



30GX-6SB

30GX080-350

**AIR-COOLED LIQUID CHILLERS
50/60 Hz**

- PERFORMANCE DATA**
- CERTIFIED DIMENSION PRINT**
- FIELD WIRING DIAGRAM**



Date:	Supersedes	30GX080-350 AIR-COOLED LIQUID CHILLERS	30GX	Rev: -6SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O.#	CARRIER#	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:				DATE:

DESCRIPTION

Packaged air-cooled liquid chiller factory wired, piped, and charged with HFC-134a. Upward discharge airflow minimizes directional sound and dissipates heat away from surrounding areas.

FEATURES

Cooler is mechanically cleanable "flooded" shell-and-tube type with removable heads. It is tested and stamped in accordance with ASME Code for a refrigerant working side pressure of 220 psig (1517 kPa) and a maximum fluid side pressure of 300 psig (2068 kPa) (250 psig [1724 kPa] in Canada) and is insulated with 3/4-in. (19 mm) closed-cell polyvinyl chloride foam.

Cooler can be equipped with electric heater to help protect against cooler freeze-up (use of inhibited glycol anti-freeze required for freeze protection).

Compressor is semi-hermetic twin screw design with refrigerant gas cooled motor and integral oil filter and discharge gas muffler.

Complete thermal and electrical protection is provided.

Air-cooled condenser is constructed of fins mechanically bonded to seamless copper tubes. Coils are leak and pressure tested at 450 psig (3103 kPa).

Condenser fans are direct driven 11-blade, shrouded axial type, statically and dynamically balanced, discharging air vertically upward, protected by coated steel wire safety guards.

Condenser fan motors are totally enclosed 3-phase with permanently lubricated bearings and Class F insulation (except speed control motors).

Each refrigerant circuit includes oil separator, high side pressure relief device, liquid and discharge line shutoff valve, filter drier, moisture indicating sight glass, expansion/level control device.

Microprocessor control includes keypad with diagnostic display displaying set points, time, system status (including temperatures, pressures and % loading) and the alarm conditions.

Automatic compressor lead/lag.

Capacity control based on leaving chilled water temperature with return water temperature sensing.

7-Day time scheduling of pump(s) and chiller.

60-Hz Models: 080, 090, 106, 115, 125, 136, 151, 161, 176, 206, 226, 251, 265, 281, 301, 325, and 350

50-Hz Models: 080, 090, 105, 106, 115, 125, 136, 150, 160, 161, 175, 205, 225, 226, 250, 265, 281, 301, 325, and 350

PERFORMANCE DATA

UNIT

Capacity _____

Compressor Input Power _____ kW

Unit Power Input _____ kW

Minimum Outdoor Operating Temperature _____

Capacity Control Steps _____

Minimum Capacity % _____ %

EER _____

Entering Air Temperature _____

Weight _____

COOLER

Cooling Fluid _____

Entering Water Temperature _____

Leaving Water Temperature _____

Flow Rate _____

Pressure Drop _____

Fouling Factor _____

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Ph _____ Hz

Power Supply to Control Circuit _____ Volts _____ Ph _____ Hz

Minimum Amps Circuit 1 _____ Amps

Maximum Fuse Amps Circuit 1 _____ Amps

Control Circuit Fuse Amps _____ Amps

Maximum Instantaneous Current Flow _____ Amps

Minimum Amps Circuit 2 _____ Amps

Maximum Fuse Amps Circuit 2 _____ Amps

OPTIONS

☐ _____
☐ _____
☐ _____
☐ _____

☐ _____
☐ _____
☐ _____
☐ _____

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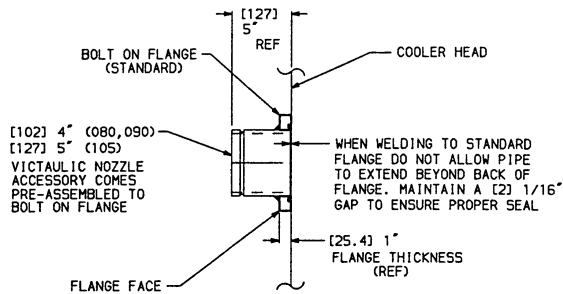


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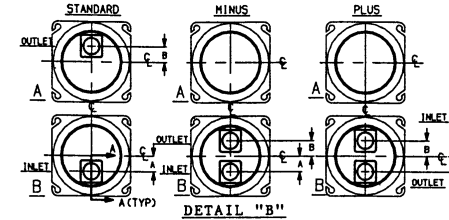
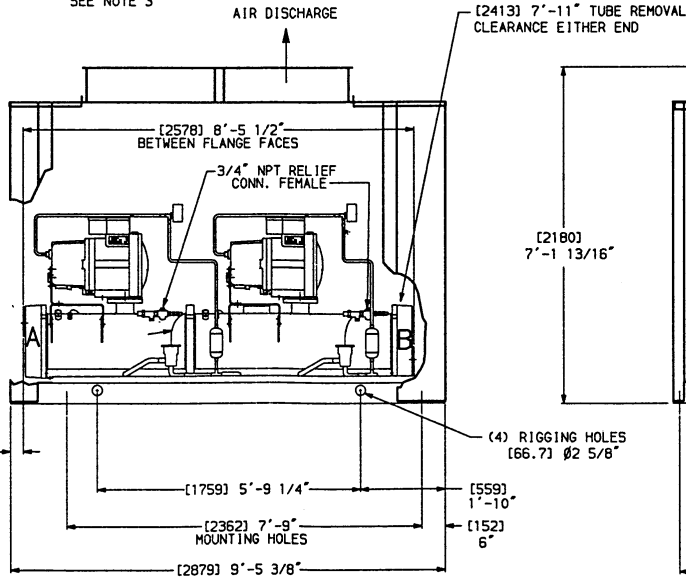
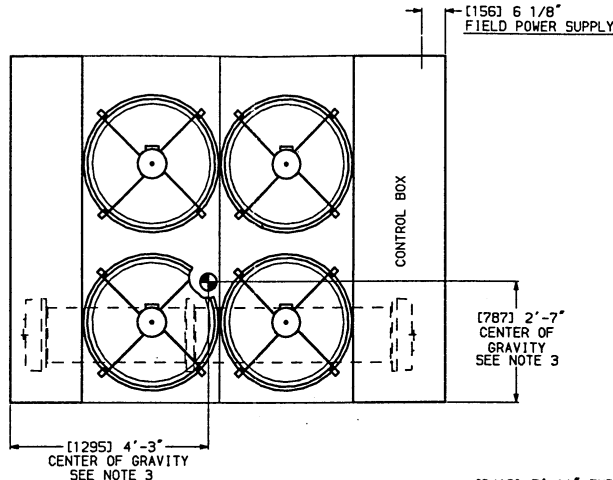
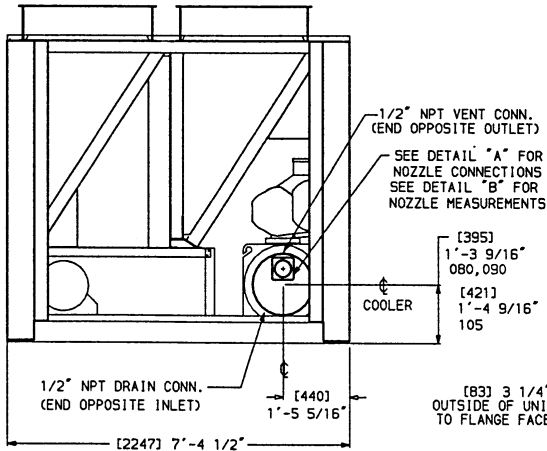
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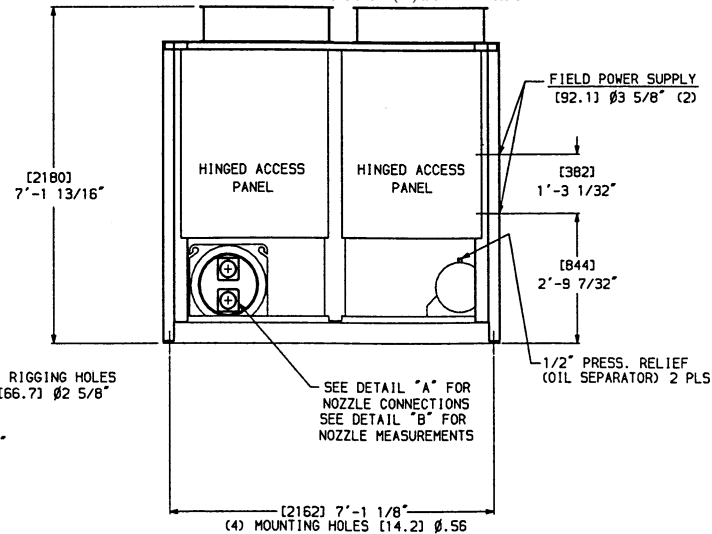
DETAIL "A"
NOZZLE CONNECTIONS

UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX080	6313	2764	6988	3170
30GX090	6333	2873	7008	3179
30GX105	6809	3089	7484	3395



UNIT		A		B		NUMBER OF PASSES	CONNECTION SIZES
		IN.	MM	IN.	MM		
30GX080,090	STD	4.68	119	4.68	119	3	4" (102)
30GX080,090	MINUS	4.68	119	4.68	119	2	4" (102)
30GX080,090	PLUS	4.68	119	4.68	119	4	4" (102)
30GX105	STD	5.14	131	5.14	131	3	5" (127)
30GX105	MINUS	5.14	131	5.14	131	2	5" (127)
30GX105	PLUS	5.14	131	5.14	131	4	5" (127)

- NOTES:
- Unit must have clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - [1524 mm] 5 ft (from solid surface)
Sides - [1829 mm] 6 ft
 - Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - [1829 mm] 6 ft
Sides - [2134 mm] 7 ft
 - Center of gravity shown is for aluminum fin coil.
See Installation Instructions for all other values.
Dimensions in () are in millimeters.
 -



DATE 05/17/99 SUPERSEDES 11/11/97

30GX080-105 AIR COOLED CHILLERS

30GX501580

REV B

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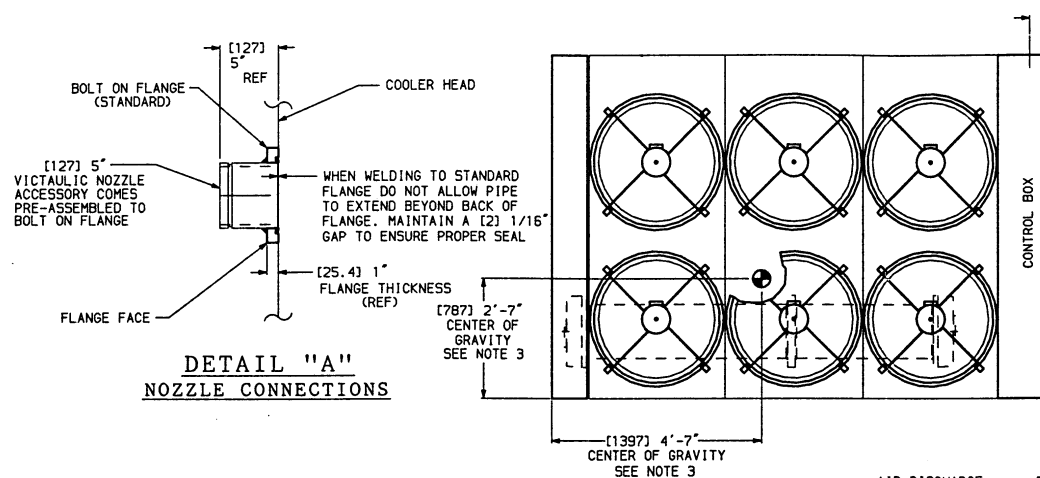


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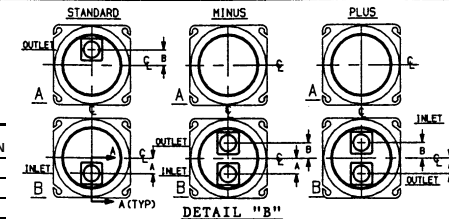
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[156] 6 1/8" FIELD POWER SUPPLY

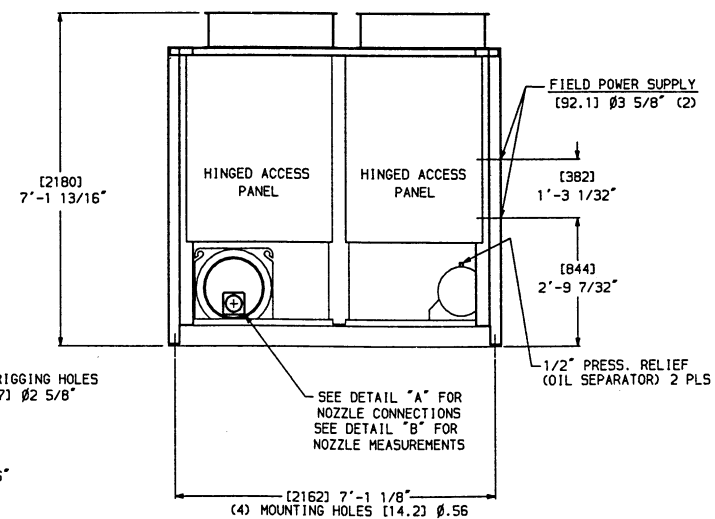
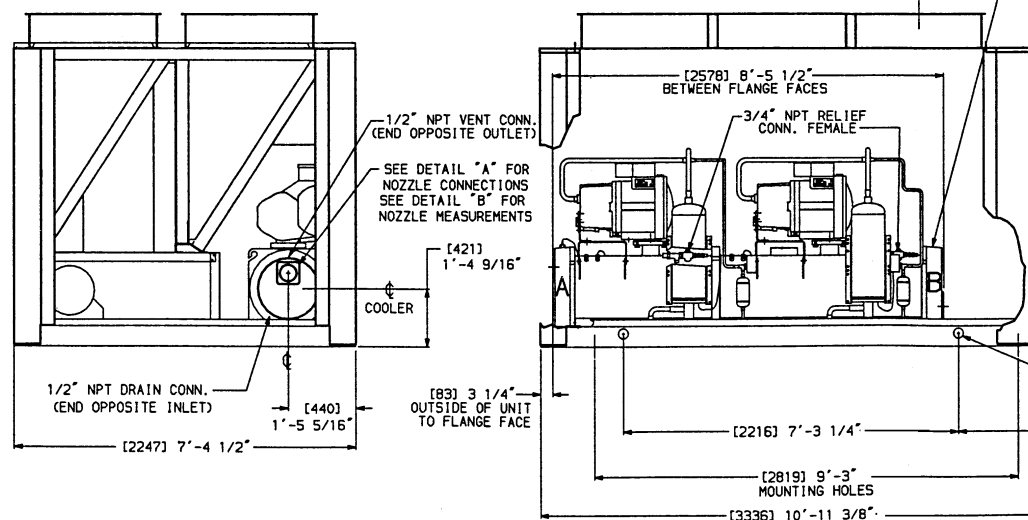
UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX106	7379	3347	8074	3662
30GX115	7389	3352	8084	3667
30GX125	7554	3426	8249	3742



UNIT		A		B		NUMBER OF PASSES	CONNECTION SIZES
		IN.	MM	IN.	MM		
30GX160,115,125	STD	5.14	131	5.14	131	3	5" (127)
30GX160,115,125	MINUS	5.14	131	5.14	131	2	5" (127)
30GX160,115,125	PLUS	5.14	131	5.14	131	4	5" (127)

NOTES:

- Unit must have clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - [1524 mm] 5 ft (from solid surface)
Sides - [1829 mm] 6 ft
- Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - [1829 mm] 6 ft
Sides - [2134 mm] 7 ft
- Center of gravity shown is for aluminum fin coil. See Installation Instructions for all other values.
- Dimensions in () are in millimeters.



