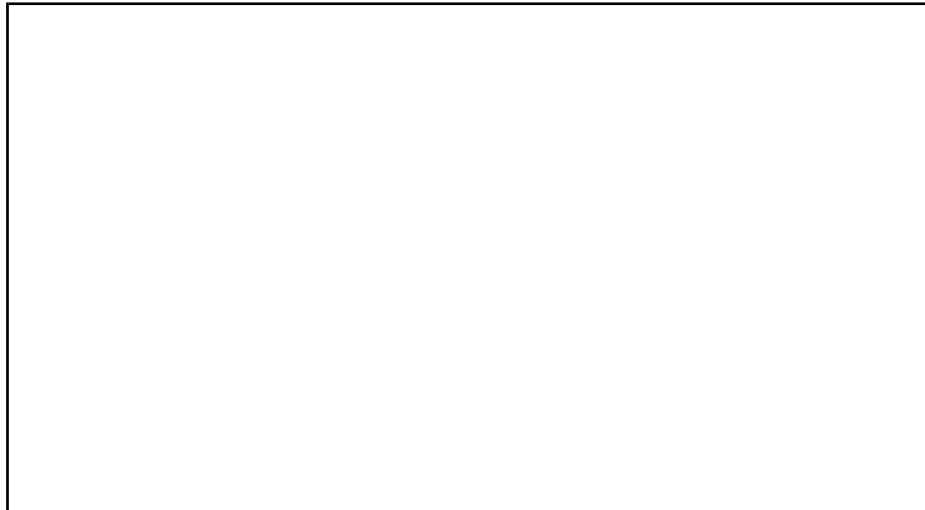




30GTN,GUN-2SB

30GTN,GTR,GUN,GUR130-420 AIR-COOLED CHILLERS WITH COMFORTLINK™ CONTROLS

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



Date:	Supersedes:	30GTN,GUN130-420 COMFORTLINK™ CONTROLS AIR-COOLED CHILLERS		30GTN,GUN	Rev.:
JOB NAME:		LOCATION:			
BUYER:		BUYER P.O. #		CARRIER #	
UNIT NUMBER:		MODEL NUMBER:			
PERFORMANCE DATA CERTIFIED BY:					DATE:

DESCRIPTION

These air-cooled package chillers are factory piped, wired and charged with HCFC-22 (30GUN with HFC-134a). Rugged, weatherproof construction and compact design make them ideal for rooftop or ground level installation. Upward discharge airflow minimizes directional sound and dissipates heat away from surrounding areas.

FEATURES

Standard one-year warranty (U.S.A. and Canada only).

Multiple reciprocating serviceable-hermetic compressors mounted on spring isolated rails. Automatically reversible oil pump, thermal overload protection, liquid and discharge service valves.

Electronic ground current sensing device for each circuit.

Calibrated, ambient compensated magnetic-trip circuit breakers with manual reset provide single-phase and phase-reversal protection.

Insert-type 180-Watt crankcase heaters.

High- and low-pressure safety switches.

Dual refrigerant circuits. Each refrigerant circuit contains: Hot gas muffler for each compressor, excessive pressure relief device, liquid line shut-off valve, replaceable-core filter drier, moisture indicating sight glass, loss of oil pressure protection.

Electronic expansion valve in each refrigeration circuit.

Automatic lead-lag feature automatically alternates the lead circuits to ensure even cycles and run time.

Single point main power connection (130-210).

Compressor timed pumpdown cycle at start-up and stopping of each refrigeration circuit cooling cycle.

Unit capable of starting with up to 95° F (35° C) water entering the cooler, with 115° F (46° C) outdoor air.

Units equipped with electronic expansion valves are capable of starting and operating down to 35° F (1.7° C) outside-air temperatures with wind baffles installed. Below 35° F (1.7° C) outside-air temperature, the unit must be modified for low-ambient operation. Below 32° F (0° C), unit must be equipped with wind baffles.

Low water flow detection provided by internal control devices. Proof of flow switches recommended.

Control capacity based on leaving-water temperature, compensated by return-water temperature.

Cooler flow may be either constant or variable.

Provisions can be made for reset by either outdoor, space, or return-water temperature.

Clear language scrolling marquee alphanumeric diagnostic display and set point panel for set points, service diagnostics and operational quick tests.

Integral shell-and-tube cooler with dual refrigerant circuits, expanded poly-vinyl chloride insulation and electric heater cable for freeze protection.

Non-ferrous condenser coils with mechanically bonded plate fins and integral subcooling circuit.

Direct-drive condenser fans and motors are supported by a formed-wire mount to reduce vibration.

Fan motors are three-phase with permanently lubricated ball bearings and inherently protected.

Multiple fans are used for head pressure control during intermediate season.

Unit can be equipped with an energy management module for load shedding, demand limiting or reset via 4 to 20 mA signal.

The unit cabinet consists of galvanized steel casing, zinc phosphatized, with an electrostatically applied baked enamel finish, capable of withstanding a 500-hour salt spray test.

Hinged control box access panels.

Alarm circuit wiring standard.

PERFORMANCE DATA

UNIT

Capacity (tons) _____

Compressor Power Input _____ kW

Unit Power Input _____ kW

Minimum Outdoor Operating Temperature _____ °F (°C)

Capacity Control Steps _____ Minimum Capacity _____ %

Refrigerant _____

Condenser Entering Air Temperature _____ °F (°C)

Saturated Discharge Temperature _____ °F (°C)

COOLER

Entering Water Temperature _____ °F (°C)

Leaving Water Temperature _____ °F (°C)

Chilled Water Flow _____ Gpm (L/s)

Chilled Water Pressure Drop _____ ft wg (kPa)

