Carrier

AquaForce® 30XA080-501 Air-Cooled Liquid Chillers

Installation Instructions

CONTENTS

SAFETY CONSIDERATIONS

Installing, starting up, and servicing this equipment can be hazardous due to system pressures, electrical components, and equipment location. Only trained, qualified installers and service mechanics should install, start up, and service this equipment.

When working on the equipment, observe precautions in the literature, and on tags, stickers, and labels attached to the equipment.

- Follow all safety codes.
- Wear safety glasses and work gloves.
- Use care in handling, rigging, and setting bulky equipment.

⚠ WARNING

DO NOT USE TORCH to remove any component. System contains oil and refrigerant under pressure.

To remove a component, wear protective gloves and goggles and proceed as follows:

a. Shut off electrical power to unit.
b. Recover refrigerant to relieve all pressure from system using both high-pressure and low pressure ports.
c. Traces of vapor should be displaced with nitrogen and the work area should be well ventilated. Refrigerant in contact with an open flame produces toxic gases.
d. Cut component connection tubing with tubing cutter and remove component from unit. Use a pan to catch any oil that may come out of the lines and as a gage for how much oil to add to the system.
e. Carefully un-sweat remaining tubing stubs when necessary. Oil can ignite when exposed to torch flame.

Failure to follow these procedures may result in personal injury or death.

⚠ WARNING

Electrical shock can cause personal injury and death. Shut off all power to this equipment during installation. There may be more than one disconnect switch. Tag all disconnect locations to alert others not to restore power until work is completed.

⚠ CAUTION

DO NOT re-use compressor oil or any oil that has been exposed to the atmosphere. Dispose of oil per local codes and regulations. DO NOT leave refrigerant system open to air any longer than the actual time required to service the equipment. Seal circuits being serviced and charge with dry nitrogen to prevent oil contamination when timely repairs cannot be completed. Failure to follow these procedures may result in damage to equipment.

IMPORTANT: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with these instructions may cause radio interference. It has been tested and found to comply with the limits of a Class A computing device as defined by FCC (Federal Communications Commission, U.S.A.) regulations, Subpart J of Part 15, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

INTRODUCTION

These instructions cover installation of 30XA080-501 air-cooled liquid chillers with electronic controls and units with factory-installed options (FIOPs). See Fig. 1.

INSTALLATION

Storage

If the unit is to be stored for a period of time before installation or start-up, be sure to protect the machine from construction dirt. Keep protective shipping covers in place until the machine is ready for installation.

Step 1 — Inspect Shipment

Inspect unit for damage upon arrival. If damage is found, immediately file a claim with the shipping company, and contact your local Carrier representative.

Step 2 — Place, Mount, and Rig the Unit

When considering a location for the unit, be sure to consult NEC (National Electrical Code, U.S.A.) and/or local code requirements. Allow sufficient space for airflow, wiring, piping, and service. See Fig. 2-23.

NOTE: To facilitate refrigerant vent piping, all units have fusible plugs with 1/4 in. SAE (Society of Automotive Engineers) flares and pressure reliefs with 3/4 in. NPT fittings (if required by local codes).

NOTE: The 30XA501 units are shipped as two separate pieces referred to as the 501A module (section including cooler and compressors), referred to on the unit nameplate as 30XAB50A, and the 501B module, referred to on the unit nameplate as 30XAB50B. These two pieces must be field combined prior to installing cooler piping and electrical connections (see the section 30XA501 Unit Assembly on page 88).

PLACING UNIT

Locate the unit so that the condenser airflow is unrestricted both above and on the sides of the unit. Airflow and service clearances are 6 ft (1.8 m) around the unit. Acceptable clearance on the sides or ends without control boxes can be reduced to 3 ft (1 m) without sacrificing performance as long as the remaining three sides are unrestricted. Acceptable clearance on the side with a control box can be reduced to 4 ft (1.3 m) due to NEC regulations, without sacrificing performance as long as the remaining three sides are unrestricted. Provide ample room for servicing and removing the cooler. See Fig. 2-23 for required clearances. Local codes for clearances take precedence over the manufacturer's recommendations when local codes call for greater clearances. Units are suitable for outdoor use only.

If multiple units are installed at the same site, a minimum separation of 10 ft (3 m) between the sides of the machines is required to maintain proper airflow and minimize the chances of condenser air recirculation.

MOUNTING UNIT

The unit may be mounted on a level pad directly on the base rails, on a raised mounting rail around the unit, or on vibration isolation springs. For all units, ensure placement area is strong enough to support unit operating weight. See Tables 1-8. Mounting holes are provided for securing the unit to the pad, mounting rail or vibration isolation springs. Bolt the unit securely to pad or rails. If vibration isolators (field-supplied) are required for a particular installation, refer to unit weight distribution in Fig. 24-26 to aid in the proper selection of isolators. The 30XA units can be mounted directly on spring isolators. Once installed, the unit must be level to within 1/8-in. per ft (1 cm per meter) along the long axis of the oil separator. This is required for oil return to the compressor(s).

30XA A 200 6 F - 0 - - - L

30XA – AquaForce® Air-Cooled Chiller

Design Series

Unit Sizes*

080	102	140	182	240	282	350	451
082	110	142	200	242	300	352	476
090	112	160	202	260	302	400	500
092	120	162	220	262	325	401	501
100	122	180	222	280	327	450	

Voltage

1 – 575-3-60
2 – 380-3-60
4 – 230-3-60
6 – 460-3-60
7 – 200-3-60

Condenser Coil/Ambient/Low Sound Options

- – Aluminum Fin/Copper Tube, High Ambient Temperature
0 – Copper Fin/Copper Tube, High Ambient Temperature
1 – Aluminum Pre-Coat Fin/Copper Tube, High Ambient Temperature
2 – Aluminum E-Coat Fin/Copper Tube, High Ambient Temperature
3 – Copper E-Coat Fin/Copper Tube, High Ambient Temperature
4 – Novation® Heat Exchanger (MCHX), High Ambient Temperature
5 – MCHX E-Coat, High Ambient Temperature
6 – Aluminum Fin/Copper Tube, High Ambient Temperature, Low Sound
7 – Copper Fin/Copper Tube, High Ambient Temperature, Low Sound
8 – Aluminum Pre-Coat Fin/Copper Tube, High Ambient Temperature, Low Sound
9 – Aluminum E-Coat Fin/Copper Tube, High Ambient Temperature, Low Sound
B – Copper E-Coat Fin/Copper Tube, High Ambient Temperature, Low Sound
C – MCHX, High Ambient Temperature, Low Sound
D – MCHX E-Coat, High Ambient Temperature, Low Sound
F – Aluminum Fin/Copper Tube, Standard Ambient Temperature, Low Sound
G – Copper Fin/Copper Tube, Standard Ambient Temperature, Low Sound
H – Aluminum Pre-Coat Fin/Copper Tube, Standard Ambient Temperature, Low Sound
J – Aluminum E-Coated Fin/Copper Tube, Standard Ambient Temperature, Low Sound
K – Copper E-Coat Fin/Copper Tube, Standard Ambient Temperature, Low Sound
L – MCHX, Standard Ambient Temperature, Low Sound
M – MCHX E-Coat, Standard Ambient Temperature, Low Sound
N – Aluminum Fin/Copper Tube, Standard Ambient Temperature
P – Copper Fin/Copper Tube, Standard Ambient Temperature
Q – Aluminum Pre-Coat Fin/Copper Tube, Standard Ambient Temperature
R – Aluminum E-Coat Fin/Copper Tube, Standard Ambient Temperature
S – Copper E-Coat Fin/Copper Tube, Standard Ambient Temperature
T – MCHX, Standard Ambient Temperature
V – MCHX E-Coat, Standard Ambient Temperature

Hydronic Pump Package Options

- – None
1 – Single Pump, 5 HP
2 – Single Pump, 7.5 HP
3 – Single Pump, 10 HP
4 – Single Pump, 15 HP
7 – Dual Pump, 5 HP
8 – Dual Pump, 7.5 HP
B – Dual Pump, 10 HP
C – Dual Pump, 15 HP
G – Single Pump, 5 HP with VFD
H – Single Pump, 7.5 HP with VFD
J – Single Pump, 10 HP with VFD
K – Single Pump, 15 HP with VFD
N – Dual Pump, 5 HP with VFD
P – Dual Pump, 7.5 HP with VFD
Q – Dual Pump, 10 HP with VFD
R – Dual Pump, 15 HP with VFD

Cooler Options

- – Integral DX Cooler without Heater
0 – Integral Cooler with Heater†
1 – Integral DX Cooler with Heater, Hydronic Package
3 – Integral Flooded Cooler with Heater, Minus One Pass
5 – Integral Flooded Cooler with Heater, Plus One Pass
6 – Integral DX Cooler without Heater, Hydronic Package
7 – Integral Cooler with Heater, Full End Screen, Coil Trim Panels, Grilles†
8 – Integral DX Cooler with Heater, Hydronic Package, Full End Screen, Coil Trim Panels, Grilles
F – Integral DX Cooler without Heater, Hydronic Package, Full End Screen, Coil Trim Panels, Grilles
G – Integral DX Cooler without Heater, Full End Screen, Coil Trim Panels, Grilles
K – Integral Flooded Cooler with Heater, Minus One Pass, Full End Screen, Coil Trim Panels, Grilles
M – Integral Flooded Cooler with Heater, Plus One Pass, Full End Screen, Coil Trim Panels, Grilles

Packaging/Security Options

0 – Coil Face Shipping Protection (CFSP), Skid
1 – CFSP, Skid, Top Crate, Bag
3 – CFSP, Coil Trim Panels
4 – CFSP, Skid, Coil Trim Panels
5 – CFSP, Skid, Top Crate, Bag, Coil Trim Panels
7 – CFSP, Coil Trim Panels, Upper and Lower Grilles
8 – CFSP, Skid, Coil Trim Panels, Upper and Lower Grilles
9 – CFSP, Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles
C – CFSP, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
D – CFSP, Skid, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
F – CFSP, Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards
H – CFSP, Skid, High SCCR
J – CFSP, Skid, Top Crate, Bag, High SCCR
K – CFSP, High SCCR
L – CFSP
M – CFSP, Coil Trim Panels, High SCCR
N – CFSP, Skid, Coil Trim Panels, High SCCR
P – CFSP, Skid, Top Crate, Bag, Coil Trim Panels, High SCCR
R – CFSP, Coil Trim Panels, Upper and Lower Grilles, High SCCR
S – CFSP, Skid, Coil Trim Panels, Upper and Lower Grilles, High SCCR
T – CFSP, Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles, High SCCR
W – CFSP, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards, High SCCR
X – CFSP, Skid, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards, High SCCR
Y – CFSP, Skid, Top Crate, Bag, Coil Trim Panels, Upper and Lower Grilles, Upper Hail Guards, High SCCR

Controls/Communication Options

- – Navigator™ Display
0 – Navigator Display, EMM
1 – Navigator Display, Service Option
2 – Navigator Display, EMM, Service Option
3 – Touch Pilot™ Display
4 – Touch Pilot Display, EMM
5 – Touch Pilot Display, Service Option
6 – Touch Pilot Display, EMM, Service Option
7 – Navigator Display, BACnet Translator
8 – Navigator Display, BACnet Translator, EMM
9 – Navigator Display, BACnet Translator, Service Option
B – Navigator Display, BACnet Translator, EMM, Service Option
C – Touch Pilot Display, BACnet Translator
D – Touch Pilot Display, BACnet Translator, EMM
F – Touch Pilot Display, BACnet Translator, Service Option
G – Touch Pilot Display, BACnet Translator, EMM, Service Option
H – Navigator Display, LON Translator
J – Navigator Display, LON Translator, EMM
K – Navigator Display, LON Translator, Service Option
L – Navigator Display, LON Translator, EMM, Service Option
M – Touch Pilot Display, LON Translator
N – Touch Pilot Display, LON Translator, EMM
P – Touch Pilot Display, LON Translator, Service Option
Q – Touch Pilot Display, LON Translator, EMM, Service Option
R – Navigator Display, BACnet Communication
S – Navigator Display, BACnet Communication, EMM
T – Navigator Display, BACnet Communication, Service Option
V – Navigator Display, BACnet Communication, EMM, Service Option
W – Touch Pilot Display, BACnet Communication
X – Touch Pilot Display, BACnet Communication, EMM
Y – Touch Pilot Display, BACnet Communication, Service Option
Z – Touch Pilot Display, BACnet Communication, EMM, Service Option

Electrical Options

- – Single Point Power, XL, Terminal Block, No Control Transformer
0 – Single Point Power, Wye-Delta, Terminal Block, No Control Transformer
3 – Dual Point Power, XL, Terminal Block, No Control Transformer
4 – Dual Point Power, Wye-Delta, Terminal Block, No Control Transformer
7 – Single Point Power, XL, Disconnect, No Control Transformer
8 – Single Point Power, Wye-Delta, Disconnect, No Control Transformer
C – Dual Point Power, XL, Disconnect, No Control Transformer
D – Dual Point Power, Wye-Delta, Disconnect, No Control Transformer
H – Single Point Power, XL, Terminal Block, Control Transformer
J – Single Point Power, Wye-Delta, Terminal Block, Control Transformer
M – Dual Point Power, XL, Terminal Block, Control Transformer
N – Dual Point Power, Wye-Delta, Terminal Block, Control Transformer
R – Single Point Power, XL, Disconnect, Control Transformer
S – Single Point Power, Wye-Delta, Disconnect, Control Transformer
W – Dual Point Power, XL, Disconnect, Control Transformer
X – Dual Point Power, Wye-Delta, Disconnect, Control Transformer

Refrigeration Circuit Options

- – None
0 – Suction Line Insulation
1 – Isolation Valves
2 – Low Ambient Head Pressure Control
3 – Suction Line Insulation, Isolation Valves
4 – Suction Line Insulation, Low Ambient Head Pressure Control
5 – Isolation Valves, Low Ambient Head Pressure Control
6 – Suction Line Insulation, Isolation Valves, Head Pressure Control
7 – Minimum Load Control
8 – Suction Line Insulation, Minimum Load Control
9 – Isolation Valves, Minimum Load Control
B – Low Ambient Head Pressure Control Operation, Minimum Load Control
C – Suction Line Insulation, Isolation Valves, Minimum Load Control
D – Suction Line Insulation, Head Pressure Control, Minimum Load Control
F – Isolation Valves, Head Pressure Control, Minimum Load Control
G – Suction Line Insulation, Isolation Valves, Head Pressure Control, Minimum Load Control

LEGEND

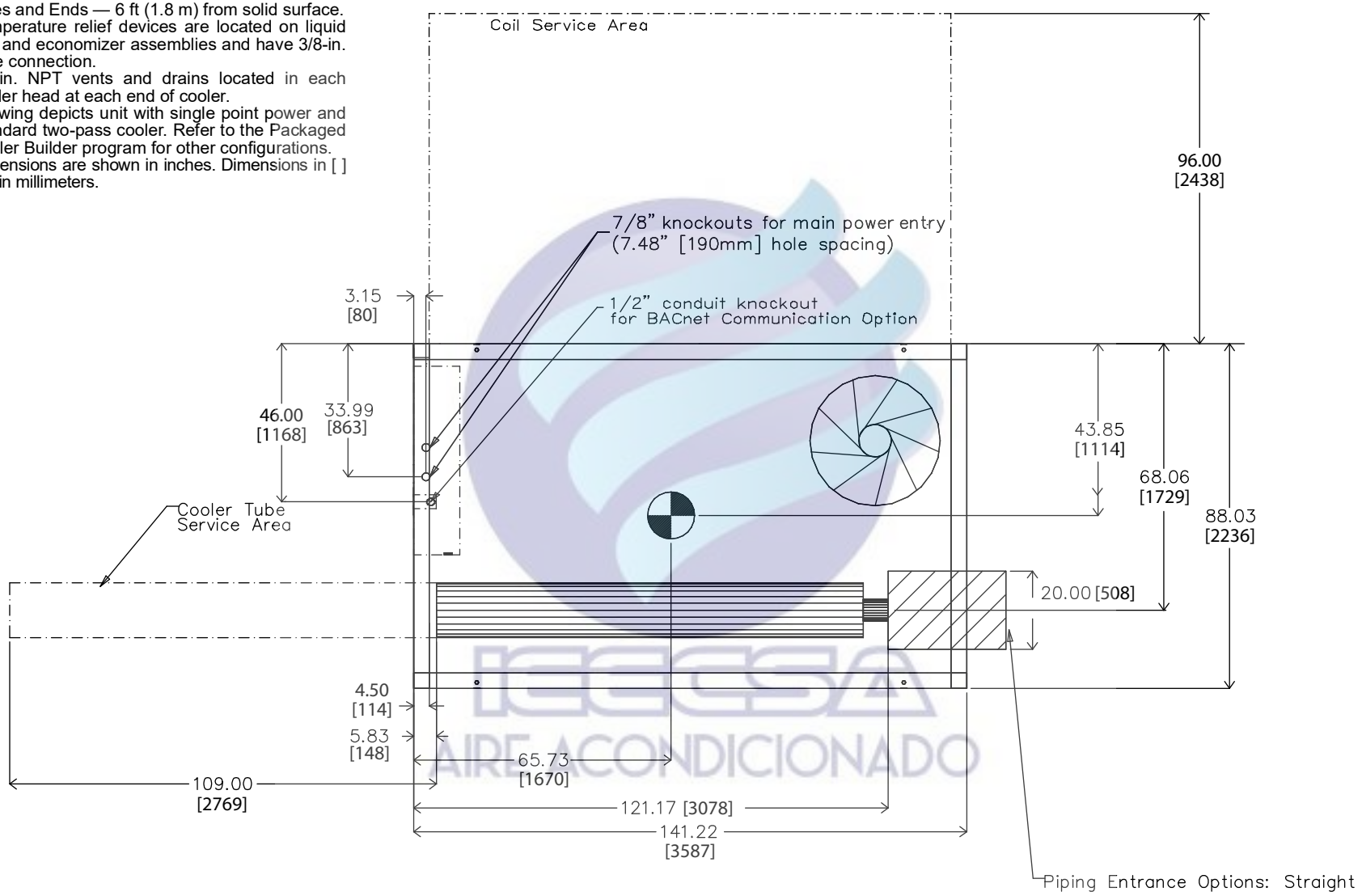
CFSP — Face Shipping Protection
EMM — Energy Management Module
LON — Local Operating Network
SCCR — Short Circuit Current Rating
XL — Across-the-Line Starter

* xx0, xx1, xx5, and xx6 size units contain flooded style coolers. Unit size 501 ships in two pieces: 501A (unit nameplate 50A) and 501B (unit nameplate 50B)
xx2 and xx7 size units contain direct expansion (DX) style coolers.
† Both flooded and DX cooler.

Fig. 1 — AquaForce® Chiller Model Number Designation

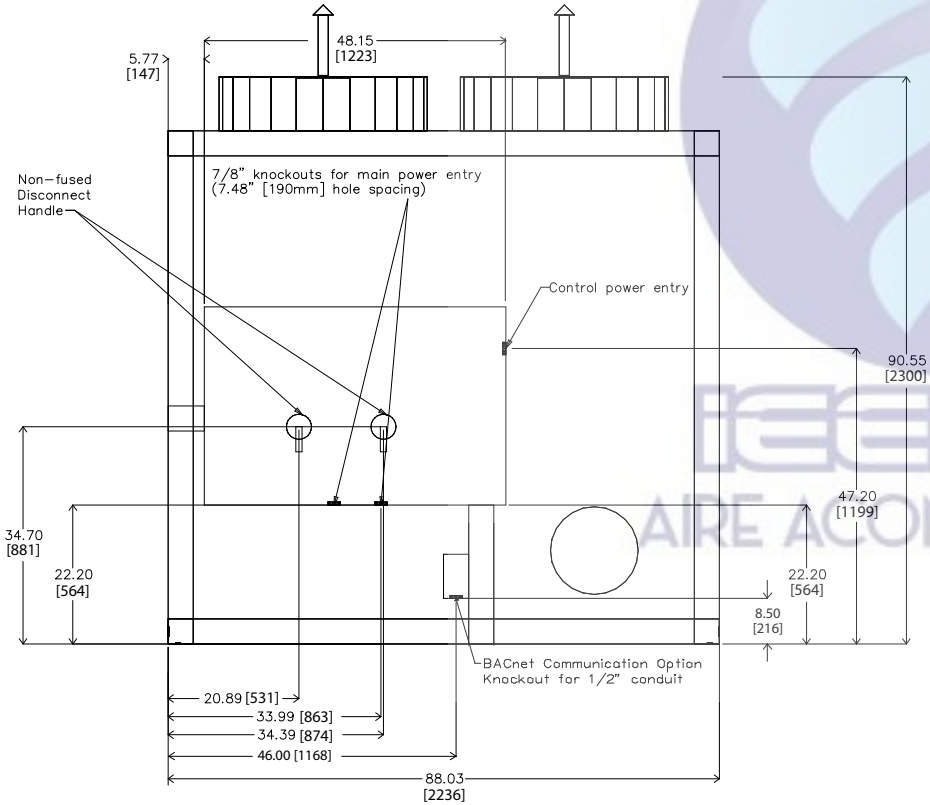
NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single point power and standard two-pass cooler. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

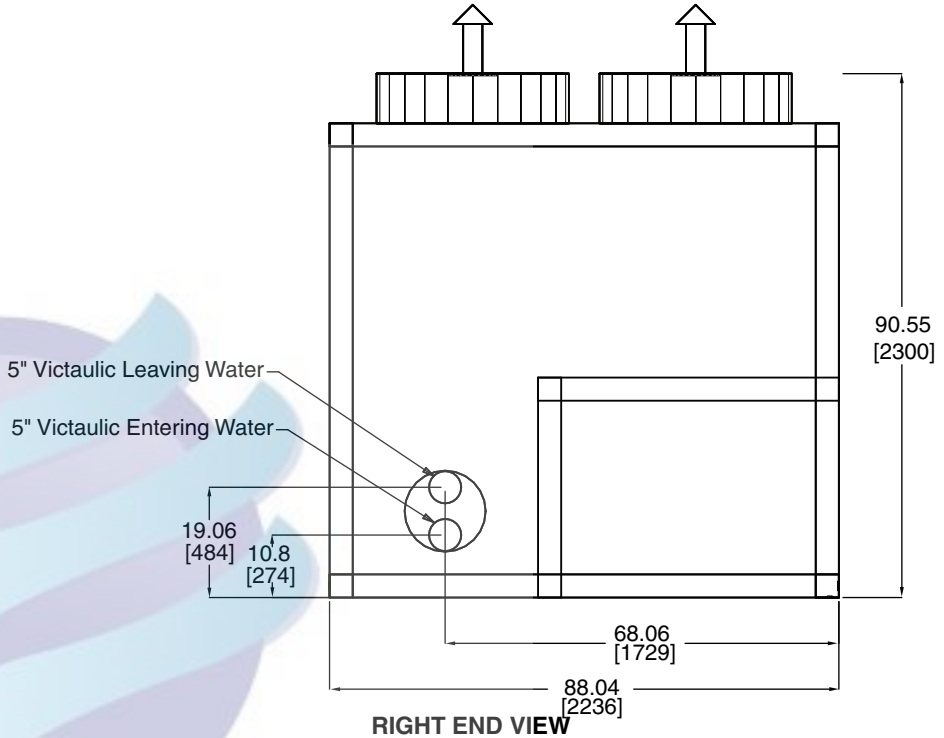


TOP VIEW

Fig. 2 — 30XA080 Air-Cooled Liquid Chiller Dimensions (See Note 4)



LEFT END VIEW



RIGHT END VIEW

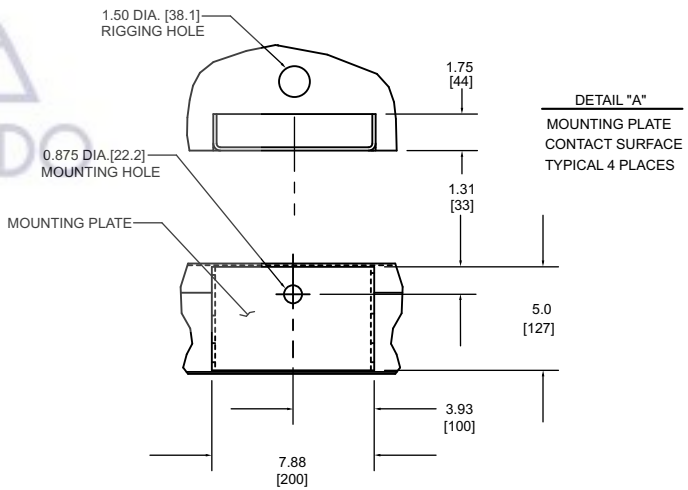
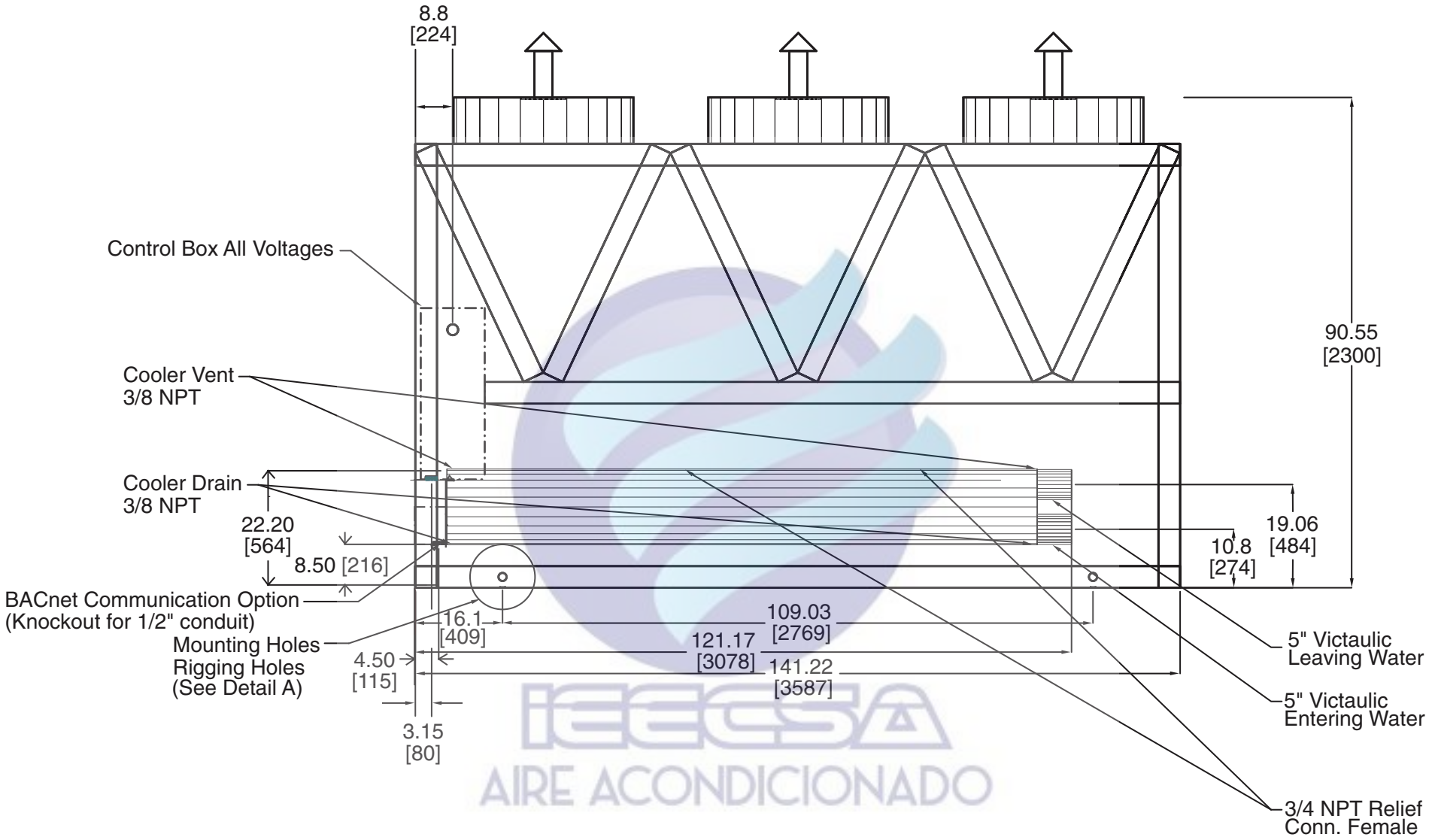


Fig. 2 — 30XA080 Air-Cooled Liquid Chiller Dimensions (cont)



FRONT VIEW

Fig. 2 — 30XA080 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface
   Airflow Side — 8 ft (2.4 m) required for coil service area.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connector).
4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CGx	CGy
082	68.5 [1739.9]	35.3 [896.6]

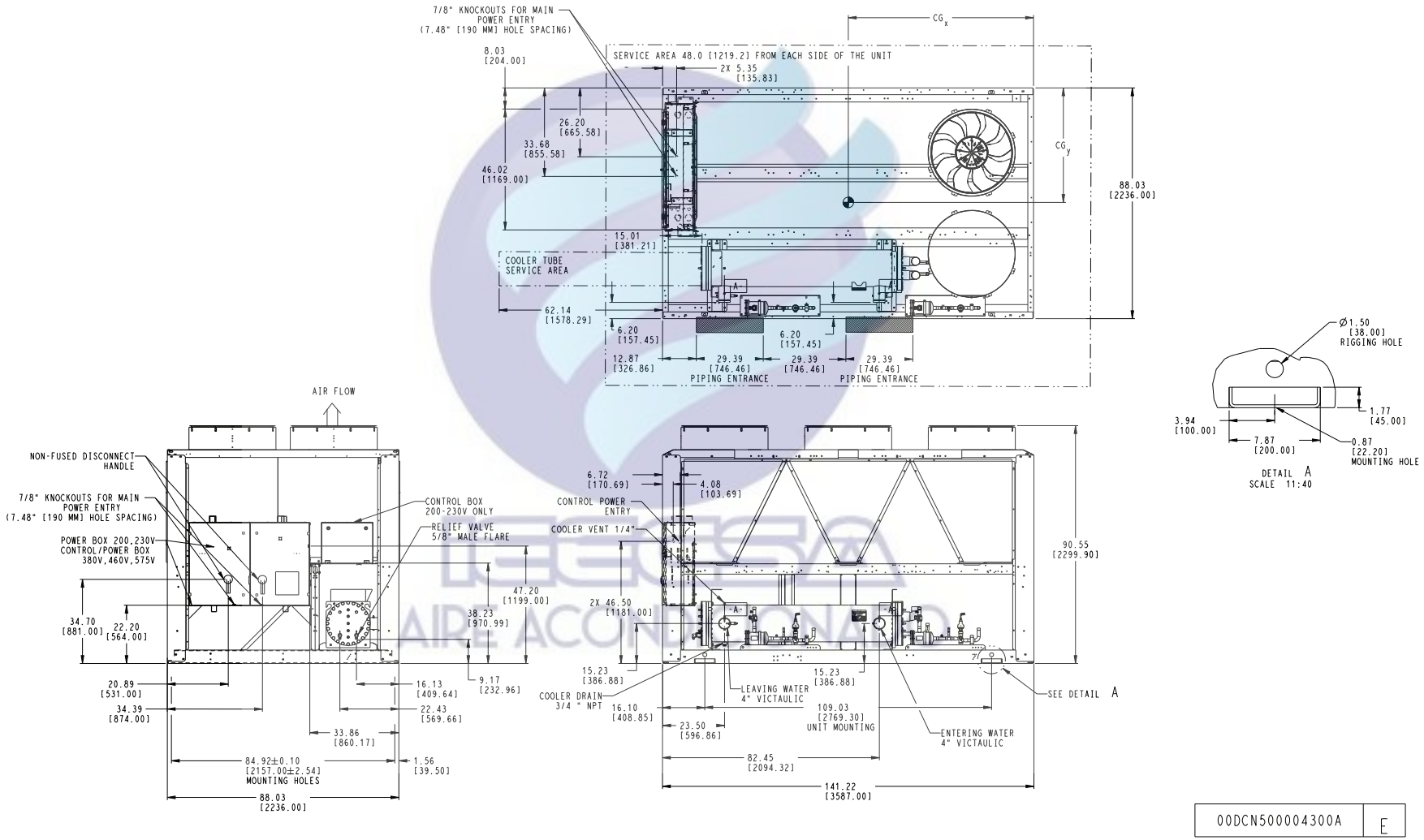


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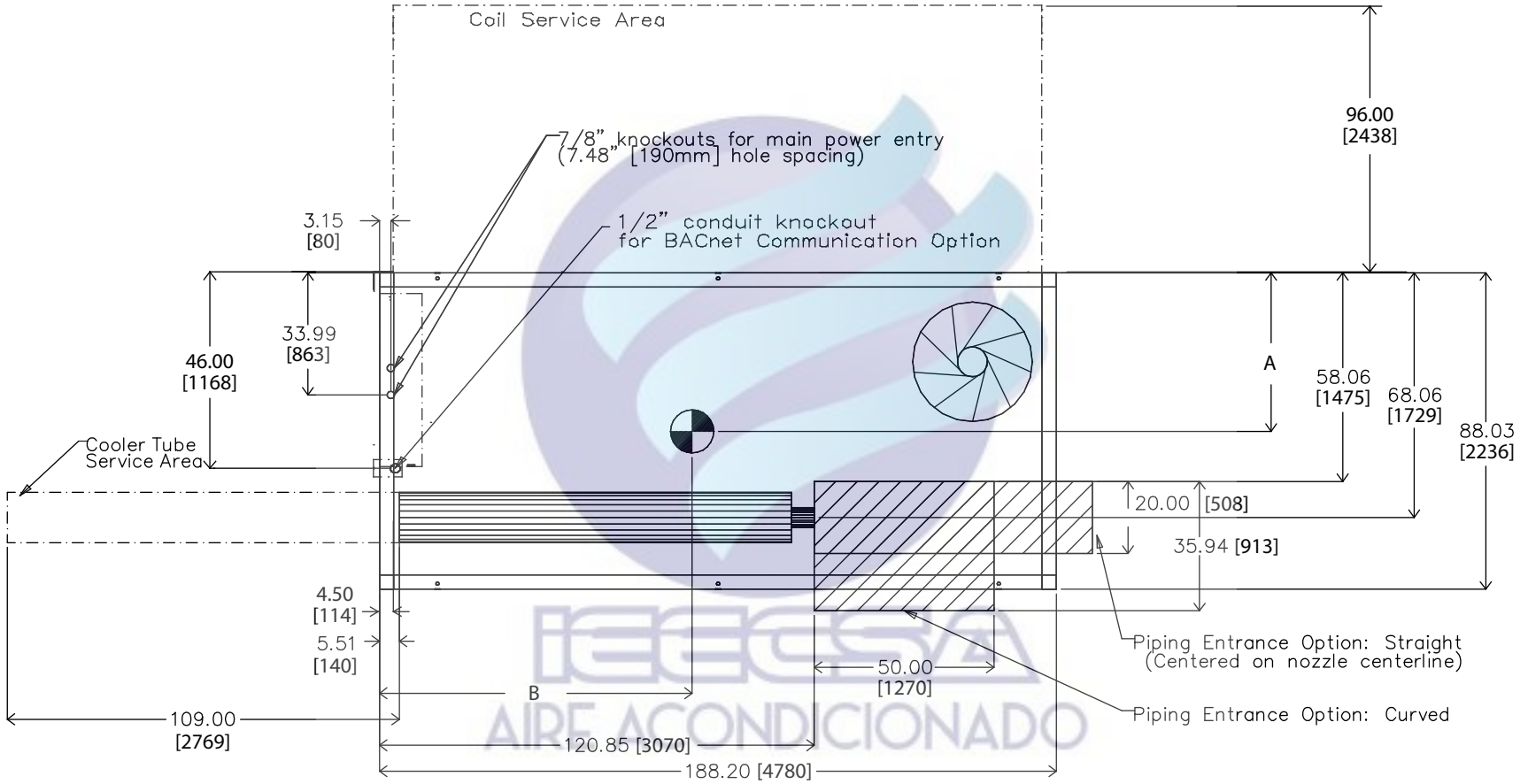
Fig. 3 — 30XA082 Air-Cooled Liquid Chiller Dimensions

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single-point power and standard two-pass cooler. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
090	44.11 [1120]	86.93 [2208]
100	44.11 [1120]	87.22 [2215]
110	44.11 [1120]	87.62 [2226]
120	44.11 [1120]	87.12 [2213]



TOP VIEW

Fig. 4 — 30XA090, 100, 110, 120 Air-Cooled Liquid Chiller Dimensions without Pump (See Note 4)

