73	74	75	73	65	63	58	77
50	65	72	72	73	73	69	63	60	58	74
25	55	69	69	70	71	66	60	57	55	71

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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Date : 12/6/2012 13:47:41
Rev. Date :
Form : 201.28-EG1
Dwg. Lev. : 01/11
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : stp
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
AIR-COOLED SCREW CHILLER
MODEL: YVAA0443FMF46
NOT FOR CONSTRUCTION

YVAA
201 TO 500

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0523HMF46	450	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.9
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	15.4
Design Flow Rate (USGPM)	1080	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	14.9			Rigging Wt. (lb)	28427
Fluid	Water			Operating Wt. (lb)	29784
Fouling Factor	0.0001				
Water Volume (USGAL)	147				
Min. Flow Rate (USGPM)	550				
Maz. Flow Rate (USGPM)	1880				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	312	312		
Fan QTY/FLA (each)	13 / 3.3	13 / 3.3		

Multi-Point				
Min. Circuit Ampacity	423	423		
Recommended Fuse/CB Rating	700	700		
Max. Inverse Time CB Rating	700	700		
Max. Dual Element Fuse Size (Amps)	700	700		
Unit Short Circuit Withstand (STD)	30kA	30kA		
Min. Circuit Breaker (Amps)	700	700		
Max. Circuit Breaker (Amps)	700	700		
Wire Range (Lug Size)	#2 - 600 KCM	#2 - 600 KCM	Operating Condition Electrical Data	
Unit Power Factor	0.95	0.95	Compressor kW	452.6
Control KVA	3		Total Fan kW	41.1
Starter Type	VSD		Total kW	493.7

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	450	452.6	10.9
75	80	337.5	251.3	13.7
50	65	225	131.9	16.4
25	55	122.5	58.2	18.2

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	101	101	102	102	101	96	92	87	104
75	80	100	101	102	103	100	93	92	86	104
50	65	99	99	100	100	69	91	87	85	101
25	55	96	96	97	97	93	87	84	81	98

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	74	74	75	75	74	69	65	60	77
75	80	73	74	75	76	73	66	65	59	77
50	65	72	72	73	73	69	64	60	58	74
25	55	69	69	70	70	66	60	57	54	71

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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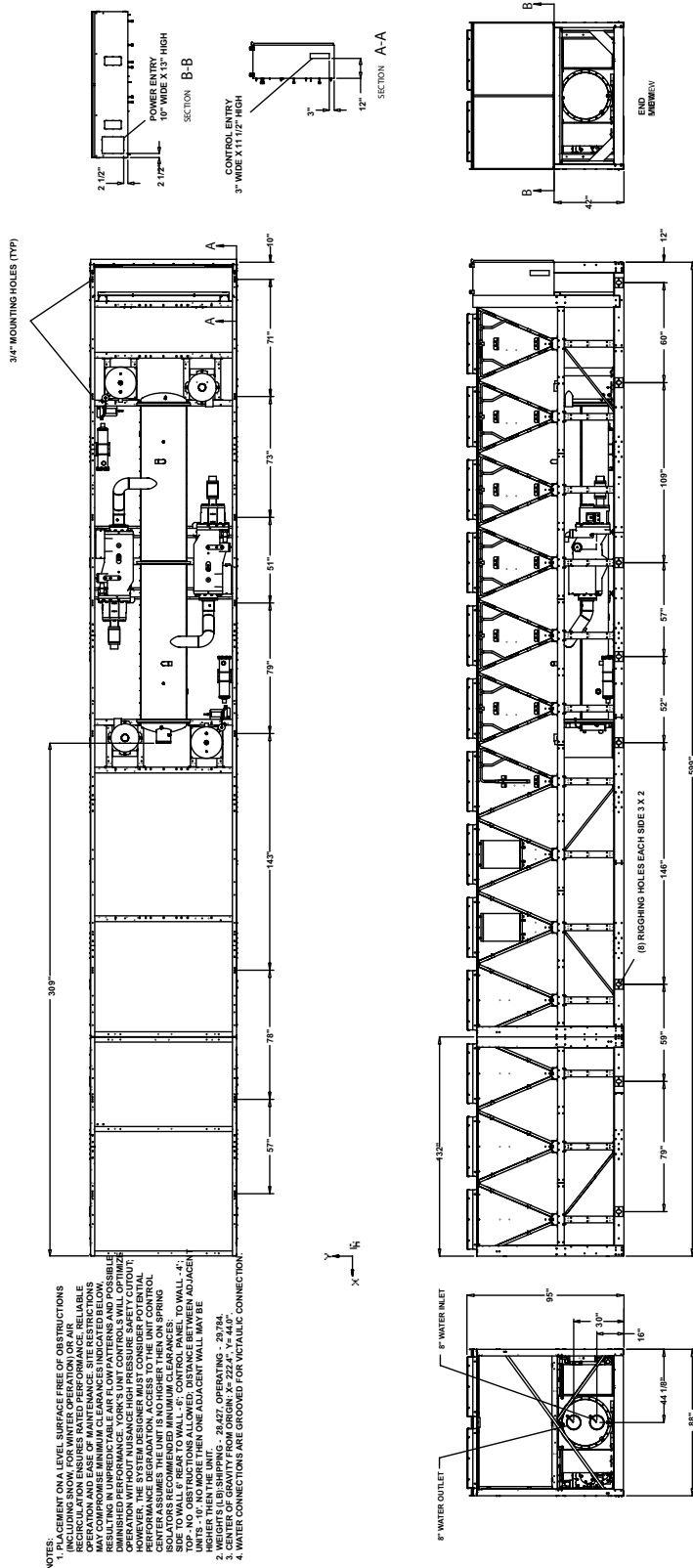
Date : 12/6/2012 13:57:16
Rev. Date :
Form : 201.28-EG1
Dwg. Lev. : 01/11
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : stp
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
AIR-COOLED SCREW CHILLER
MODEL: YVAA0523HMF46
NOT FOR CONSTRUCTION

YVAA
201 TO 500



YVAA can be tailored and tuned to your needs. Please contact your UCI Representative for further capacities and efficiencies.

Air-Cooled Screw Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YVAA0523HMG46	497.2	460-3-60	R134A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. Design (°F)	95	EER (EER)	10.4
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.3
Design Flow Rate (USGPM)	1194.6	Ambient Temp. Min. (°F)	0	Physical Data	
Pressure Drop (ft. H ₂ O)	17.8			Rigging Wt. (lb)	29365
Fluid	Water			Operating Wt. (lb)	30722
Fouling Factor	0.0001				
Water Volume (USGAL)	147				
Min. Flow Rate (USGPM)	550				
Maz. Flow Rate (USGPM)	1880				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	346	346		
Fan QTY/FLA (each)	13 / 5.1	13 / 5.1		

Multi-Point				
Min. Circuit Ampacity	484	484		
Recommended Fuse/CB Rating	800	800		
Max. Inverse Time CB Rating	800	800		
Max. Dual Element Fuse Size (Amps)	800	800		
Unit Short Circuit Withstand (STD)	30kA	30kA		
Min. Circuit Breaker (Amps)	800	800		
Max. Circuit Breaker (Amps)	800	800		
Wire Range (Lug Size)	#2 - 600 KCM	#2 - 600 KCM	Operating Condition Electrical Data	
Unit Power Factor	0.95	0.95	Compressor kW	501.6
Control KVA	3		Total Fan kW	74.7
Starter Type	VSD		Total kW	576.3

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	95	497.2	501.6	10.4
75	80	372.9	274.9	12.6
50	65	248.6	152.8	15.4
25	55	124.3	64	16

Sound Power Levels (In Accordance with AHRI 370) – Octave Band Center Frequency, Hz (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	103	117	116	110	106	103	96	91	113
75	80	103	117	116	110	106	102	94	89	112
50	65	101	115	114	107	103	99	91	87	110
25	55	99	113	112	105	101	97	90	85	108

Sound Pressure Levels in dB at 30.0 (ft.)* (Equipped with Low Sound Fans)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	95	76	90	89	83	79	76	69	64	86
75	80	76	90	89	83	79	75	67	62	85
50	65	74	88	87	80	76	72	64	60	83
25	55	72	86	85	78	74	70	63	58	81

* Chiller is assumed to be a point source on a reflecting surface (hemispherical radiation)

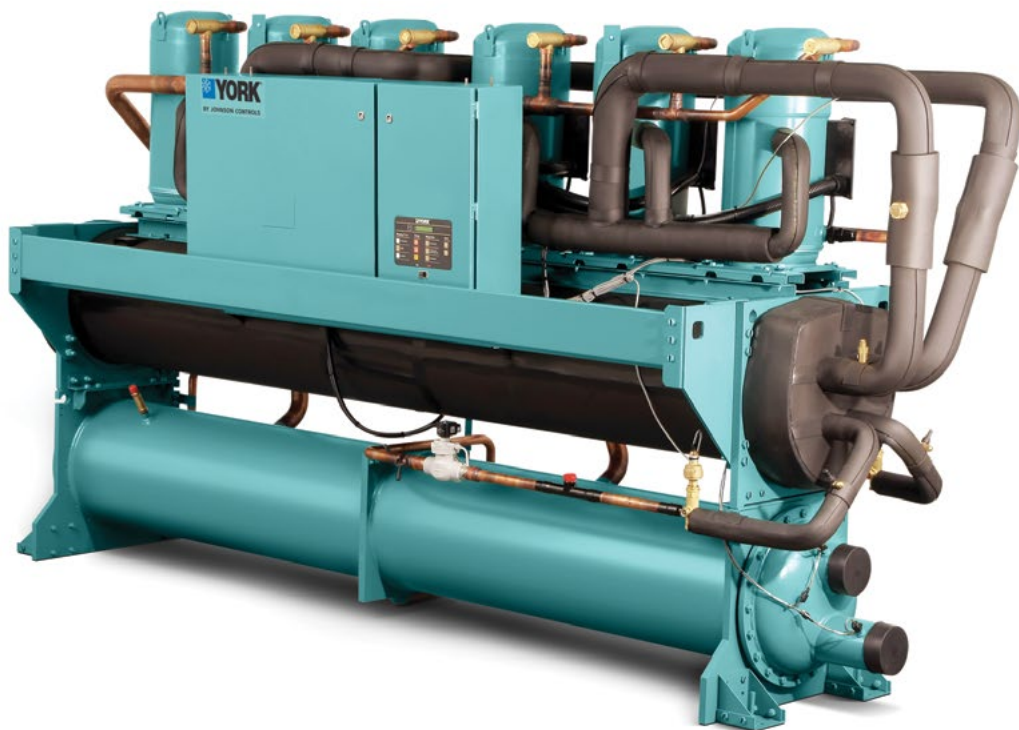
Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Software Version	YW14.01A
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YCWL
50 to 200 Tons
Water-Cooled Scroll Chiller



YCWL RIGGING

Delivery and Storage

To ensure consistent quality and maximum reliability, all units are tested and inspected before leaving the factory. Units are shipped completely assembled and containing refrigerant under pressure. Units are shipped without export crating unless this has been specified on the Sales Order.

If the unit is to be put into storage, before installation, the following precautions should be observed:

Ensure that all openings, such as water connections, are securely capped.

Do not store where exposed to ambient air temperatures exceeding 107°F (42°C).

The unit should be stored in a location where there is minimal activity to limit the risk of accidental physical damage.

To prevent inadvertent operation of the pressure relief devices the unit must not be steam cleaned.

It is recommended that the unit is periodically inspected during storage.

Inspection

Immediately upon receiving the unit, it should be inspected for possible damage which may have occurred during transit. If damage is evident, it should be noted in the carrier's freight bill. A written request for inspection by the carrier's agent should be made at once. See "Instruction Manual", [Form 50.15-NM] for more information and details.

Major damage must be reported immediately to your local Johnson Controls representative.

Moving the Unit

Before moving the unit, ensure that the installation site is suitable for installing the unit and is capable of supporting the weight of the unit and all associated services.

The units are designed to be lifted using either lifting chains or a fork lift.

Lifting by Crane / Hoist

A spreader frame should be used to prevent damage to the unit from the lifting chains (Refer to the Operations and Maintenance Guide [Form 201.26-NM1]).



NOTE: The unit must only be lifted at the points provided.