Fouling Factor _____

Fluid _____

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Ph _____ Hz

Power Supply to Control Circuit _____ Volts _____ Ph _____ Hz

Maximum Instantaneous Current Flow _____ Amps

Minimum Circuit Amps _____

Maximum Fuse Amps _____

Control Circuit Fuse Amps _____

FACTORY-INSTALLED OPTIONS

☐ Energy Management Module

☐ Motormaster® III Control

☐ Brine — 15° F to 40° F LWT

☐ Cooler Heater

☐ Part Winding Start

☐ High Static Fans

☐ Low Noise Fans

☐ Hot Gas Bypass

☐ Non-Fused Disconnect

☐ Precoated Aluminum Fins

☐ Copper-Copper Condenser Coils

☐ Postcoated Copper Fins

☐ Postcoated Aluminum Fins

ACCESSORIES

☐ _____

☐ _____

☐ _____

☐ _____

☐ _____

☐ _____

CUT ALONG DOTTED LINE

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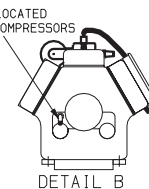
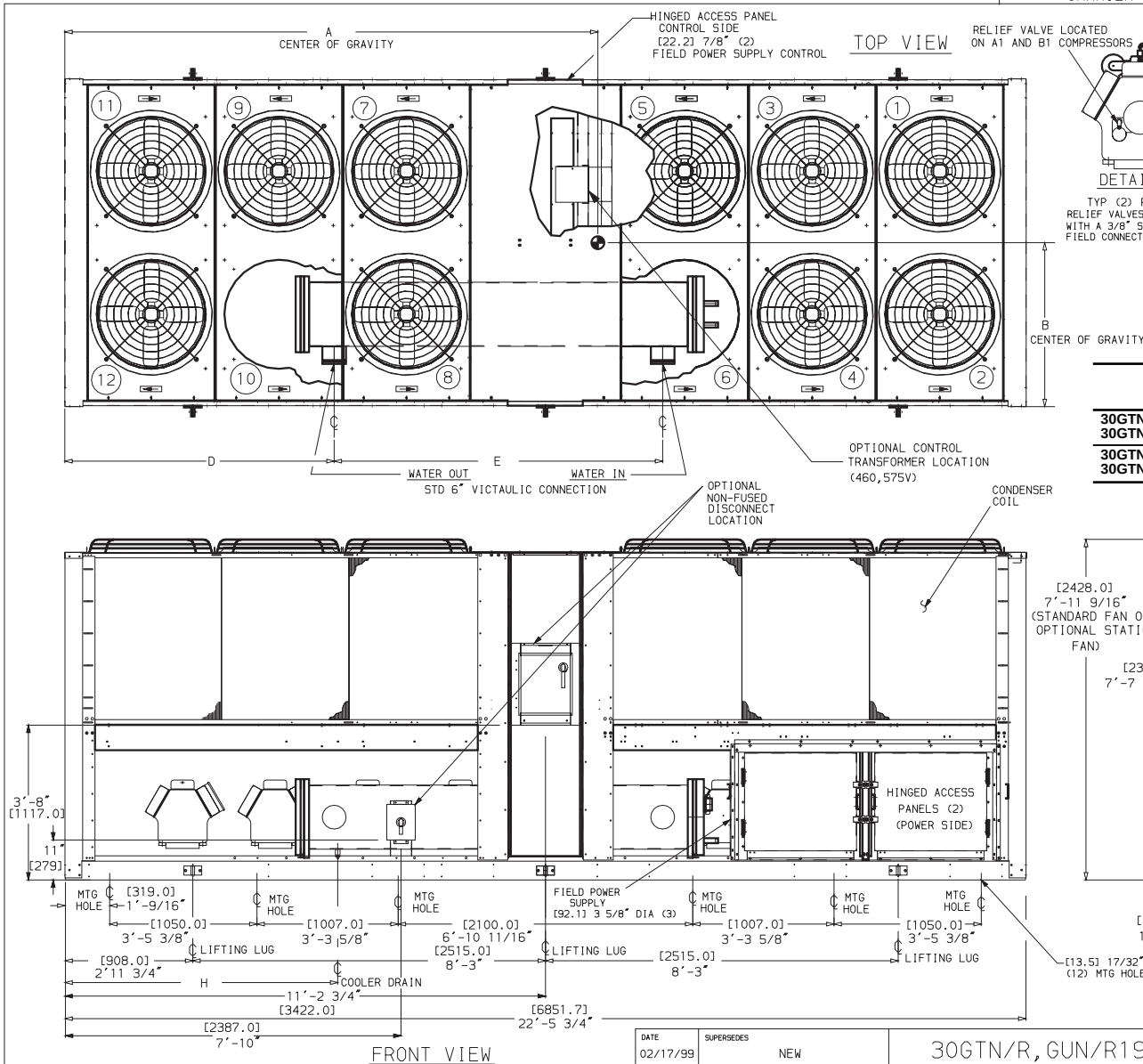
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UNITED
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CARRIER

P O BOX 4808
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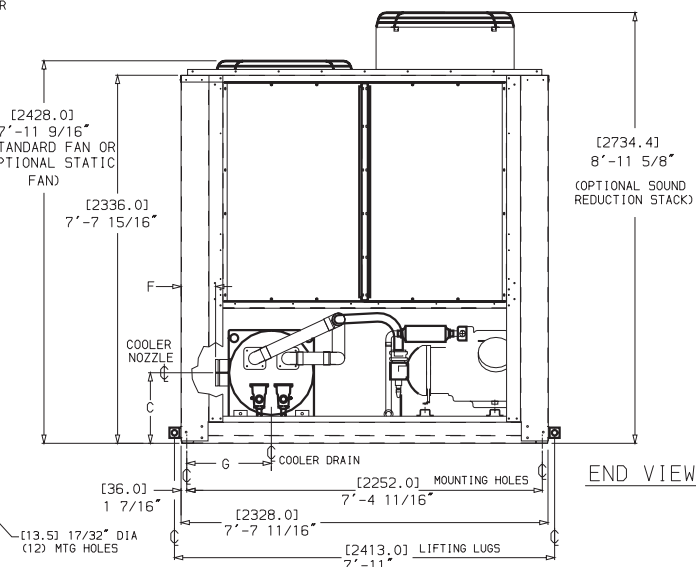
DETAIL B

TYP (2) PLACES
RELIEF VALVES ARE EQUIPPED
WITH A 3/8" SAE FLARE FOR
FIELD CONNECTION

NOTES:

- NOTES:
1. The approximate operating weight of the unit is:
30GTN/R, GUN/R190 — 12,906 lb (5855 kg)
30GTN/R, GUN/R190C — 14,425 lb (6544 kg)
30GTN/R, GUN/R210 — 13,545 lb (6144 kg)
30GTN/R, GUN/R210C — 15,064 lb (6834 kg)
 2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
 3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
 4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
 5. 30GTN/R, GUN/R190 also Module A for 30GTN/R, GUN/R290, 360.
30GTN/R, GUN/R190 also Module B for 30GTN/R, GUN/R360 (60 Hz), 390.
30GTN/R, GUN/R210 also Module A for 30GTN/R, GUN/R315, 390, 420.
30GTN/R, GUN/R210 also Module B for 30GTN/R, GUN/R420.
 6. Dimensions in [] are in millimeters.