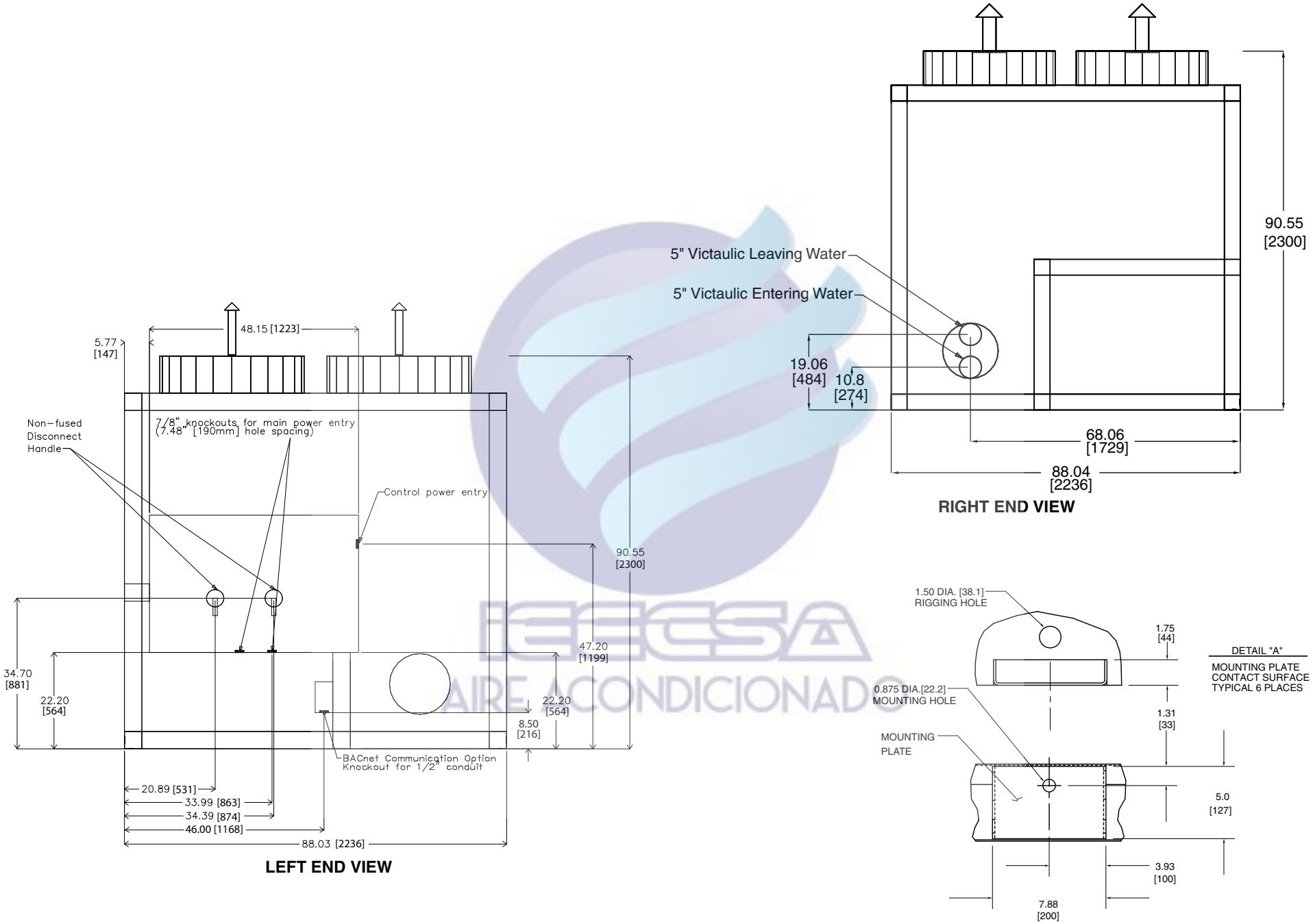
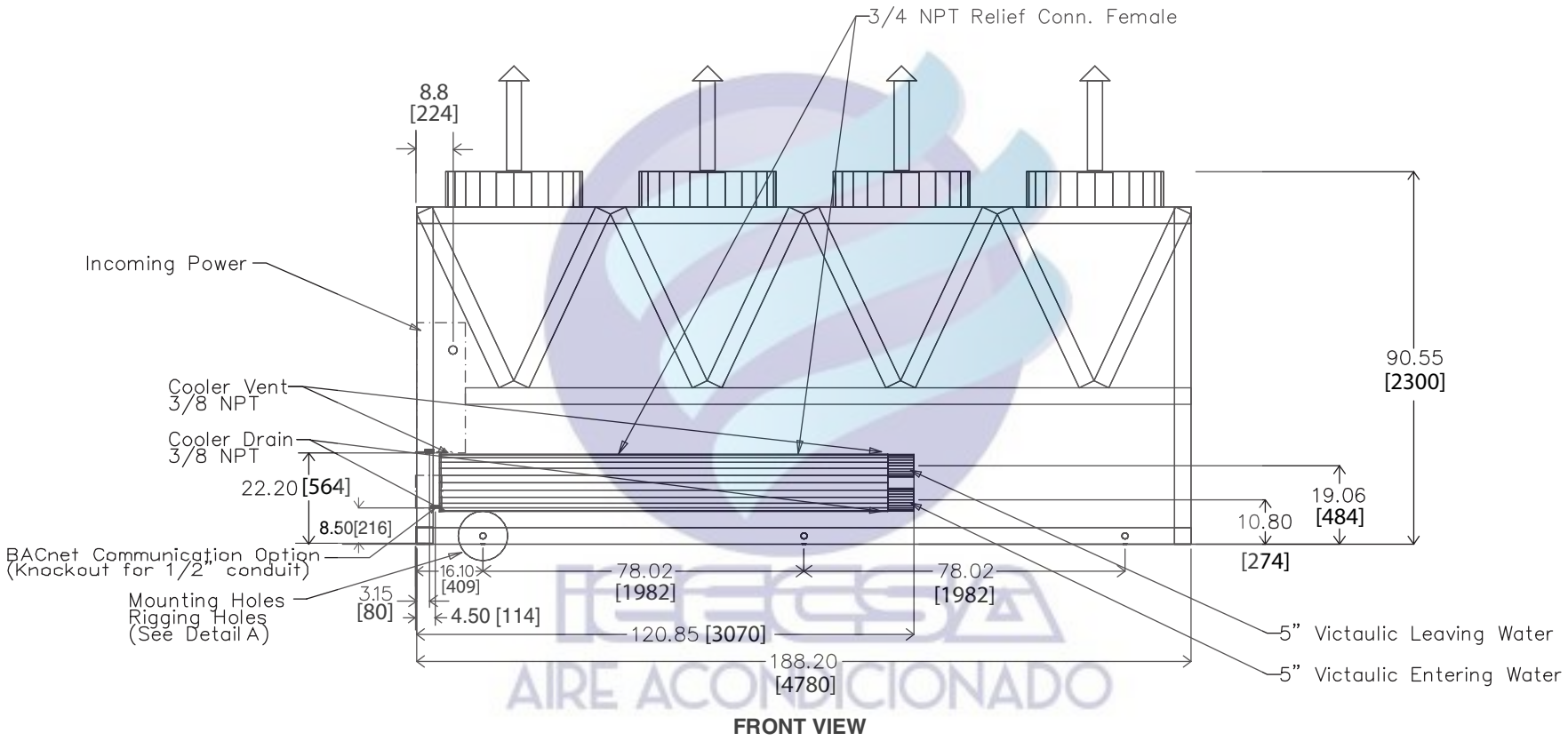


Fig. 4 — 30XA090, 100, 110, 120 Air-Cooled Liquid Chiller Dimensions without Pump (cont)



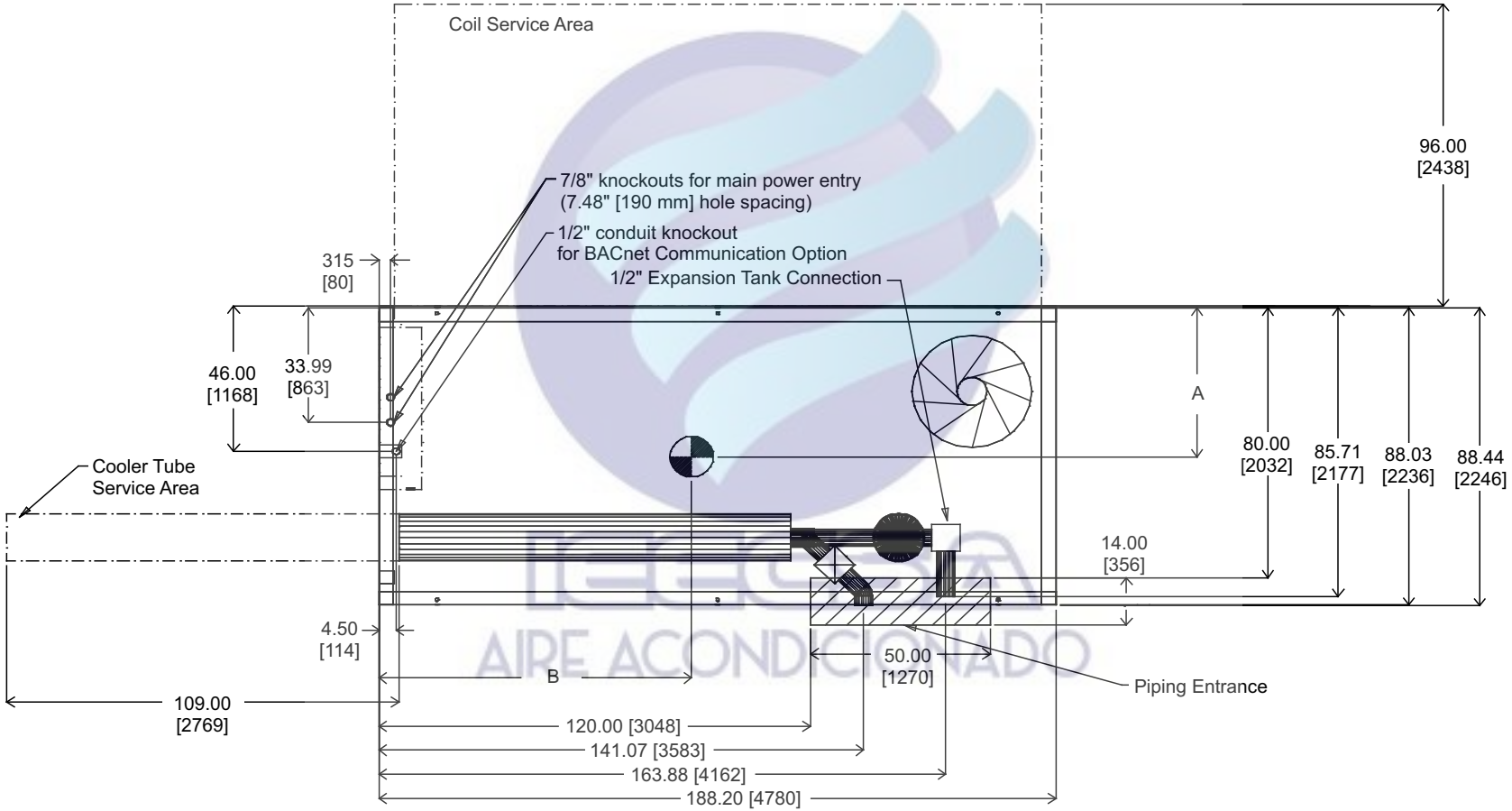
FRONT VIEW

Fig. 4 — 30XA090, 100, 110, 120 Air-Cooled Liquid Chiller Dimensions without Pump (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single-point power and standard two-pass cooler. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

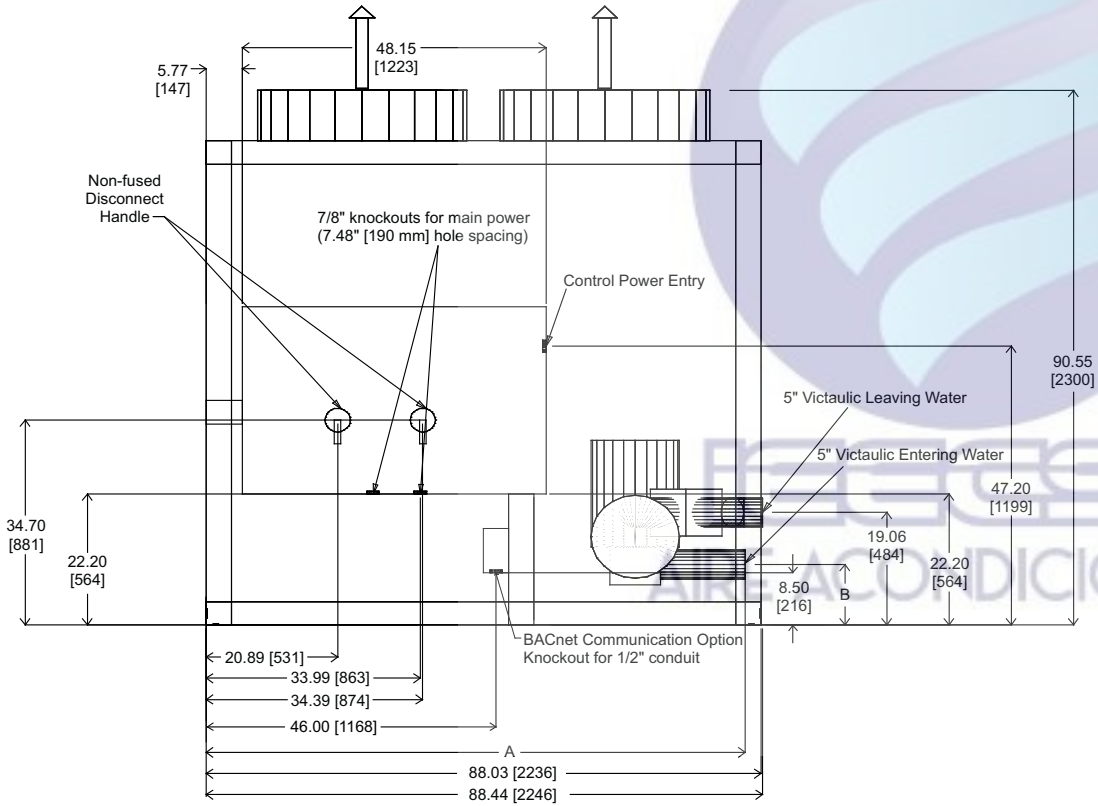
30XA UNIT	A	B
090	44.11 [1120]	86.93 [2208]
100	44.11 [1120]	87.22 [2215]
110	44.11 [1120]	87.62 [2226]
120	44.11 [1120]	87.12 [2213]



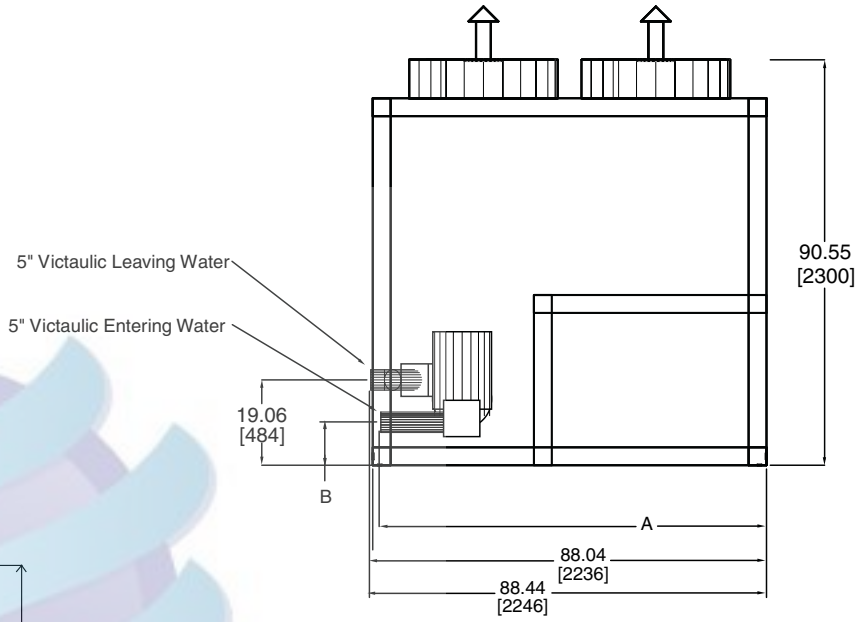
TOP VIEW

Fig. 5 — 30XA090, 100, 110, 120 Air-Cooled Liquid Chiller Dimensions with Single Pump (See Note 4)

DIMENSION	A	B
SINGLE PUMP	85.71 [2177]	10.27 [261]
DUAL PUMP	78.35 [1990]	10.79 [274]



LEFT END VIEW



RIGHT END VIEW

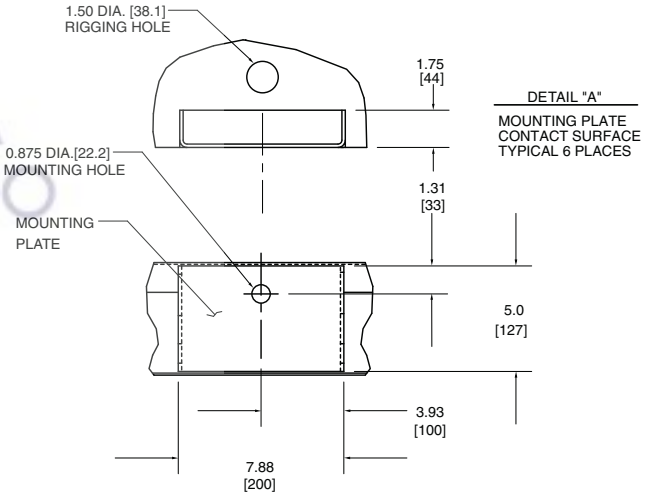
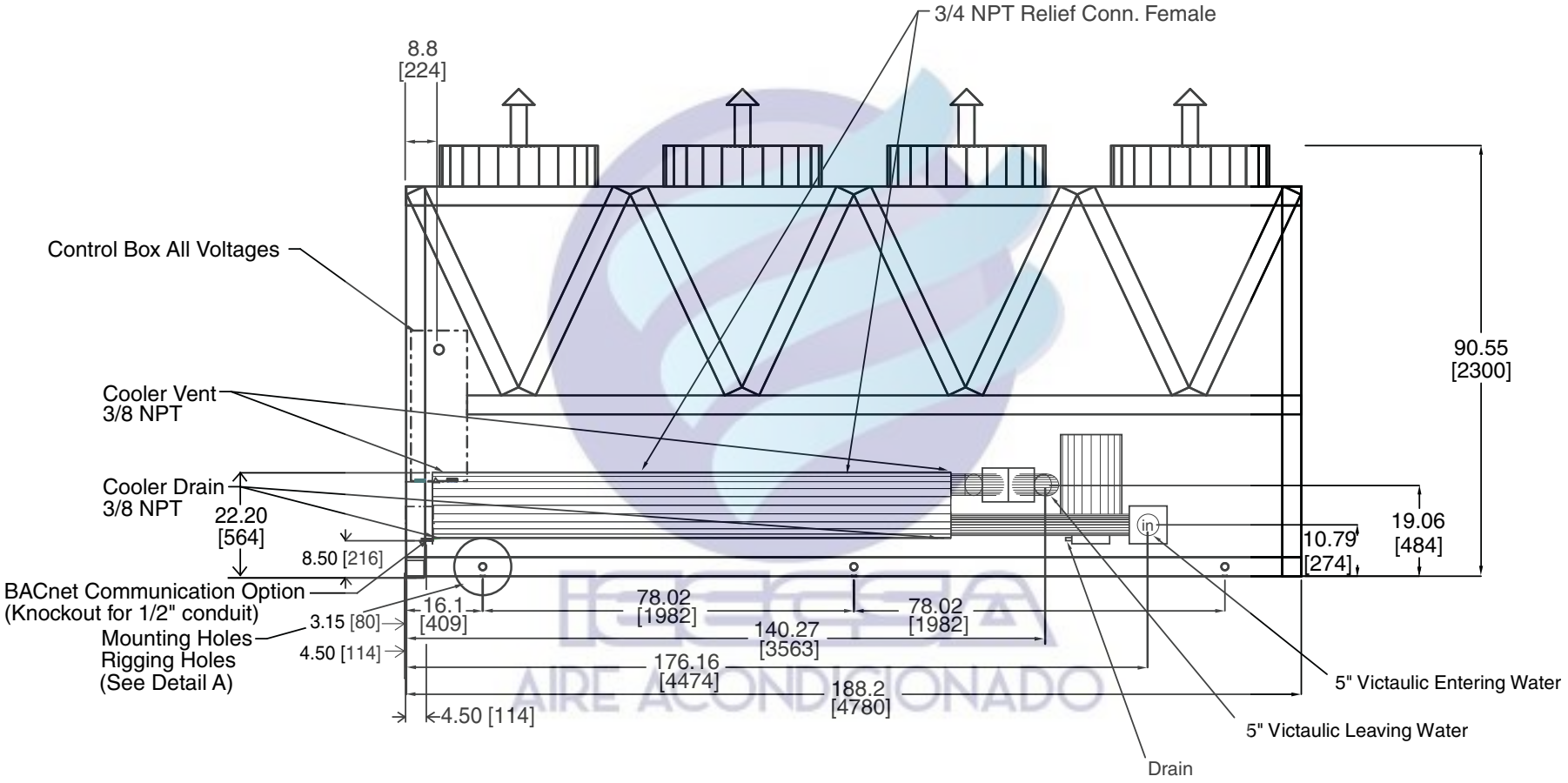


Fig. 5 — 30XA090, 100, 110, 120 Air-Cooled Liquid Chiller Dimensions with Pump (cont)



FRONT VIEW

Fig. 5 — 30XA090, 100, 110, 120 Air-Cooled Liquid Chiller Dimensions with Dual Pump (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface
   Airflow Side — 8 ft (2.4 m) required for coil service area.
2. All pumps have drains located at the bottom of volute for draining.
3. Temperature relief devices are located on liquid lines and economizer assemblies and have 3/8-in. flare connection.
4. No pump package leaving water connection is same size and has same Y and Z dimensions as entering water. Also has same PDx dimension as pump package.
5. Leaving water throttling valve and support is factory supplied with pump package, but must be field installed.
6. Dimensions for entering water without hydronic kit are as shown in the drawing.
7. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connector).
8. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CENTER OF GRAVITY		PUMP SUCTION (PS)			PUMP DISCHARGE (PD)		
	CGx	CGy	X ± 0.25	Y ± 0.25	Z ± 0.25	X ± 0.25	Y ± 0.25	Z ± 0.25
092	102.5 [2603.51]	35.5 [901.7]	32.40 [822.98]	10.79 [274.01]	11.45 [290.72]	13.32 [338.33]	15.23 [386.89]	7.8 [198.15]
102	102.2 [2595.91]	35.5 [901.7]	32.40 [822.98]	10.79 [274.01]	11.45 [290.72]	13.32 [338.33]	15.23 [386.89]	7.8 [198.15]

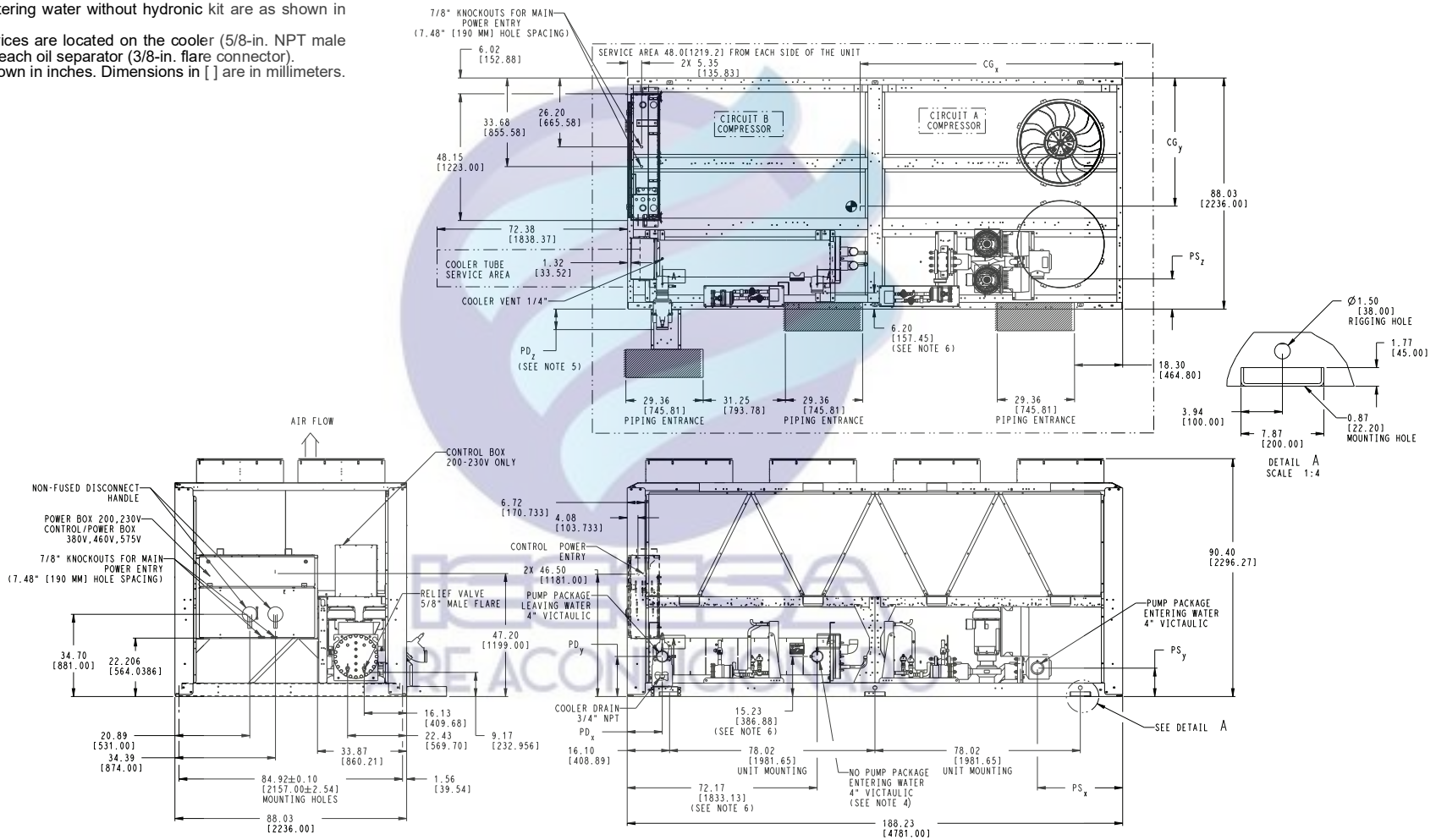


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Fig. 6 — 30XA092, 102 Air-Cooled Liquid Chiller Dimensions

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface
   Airflow Side — 8 ft (2.4 m) required for coil service area.
2. All pumps have drains located at the bottom of volute for draining.
3. Temperature relief devices are located on liquid lines and economizer assemblies and have 3/8-in. flare connection.
4. No pump package leaving water connection is same size and has same Y and Z dimensions as entering water. Also has same PDx dimension as pump package.
5. Leaving water throttling valve and support is factory supplied with pump package, but must be field installed.
6. Dimensions for entering water without hydronic kit are as shown in the drawing.
7. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connector.)
8. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CENTER OF GRAVITY		PUMP SUCTION (PS)			PUMP DISCHARGE (PD)		
	CGx	CGy	X ± 0.25	Y ± 0.25	Z ± 0.25	X ± 0.25	Y ± 0.25	Z ± 0.25
112	101.8 [2585.7]	35.5 [901.7]	11.72 [297.69]	10.79 [274.01]	10.71 [272.03]	13.29 [337.57]	15.23 [386.89]	14.27 [362.46]
122	102.2 [2595.9]	35.5 [901.7]	11.72 [297.69]	10.79 [274.01]	10.71 [272.03]	13.29 [337.57]	15.23 [386.89]	14.27 [362.46]

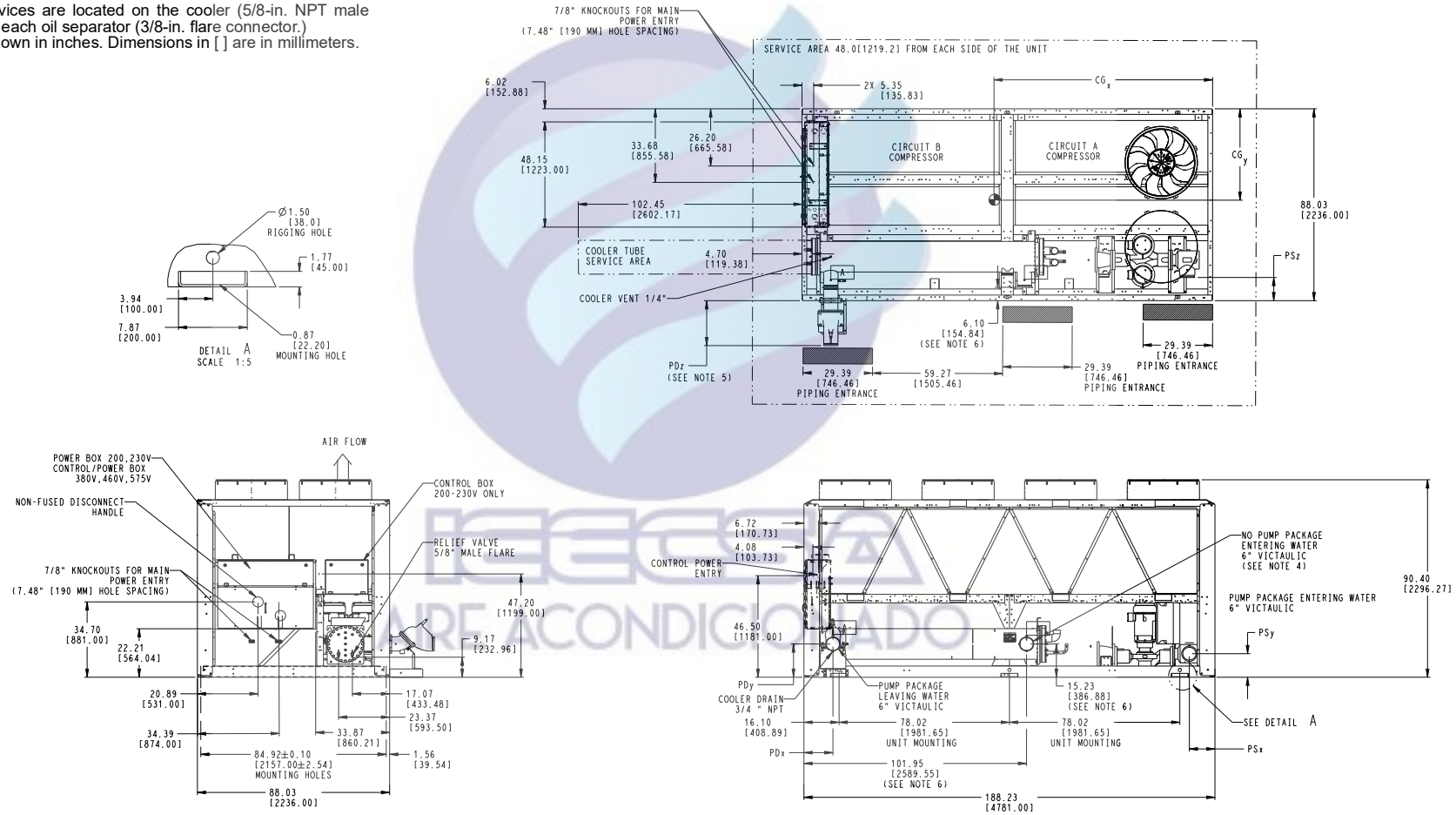

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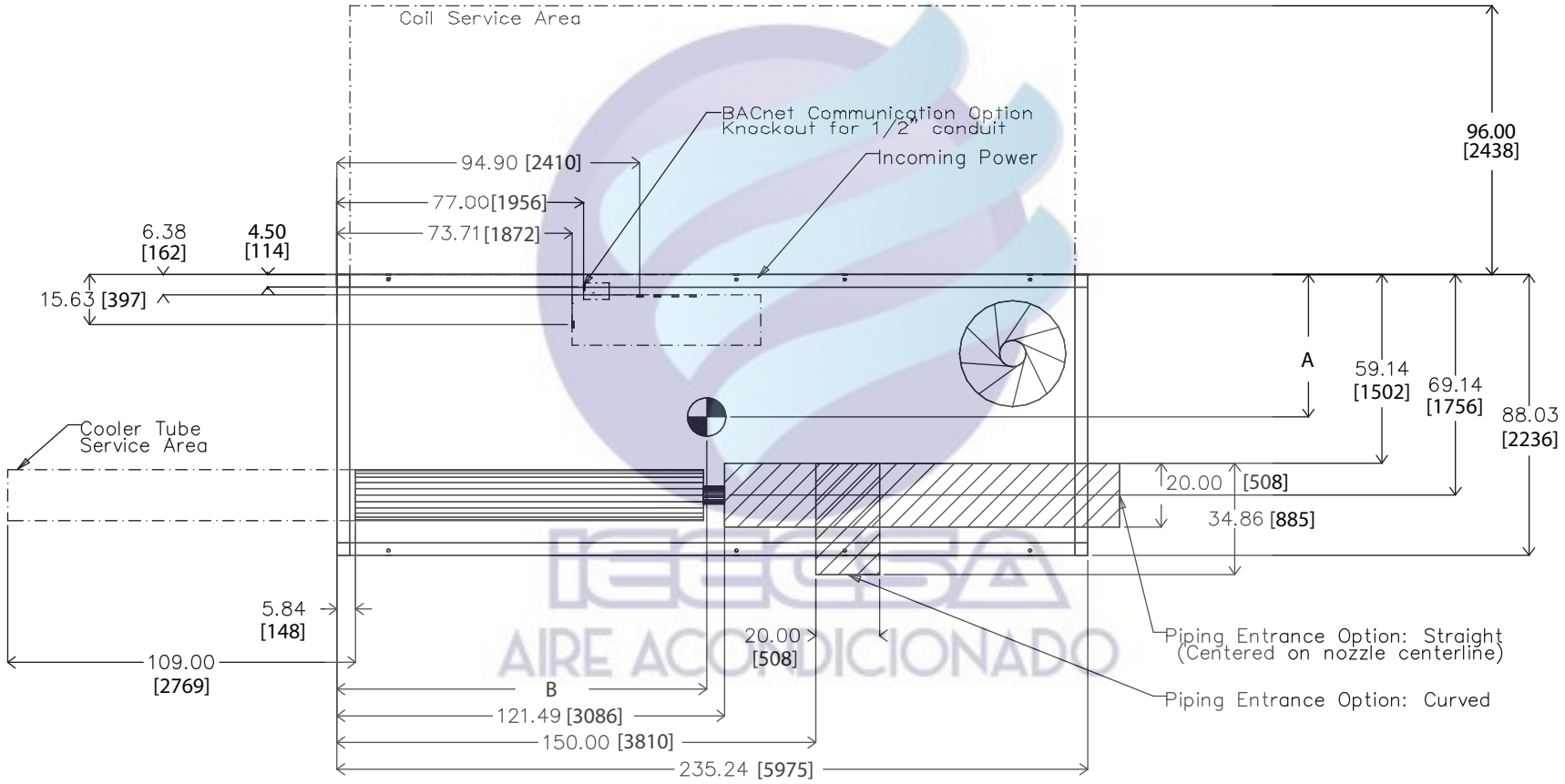
Fig. 7 — 30XA112, 122 Air-Cooled Liquid Chiller Dimensions

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single-point power, standard two-pass cooler, standard SCCR (Short Circuit Current Rating), and nominal voltage range of 380 to 575 v. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
140	44.63 [1134]	115.88 [2943]
160	44.61 [1133]	115.64 [2937]



TOP VIEW

Fig. 8 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions without Pump (See Note 4)

