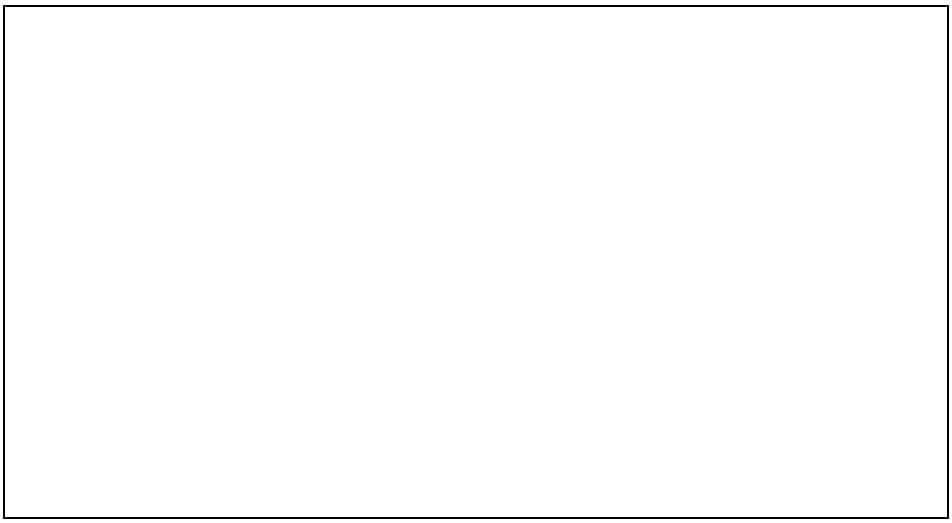
30RB060-390
AIR-COOLED LIQUID CHILLERS WITH *COMFORT*LINK™ CONTROLS
60 Hz

— PERFORMANCE DATA

— CERTIFIED DIMENSIONAL PRINTS

— FIELD WIRING DIAGRAM



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Form 30RB-2SB Replaces: 30RB-1SB Printed in U.S.A. 5-05 Catalog No. 04-51300001-01

Date:	Supersedes:	**30RB060-390 AIR-COOLED LIQUID CHILLERS**	30RB	Rev: -2SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O.#	CARRIER#	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

All 30RB060-390 units are packaged air-cooled liquid chillers that are factory wired, refrigerant piped, and charged with R-410a refrigerant. Any 30RB units with the remote cooler option require field-installed piping, controls, and must be field charged with additional refrigerant. Weatherproof construction and compact design makes 30RB units ideal for rooftop or ground level installation. Upward discharge airflow minimizes directional sound and dissipates heat away from surrounding areas.

FEATURES

Compression

- Hermetic scroll compressors are maintenance free and protected by an auto-adaptive control that minimizes compressor wear.
- External and internal compressor motor protection.
- Complete oil charge.

Refrigerant Circuit

- Unit sizes 060-190 have dual independent refrigerant circuits. Unit sizes 210-300 have three independent refrigerant circuits. Unit sizes 315-390 have four independent refrigerant circuits.
- Low and high side fusible plugs.
- Moisture indicating sight glass.
- Electronic expansion valve with integral sight glass.
- Filter drier, removable core. Optional non-removable core filter drier is available for unit sizes 060-100.
- Discharge and liquid line service valves. An optional suction service valve is available.
- Complete operating refrigerant charge, except for remote cooler option.

Air-Cooled Condenser

- Air-cooled condenser coils are constructed with aluminum plate fins (copper fins optional) mechanically bonded to seamless copper tubes with an integral subcooling circuit.
- Specially designed 3-phase, direct-drive, condenser-fan motors, permanently lubricated bearings.
- External and internal fan motor protection.
- Condenser fans are 9-blade, shrouded axial type, statically and dynamically balanced, discharging air vertically.

Cooler

- Integral shell and tube cooler with $^{3}/_{4}$-in. (19 mm) closed cell polyvinyl chloride foam insulation with a maximum waterside pressure of 300 psig (2068 kPa).

Controls

- Microprocessor-based leaving water temperature control with return water compensation.
- Loss of charge protection included.
- Automatic lead-lag circuit operation.
- Seven-day time schedule.
- Chilled water pump start/stop control and primary/stand-by sequencing to ensure equal pump run time.
- Dual chiller control for parallel chiller applications without additional hardware, modules, or control panels.
- Unoccupied low sound operation to limit condenser fan sound during scheduled periods.
- Maintenance scheduling to signal maintenance activities for pumps and strainers.
- Low chilled water flow protection is provided via an electronic thermal dispersion flow switch.
- High-pressure switch.
- Intermediate season head pressure control.
- Microprocessor control includes keypad with diagnostic display with access to set points, time and date, system status including % capacity, operating temperatures and pressures, and alarm conditions.
- Periodic pump start to ensure pump seals are properly maintained during off-season.

Cabinet

- Cabinet constructed of galvanized steel, phosphatized zinc, with electrostatically applied high solids, polyester baked enamel finish with hinged access panels.

Hydronic Package Option

- Optional hydronic pump packages are available (unit sizes 060-190) in single and dual pump arrangements with a maximum waterside pressure of 150 psi (1034 kPa). A strainer, combination valve, and pressure taps are provided with the package.

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

PERFORMANCE DATA (English)

UNIT

Capacity _____ Tons
Compressor Power Input _____ kW
Unit Power Input _____ kW
Max. Operating Outdoor Temperature _____ F
Capacity Control Steps _____
Minimum Capacity _____ %
Condenser Entering Air Temperature _____ F

COOLER

Entering Water Temperature _____ F
Leaving Water Temperature _____ F
Chilled Water Flow _____ gpm
Chilled Water Pressure Drop _____ ft wg
Fouling Factor _____ hr ft^2 °F/Btu
Fluid _____
Concentration _____ %

PERFORMANCE DATA (SI)

UNIT

Capacity _____ kW
Compressor Power Input _____ kW
Unit Power Input _____ kW
Max. Operating Outdoor Temperature _____ C
Capacity Control Steps _____
Minimum Capacity _____ %
Condenser Entering Air Temperature _____ C

COOLER

Entering Water Temperature _____ C
Leaving Water Temperature _____ C
Chilled Water Flow _____ l/s
Chilled Water Pressure Drop _____ m wg
Fouling Factor _____ m^2 °C/W
Fluid _____
Concentration _____ %

ELECTRICAL DATA

Power Supply to Unit _____ V, 3 ph, 60 Hz

Power Connection	☐ Single	☐ Dual
Minimum Circuit Ampacity	_____	_____
Max. Fuse Amps	_____	_____
Recommended Fuse Amps	_____	_____

OPTIONS AND ACCESSORIES

FACTORY-INSTALLED OPTIONS

- ☐ Pre-Coat Aluminum Fin/Copper Tube Condenser Coil
- ☐ E-Coat Aluminum Fin/Copper Tube Condenser Coil
- ☐ Copper Fin/Copper Tube Condenser Coil
- ☐ E-Coat Copper Fin/Copper Tube Condenser Coil
- ☐ BACnet™ Translator
- ☐ Compressor Sound Enclosures
- ☐ Condenser Coil Trim Panels
- ☐ Cooler Heaters
- ☐ Energy Management Module
- ☐ Hail Guards
- ☐ LON Translator
- ☐ Minimum Load Control
- ☐ Low Ambient Temperature Head Pressure Control
- ☐ Non-Fused Disconnect
- ☐ Non-Removable Core Filter Drier (060-100)
- ☐ Remote Cooler (060-190)
- ☐ Service Package (GFI-CO, Remote Service Port)
- ☐ Security Grilles, Upper and Lower
- ☐ Suction Line Insulation
- ☐ Suction Service Valve
- ☐ Medium Temperature Brine Operation
- ☐ Hydronic Package
  - ☐ Single ☐ Dual _____ Hp

FIELD-INSTALLED ACCESSORIES

- ☐ BACnet Translator
- ☐ Chillervisor System Manager
- ☐ Condenser Coil Trim Panels
- ☐ DataLINK™ Control
- ☐ DataPort™ Control
- ☐ Energy Management Module
- ☐ Ground Fault Interrupter-Convenience Outlet (GFI-CO)
- ☐ Hail Guards
- ☐ LON Translator
- ☐ Minimum Load Control
- ☐ Low Ambient Temperature Head Pressure Control
- ☐ Navigator™ Display
- ☐ Remote Cooler (060-190)
- ☐ Remote Enhanced Display
- ☐ Remote Service Port
- ☐ Security Grilles, Lower
- ☐ Security Grilles, Upper
- ☐ Signal Repeater
- ☐ Signal Repeater, Power Supply
- ☐ _____
- ☐ _____

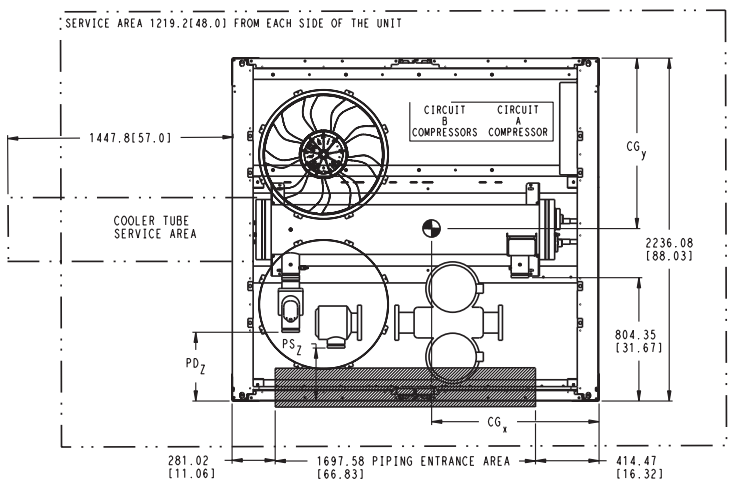
CERTIFIED DIMENSION PRINT

NOTES: 1. UNIT MUST HAVE CLEARANCES AS FOLLOWS:
TOP- DO NOT RESTRICT
SIDES AND END- 6' FROM SOLID SURFACE
2. ALL PUMPS HAVE DRAINS LOCATED AT THE BOTTOM OF VOLUTE FOR DRAINING.
3. TEMPERATURE RELIEF DEVICES LOCATED ON SUCTION LINE,LIQUID LINE AND FILTER DRIER OF EACH CIRCUIT AND HAVE 1/4" 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.