UNIT	DIMENSIONS — ft.-in. [mm]							
	A	B	C	D	E	F	G	H
30GTN/R, GUN/R190	11-4	4-2½	1-5⅝	6-3⅜	7-8¼	8⅞	1-9	6-4⅞
30GTN/R, GUN/R190C	[345.4]	[1283]	[448]	[191.6]	[234.3]	[219]	[533.4]	[1941.3]
30GTN/R, GUN/R210	11-3	4-2	1-6⅞	5-11½	8-2⅞	9½	1-11	5-11½
30GTN/R, GUN/R210C	[344.4]	[1270]	[468]	[181.6]	[250.4]	[242]	[584]	[1816.2]



END VIEW

DATE
02/17/99

SUPERSEDES	NEW
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30GTN/R, GUN/R190-210 AIR COOLED CHILLER

30GT515303

REV	
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CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT



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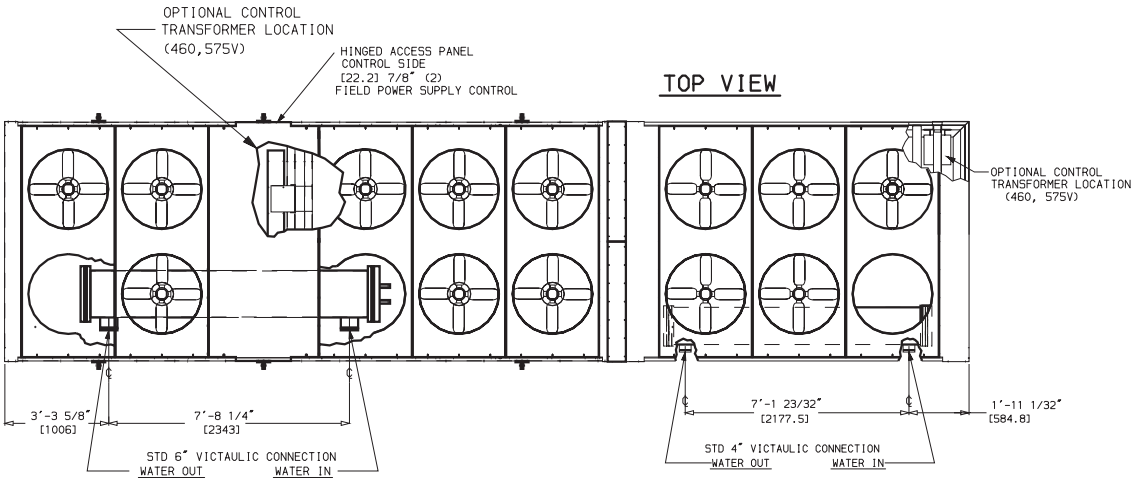
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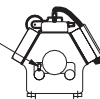
NOTES:

1. The approximate operating weight of the unit is:
30GTN/R, GUN/R230 — 17,396 lb [7891 kg]
30GTN/R, GUN/R230C — 19,393 lb [8797 kg]
30GTN/R, GUN/R245 — 17,811 lb [8080 kg]
30GTN/R, GUN/R245C — 19,808 lb [8985 kg]
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete
pad. They are not recommended for spring isolator
location.
4. If spring isolators are used, a perimeter support channel
between the unit and the isolators is recommended.
5. Unit shipped in 2 pieces.
6. When units have non-fused disconnect option, power side
door opens in opposite direction. Non-fused disconnect
option mounted in control box on 380, 460, 575 v
(60 Hz) and 400 v (50 Hz). For 208/230 v (60 Hz), non-
fused disconnect mounted underneath control box.
6. Dimensions in [] are in millimeters.

TOP VIEW



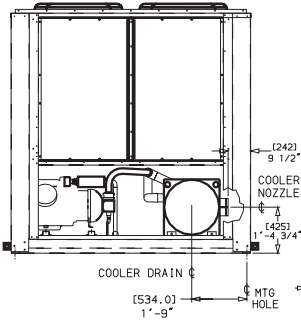
RELIEF VALVE LOCATED
ON A1 AND B1 COMPRESSORS



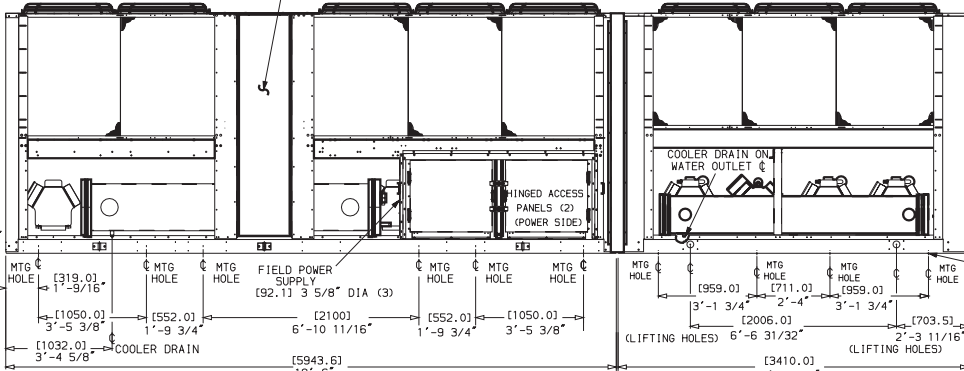
DETAIL B

TYP (2) PLACES
RELIEF VALVES ARE EQUIPPED
WITH A 3/8" SAE FLARE FOR
FIELD CONNECTION

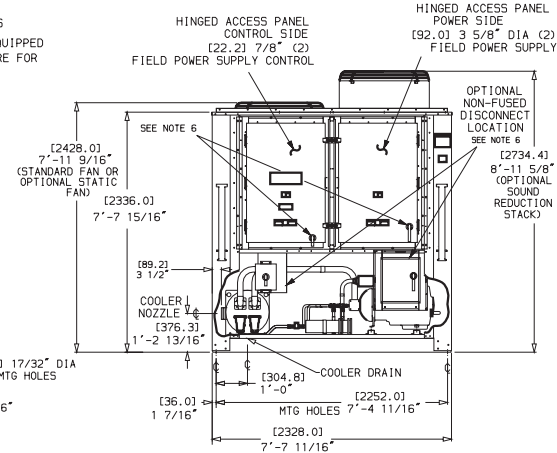
OPTIONAL
NON-FUSED
DISCONNECT
LOCATION



END VIEW



FRONT VIEW



END VIEW

DATE
02/17/99

SUPERSEDES
NEW

30GTN/R, GUN/R230, 245 AIR COOLED CHILLER

30GT515309

REV
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CERTIFIED DIMENSION PRINT

