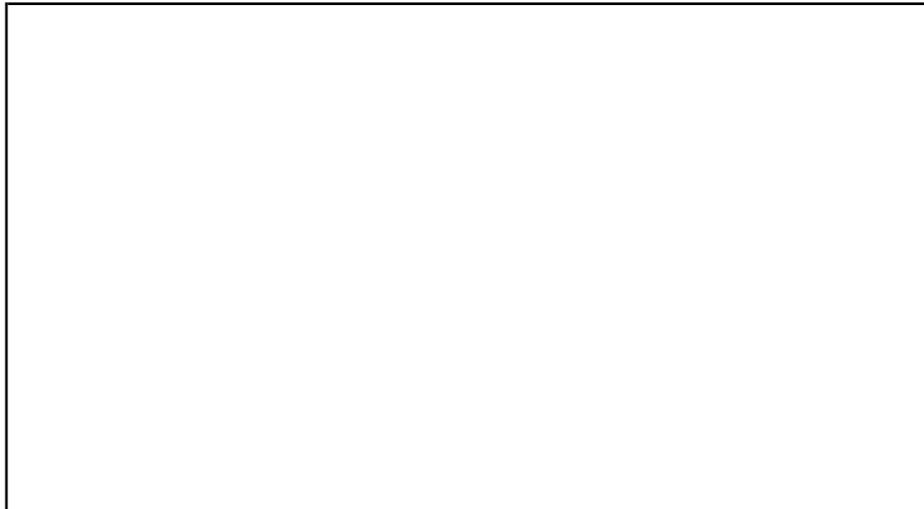




30GX080-265
AIR-COOLED LIQUID CHILLER

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



| | | | | |
|--------------------------------|---------------|--|-------|---------------|
| Date: | Supersedes: | 30GX080-265 AIR-COOLED LIQUID CHILLER | 30GX | Rev.: -4SB |
| 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 recommended 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, and 265.

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

PERFORMANCE DATA

UNIT

Capacity _____

Compressor Input Power _____ kW

Unit Input Power _____ kW

Minimum Outdoor Operating Temperature _____

Capacity Control Steps _____

Minimum Capacity % _____ %

EER _____

Entering Air Temperature _____

Weight _____

COOLER

Cooler Fluid _____

Entering Fluid Temperature _____

Leaving Fluid 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

- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |

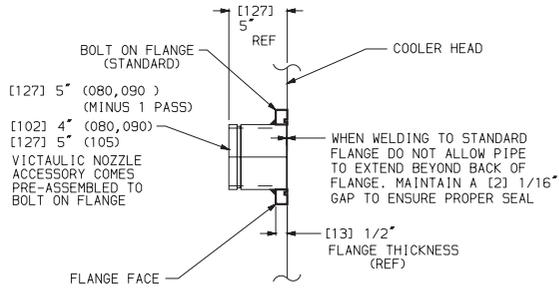
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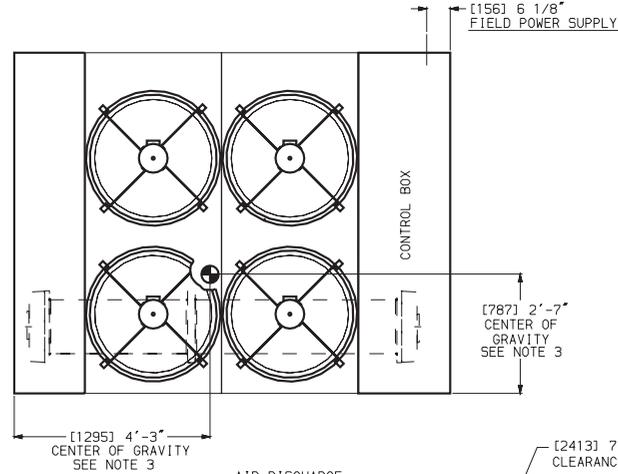
P. O. BOX 4808
SYRACUSE N. Y.
13221

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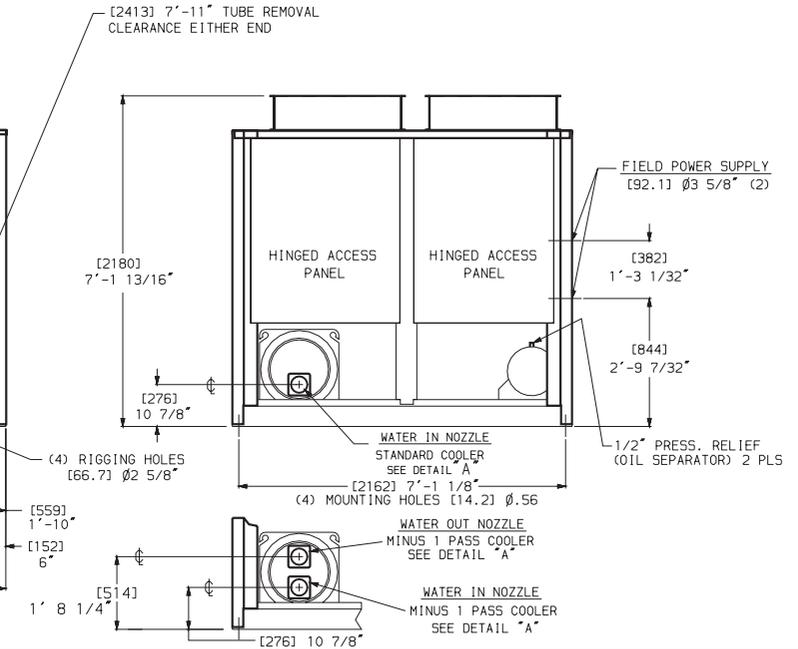
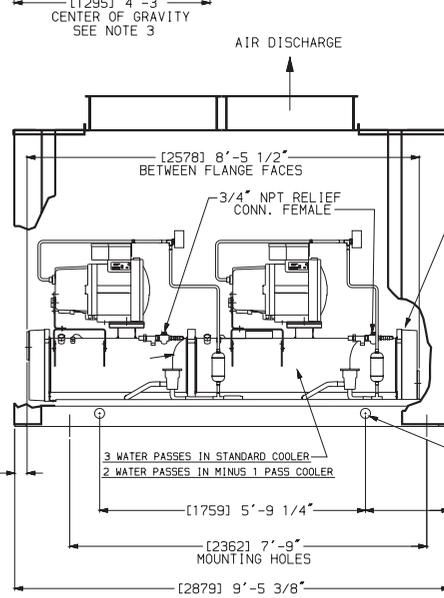
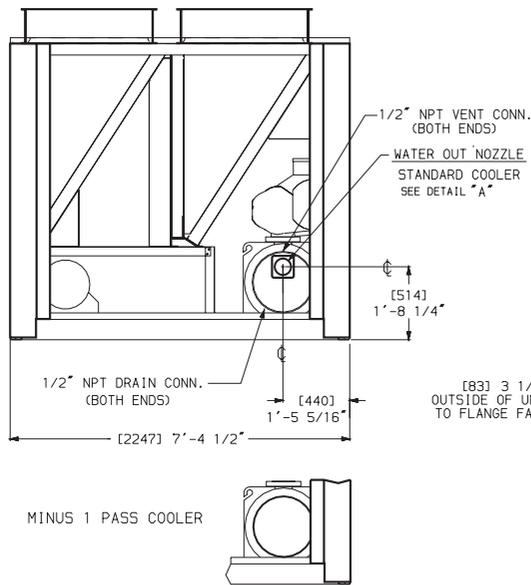
DETAIL "A"
NOZZLE CONNECTIONS



| UNIT | TOTAL OPERATING WEIGHT - AL | TOTAL OPERATING WEIGHT - CU |
|---------|-----------------------------|-----------------------------|
| 30GX080 | 6313 LB | 6988 LB |
| 30GX090 | 6333 LB | 7008 LB |
| 30GX105 | 6809 LB | 7484 LB |