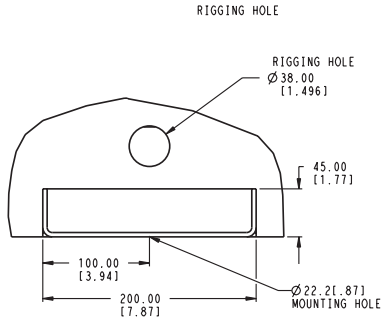
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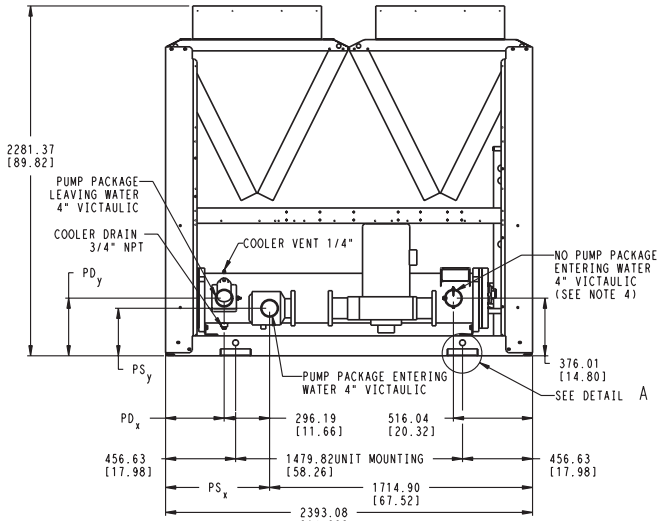
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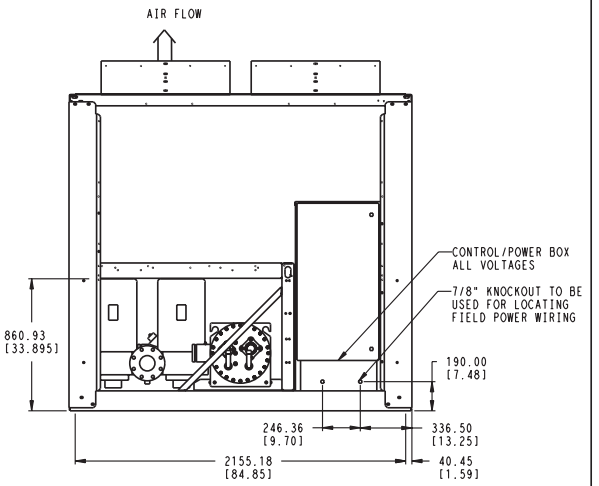
TOP VIEW



DETAIL A
SCALE 1:2



FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	Y ±.25	Z ±.25	PUMP DISCHARGE (PD) X ±.25	Y ±.25	Z ±.25
30RB-060	3872 1756	4705 2134	4354 1975	5187 2353	1164 [45.82]	1038 [40.86]	675.6 [26.6]	309.9 [12.2]	353.1 [13.9]	381.0 [15.0]	375.9 [14.8]	447.0 [17.6]
30RB-070	4077 1849	4911 2228	4560 2068	5393 2446	1165 [45.86]	1013 [39.88]	675.6 [26.6]	309.9 [12.2]	353.1 [13.9]	381.0 [15.0]	375.9 [14.8]	447.0 [17.6]

DATE	SUPERCEDES			REV
03/02/05	09/14/04	30RB-060,070 AIR COOLED CHILLER	00DCN500000100A	B

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

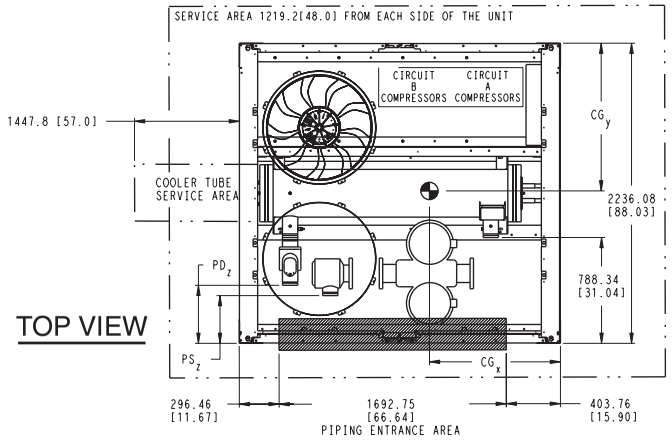
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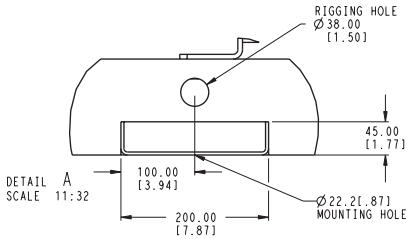
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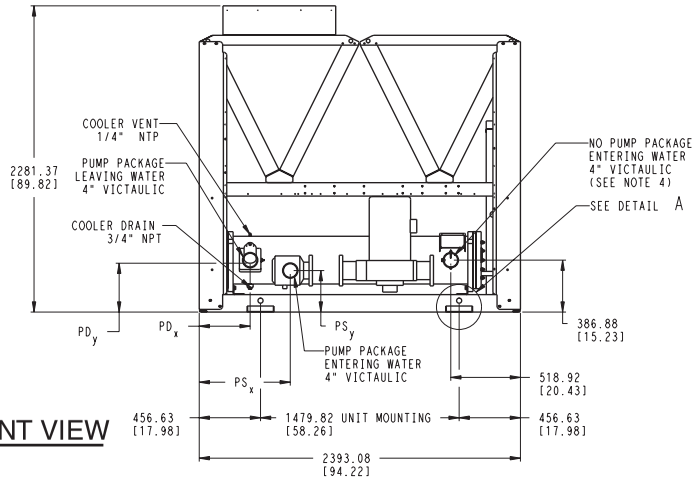
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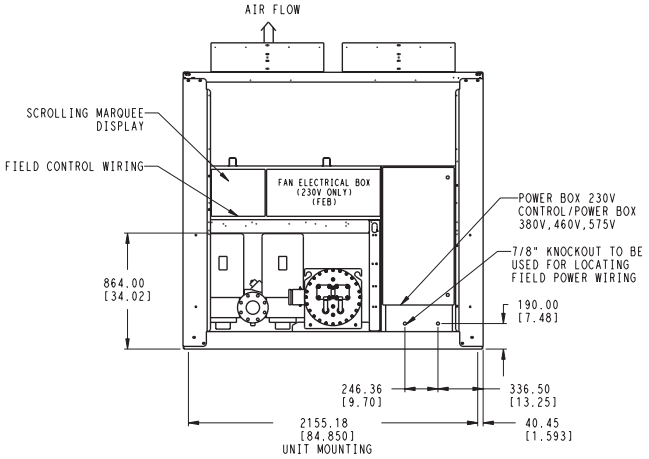


TOP VIEW





FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	Y ±.25	Z ±.25	PUMP DISCHARGE (PD) X ±.25	Y ±.25	Z ±.25
30RB-080	4335 1966	5258 2385	4817 2185	5740 2604	1206 [47.48]	1012 [39.84]	675.6 [26.6]	309.9 [12.2]	353.1 [13.9]	381.0 [15.0]	391.2 [15.4]	429.3 [16.9]

DATE	SUPERCEDES			REV
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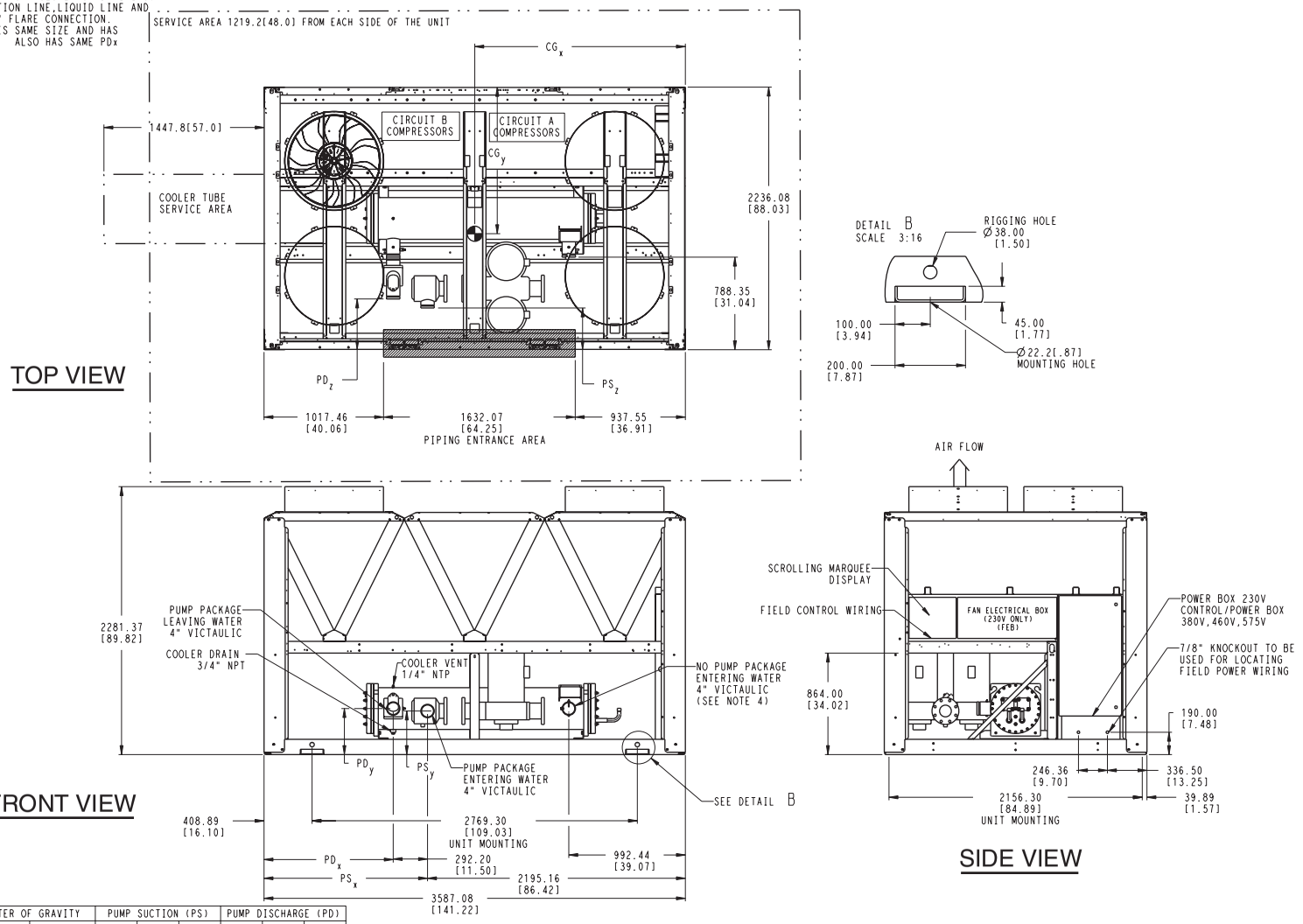
CERTIFIED DIMENSION PRINT