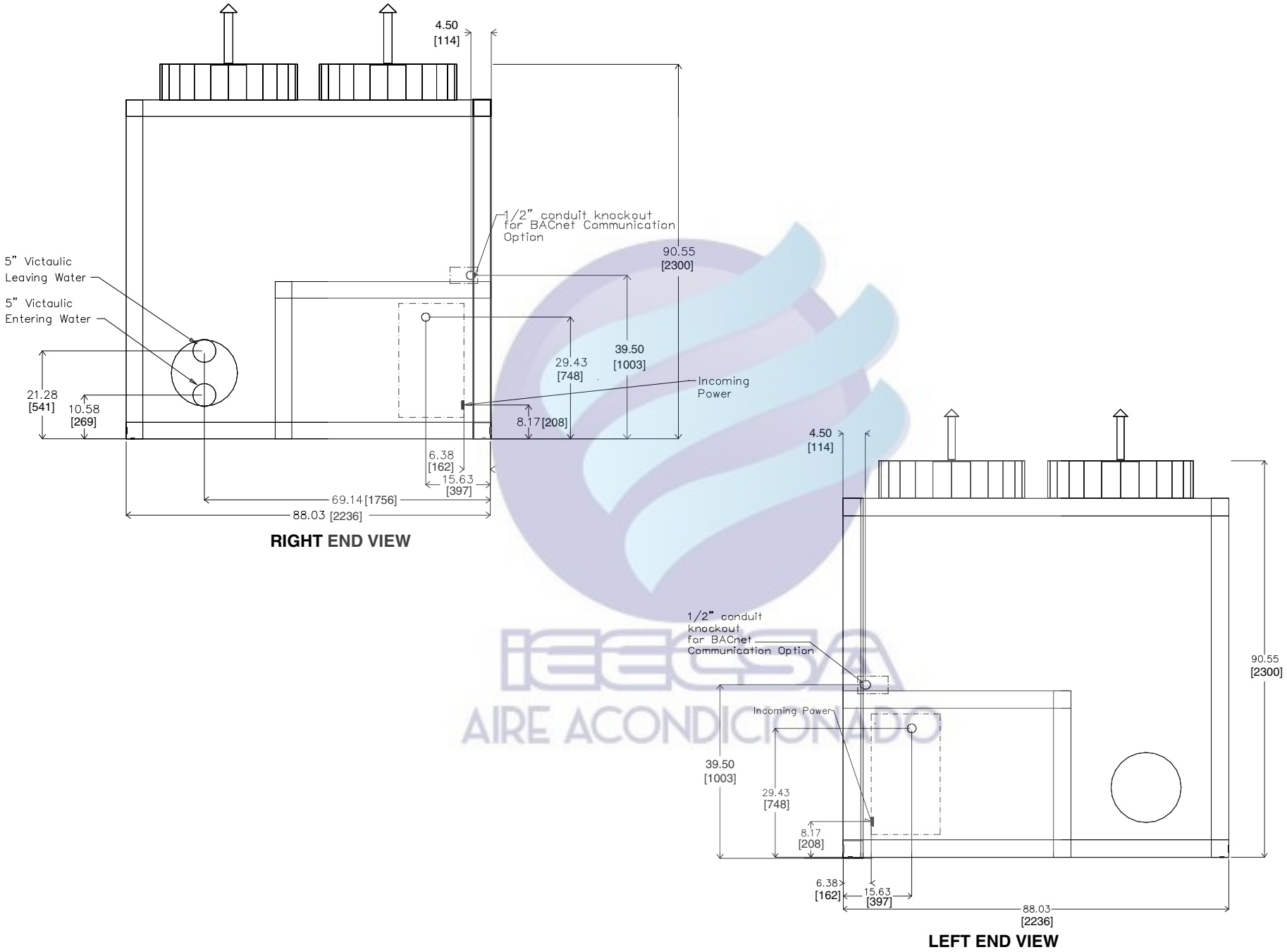


Fig. 8 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions without Pump (cont)

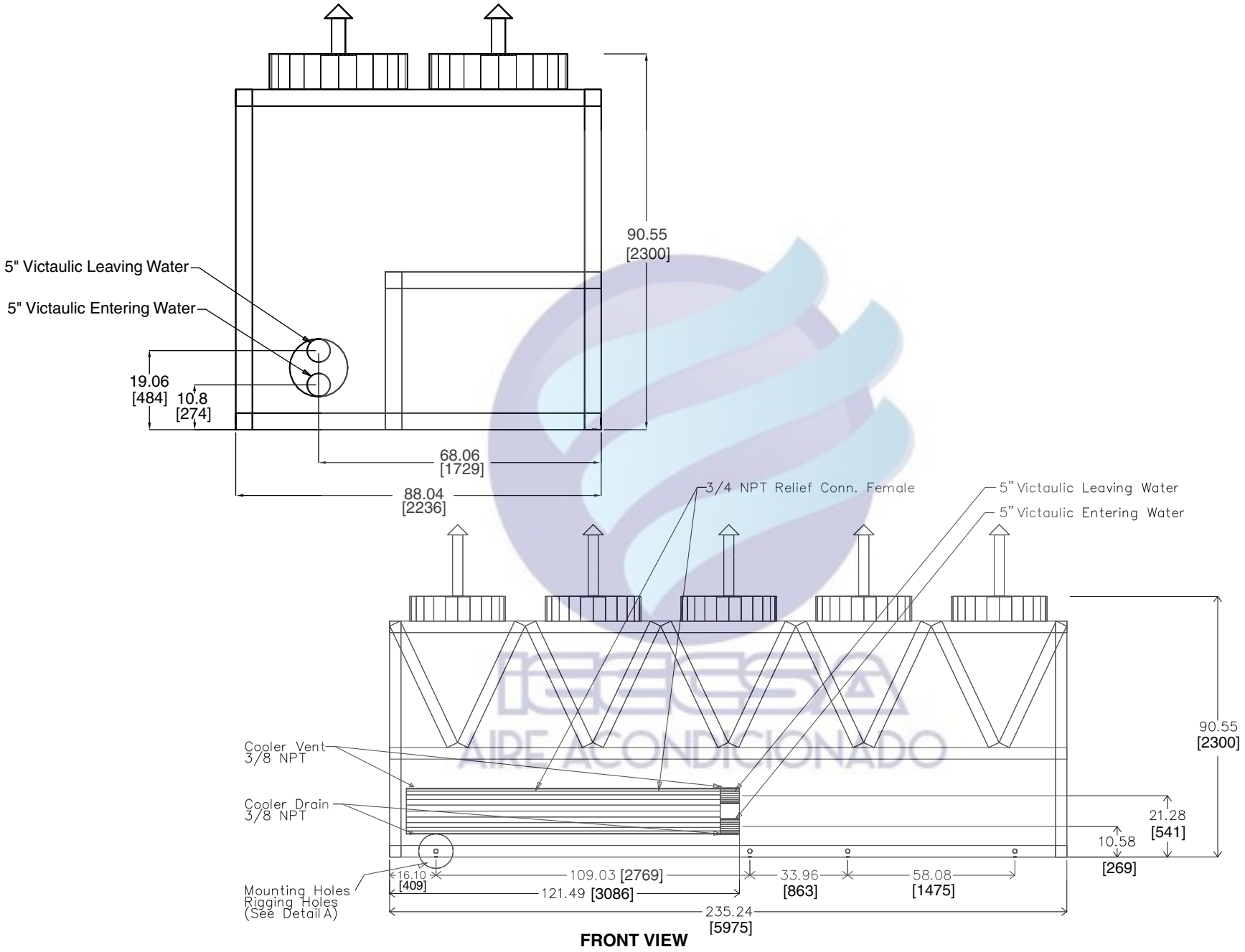
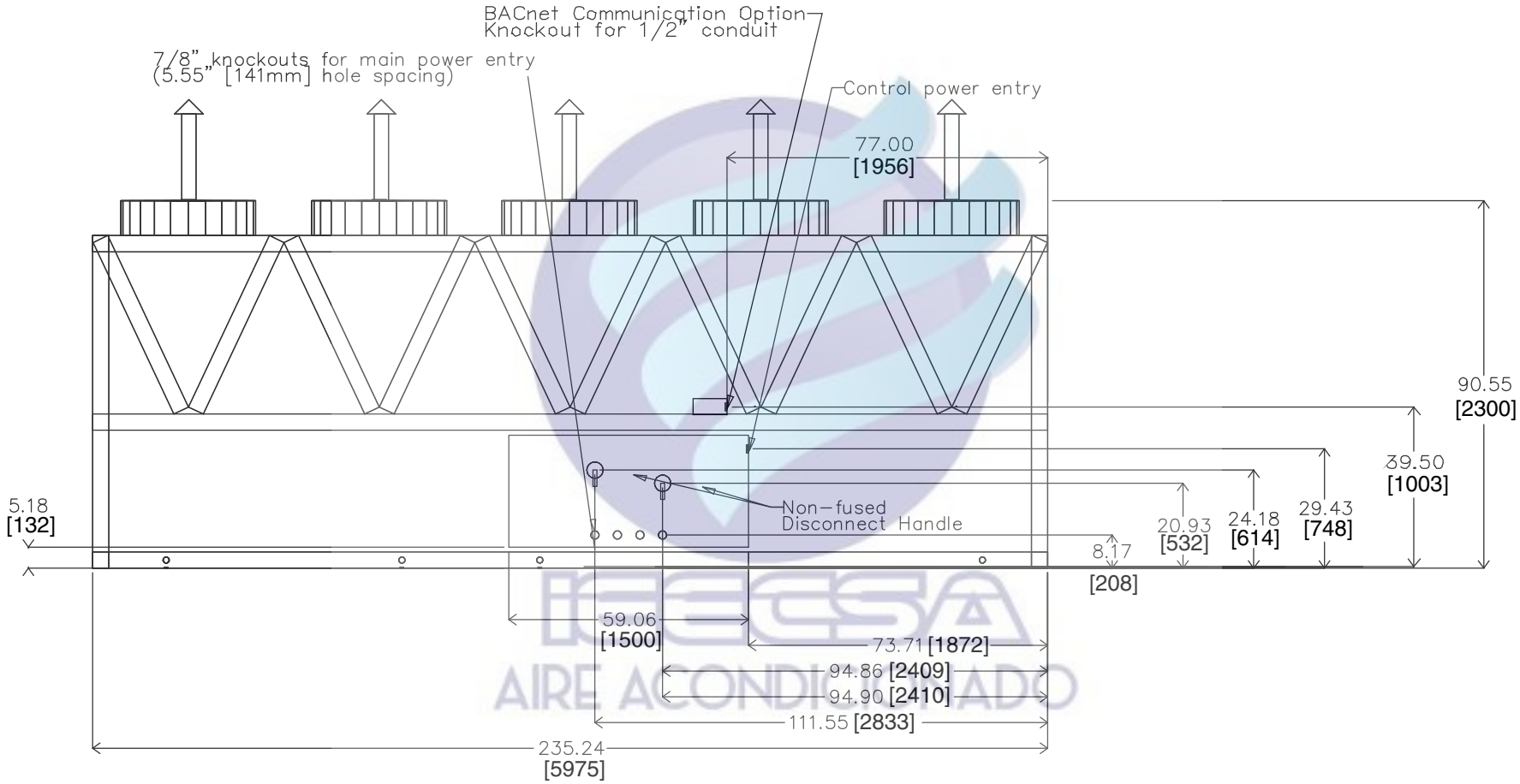


Fig. 8 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions without Pump (cont)



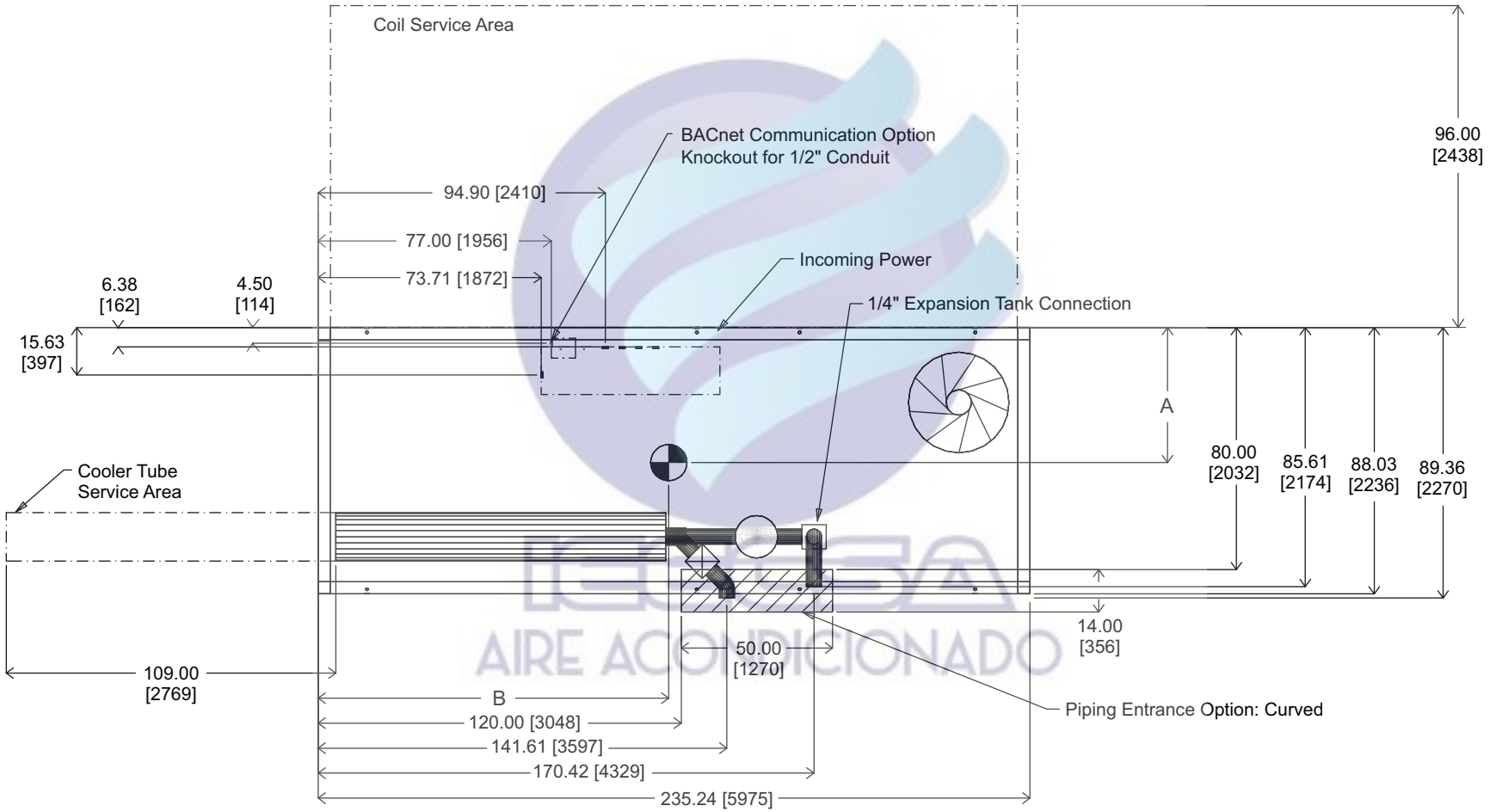
BACK VIEW

Fig. 8 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions without Pump (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single-point power, standard two-pass cooler, standard SCCR (Short Circuit Current Rating), and nominal voltage range of 380 to 575 v. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
140	44.63 [1134]	115.88 [2943]
160	44.61 [1133]	115.64 [2937]



TOP VIEW

Fig. 9 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions with Single Pump (See Note 4)

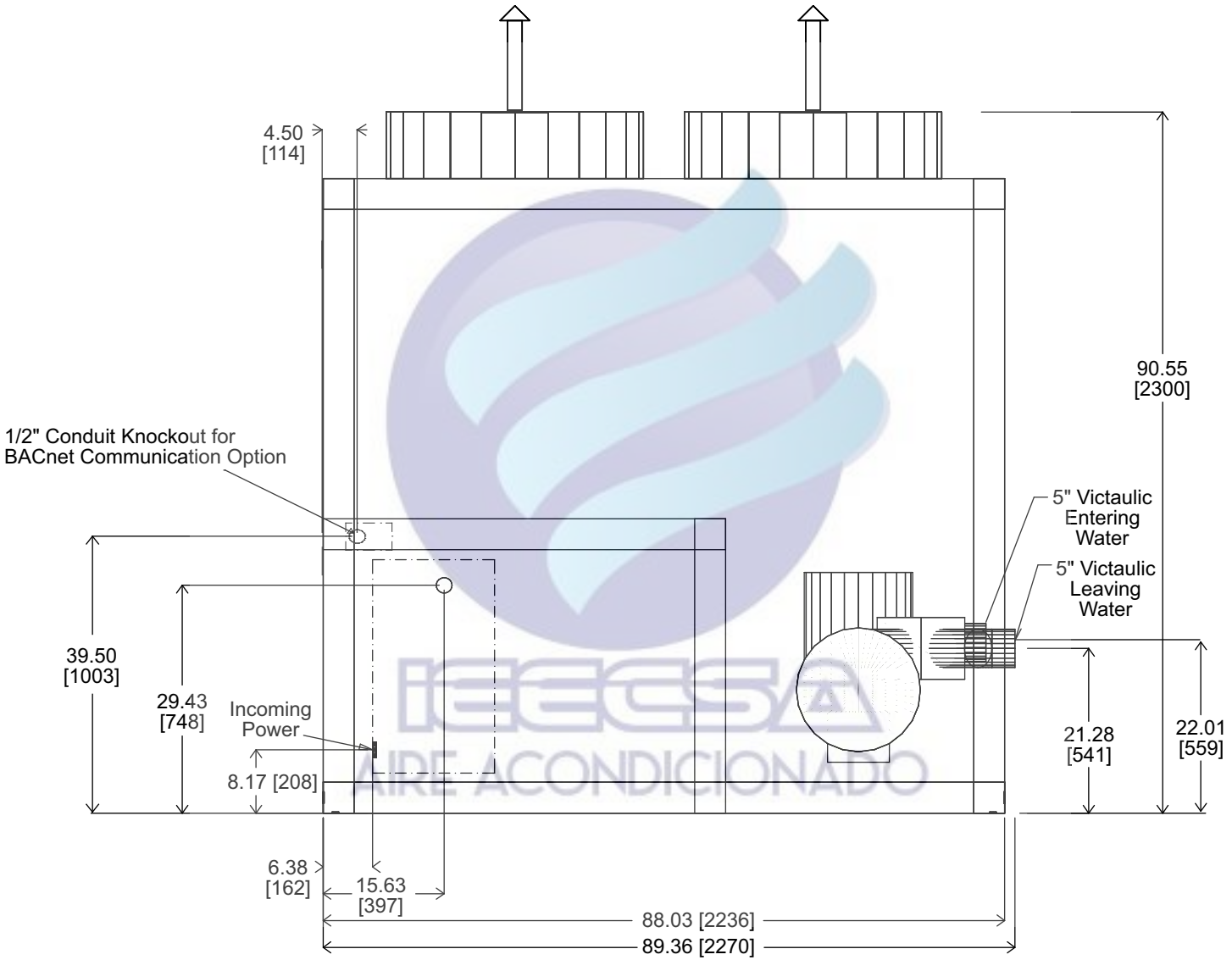
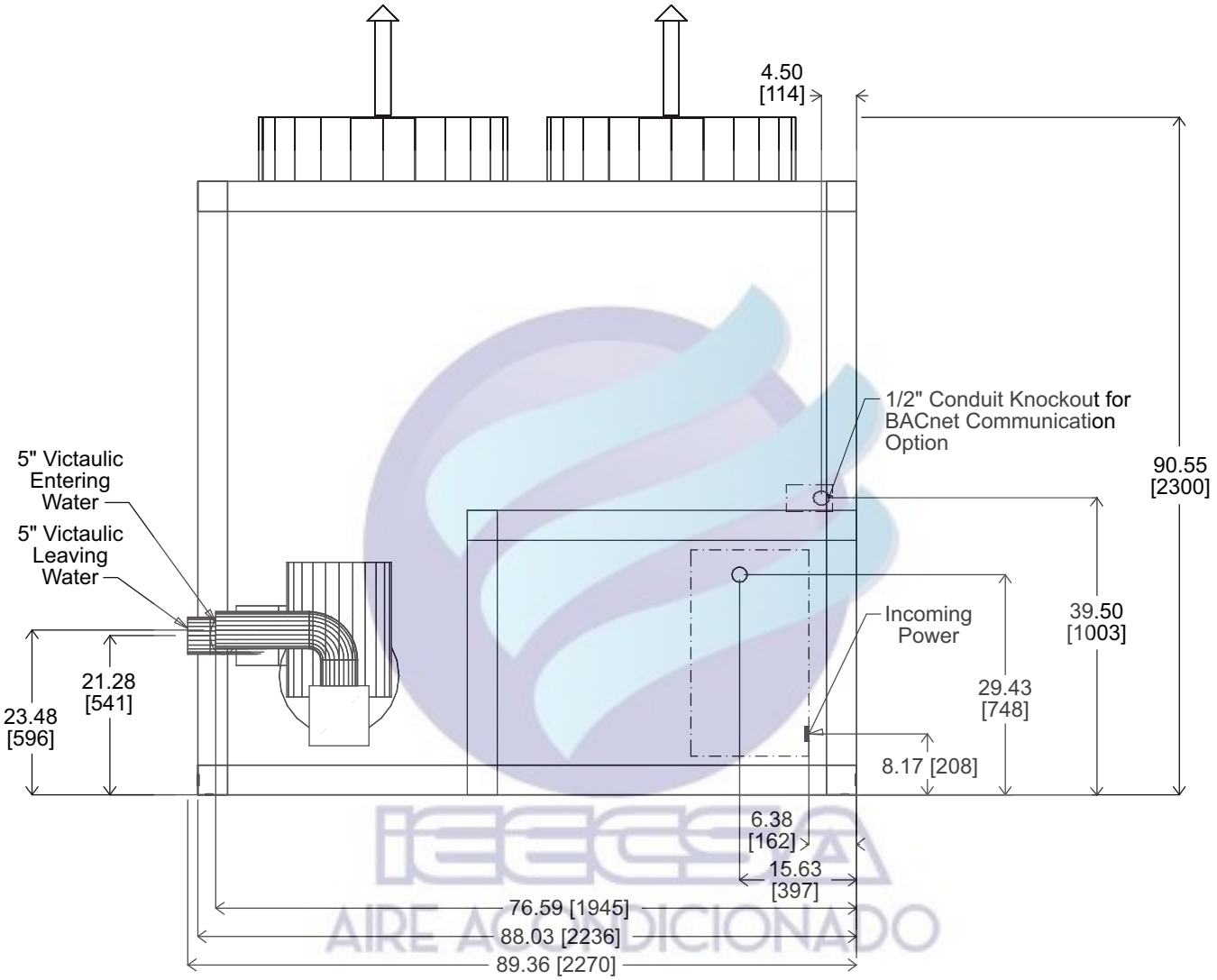
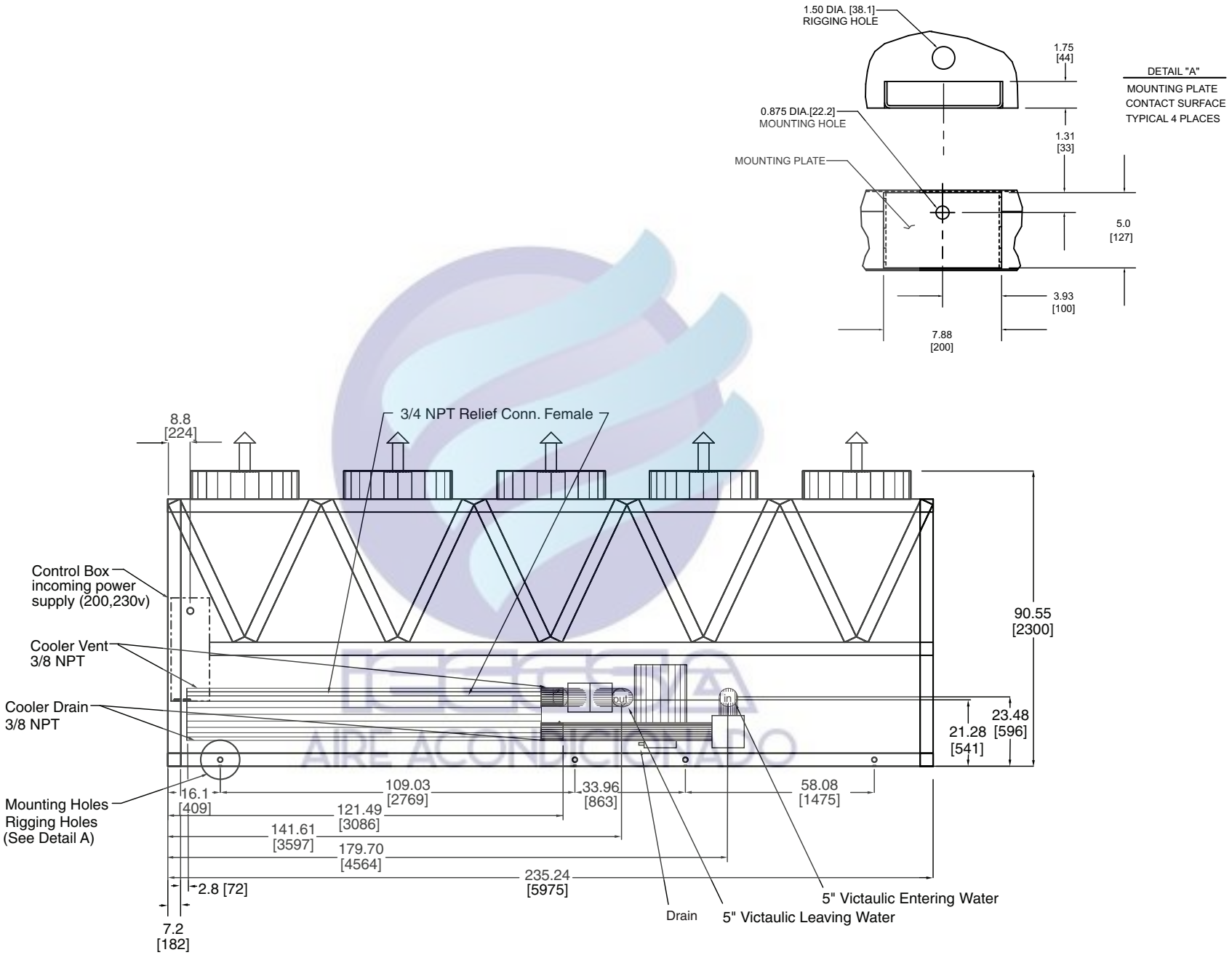


Fig. 9 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions with Single Pump (cont)



RIGHT END VIEW

Fig. 9 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions with Dual Pump (cont)



FRONT VIEW

Fig. 9 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions with Dual Pump (cont)

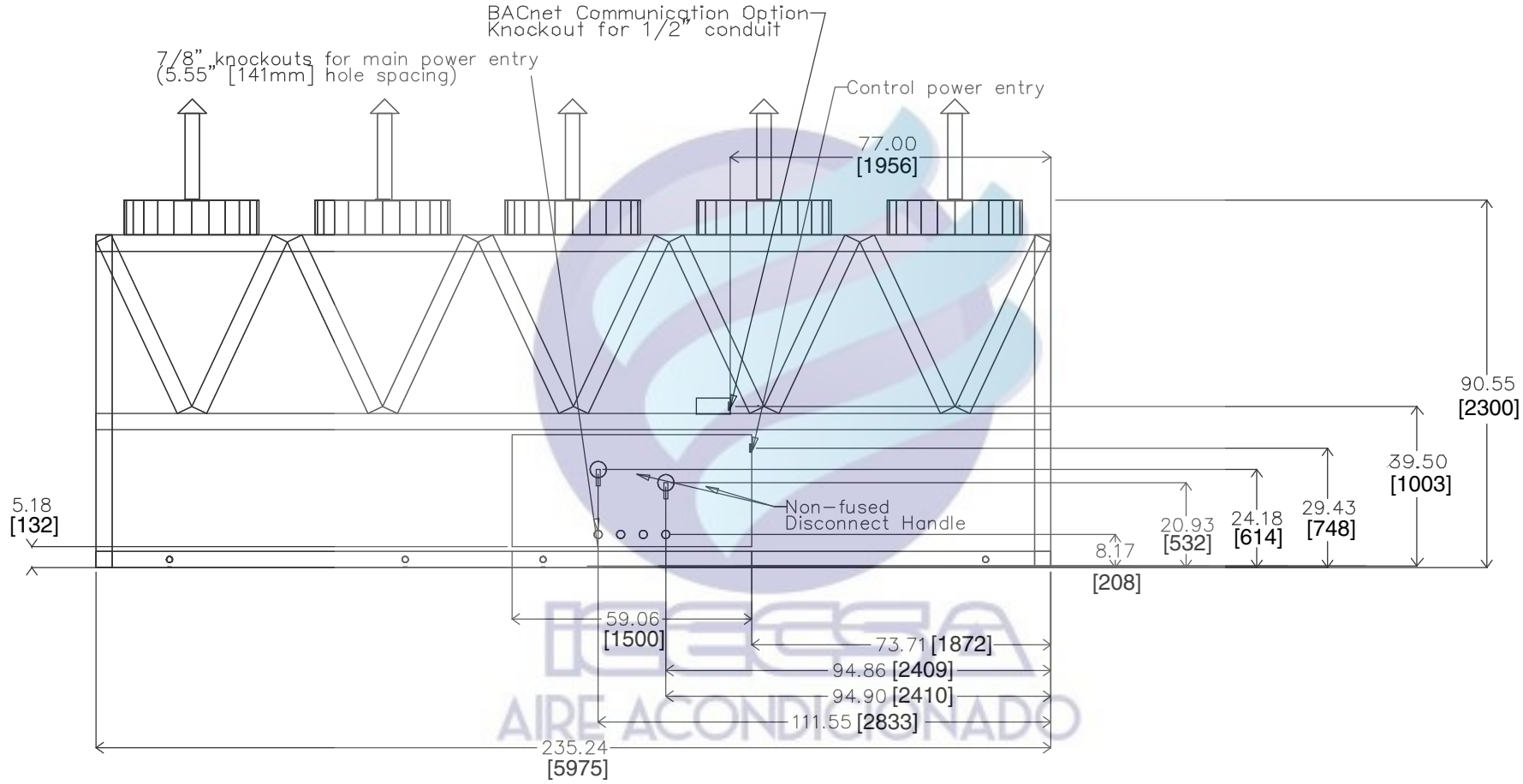


Fig. 9 — 30XA140,160 Air-Cooled Liquid Chiller Dimensions with Pump (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface
   Airflow Side — 8 ft (2.4 m) required for service area.
2. All pumps have drains located at the bottom of volute for draining.
3. Temperature relief devices are located on liquid lines, and economizer assemblies and have 3/8-in. flare connection.
4. No pump package leaving water connection is same size and has same Y and Z dimensions as entering water. Also has same PDx dimension as pump package.
5. Leaving water throttling valve and support is factory supplied with pump package, but must be field installed.
6. Dimensions for entering water without hydronic kit are as shown in the drawing.
7. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connector.)
8. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CENTER OF GRAVITY		PUMP SUCTION (PS)			PUMP DISCHARGE (PD)		
	CGx	CGy	X ± 0.25	Y ± 0.25	Z ± 0.25	X ± 0.25	Y ± 0.25	Z ± 0.25
142	102.0 [2590.8]	36.0 [914.4]	12.05 [305.97]	10.80 [274.29]	10.41 [264.41]	47.49 [1206.25]	16.15 [410.09]	15.01 [381.25]
162	102.0 [2590.8]	36.0 [914.4]	12.05 [305.97]	10.80 [274.29]	10.41 [264.41]	47.49 [1206.25]	16.15 [410.09]	15.01 [381.25]

CONTROL BOX	A	B
STD BOX	22.04 [568.96]	7.87 [199.89]
HSCCR BOX	14.04 [356.61]	6.74 [171.19]

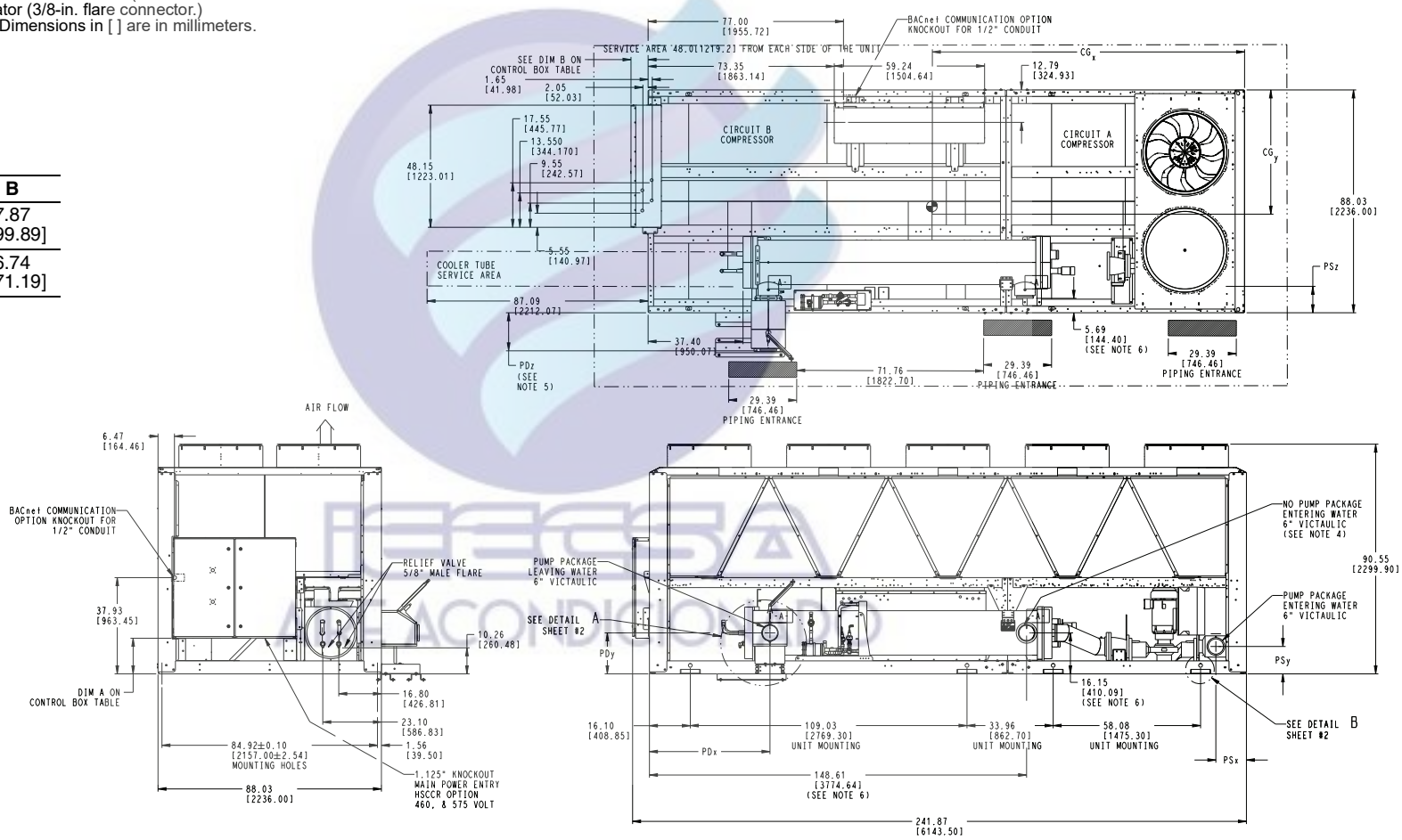


Fig. 10 — 30XA142,162 Air-Cooled Liquid Chiller Dimensions

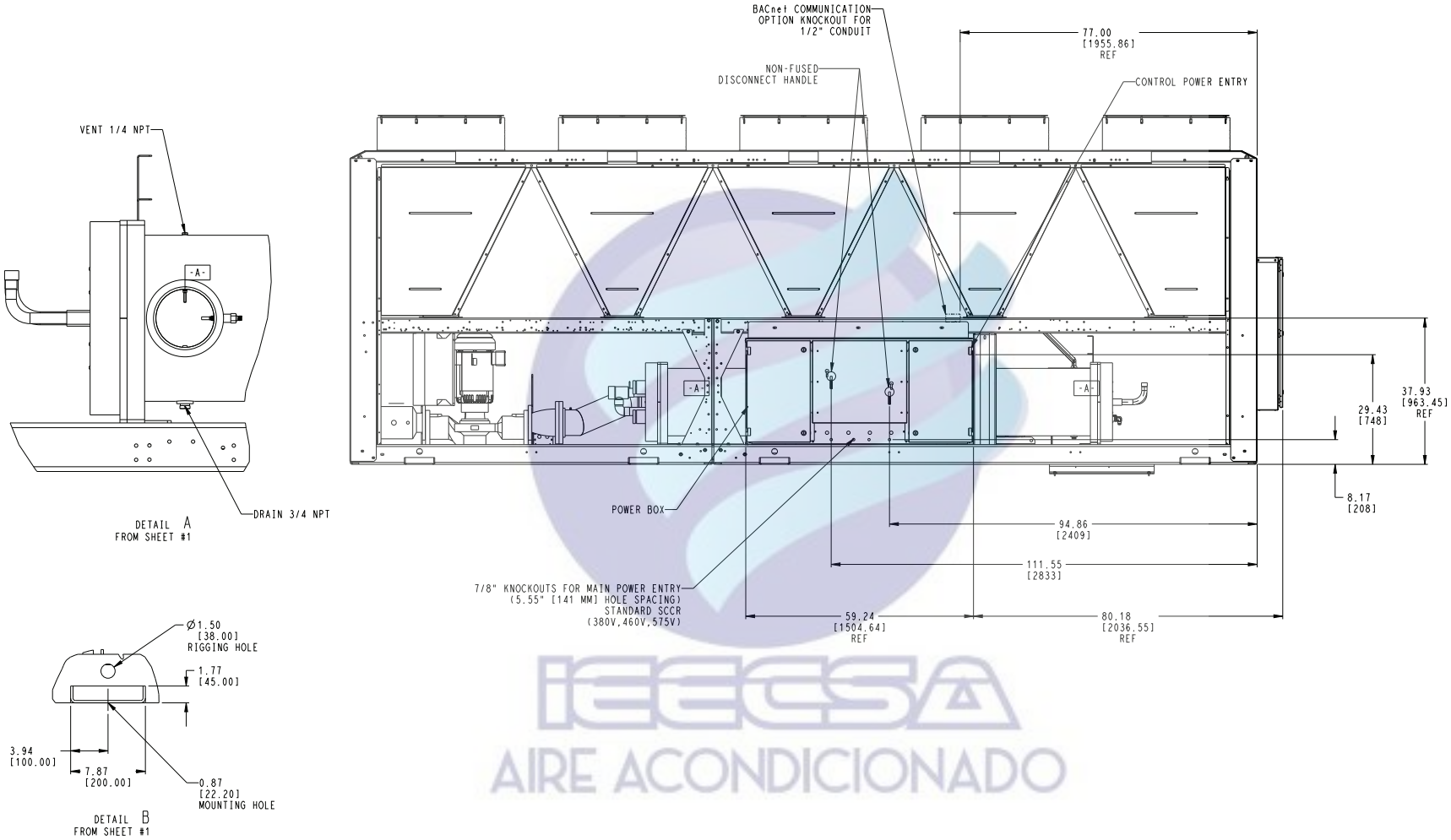
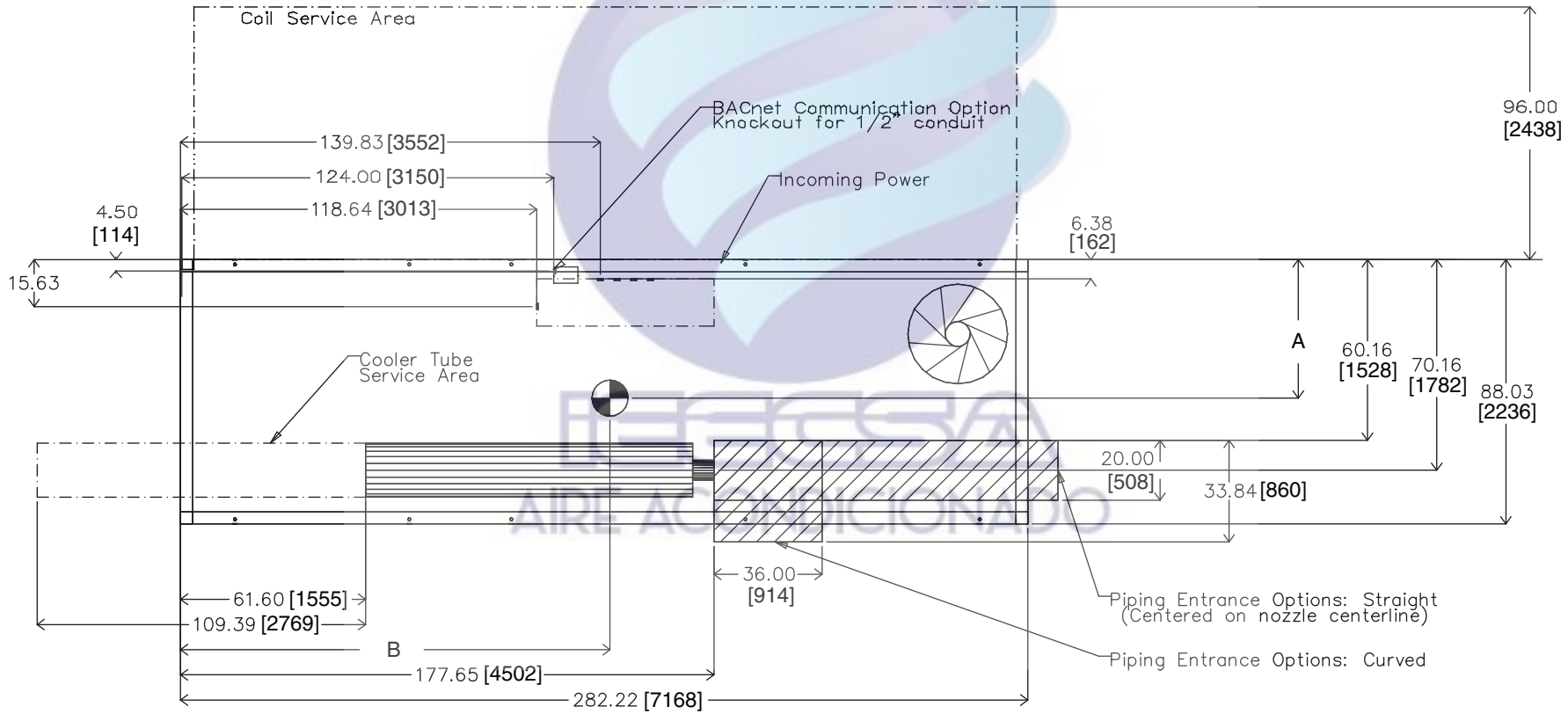