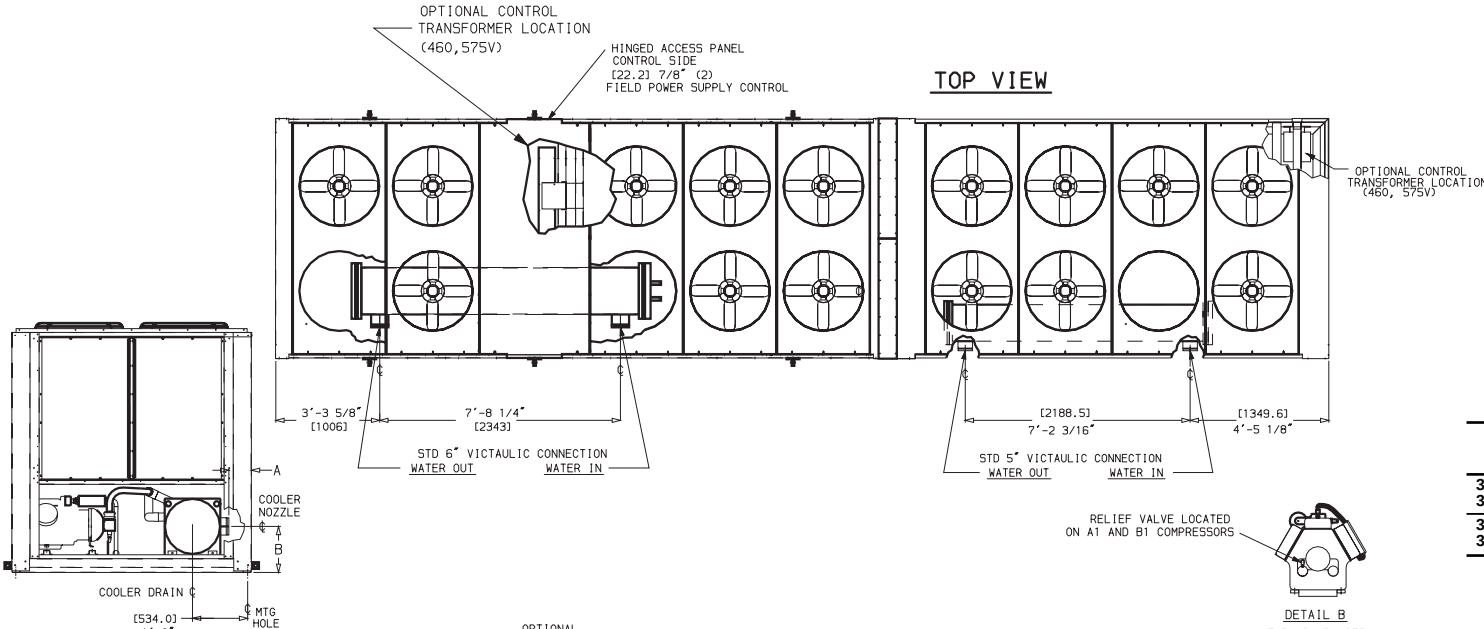


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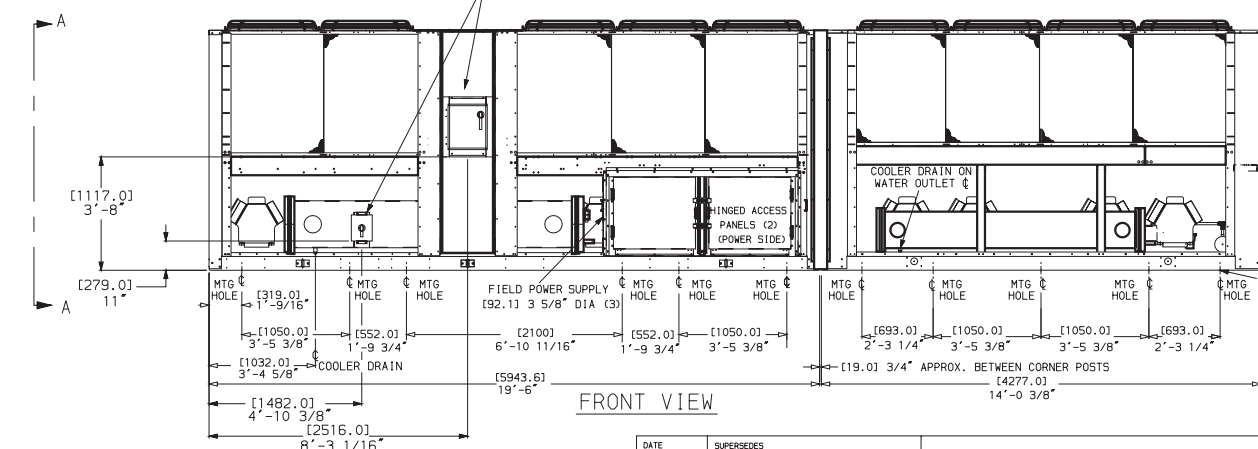
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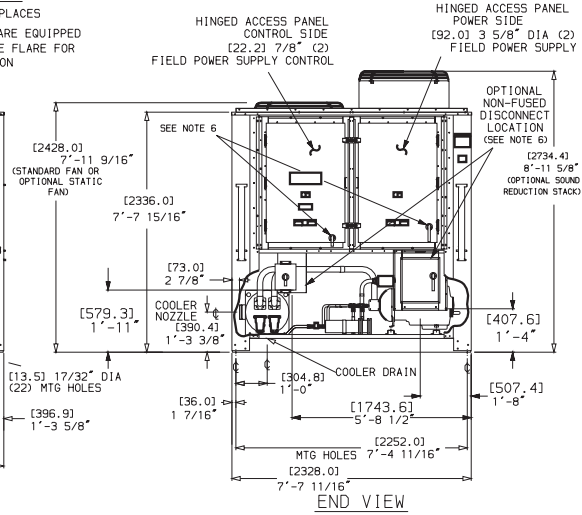
- NOTES:
1. The approximate operating weight of the unit is:
30GTN/R, GUN/R255 — 19,386 lb [8794 kg]
30GTN/R, GUN/R255C — 21,608 lb [9802 kg]
30GTN/R, GUN/R270 — 20,153 lb [9142 kg]
30GTN/R, GUN/R270C — 22,375 lb [10 150 kg]
 2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
 3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
 4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
 5. Unit shipped in 2 pieces.
 6. When unit has non-fused disconnect option, power side door opens in opposite direction. Non-fused disconnect option mounted in control box on 380, 460, 575 v (60 hz) and 400 v (50 Hz). For 208/230 v (60 Hz), non-fused disconnect mounted underneath control box.
 6. Dimensions in [] are in millimeters.