NOTES:

- UNIT MUST HAVE CLEARANCES FOR AIR FLOW 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 AIR FLOW 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.



| DATE | SUPERSEDES |
|----------|------------|
| 11/11/97 | 11/04/96 |

30GX080-105 AIR COOLED CHILLERS

30GX501580 REV A

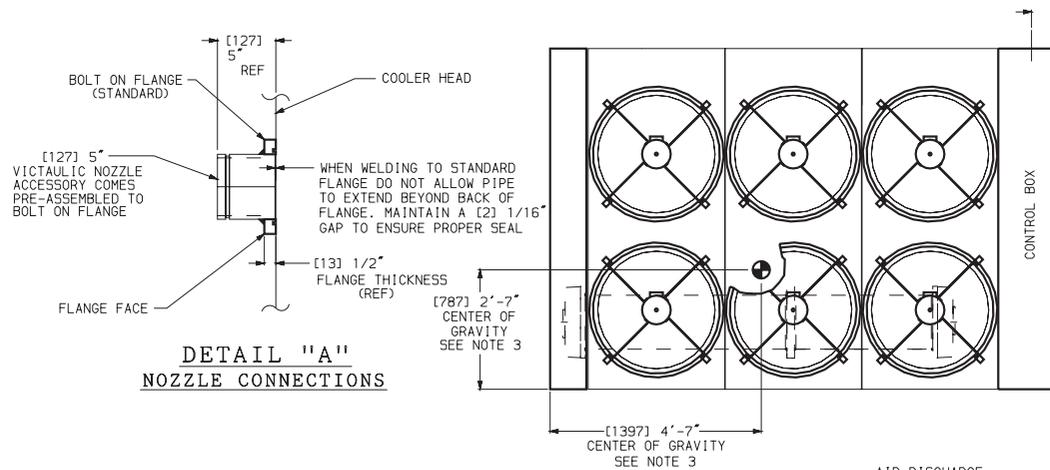
CERTIFIED DIMENSION PRINT



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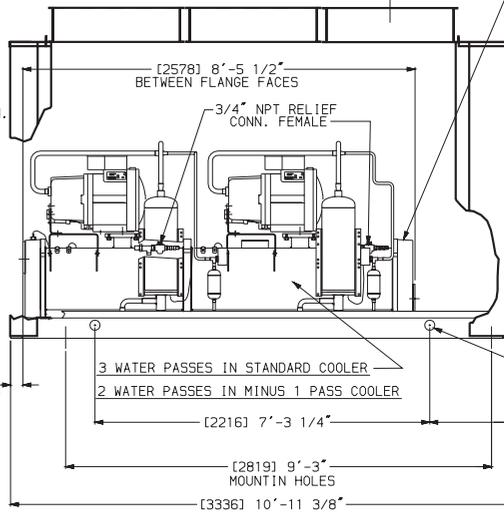
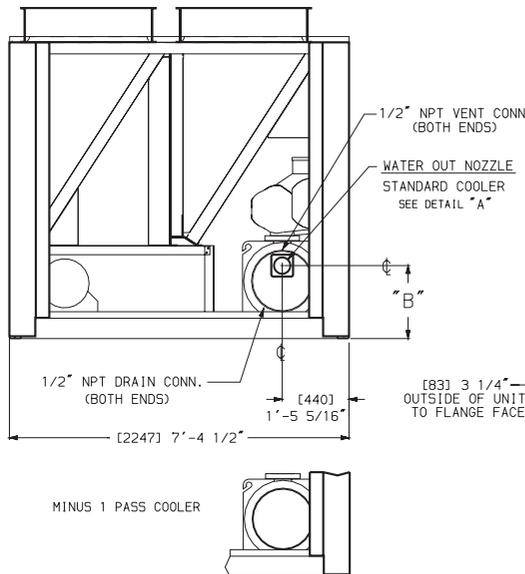
[156] 6 1/8" FIELD POWER SUPPLY

| UNIT | A | B |
|---------|----------------|-------------------|
| 306X106 | [276] 10 7/8" | [514] 1'-8 1/4" |
| 306X115 | [290] 11 7/16" | [551] 1'-9 11/16" |
| 306X125 | [290] 11 7/16" | [551] 1'-9 11/16" |

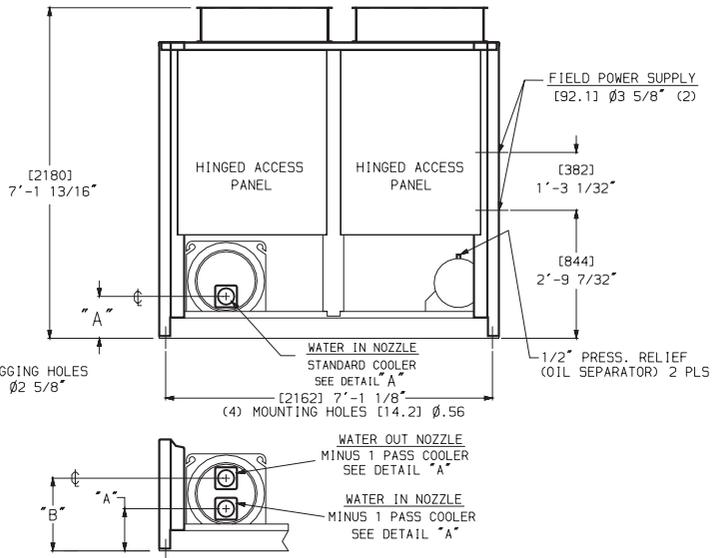
| UNIT | TOTAL OPERATING WEIGHT - AL | TOTAL OPERATING WEIGHT - CU |
|---------|-----------------------------|-----------------------------|
| 306X106 | 7379 LB | 8074 LB |
| 306X115 | 7369 LB | 8084 LB |
| 306X125 | 7554 LB | 8249 LB |

NOTES:

- UNIT MUST HAVE CLEARANCES FOR AIR FLOW 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 AIR FLOW 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.