Fig. 10 — 30XA142,162 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

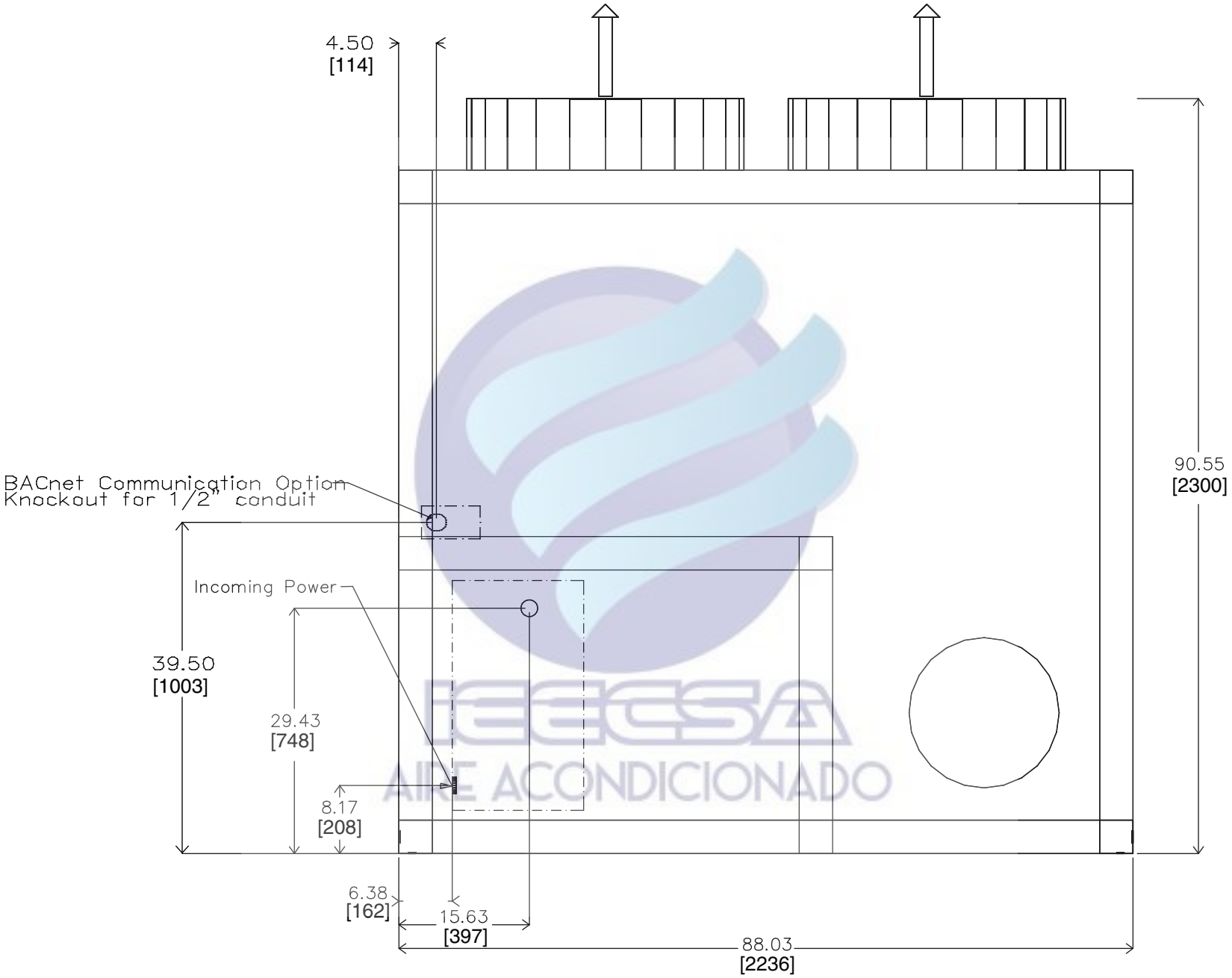
1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single point power, standard two-pass cooler, standard SCCR (Short Circuit Current Rating), and a nominal voltage range of 380 to 575 v. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
180	46.12 [1171]	143.04 [3633]
200	46.15 [1172]	142.97 [3631]



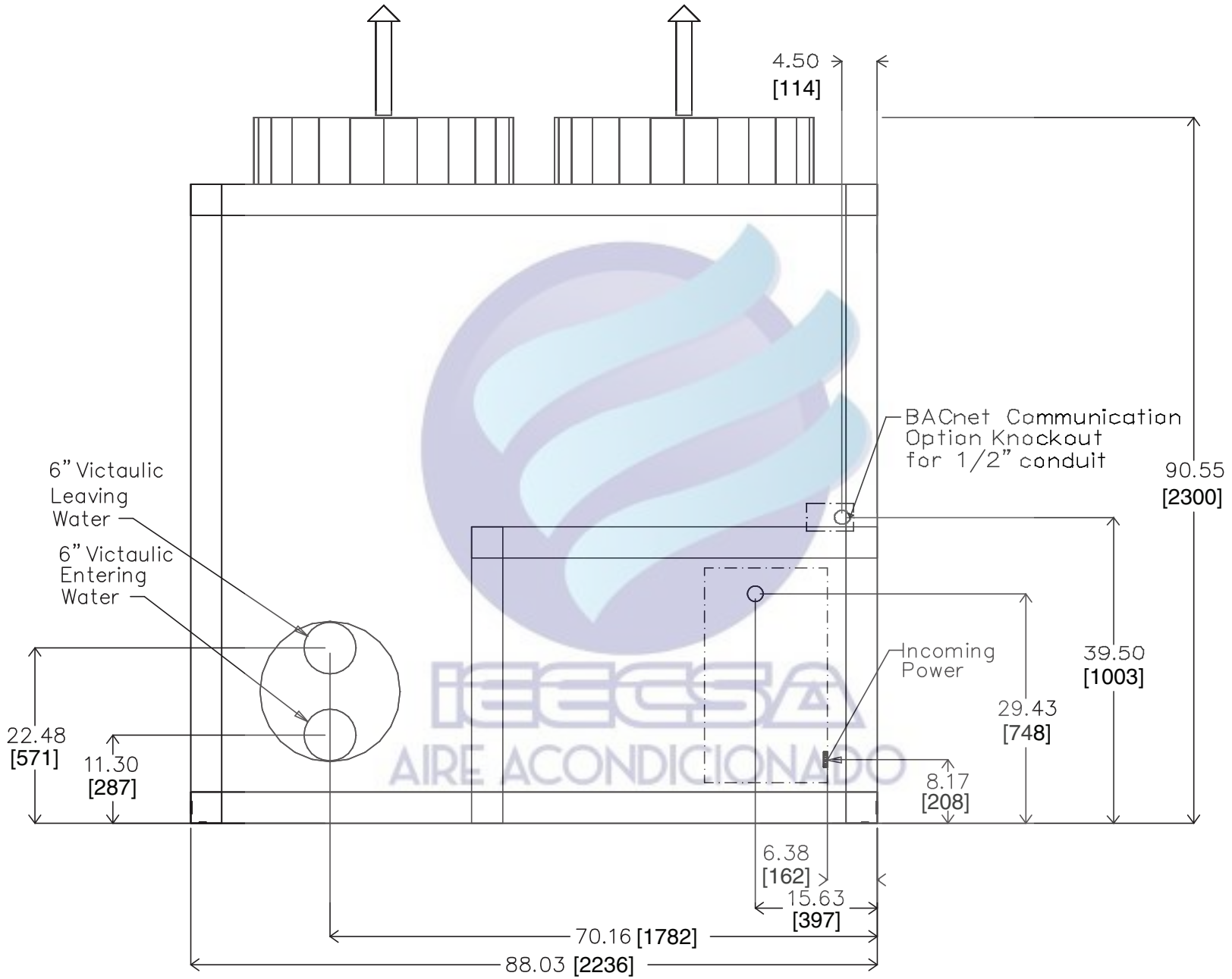
TOP VIEW

Fig. 11 — 30XA180,200 Air-Cooled Liquid Chiller Dimensions (See Note 4)



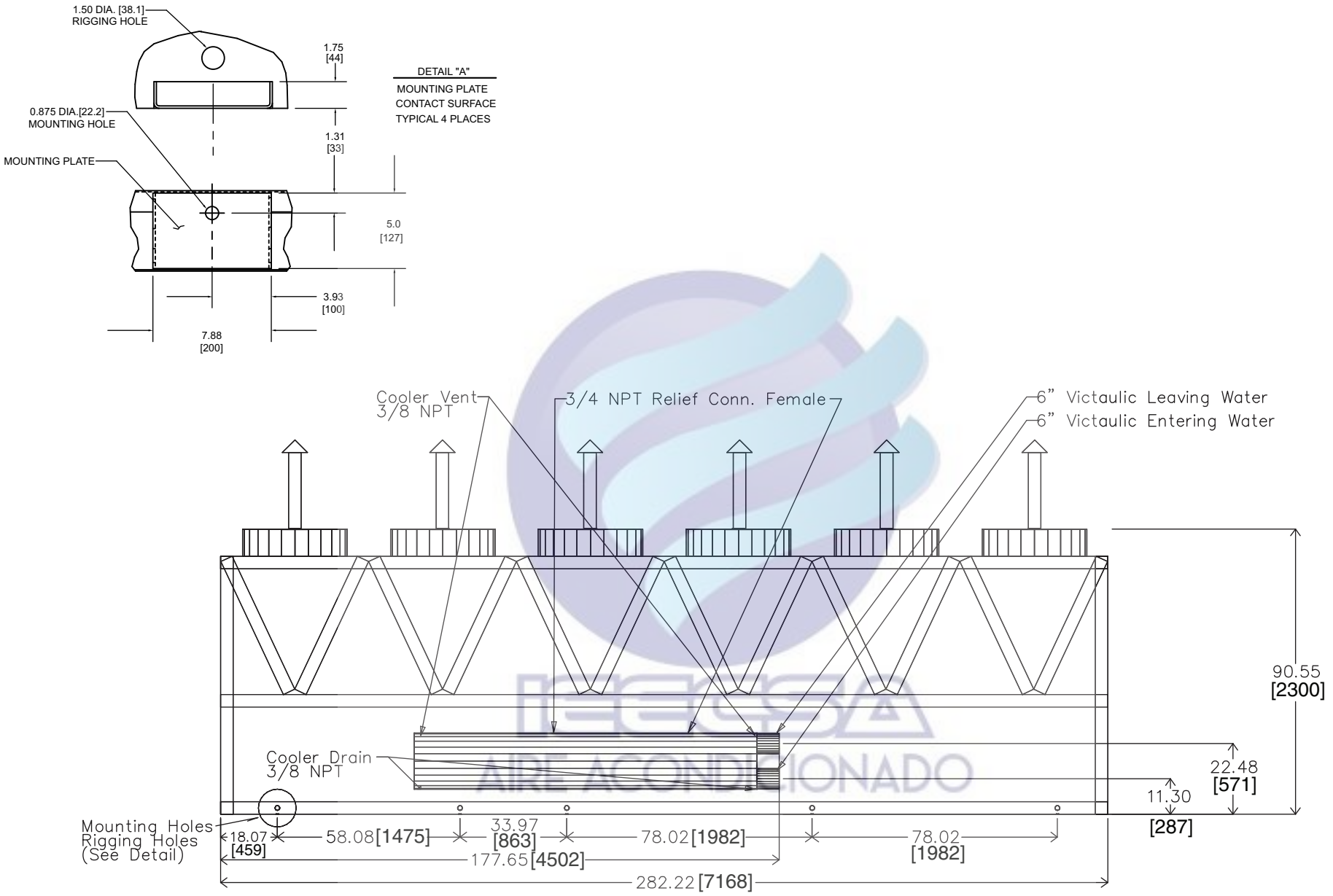
LEFT END VIEW

Fig. 11 — 30XA180,200 Air-Cooled Liquid Chiller Dimensions (cont)



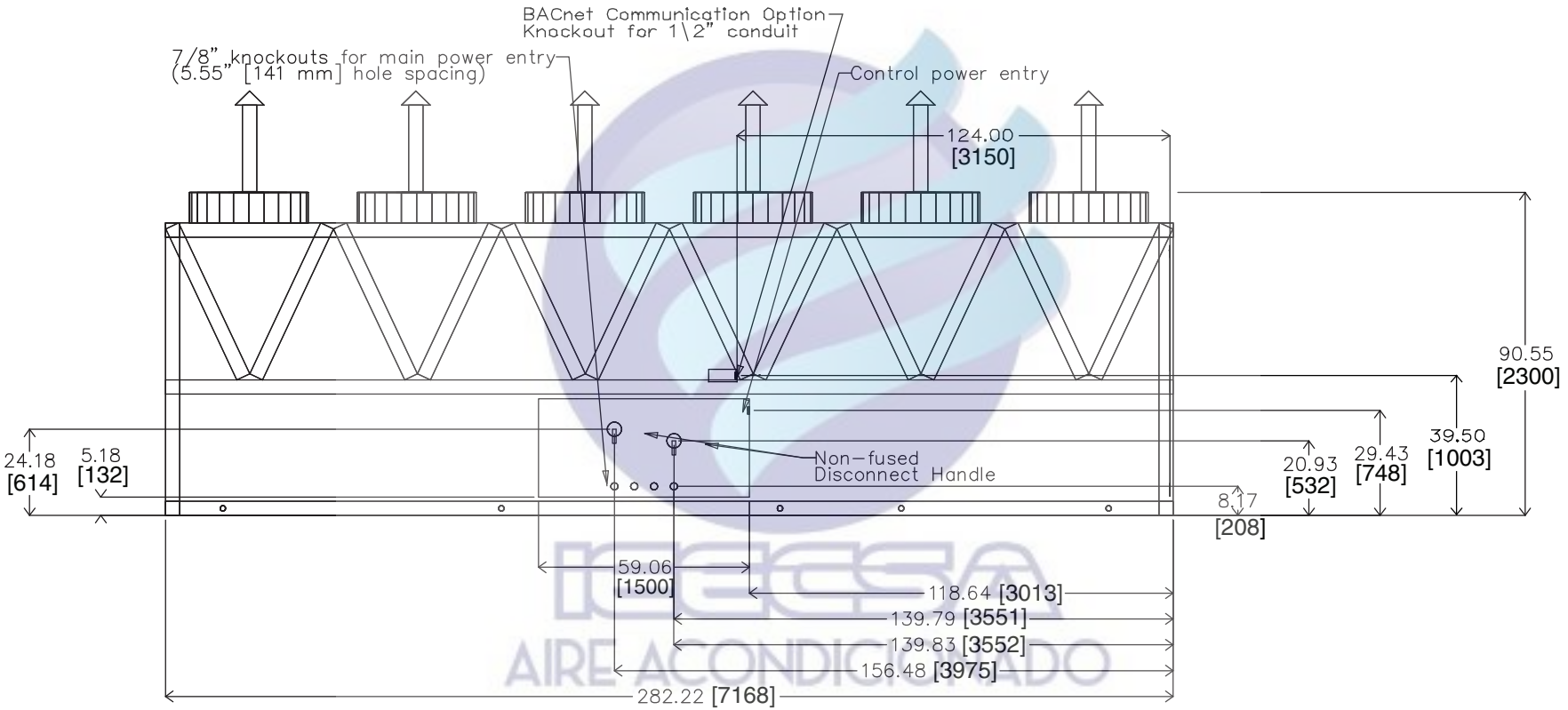
RIGHT END VIEW

Fig. 11 — 30XA180,200 Air-Cooled Liquid Chiller Dimensions (cont)



FRONT VIEW

Fig. 11 — 30XA180,200 Air-Cooled Liquid Chiller Dimensions (cont)



BACK VIEW

Fig. 11 — 30XA180,200 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft (1.8 m) from solid surface.
   For airflow side — 8 ft (2.4 m) required for surface area.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).
4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CENTER OF GRAVITY	
	CGx	CGy
182	138.0 [3505.2]	38.0 [965.2]
202	138.0 [3505.2]	38.0 [965.2]

CONTROL BOX	A	B
STD BOX	22.04 [568.96]	7.87 [199.89]
HSCCR BOX	14.04 [356.61]	6.74 [171.19]

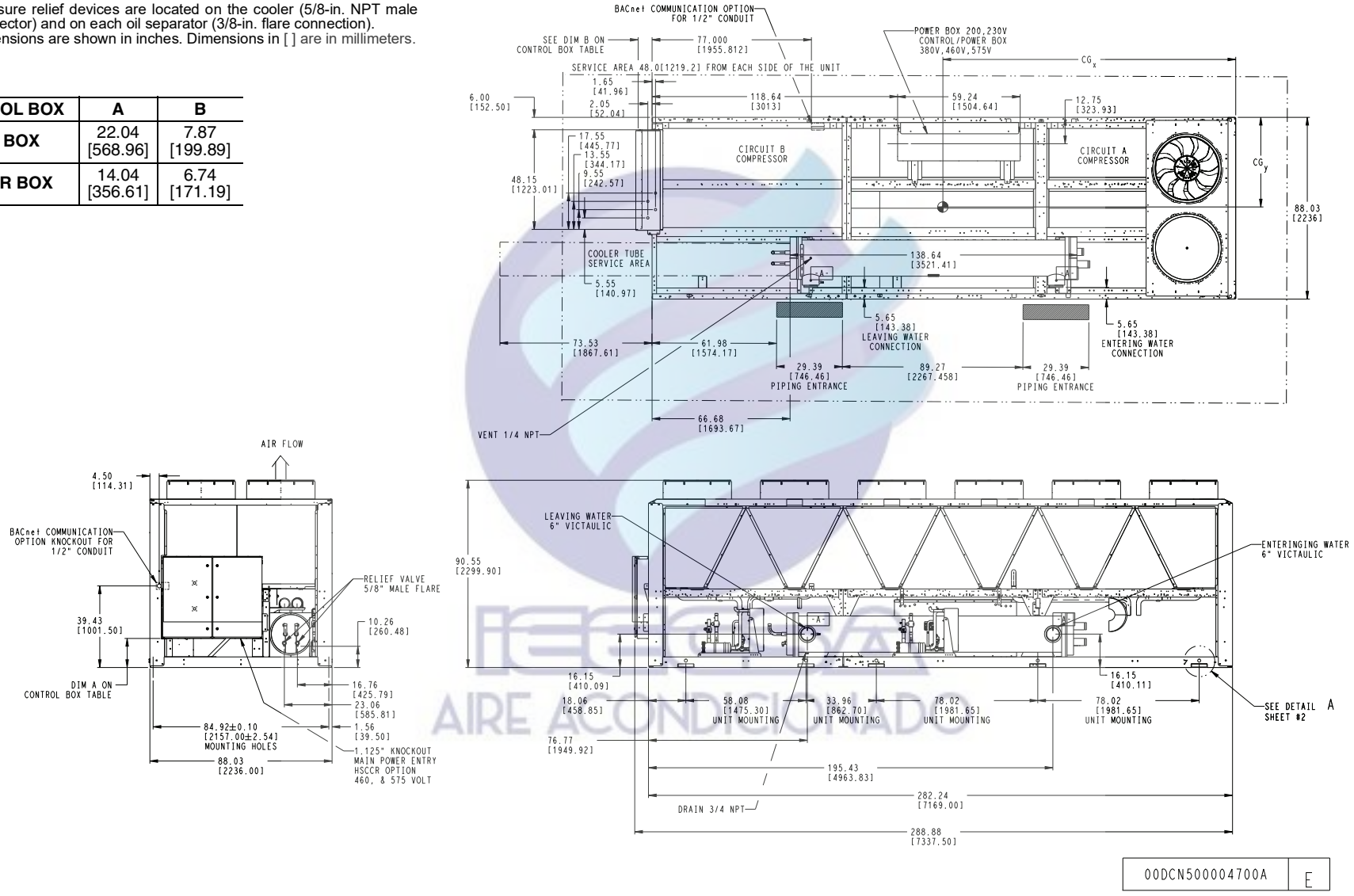


Fig. 12 — 30XA182,202 Air-Cooled Liquid Chiller Dimensions

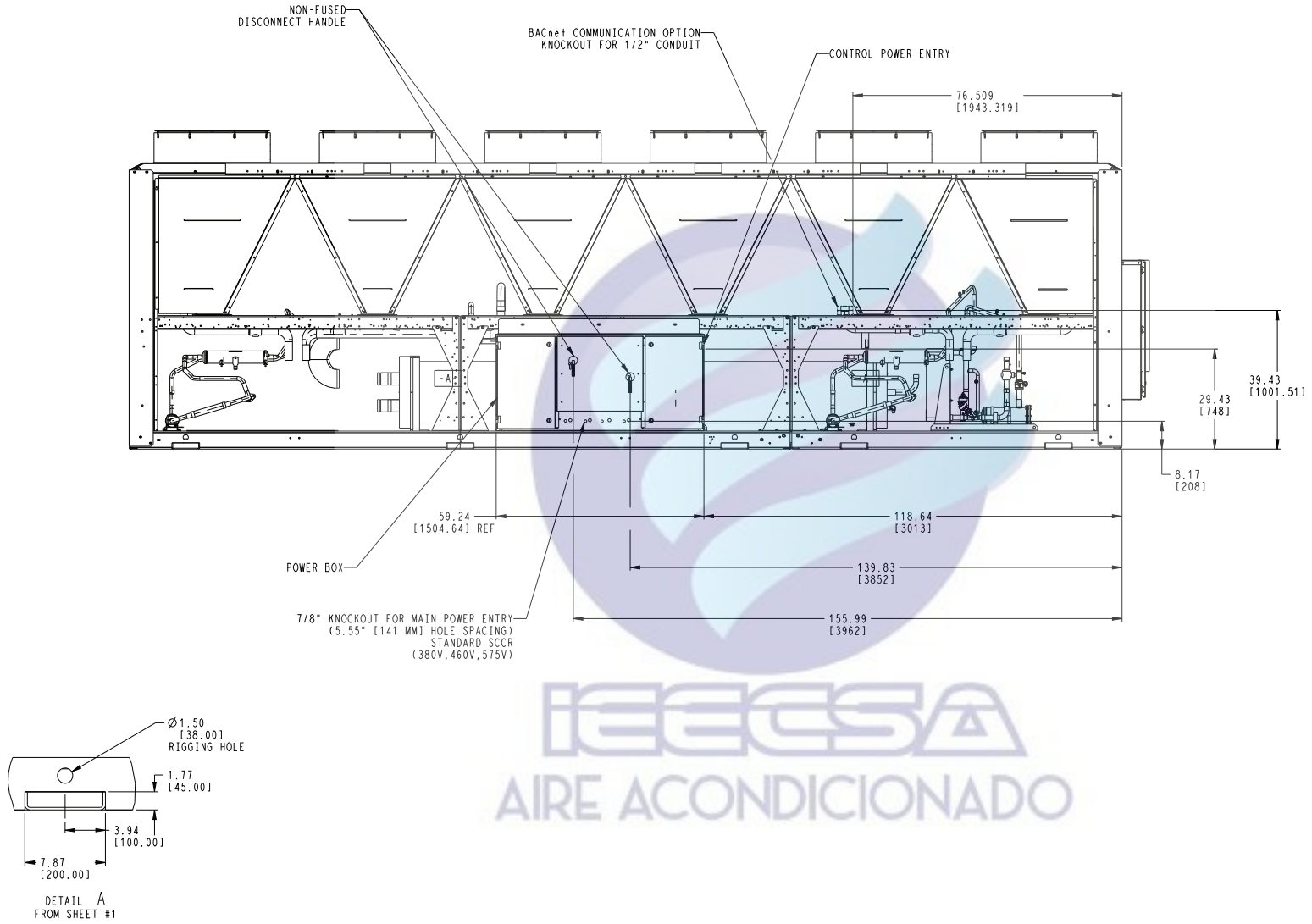


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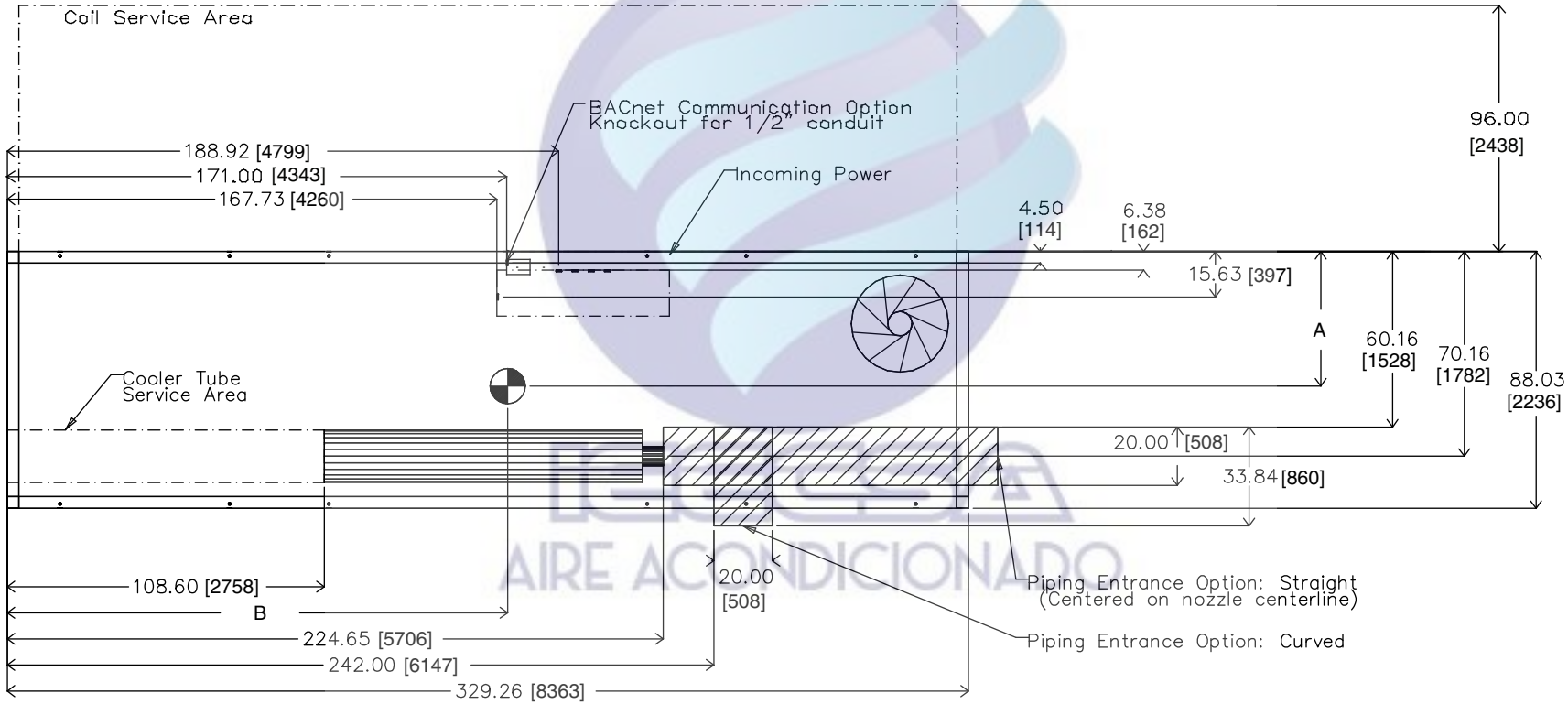
Fig. 12 — 30XA182,202 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

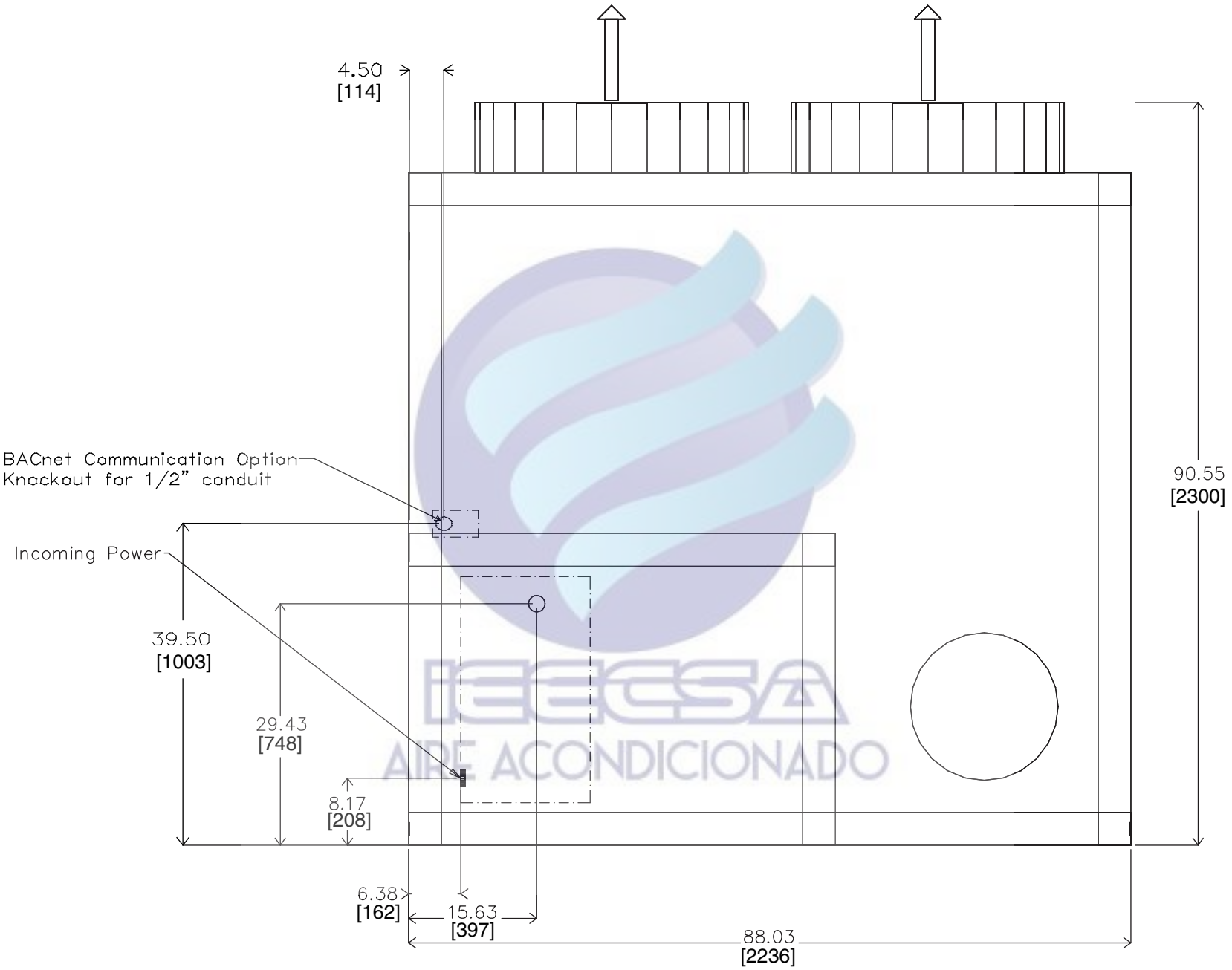
1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single point power, standard two-pass cooler standard SCCR (Short Circuit Current Rating), and nominal voltage range of 380 to 575 v. Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
220	46.17 [1173]	171.42 [4354]
240	46.23 [1174]	170.83 [4339]