BY JOHNSON CONTROLS

WATER-COOLED SCROLL CHILLER

YCWL - 50 to 200 TONS

BENEFITS

- IPLV as high as 25.4 EER provide cost effective operation
- Designed for low acoustics without additional sound treatment
- Wide range of options to fit any design requirement
- HFC-410A Standard for zero ODP and low global warming potential; long service life
- Multiple scroll compressors offer redundancy and accurate capacity matching
- Native BACnet MSTP & Modbus communications for BAS integration

UPGRADE OPTIONS

- Low temperature brine chilling to 15°F
- Power Options:
 - Single Point Power Connection to Terminal Block, Non-fused Disconnect or Circuit Breaker
 - Multiple Point Power Connection to Circuit Breakers for retrofit projects
 - Compressor Overloads to limit MCA (ideal for retrofit applications)
- Heat Pump (non-reversing) option to 130°F leaving condenser water temperature for energy conservation
- Remote Condenser YCRL variant for remote condenser applications
- Evaporator Options:
 - Victaulic Flange Accessory for cooler nozzles
 - Flow switch: Vapor proof, SPDT, NEMA 4X switch, 150 psig
- Vibration Isolators - Neoprene isolators, 1" spring isolators or 2" spring isolators



BY JOHNSON CONTROLS

WATER-COOLED SCROLL CHILLER

YCWL - 50 to 200 TONS

PACKAGE DESCRIPTION:

- Completely assembled with all piping and wiring ready for field installation
- Pressure and operational tested
- Provided with HFC-410A charge and initial oil charge
- Can be provided with optional overspray coat of Caribbean Blue enamel paint

Compressors:

- Reliable suction-gas cooled hermetic scrolls
- High efficiency motors with redundant overload protection
- Microprocessor controlled compressor staging regulates chiller capacity to 15% of maximum
- Design Working Pressure 560 PSIG

Condenser:

- Cleanable, thru-tube type with removable heads
- Integral subcooling standard
- Equipped with relief valves
- Steel shell and copper tubes

Evaporator:

- High efficiency DX cooler, refrigerant in tubes and chilled liquid through baffled shell
- Two independent circuits per chiller
- Removable heads to access copper tubes
- Water vent and drain connections
- Insulated with 3/4" closed cell foam
- Design working pressure 150 PSIG waterside and 400 PSIG on refrigerant side

Refrigerant Circuit:

- Tandem or trio compressors per circuit
- Liquid line components include: shut-off valve with charging port, high-absorption removable core filter-drier, solenoid valve, sight glass with moisture indicator, thermal or electronic expansion valves (depending on options)
- Entire suction line and liquid line between expansion valve and cooler insulated with flexible closed-cell foam insulation

Controls:

- All controls housed in a NEMA 1 cabinet with gasket sealed, hinged & latched door
- LCD, 40-character display with backlight
- Color coded, 32-button sealed keypad

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0056SE46	52.5	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.1
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	21.3
Design Flow Rate (USGPM)	125.9	Flow Rate (gpm)	157.4	Physical Data	
Pressure Drop (ft. H ₂ O)	12.3	Pressure Drop (ft.)	11.1	Rigging Wt. (lb)	3515
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	3648
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	22.4	Water Vol. (gal)	19.4		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	23.1 / 23.1	23.1 / 23.1		
Compressor Start Current (LRA)	150 / 150	150 / 150		

Single Point				
Min. Circuit Ampacity	98			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	110			
Max. Circuit Breaker (Amps)	110			
Wire Range (Lug Size)	(1)#12 - #1			
Total Amps	92.4		Operating Condition Electrical Data	
Inrush (PW) Amps	150		Compressor kW	39.1
Starter Type	Across the Line		Total kW	39.1

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	52.5	85	94.7	39.1	16.1
75	41.1	76.4	83.8	26.2	18.8
50	29	67.1	72.2	15.4	22.6
25	14.2	65	67.5	7.3	23.3

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	58	47	51	67	66	66	59	55	71
75	57	46	50	66	64	64	58	53	70
50	55	44	48	64	63	63	56	52	68
25	52	41	45	61	60	60	53	49	65

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +3 DBA on the A-Weighted levels and +5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

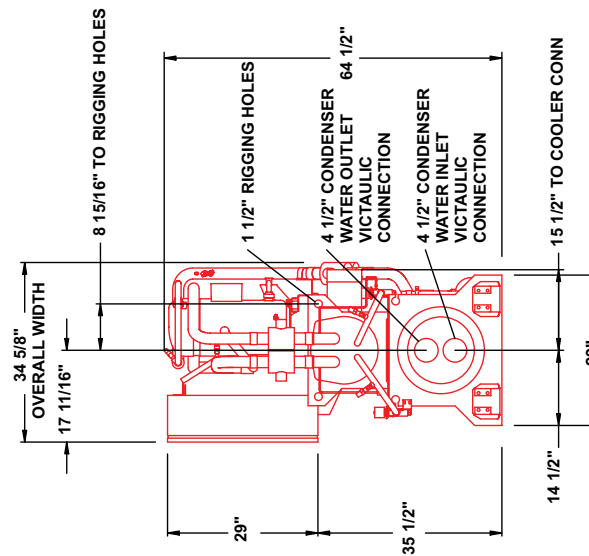
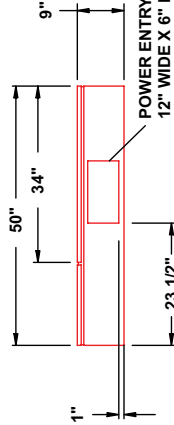
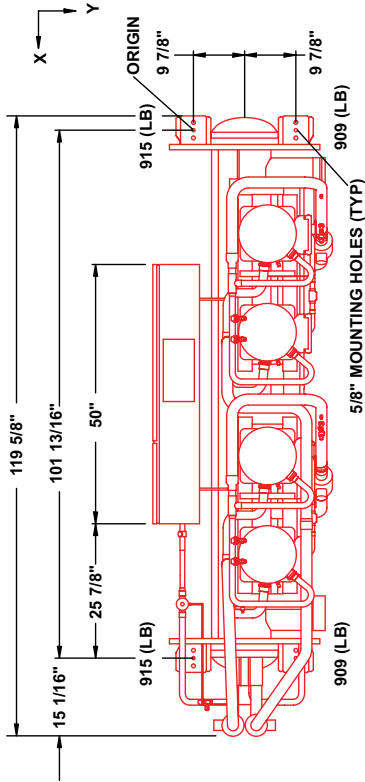


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0056SE46 AHRI CAPACITY 52.5 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
WEIGHTS (LB): SHIPPING - 3,515, OPERATING - 3,648.
 3. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.9", Y= 9.8"



Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0056SE46
NOT FOR CONSTRUCTION

YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0064SE46	60	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	15.8
LWT (°F)	44	LWT (°F)	94.8	IPLV (EER)	19.9
Design Flow Rate (USGPM)	143.9	Flow Rate (gpm)	179.9	Physical Data	
Pressure Drop (ft. H ₂ O)	15.8	Pressure Drop (ft.)	14	Rigging Wt. (lb)	3883
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	4016
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	22.4	Water Vol. (gal)	19.4		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	26.9 / 26.9	26.9 / 26.9		
Compressor Start Current (LRA)	187 / 187	187 / 187		

Single Point				
Min. Circuit Ampacity	114			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	125			
Max. Circuit Breaker (Amps)	125			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	107.6		Operating Condition Electrical Data	
Inrush (PW) Amps	187		Compressor kW	45.7
Starter Type	Across the Line		Total kW	45.7

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	60	85	94.8	45.7	15.8
75	47.1	76.4	83.9	31.1	18.2
50	33.3	67.2	72.4	19.1	20.9
25	16.3	65	67.5	9.2	21.2

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	59	52	54	68	68	69	62	53	73
75	58	51	52	66	67	68	61	52	72
50	56	49	51	65	65	66	59	50	70
25	53	46	48	62	62	63	56	47	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

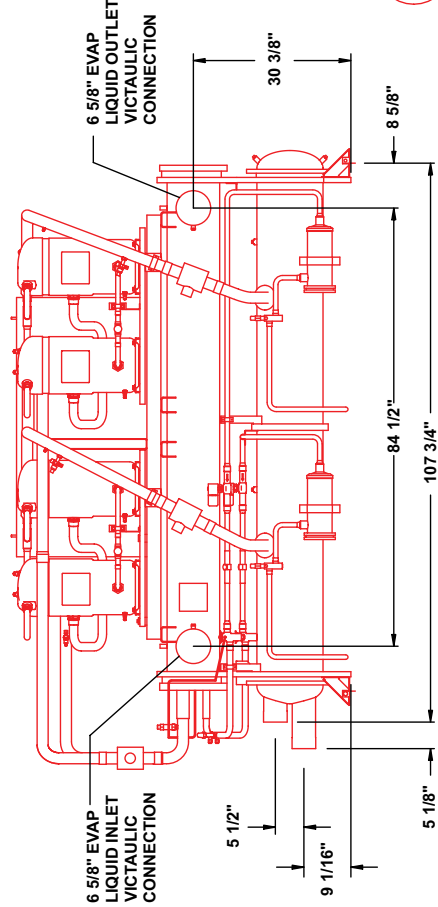
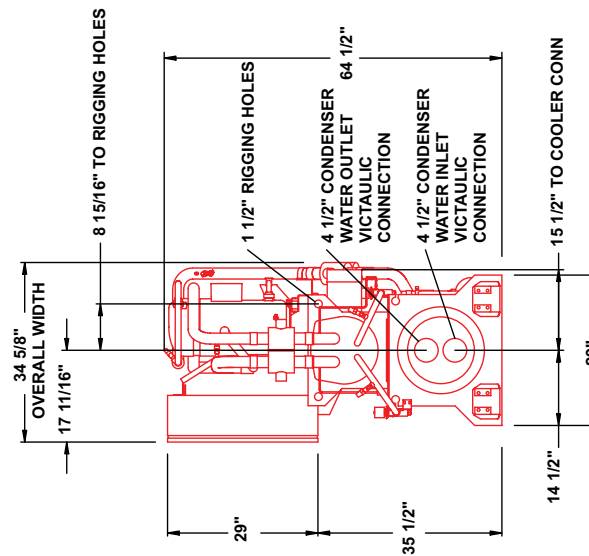
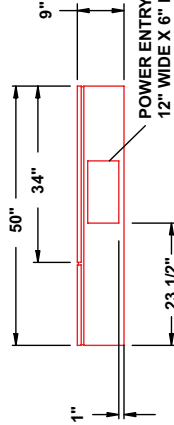
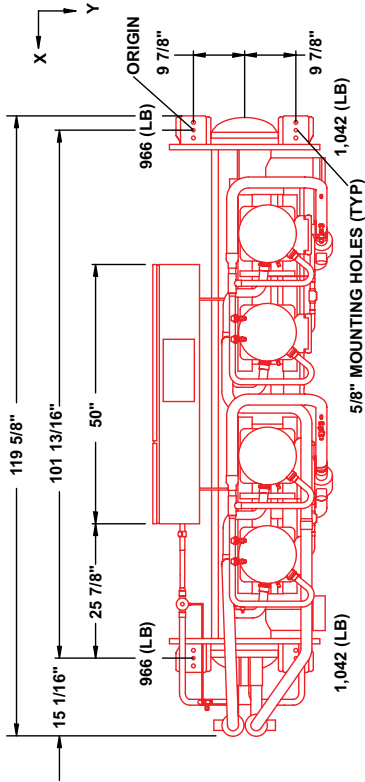


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0064SE46 AHRI CAPACITY 60 TONS



- NOTES:**
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 3,883, OPERATING - 4,016.
EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.9", Y= 10.3"



Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0064SE46
NOT FOR CONSTRUCTION

YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0064HE46	62.5	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.5
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	20.3
Design Flow Rate (USGPM)	150	Flow Rate (gpm)	187.5	Physical Data	
Pressure Drop (ft. H ₂ O)	7.5	Pressure Drop (ft.)	7	Rigging Wt. (lb)	4533
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	4848
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	59.8	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	26.9 / 26.9	26.9 / 26.9		
Compressor Start Current (LRA)	187 / 187	187 / 187		

Single Point				
Min. Circuit Ampacity	114			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	125			
Max. Circuit Breaker (Amps)	125			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	107.6		Operating Condition Electrical Data	
Inrush (PW) Amps	187		Compressor kW	45.4
Starter Type	Across the Line		Total kW	45.4

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	62.5	85	94.7	45.4	16.5
75	48.5	76	83.4	30.9	18.8
50	33.4	66.4	71.3	18.9	21.2
25	16.3	65	67.4	9.2	21.4

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	59	52	54	68	68	69	62	53	73
75	58	51	52	66	67	68	61	52	72
50	56	49	51	65	65	66	59	50	70
25	53	46	48	62	62	63	56	47	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

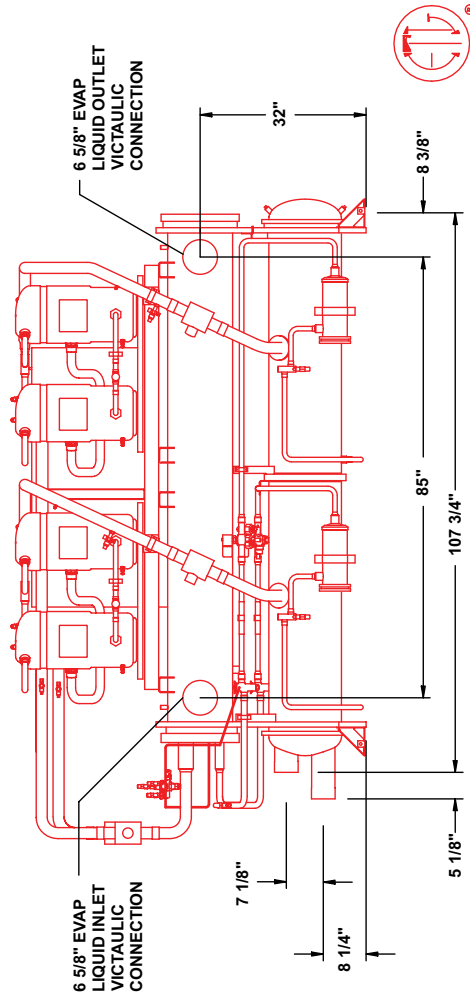
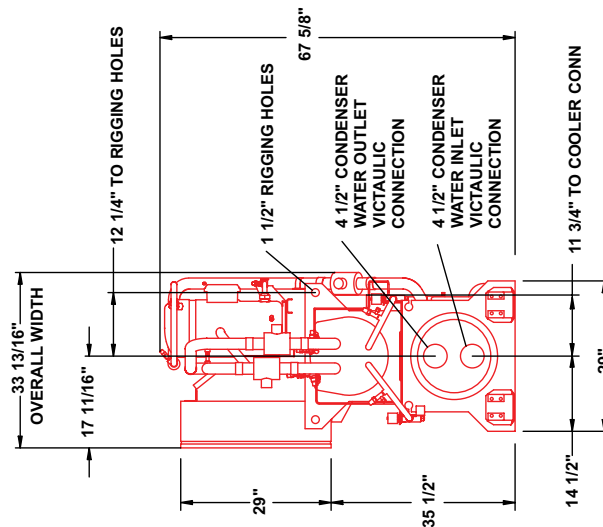
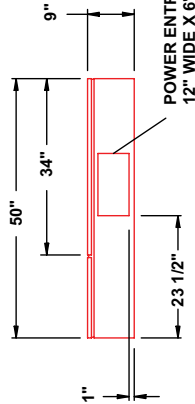
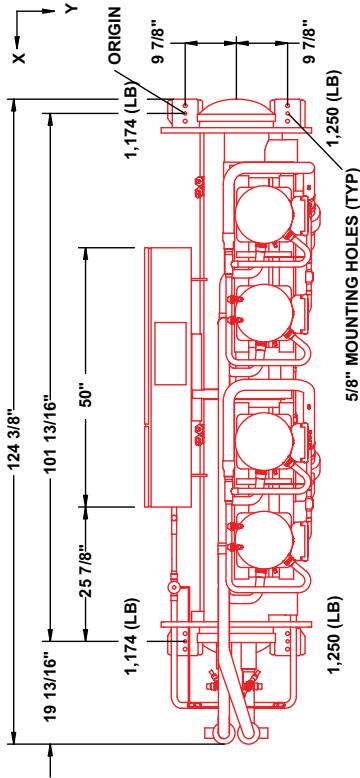