UNIT	DIMENSIONS — ft.-in. [mm]	
	A	B
30GTN/R, GUN/R255	9½	1-4¾
30GTN/R, GUN/R255C	[241]	[425]
30GTN/R, GUN/R270	8½	1-5½
30GTN/R, GUN/R270C	[216]	[448]

VIEW A-A
END VIEW



DETAIL B
TYP (2) PLACES
RELIEF VALVES ARE EQUIPPED
WITH A 3/8\"/>



DATE 02/17/99	SUPersedes NEW	30GTN/R, GUN/R255, 270 AIR COOLED CHILLER	30GT515305	REV —
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CUT ALONG DOTTED LINE

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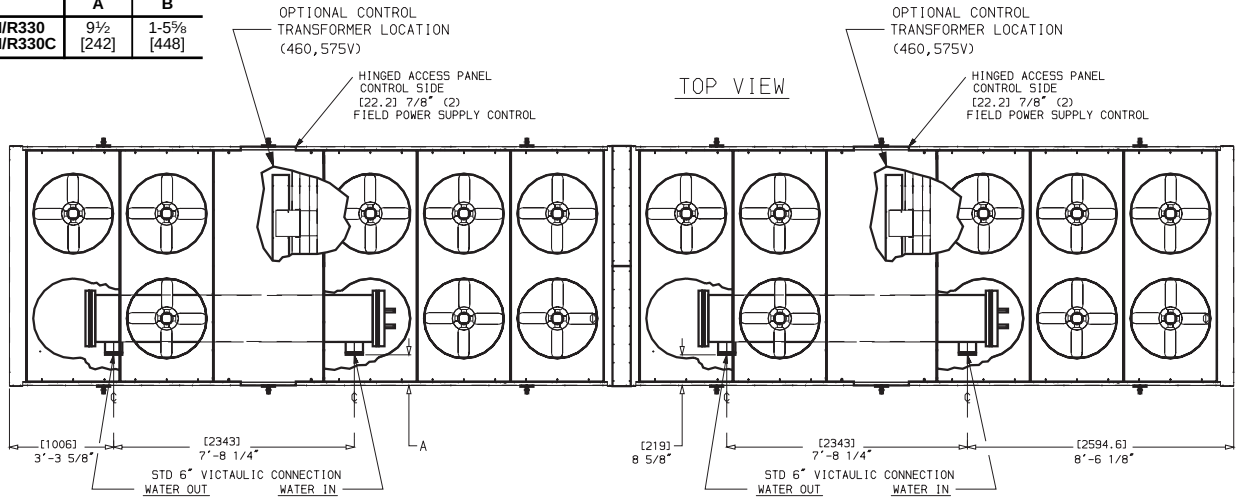
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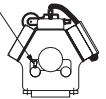
UNIT	DIMENSIONS — ft-in. [mm]	
	A	B
30GTN/R, GUN/R330 30GTN/R, GUN/R330C	9½ [242]	1-5¾ [448]



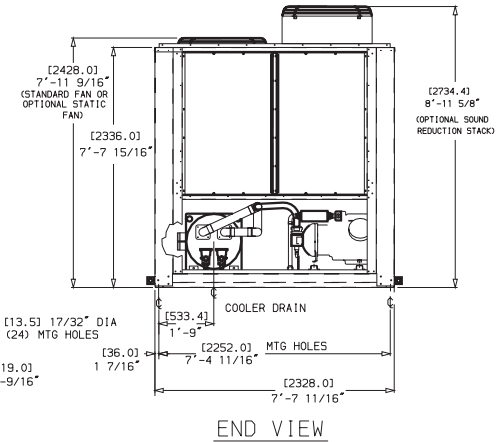
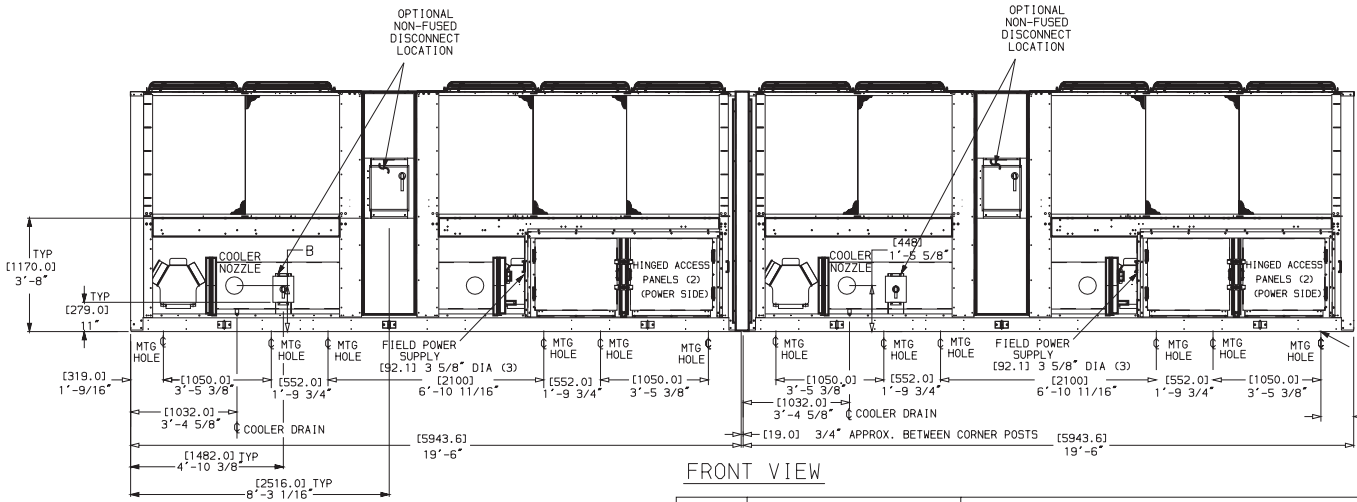
NOTES:

1. The approximate operating weight of the unit is:
30GTN/R, GUN/R330 — 22,886 lb [10 383 kg]
30GTN/R, GUN/R330C — 25,430 lb [11 536 kg]
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
4. If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
5. Unit shipped in 2 pieces.
6. Dimensions in [] are in millimeters.

RELIEF VALVE LOCATED
ON A1 AND B1 COMPRESSORS



RELIEF VALVES ARE EQUIPPED
WITH A 3/8\"/>



FRONT VIEW

END VIEW

DATE
02/17/99

SUPersedes

NEW

30GTN/R, GUN/R330 AIR COOLED CHILLER

30GT515306

REV

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CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT



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CARRIER

P O BOX 4808
SYRACUSE N. Y.
13221

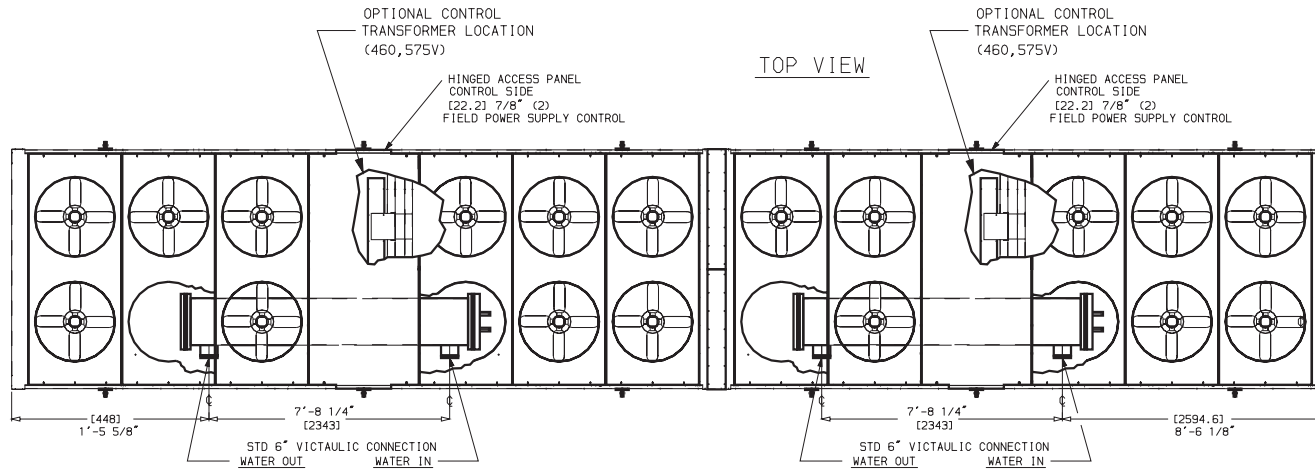
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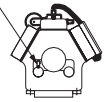
NOTES:

- The approximate operating weight of the unit is:
30GTN/R, GUN/R360 — 24,349 lb [11 045 kg]
30GTN/R, GUN/R360C — 27,140 lb [11 311 kg]
- Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
- Unit shipped in 2 pieces.
- Dimensions in [] are in millimeters.

TOP VIEW

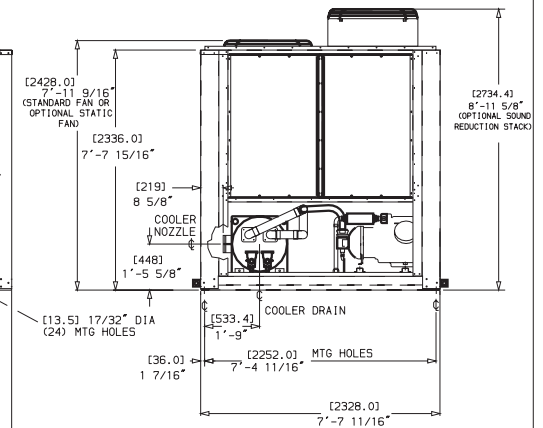
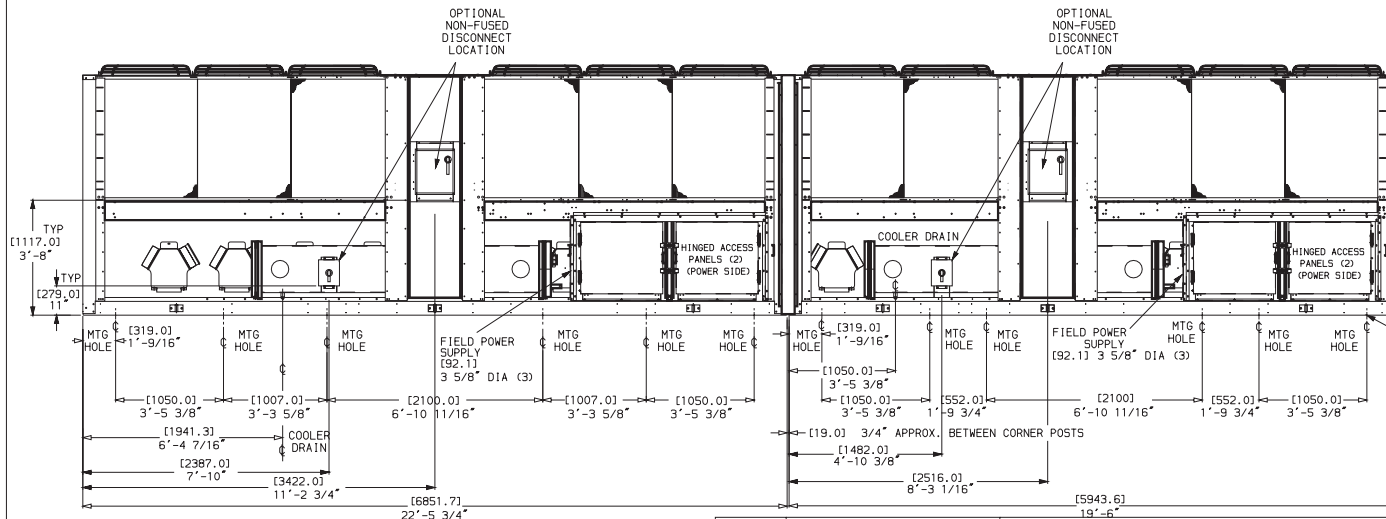