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	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	Y ±.25	Z ±.25	PUMP DISCHARGE (PD) X ±.25	Y ±.25	Z ±.25
30RB-090	5667 2571	6590 2989	6391 2899	7314 3318	1625 [64.0]	1017 [40.0]	1389.4 [54.7]	309.9 [12.2]	353.1 [13.9]	1097.3 [43.2]	391.2 [15.4]	429.3 [16.9]
30RB-100	5890 2672	6813 3090	6614 3000	7537 3419	1614 [63.5]	999 [39.3]	1389.4 [54.7]	309.9 [12.2]	353.1 [13.9]	1097.3 [43.2]	391.2 [15.4]	429.3 [16.9]

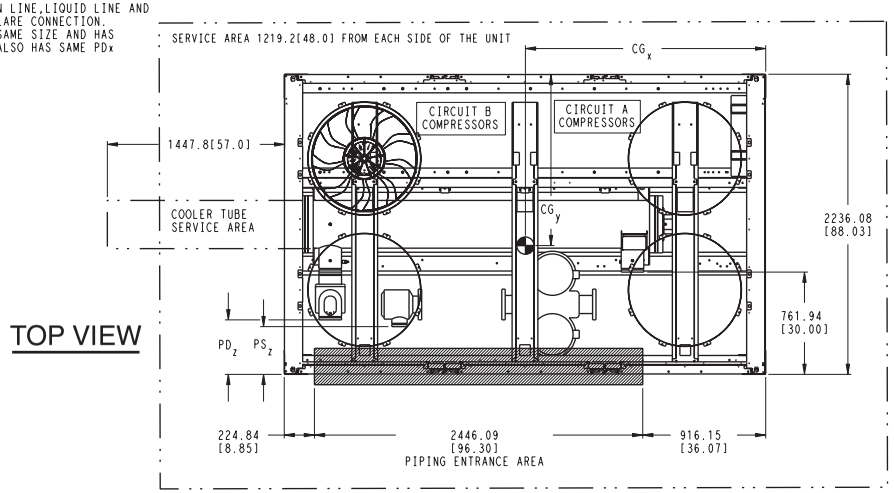
DATE	SUPERCEDES	30RB-090,100 AIR COOLED CHILLER	00DCN500000300A	REV
03/02/05	11/18/04			B

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

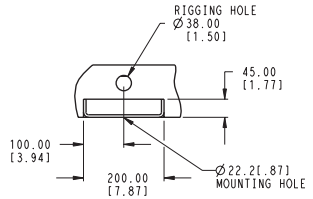
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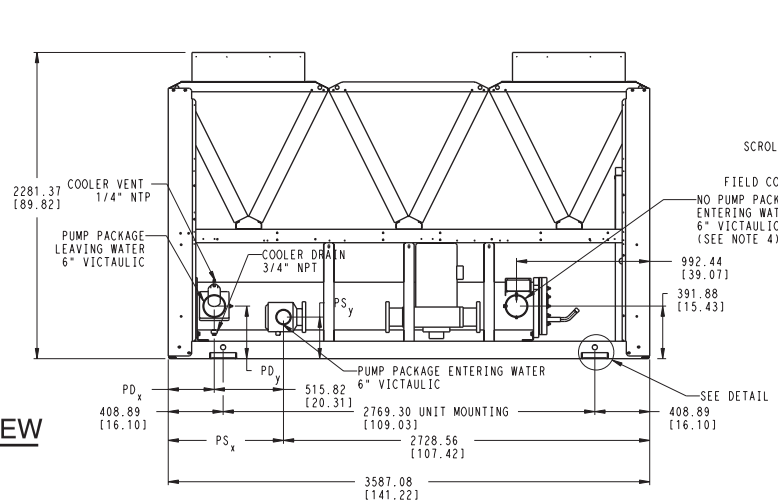
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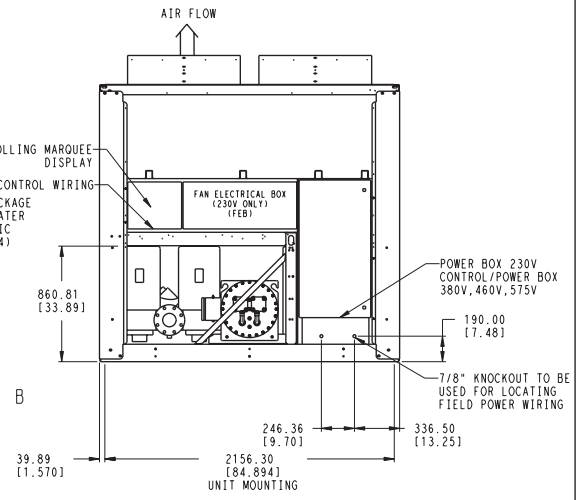
TOP VIEW



DETAIL B
SCALE 3:16



FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	Y ±.25	Z ±.25	PUMP DISCHARGE (PD) X ±.25	Y ±.25	Z ±.25
30RB-110	6144 2787	7067 3206	6868 3115	7791 3534	1713 [67.44]	997 [39.25]	856.0 [33.7]	281.9 [11.1]	60.9 [2.4]	340.4 [13.4]	391.2 [15.4]	233.7 [9.2]

DATE	SUPERCEDES		
05/04/05	03/02/05	30RB-110 AIR COOLED CHILLER	00DCN500000400A REV C

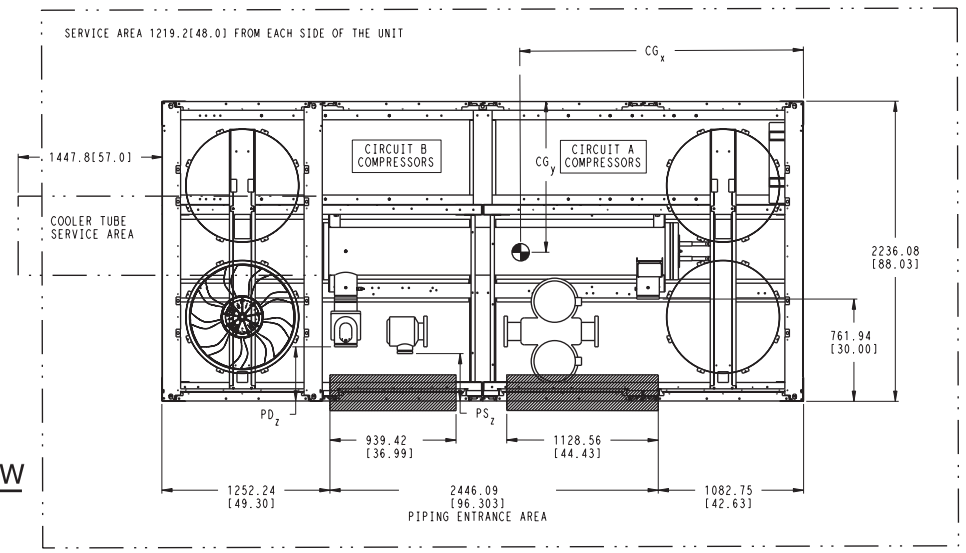
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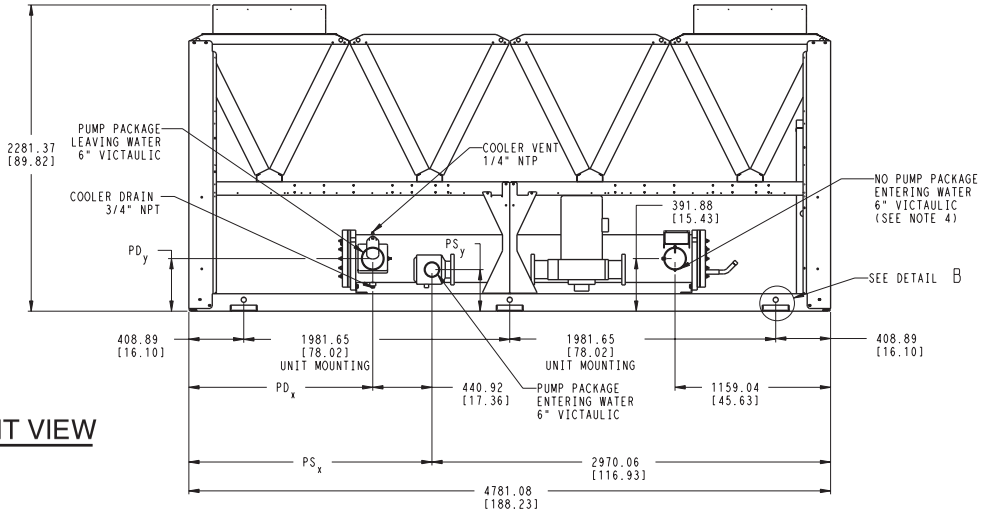
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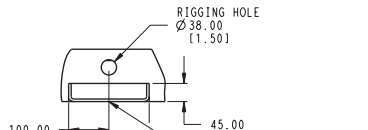
NOTES:
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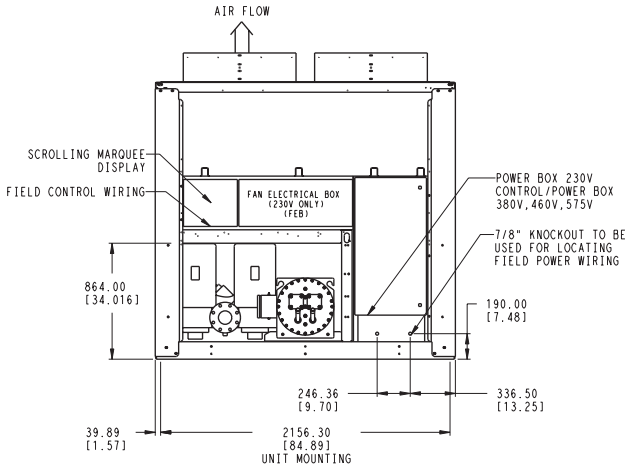
TOP VIEW