DATE 05/17/98 SUPERSEDES 11/11/97

30GX106-125 AIR COOLED CHILLERS

30GX501581

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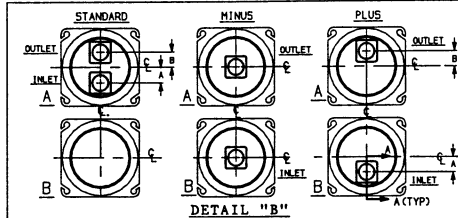


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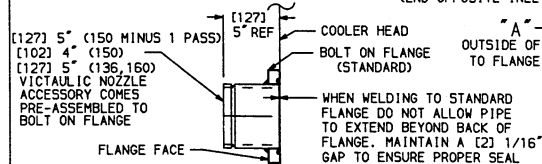
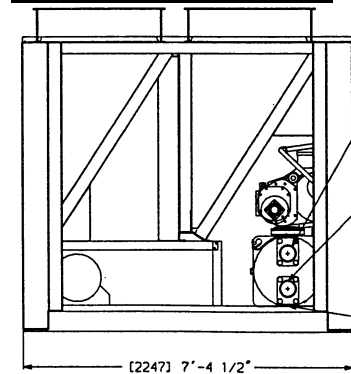
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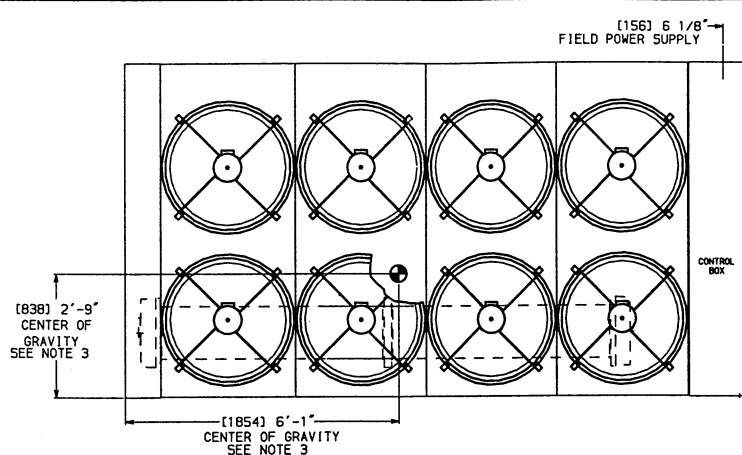
DETAIL "B"

UNIT		A	B	NUMBER OF PASSES	CONNECTION SIZES
30GX150	STD	4.68	119	2	4" (102)
30GX150	MINUS	—	—	1	4" (102)
30GX150	PLUS	4.68	119	3	4" (102)
30GX160	STD	5.14	131	2	5" (127)
30GX160	MINUS	—	—	1	5" (127)
30GX160	PLUS	5.14	131	3	5" (127)

UNIT	TOTAL OPERATING WEIGHT-ALUM FIN		TOTAL OPERATING WEIGHT -COPPER FIN	
	LB	KG	LB	KG
30GX136	8717	3954	9797	4444
30GX150	8550	3878	9630	4368
30GX160	8873	4025	9958	4517

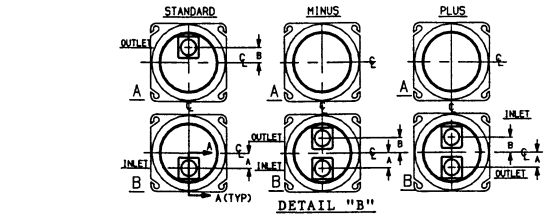
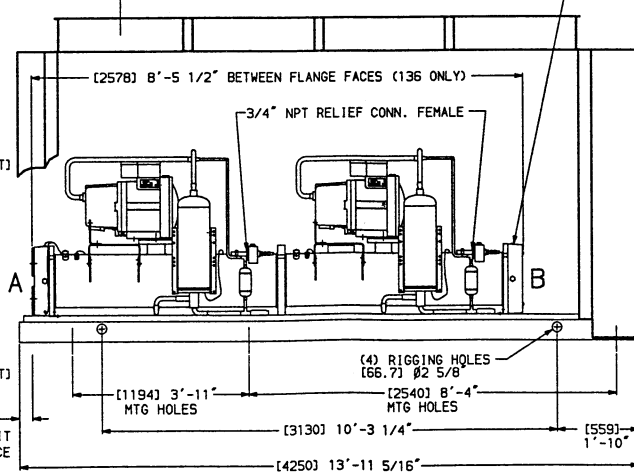


DETAIL "A"
NOZZLE CONNECTIONS



AIR DISCHARGE

[2413] 7'-11" TUBE REMOVAL (136)
[3200] 10'-2" TUBE REMOVAL (150, 160)
CLEARANCE EITHER END

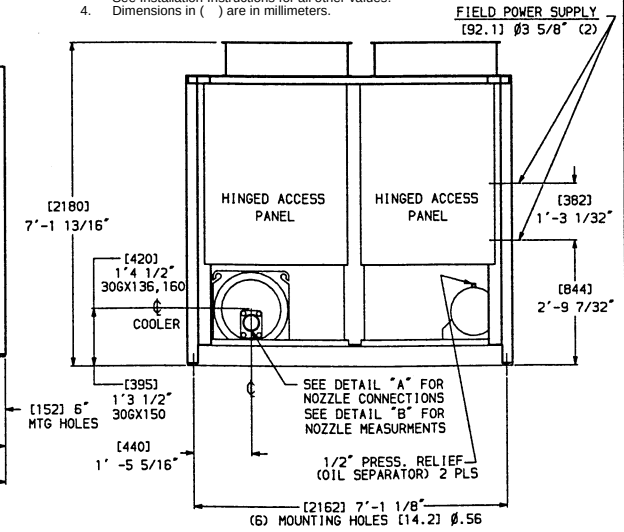


DETAIL "B"

UNIT		A	B	NUMBER OF PASSES	CONNECTION SIZES
30GX136	STD	5.14	131	3	5" (127)
30GX136	MINUS	5.14	131	2	5" (127)
30GX136	PLUS	5.14	131	4	5" (127)

NOTES:

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Top - Do not restrict in any way.
Ends - [1524 mm] 5 ft (from solid surface)
Sides - [1829 mm] 6 ft
- Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - [1829 mm] 6 ft
Sides - [2134 mm] 7 ft
- Center of gravity shown is for aluminum fin coil.
See Installation Instructions for all other values.
- Dimensions in () are in millimeters.



DATE	05/18/99	REVISIONS	11/11/97	30GX136,150,160 AIR COOLED CHILLERS	30GX501582	REV	C
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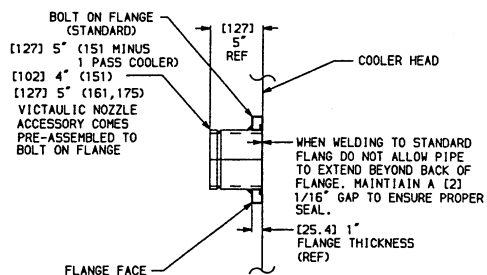