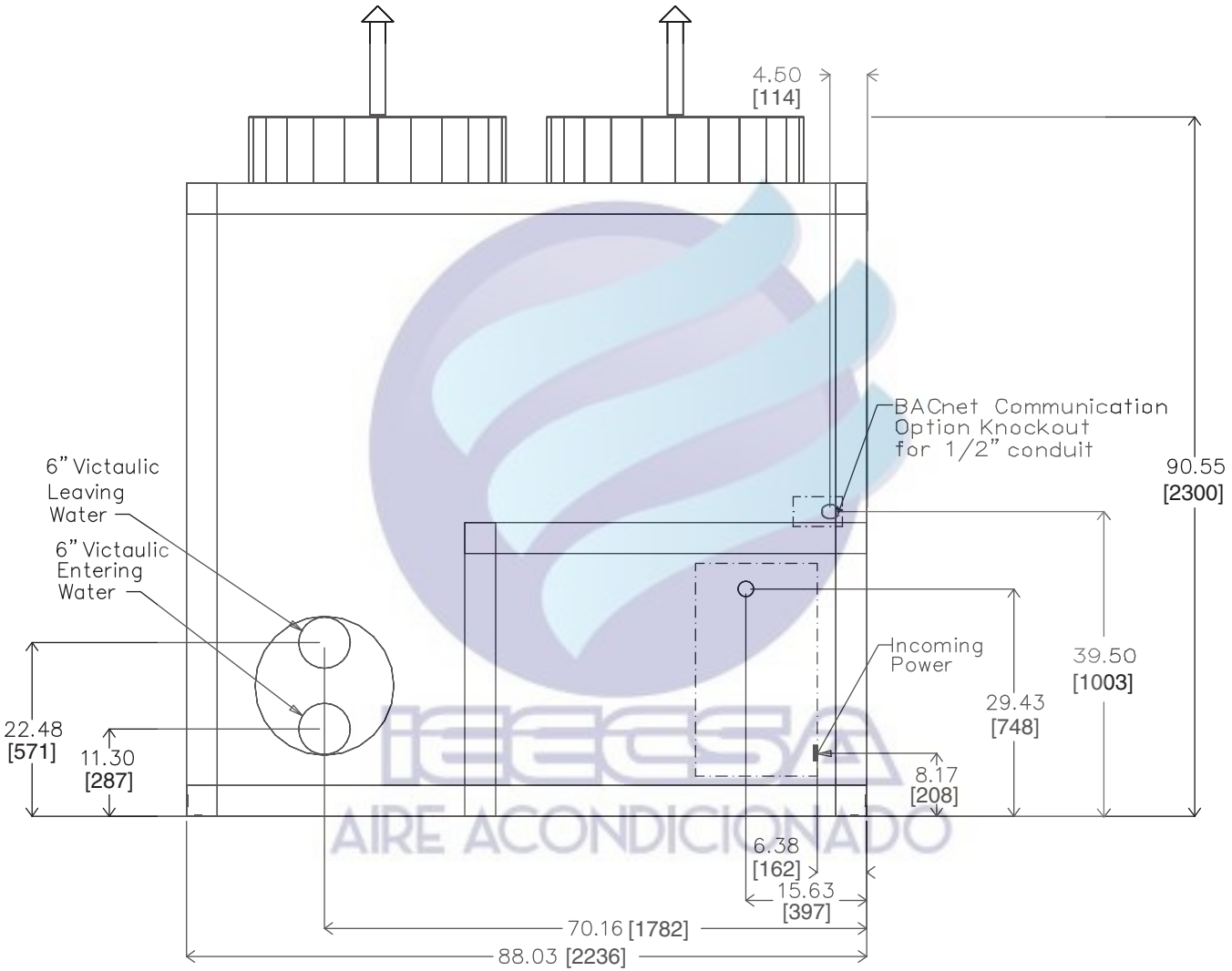
TOP VIEW

Fig. 13 — 30XA220,240 Air-Cooled Liquid Chiller Dimensions (See Note 4)



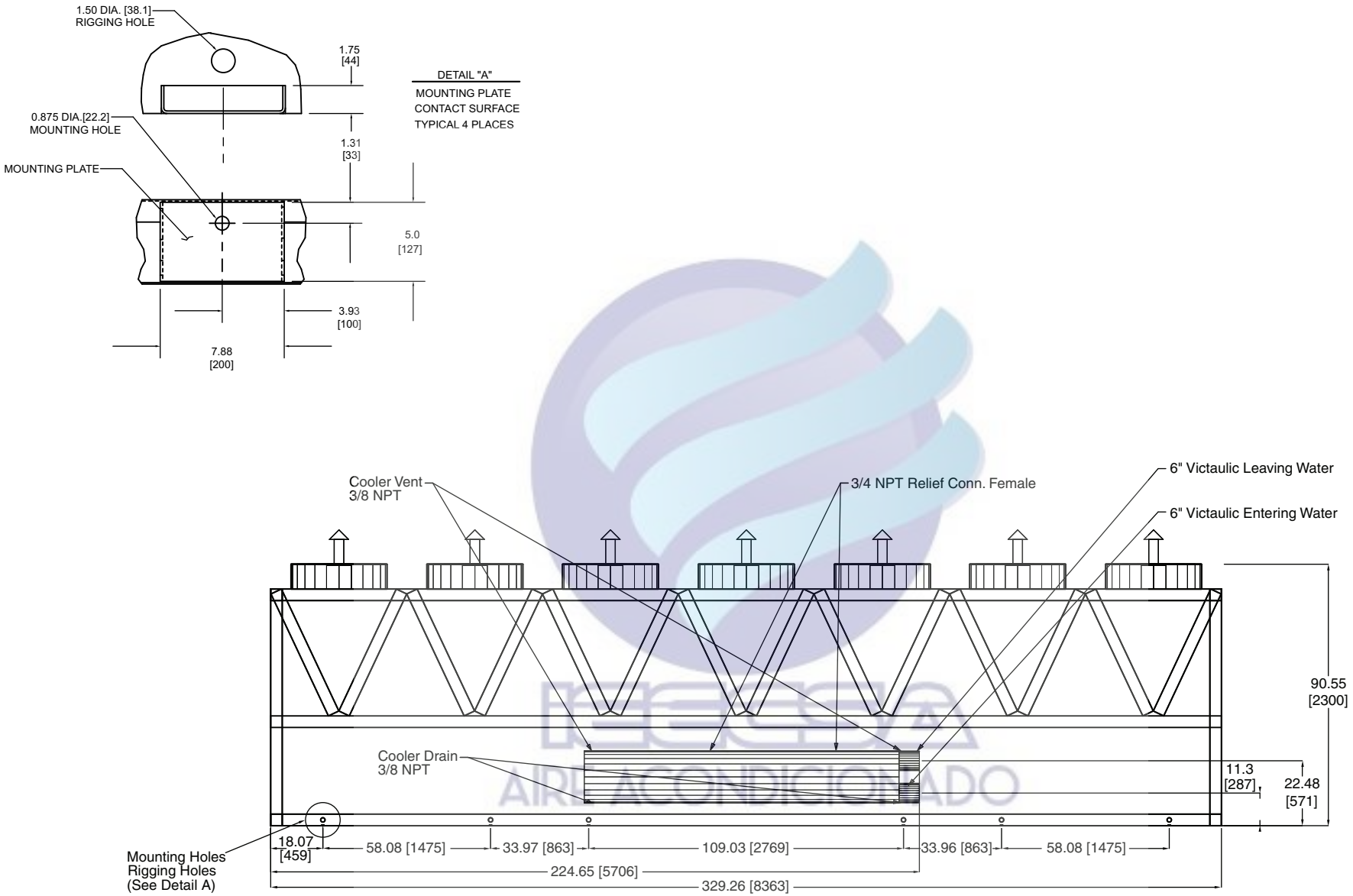
LEFT END VIEW

Fig. 13 — 30XA220,240 Air-Cooled Liquid Chiller Dimensions (cont)



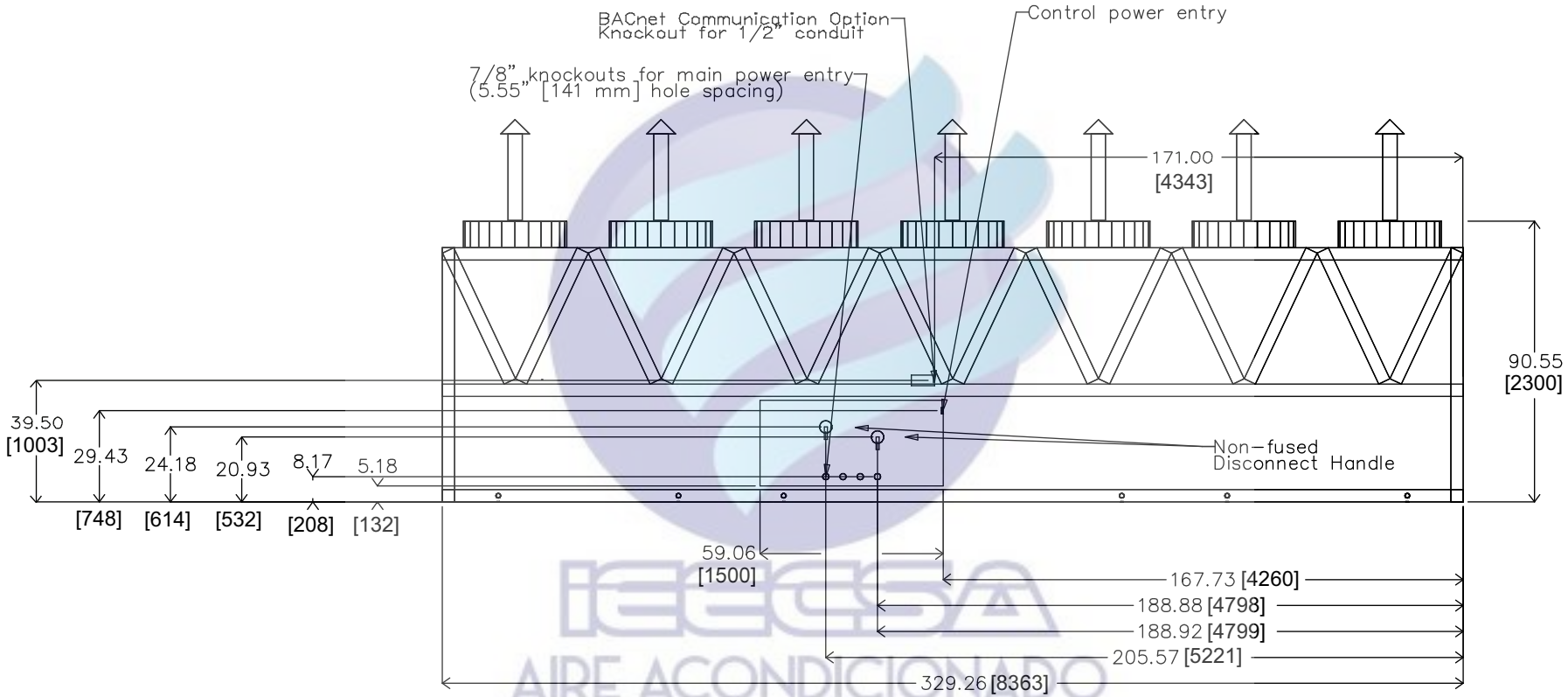
RIGHT END VIEW

Fig. 13 — 30XA220,240 Air-Cooled Liquid Chiller Dimensions (cont)



FRONT VIEW

Fig. 13 — 30XA220,240 Air-Cooled Liquid Chiller Dimensions (cont)



BACK VIEW

Fig. 13 — 30XA220,240 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft from solid surface for airflow.
   Side — 8 ft required for surface area.
   For clearance between multiple units refer to product data in the Application Data section.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).
4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CGx	CGy
222	157.73 [4006]	46.17 [1173]
242	158.32 [4021]	46.23 [1174]

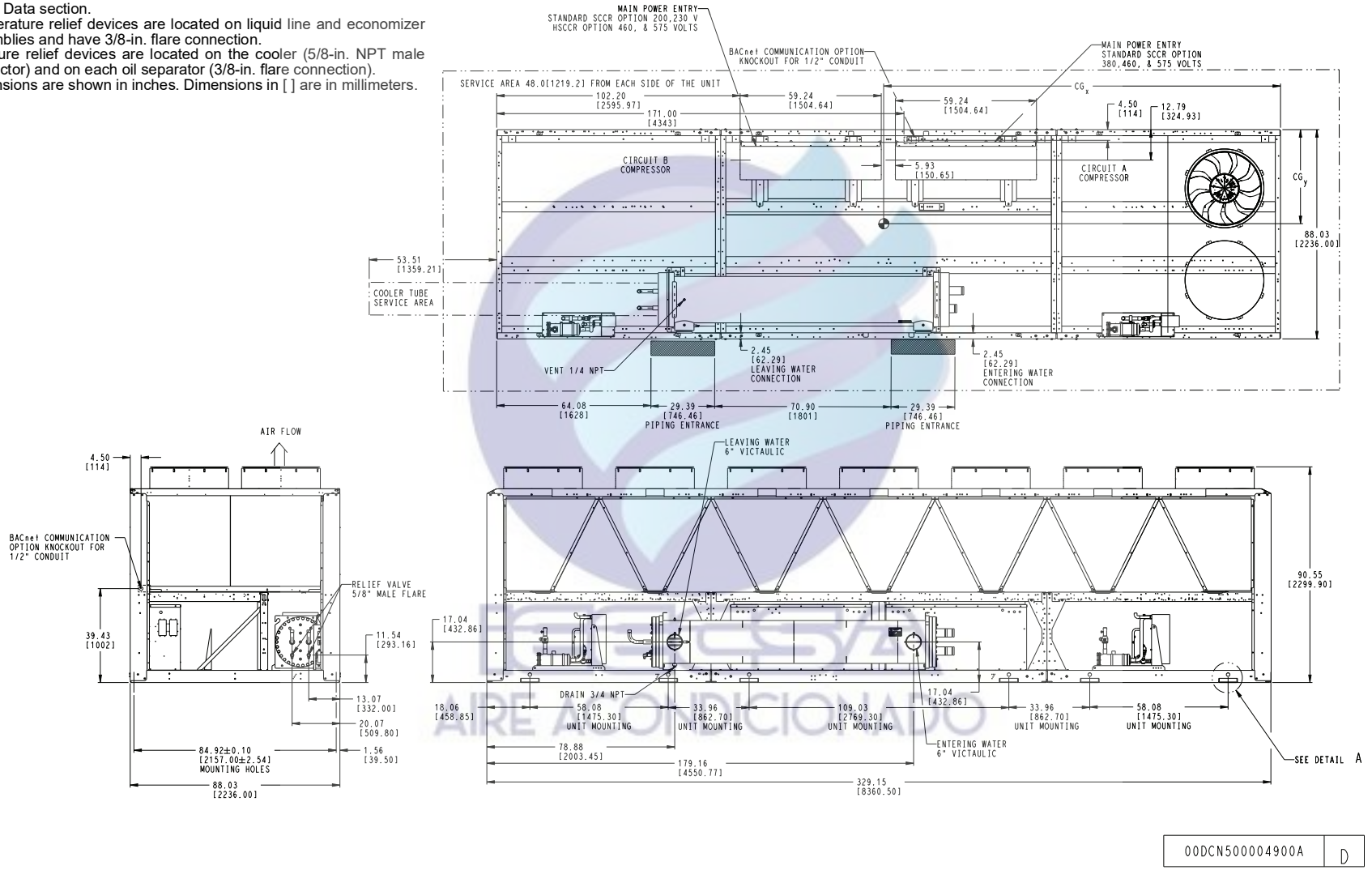


Fig. 14 — 30XA222,242 Air-Cooled Liquid Chiller Dimensions

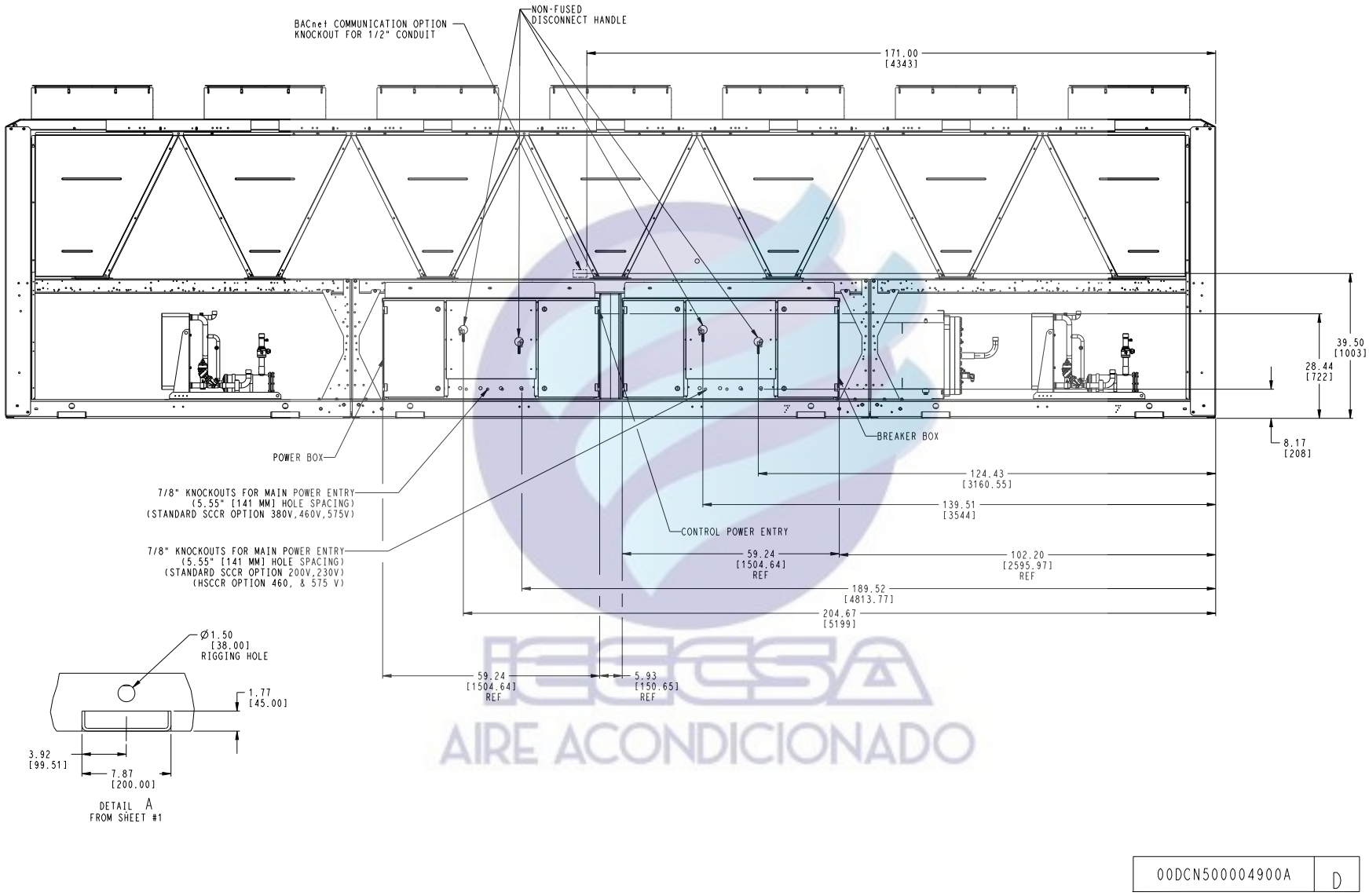
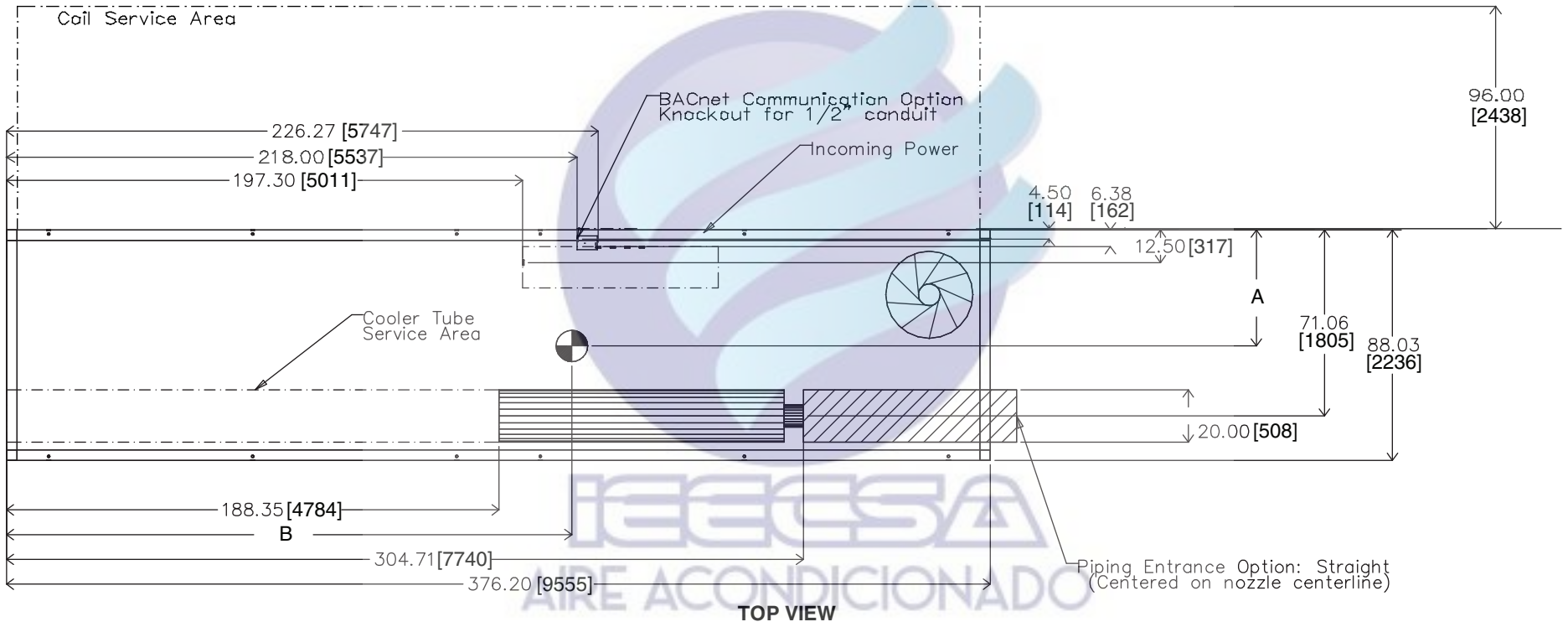


Fig. 14 — 30XA222,242 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

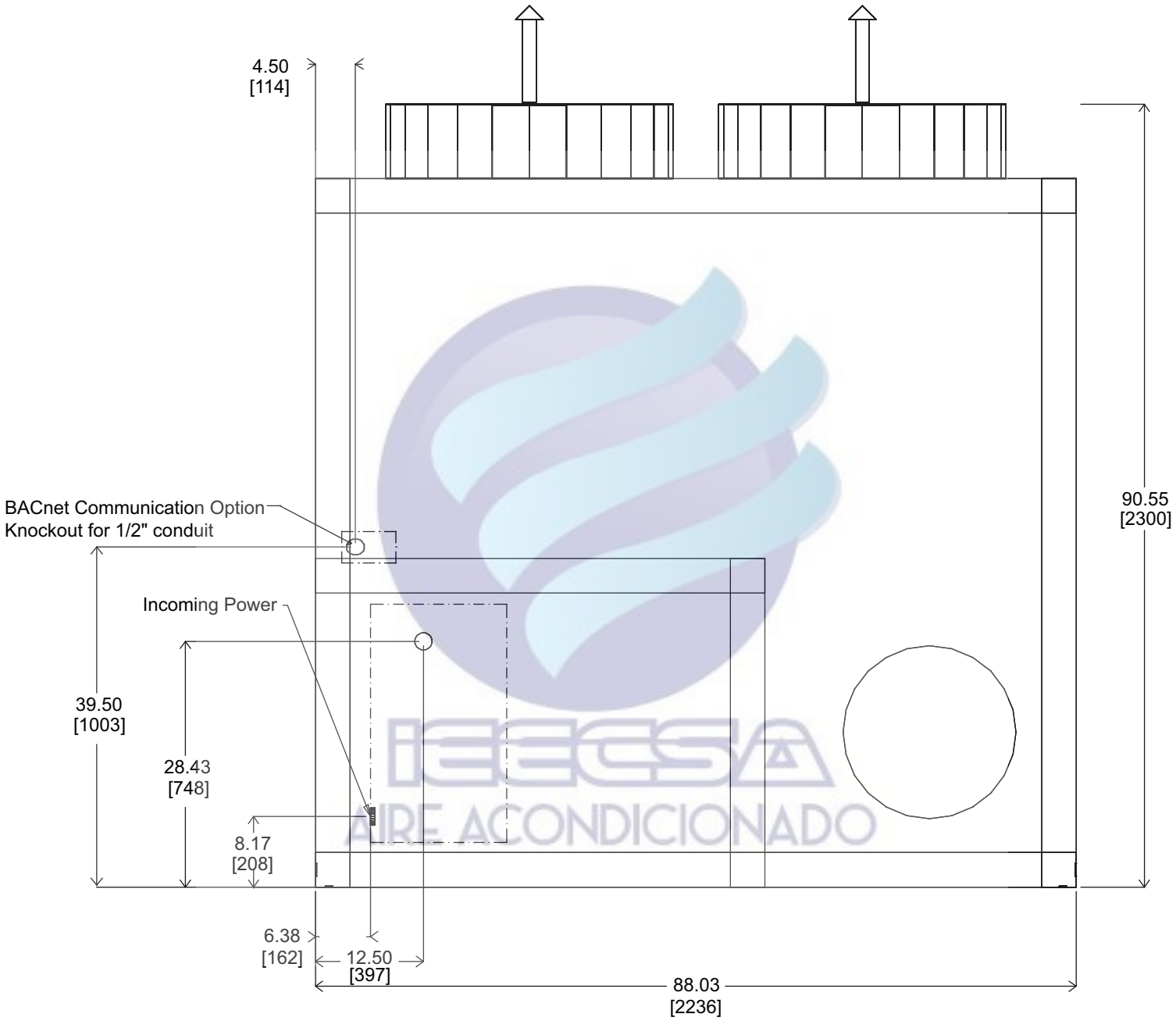
1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single point power, standard two-pass cooler and standard SCCR (Short Circuit Current Rating). Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
260	44.22 [1123]	216.16 [5490]
280	44.30 [1125]	215.86 [5483]
300	44.32 [1126]	216.18 [5491]



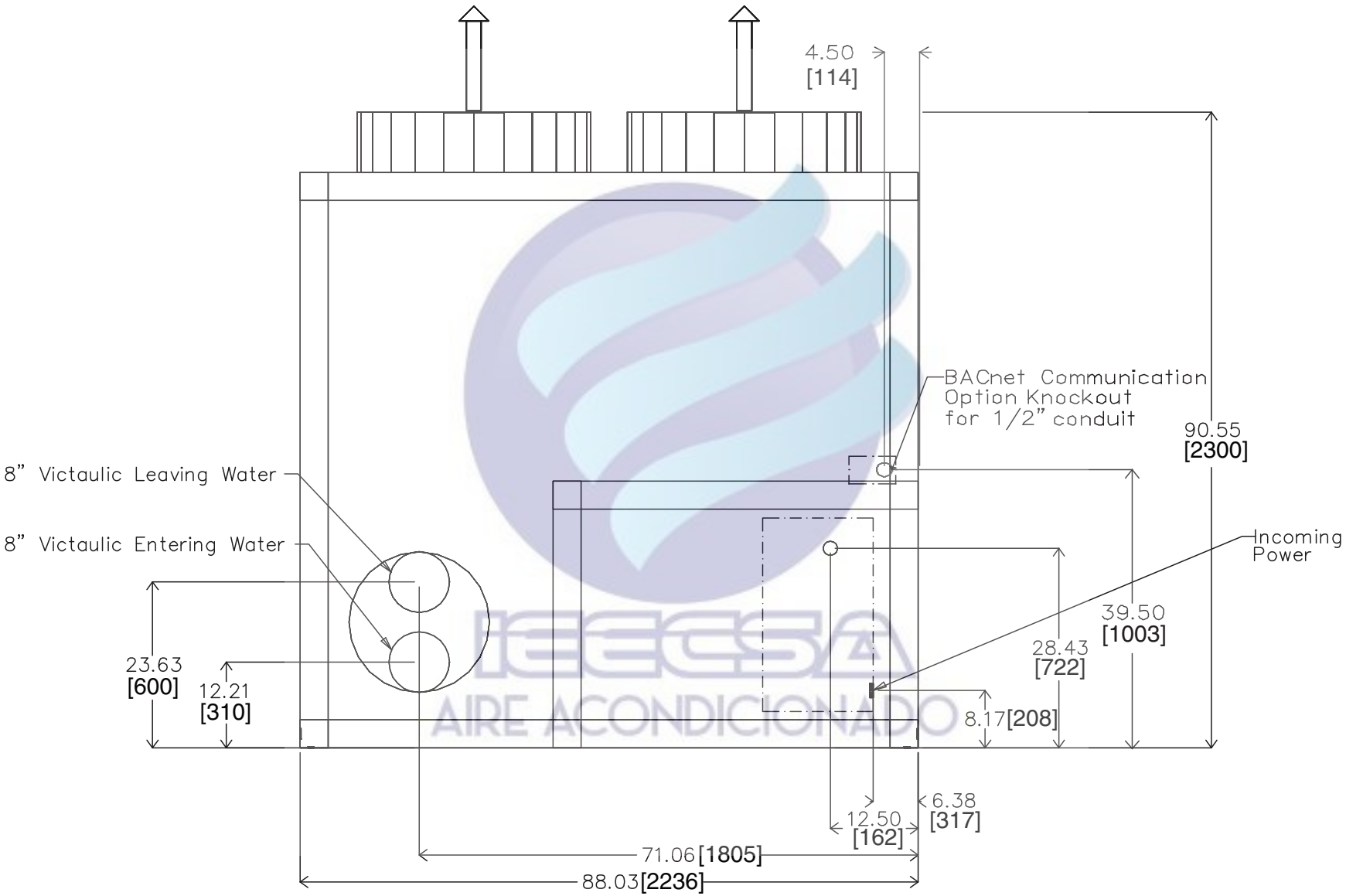
TOP VIEW

Fig. 15 — 30XA260, 280, 300 Air-Cooled Liquid Chiller Dimensions (See Note 4)



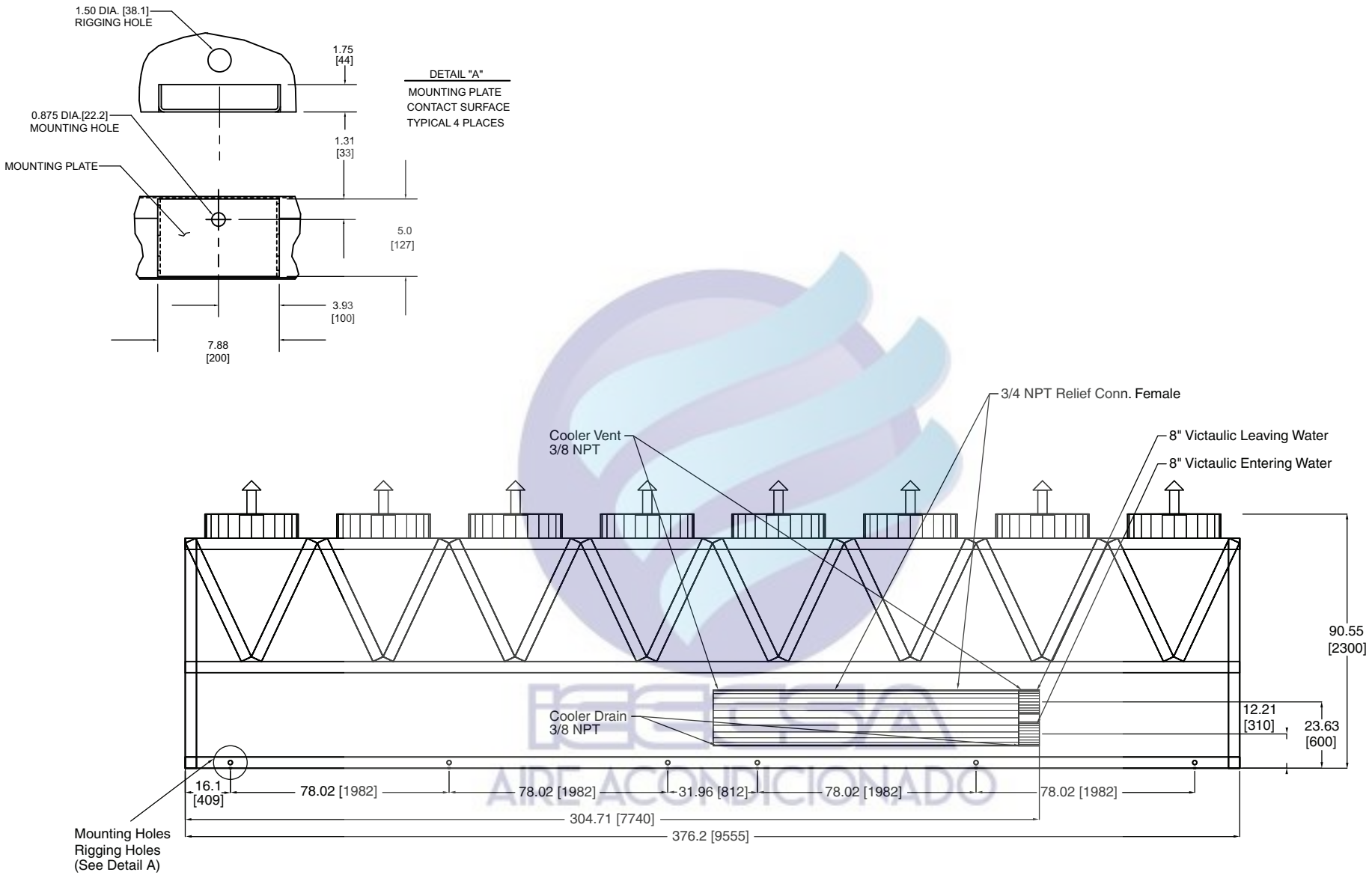
LEFT END VIEW

Fig. 15 — 30XA260, 280, 300 Air-Cooled Liquid Chiller Dimensions (cont)



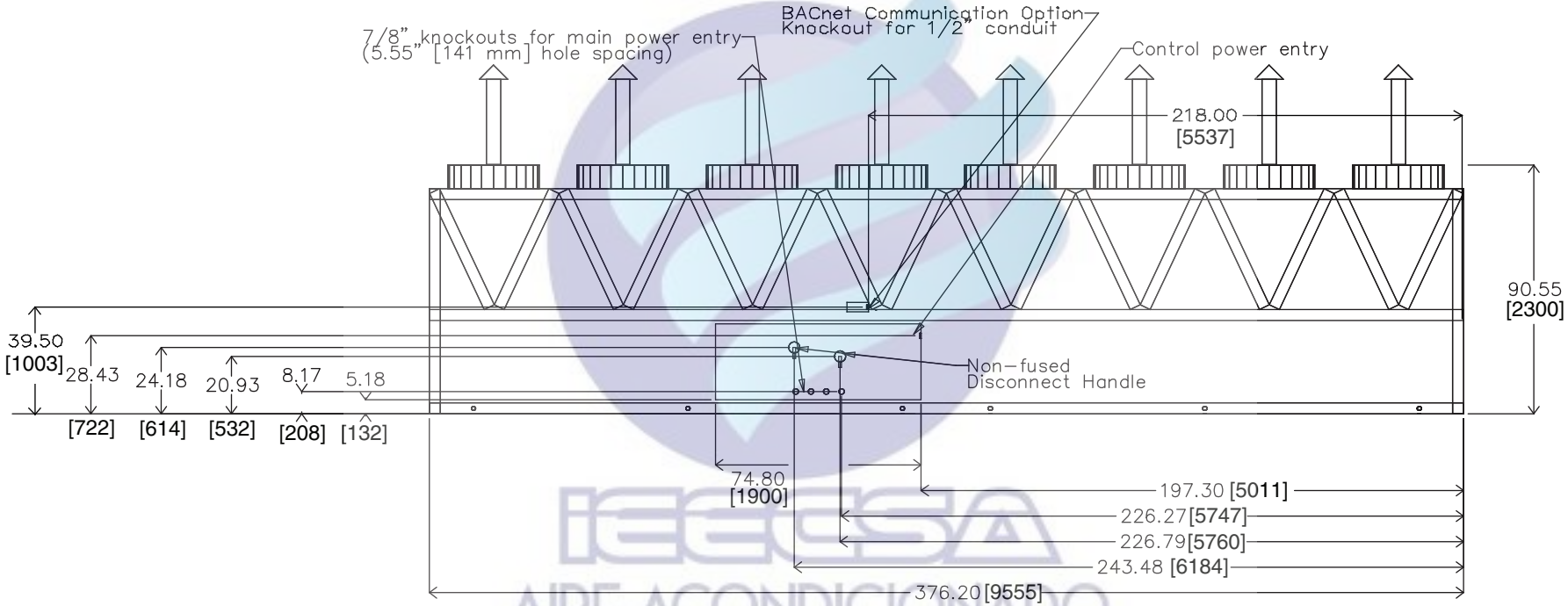
RIGHT END VIEW

Fig. 15 — 30XA260, 280, 300 Air-Cooled Liquid Chiller Dimensions (cont)



FRONT VIEW

Fig. 15 — 30XA260, 280, 300 Air-Cooled Liquid Chiller Dimensions (cont)



BACK VIEW

Fig. 15 — 30XA260, 280, 300 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft from solid surface for airflow.
   Side — 8 ft required for surface area.
   For clearance between multiple units refer to product data in the Application Data section.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).
4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CGx	CGy
262	160.10 [4067]	44.22 [1123]
282	160.40 [4074]	44.30 [1125]