FRONT VIEW



DETAIL B
SCALE 3:16



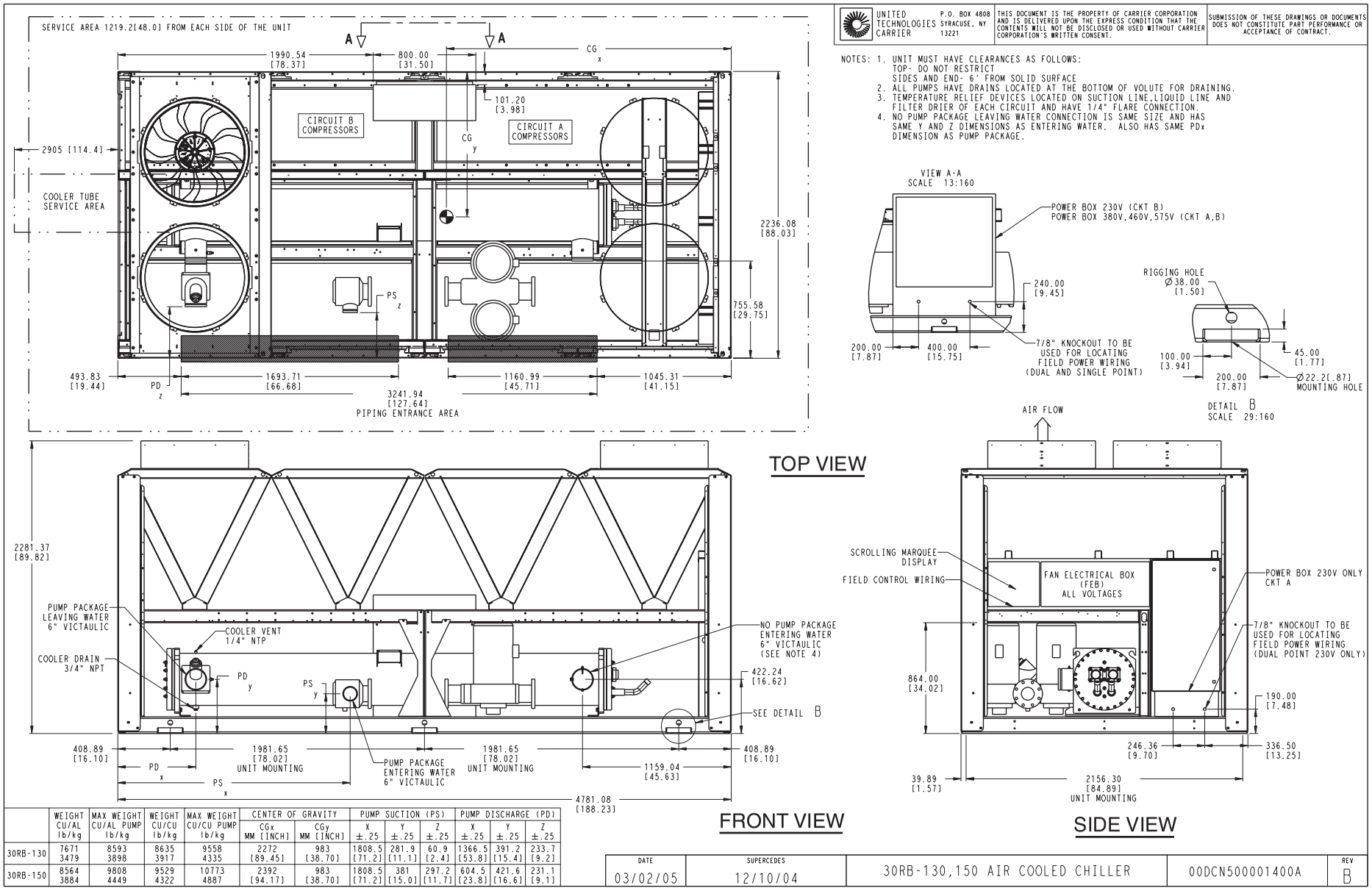
SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	Y ±.25	Z ±.25	PUMP DISCHARGE (PD) X ±.25	Y ±.25	Z ±.25
30RB-120	7315 3318	8238 3737	8159 3701	9082 4120	2346 [92.36]	993 [39.09]	1808.5 [71.2]	281.9 [11.1]	60.9 [2.4]	1366.5 [53.8]	391.2 [15.4]	233.7 [9.2]

DATE	SUPERCEDES			REV
03/02/05	12/10/04	30RB-120 AIR COOLED CHILLER	00DCN500000500A	B

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT



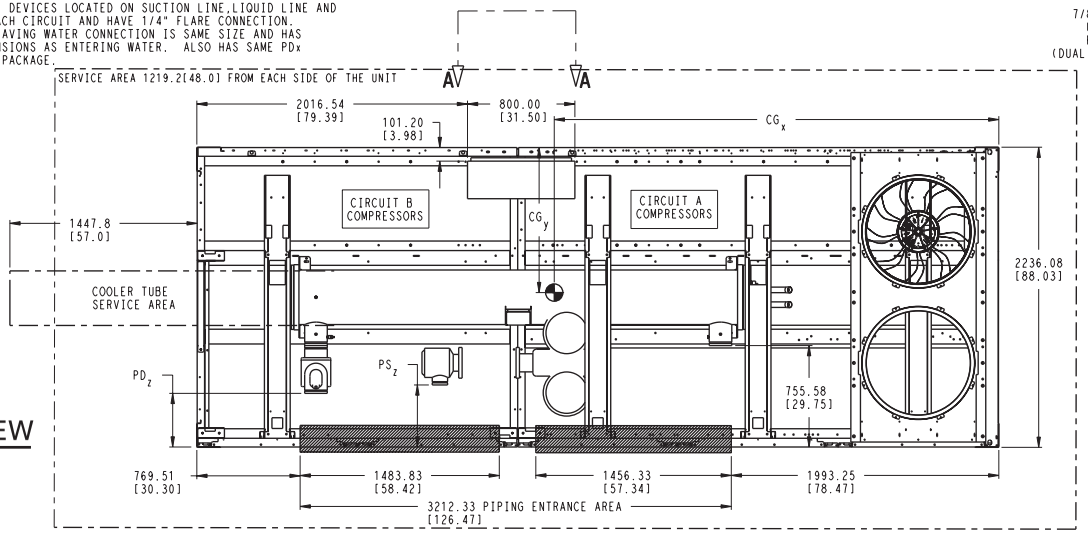
	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	Y ±.25	Z ±.25	PUMP DISCHARGE (PD) X ±.25	Y ±.25	Z ±.25
30RB-130	7671 3479	8593 3898	8635 3917	9558 4335	2272 [89.45]	983 [38.70]	1808.5 [71.2]	281.9 [11.1]	60.9 [2.4]	1366.5 [53.8]	391.2 [15.4]	233.7 [9.2]
30RB-150	8564 3884	9808 4449	9529 4322	10773 4887	2392 [94.17]	983 [38.70]	1808.5 [71.2]	381 [15.0]	297.2 [11.7]	604.5 [23.8]	421.6 [16.6]	231.1 [9.1]

DATE	SUPERCEDES			REV
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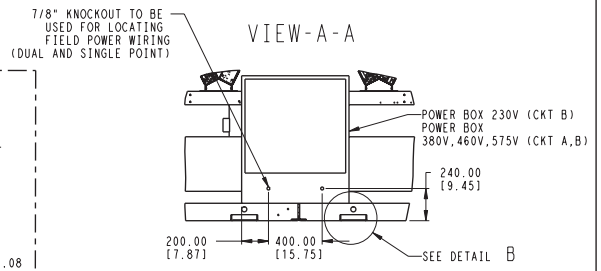
CERTIFIED DIMENSION PRINT

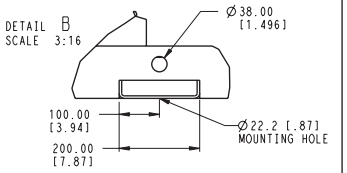
NOTES: 1. UNIT MUST HAVE CLEARANCES AS FOLLOWS:
TOP- DO NOT RESTRICT
SIDES AND END- 6' FROM SOLID SURFACE
2. ALL PUMPS HAVE DRAINS LOCATED AT THE BOTTOM OF VOLUTE FOR DRAINING.
3. TEMPERATURE RELIEF DEVICES LOCATED ON SUCTION LINE,LIQUID LINE AND FILTER DRIER OF EACH CIRCUIT AND HAVE 1/4" FLARE CONNECTION.
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.