[2413] 7'-11" TUBE REMOVAL CLEARANCE EITHER END



DATE 11/11/97 SUPERSEDES 11/04/96

30GX106-125 AIR COOLED CHILLERS

30GX501581 REV A

CERTIFIED DIMENSION PRINT

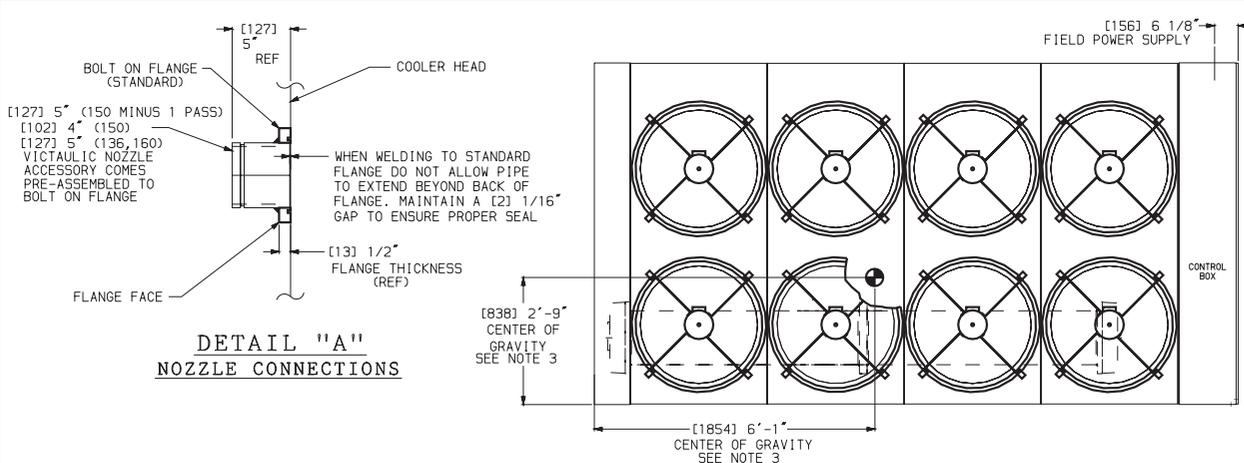


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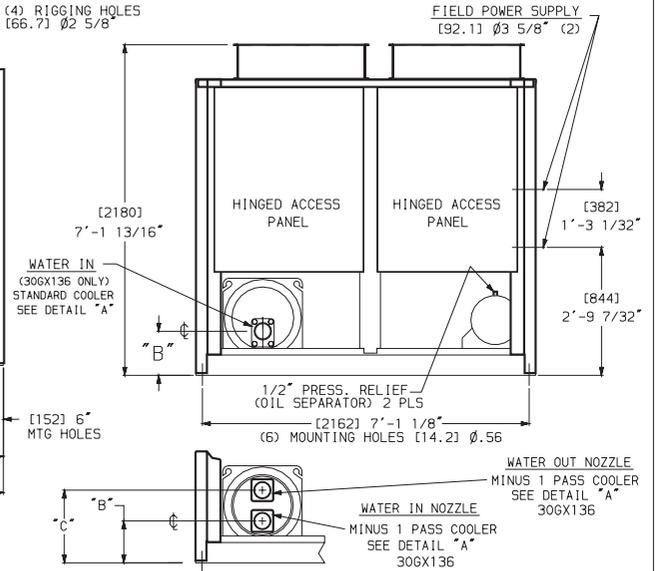
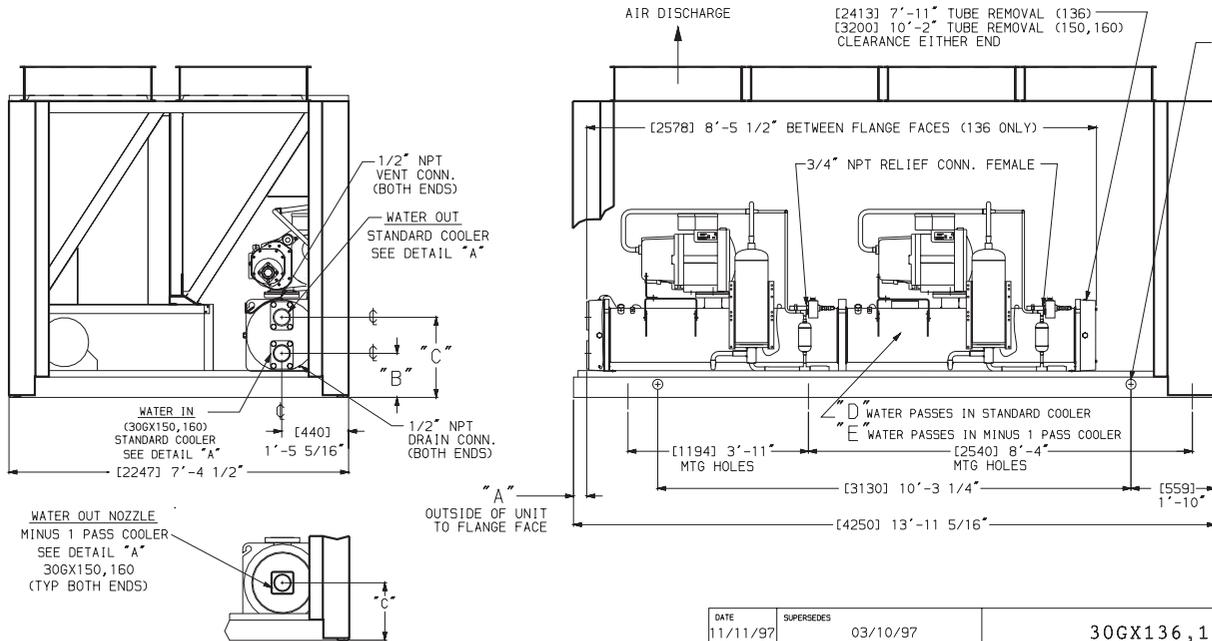
**DETAIL "A"
NOZZLE CONNECTIONS**

| UNIT | A | B STANDARD COOLER | C STANDARD COOLER | B MINUS 1 PASS COOLER | C MINUS 1 PASS COOLER | D | E |
|---------|-------------------------------|---------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|---|---|
| 30GX136 | [83] 3 1/4" [102] 4" (150) | [290] 11 7/16" [276] 10 7/8" | [551] 1'-9 11/16" [514] 1'-8 1/4" | [290] 11 7/16" [395] 1'-3 1/2" | [551] 1'-9 11/16" [420] 1'-4 1/2" | 3 | 2 |
| 30GX150 | [92] 3 5/8" | [290] 11 7/16" [276] 10 7/8" | [551] 1'-9 11/16" [514] 1'-8 1/4" | - | [420] 1'-4 1/2" | 2 | 1 |
| 30GX160 | [92] 3 5/8" | [290] 11 7/16" [276] 10 7/8" | [551] 1'-9 11/16" [514] 1'-8 1/4" | - | [420] 1'-4 1/2" | 2 | 1 |

| UNIT | TOTAL OPERATING WEIGHT - AL | TOTAL OPERATING WEIGHT - CU |
|---------|-----------------------------|-----------------------------|
| 30GX136 | 8717 LB | 9797 LB |
| 30GX150 | 8550 LB | 9630 LB |
| 30GX160 | 8873 LB | 9958 LB |

NOTES:

- UNIT MUST HAVE CLEARANCES FOR AIR FLOW 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 AIR FLOW 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.



| | | | | |
|------------------|----------------------|---------------------------------------|------------|----------|
| DATE 11/11/97 | SUPSEDES 03/10/97 | 30GX136, 150, 160 AIR COOLED CHILLERS | 30GX501582 | REV B |
|------------------|----------------------|---------------------------------------|------------|----------|