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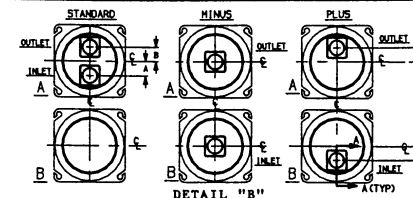
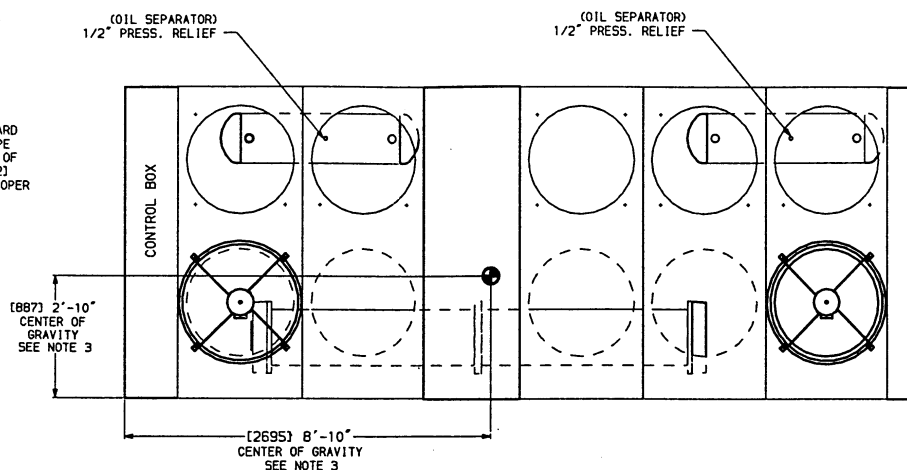
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DETAIL "A"
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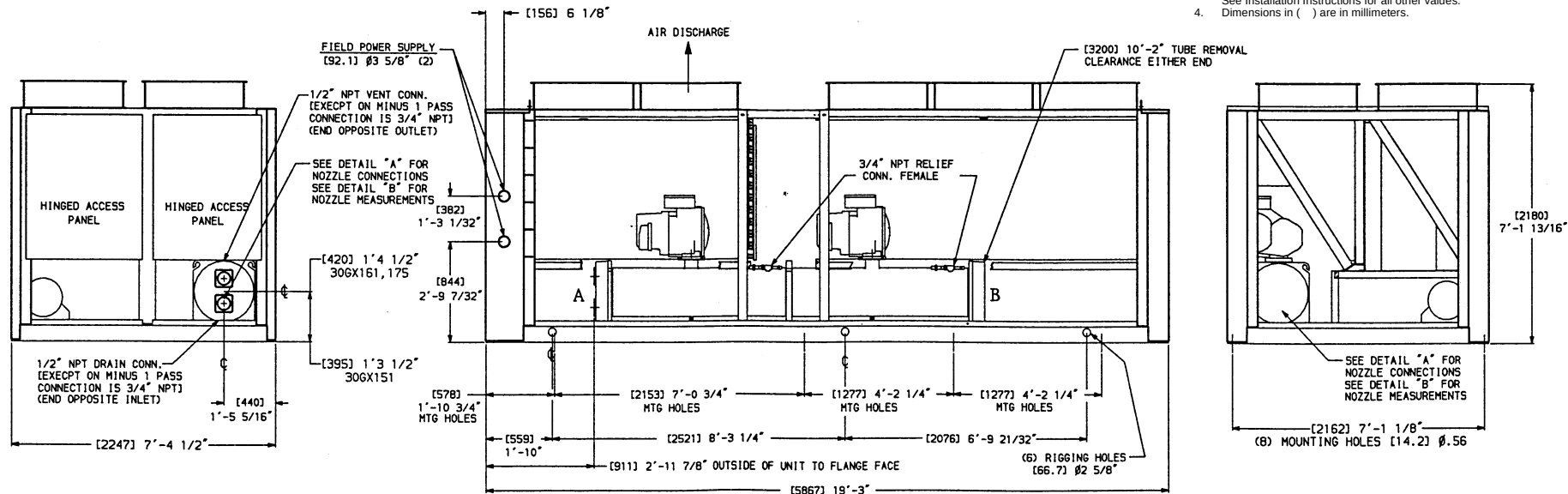
UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX151	9118	4136	10503	4764
30GX161	9445	4285	10831	4913
30GX175	9466	4294	10851	4922



UNIT		A		B		NUMBER OF PASSES	CONNECTION SIZES
		IN.	MM	IN.	MM		
30GX151	STD	4.68	119	4.68	119	2	4" (102)
30GX151	MINUS	—	—	—	—	1	4" (102)
30GX151	PLUS	4.68	119	4.68	119	3	4" (102)
30GX161,175	STD	5.14	131	5.14	131	2	5" (127)
30GX161,175	MINUS	—	—	—	—	1	5" (127)
30GX161,175	PLUS	5.14	131	5.14	131	3	5" (127)

NOTES:

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Top - Do not restrict in any way.
Ends - (1524 mm) 5 ft (from solid surface)
Sides - (1829 mm) 6 ft
- Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - (1829 mm) 6 ft
Sides - (2134 mm) 7 ft
- Center of gravity shown is for aluminum fin coil.
See installation instructions for all other values.
- Dimensions in () are in millimeters.



DATE 05/19/99
SUPERSEDES 02/26/99

30GX151,161,175 AIR COOLED CHILLERS

30GX501583

REV D

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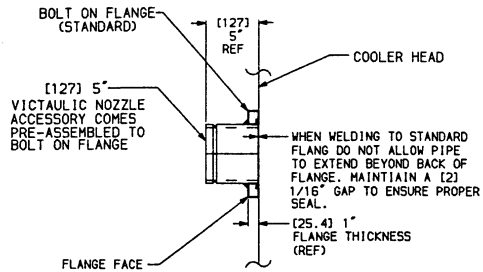


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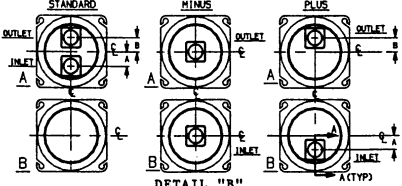
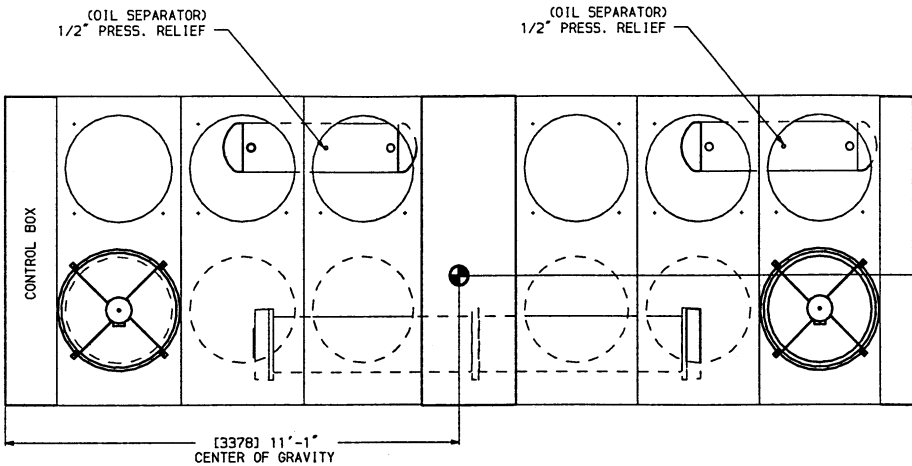
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DETAIL "A"
NOZZLE CONNECTIONS

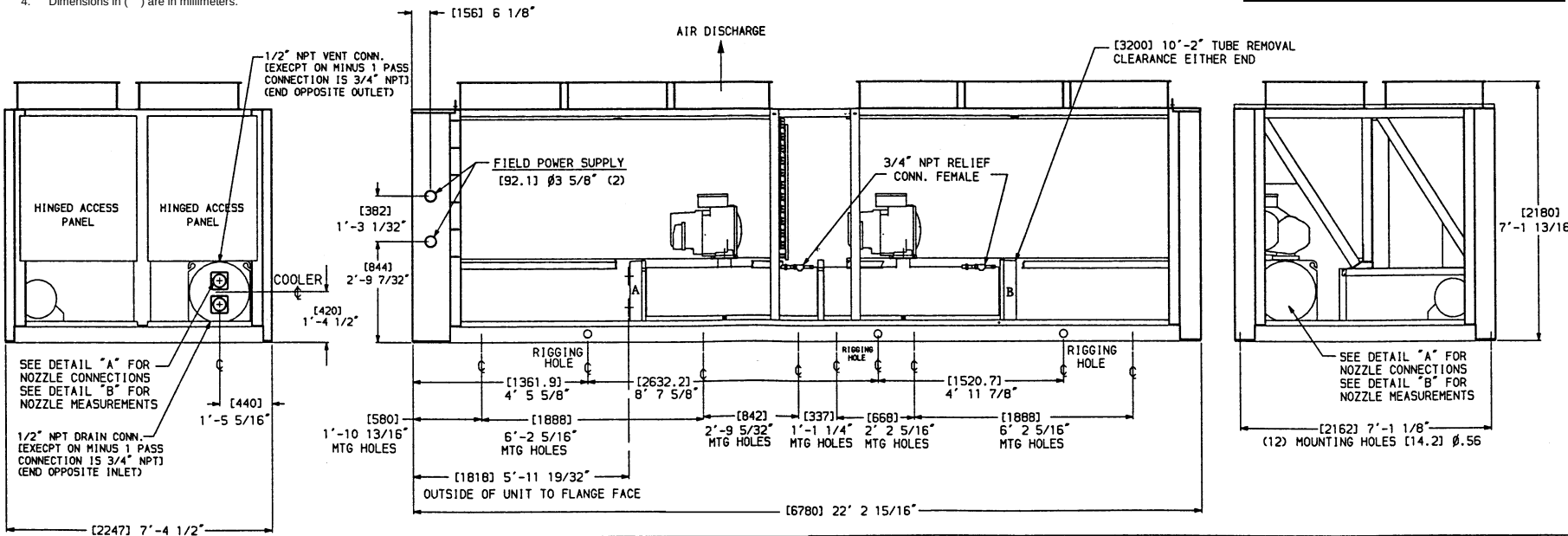
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Top - Do not restrict in any way.
Ends - [1524 mm] 5 ft (from solid surface)
Sides - [1829 mm] 6 ft
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Top - Do not restrict in any way.
Ends - [1829 mm] 6 ft
Sides - [2134 mm] 7 ft
- Center of gravity shown is for aluminum fin coil.
See Installation Instructions for all other values.
- Dimensions in () are in millimeters.