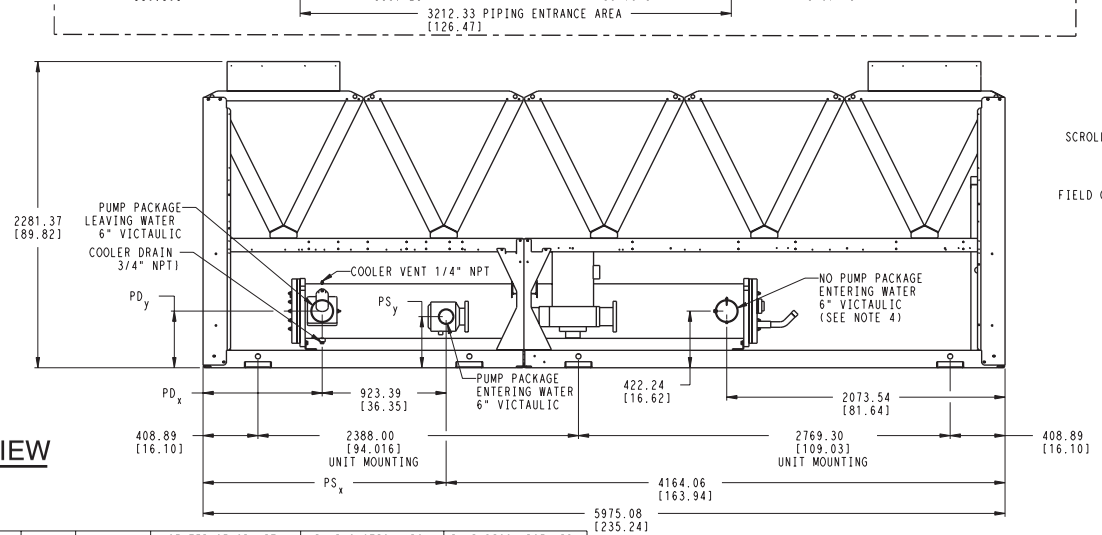
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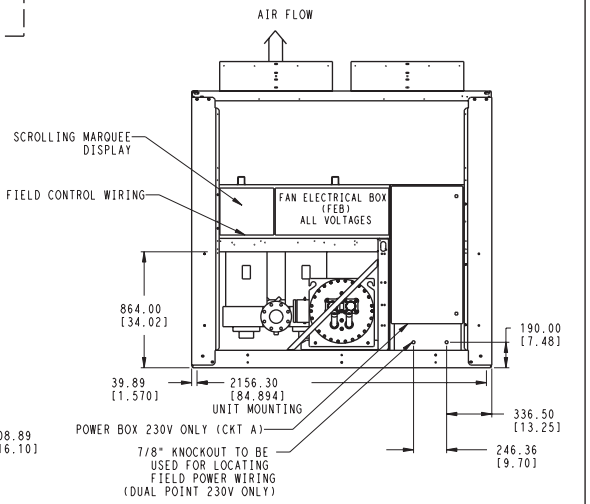
TOP VIEW







FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY		PUMP SUCTION (PS)			PUMP DISCHARGE (PD)		
					CGx MM [INCH]	CGy MM [INCH]	X ±.25	Y ±.25	Z ±.25	X ±.25	Y ±.25	Z ±.25
30RB-160 315A/B,330B	9656 4380	10900 4944	10862 4927	12106 5491	3065 [120.66]	994 [39.13]	1808.48 [71.2]	381 [15.0]	297.2 [11.7]	883.92 [34.8]	421.64 [16.6]	231.14 [9.1]
30RB-170 330A,345A/B,360B	9991 4532	11235 5096	11197 5079	12441 5643	3114 [122.59]	978 [30.5]	1808.48 [71.2]	381 [15.0]	297.2 [11.7]	883.92 [34.8]	421.64 [16.6]	231.14 [9.1]

DATE	SUPERCEDES			REV
03/02/05	11/18/04	30RB-160,170,315A/B,330A/B,345A/B,360B AIR COOLED CHILLER	00DCN500000700A	B

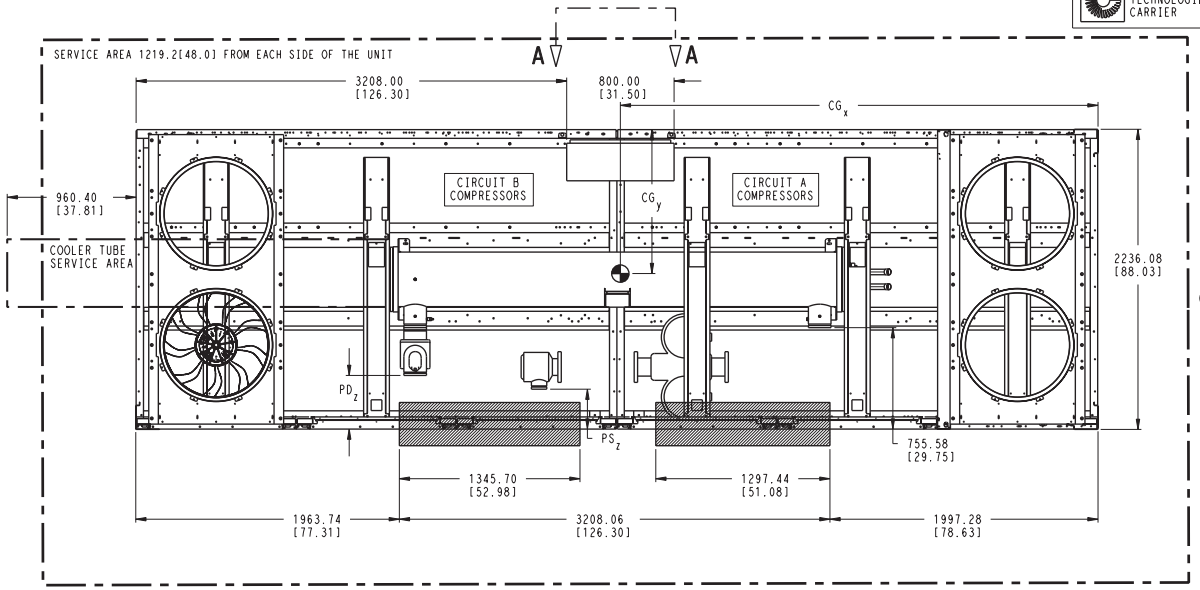
CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER P.O. BOX 4808 SYRACUSE, NY 13221

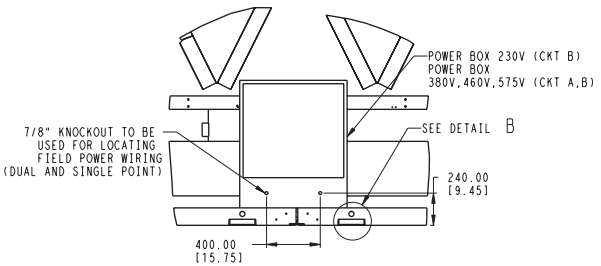
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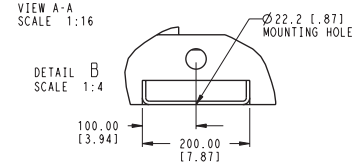
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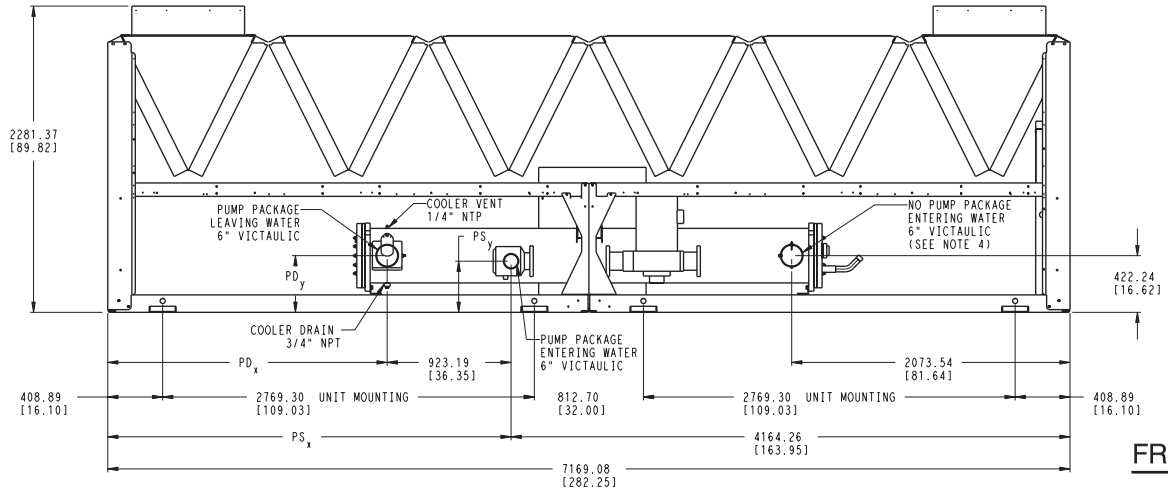


TOP VIEW

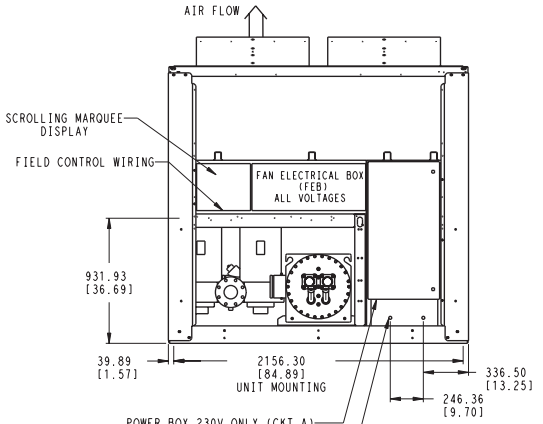
NOTES:
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   SIDES AND END- 6' FROM SOLID SURFACE
2. ALL PUMPS HAVE DRAINS LOCATED AT THE BOTTOM OF VOLUTE FOR DRAINING.
3. TEMPERATURE RELIEF DEVICE LOCATED ON SUCTION LINE AND FILTER DRIER OF EACH CIRCUIT. 1/4" FLARE CONNECTION.







FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CENTER OF GRAVITY CGy MM [INCH]	PUMP SUCTION (PS) X ±.25	PUMP SUCTION (PS) Y ±.25	PUMP SUCTION (PS) Z ±.25	PUMP DISCHARGE (PD) X ±.25	PUMP DISCHARGE (PD) Y ±.25	PUMP DISCHARGE (PD) Z ±.25
30RB-190, 360A,390A/B	11402 5172	12647 5737	12850 5829	14094 6393	3578 [140.87]	974 [38.35]	3002 [118.2]	381 [15.0]	297.2 [11.7]	2080.3 [81.9]	421.6 [16.6]	231.1 [9.1]

DATE	SUPERCEDES			REV
03/02/05	11/18/04	30RB-190,360A,390A/B AIR COOLED CHILLER	00DCN500000800A	B

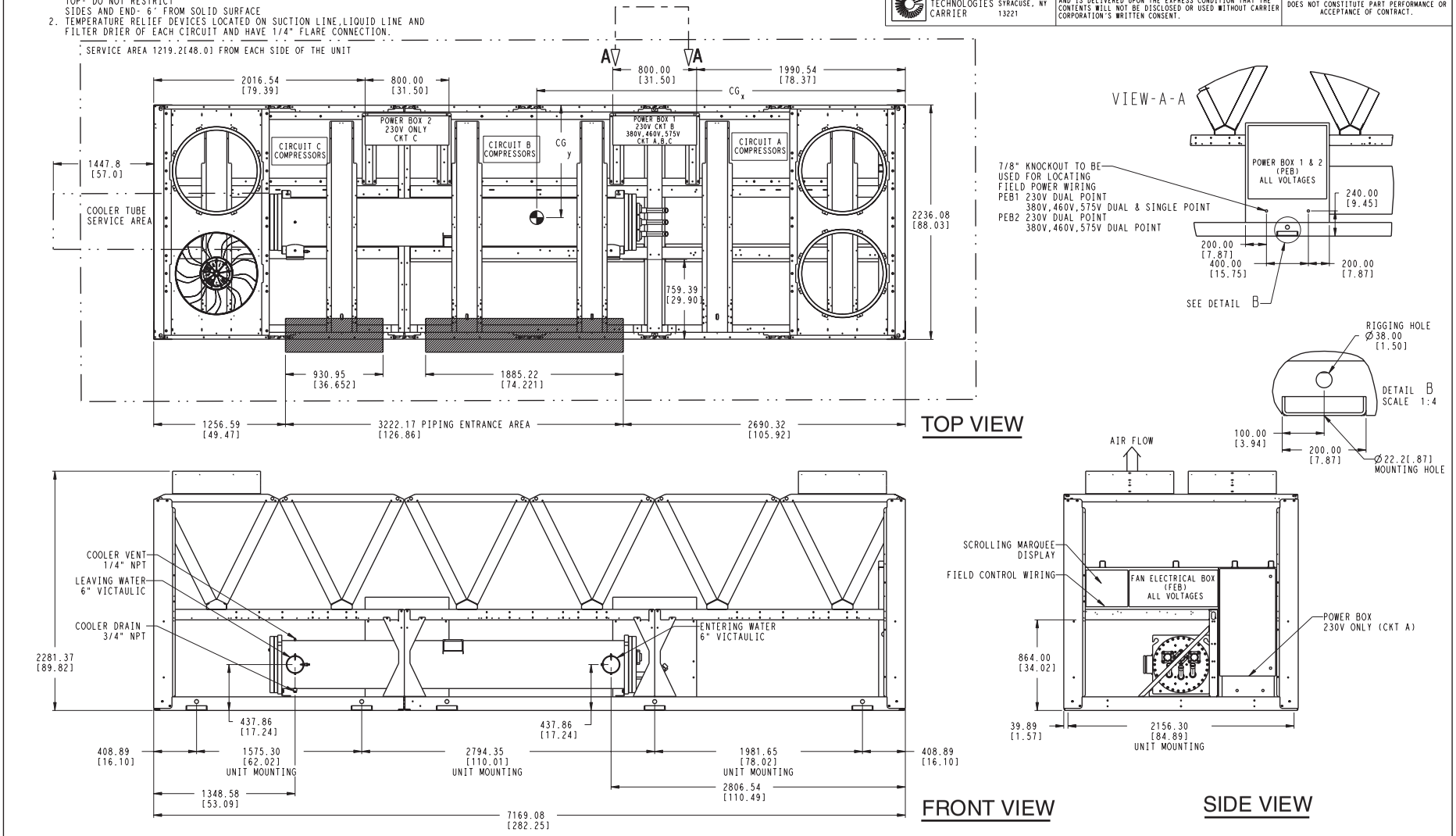
CERTIFIED DIMENSION PRINT

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TOP- DO NOT RESTRICT
SIDES AND END- 6' FROM SOLID SURFACE
2. TEMPERATURE RELIEF DEVICES LOCATED ON SUCTION LINE,LIQUID LINE AND FILTER DRIER OF EACH CIRCUIT AND HAVE 1/4" FLARE CONNECTION.

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	WEIGHT CU/AL lb/kg	WEIGHT CU/CU lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]
30RB-210	13019 5905	14466 6562	3528 [138.90]	917 [36.10]
30RB-225	13352 6056	14799 6713	3588 [141.26]	906 [35.67]