CERTIFIED DIMENSION PRINT

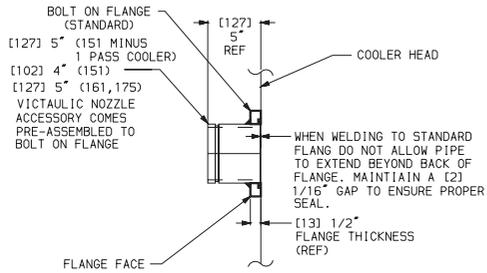


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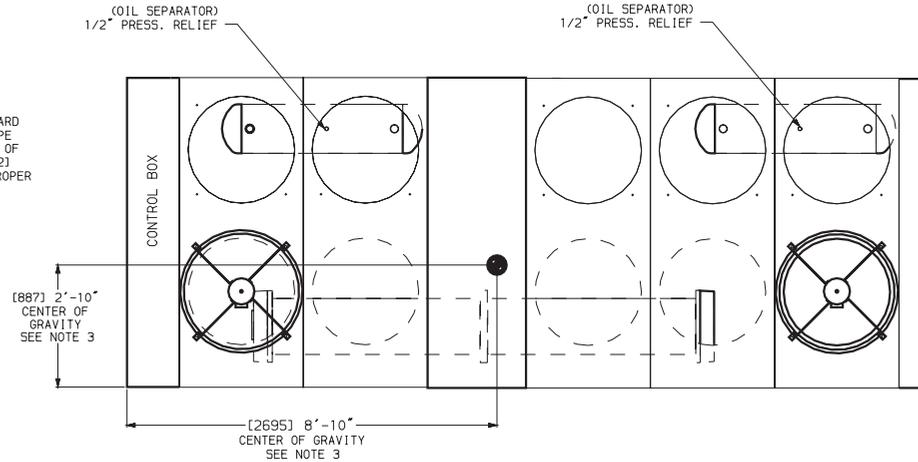
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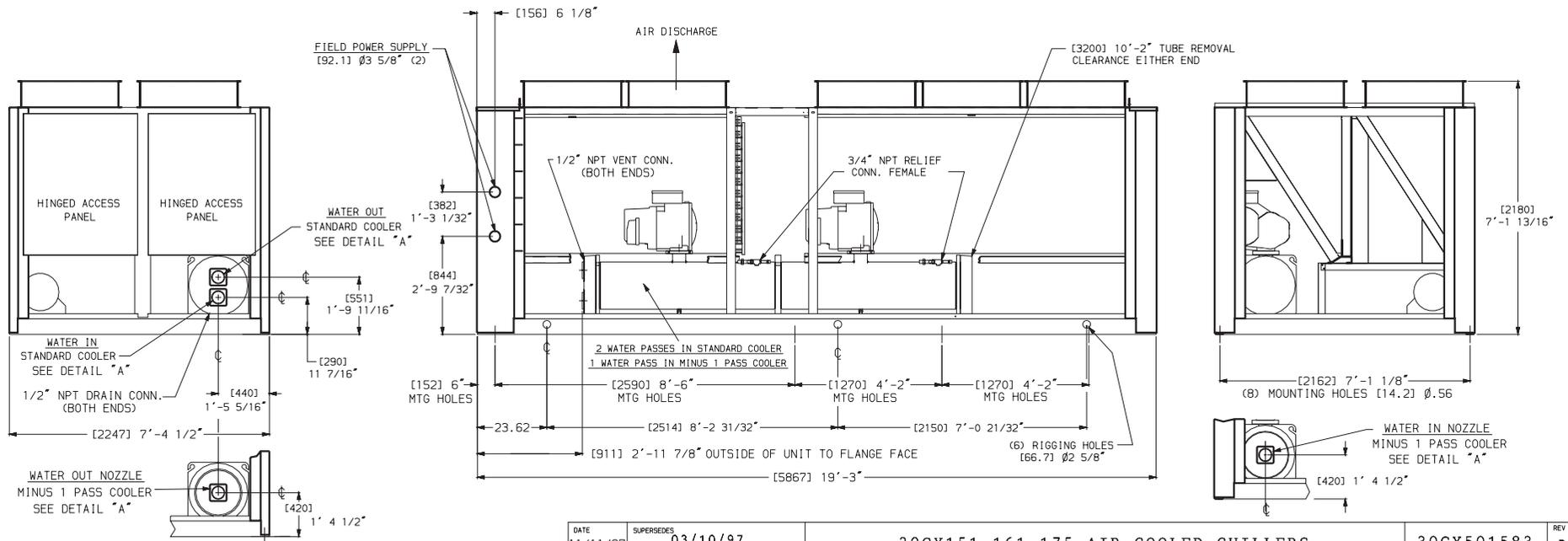
DETAIL "A"
NOZZLE CONNECTIONS



| UNIT | TOTAL OPERATING WEIGHT - AL | TOTAL OPERATING WEIGHT - CU |
|---------|-----------------------------|-----------------------------|
| 30GX151 | 9118 LB | 10503 LB |
| 30GX161 | 9446 LB | 10831 LB |
| 30GX175 | 9466 LB | 10851 LB |

NOTES:

- UNIT MUST HAVE CLEARANCES FOR AIR FLOW 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 AIR FLOW 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.



DATE
11/11/97

SUPERSEDES
03/10/97

30GX151,161,175 AIR COOLED CHILLERS

30GX501583

REV
B

CERTIFIED DIMENSION PRINT

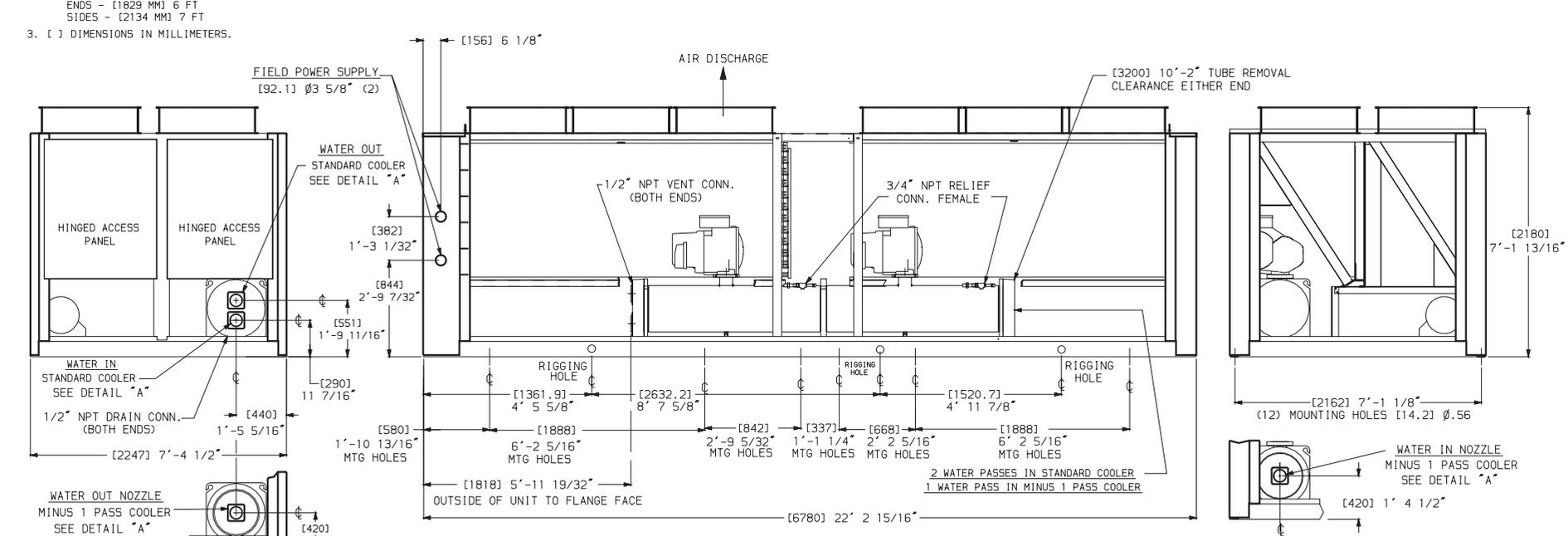
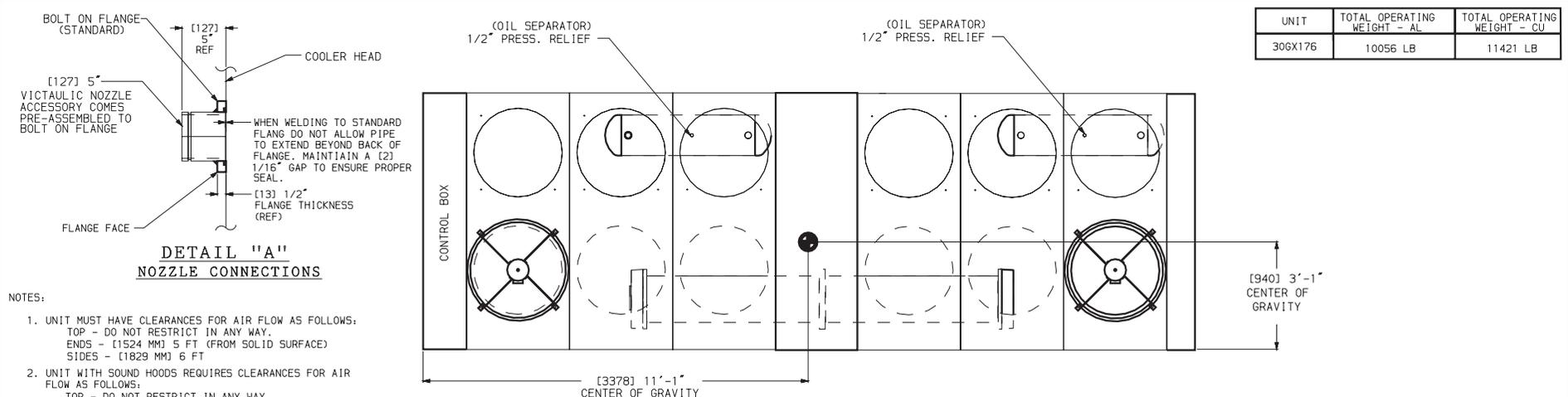