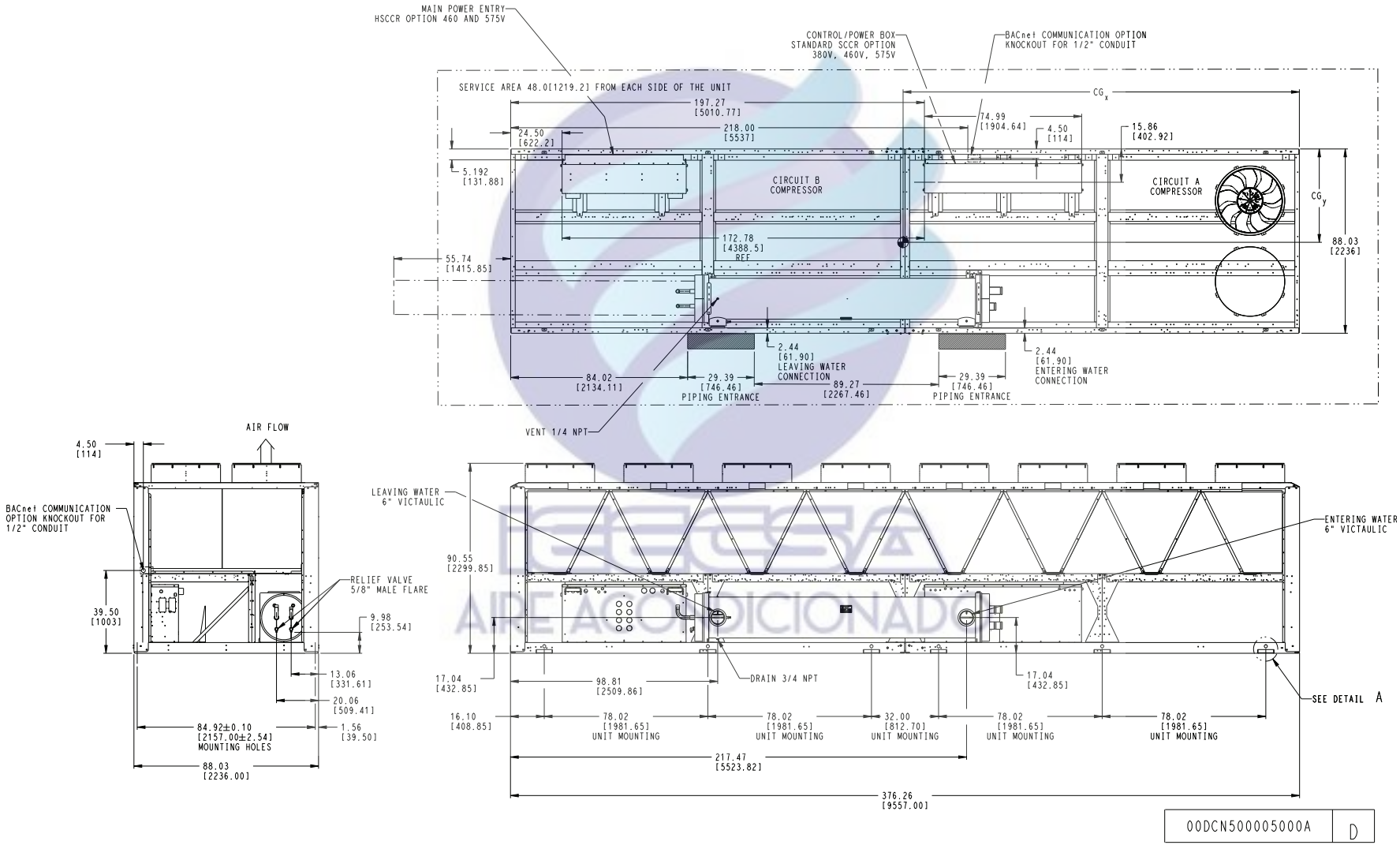


Fig. 16 — 30XA262, 282 Air-Cooled Liquid Chiller Dimensions

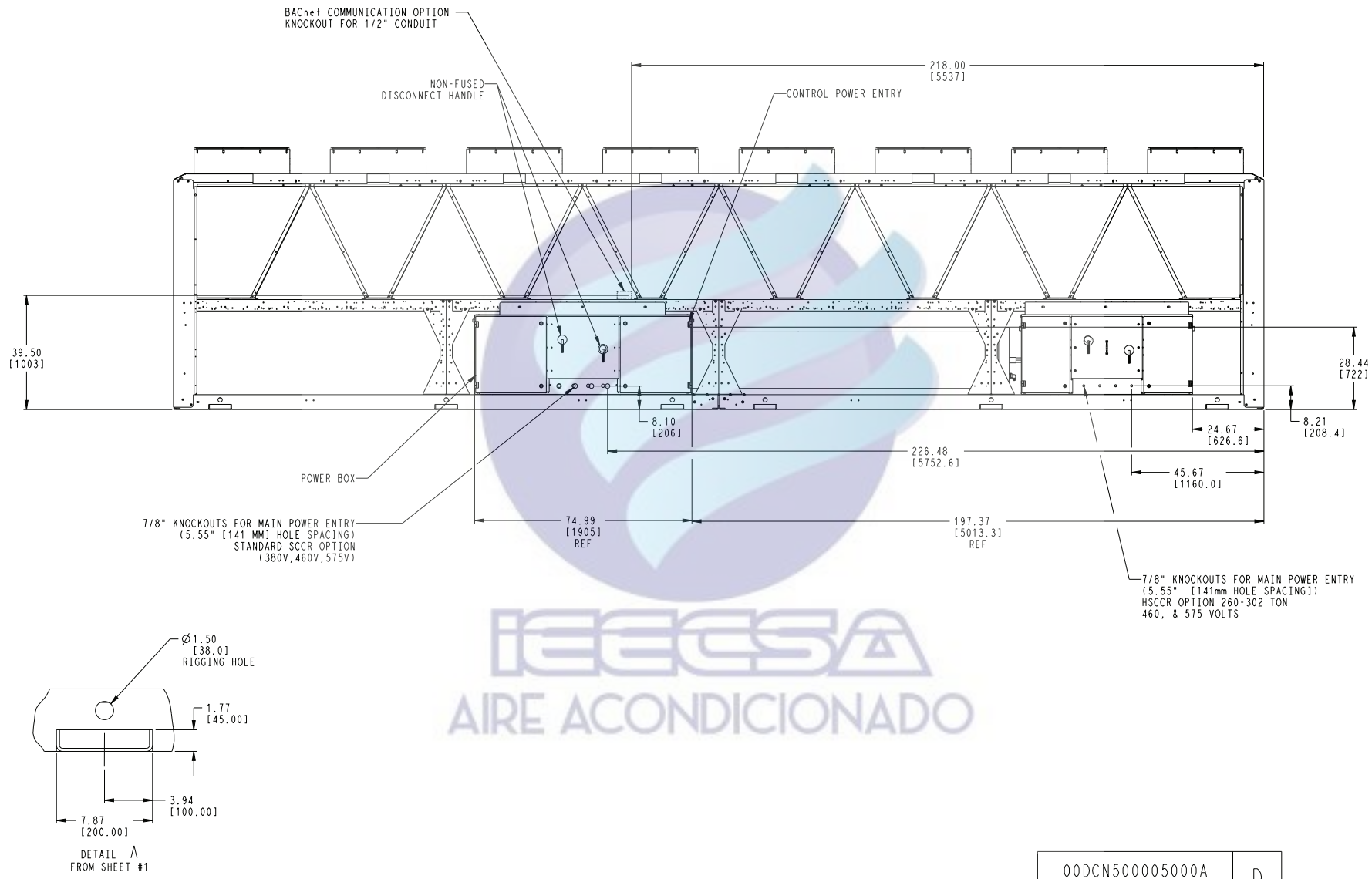


Fig. 16 — 30XA262, 282 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft from solid surface for airflow.
   Side — 8 ft required for surface area.
   For clearance between multiple units refer to product data in the Application Data section.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).
4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CGx	CGy
302	160.08 [4066]	44.32 [1126]

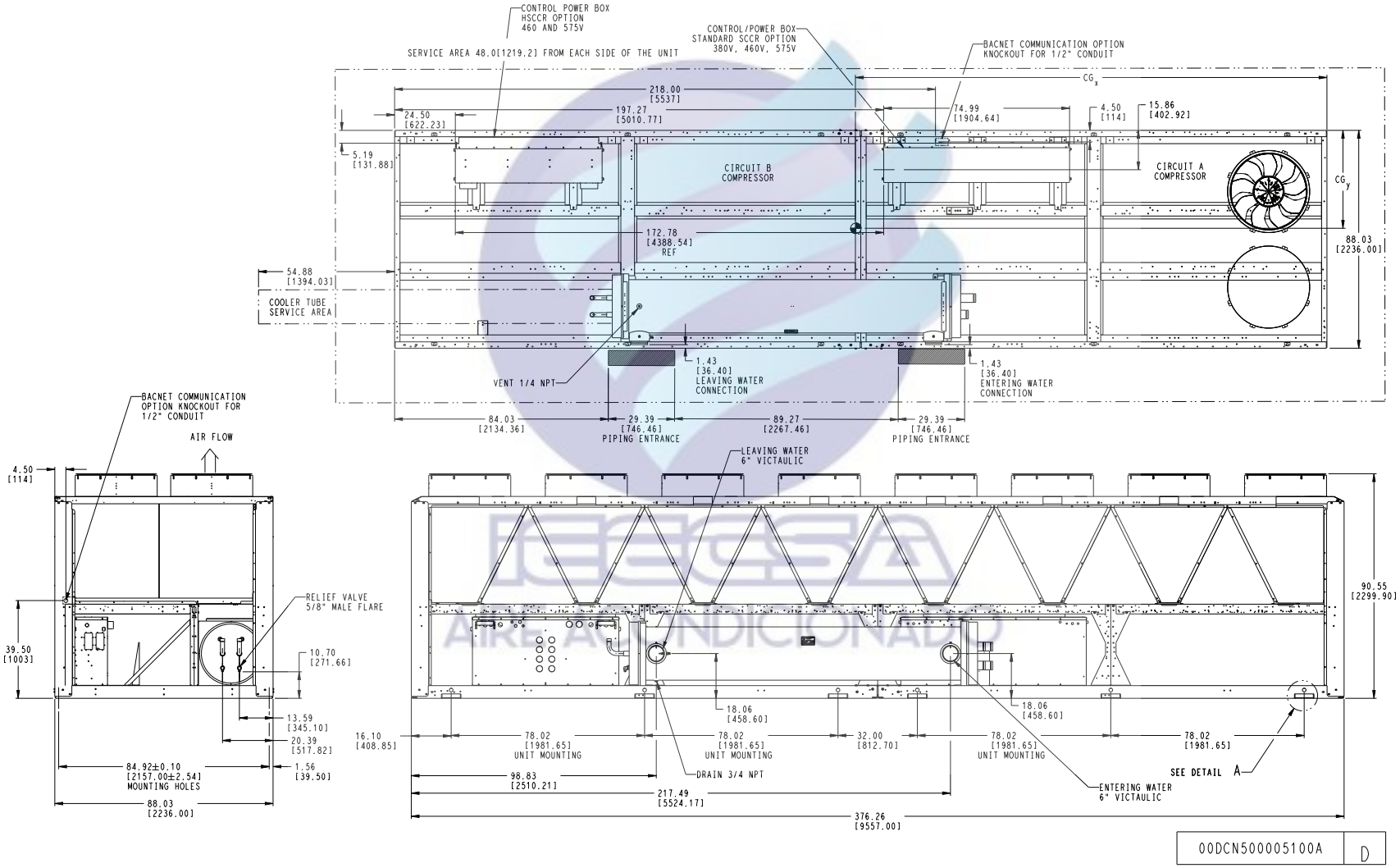


Fig. 17 — 30XA302 Air-Cooled Liquid Chiller Dimensions

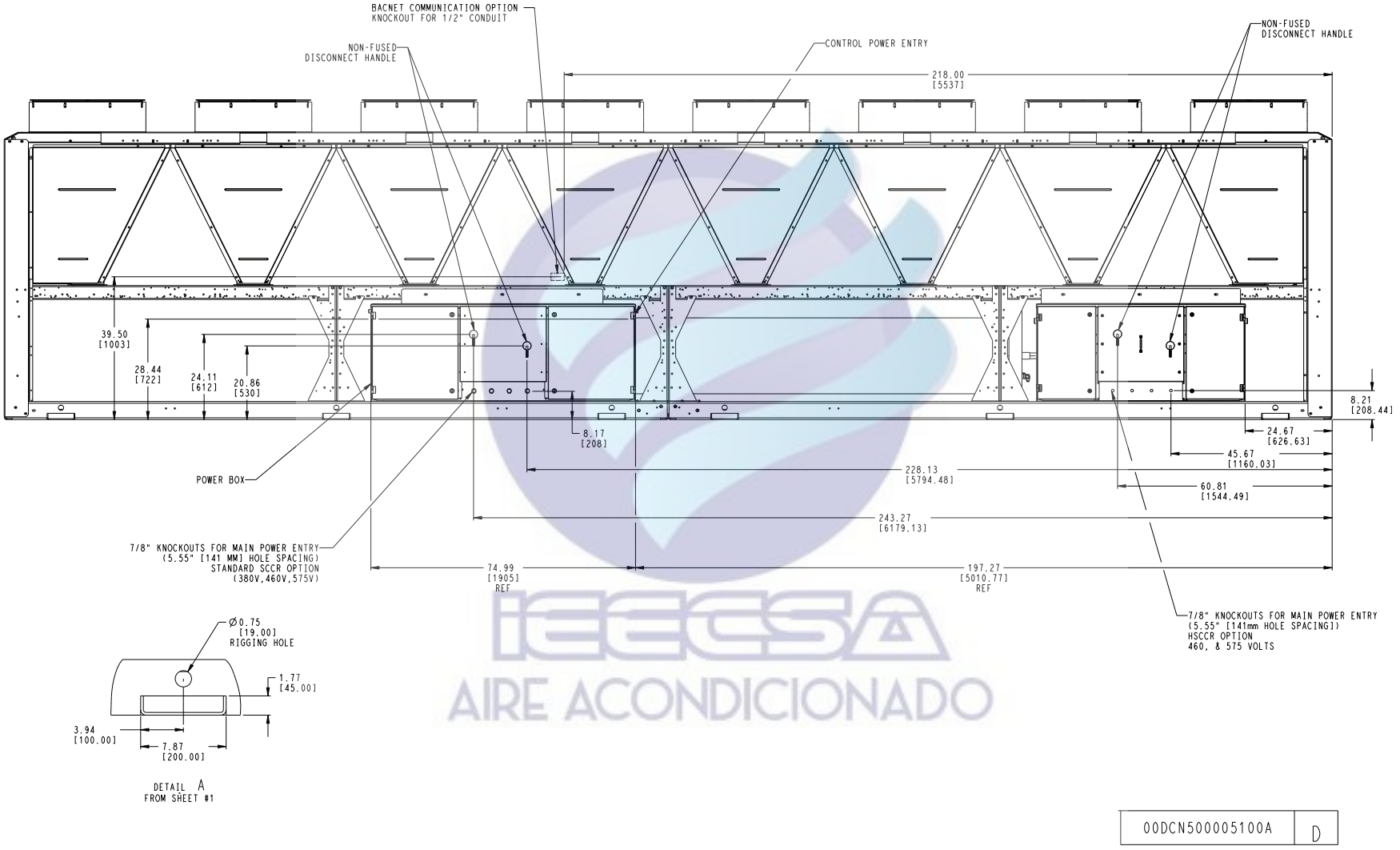
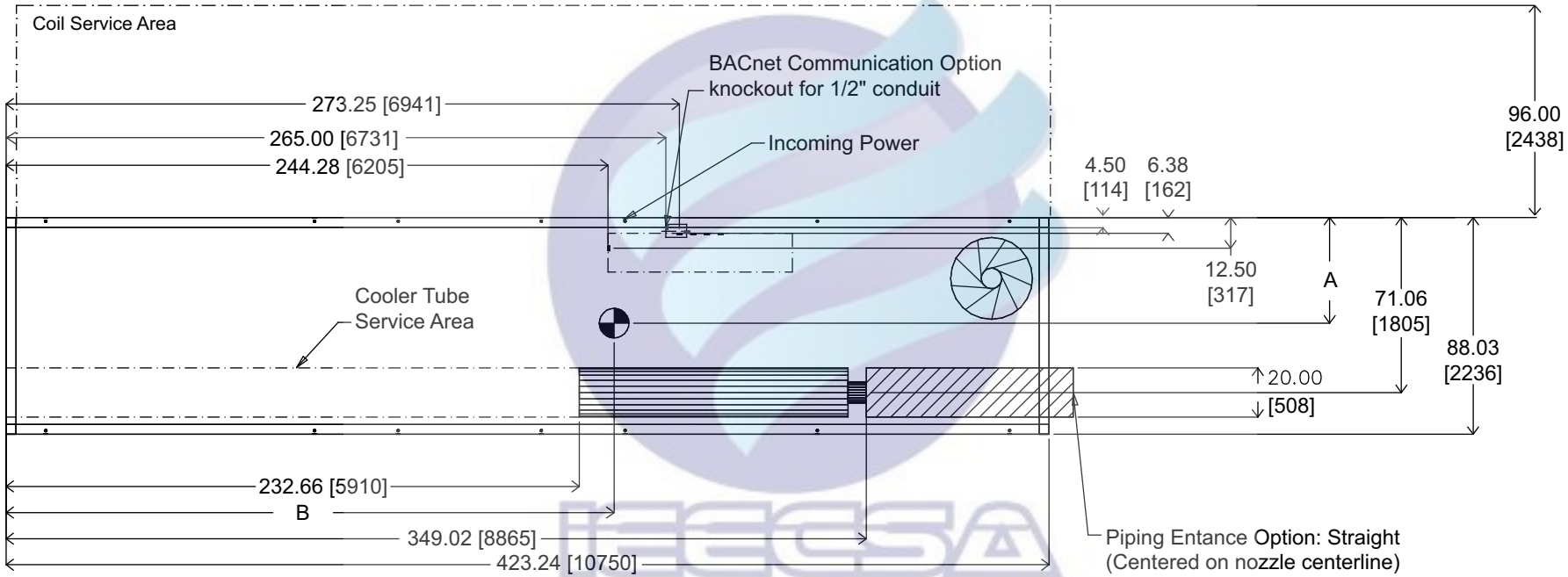


Fig. 17 — 30XA302 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and Ends — 6 ft (1.8 m) from solid surface.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. 3/8-in. NPT vents and drains located in each cooler head at each end of cooler.
4. Drawing depicts unit with single point power, standard two-pass cooler and standard SCCR (Short Circuit Current Rating). Refer to the Packaged Chiller Builder program for other configurations.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	A	B
325	42.92 [1090]	246.16 [6252]
350	42.92 [1090]	246.72 [6267]



TOP VIEW

Fig. 18 — 30XA325,350 Air-Cooled Liquid Chiller Dimensions (See Note 4)

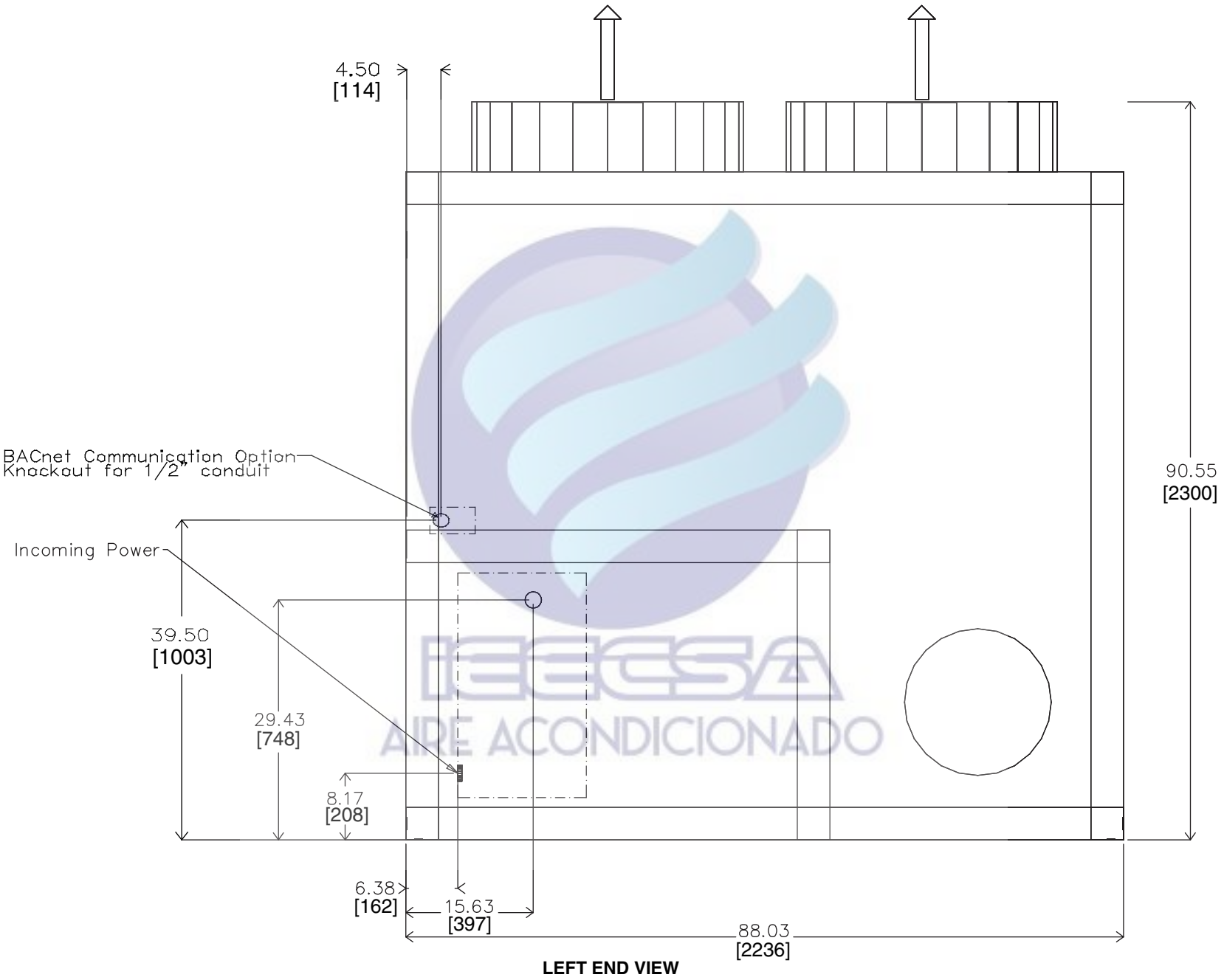
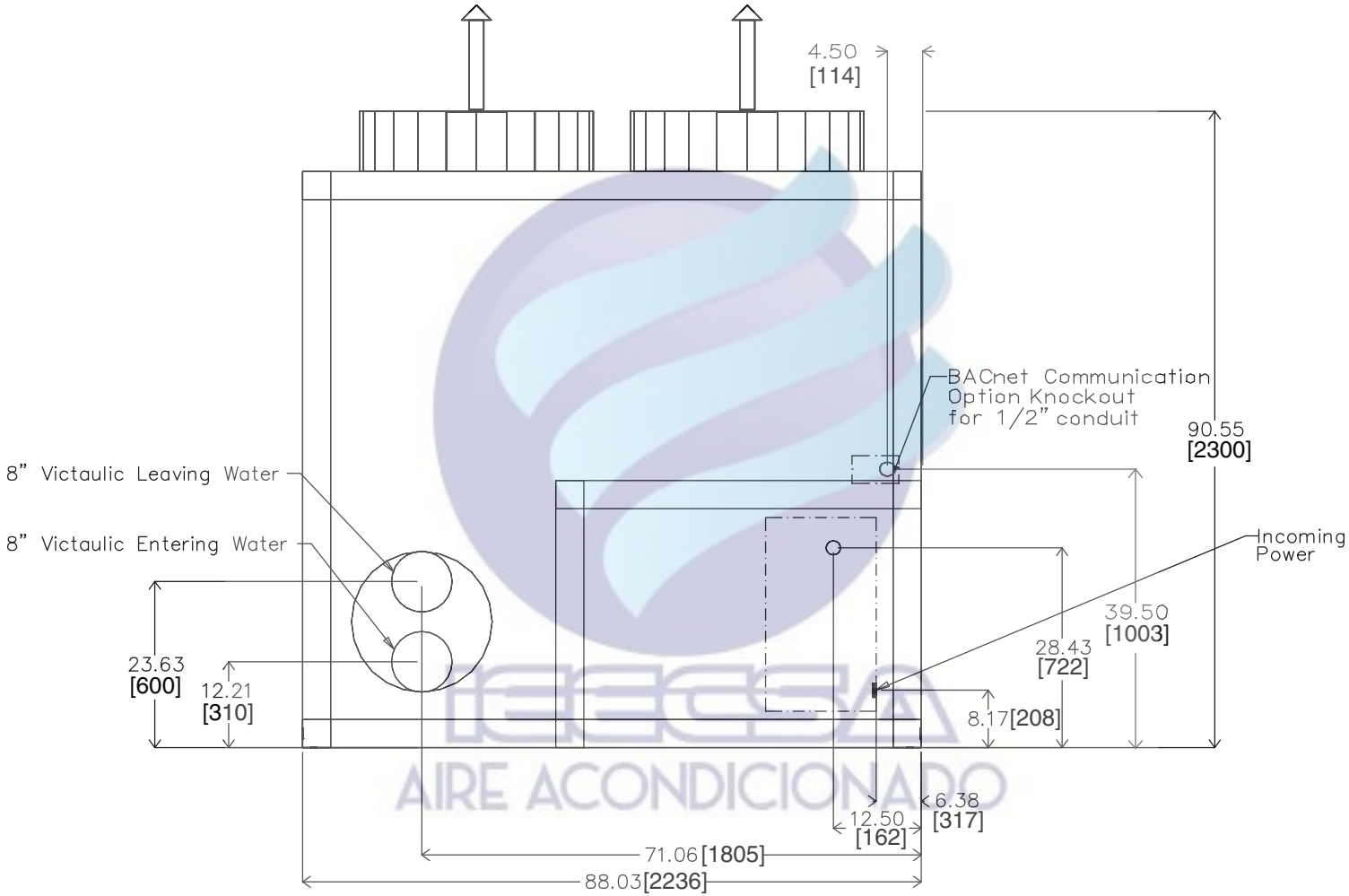
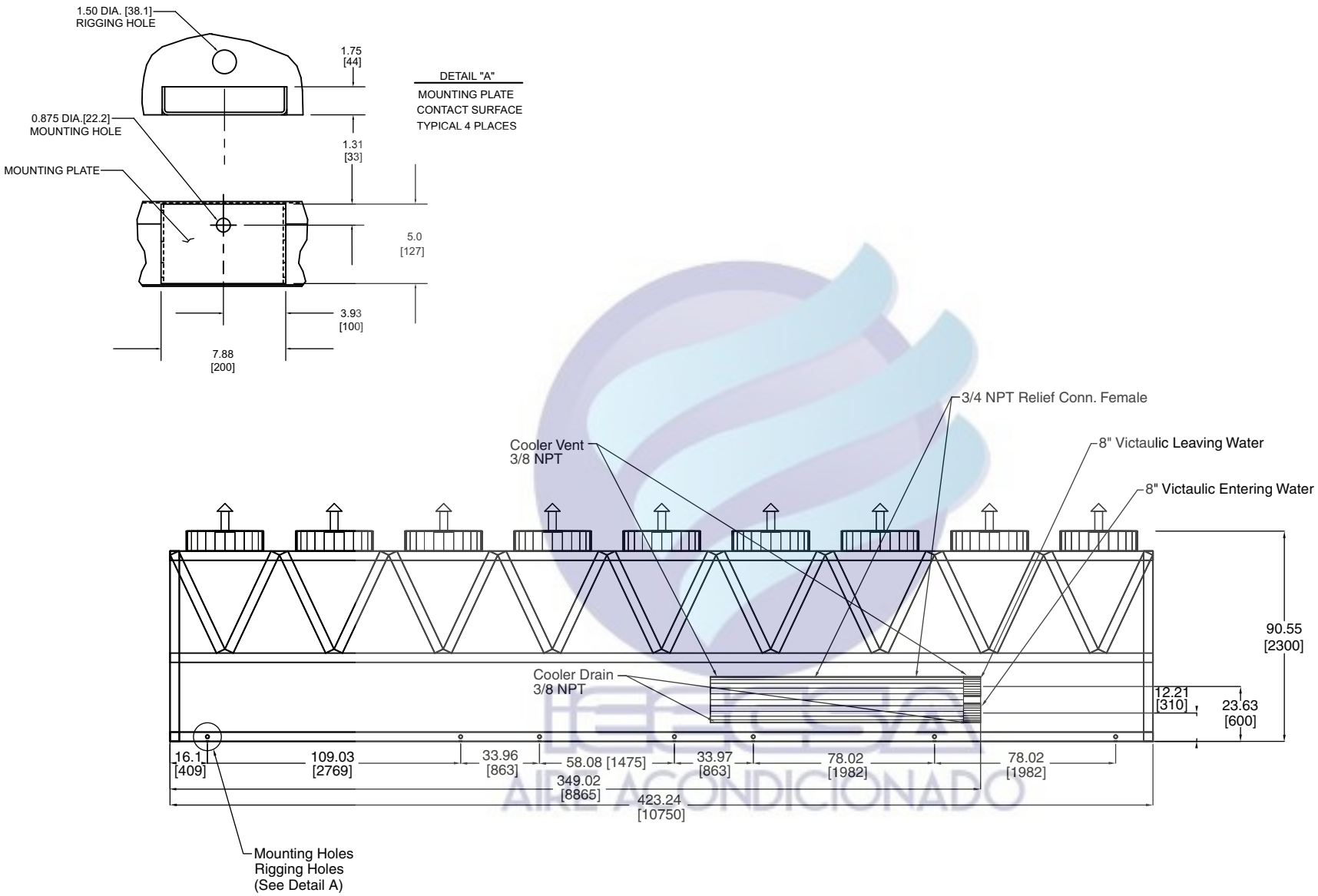


Fig. 18 — 30XA325,350 Air-Cooled Liquid Chiller Dimensions (cont)



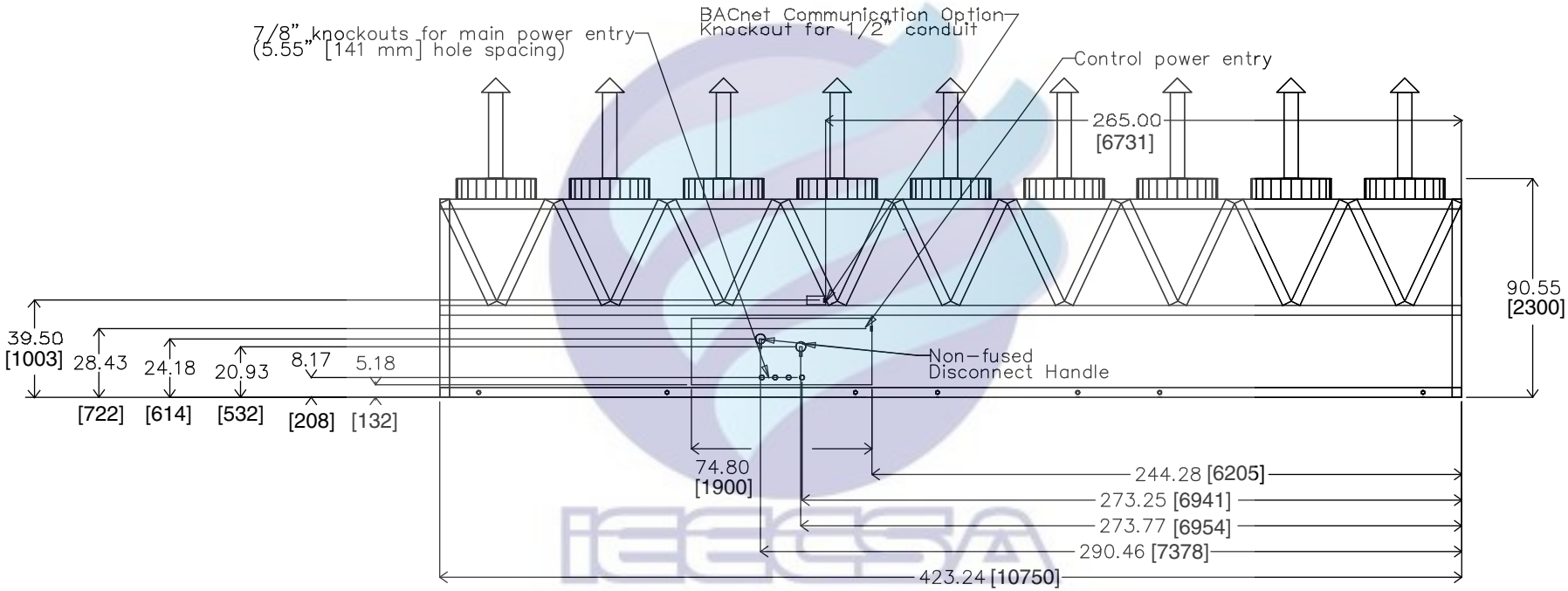
RIGHT END VIEW

Fig. 18 — 30XA325,350 Air-Cooled Liquid Chiller Dimensions (cont)



FRONT VIEW

Fig. 18 — 30XA325,350 Air-Cooled Liquid Chiller Dimensions (cont)



BACK VIEW

Fig. 18 — 30XA325,350 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft from solid surface for airflow.
   Side — 8 ft required for surface area.
   For clearance between multiple units refer to product data in the Application Data section.
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (5/8-in. NPT male connector) and on each oil separator (3/8-in. flare connection).
4. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.