DATE	SUPERCEDES			REV
03/02/05	11/18/04	30RB-210,225 AIR COOLED CHILLER	00DCN500000900A	B

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

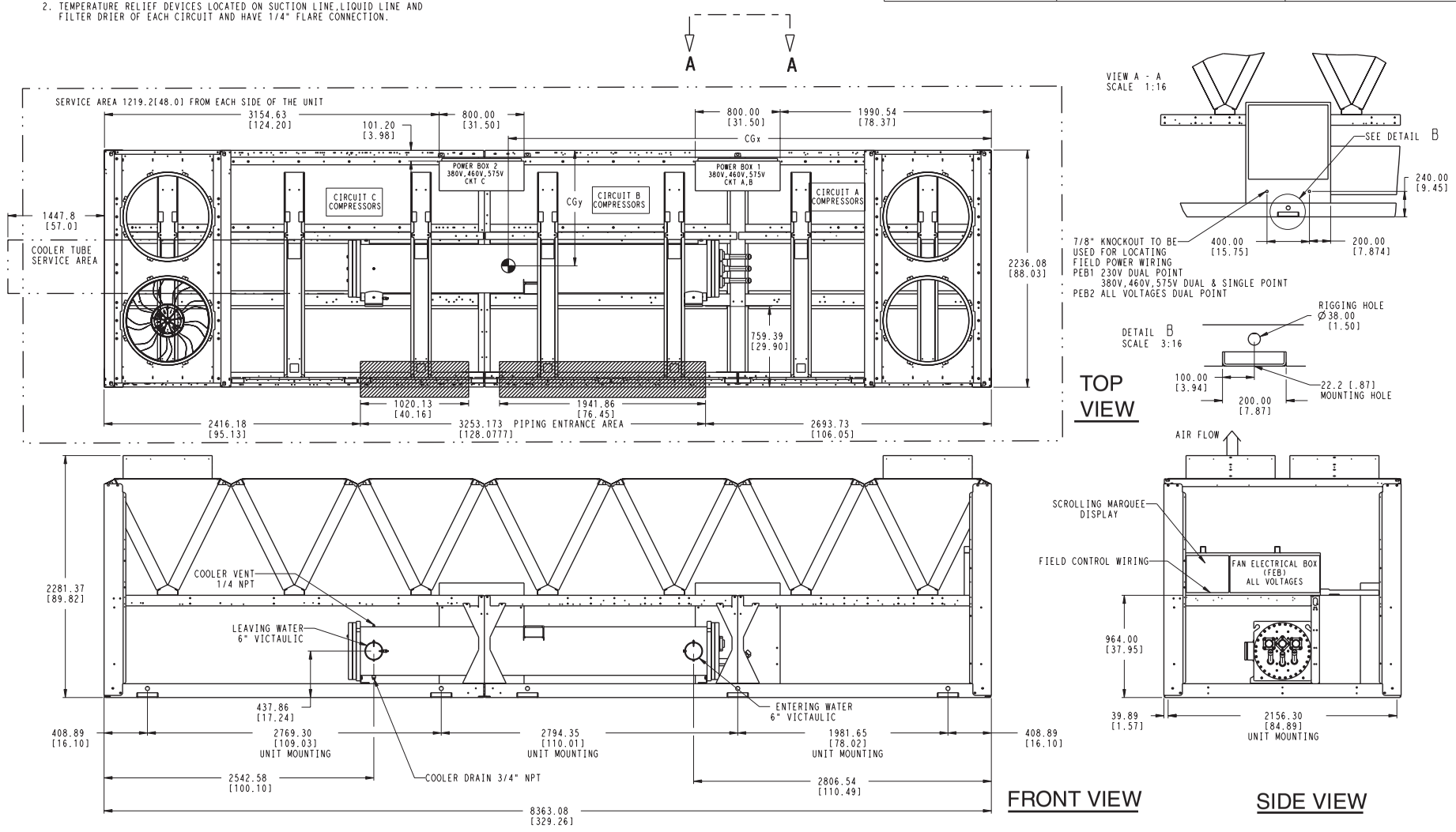
CERTIFIED DIMENSION PRINT

NOTES: 1. UNIT MUST HAVE CLEARANCES AS FOLLOWS:
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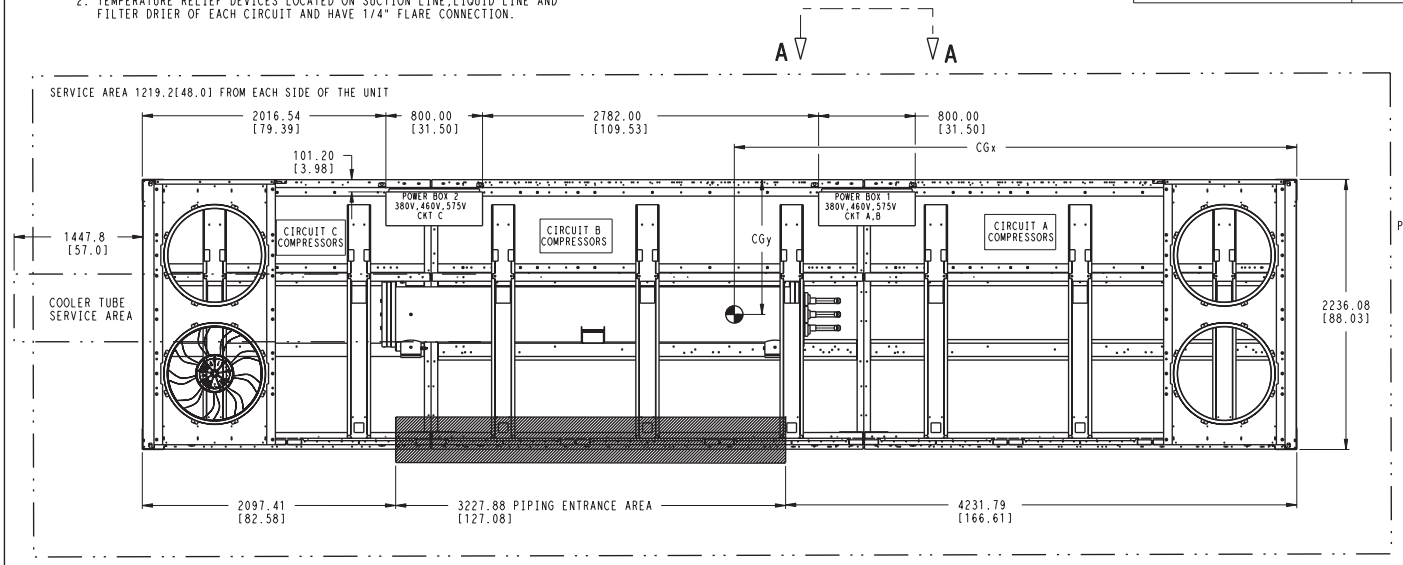
	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CENTER OF GRAVITY CGy MM [INCH]
30RB-250	14753 6692	0	16441 7458	0	4022 [158.35]	910 [35.86]

DATE	SUPERCEDES			REV
05/10/05	03/02/05	30RB-250 AIR COOLED CHILLER	00DCN500001000A	C

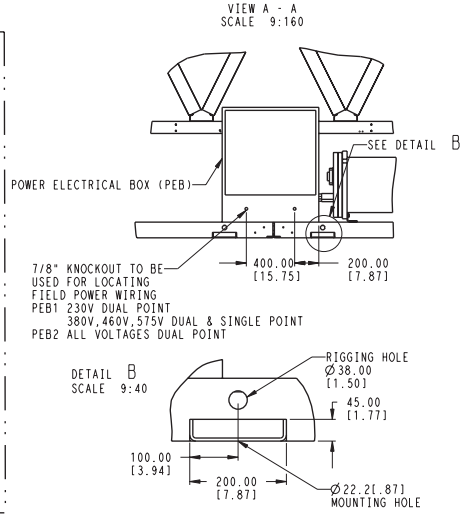
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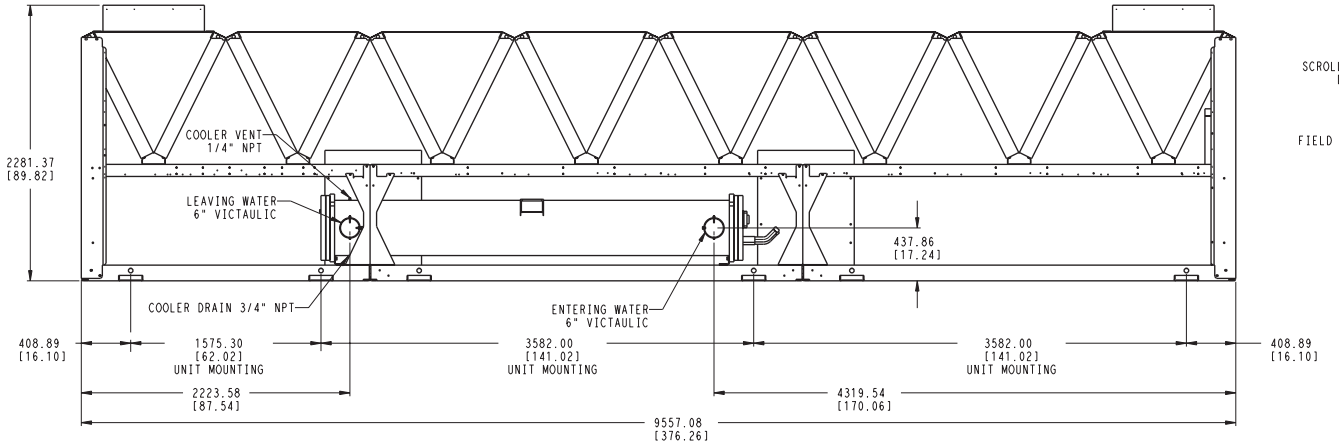
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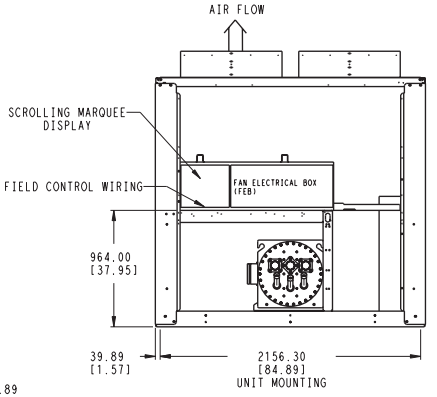


TOP VIEW





FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]
30RB-275	16200 7348	0	18129 8223	0	4857 [191.22]	914 [35.98]

DATE	SUPERCEDES			REV
05/10/05	03/02/05	30RB-275 AIR COOLED CHILLER	00DCN500001100A	C

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

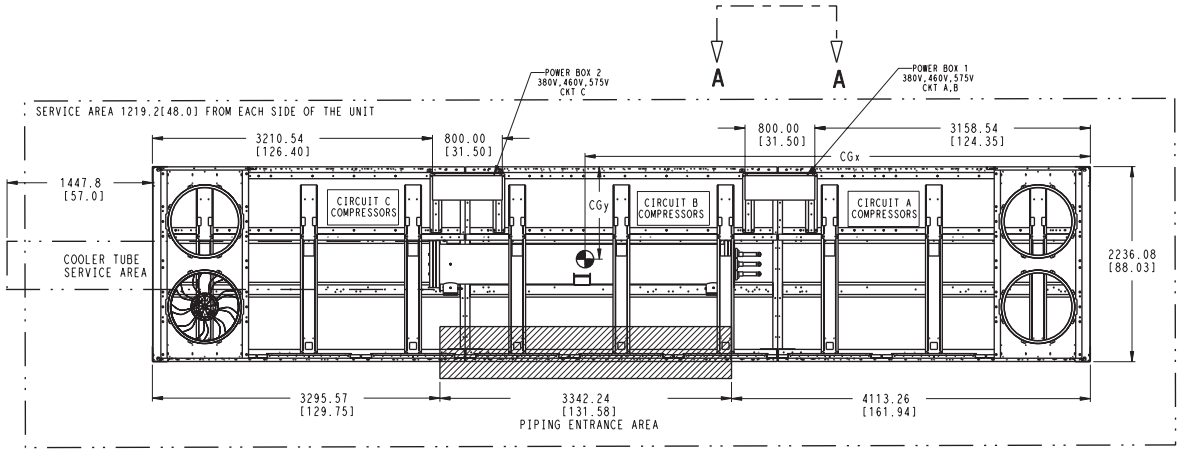
CERTIFIED DIMENSION PRINT

NOTES: 1. UNIT MUST HAVE CLEARANCES AS FOLLOWS:
TOP- DO NOT RESTRICT
SIDES AND END- 6' FROM SOLID SURFACE
2. TEMPERATURE RELIEF DEVICES LOCATED ON SUCTION LINE,LIQUID LINE AND FILTER DRIER OF EACH CIRCUIT AND HAVE 1/4" FLARE CONNECTION.

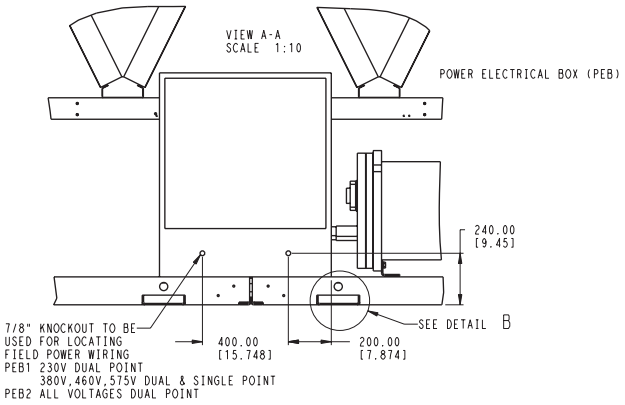
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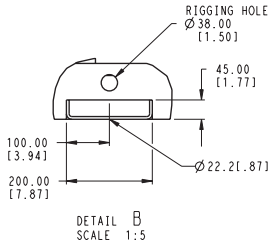
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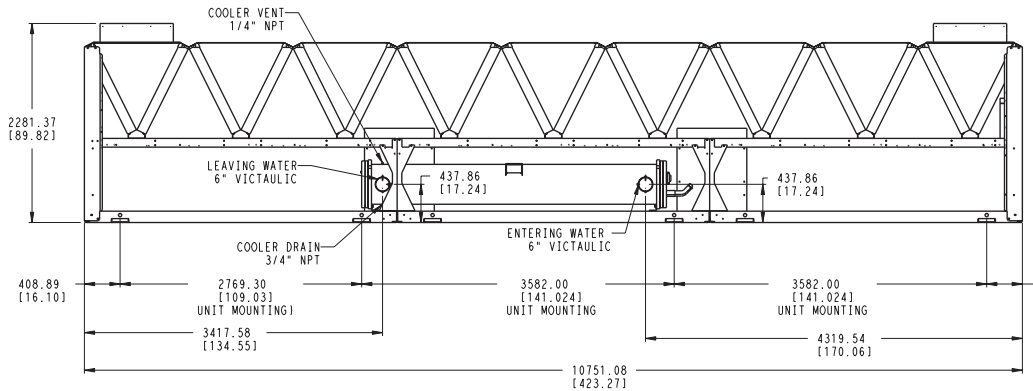
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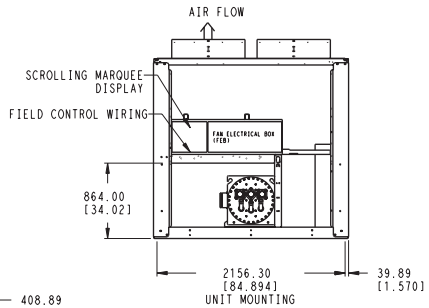
TOP VIEW