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| UNIT | TOTAL OPERATING WEIGHT - AL | TOTAL OPERATING WEIGHT - CU |
|---------|-----------------------------|-----------------------------|
| 30GX176 | 10056 LB | 11421 LB |



| | | | | |
|------------------|------------------------|----------------------------|------------|----------|
| DATE 11/11/97 | SUPERSEDES 01/10/97 | 30GX176 AIR COOLED CHILLER | 30GX501585 | REV A |
|------------------|------------------------|----------------------------|------------|----------|

CERTIFIED DIMENSION PRINT

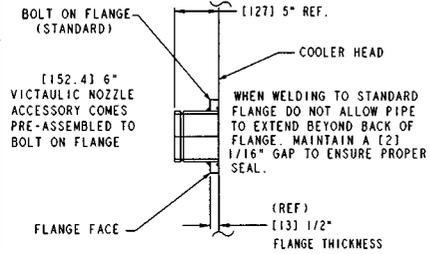


UNITED TECHNOLOGIES SYRACUSE, NY
CARRIER

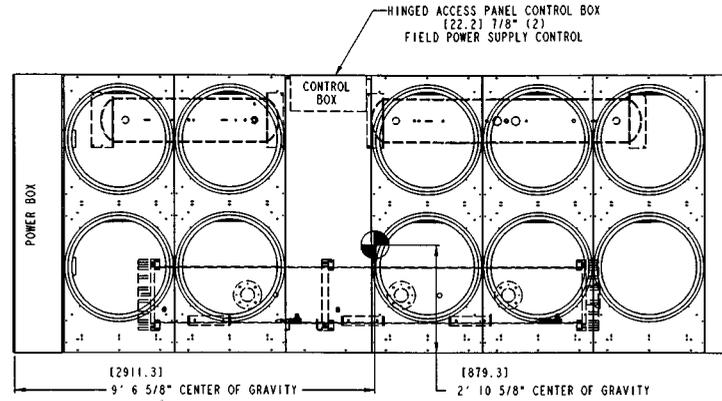
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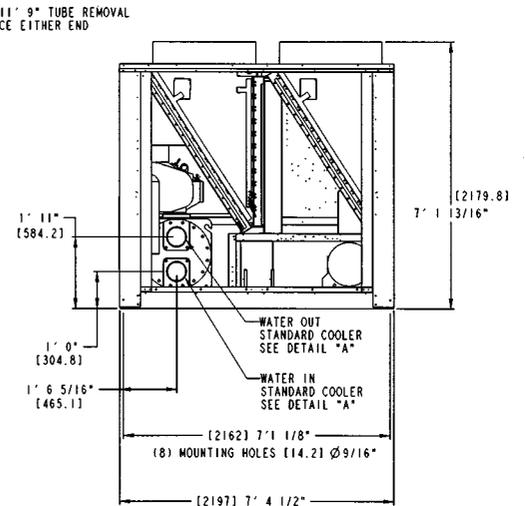
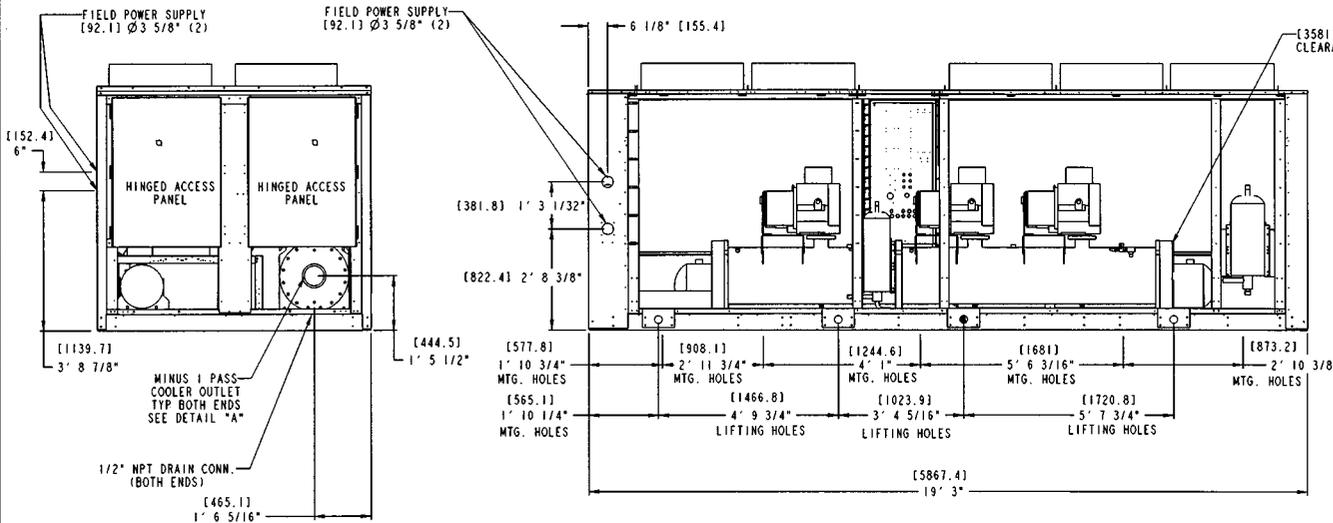
DETAIL "A"
NOZZLE CONNECTIONS



| UNIT 30GX | TOTAL OPERATING WEIGHT | | TOTAL OPERATING WEIGHT | |
|-----------|------------------------|------------|------------------------|------------|
| | Aluminum Fin | Copper Fin | Aluminum Fin | Copper Fin |
| | lb | kg | lb | kg |
| 205 | 12,184 | 5,538 | 13,569 | 6,168 |
| 225 | 12,364 | 5,620 | 13,749 | 6,250 |