UNIT	A		B		NUMBER OF PASSES	CONNECTION SIZES
	IN.	MM	IN.	MM		
STD	5.14	131	5.14	131	2	5" (127)
MINUS	—	—	—	—	1	5" (127)
PLUS	5.14	131	5.14	131	3	5" (127)

UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX176	10056	4561	11421	5180



DATE 05/19/99 SUPERSEDES 11/11/97

30GX176 AIR COOLED CHILLER

30GX501585

REV B

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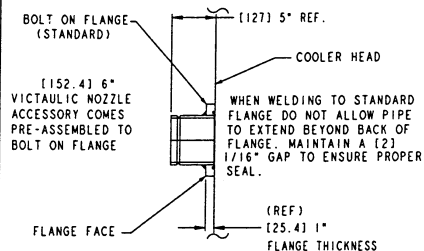
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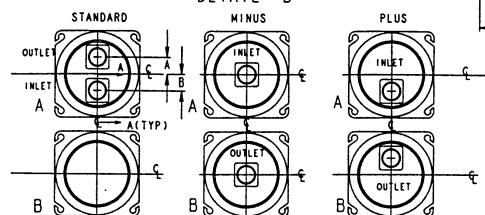
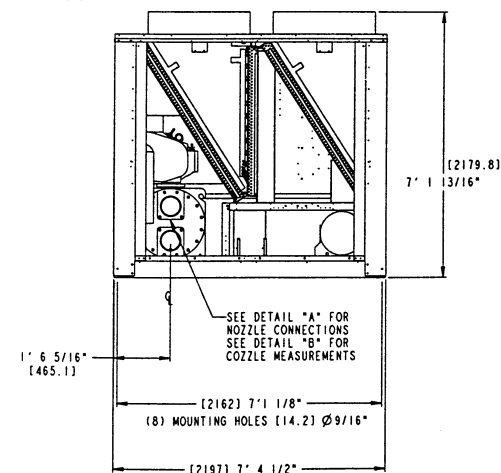
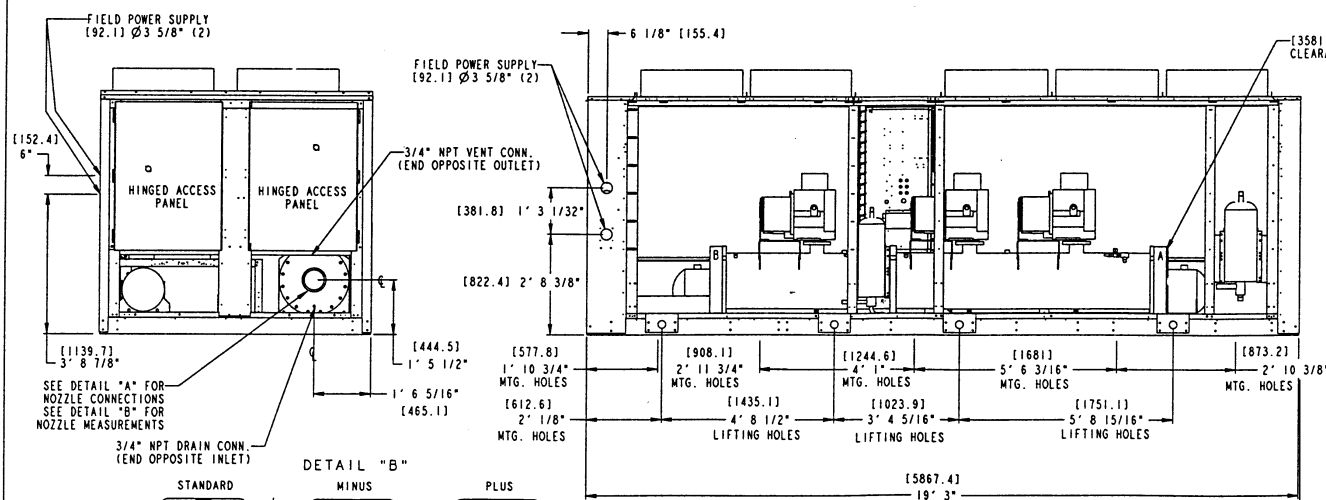
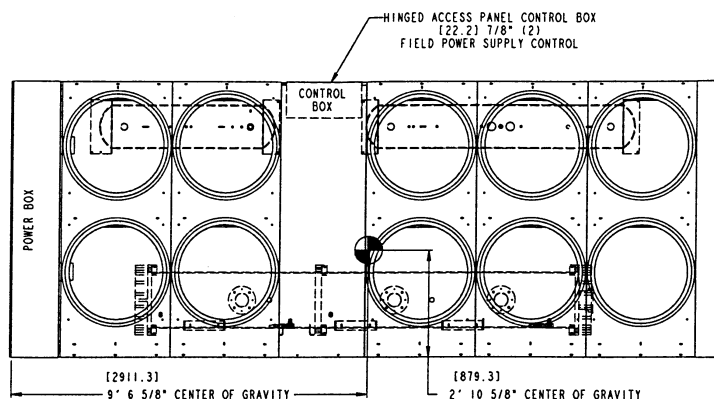
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Sides - [1829 mm] 6 ft
- Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - [1829 mm] 6 ft
Sides - [2134 mm] 7 ft
- Center of gravity shown is for aluminum fin coil.
See Installation Instructions for all other values.
- Dimensions in () are in millimeters.

UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX205	12184	5538	13569	6168
30GX205	12364	5620	13749	6250



DETAIL "A"
NOZZLE CONNECTIONS



UNIT		A		B		NUMBER OF PASSES	CONNECTION SIZES
		IN.	MM	IN.	MM		
30GX205,225	STD	5.53	140	5.53	140	2	6\" (152)
30GX205,225	MINUS	—	—	—	—	1	6\" (152)
30GX205,225	PLUS	5.53	140	5.53	140	3	6\" (152)