30XA UNIT	CGx	CGy
327	177.11 [4499]	42.92 [1090]
352	165.55 [4484]	42.92 [1090]

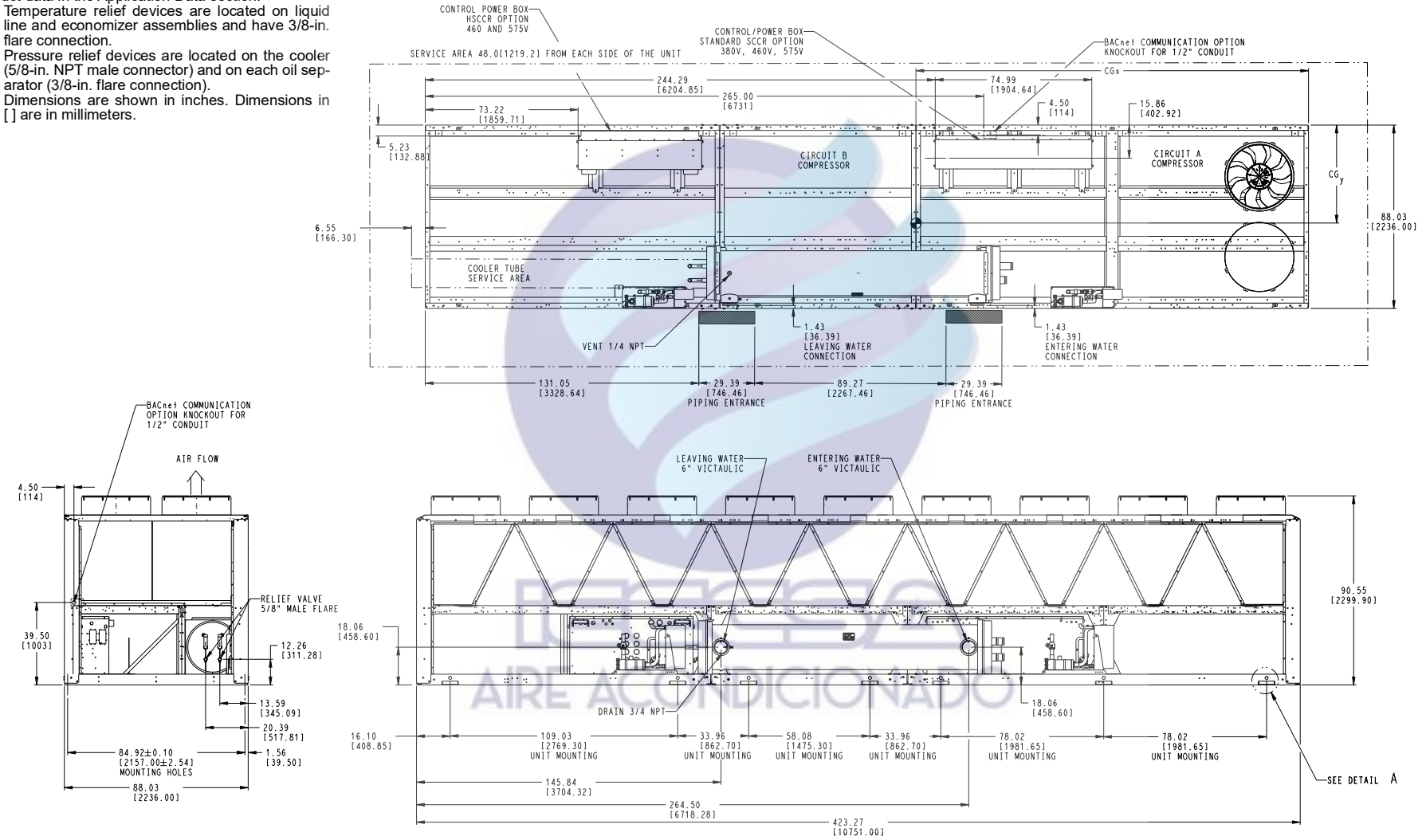


Fig. 19 — 30XA327,352 Air-Cooled Liquid Chiller Dimensions

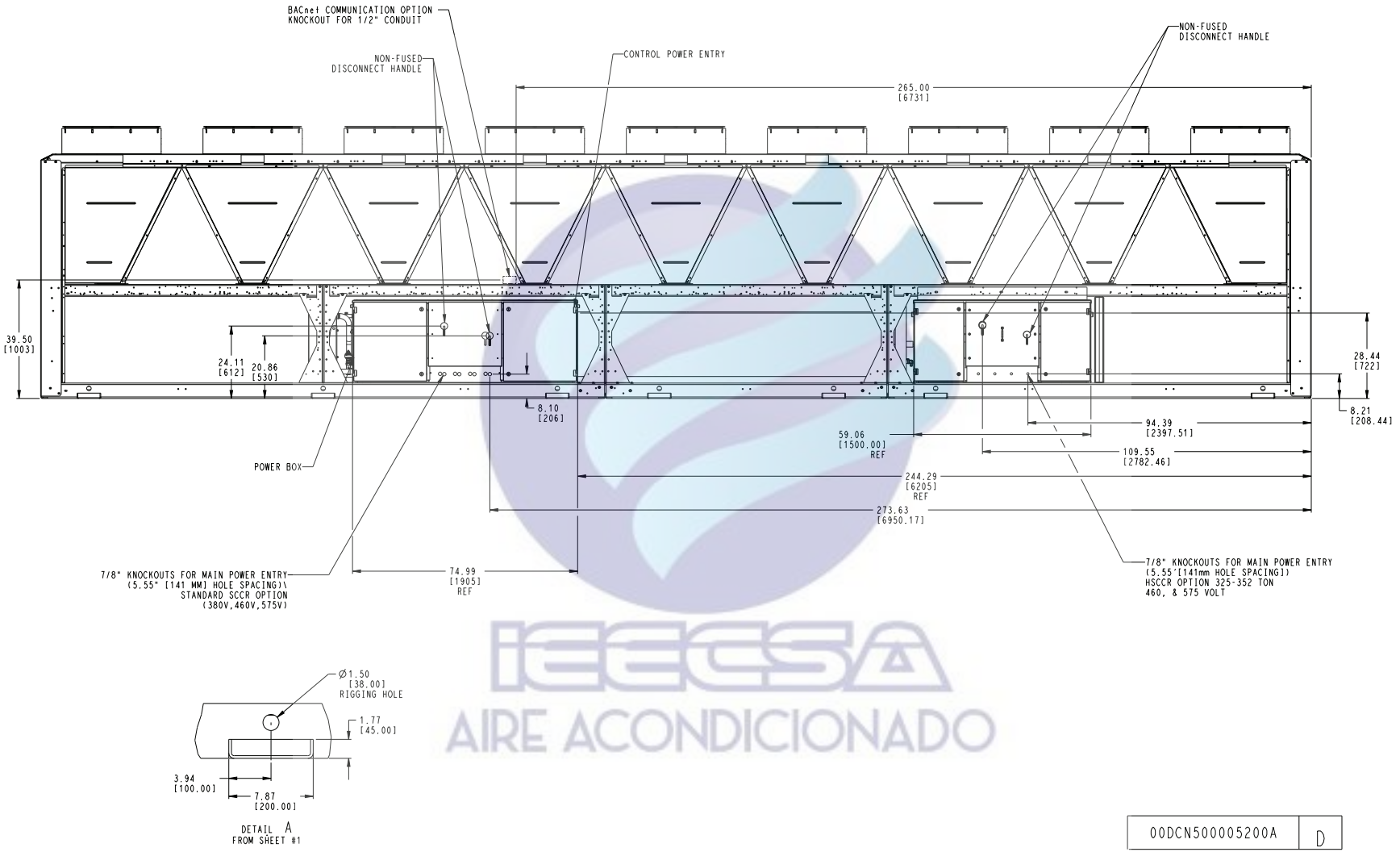
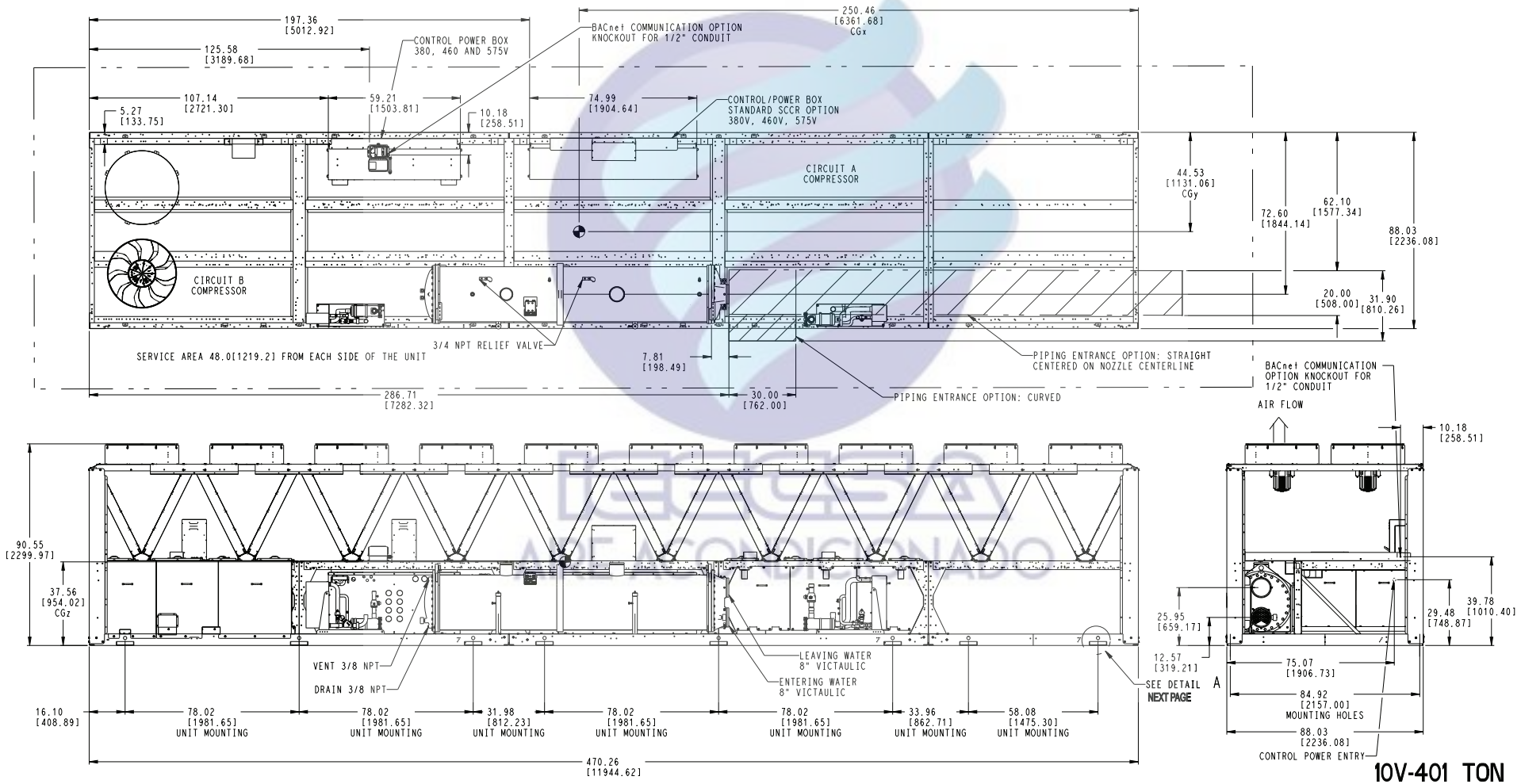


Fig. 19 — 30XA327,352 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft (1.8 m) from solid surface for airflow.
   Side — 8 ft (2.4 m) required for coil service area.
   For clearance between multiple units refer to Product Data
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (3/4-in. NPT male connector) and on each oil separator (3/8-in. flare connector).
4. 3/8-in. NPT vents and drains are located in each cooler head at each end of cooler.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.
6. ⌖ symbol denotes center of gravity.



DATE	SUPERCEDES			REV
04/14/16	-	30XA 401 AIR COOLED CHILLER	00DCN500005300A	D

Fig. 20 — 30XA401 Air-Cooled Liquid Chiller Dimensions (See Note 4)

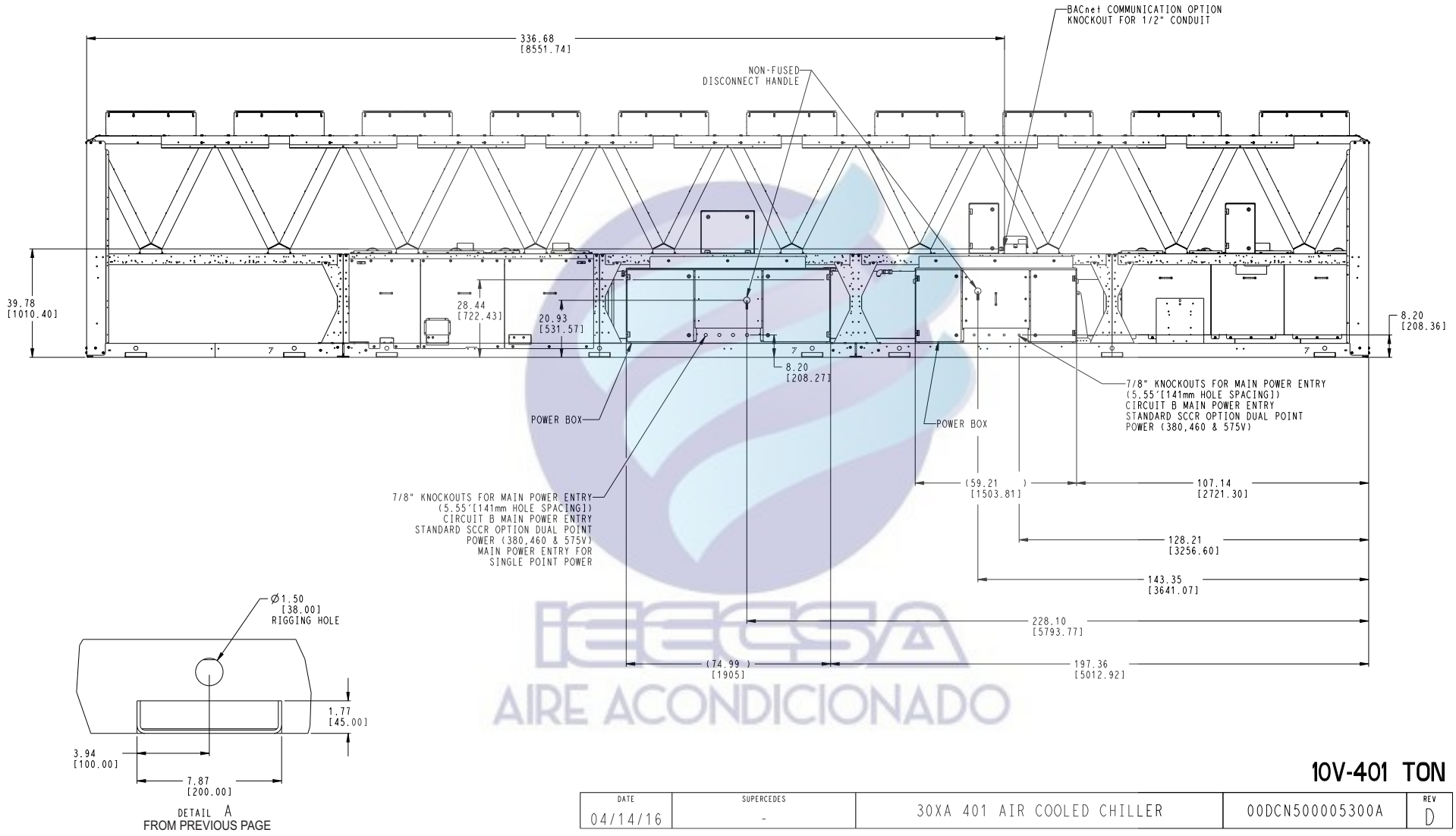


Fig. 20 — 30XA401 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft (1.8 m) from solid surface for airflow.
   Side — 8 ft (2.4 m) required for coil service area.
   For clearance between multiple units refer to Product Data
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (3/4-in. NPT male connector) and on each oil separator (3/8-in. flare connector).
4. 3/8-in. NPT vents and drains are located in each cooler head at each end of cooler.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.
6. ⊕ symbol denotes center of gravity.

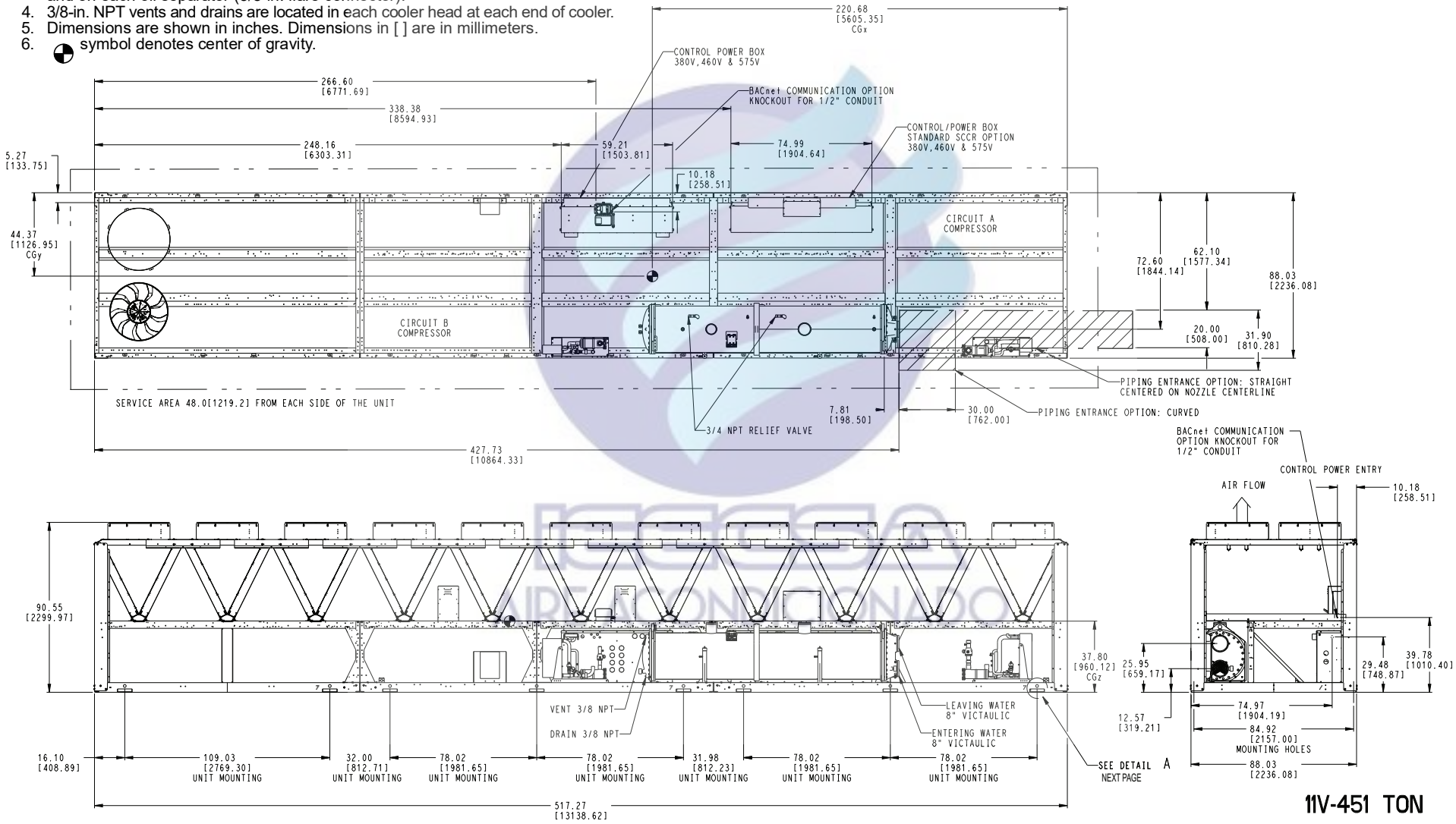


Fig. 21 — 30XA451 Air-Cooled Liquid Chiller Dimensions

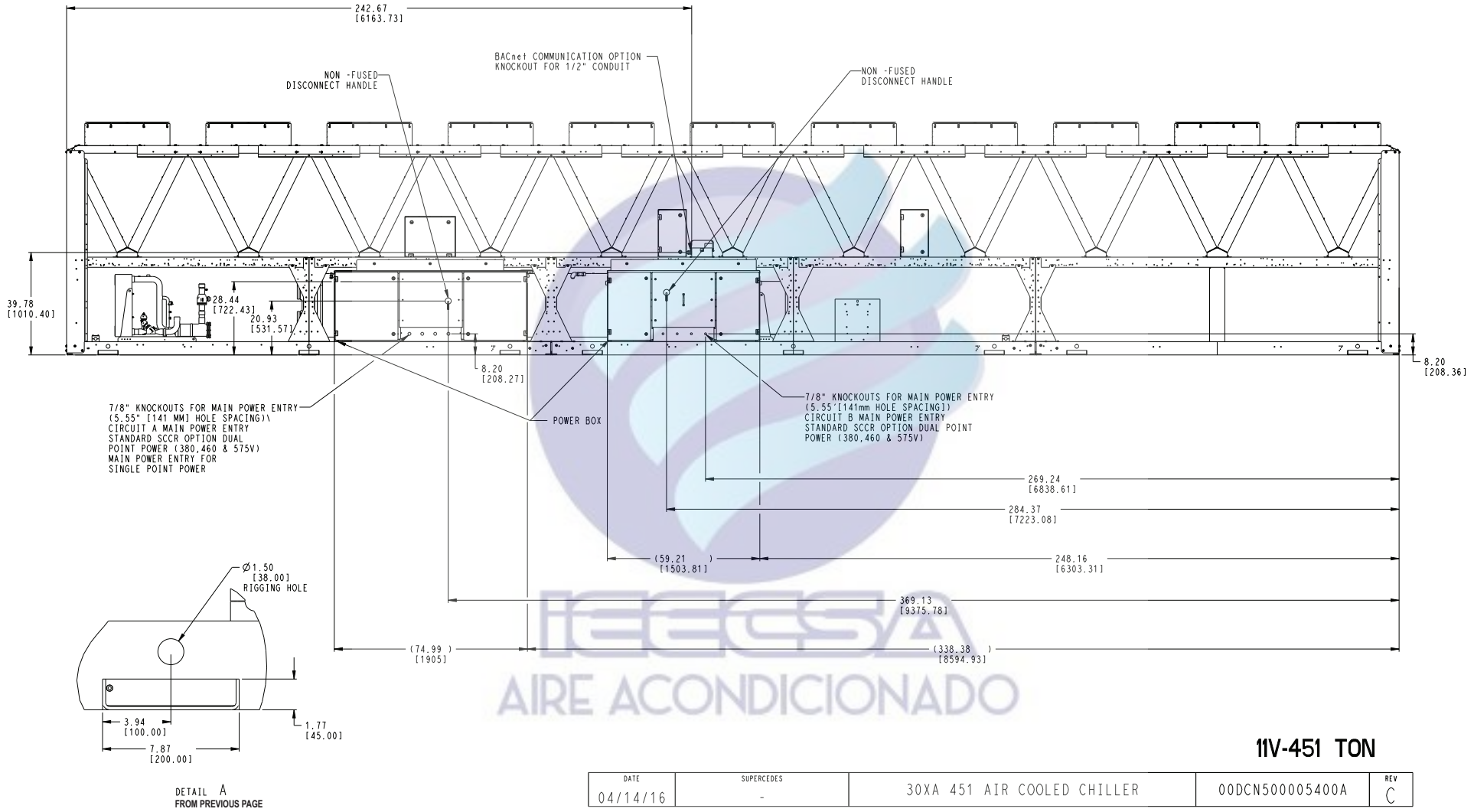
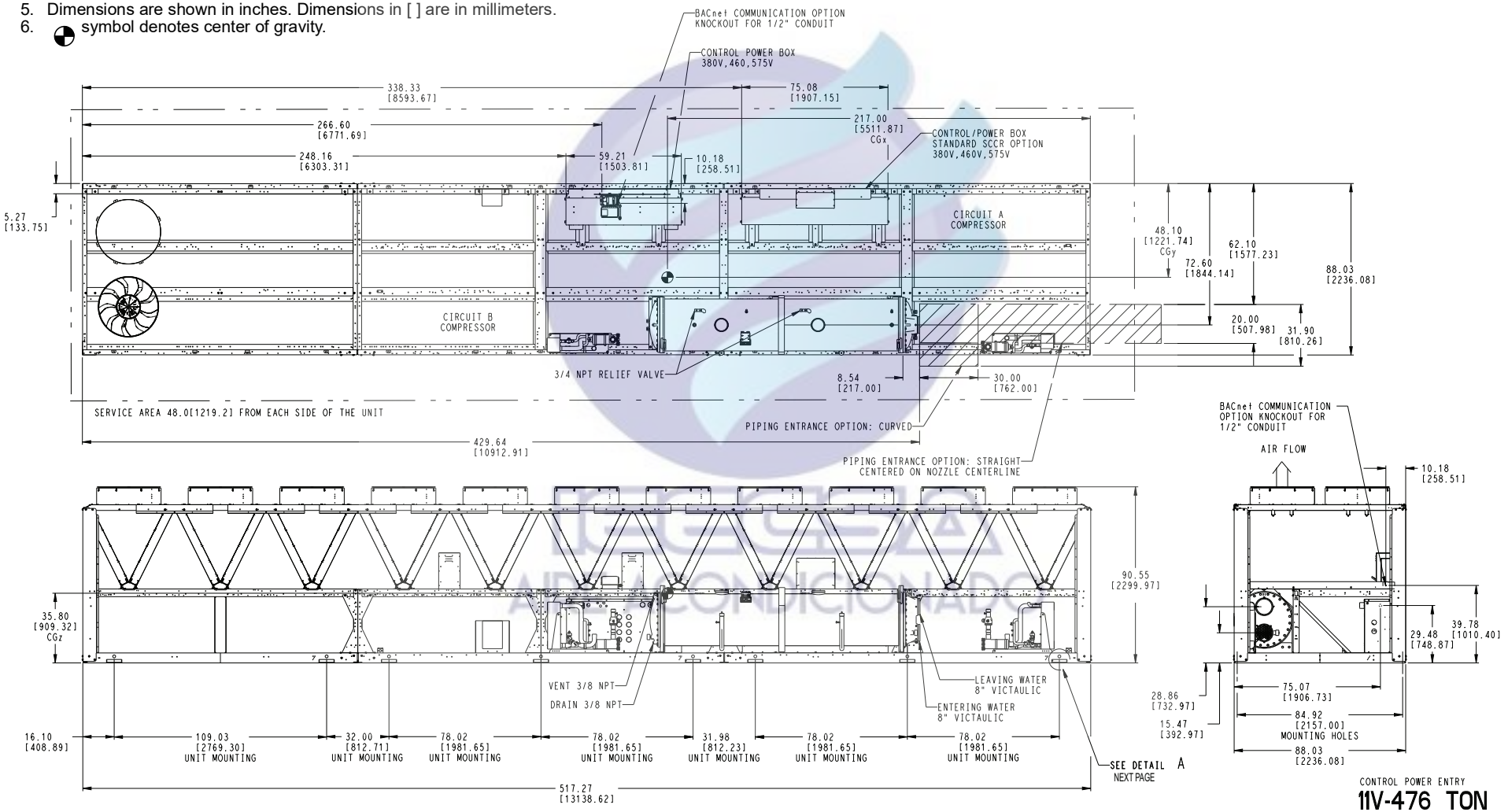


Fig. 21 — 30XA451 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft (1.8 m) from solid surface for airflow.
   Side — 8 ft (2.4 m) required for coil service area.
   For clearance between multiple units refer to Product Data
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (3/4-in. NPT male connector) and on each oil separator (3/8-in. flare connector).
4. 3/8-in. NPT vents and drains are located in each cooler head at each end of cooler.
5. Dimensions are shown in inches. Dimensions in [ ] are in millimeters.
6. ⊕ symbol denotes center of gravity.



DATE	SUPERCEDES		
04/14/16	-	30XA 476 AIR COOLED CHILLER	00DCN500005500A	REV C

Fig. 22 — 30XA476 Air-Cooled Liquid Chiller Dimensions

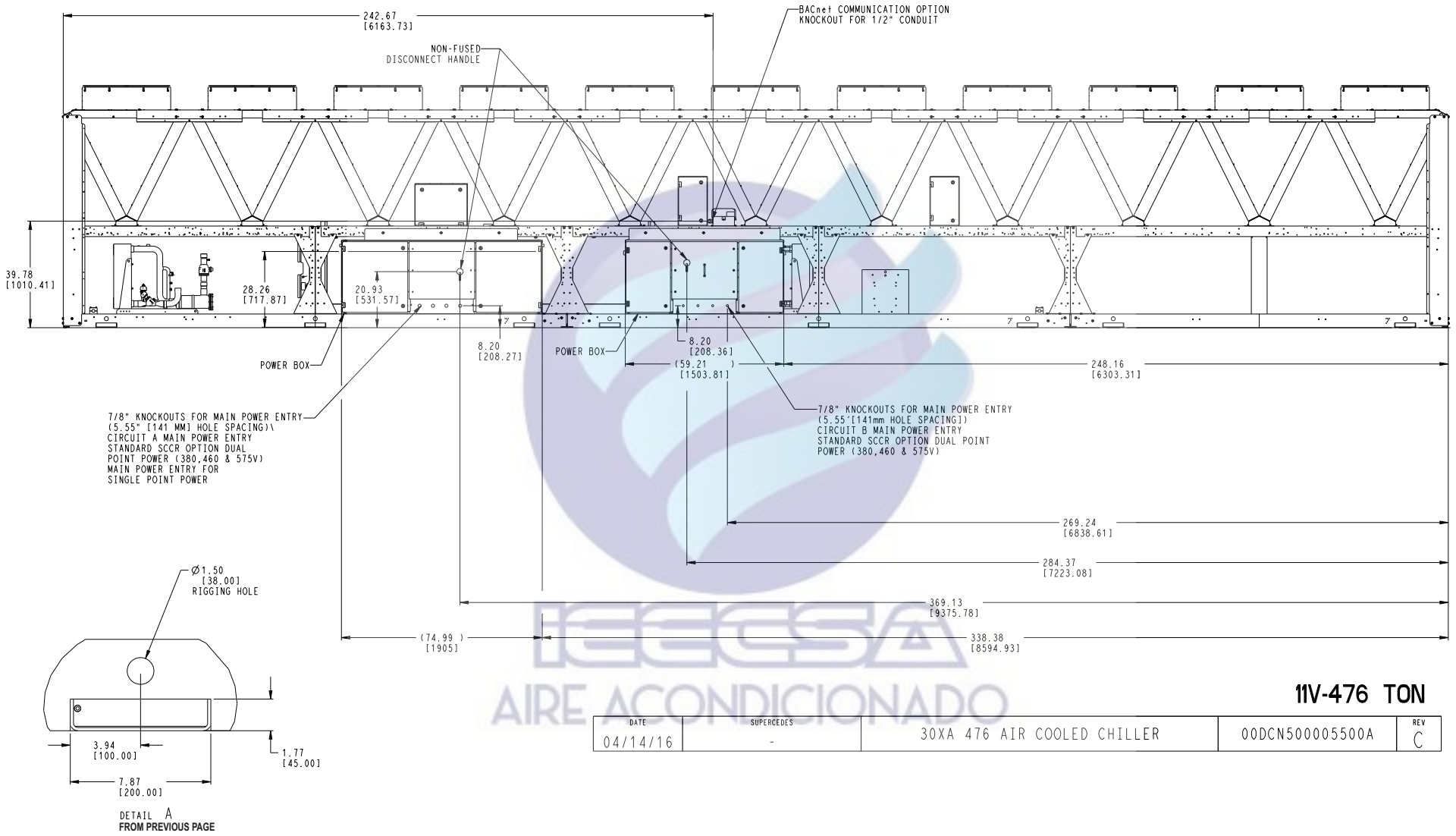
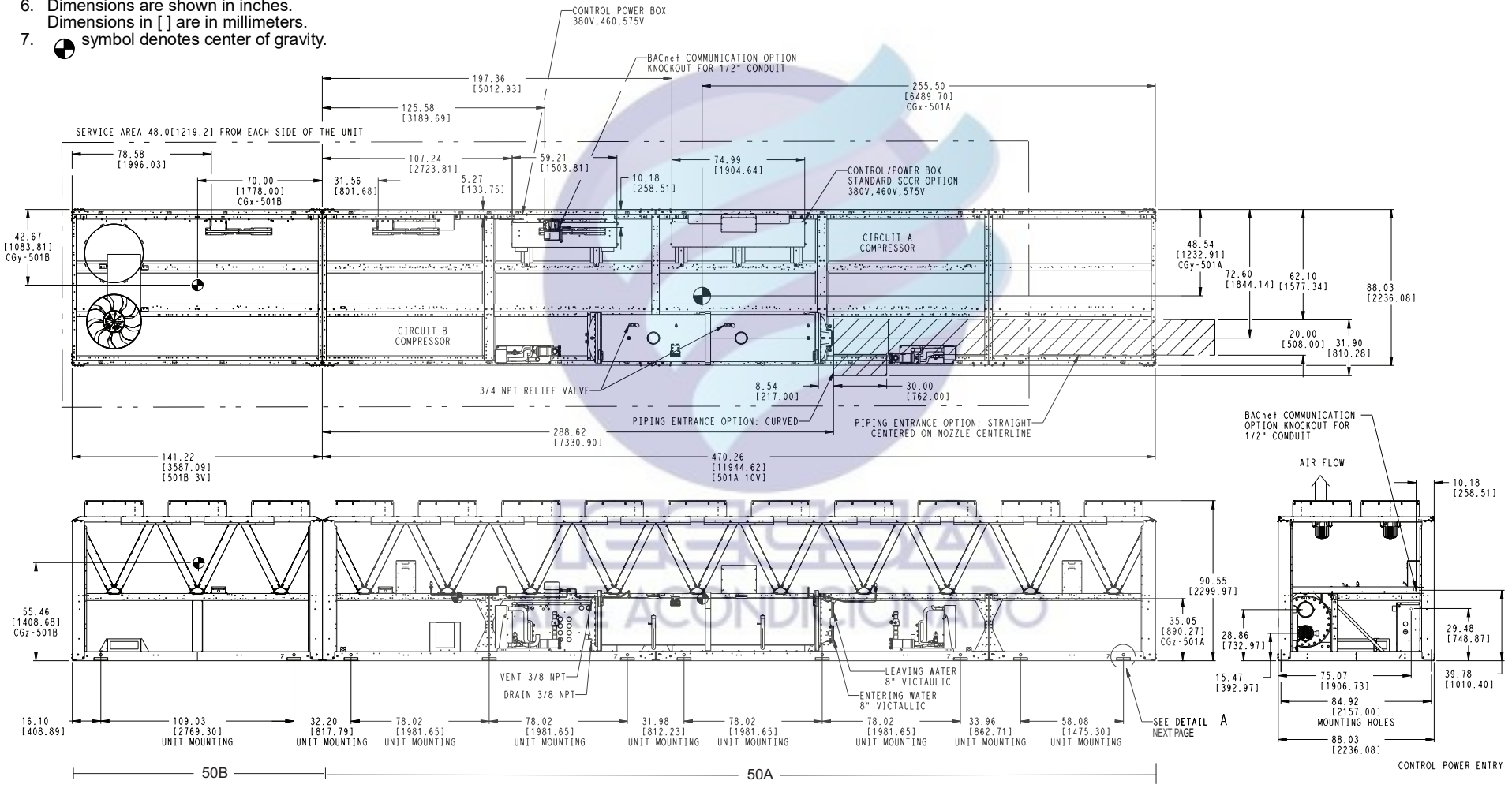


Fig. 22 — 30XA476 Air-Cooled Liquid Chiller Dimensions (cont)

NOTES:

1. Unit must have clearances as follows:
   Top — Do not restrict
   Sides and End — 6 ft (1.8 m) from solid surface for airflow.
   Side — 8 ft (2.4 m) required for coil service area.
   For clearance between multiple units refer to Product Data
2. Temperature relief devices are located on liquid line and economizer assemblies and have 3/8-in. flare connection.
3. Pressure relief devices are located on the cooler (3/4-in. NPT male connector) and on each oil separator (3/8-in. flare connector).
4. 3/8-in. NPT vents and drains are located in each cooler head at each end of cooler.
5. 50A and 50B modules to be shipped separately.
6. Dimensions are shown in inches.
   Dimensions in [ ] are in millimeters.
7. ◓ symbol denotes center of gravity.