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0064HE46 AHRI CAPACITY 62.5 TONS



- NOTES:**
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 4,533, OPERATING - 4,848.
EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.2"

PRODUCT DRAWING

WATER-COOLED SCROLL CHILLER
MODEL: YCWL0064HE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS



YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0074SE46	67.9	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	15.2
LWT (°F)	44	LWT (°F)	94.9	IPLV (EER)	20.2
Design Flow Rate (USGPM)	162.9	Flow Rate (gpm)	203.6	Physical Data	
Pressure Drop (ft. H ₂ O)	19.9	Pressure Drop (ft.)	17.3	Rigging Wt. (lb)	4061
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	4194
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	22.4	Water Vol. (gal)	19.4		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	30.4 / 30.4	26.9 / 26.9		
Compressor Start Current (LRA)	225 / 225	187 / 187		

Single Point				
Min. Circuit Ampacity	122			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	150			
Max. Circuit Breaker (Amps)	150			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	114.6		Operating Condition Electrical Data	
Inrush (PW) Amps	225		Compressor kW	53.5
Starter Type	Across the Line		Total kW	53.5

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	67.9	85	94.9	53.5	15.2
75	52.6	76	83.4	34.1	18.5
50	38.7	97.8	73.1	21.8	21.3
25	16.2	65	67.2	9.2	21.2

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	60	56	64	70	70	75	68	57	78
75	58	54	61	68	68	72	65	55	76
50	57	53	61	67	67	72	65	54	75
25	53	46	48	62	62	63	56	47	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

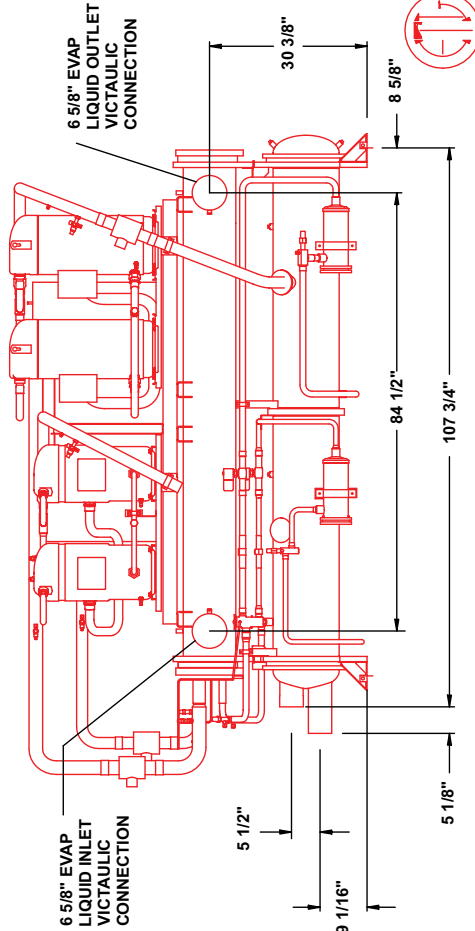
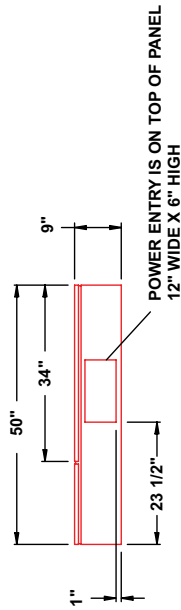
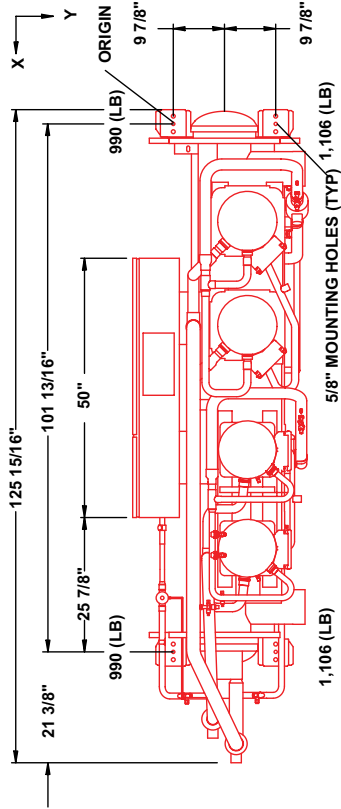


Software Version	YW14.01a
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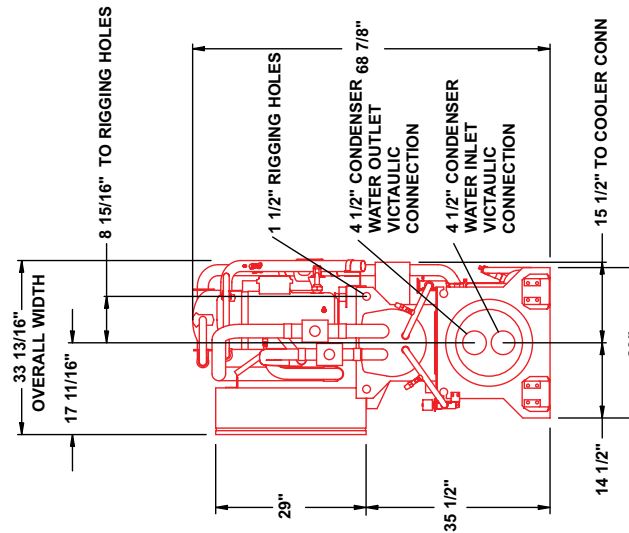


BY JOHNSON CONTROLS

MODEL: YCWL0074SE46 AHRI CAPACITY 67.9 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 4,061, OPERATING - 4,194.
ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.9", Y= 10.4"



PRODUCT DRAWING

WATER-COOLED SCROLL CHILLER
MODEL: YCWL0074SE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS



YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0074HE46	72.9	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.4
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	20.8
Design Flow Rate (USGPM)	174.8	Flow Rate (gpm)	218.6	Physical Data	
Pressure Drop (ft. H ₂ O)	6.1	Pressure Drop (ft.)	9.1	Rigging Wt. (lb)	4911
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	5406
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	59.8	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	30.4 / 30.4	26.9 / 26.9		
Compressor Start Current (LRA)	225 / 225	187 / 187		

Single Point				
Min. Circuit Ampacity	122			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	150			
Max. Circuit Breaker (Amps)	150			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	114.6		Operating Condition Electrical Data	
Inrush (PW) Amps	225		Compressor kW	53.3
Starter Type	Across the Line		Total kW	53.3

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	72.9	85	94.7	53.3	16.4
75	54.6	75	82.1	33.6	19.5
50	39	66.4	71.3	21.3	21.9
25	16.2	65	67.1	9.1	21.3

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	60	56	64	70	70	75	68	57	78
75	58	54	61	68	68	72	65	55	76
50	57	53	61	67	67	72	65	54	75
25	53	46	48	62	62	63	56	47	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

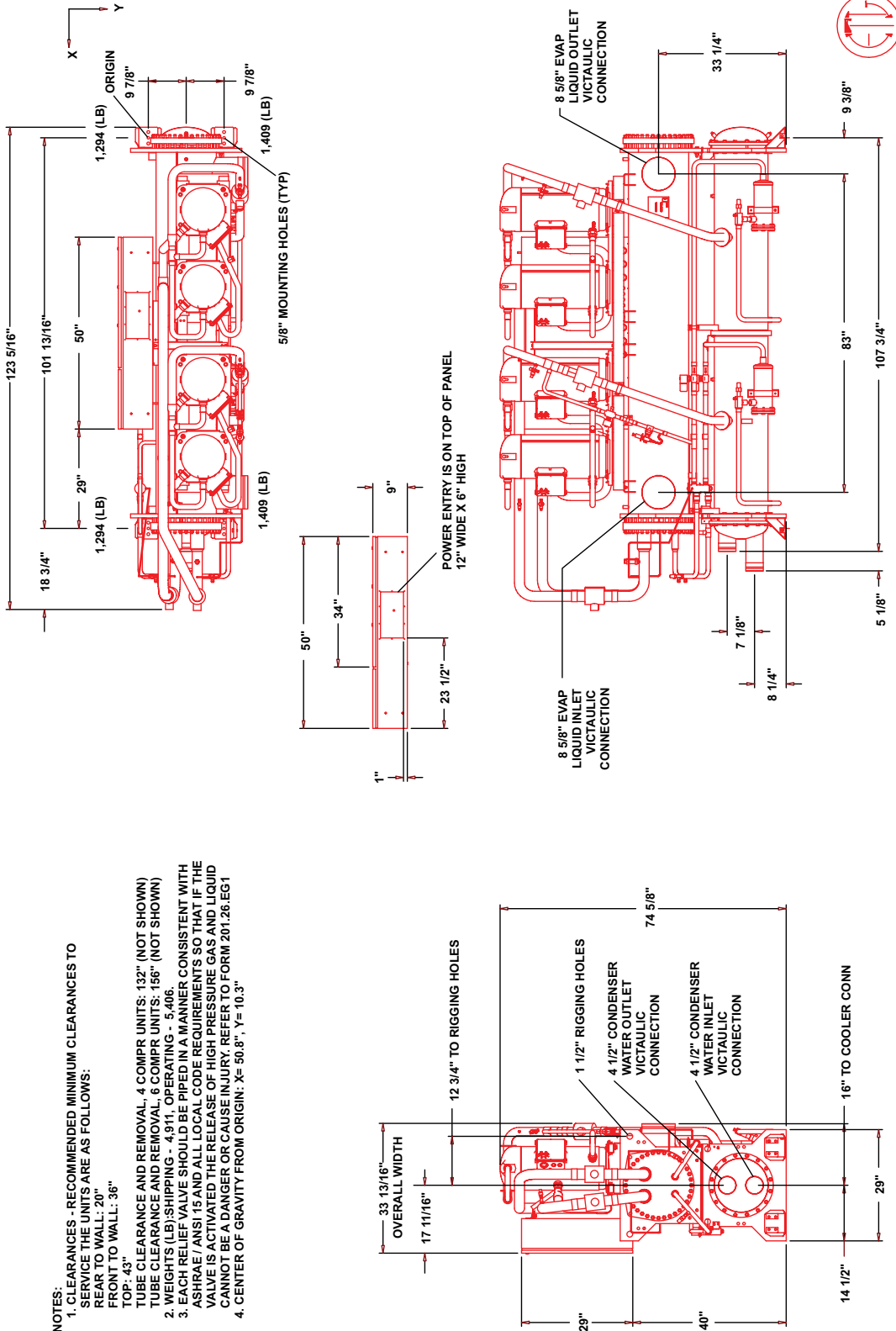


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0074HE46 AHRI CAPACITY 72.9 TONS



Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0074HE46
NOT FOR CONSTRUCTION

YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0084SE46	76.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	15.8
LWT (°F)	44	LWT (°F)	94.8	IPLV (EER)	21.5
Design Flow Rate (USGPM)	183.9	Flow Rate (gpm)	229.9	Physical Data	
Pressure Drop (ft. H ₂ O)	25	Pressure Drop (ft.)	9.9	Rigging Wt. (lb)	4489
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	4684
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	22.4	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	30.4 / 30.4	30.4 / 30.4		
Compressor Start Current (LRA)	225 / 225	225 / 225		

Single Point				
Min. Circuit Ampacity	129			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	150			
Max. Circuit Breaker (Amps)	150			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	121.6		Operating Condition Electrical Data	
Inrush (PW) Amps	225		Compressor kW	58.2
Starter Type	Across the Line		Total kW	58.2

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	76.6	85	94.8	58.2	15.8
75	61	76.8	84.4	39.6	18.5
50	44.4	68.2	73.5	23.4	22.7
25	21.9	65	67.6	11.1	23.8

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	60	58	66	71	72	77	70	59	80
75	59	56	65	70	70	76	69	58	79
50	57	55	63	68	69	74	67	56	77
25	54	52	60	65	66	71	64	53	74