RELIEF VALVE LOCATED
ON A1 AND B1 COMPRESSORS



DETAIL B
TYP (2) PLACES

RELIEF VALVES ARE EQUIPPED
WITH A 3/8\" SAE FLARE FOR
FIELD CONNECTION



END VIEW

FRONT VIEW

DATE
02/17/99

SUPERSIDES
NEW

30GTN/R, GUN/R360 50HZ AIR COOLED CHILLER

30GT515307

REV
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CERTIFIED DIMENSION PRINT



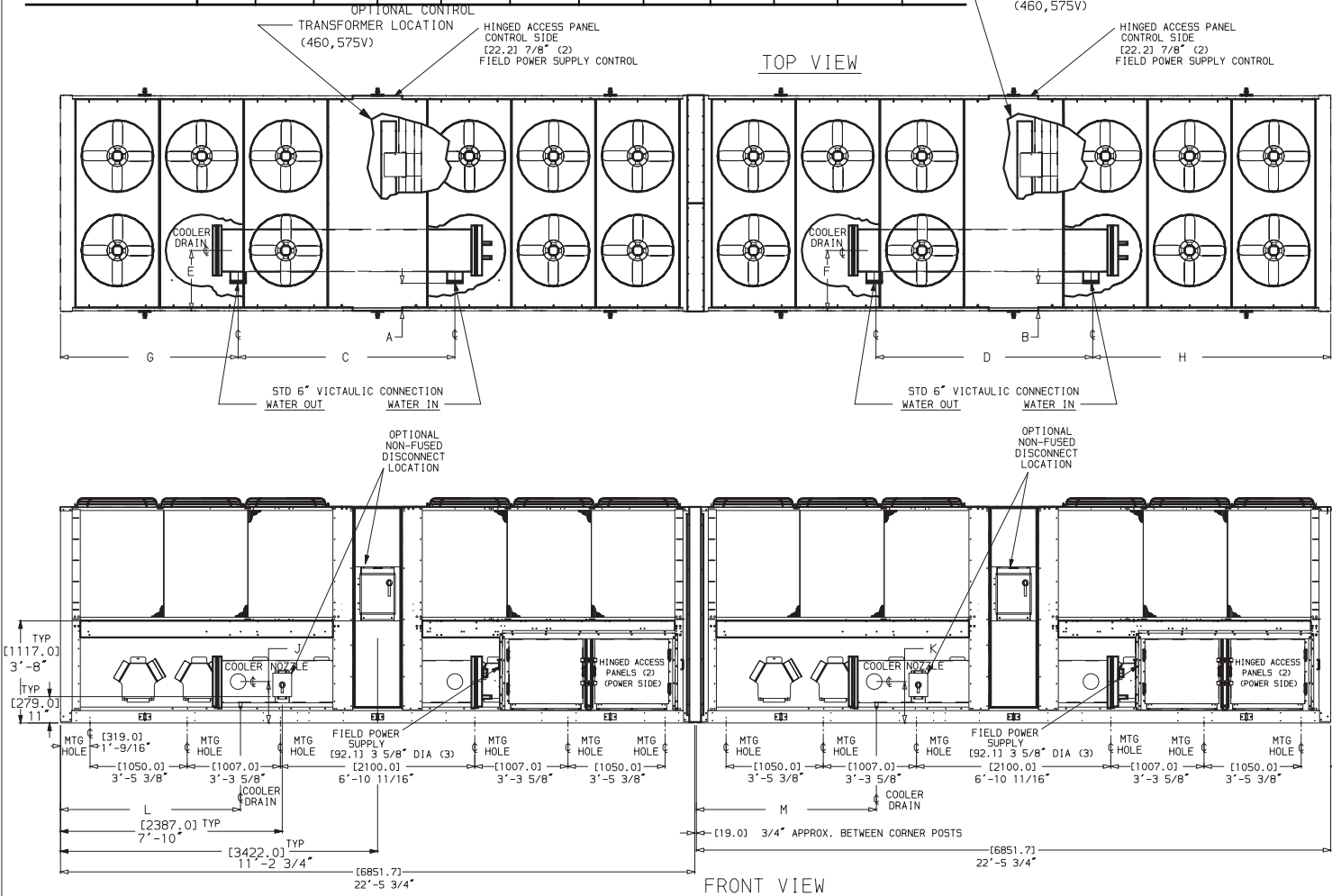
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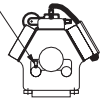
UNIT	DIMENSIONS — ft.-in. [mm]											
	A	B	C	D	E	F	G	H	J	K	L	M
30GTN/R, GUN/R360 30GTN/R, GUN/R360C (60 Hz)	8 9/16 [219]	8 9/16 [219]	7-8 1/4 [2343]	7-8 1/4 [2343]	1-10 1/16 [570]	1-10 1/16 [570]	6-3 7/8 [1916]	8-6 1/4 [2471]	1-5 1/8 [447]	1-5 1/8 [446]	6-4 1/2 [1945]	5-11 1/2 [1816]
30GTN/R, GUN/R390 30GTN/R, GUN/R390C	9 1/8 [242]	8 9/16 [219]	8-2 9/16 [2504]	7-8 1/4 [2343]	2-2 1/8 [620]	1-10 1/16 [570]	5-11 1/8 [1816]	8-6 1/4 [2593]	1-6 1/8 [468]	1-5 1/8 [448]	5-11 1/2 [1816]	6-4 1/2 [1942]
30GTN/R, GUN/R420 30GTN/R, GUN/R420C	9 1/8 [242]	9 1/8 [242]	8-2 9/16 [2504]	8-2 9/16 [2504]	2-2 1/8 [620]	2-2 1/8 [620]	5-11 1/8 [1816]	8-3 1/4 [2532]	1-6 1/8 [468]	1-6 1/8 [468]	5-11 1/2 [1816]	6-4 1/2 [1942]