FRONT VIEW



SIDE VIEW

	WEIGHT CU/AL lb/kg	MAX WEIGHT CU/AL PUMP lb/kg	WEIGHT CU/CU lb/kg	MAX WEIGHT CU/CU PUMP lb/kg	CENTER OF GRAVITY CGx MM [INCH]	CGy MM [INCH]
30RB-300	17591 7979	0	19762 8964	0	5317 [203.33]	916 [36.06]

DATE	SUPERCEDES			REV
05/10/05	03/02/05	30RB-300 AIR COOLED CHILLER	00DCN500001200A	C

FIELD WIRING DIAGRAM

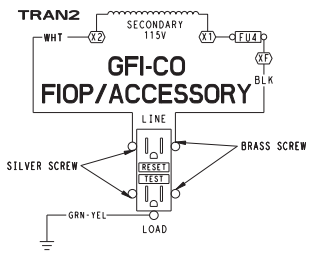
NOTES:

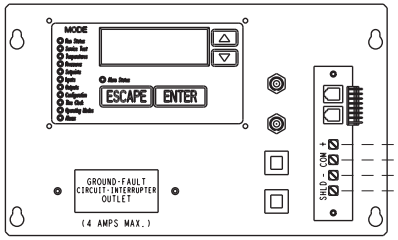
1. FACTORY WIRING IS IN ACCORDANCE WITH UL 1995 STANDARDS. FIELD MODIFICATIONS OR ADDITIONS MUST BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
2. WIRING FOR MAIN FIELD SUPPLY MUST BE RATED 75C MINIMUM. USE COPPER FOR ALL UNITS.
   INCOMING WIRE SIZE RANGE FOR THE TERMINAL BLOCK IS #4 AWG TO 500 KCMIL.
   INCOMING WIRE SIZE RANGE OF NON-FUSED DISCONNECT WITH MCA UP TO 599.9 AMPS IS 3/0 TO 500 KCMIL.
   INCOMING WIRE SIZE RANGE OF NON-FUSED DISCONNECT WITH MCA FROM 600 TO 799.9 AMPS IS 1/0 TO 500 KCMIL.
   INCOMING WIRE SIZE RANGE OF NON-FUSED DISCONNECT WITH MCA FROM 800 TO 1199.9 AMPS IS 250 KCMIL TO 500 KCMIL.
3. TERMINALS 9 AND 10 OF TB5 ARE FOR FIELD EXTERNAL CONNECTIONS FOR REMOTE ON-OFF. THE CONTACTS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.
4. TERMINALS 1 AND 2 OF TB5 ARE FOR EXTERNAL CONNECTIONS OF CHILLED WATER PUMP INTERLOCK. THE CONTACTS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.
5. TERMINALS 11 AND 13 OF TB5 ARE FOR CONTROL OF CHILLED WATER PUMP1 (PMP1) STARTER. TERMINALS 13 AND 15 OF TB5 ARE FOR CONTROL OF CHILLED WATER PUMP2 (PMP2) STARTER. THE MAXIMUM LOAD ALLOWED FOR THE CHILLED WATER PUMP RELAY IS 5 VA SEALED, 10 VA INRUSH AT 24V. FIELD POWER SUPPLY IS NOT REQUIRED.
6. FOR CONTROL OF CHILLED WATER PUMPS, A SET OF NORMALLY OPEN CONTACTS RATED FOR DRY CIRCUIT APPLICATION MUST BE SUPPLIED FROM FIELD SUPPLIED PUMP STARTER RELAY. CONNECT CONTACTS TO VIOLET AND PINK WIRES IN HARNESS FROM MAIN BASE BOARD CHANNEL 18. WIRES IN HARNESS ARE MARKED PMP1-13 AND PMP1-14.
7. TERMINALS 12 AND 13 OF TB5 ARE FOR A ALARM RELAY. THE MAXIMUM LOAD ALLOWED FOR THE ALARM RELAY IS 10 VA SEALED, 25 VA INRUSH AT 24V. FIELD POWER SUPPLY IS NOT REQUIRED.
8. MAKE APPROPRIATE CONNECTIONS TO TB6 AS SHOWN FOR ENERGY MANAGEMENT BOARD OPTIONS. THE CONTACTS FOR OCCUPANCY OVERRIDE, DEMAND LIMIT AND ICE DONE OPTIONS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.

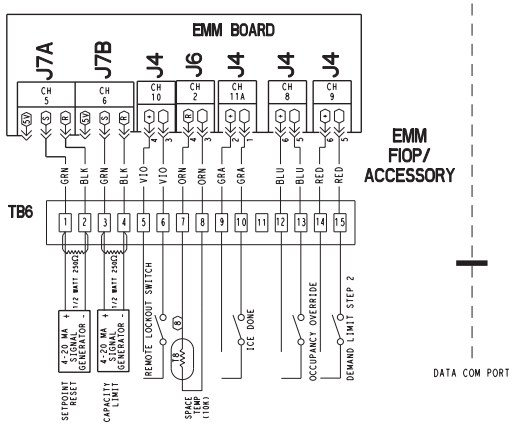
LEGEND:

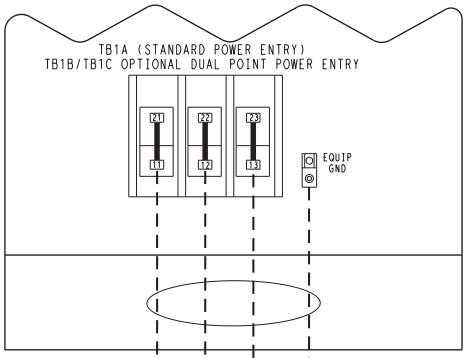
A	- ALARM
CWPI	- CHILLED WATER PUMP INTERLOCK
CWP	- CHILLED WATER PUMP
EMM	- ENERGY MANAGEMENT
MLV	- MINIMUM LOAD VALVE
TB	- TERMINAL BLOCK
— — —	FIELD POWER WIRING
— — —	FIELD CONTROL WIRING
———	FACTORY INSTALLED WIRING

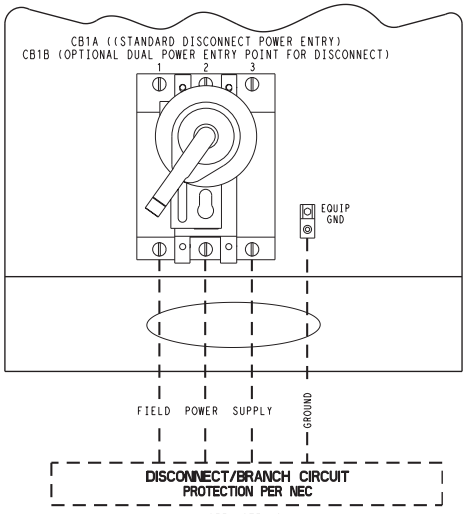
DUPLEX UNITS	
SIZE	STD UNIT
315A,B 330B	160
330A 345A,B 360B	170
360A 390A,B	190

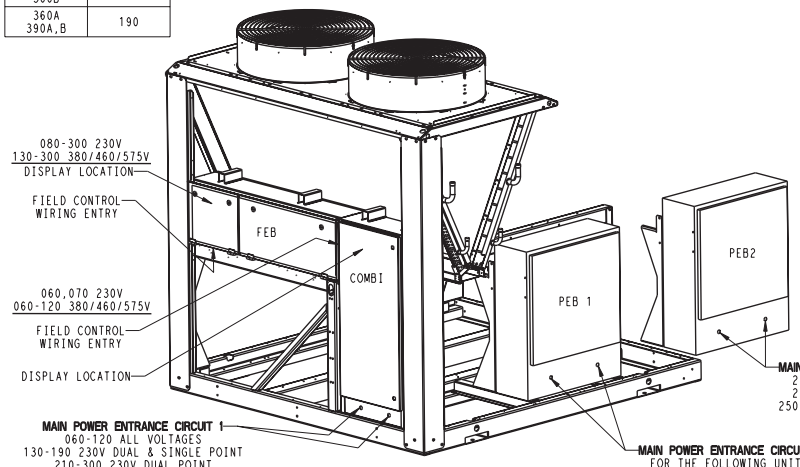




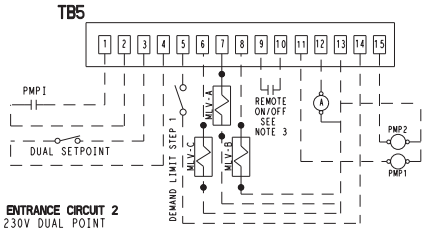








TYPICAL CONTROL BOX LOCATIONS AND MAIN POWER ENTRY



DATE	SUPERCEDES			REV
05/17/05	12/17/04	30RB060-390 AIR COOLER "STARFIRE" CHILLER	00DCN500001300A	3.0

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