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

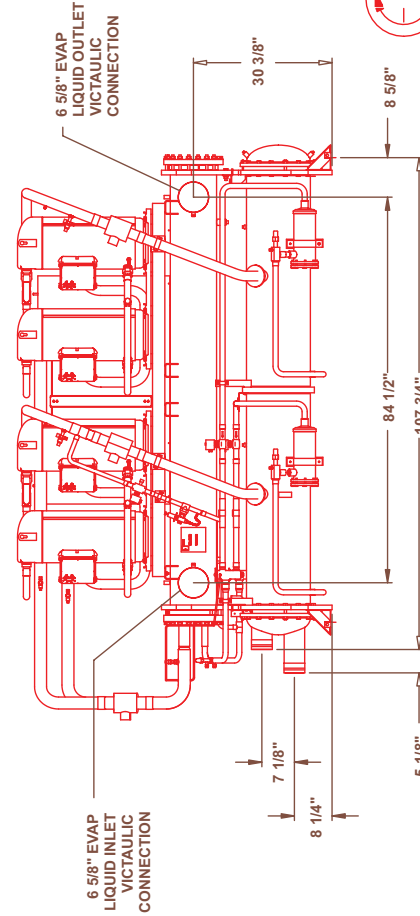
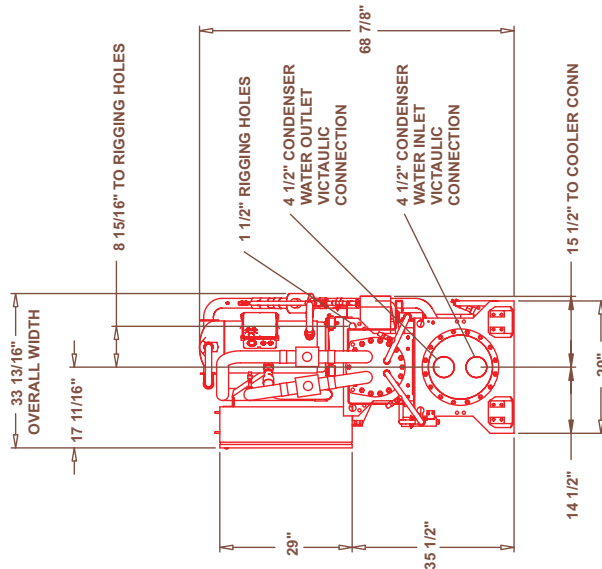
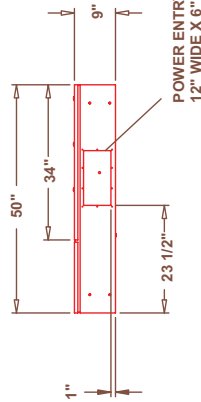
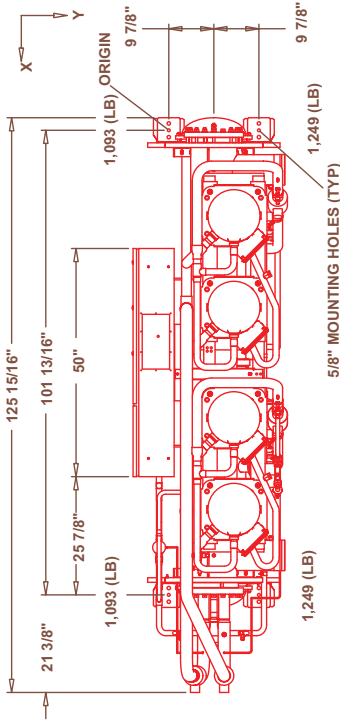


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0084SE46 AHRI CAPACITY 76.6 TONS



- NOTES:
- CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 - TUBE CLEARANCE AND REMOVAL - 4 COMPRESSOR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL - 6 COMPRESSOR UNITS: 156" (NOT SHOWN)
 - WEIGHTS (LB): SHIPPING - 4,469, OPERATING - 4,684.
ASHRAE/ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26 EG1
 - CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.6"

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0084SE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

YORK
A JOHNSON CONTROLS COMPANY

YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0084HE46	82.8	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.9
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	22
Design Flow Rate (USGPM)	198.6	Flow Rate (gpm)	248.3	Physical Data	
Pressure Drop (ft. H ₂ O)	7.6	Pressure Drop (ft.)	11.3	Rigging Wt. (lb)	5089
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	5584
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	59.8	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	30.4 / 30.4	30.4 / 30.4		
Compressor Start Current (LRA)	225 / 225	225 / 225		

Single Point				
Min. Circuit Ampacity	129			
Min. Non-Fused Disconnect (Amps)	150			
Min. Circuit Breaker (Amps)	150			
Max. Circuit Breaker (Amps)	150			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	121.6		Operating Condition Electrical Data	
Inrush (PW) Amps	225		Compressor kW	58.7
Starter Type	Across the Line		Total kW	58.7

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	82.8	85	94.7	58.7	16.9
75	64.5	76.2	83.5	39.5	19.6
50	44.7	66.6	71.6	22.9	23.4
25	21.9	65	67.4	11	23.9

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	60	58	66	71	72	77	70	59	80
75	59	56	65	70	70	76	69	58	79
50	57	55	63	68	69	74	67	56	77
25	54	52	60	65	66	71	64	53	74

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

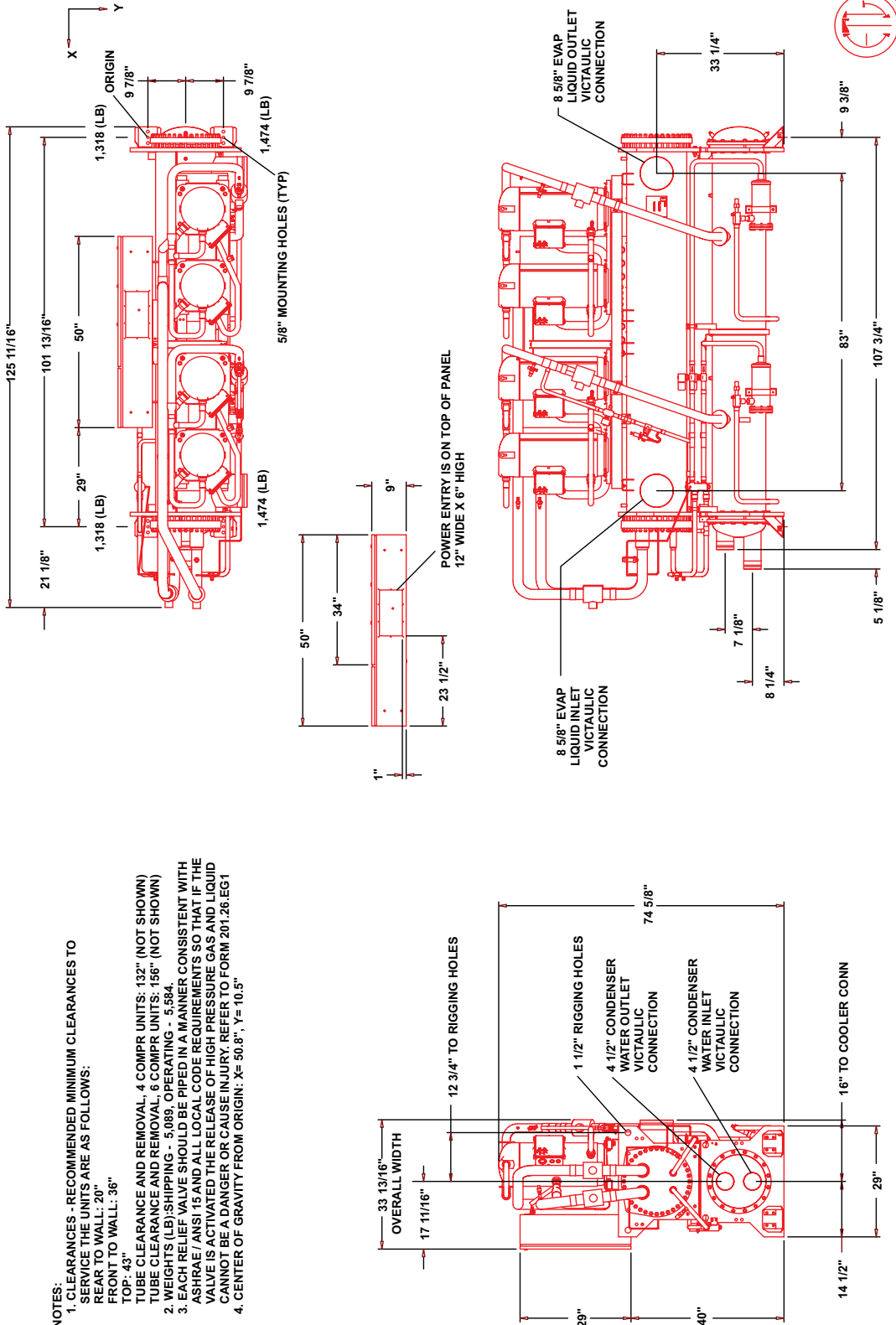


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0084HE46 AHRI CAPACITY 82.8 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
WEIGHTS (LB): SHIPPING - 5,089, OPERATING - 5,584.
 3. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.5"



DATE :
REV. DATE :
FORM : 201.26-EG1
DWG. REV. : 10/07
DWG. SCALE : NTS

SOLD TO :
CUST PURCH ORDER# :
YORK CONTRACT# :
UNIT :
TAG :

PROJECT NAME : Contractors Guide
LOCATION :
ENGINEER :
CONTRACTOR :
FOR :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0084HE46
NOT FOR CONSTRUCTION

YCWL
50 TO 90

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0094SE46	86	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.2
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	21.6
Design Flow Rate (USGPM)	206.3	Flow Rate (gpm)	257.9	Physical Data	
Pressure Drop (ft. H ₂ O)	13.3	Pressure Drop (ft.)	12.1	Rigging Wt. (lb)	5023
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	5338
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	37.3	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	42.9 / 42.9	30.4 / 30.4		
Compressor Start Current (LRA)	250 / 250	225 / 225		

Single Point				
Min. Circuit Ampacity	157			
Min. Non-Fused Disconnect (Amps)	200			
Min. Circuit Breaker (Amps)	175			
Max. Circuit Breaker (Amps)	200			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	146.6		Operating Condition Electrical Data	
Inrush (PW) Amps	250		Compressor kW	63.6
Starter Type	Across the Line		Total kW	63.6

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	86	85	94.7	63.6	16.2
75	66.7	76	83.4	41.5	19.3
50	47.8	67.2	72.4	25.4	22.6
25	21.9	65	67.3	11	23.9

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	67	61	68	74	75	76	70	58	80
75	65	59	66	72	73	75	69	57	79
50	64	58	65	71	72	73	67	55	77
25	54	52	60	65	66	71	64	53	74

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

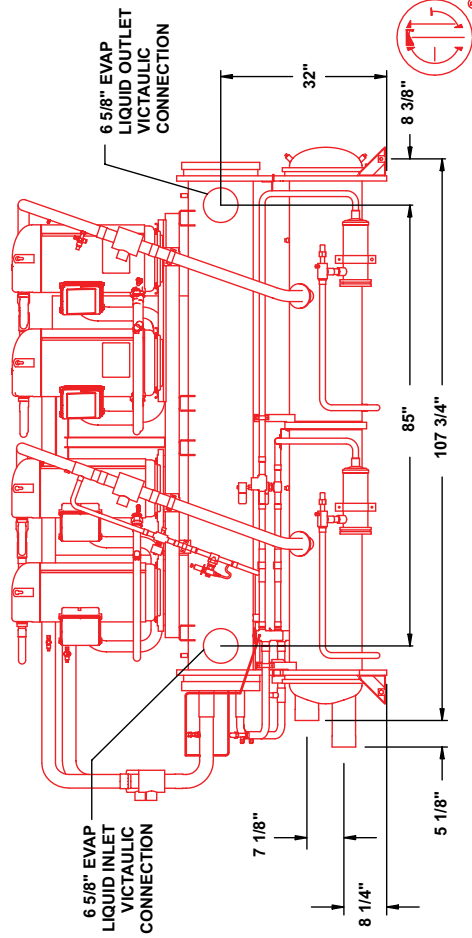
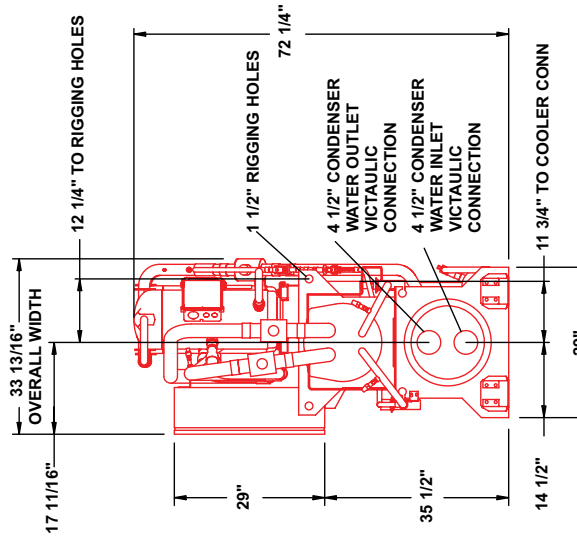
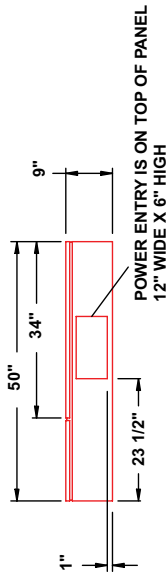
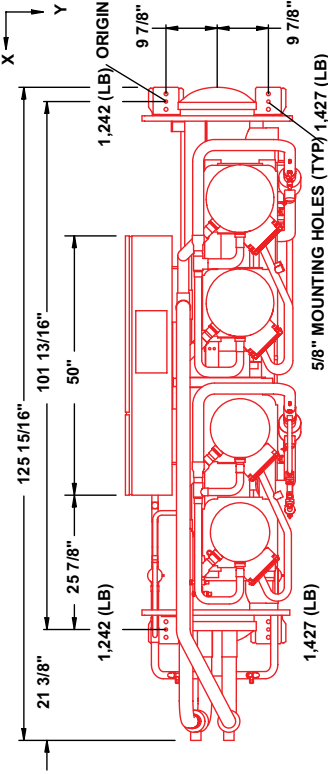


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0094SE46 AHRI CAPACITY 86 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
2. WEIGHTS (LB): SHIPPING - 5,023, OPERATING - 5,338.
3. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
4. CENTER OF GRAVITY FROM ORIGIN: X= 50.9", Y= 10.7"



Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0094SE46
NOT FOR CONSTRUCTION

YCWL
50 TO 90

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0094HE46	89.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	17
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	22
Design Flow Rate (USGPM)	214.9	Flow Rate (gpm)	268.7	Physical Data	
Pressure Drop (ft. H ₂ O)	8.7	Pressure Drop (ft.)	5.8	Rigging Wt. (lb)	5773
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	6412
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	59.8	Water Vol. (gal)	44.1		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	42.9 / 42.9	30.4 / 30.4		
Compressor Start Current (LRA)	250 / 250	225 / 225		