DATE	SUPERCEDES	30GX205,225 AIR COOLED CHILLERS	30GX502154	REV
05/20/99	05/14/99			B

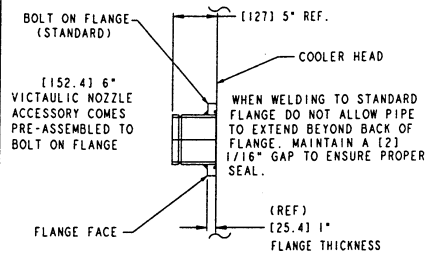
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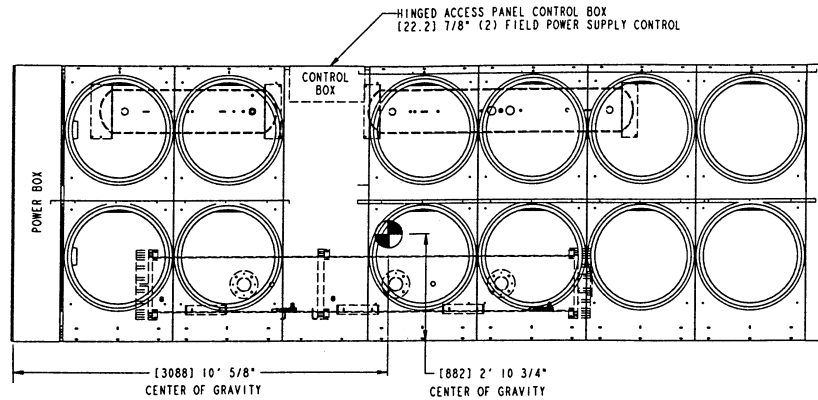
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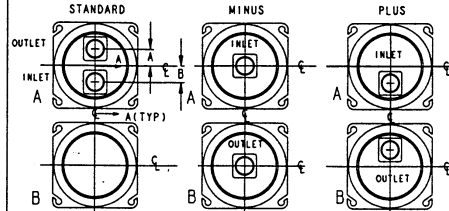
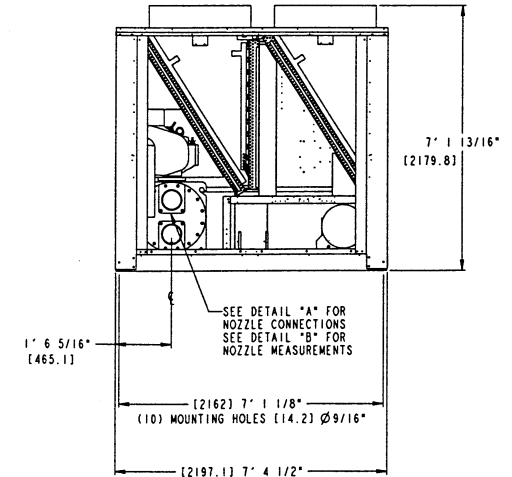
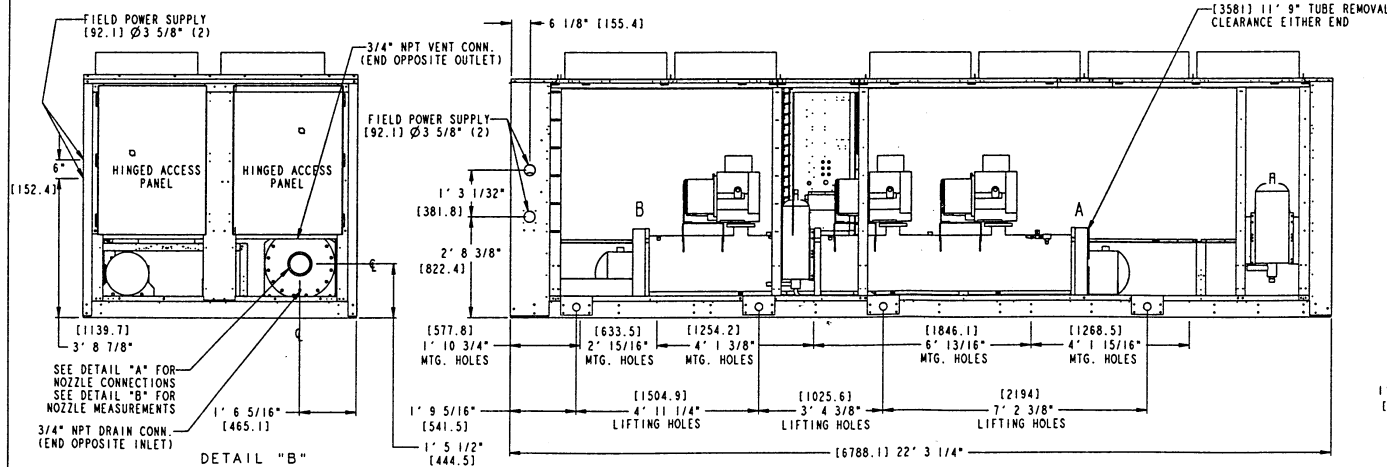
DETAIL "A"
NOZZLE CONNECTIONS



NOTES:

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Top - Do not restrict in any way.
Ends - (1524 mm) 5 ft (from solid surface)
Sides - (1829 mm) 6 ft
- Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - (1829 mm) 6 ft
Sides - (2134 mm) 7 ft
- Center of gravity shown is for aluminum fin coil.
See Installation Instructions for all other values.
- Dimensions in () are in millimeters.

UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX206	12794	5815	14462	6574
30GX226	12974	5897	14642	6655
30GX250	13194	5997	14862	6755



UNIT		A		B		NUMBER OF PASSES	CONNECTION SIZES
		IN.	MM	IN.	MM		
30GX206,226,250	STD	5.53	140	5.53	140	2	6" (152)
30GX206,226,250	MINUS	—	—	—	—	1	6" (152)
30GX206,226,250	PLUS	5.53	140	5.53	140	3	6" (152)

DATE	SUPERCEDES	30GX206,226,250 AIR COOLED CHILLERS	30GX502153	REV
05/20/99	05/14/99			B

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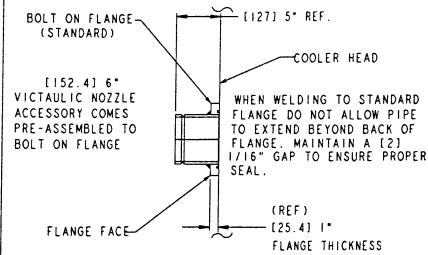


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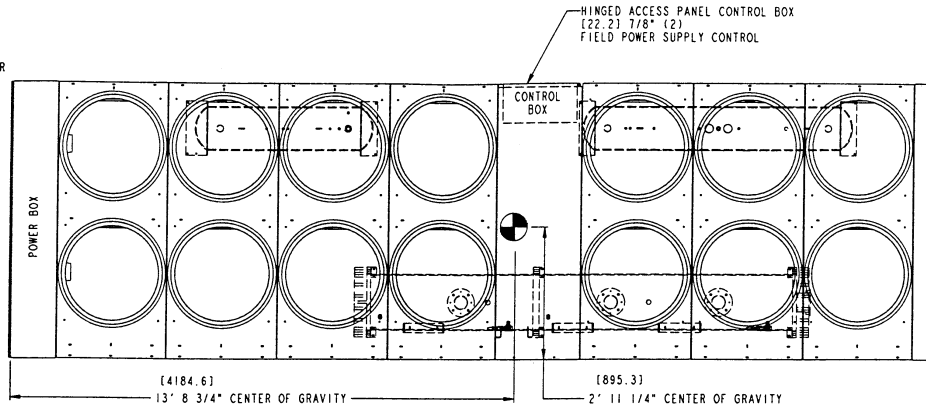
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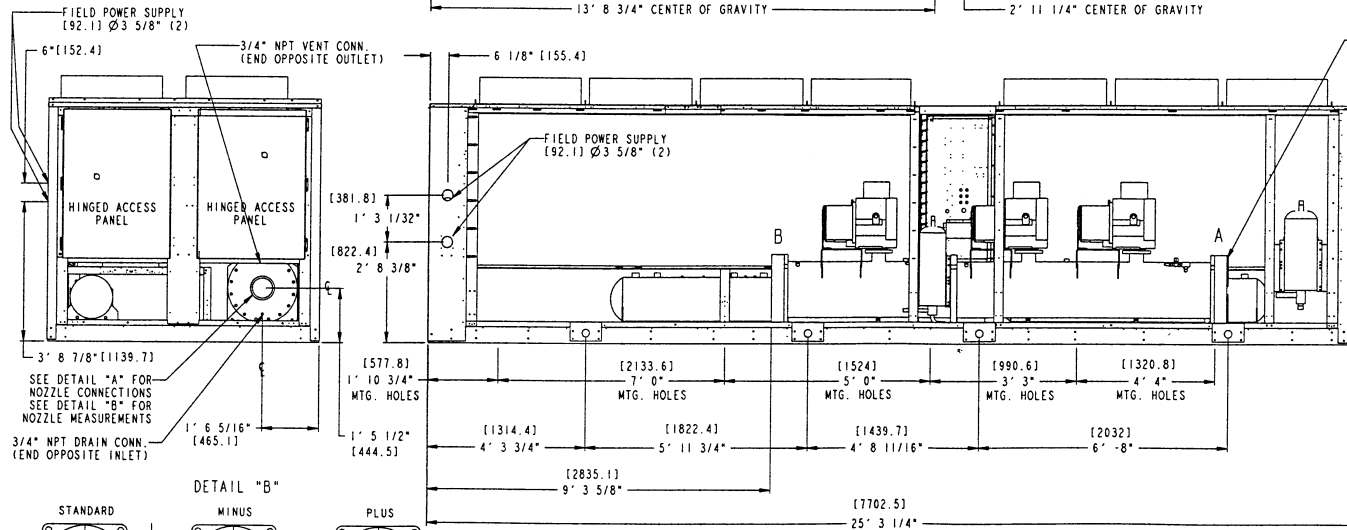
DETAIL "A"
NOZZLE CONNECTIONS