NOTES:

- Unit must have clearances for air flow 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 air flow 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.



| DATE | SUPSEDES | DESCRIPTION | REV |
|----------|----------|---------------------------------|-----|
| 10/02/97 | - | 30GX205,225 AIR COOLED CHILLERS | - |

CERTIFIED DIMENSION PRINT

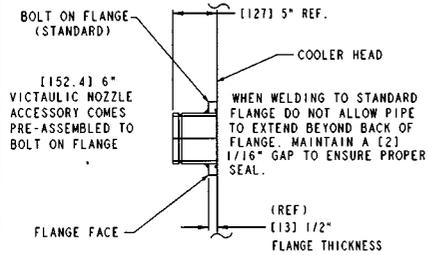


UNITED TECHNOLOGIES SYRACUSE, NY
CARRIER

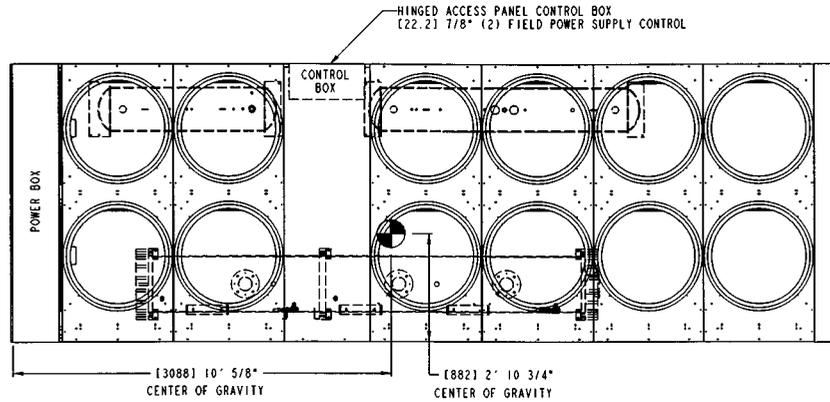
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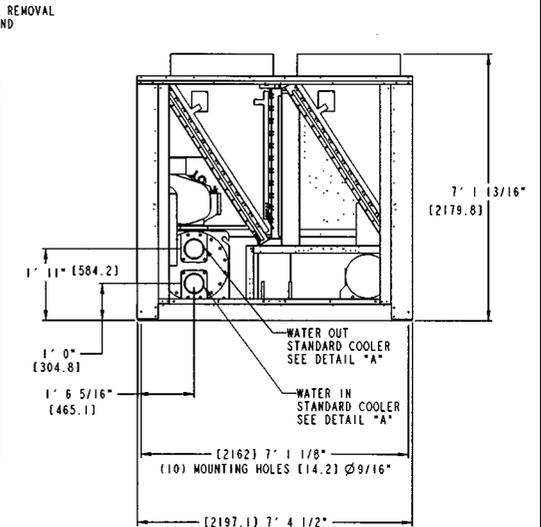
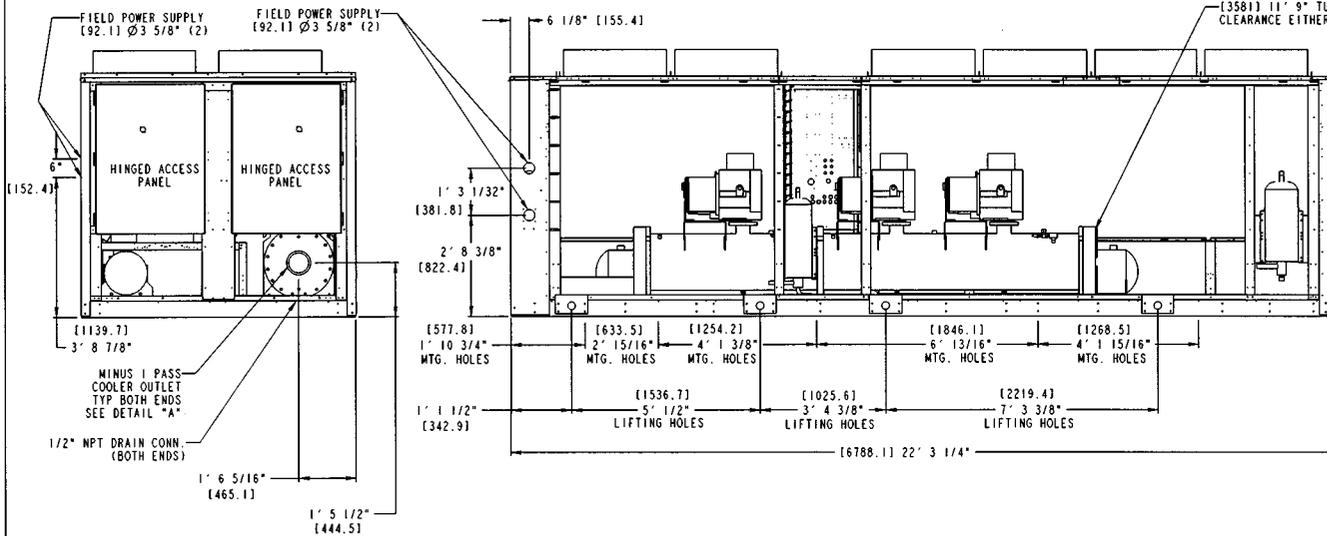
DETAIL "A"
NOZZLE CONNECTIONS



| UNIT 30GX | TOTAL OPERATING WEIGHT | | TOTAL OPERATING WEIGHT | |
|--------------|------------------------|-------|------------------------|-------|
| | Aluminum Fin | | Copper Fin | |
| | lb | kg | lb | kg |
| 206 | 12,794 | 5,815 | 14,462 | 6,574 |
| 226 | 12,974 | 5,897 | 14,642 | 6,655 |
| 250 | 13,194 | 5,997 | 14,862 | 6,755 |

NOTES:

- Unit must have clearances for air flow 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 air flow 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.



| DATE | SUPSEDES | UNIT | REV |
|----------|----------|-------------------------------------|-----|
| 10/02/97 | - | 30GX206,226,250 AIR COOLED CHILLERS | - |