Single Point				
Min. Circuit Ampacity	157			
Min. Non-Fused Disconnect (Amps)	200			
Min. Circuit Breaker (Amps)	175			
Max. Circuit Breaker (Amps)	200			
Wire Range (Lug Size)	(1)#10 - 300			
Total Amps	146.6		Operating Condition Electrical Data	
Inrush (PW) Amps	250		Compressor kW	63.3
Starter Type	Across the Line		Total kW	63.3

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	89.6	85	94.7	63.3	17
75	68.5	75	82.8	41	20.1
50	48	66.4	71.3	25	23
25	21.9	65	67.2	10.9	24.1

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	67	61	68	74	75	76	70	58	80
75	65	59	66	72	73	75	69	57	79
50	64	58	65	71	72	73	67	55	77
25	54	52	60	65	66	71	64	53	74

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

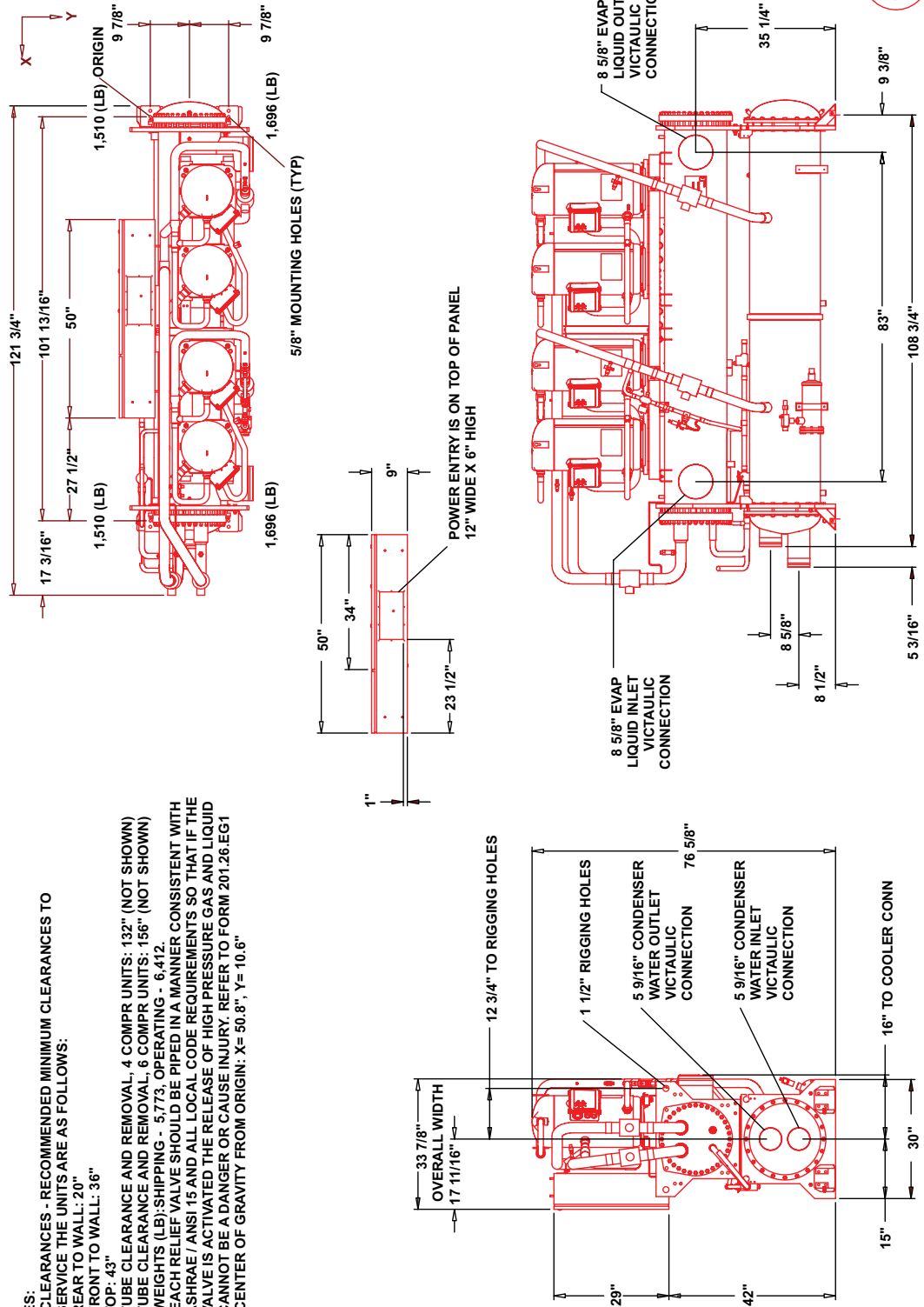


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0094HE46 AHRI CAPACITY 89.6 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 5,773, OPERATING - 6,412.
 4. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26-EG1
 5. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.6"

PRODUCT DRAWING

WATER-COOLED SCROLL CHILLER
MODEL: YCWL0094HE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS



YCWL
50 TO 90

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0096HE46	94.7	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85.0	EER (EER)	16.8
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	20.5
Design Flow Rate (USGPM)	227.3	Flow Rate (gpm)	284.1	Physical Data	
Pressure Drop (ft. H ₂ O)	8.1	Pressure Drop (ft.)	7.9	Rigging Wt. (lb)	6253
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	6981
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	57.6	Water Vol. (gal)	52.4		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	26.9 / 26.9	26.9 / 26.9		
Compressor Start Current (LRA)	187 / 187	187 / 187		

Single Point				
Min. Circuit Ampacity	168			
Min. Non-Fused Disconnect (Amps)	200			
Min. Circuit Breaker (Amps)	175			
Max. Circuit Breaker (Amps)	175			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	161.4		Operating Condition Electrical Data	
Inrush (PW) Amps	187		Compressor kW	67.8
Starter Type	Across the Line		Total kW	67.8

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	94.7	85	94.7	67.8	16.8
83.3	81	79.2	87.3	53	18.3
66.7	66.2	73	79.5	39.8	20
50	50.1	66.1	71.1	28.3	21.2
33.3	33	65	68.2	18.4	21.5
16.7	16.2	65	66.6	9.1	21.4

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	61	54	55	69	70	71	64	55	75
83.3	60	53	55	69	69	74	63	54	74
66.7	59	52	54	98	68	69	62	53	73
50	58	51	52	66	67	68	61	52	72
33.3	56	49	51	65	65	66	59	59	70
16.7	53	46	48	62	62	63	56	56	67

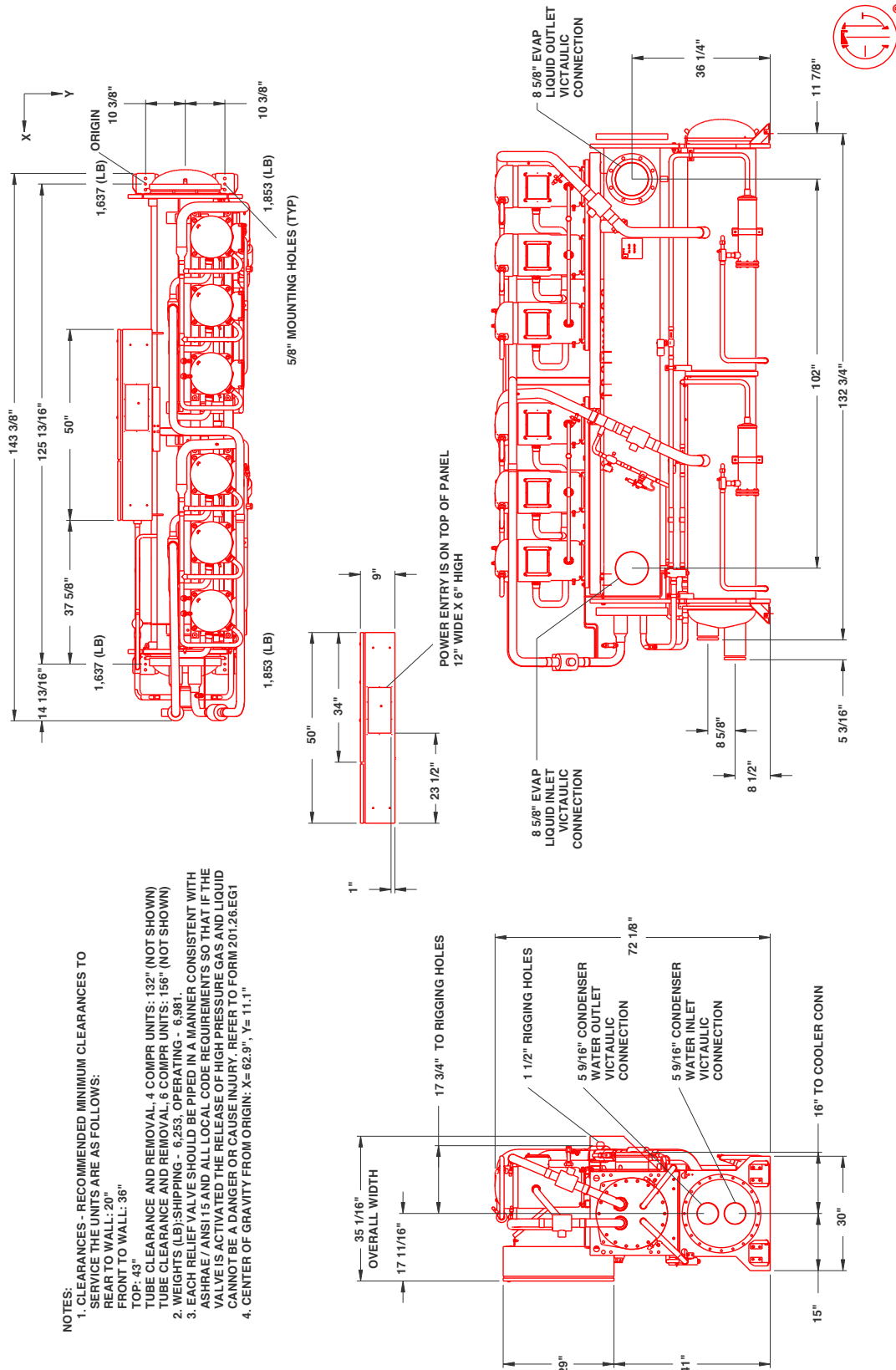
* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and test repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org



Software Version	YW14.01a
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PRODUCT DRAWING WATER-COOLED SCROLL CHILLER MODEL: YCWL0096HE46 NOT FOR CONSTRUCTION	Project Name : blah Location : Engineer : Contractor : For :	Sold To : Cust Purch Order# : York Contract# : UNIT TAG:	Date : 5/9/2014 9:59:25 Rev. Date : Form : 201.26-EG1 Dwg. Lev. : 10/07 Dwg. Scale : NTS	YORK A JOHNSON CONTROLS COMPANY

YCWL
91 TO 130

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0104SE46	93	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.2
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	21
Design Flow Rate (USGPM)	223.1	Flow Rate (gpm)	278.9	Physical Data	
Pressure Drop (ft. H ₂ O)	11.1	Pressure Drop (ft.)	13.8	Rigging Wt. (lb)	5157
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	5472
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	37.3	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	42.9 / 42.9	42.9 / 42.9		
Compressor Start Current (LRA)	250 / 250	250 / 250		

Single Point				
Min. Circuit Ampacity	182			
Min. Non-Fused Disconnect (Amps)	200			
Min. Circuit Breaker (Amps)	200			
Max. Circuit Breaker (Amps)	225			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	171.6		Operating Condition Electrical Data	
Inrush (PW) Amps	250		Compressor kW	68.8
Starter Type	Across the Line		Total kW	68.8

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	93	85	94.7	68.8	16.2
75	72.7	76.3	83.7	46.4	18.8
50	51	66.9	72	27.5	22.2
25	24.9	65	67.5	13.2	22.6

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	70	63	69	76	77	74	70	56	81
75	69	62	68	75	76	73	69	55	79
50	67	60	66	73	74	71	67	53	78
25	64	57	63	70	71	68	64	50	75