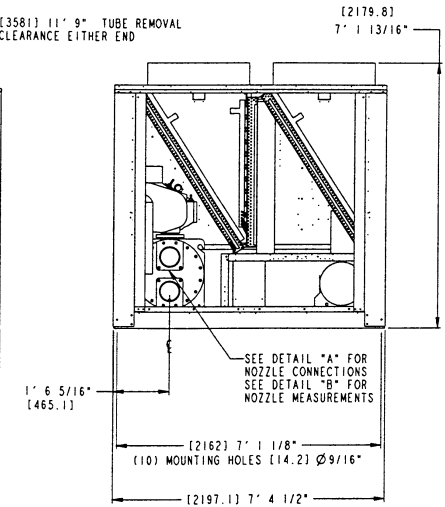
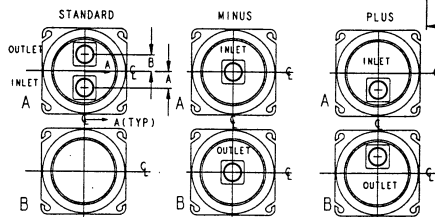
NOTES:

- Unit must have clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - (1524 mm) 5 ft (from solid surface)
Sides - (1829 mm) 6 ft
- Unit with sound hoods requires clearances for airflow as follows:
Top - Do not restrict in any way.
Ends - (1829 mm) 6 ft
Sides - (2134 mm) 7 ft
- Center of gravity shown is for aluminum fin coil.
See Installation Instructions for all other values.
- Dimensions in () are in millimeters.

UNIT	TOTAL OPERATING WEIGHT - ALUM FIN		TOTAL OPERATING WEIGHT - COPPER FIN	
	LB	KG	LB	KG
30GX251	13774	6621	15549	7068
30GX265	13829	6286	15604	7093



DETAIL "B"



UNIT		A		B		NUMBER OF PASSES	CONNECTION SIZES
		IN.	MM	IN.	MM		
30GX251,265	STD	5.53	140	5.53	140	2	6" (127)
30GX251,265	MINUS	—	—	—	—	1	6" (127)
30GX251,265	PLUS	5.53	140	5.53	140	3	6" (127)

DATE	SUPERCEDES			REV
05/20/99	05/14/99	30GX251,265 AIR COOLED CHILLERS	30GX502152	B

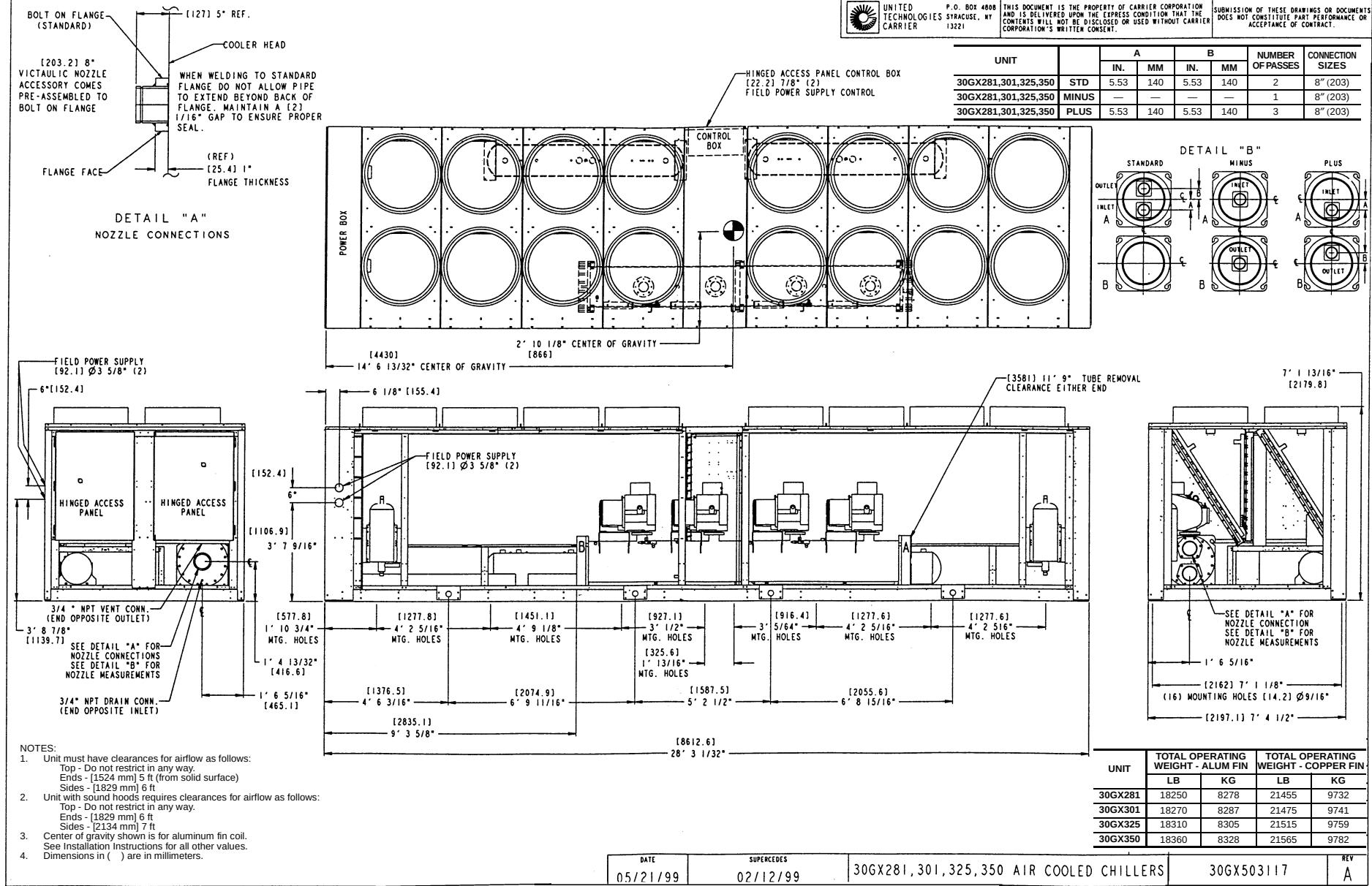
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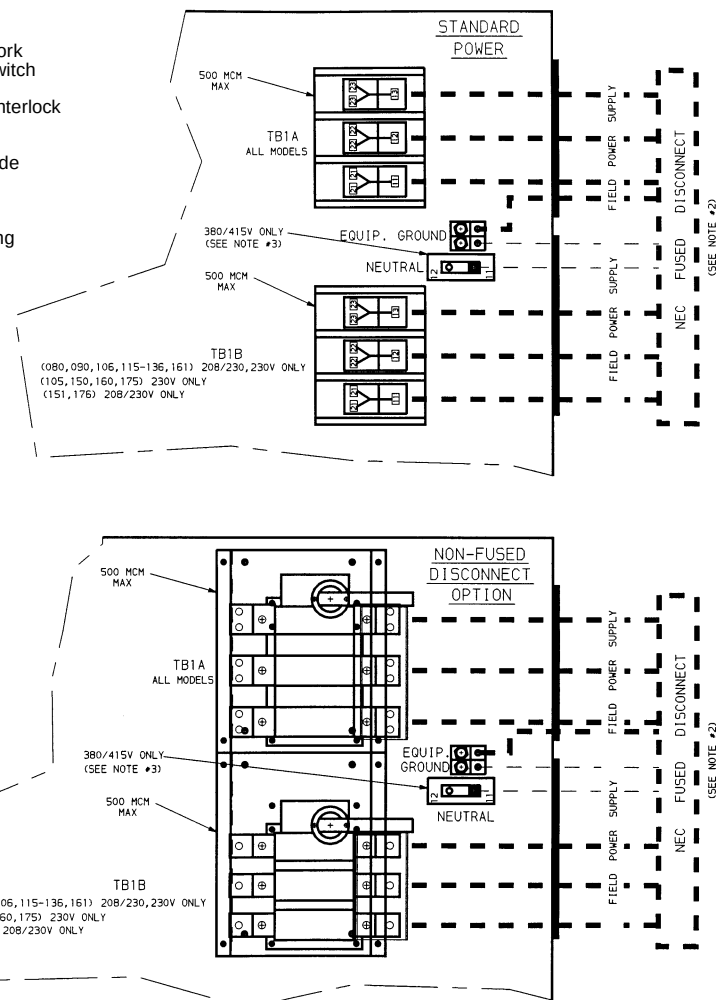