10V & 3V-501 TON

DATE	SUPERCEDES			REV
04/14/16	-	30XA 501 AIR COOLED CHILLER	00DCN500005600A	C

Fig. 23 — 30XA501 (50A and 50B Modules) Air-Cooled Liquid Chiller Dimensions

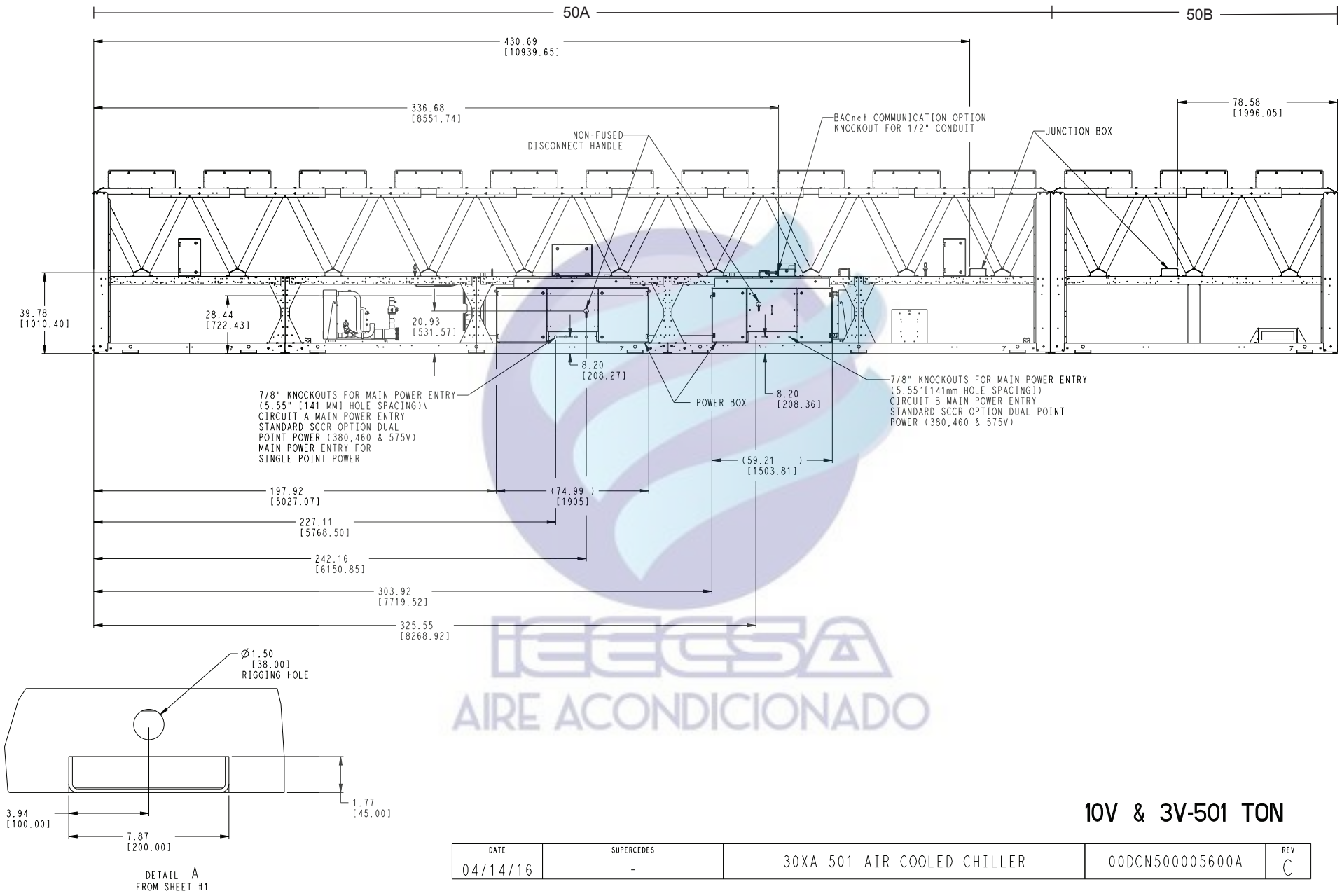


Fig. 23 — 30XA501 (50A and 50B Modules) Air-Cooled Liquid Chiller Dimensions (cont)

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS				
	A	B	C	D	Total
080	1947	1673	1670	1943	7234
082	1989	1709	1706	1985	7391

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS						
	A	B	C	D	E	F	Total
090	1201	2043	750	951	1983	1199	8127
092	1219	2074	761	965	2013	1217	8251
100	1226	2098	780	981	2038	1224	8348
102	1244	2129	792	996	2068	1242	8472
110	1239	2136	798	1006	2075	1229	8483
112	1274	2196	820	1034	2133	1263	8720
120	1272	2174	800	1007	2106	1263	8622
122	1303	2227	819	1032	2157	1294	8832

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS								
	A	B	C	D	E	F	G	H	Total
140	1897	1444	864	1181	1217	883	1584	1699	10,768
142	1977	1505	901	1231	1269	920	1651	1771	11,225
160	1949	1469	878	1206	1246	899	1603	1750	11,000
162	2024	1526	912	1253	1294	934	1665	1818	11,426

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS										
	A	B	C	D	E	F	G	H	I	J	Total
180	905	1484	1164	1849	1187	1224	1868	840	1289	888	12,699
182	930	1524	1196	1899	1219	1257	1919	863	1324	912	13,044
200	909	1499	1188	1870	1192	1232	1879	848	1299	893	12,810
202	930	1534	1216	1914	1220	1261	1923	868	1330	914	13,112

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS												
	A	B	C	D	E	F	G	H	I	J	K	L	Total
220	813	1196	1592	1498	828	1216	1259	848	1363	1064	1237	832	13,748
222	833	1226	1632	1535	849	1246	1290	869	1397	1091	1268	853	14,092
240	829	1218	1617	1520	830	1218	1261	850	1371	1073	1260	849	13,897
242	849	1248	1657	1558	851	1248	1292	871	1405	1100	1291	870	14,241
260	495	1431	1630	763	2465	1013	1528	2380	800	1333	1386	495	15,720
262	501	1449	1651	773	2497	1026	1548	2411	810	1350	1404	501	15,922
280	497	1451	1663	771	2497	1015	1530	2390	803	1358	1406	497	15,878
282	503	1469	1684	781	2529	1028	1549	2420	813	1375	1424	503	16,080
300	502	1465	1686	786	2568	1027	1557	2454	811	1367	1417	502	16,141
302	517	1508	1735	809	2643	1057	1602	2526	835	1407	1458	517	16,613

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Total
325	742	742	978	1531	783	2546	1067	1563	2334	804	1646	1247	742	742	17,467
327	762	762	1004	1572	804	2615	1096	1605	2397	826	1690	1281	762	762	17,939
350	745	745	982	1546	792	2598	1077	1589	2386	808	1651	1249	745	745	17,659
352	765	765	1008	1587	813	2667	1106	1631	2450	830	1695	1282	765	765	18,131

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSER COILS																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Total
401	1471	1827	1921	2057	2134	1154	579	579	579	579	1950	1902	971	971	1147	964	20,785
451	524	683	3121	3060	2130	858	978	1085	1705	1974	762	1017	1193	1281	842	524	21,737
476	725	1000	3556	4035	2626	913	998	1105	1720	1988	784	1127	1339	1446	1214	786	25,362
50A	1639	2120	2616	2829	2616	1237	826	610	610	610	785	2070	2340	1126	1448	915	24,397
50B	631	812	631	—	—	—	—	—	—	—	—	—	—	—	—	—	3,006

LEGEND

MCHX — Microchannel Heat Exchanger

NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 24 — Unit Mounting Weights (Units with MCHX Condensers)

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS				
	A	B	C	D	Total
080	883	759	758	882	3281
082	902	775	774	900	3353

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS						
	A	B	C	D	E	F	Total
090	545	927	340	431	899	544	3686
092	553	941	345	438	913	552	3742
100	556	952	354	445	924	555	3786
102	564	966	359	452	938	563	3843
110	562	969	362	456	941	558	3848
112	578	996	372	469	968	573	3955
120	577	986	363	457	955	573	3911
122	591	1010	372	468	979	587	4006

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS								
	A	B	C	D	E	F	G	H	Total
140	860	655	392	536	552	401	719	771	4884
142	897	683	409	558	575	418	749	803	5091
160	884	666	398	547	565	408	727	794	4990
162	918	692	414	568	587	424	755	825	5183

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS										
	A	B	C	D	E	F	G	H	I	J	Total
180	410	673	528	839	538	555	847	381	584	403	5760
182	422	691	542	861	553	570	870	391	601	414	5917
200	412	680	539	848	541	559	852	385	589	405	5811
202	422	696	552	868	553	572	872	394	603	415	5948

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS												
	A	B	C	D	E	F	G	H	I	J	K	L	Total
220	369	542	722	680	376	552	571	385	618	483	561	378	6236
222	378	556	740	696	385	565	585	394	634	495	575	387	6392
240	376	552	734	690	377	553	572	386	622	487	572	385	6304
242	385	566	752	707	386	566	586	395	637	499	586	395	6460
260	225	649	740	346	1118	460	693	1079	363	605	629	225	7130
262	227	657	749	351	1132	465	702	1093	368	612	637	227	7222
280	225	658	754	350	1133	461	694	1084	364	616	638	225	7202
282	228	667	764	354	1147	466	703	1098	369	624	646	228	7294
300	228	664	765	357	1165	466	706	1113	368	620	643	228	7322
302	234	684	787	367	1199	479	727	1146	379	638	662	234	7535

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Total
325	337	337	444	695	355	1155	484	709	1058	365	746	565	337	337	7923
327	346	346	456	713	365	1186	497	728	1087	375	767	581	346	346	8137
350	338	338	446	701	359	1179	488	721	1082	367	749	567	338	338	8010
352	347	347	457	720	369	1210	502	740	1111	376	769	582	347	347	8224

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSER COILS																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Total
401	667	829	871	933	968	523	262	262	262	262	885	863	440	440	520	437	9 424
451	238	310	1416	1388	966	389	443	492	773	895	346	461	541	581	382	238	9 859
476	329	418	1488	1689	1099	382	418	463	720	832	328	472	561	605	508	329	10 641
50A	683	884	1091	1180	1091	516	345	255	255	255	328	863	976	470	604	381	10 177
50B	286	368	423	286	—	—	—	—	—	—	—	—	—	—	—	—	1 364

LEGEND

MCHX — Microchannel Heat Exchanger

NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 24 — Unit Mounting Weights (Units with MCHX Condensers) (cont)

LEGEND

MCHX — Microchannel Heat Exchanger

NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 24 — Unit Mounting Weights (Units with MCHX Condensers) (cont)

SINGLE PUMP UNITS — ENGLISH

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSERS						
	A	B	C	D	E	F	Total
090	1201	2754	1087	900	1944	1199	9085
092	1217	2791	1102	912	1970	1215	9209
100	1226	2814	1123	924	1995	1224	9306
102	1242	2851	1138	936	2022	1240	9430
110	1239	2855	1145	945	2027	1229	9441
112	1270	2927	1174	969	2078	1260	9678
120	1272	2893	1147	947	2059	1263	9580
122	1300	2956	1172	968	2104	1291	9790

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSERS								
	A	B	C	D	E	F	G	H	Total
140	1897	1444	1609	1606	1078	810	1584	1699	11,726
142	1971	1500	1672	1669	1120	842	1646	1765	12,183
160	1949	1469	1626	1635	1103	824	1603	1750	11,958
162	2018	1521	1684	1693	1142	853	1660	1812	12,384

SINGLE PUMP UNITS — SI

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSERS						
	A	B	C	D	E	F	Total
090	545	1249	493	408	882	544	4121
092	552	1266	500	414	894	551	4177
100	556	1276	510	419	905	555	4221
102	563	1293	516	425	917	563	4277
110	562	1295	519	429	920	558	4282
112	576	1328	532	439	943	571	4390
120	577	1312	520	430	934	573	4346
122	590	1341	532	439	954	585	4441

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSERS								
	A	B	C	D	E	F	G	H	Total
140	860	655	730	728	489	367	719	771	5319
142	894	680	758	757	508	382	746	801	5526
160	884	666	737	742	500	374	727	794	5424
162	916	690	764	768	518	387	753	822	5617

LEGEND

MCHX — Microchannel Heat Exchanger

Fig. 24 — Unit Mounting Weights (Units with MCHX Condensers) (cont)

DUAL PUMP UNITS — ENGLISH

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSERS						
	A	B	C	D	E	F	Total
090	1201	2962	1176	900	1944	1199	9,382
092	1217	3001	1192	912	1970	1215	9,506
100	1226	3022	1212	924	1995	1224	9,603
102	1242	3061	1228	936	2021	1240	9,727
110	1239	3064	1234	945	2027	1229	9,738
112	1269	3139	1264	968	2076	1259	9,975
120	1272	3101	1236	947	2059	1263	9,877
122	1299	3167	1262	967	2103	1290	10,087

30XA UNIT SIZE	MOUNTING WEIGHT (lb) MCHX CONDENSERS								
	A	B	C	D	E	F	G	H	Total
140	1897	1444	1818	1694	1078	810	1584	1699	12,023
142	1969	1499	1887	1758	1119	841	1644	1764	12,480
160	1949	1469	1834	1724	1103	824	1603	1750	12,255
162	2017	1520	1898	1784	1141	853	1659	1811	12,681

DUAL PUMP UNITS — SI

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSERS						
	A	B	C	D	E	F	Total
090	545	1343	533	408	882	544	4255
092	552	1361	540	414	893	551	4312
100	556	1371	550	419	905	555	4356
102	563	1388	557	425	917	562	4412
110	562	1390	560	429	920	558	4417
112	576	1424	573	439	942	571	4525
120	577	1407	560	430	934	573	4480
122	589	1436	573	439	954	585	4575

30XA UNIT SIZE	MOUNTING WEIGHT (kg) MCHX CONDENSERS								
	A	B	C	D	E	F	G	H	Total
140	860	655	825	769	489	367	719	771	5454
142	893	680	856	798	508	381	746	800	5661
160	884	666	832	782	500	374	727	794	5559
162	915	689	861	809	518	387	752	821	5752

LEGEND

MCHX — Microchannel Heat Exchanger

Fig. 24 — Unit Mounting Weights (Units with MCHX Condensers) (cont)

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*				
	A	B	C	D	Total
080	2059	1785	1778	2051	7674
082	2101	1822	1814	2093	7831

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*						
	A	B	C	D	E	F	Total
090	1273	2188	822	1023	2127	1271	8704
092	1291	2219	834	1038	2157	1289	8828
100	1299	2244	853	1054	2184	1297	8931
102	1317	2275	865	1069	2214	1315	9055
110	1312	2284	872	1079	2222	1303	9071
112	1346	2344	895	1107	2280	1337	9308
120	1346	2322	874	1082	2255	1337	9216
122	1377	2375	894	1107	2306	1367	9426

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*								
	A	B	C	D	E	F	G	H	Total
140	2007	1554	938	1254	1291	957	1695	1809	11,505
142	2087	1616	975	1304	1342	995	1762	1881	11,962
160	2061	1581	953	1281	1321	974	1715	1862	11,748
162	2136	1638	988	1327	1369	1009	1777	1930	12,174

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*										
	A	B	C	D	E	F	G	H	I	J	Total
180	979	1558	1239	1998	1261	1298	2016	915	1363	962	13,590
182	1004	1598	1270	2049	1293	1331	2067	938	1398	986	13,935
200	984	1574	1263	2020	1267	1308	2029	923	1375	968	13,712
202	106	1609	1291	2065	1295	1337	2074	943	1405	989	14,014

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*												
	A	B	C	D	E	F	G	H	I	J	K	L	Total
220	883	1266	1697	1603	898	1286	1329	918	1468	1169	1307	902	14,727
222	904	1296	1737	1640	919	1316	1360	939	1502	1196	1337	923	15,071
240	900	1288	1723	1626	901	1289	1331	921	1477	1179	1331	920	14,887
242	921	1318	1763	1664	922	1319	1362	942	1511	1206	1362	941	15,231
260	566	1572	1701	834	2607	1084	1599	2521	871	1404	1528	566	16,853
262	573	1591	1721	844	2638	1097	1618	2551	881	1421	1546	573	17,055
280	569	1594	1734	843	2640	1087	1601	2533	875	1429	1549	569	17,022
282	576	1613	1755	853	2671	1100	1620	2563	885	1446	1567	576	17,224
300	578	1617	1762	862	2720	1103	1633	2607	887	1444	1570	578	17,362
302	594	1661	1810	885	2794	1133	1677	2678	911	1483	1613	594	17,834

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Total
325	856	856	1054	1607	859	2697	1143	1639	2485	880	1722	1322	856	856	18,834
327	877	877	1080	1647	881	2765	1172	1680	2547	902	1765	1355	877	877	19,306
350	860	860	1059	1623	869	2752	1153	1666	2539	885	1727	1326	860	860	19,040
352	881	881	1085	1663	891	2820	1182	1707	2602	907	1770	1359	881	881	19,512

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Total
401	1599	1960	2056	2194	2272	1278	667	667	667	667	2085	2036	1092	1092	1271	1085	22,688
451	597	758	3260	3198	2254	962	1084	1193	1822	2095	865	1124	1303	1392	919	597	23,423
476	916	1133	3709	4195	2767	1032	1118	1227	1850	2121	901	1248	1464	1571	1350	916	27,518
50A	1767	2255	2757	2973	2757	1360	917	699	699	699	903	2204	2478	1248	1574	1034	26,324
50B	747	961	1103	747	—	—	—	—	—	—	—	—	—	—	—	—	3,558

LEGEND

Al — Aluminum
Cu — Copper

* Condenser: Aluminum Fins/Copper Tubing.

NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 25 — Unit Mounting Weights (Units with Al/Cu Condensers)

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*				
	A	B	C	D	Total
080	934	810	807	930	3481
082	953	826	823	949	3552

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*						
	A	B	C	D	E	F	Total
090	578	992	373	464	965	576	3948
092	586	1007	378	471	979	585	4004
100	589	1018	387	478	991	588	4051
102	597	1032	392	485	1004	596	4107
110	595	1036	396	489	1008	591	4115
112	611	1063	406	502	1034	606	4222
120	611	1053	397	491	1023	607	4181
122	624	1077	405	502	1046	620	4276

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*								
	A	B	C	D	E	F	G	H	Total
140	910	705	425	569	585	434	769	821	5219
142	946	733	442	591	609	451	799	853	5426
160	935	717	432	581	599	442	778	845	5329
162	969	743	448	602	621	458	806	875	5522

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*										
	A	B	C	D	E	F	G	H	I	J	Total
180	444	707	562	906	572	589	915	415	618	436	6164
182	455	725	576	929	586	604	938	426	634	447	6321
200	446	714	573	916	575	593	920	419	624	439	6220
202	456	730	586	936	587	606	941	428	637	449	6357

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*												
	A	B	C	D	E	F	G	H	I	J	K	L	Total
220	401	574	770	727	407	583	603	416	666	530	593	409	6680
222	410	588	788	744	417	597	617	426	681	543	607	419	6836
240	408	584	782	738	409	585	604	418	670	535	604	417	6753
242	418	598	800	755	418	598	618	427	685	547	618	427	6909
260	257	713	772	378	1182	492	725	1144	395	637	693	257	7644
262	260	722	781	383	1197	498	734	1157	400	644	701	260	7736
280	258	723	787	382	1197	493	726	1149	397	648	703	258	7721
282	261	732	796	387	1212	499	735	1163	402	656	711	261	7813
300	262	734	799	391	1234	501	741	1182	402	655	712	262	7876
302	269	753	821	402	1267	514	761	1215	413	673	731	269	8089

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Total
325	388	388	478	729	390	1224	518	744	1127	399	781	600	388	388	8543
327	398	398	490	747	399	1254	531	762	1155	409	801	615	398	398	8757
350	390	390	480	736	394	1248	523	756	1152	401	784	601	390	390	8636
352	400	400	492	754	404	1279	536	774	1180	411	803	616	400	400	8850

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Total
401	725	889	933	995	1030	580	303	303	303	303	946	924	495	495	576	492	10 292
451	271	344	1479	1450	1022	436	492	541	826	950	393	510	591	631	417	271	10 624
476	416	514	1682	1903	1255	468	507	556	839	962	409	566	664	713	612	416	12 482
50A	802	1023	1251	1349	1251	617	416	317	317	317	410	1000	1124	566	714	469	11 943
50B	339	436	500	339	—	—	—		—	—	—	—	—	—	—	—	1 614

LEGEND

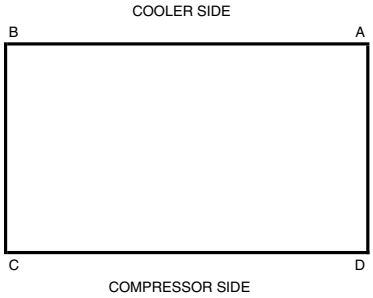
Al — Aluminum
Cu — Copper

*Condenser: Aluminum Fins/Copper Tubing.

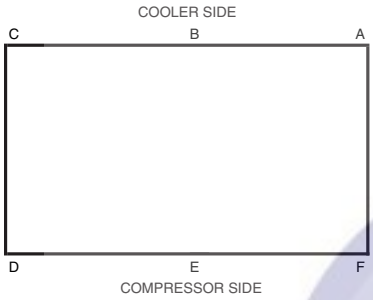
NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 25 — Unit Mounting Weights (Units with Al/Cu Condensers) (cont)

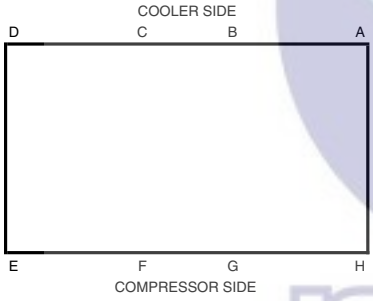
30XA080,082



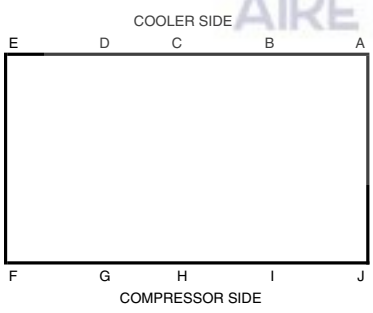
30XA090-122



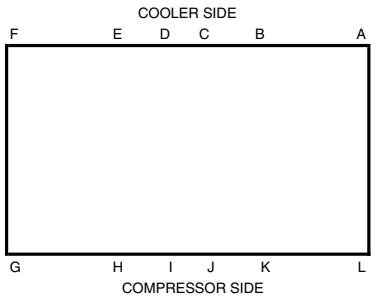
30XA140-162



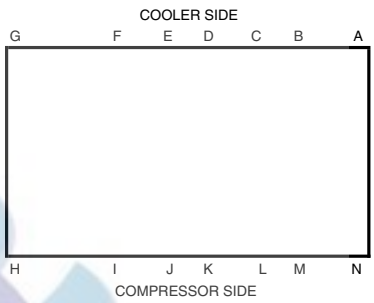
30XA180-202



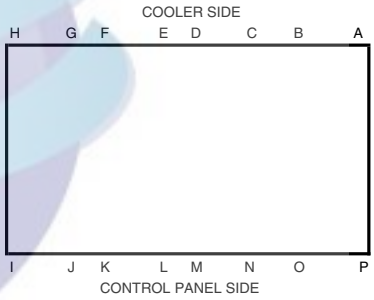
30XA220-302



30XA325-352



30XA401,451,476,50A



30XA50B

NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 25 — Unit Mounting Weights (Units with Al/Cu Condensers) (cont)

SINGLE PUMP UNITS — ENGLISH

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*						
	A	B	C	D	E	F	Total
090	1273	2898	1160	972	2089	1271	9,662
092	1289	2935	1175	984	2116	1287	9,786
100	1299	2959	1196	997	2140	1297	9,889
102	1315	2996	1211	1009	2167	1313	10,013
110	1312	3002	1219	1019	2175	1303	10,029
112	1343	3073	1248	1043	2226	1334	10,266
120	1346	3041	1221	1021	2208	1337	10,174
122	1374	3104	1246	1042	2254	1365	10,384

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*								
	A	B	C	D	E	F	G	H	Total
140	2007	1554	1683	1679	1152	883	1695	1809	12,463
142	2081	1611	1745	1740	1194	915	1757	1875	12,920
160	2061	1581	1701	1710	1178	898	1715	1862	12,706
162	2130	1634	1758	1767	1218	928	1773	1924	13,132

SINGLE PUMP UNITS — SI

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*						
	A	B	C	D	E	F	Total
090	578	1314	526	441	947	576	4383
092	585	1331	533	447	960	584	4439
100	589	1342	543	452	971	588	4485
102	597	1359	549	458	983	596	4542
110	595	1362	553	462	986	591	4549
112	609	1394	566	473	1010	605	4657
120	611	1379	554	463	1001	607	4615
122	623	1408	565	473	1022	619	4710

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*								
	A	B	C	D	E	F	G	H	Total
140	910	705	763	762	523	401	769	821	5653
142	944	731	791	789	542	415	797	851	5860
160	935	717	771	776	534	408	778	845	5763
162	966	741	797	802	552	421	804	873	5957

LEGEND

Al — Aluminum
Cu — Copper

* Condenser: Aluminum Fins/Copper Tubing.

Fig. 25 — Unit Mounting Weights (Units with Al/Cu Condensers) (cont)

DUAL PUMP UNITS — ENGLISH

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Al/Cu*								
	A	B	C	D	E	F	G	H	Total
090	1273	3106	1248	972	2089	1271			9,959
092	1289	3145	1264	984	2115	1287			10,083
100	1299	3168	1285	997	2140	1297			10,186
102	1315	3206	1301	1009	2166	1313			10,310
110	1312	3211	1307	1019	2175	1303			10,326
112	1342	3285	1337	1042	2225	1333			10,563
120	1346	3249	1310	1021	2208	1337			10,471
122	1373	3314	1336	1041	2252	1364			10,681
140	2007	1554	1891	1768	1152	883	1695	1809	12,760
142	2079	1610	1959	1831	1193	915	1756	1874	13,217
160	2061	1581	1909	1799	1178	898	1715	1862	13,003
162	2129	1633	1972	1858	1217	927	1771	1923	13,429

DUAL PUMP UNITS — SI

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Al/Cu*								
	A	B	C	D	E	F	G	H	Total
090	578	1409	566	441	947	576			4517
092	585	1426	573	446	959	584			4573
100	589	1437	583	452	971	588			4620
102	596	1454	590	458	982	595			4676
110	595	1456	593	462	986	591			4684
112	609	1490	606	473	1009	605			4791
120	611	1474	594	463	1001	607			4750
122	623	1503	606	472	1022	619			4845
140	910	705	858	802	523	401	769	821	5788
142	943	730	888	831	541	415	796	850	5995
160	935	717	866	816	534	408	778	845	5898
162	965	741	894	843	552	421	803	872	6091

LEGEND

Al — Aluminum
Cu — Copper

*Condenser: Aluminum Fins/Copper Tubing.

Fig. 25 — Unit Mounting Weights (Units with Al/Cu Condensers) (cont)

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*				
	A	B	C	D	Total
080	2244	1970	1956	2228	8398
082	2286	2007	1993	2270	8555

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*						
	A	B	C	D	E	F	Total
090	1394	2429	943	1144	2368	1392	9,669
092	1412	2460	955	1159	2398	1410	9,793
100	1420	2485	974	1174	2425	1418	9,896
102	1438	2516	986	1189	2455	1436	10,020
110	1433	2525	993	1200	2463	1424	10,036
112	1467	2585	1016	1228	2521	1458	10,273
120	1467	2563	995	1202	2496	1458	10,181
122	1497	2616	1016	1227	2547	1488	10,391

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*								
	A	B	C	D	E	F	G	H	Total
140	2188	1735	1058	1375	1411	1078	1876	1990	12,711
142	2267	1797	1096	1424	1462	1117	1943	2061	13,168
160	2242	1762	1074	1401	1442	1095	1896	2043	12,954
162	2316	1820	1109	1447	1489	1131	1958	2110	13,380

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*										
	A	B	C	D	E	F	G	H	I	J	Total
180	1099	1679	1359	2239	1382	1419	2258	1035	1483	1083	15,037
182	1124	1717	1390	2290	1414	1452	2310	1059	1517	1108	15,382
200	1105	1695	1384	2261	1388	1428	2271	1044	1495	1089	15,159
202	1127	1729	1412	2306	1416	1456	2316	1065	1525	1111	15,461

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*												
	A	B	C	D	E	F	G	H	I	J	K	L	Total
220	995	1378	1865	1771	1010	1398	1441	1030	1636	1337	1419	1014	16,295
222	1016	1407	1904	1808	1031	1427	1471	1052	1671	1365	1449	1035	16,639
240	1012	1400	1891	1794	1013	1401	1443	1033	1645	1347	1443	1032	16,455
242	1033	1429	1930	1831	1034	1430	1473	1055	1679	1375	1473	1054	16,799
260	679	1798	1814	947	2833	1197	1712	2748	984	1517	1754	679	18,662
262	686	1817	1834	957	2864	1210	1730	2778	995	1533	1773	686	18,864
280	682	1820	1847	956	2866	1200	1715	2759	988	1542	1775	682	18,831
282	689	1839	1867	966	2897	1213	1733	2789	999	1559	1794	689	19,033
300	699	1858	1883	983	2962	1224	1754	2848	1008	1564	1811	699	19,292
302	716	1903	1929	1007	3034	1254	1797	2918	1033	1602	1855	716	19,764

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Total
325	1037	1037	1175	1728	980	2939	1263	1760	2727	1001	1842	1443	1037	1037	21,005
327	1060	1060	1201	1767	1002	3005	1291	1800	2788	1023	1883	1475	1060	1060	21,477
350	1041	1041	1180	1743	990	2993	1274	1786	2780	1006	1848	1447	1041	1041	21,211
352	1064	1064	1206	1782	1012	3060	1302	1826	2842	1028	1889	1479	1064	1064	21,683

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Total
401	1759	2118	2213	2350	2428	1440	791	791	791	791	2242	2193	1256	1256	1433	1248	25,100
451	736	897	3424	3362	2424	1142	1263	1372	1996	2268	1046	1302	1480	1569	1057	736	26,074
476	1103	1319	3858	4341	2922	1196	1282	1390	2010	2279	1067	1412	1626	1733	1534	1103	30,175
50A	1928	2413	2913	3127	2913	1523	1040	823	823	823	1069	2363	2634	1412	1736	1199	33,020
50B	899	1156	1327	899	—	—	—	—	—	—	—	—	—	—	—	—	4,282

LEGEND

Cu — Copper

*Condenser: Copper Fins/Copper Tubing.

NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 26 — Unit Mounting Weights (Units with Cu/Cu Condensers)

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*				
	A	B	C	D	Total
080	1018	893	887	1011	3809
082	1037	910	904	1030	3881

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*						
	A	B	C	D	E	F	Total
090	632	1102	428	519	1074	631	4386
092	640	1116	433	526	1088	639	4442
100	644	1127	442	533	1100	643	4489
102	652	1141	447	539	1114	651	4545
110	650	1145	450	544	1117	646	4552
112	665	1172	461	557	1144	661	4660
120	665	1163	451	545	1132	661	4618
122	679	1187	461	556	1156	675	4713

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*								
	A	B	C	D	E	F	G	H	Total
140	992	787	480	624	640	489	851	903	5766
142	1028	815	497	646	663	507	881	935	5973
160	1017	799	487	636	654	497	860	927	5876
162	1050	826	503	656	676	513	888	957	6069

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*										
	A	B	C	D	E	F	G	H	I	J	Total
180	499	762	617	1016	627	644	1024	470	673	491	6821
182	510	779	631	1039	641	658	1048	480	688	503	6977
200	501	769	628	1026	630	648	1030	474	678	494	6876
202	511	784	640	1046	642	661	1051	483	692	504	7013

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*												
	A	B	C	D	E	F	G	H	I	J	K	L	Total
220	451	625	846	804	458	634	653	467	742	607	644	460	7391
222	461	638	864	820	468	648	667	477	758	619	657	470	7547
240	459	635	858	814	460	635	655	469	746	611	654	468	7464
242	469	648	876	831	469	649	668	478	762	624	668	478	7620
260	308	816	823	429	1285	543	777	1246	446	688	796	308	8465
262	311	824	832	434	1299	549	785	1260	451	696	804	311	8557
280	309	826	838	434	1300	544	778	1252	448	700	805	309	8542
282	313	834	847	438	1314	550	786	1265	453	707	814	313	8633
300	317	843	854	446	1343	555	796	1292	457	710	821	317	8751
302	325	863	875	457	1376	569	815	1323	468	727	842	325	8965

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Total
325	470	470	533	784	445	1333	573	798	1237	454	836	655	470	470	9528
327	481	481	545	801	455	1363	586	816	1265	464	854	669	481	481	9742
350	472	472	535	791	449	1358	578	810	1261	456	838	656	472	472	9621
352	483	483	547	808	459	1388	591	828	1289	466	857	671	483	483	9835

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Total
401	798	961	1004	1066	1101	653	359	359	359	359	1017	995	570	570	650	566	11 387
451	334	407	1553	1525	1100	518	573	622	905	1029	474	591	671	712	479	334	11 827
476	500	598	1750	1969	1325	543	582	630	912	1034	484	640	737	786	696	500	13 686
50A	815	1020	1231	1321	1231	644	440	348	348	348	452	998	1113	596	733	507	12 145
50B	408	524	602	408	—	—	—	—	—	—	—	—	—	—	—	—	1 942

LEGEND

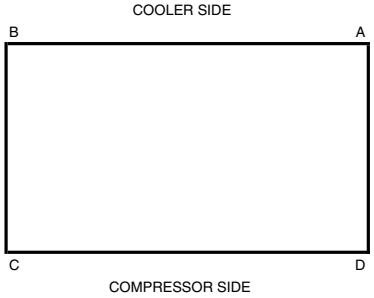
Cu — Copper

*Condenser: Copper Fins/Copper Tubing.

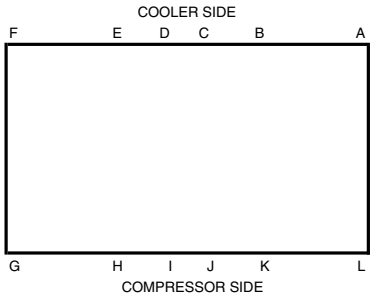
NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 26 — Unit Mounting Weights (Units with Cu/Cu Condensers) (cont)

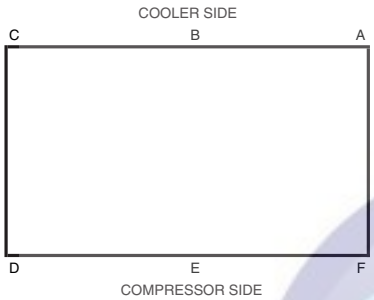
30XA080,082



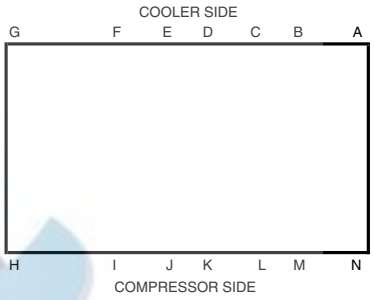
30XA220-302



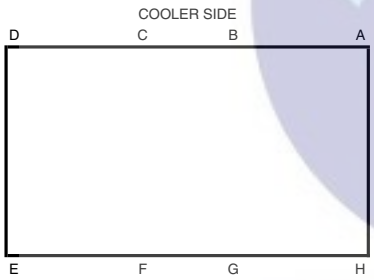
30XA090-122



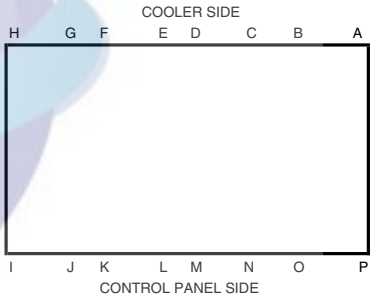
30XA325-352



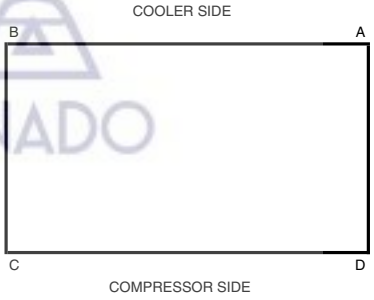
30XA140-162



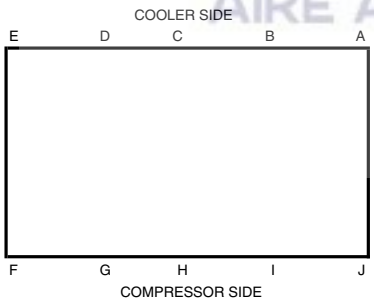
30XA401,451,476,50A



30XA50B



30XA180-202



NOTE: Model 501 ships as two modules. The 50A and 50B modules are installed as one chiller.

Fig. 26 — Unit Mounting Weights (Units with Cu/Cu Condensers) (cont)

SINGLE PUMP UNITS — ENGLISH

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*						
	A	B	C	D	E	F	Total
090	1394	3139	1280	1093	2330	1392	10,627
092	1410	3176	1295	1106	2357	1408	10,751
100	1420	3201	1317	1117	2382	1418	10,854
102	1436	3237	1332	1130	2409	1434	10,978
110	1433	3244	1339	1139	2416	1424	10,994
112	1464	3314	1368	1164	2468	1455	11,231
120	1467	3282	1342	1142	2449	1458	11,139
122	1495	3344	1367	1164	2495	1485	11,349

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*								
	A	B	C	D	E	F	G	H	Total
140	2188	1735	1804	1800	1273	1004	1876	1990	13,669
142	2261	1793	1864	1860	1316	1038	1939	2056	14,126
160	2242	1762	1821	1831	1299	1019	1896	2043	13,912
162	2311	1816	1877	1887	1339	1050	1954	2106	14,338

SINGLE PUMP UNITS — SI

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*						
	A	B	C	D	E	F	Total
090	632	1424	581	496	1057	631	4820
092	640	1440	587	502	1069	639	4876
100	644	1452	597	507	1080	643	4923
102	651	1468	604	512	1093	651	4979
110	650	1471	607	517	1096	646	4987
112	664	1503	620	528	1120	660	5094
120	665	1489	609	518	1111	661	5053
122	678	1517	620	528	1132	674	5148

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*								
	A	B	C	D	E	F	G	H	Total
140	992	787	818	816	577	455	851	903	6200
142	1026	813	846	844	597	471	879	933	6407
160	1017	799	826	830	589	462	860	927	6310
162	1048	824	851	856	607	476	886	955	6504

LEGEND

Cu — Copper

*Condenser: Copper Fins/Copper Tubing.

Fig. 26 — Unit Mounting Weights (Units with Cu/Cu Condensers) (cont)

DUAL PUMP UNITS — ENGLISH

30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*								
	A	B	C	D	E	F	Total		
090	1394	3347	1369	1093	2330	1392	10,924		
092	1410	3385	1385	1105	2356	1408	11,048		
100	1420	3409	1406	1117	2382	1418	11,151		
102	1436	3447	1422	1129	2408	1434	11,275		
110	1433	3452	1428	1139	2416	1424	11,291		
112	1463	3525	1458	1163	2467	1454	11,528		
120	1467	3491	1430	1142	2449	1458	11,436		
122	1494	3555	1456	1163	2494	1485	11,646		
30XA UNIT SIZE	MOUNTING WEIGHT (lb) — Cu/Cu*								
	A	B	C	D	E	F	G	H	Total
140	2188	1735	2012	1889	1273	1004	1876	1990	13,966
142	2260	1792	2078	1951	1315	1037	1937	2055	14,423
160	2242	1762	2029	1919	1299	1019	1896	2043	14,209
162	2309	1815	2090	1977	1338	1050	1953	2104	14,635

DUAL PUMP UNITS — SI

30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*								
	A	B	C	D	E	F	Total		
090	632	1518	621	496	1057	631	4955		
092	639	1535	628	501	1069	639	5011		
100	644	1546	638	507	1080	643	5058		
102	651	1563	645	512	1092	650	5114		
110	650	1566	648	517	1096	646	5122		
112	664	1599	661	527	1119	659	5229		
120	665	1583	649	518	1111	661	5187		
122	678	1613	661	528	1131	673	5283		
30XA UNIT SIZE	MOUNTING WEIGHT (kg) — Cu/Cu*								
	A	B	C	D	E	F	G	H	Total
140	992	787	913	857	577	455	851	903	6335
142	1025	813	942	885	596	470	879	932	6542
160	1017	799	921	871	589	462	860	927	6445
162	1047	823	948	897	607	476	886	954	6638

LEGEND

Cu — Copper

*Condenser: Copper Fins/Copper Tubing.

Fig. 26 — Unit Mounting Weights (Units with Cu/Cu Condensers) (cont)