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

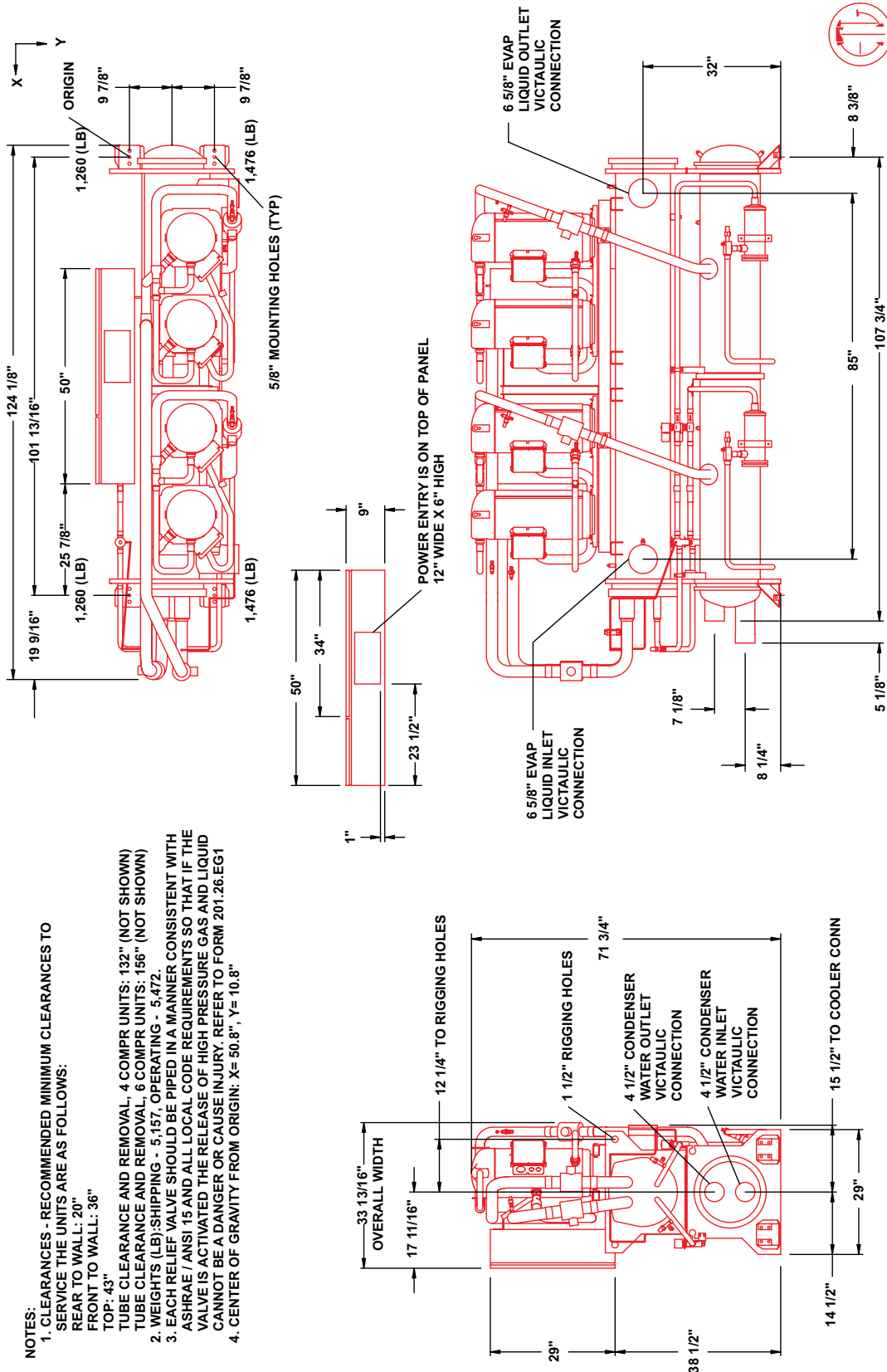
TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +3 DBA on the A-Weighted levels and +5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org



Software Version	YW14.01a
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- NOTES:**
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
FRONT TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 5,157, OPERATING - 5,472.
 4. EACH RELIEF VALVE SHOULD BE PIPIED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 5. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.8"



PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0104SE46
NOT FOR CONSTRUCTION

YORK
A JOHNSON CONTROLS COMPANY

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

YCWL
91 TO 130

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0118SE46	110.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	15.8
LWT (°F)	44	LWT (°F)	94.8	IPLV (EER)	23.7
Design Flow Rate (USGPM)	265.4	Flow Rate (gpm)	331.8	Physical Data	
Pressure Drop (ft. H ₂ O)	15.2	Pressure Drop (ft.)	18.5	Rigging Wt. (lb)	4983
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	5298
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	37.3	Water Vol. (gal)	26.9		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	54.5 / 54.5	42.9 / 42.9		
Compressor Start Current (LRA)	310 / 310	250 / 250		

Single Point				
Min. Circuit Ampacity	208.4			
Min. Non-Fused Disconnect (Amps)	250			
Min. Circuit Breaker (Amps)	225			
Max. Circuit Breaker (Amps)	175			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	194.8		Operating Condition Electrical Data	
Inrush (PW) Amps	310		Compressor kW	82
Starter Type	Across the Line		Total kW	82

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	117.5	85	94.5	82	17.2
75	89.8	75.6	82.6	49.2	21.9
50	64.5	67	71.8	29.1	26.6
25	27.7	65	67.1	11.9	28

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	42	38	57	65	68	67	66	59	73
75	40	38	55	63	67	66	65	57	72
50	39	35	54	62	65	64	63	56	70
25	33	34	44	56	62	62	60	52	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org



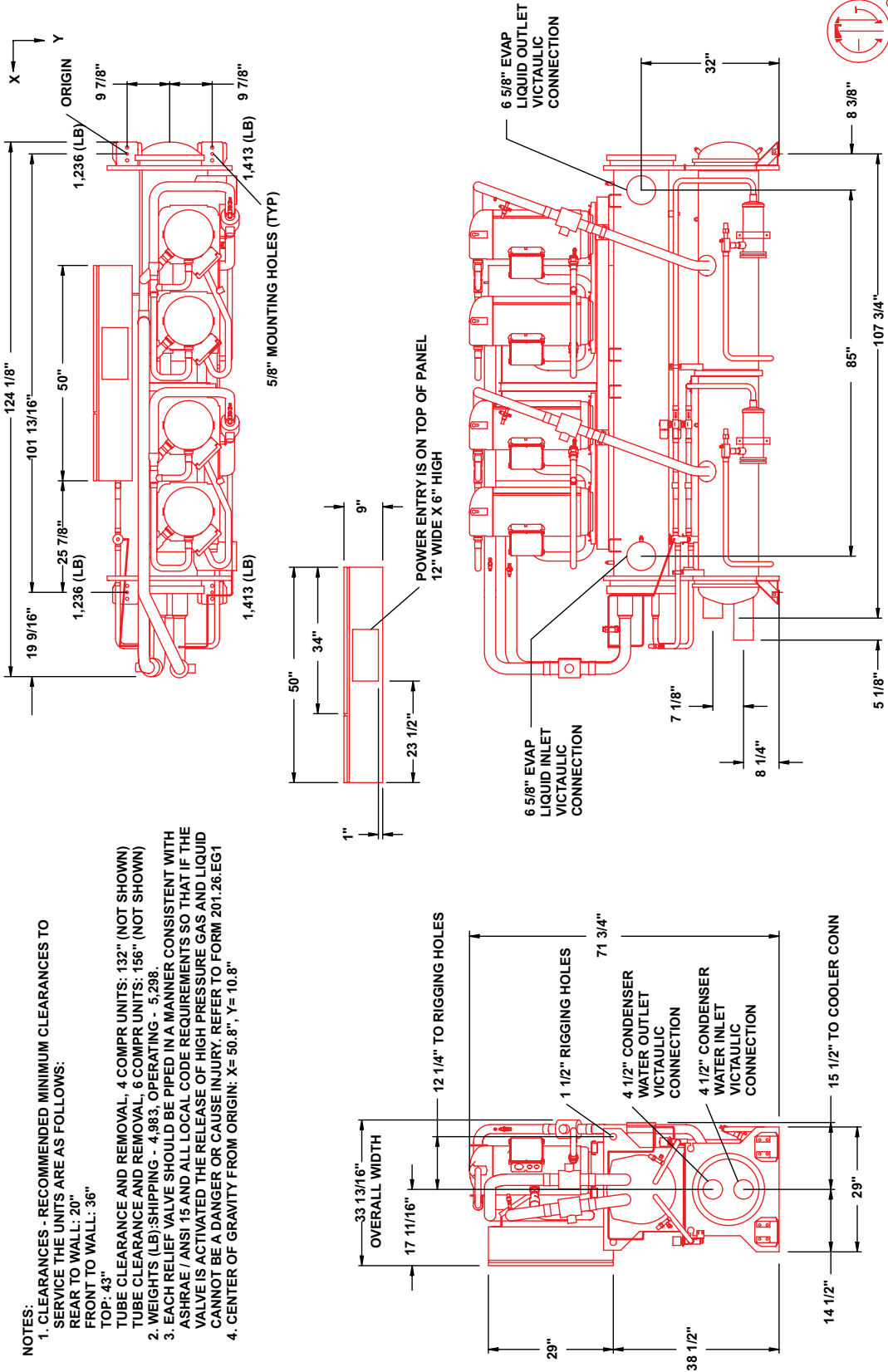
Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0118SE46 AHRI CAPACITY 110.6 TONS

- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
FRONT TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 4,983, OPERATING - 5,298.
 4. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 5. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.8"



PRODUCT DRAWING

WATER-COOLED SCROLL CHILLER
MODEL: YCWL0118SE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS



YCWL
91 TO 130

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0118HE46	117.5	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	17.2
LWT (°F)	44	LWT (°F)	94.8	IPLV (EER)	24.9
Design Flow Rate (USGPM)	281.9	Flow Rate (gpm)	352.4	Physical Data	
Pressure Drop (ft. H ₂ O)	14.3	Pressure Drop (ft.)	9.2	Rigging Wt. (lb)	5733
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	6372
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	59.8	Water Vol. (gal)	44.1		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	54.5 / 54.5	42.9 / 42.9		
Compressor Start Current (LRA)	310 / 310	250 / 250		

Single Point				
Min. Circuit Ampacity	208.4			
Min. Non-Fused Disconnect (Amps)	250			
Min. Circuit Breaker (Amps)	225			
Max. Circuit Breaker (Amps)	225			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	194.8		Operating Condition Electrical Data	
Inrush (PW) Amps	310		Compressor kW	84.2
Starter Type	Across the Line		Total kW	84.2

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	110.6	85	94.8	84.2	15.8
75	85.7	76	83.3	50.6	20.3
50	62.7	67.7	72.9	29.9	25.2
25	27	65	67.2	12	27

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	42	38	57	65	68	67	66	59	73
75	40	38	55	63	67	66	65	57	72
50	39	35	54	62	65	64	63	56	70
25	33	34	44	56	62	62	60	52	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

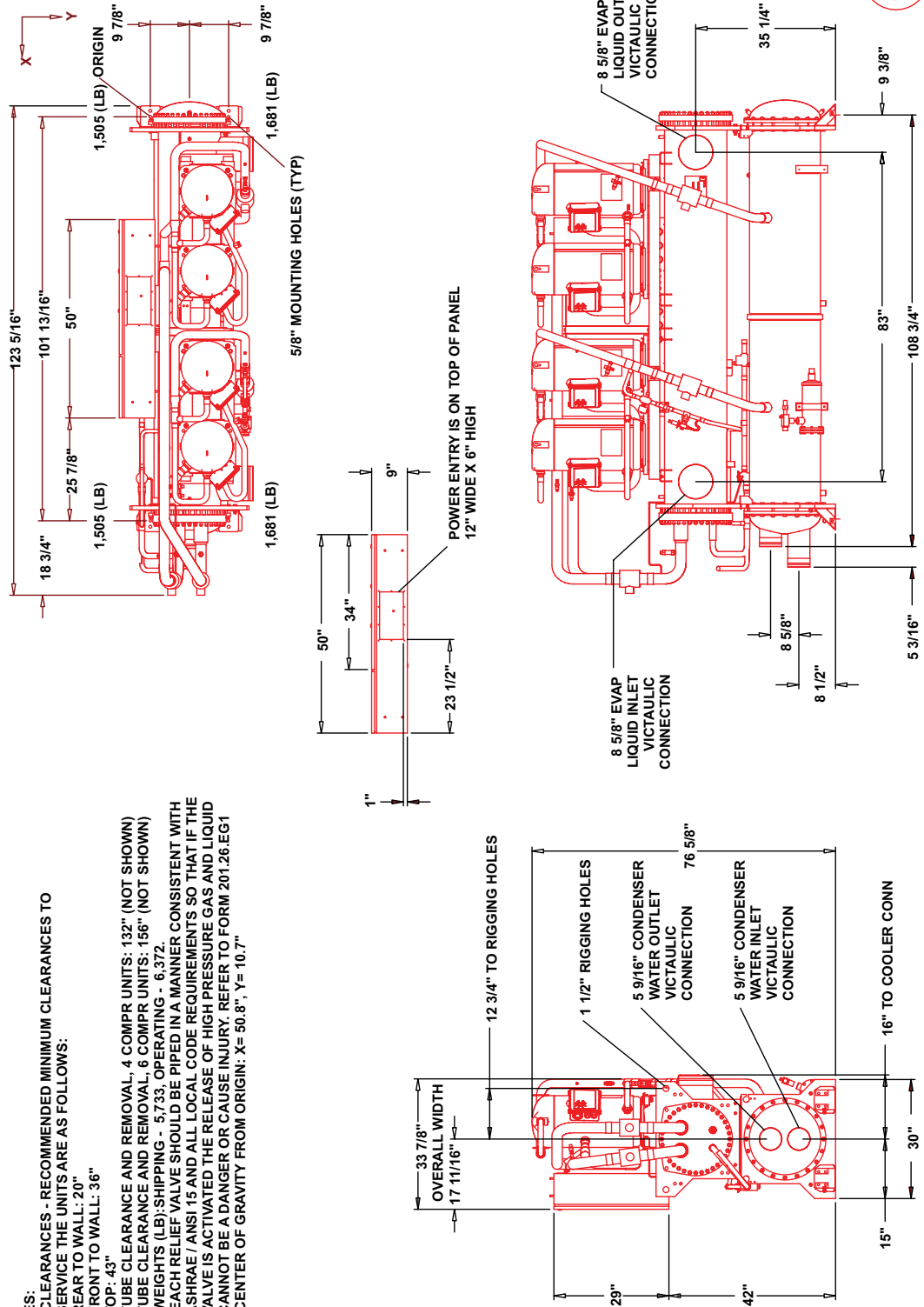


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0118HE46 AHRI CAPACITY 117.5 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 5,733, OPERATING - 6,372.
ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26-EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.7"

PRODUCT DRAWING

WATER-COOLED SCROLL CHILLER
MODEL: YCWL0118HE46
NOT FOR CONSTRUCTION

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Date :
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS



YCWL
91 TO 130

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0127HE46	128.7	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	17
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	24.8
Design Flow Rate (USGPM)	308.9	Flow Rate (gpm)	386.1	Physical Data	
Pressure Drop (ft. H ₂ O)	9	Pressure Drop (ft.)	13.3	Rigging Wt. (lb)	6743
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	7631
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	77	Water Vol. (gal)	52.4		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	34.4 / 34.4 / 34.4	54.4 / 54.4		
Compressor Start Current (LRA)	225 / 225 / 225	310 / 310		