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1. Factory wiring is in accordance with National Electrical Code (NEC). Field modifications or additions must be in compliance with all applicable codes.
2. Wiring for main field power supply must be rated 75° C minimum. Use copper for all units. Maximum incoming wire size for each terminal block is 500 kcmil.
3. Power for control circuit should be supplied from a separate source through a field-supplied fused disconnect with 30-amp maximum protection for 115-volt control circuits and 15-amp maximum protection for 230-volt control circuit. Connect control circuit power to terminals 1 and 2 of TB4. Connect neutral side of supply to terminal 2 of TB4. Control circuit conductors for all units must be copper only. 380/415-volt control power wired at factory. Requires field-supplied neutral connection.
4. Terminals 13 and 14 of TB2 are for field external connection for remote ON-OFF. The contacts must be rated for dry circuit application capable of handling a 24 vac to 50 mA load. Remove jumper between 13 and 14 of TB2 if remote ON-OFF is installed.
5. Terminals 11 and 12 of TB2 are for chilled water flow switch (CWFS) and chilled water pump interlock (CWPI) functions. The contacts must be rated for dry circuit application capable of handling a 24 vac to 50 mA load.
6. Terminals T3 and T4 on relay board are for chilled water pump. The maximum load allowed for the chilled water pump relay is 125 va sealed, 1250 va inrush at 115 or 230 volt.

CCN	—	Carrier Comfort Network
CWFS	—	Chilled Water Flow Switch
CWP	—	Chilled Water Pump
CWPI	—	Chilled Water Pump Interlock
EQUIP	—	Equipment
GND	—	Ground
NEC	—	National Electrical Code
TB	—	Terminal Block
----		Field Power Wiring
----		Field Control Wiring
=====		Factory Installed Wiring



DATE	SUPERSEDES		RE
03/04/97	11/04/96	30GX080-176 LIQUID CHILLERS FIELD WIRING DIAGRAM	30GX501584 A

FIELD WIRING DIAGRAM 30GX205-350



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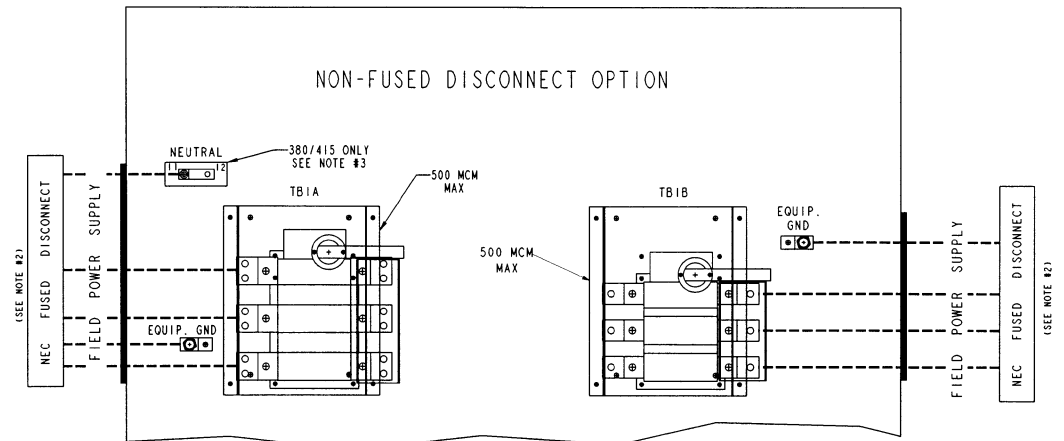
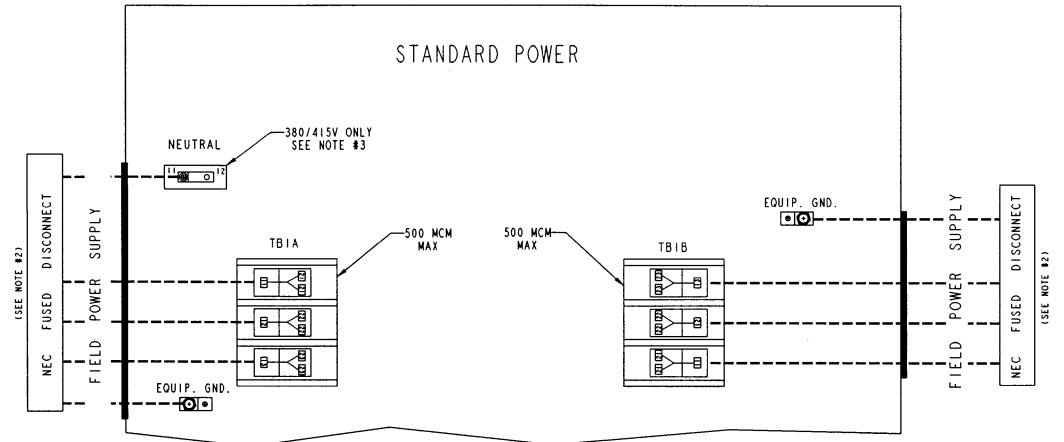
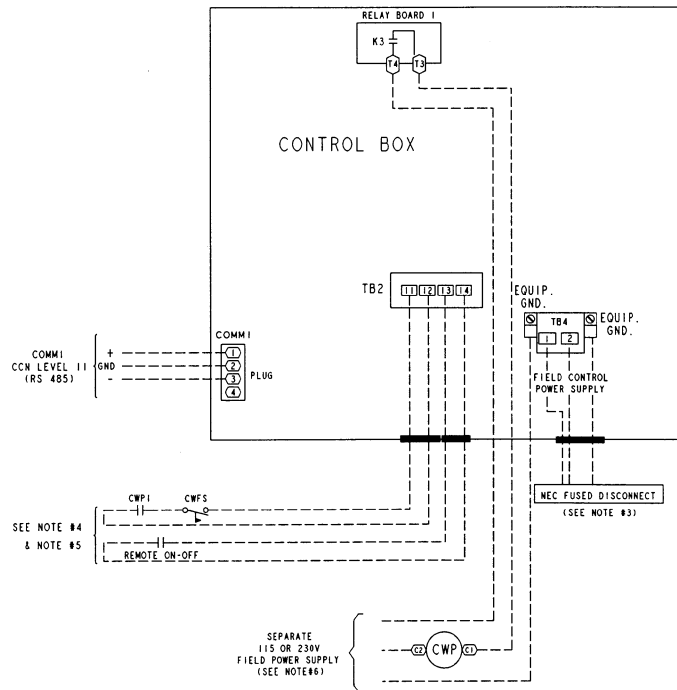
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NOTES:

1. Factory wiring is in accordance with National Electrical Code (NEC). Field modifications or additions must be in compliance with all applicable codes.
2. Wiring for main field power supply must be rated 75° C minimum. Use copper for all units. Maximum incoming wire size for each terminal block is 500 kcmil.
3. Power for control circuit should be supplied from a separate source through a field-supplied fused disconnect with 30-amp maximum protection for 115-volt control circuits and 15-amp maximum protection for 230-volt control circuit. Connect control circuit power to terminals 1 and 2 of TB4. Connect neutral side of supply to terminal 2 of TB4. Control circuit conductors for all units must be copper only. 380/415-volt control power wired at factory. Requires field-supplied neutral connection.
4. Terminals 13 and 14 of TB2 are for field external connection for remote ON-OFF. The contacts must be rated for dry circuit application capable of handling a 24 vac to 50 mA load.
5. Terminals 11 and 12 of TB2 are for chilled water flow switch (CWFS) and chilled water pump interlock (CWPI) functions. The contacts must be rated for dry circuit application capable of handling a 24 vac to 50 mA load.
6. Terminals T3 and T4 on relay board are for chilled water pump. The maximum load allowed for the chilled water pump relay is 125 va sealed, 1250 va inrush at 115 or 230 volt. Minimum load required is 25 va sealed.

LEGEND

CCN	— Carrier Comfort Network	NEC	— National Electrical Code
CWFS	— Chilled Water Flow Switch	TB	— Terminal Block
CWP	— Chilled Water Pump	---	— Field Power Wiring
CWPI	— Chilled Water Pump Interlock	---	— Field Control Wiring
EQUIP	— Equipment	---	— Factory Installed Wiring
GND	— Ground		



DATE 2/15/99	SUPERSEDES -	30GX205-350 AIR COOLED CHILLER FIELD WIRING DIAGRAM	30GX502155	REV A
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