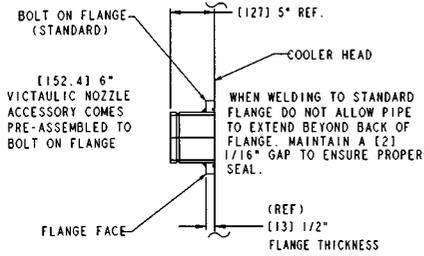
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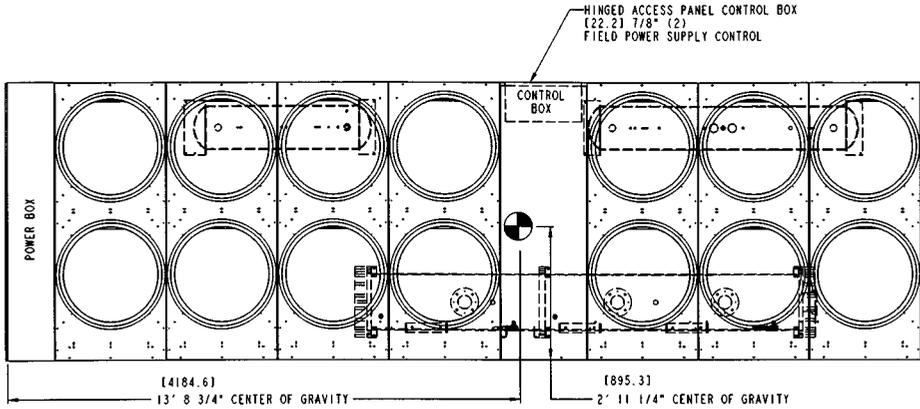
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P.O. BOX 4808

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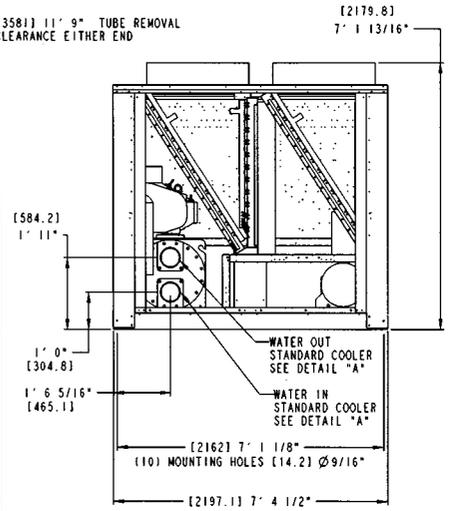
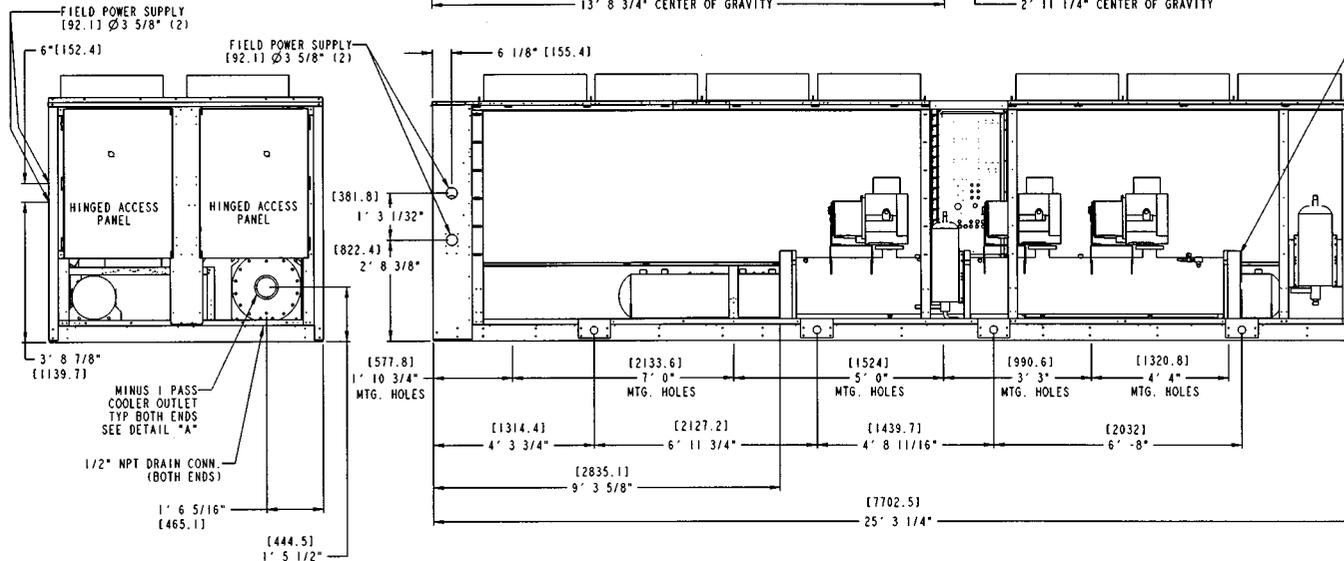
DETAIL "A"
NOZZLE CONNECTIONS



| UNIT 30GX | TOTAL OPERATING WEIGHT | | TOTAL OPERATING WEIGHT | |
|-----------|------------------------|-------|------------------------|-------|
| | Aluminum Fin | | Copper Fin | |
| | lb | kg | lb | kg |
| 251 | 13,774 | 6,621 | 15,549 | 7,068 |
| 265 | 13,829 | 6,286 | 15,604 | 7,093 |

NOTES:

- Unit must have clearances for air flow 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 air flow 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.



| DATE | SUPSEDES | 30GX251,265 AIR COOLED CHILLERS | 30GX502152 | REV |
|----------|----------|---------------------------------|------------|-----|
| 10/02/97 | - | | | - |

FIELD WIRING DIAGRAM

| | | | |
|--|---|---|---|
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|--|---|---|---|

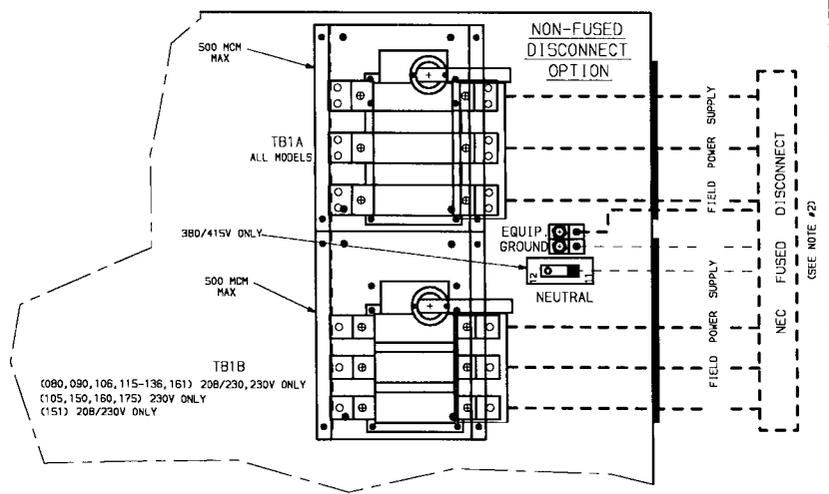
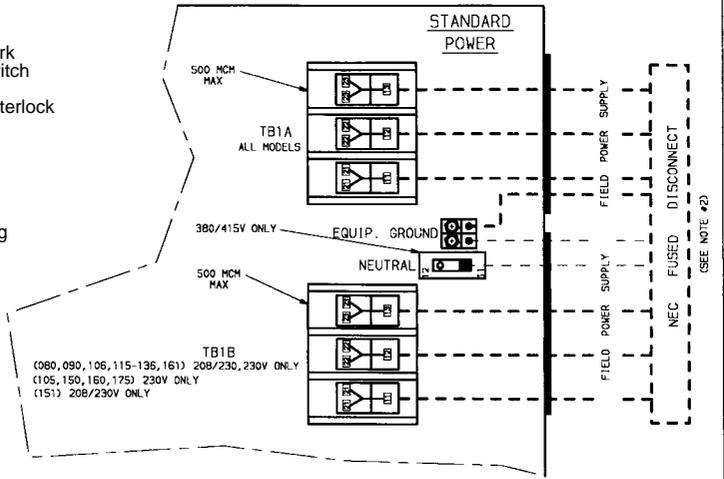
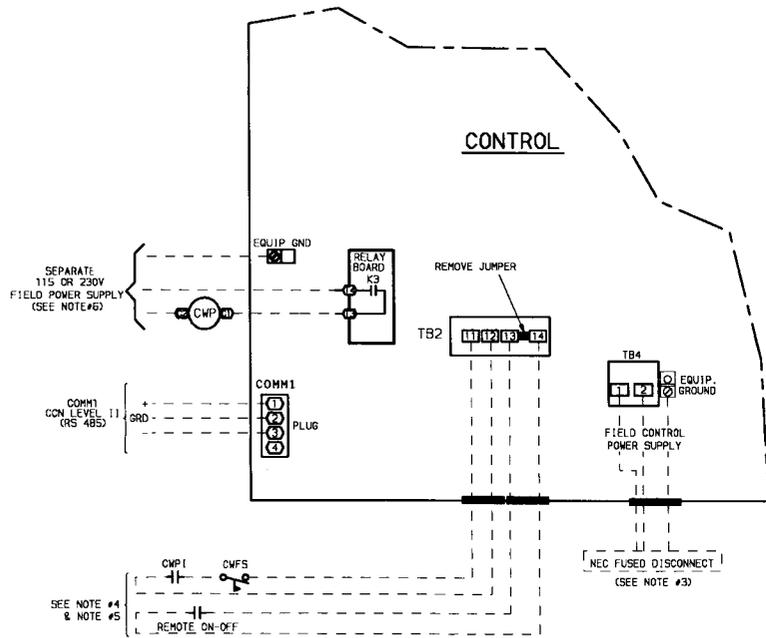
NOTES:

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 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.

CCN
 CWFS
 CWP
 CWPI
 EQUIP
 GND,GRD
 TB

LEGEND

- Carrier Comfort Network
- Chilled Water Flow Switch
- Chilled Water Pump
- Chilled Water Pump Interlock
- Equipment
- Ground
- Terminal Block
- Field Power Wiring
- - - Field Control Wiring
- Factory Installed Wiring



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| DATE 11/04/96 | APPROVED | 30GX080-176 LIQUID CHILLERS FIELD WIRING DIAGRAM | 30GX501584 | REV — |
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FIELD WIRING DIAGRAM



UNITED TECHNOLOGIES SYRACUSE, NY
CARRIER P.O. BOX 4809 13221

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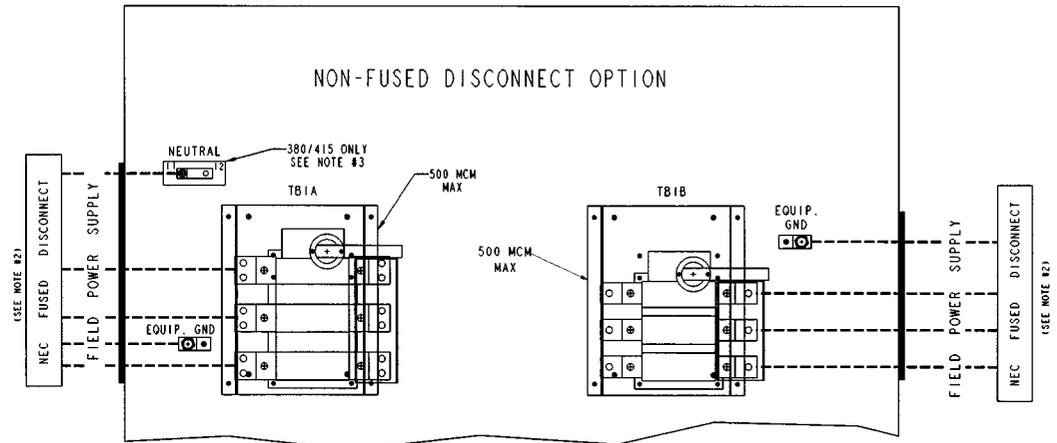
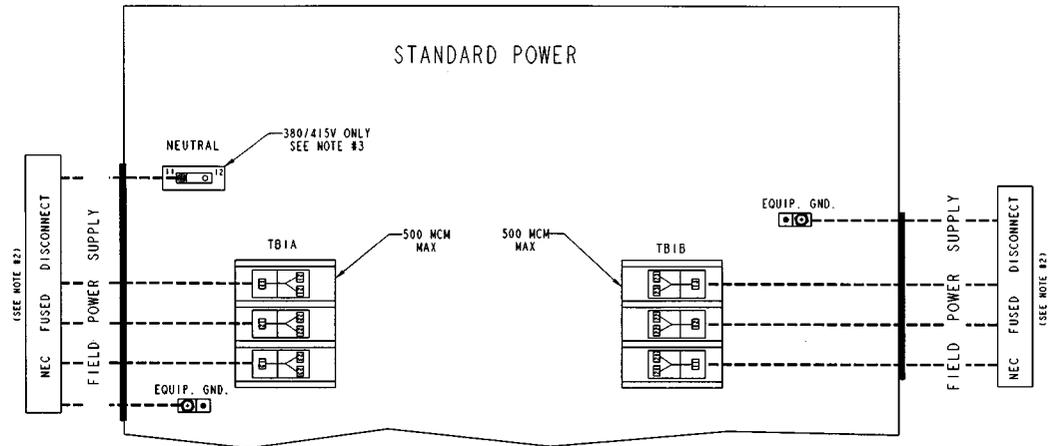
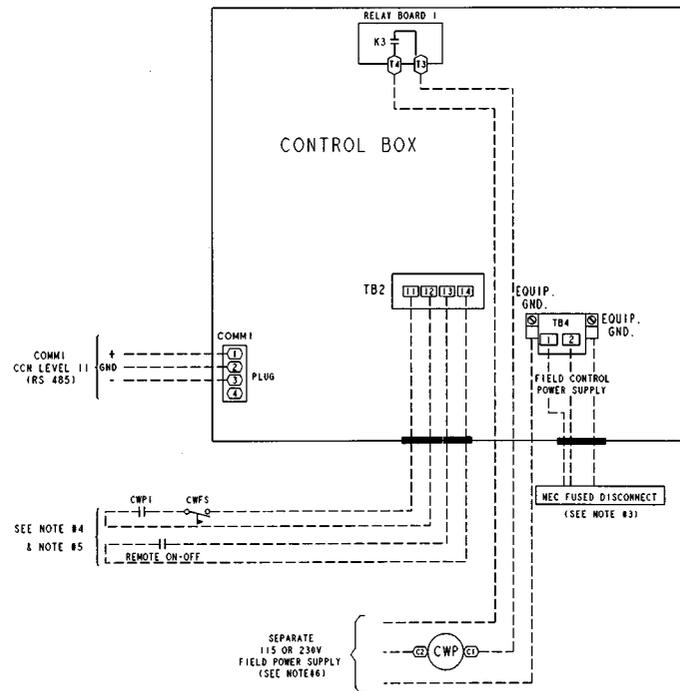
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NOTES:

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 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

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



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| DATE | SUPERSEDES | 30GX205-265 AIR COOLED CHILLER FIELD WIRING DIAGRAM | 30GX502155 | REV |
| 10/02/97 | - | | | - |