Single Point				
Min. Circuit Ampacity	225.8			
Min. Non-Fused Disconnect (Amps)	250			
Min. Circuit Breaker (Amps)	250			
Max. Circuit Breaker (Amps)	250			
Total Amps	212.2		Operating Condition Electrical Data	
Inrush (PW) Amps	310		Compressor kW	90.8
Starter Type	Across the Line		Total kW	90.8

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	128.7	85	94.7	90.8	17
83.7	111.4	79.6	87.8	68.5	19.5
58.1	80.7	70.1	75.8	39.4	24.5
41.9	58.6	65	69.1	25.6	27.5
16.3	22.3	65	66.5	9.3	28.8

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	46	36	57	67	68	68	65	59	73
83.7	45	35	57	66	67	67	64	58	72
58.1	44	34	55	65	65	66	63	56	71
41.9	42	32	54	3/63	64	64	61	55	69
16.3	40	30	44	60	60	62	58	50	66

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and test repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

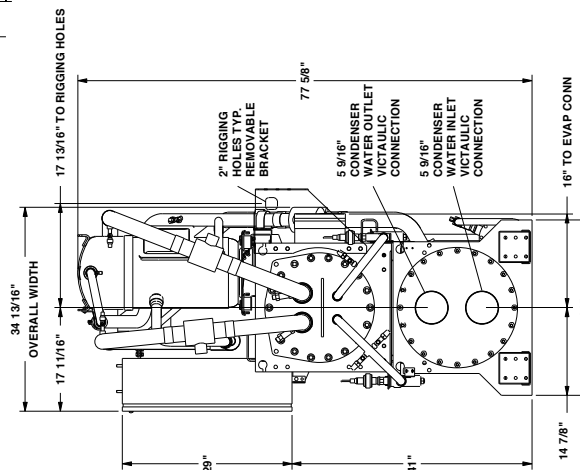
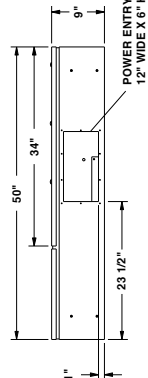
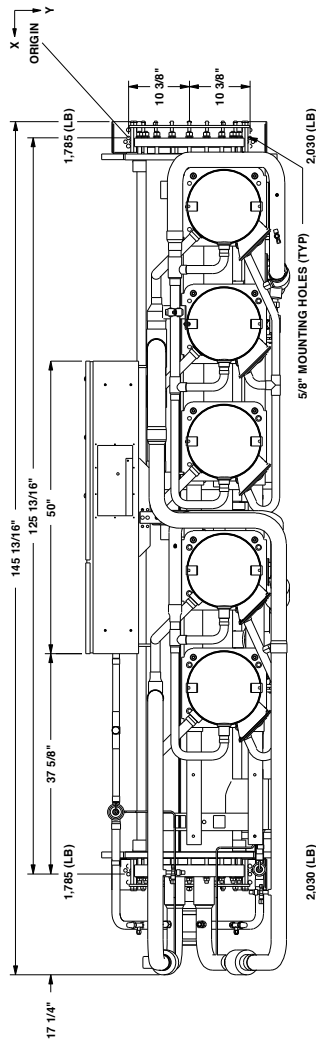


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0127HE46 AHRI CAPACITY 128.7 TONS



Date : 5/9/2014 10:11:19
Rev. Date :
Form : 201.26-EG1
Dwg. Lev. : 10/07
Dwg. Scale : NTS

Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : blah
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0127HE46
NOT FOR CONSTRUCTION

YCWL
91 TO 130

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0132SE46	127.6	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.4
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	23.7
Design Flow Rate (USGPM)	306.2	Flow Rate (gpm)	382.7	Physical Data	
Pressure Drop (ft. H ₂ O)	16.5	Pressure Drop (ft.)	15.5	Rigging Wt. (lb)	5463
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	6027
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	59.8	Water Vol. (gal)	35.2		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	54.5 / 54.5	54.5 / 54.5		
Compressor Start Current (LRA)	310 / 310	310 / 310		

Single Point				
Min. Circuit Ampacity	231.6			
Min. Non-Fused Disconnect (Amps)	400			
Min. Circuit Breaker (Amps)	250			
Max. Circuit Breaker (Amps)	250			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	218		Operating Condition Electrical Data	
Inrush (PW) Amps	310		Compressor kW	93.4
Starter Type	Across the Line		Total kW	93.4

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	127.6	85	94.7	93.4	16.4
75	100.3	76.5	83.8	60.2	20
50	70.8	67.2	72.2	33.3	25.5
25	34.7	65	67.5	15.7	26.5

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	44	34	60	66	68	66	65	60	73
75	42	33	59	65	66	65	64	59	71
50	41	31	57	63	65	63	62	57	70
25	38	28	54	60	62	60	59	54	67

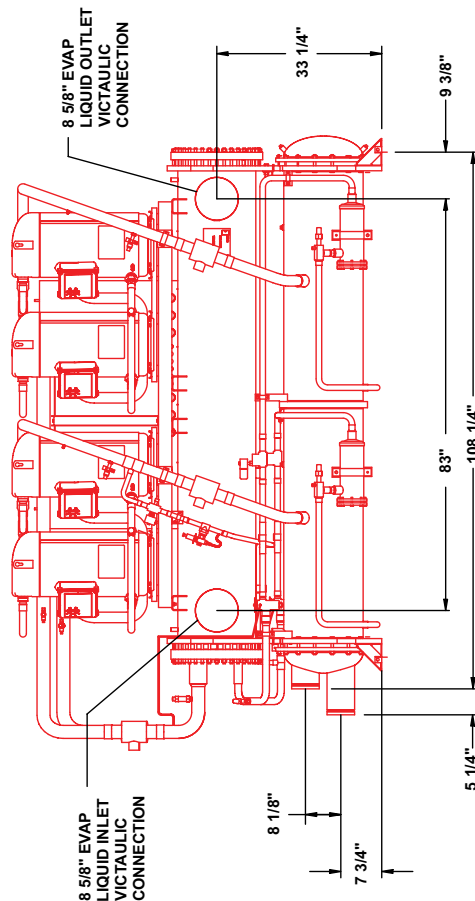
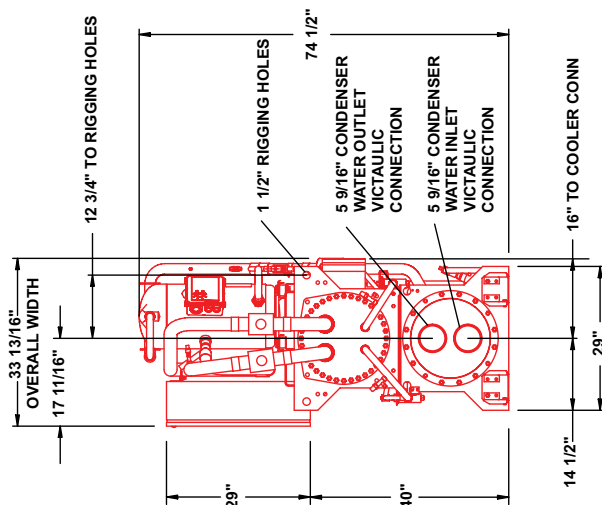
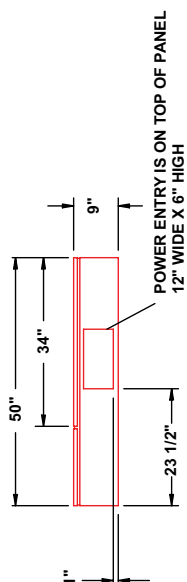
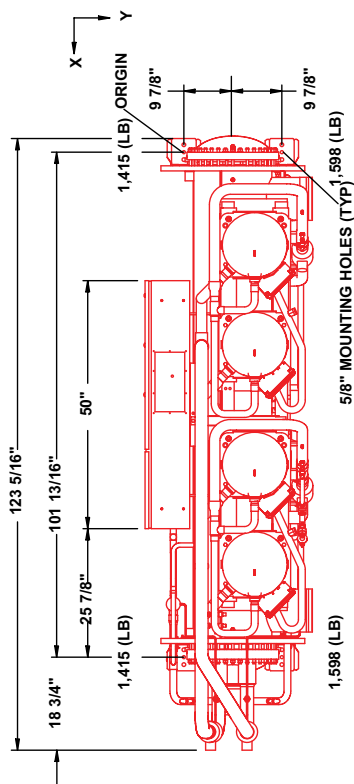
* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org



Software Version	YW14.01a
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- NOTES:**
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
 2. TUBE CLEARANCE AND REMOVAL, 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COMPR UNITS: 156" (NOT SHOWN)
 3. WEIGHTS (LB): SHIPPING - 5,463. OPERATING - 6,027.
3. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
 4. CENTER OF GRAVITY FROM ORIGIN: X= 50.8", Y= 10.7"

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0132SE46
NOT FOR CONSTRUCTION

YORK
A JOHNSON CONTROLS COMPANY

Date:
Rev. Date:
Form: 201.26-EG1
Dwg. Lev.: 10/07
Dwg. Scale: NTS

Sold To:
Cust Purch Order#:
York Contract#:
UNIT
TAG:

Project Name: Contractors Guide
Location:
Engineer:
Contractor:
For:

YCWL
91 TO 130

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0157SE46	144.2	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	16.6
LWT (°F)	44	LWT (°F)	94.7	IPLV (EER)	23.6
Design Flow Rate (USGPM)	346	Flow Rate (gpm)	432.5	Physical Data	
Pressure Drop (ft. H ₂ O)	17.3	Pressure Drop (ft.)	16.1	Rigging Wt. (lb)	6163
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	6891
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	57.6	Water Vol. (gal)	52.4		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	54.5 / 54.5	54.5 / 54.5		
Compressor Start Current (LRA)	310 / 310	310 / 310		

Single Point				
Min. Circuit Ampacity	231.6			
Min. Non-Fused Disconnect (Amps)	400			
Min. Circuit Breaker (Amps)	250			
Max. Circuit Breaker (Amps)	250			
Total Amps	218		Operating Condition Electrical Data	
Inrush (PW) Amps	310		Compressor kW	104.4
Starter Type	Across the Line		Total kW	104.4

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	144.2	85	94.7	104.3	16.6
75	113.6	76.5	83.9	67.9	20.1
50	80.3	67.3	72.3	37.9	25.4
25	39.3	65	67.5	17.9	26.4

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	45	33	55	65	70	73	67	58	76
75	44	32	54	64	69	72	66	57	75
50	42	30	52	62	67	70	64	55	73
25	39	27	49	59	64	67	61	52	70

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and test repeatability. Variations of +-3 dBA on the A-Weighted levels and +-5 dB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org



Software Version	YW14.01a
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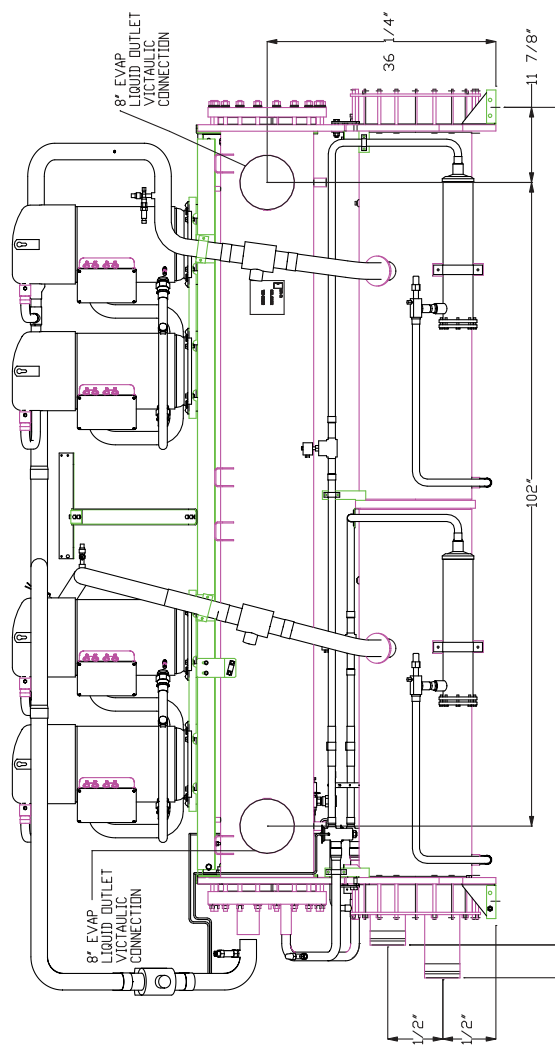
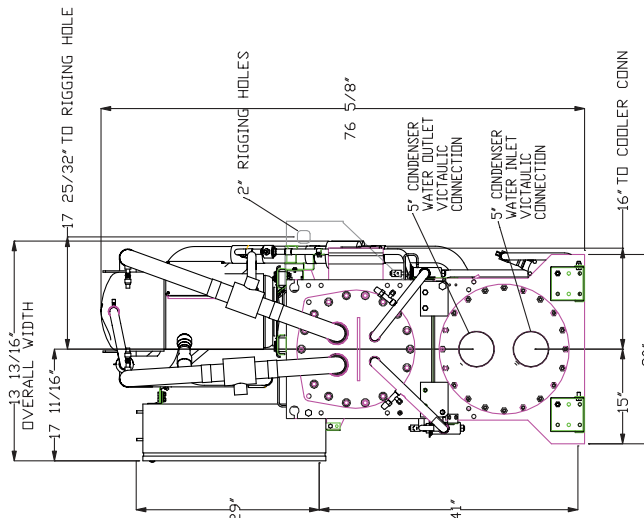
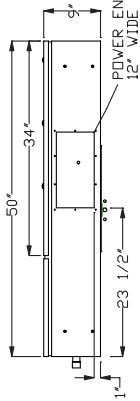
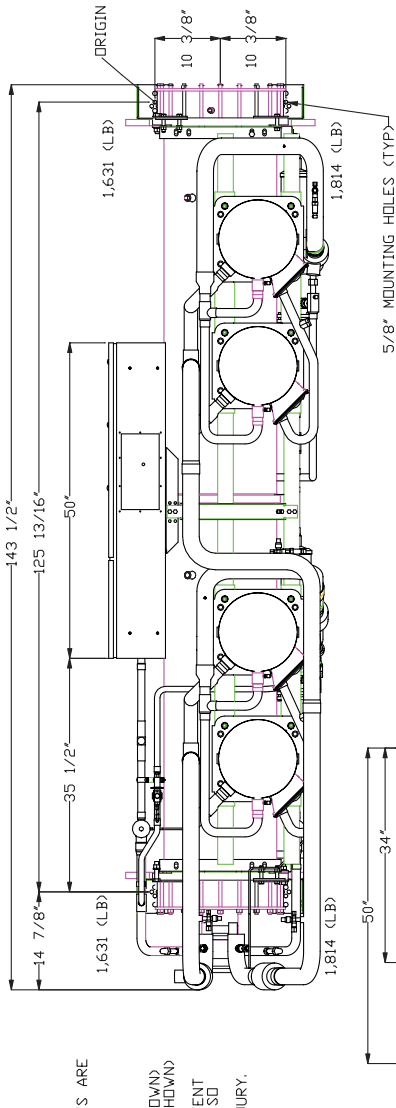


BY JOHNSON CONTROLS

MODEL: YCWL0157SE46 AHRI CAPACITY 144.2 TONS

NOTES:

1. CLEARANCES - RECOMMENDED MINIMUM TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TUBE CLEARANCE AND REMOVAL, 4 COPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL, 6 COPR UNITS: 156" (NOT SHOWN)
2. WEIGHTS (LB) SHIPPING - 6,153 OPERATING - 6,891
3. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE/ANSI 15 AND ALL LOCAL CONDE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE DANGER OR CAUSE INJURY. REFER TO FORM 201.26EG1
4. CENTER OF GRAVITY FROM ORIGIN: X=62.9", Y=11.3"



PRODUCT DRAWING

WATER-COOLED SCROLL CHILLER

MODEL: YCWL0157SE46

NOT FOR CONSTRUCTION

Project Name : Contractors Guide

Location :

Engineer :

Contractor :

For :

Sold To :

Cust Purch Order# :

York Contract# :

UNIT

TAG:

Date :

Rev. Date :

Form : 201.26-EG1

Dwg. Lev. : 1007

Dwg. Scale : NTS



A JOHNSON CONTROLS COMPANY

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0157HE46	148.9	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	17.3
LWT (°F)	44	LWT (°F)	94.5	IPLV (EER)	24.3
Design Flow Rate (USGPM)	357.4	Flow Rate (gpm)	446.7	Physical Data	
Pressure Drop (ft. H ₂ O)	11.7	Pressure Drop (ft.)	13.6	Rigging Wt. (lb)	6863
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	7807
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	77	Water Vol. (gal)	59.1		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	54.5 / 54.5	54.5 / 54.5		
Compressor Start Current (LRA)	310 / 310	310 / 310		

Single Point				
Min. Circuit Ampacity	231.6			
Min. Non-Fused Disconnect (Amps)	400			
Min. Circuit Breaker (Amps)	250			
Max. Circuit Breaker (Amps)	250			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	218		Operating Condition Electrical Data	
Inrush (PW) Amps	310		Compressor kW	103.6
Starter Type	Across the Line		Total kW	103.6

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	148.9	85	94.5	103.6	17.3
75	117	76.4	83.6	66.8	21
50	81.5	66.9	71.8	37.6	26
25	39.9	65	67.4	17.8	26.9

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	45	33	55	65	70	73	67	58	76
75	44	32	54	64	69	72	66	57	75
50	42	30	52	62	67	70	64	55	73
25	39	27	49	59	64	67	61	52	70

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and est repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org



Software Version	YW14.01a
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YCWL
131 TO 200

Water-Cooled Scroll Chiller Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0177SE46	167	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85	EER (EER)	17.2
LWT (°F)	44	LWT (°F)	94.6	IPLV (EER)	25.5
Design Flow Rate (USGPM)	400.9	Flow Rate (gpm)	501.1	Physical Data	
Pressure Drop (ft. H ₂ O)	14.4	Pressure Drop (ft.)	16.6	Rigging Wt. (lb)	7318
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	8262
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	77	Water Vol. (gal)	59.1		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	49.2 / 49.2 / 49.2	49.2 / 49.2		
Compressor Start Current (LRA)	242 / 242 / 242	242 / 242		

Single Point				
Min. Circuit Ampacity	258			
Min. Non-Fused Disconnect (Amps)	400			
Min. Circuit Breaker (Amps)	300			
Max. Circuit Breaker (Amps)	300			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	246		Operating Condition Electrical Data	
Inrush (PW) Amps	242		Compressor kW	116.4
Starter Type	Across the Line		Total kW	116.4

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	167	85	94.6	116.4	17.2
83.7	141.2	78.8	86.7	80.7	21
58.1	108.6	71	76.9	52.9	24.6
41.9	73.6	65	68.9	31	28.5
16.3	35.8	65	66.9	15.2	28.3

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	45	35	61	67	69	67	66	61	74
83.7	44	34	60	66	68	66	65	60	73
58.1	42	33	59	65	66	65	64	59	71
41.9	41	31	57	63	65	63	62	57	70
16.3	38	28	54	60	62	60	59	54	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and test repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

Certified in accordance with the AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

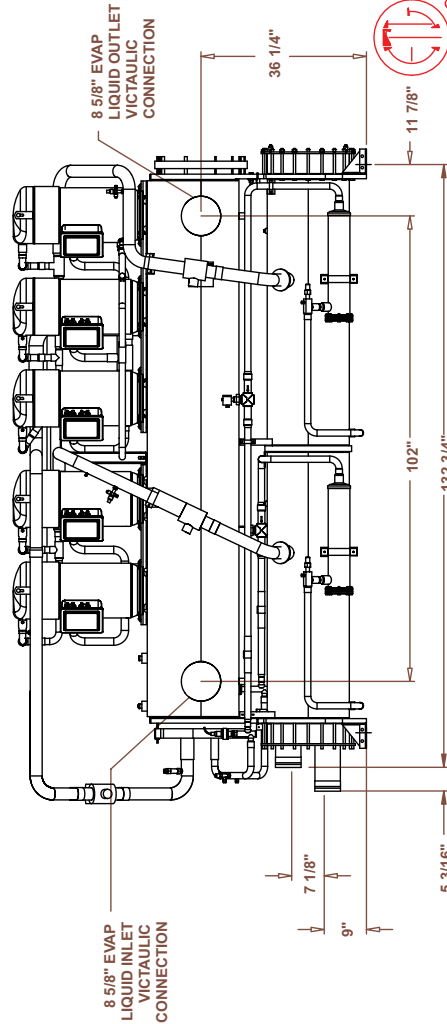
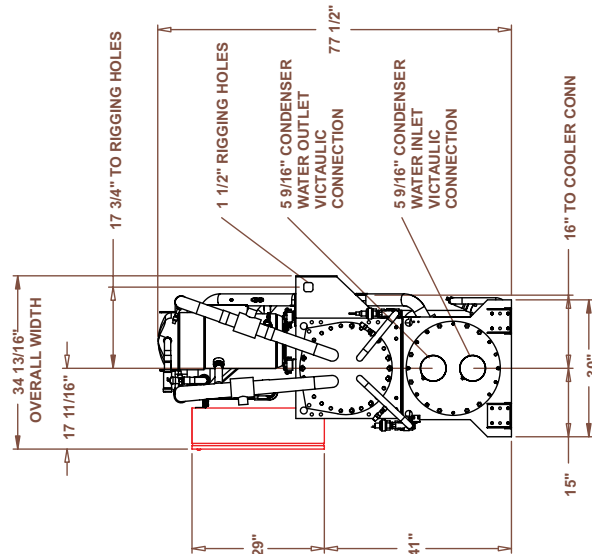
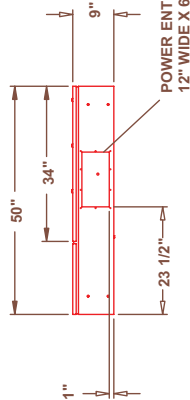
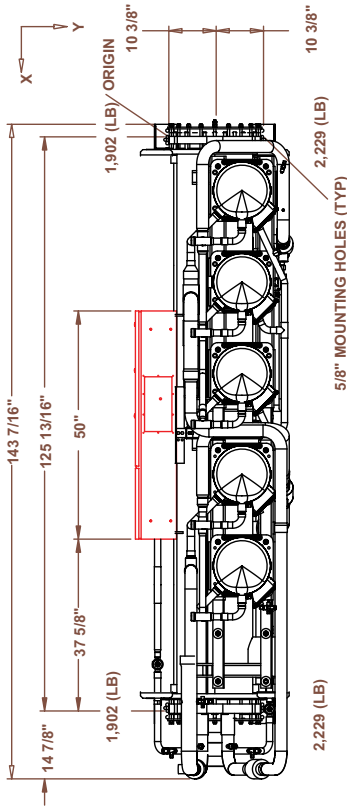


Software Version	YW14.01a
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BY JOHNSON CONTROLS

MODEL: YCWL0177SE46 AHRI CAPACITY 167 TONS



- NOTES:
1. CLEARANCES - RECOMMENDED MINIMUM CLEARANCES TO SERVICE THE UNITS ARE AS FOLLOWS:
REAR TO WALL: 20"
FRONT TO WALL: 36"
TOP: 43"
TUBE CLEARANCE AND REMOVAL - 4 COMPR UNITS: 132" (NOT SHOWN)
TUBE CLEARANCE AND REMOVAL - 6 COMPR UNITS: 156" (NOT SHOWN)
2. WEIGHTS (LB): SHIPPING - 7,316, OPERATING - 8,262.
3. EACH RELIEF VALVE SHOULD BE PIPED IN A MANNER CONSISTENT WITH ASHRAE / ANSI 15 AND ALL LOCAL CODE REQUIREMENTS SO THAT IF THE VALVE IS ACTIVATED THE RELEASE OF HIGH PRESSURE GAS AND LIQUID CANNOT BE A DANGER OR CAUSE INJURY. REFER TO FORM 201.26.EG1
4. CENTER OF GRAVITY FROM ORIGIN: X= 62.9", Y= 11.7"



DATE :
REV. DATE :
FORM : 201.26-EG1
DWG. LEV. : 10/07
DWG. SCALE : NTS

SOLD TO :
CUST PURCH ORDER# :
YORK CONTRACT# :
UNIT
TAG:

PROJECT NAME : Contractors Guide
LOCATION :
ENGINEER :
CONTRACTOR :
FOR :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0177SE46
NOT FOR CONSTRUCTION

YCWL
131 TO 200

Water-Cooled Scroll Chiller

Performance Specification

Model No	Net Cooling Capacity (TR)	Nominal Voltage	Refrigerant Type
YCWL0198SE46	198.9	460-3-60	R410A

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	EWT (°F)	85.0	EER (EER)	16.9
LWT (°F)	44	LWT (°F)	94.5	IPLV (EER)	24.9
Design Flow Rate (USGPM)	477.3	Flow Rate (gpm)	596.6	Physical Data	
Pressure Drop (ft. H ₂ O)	19.7	Pressure Drop (ft.)	22.3	Rigging Wt. (lb)	7673
Fluid	Water	Fluid	Water 0.0	Operating Wt. (lb)	8617
Fouling Factor	0.0001	Fouling Factor	0.00025		
Water Volume (USGAL)	77	Water Vol. (gal)	59.1		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	49.2 / 49.2 / 49.2	49.2 / 49.2 / 49.2		
Compressor Start Current (LRA)	242 / 242 / 242	242 / 242 / 242		

Single Point				
Min. Circuit Ampacity	308			
Min. Non-Fused Disconnect (Amps)	400			
Min. Circuit Breaker (Amps)	350			
Max. Circuit Breaker (Amps)	350			
Wire Range (Lug Size)	(1)#4 - 500			
Total Amps	295.2		Operating Condition Electrical Data	
Inrush (PW) Amps	242		Compressor kW	140.9
Starter Type	Across the Line		Total kW	140.9

Part Load Rating Data					
Load %	Capacity (Tons)	Cond. EWT (°F)	Cond. LWT (°F)	Compressor kW	Unit Efficiency
100	198.9	85	94.5	140.9	16.9
83.3	172.3	79.7	87.7	106.2	19.5
66.7	144.4	74	80.6	76	22.8
50	110.5	67.2	72.2	50.7	26.2
33.3	73.3	65	68.3	31.5	27.9
16.7	35.9	65	66.6	15.5	27.8

AHRI 575 Sound Pressure Levels (dB Reference: 20 Micropascals) at 1 (meter) *									
Load %	63	125	250	500	1K	2K	4K	8K	dBA
100	45	36	62	68	69	68	67	62	74
83.3	45	35	61	67	69	67	66	61	74
66.7	44	34	60	66	68	66	65	60	73
50	42	33	59	65	66	65	64	59	71
33.3	41	31	57	63	65	63	62	62	70
16.7	38	28	54	60	62	60	59	59	67

* The octave and A-Weighted sound pressure levels are the levels expected to be obtained if measurements are performed in accordance with AHRI Standard 575-94 method of measuring machinery sound within equipment rooms.

TOLERANCES: The sound level of identical unit-selections can vary due to manufacturing tolerance and test repeatability. Variations of +-3 DBA on the A-Weighted levels and +-5 DB on the octave band levels are possible.

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Sold To :
Cust Purch Order# :
York Contract# :
UNIT
TAG:

Project Name : Contractors Guide
Location :
Engineer :
Contractor :
For :

PRODUCT DRAWING
WATER-COOLED SCROLL CHILLER
MODEL: YCWL0198SE46
NOT FOR CONSTRUCTION

YCWL
131 TO 200

Printed on recycled paper

Form: 050.05-TD1 (514) Supersedes: 050.05-TD1 (313)
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