NOTES:

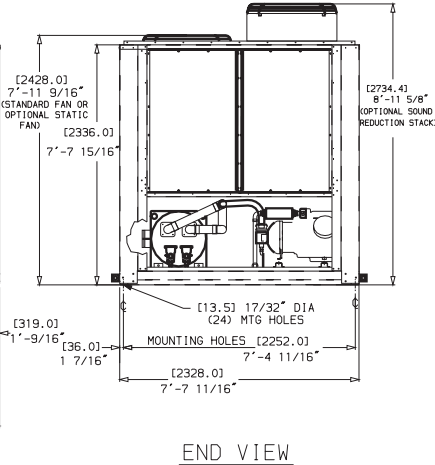
- The approximate operating weight of the unit is:
30GTN/R, GUN/R360 — 25,352 lb [11 500 kg]
30GTN/R, GUN/R360C — 28,390 lb [12 878 kg]
30GTN/R, GUN/R390 — 26,451 lb [11 999 kg]
30GTN/R, GUN/R390C — 29,489 lb [13 377 kg]
30GTN/R, GUN/R420 — 27,090 lb [12 289 kg]
30GTN/R, GUN/R420C — 30,128 lb [13 667 kg]
- Unit must have clearances for airflow as follows:
Top — Do not restrict in any way
Ends — [1524 mm] 5 ft
Sides — [1829 mm] 6 ft
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for spring isolator location.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.
- Unit shipped in 2 pieces.
- Dimensions in [] are in millimeters.

RELIEF VALVE LOCATED
ON A1 AND B1 COMPRESSORS



DETAIL B
TYP (2) PLACES

RELIEF VALVES ARE EQUIPPED
WITH A 3/8\"/>



DATE
02/17/99

SUPSEDES
NEW

30GTN/R, GUN/R360, 390, 420 AIR COOLED CHILLER

30GT515304

REV
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CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

FIELD WIRING DIAGRAM



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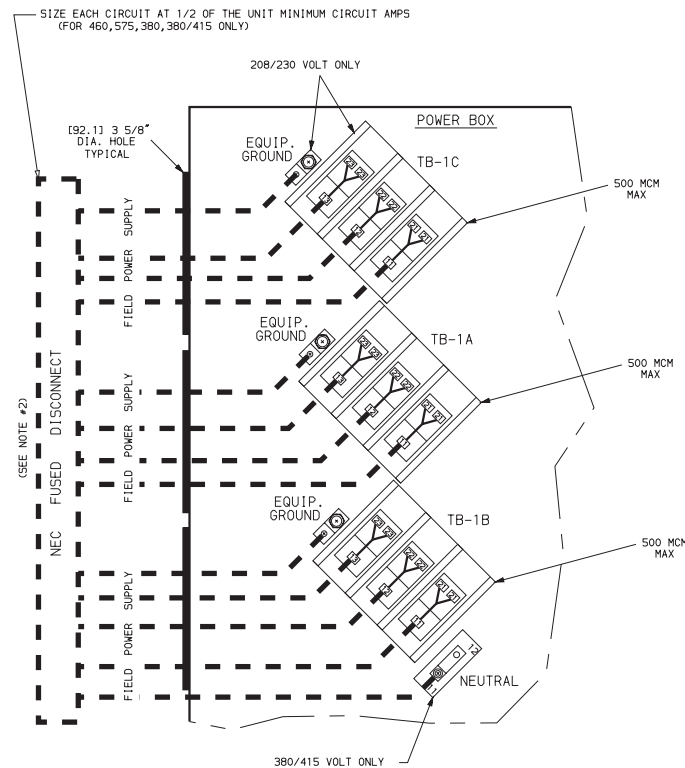
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NOTES:

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, copper clad aluminum, or aluminum conductors for all units except use copper conductors only for 30GTN/R210 208/230 volt unit (XL and PW).
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.
4. Terminals 13 and 14 of TB5 are for field connection for remote on-off control. The contacts must be rated for dry circuit application capable of reliably switching a 5 VDC, .5 mA load.
5. The maximum load allowed for the remote alarm and cooler pump relay circuit is 75 va sealed, 360 va inrush at 115 or 230 volt, depending on model.

LEGEND

- A** — Alarm
CWFS — Chilled Water Flow Switch
CWP — Cooler Pump Relay
CWPI — Chilled Water Pump Interlock
PW — Part Wind Start
TB — Terminal Block
XL — Across-the-Line
--- Field Power Wiring
- - - Field Control Wiring
— Factory-Installed Wiring



DATE
01/21/99

SUPERSEDES
NEW

30GTN/R, 30GUN/R130, 150, 170, 190, 210 AIR COOLED LIQUID CHILLER
FIELD WIRING DIAGRAM (208/230, 460, 575, 380, 380/415V)

30GT515316

REV
—

FIELD WIRING DIAGRAM



UNITED
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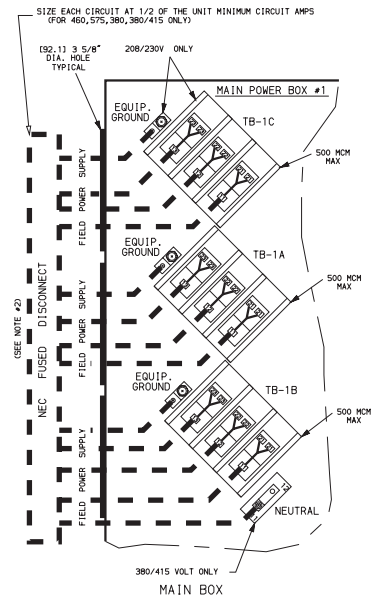
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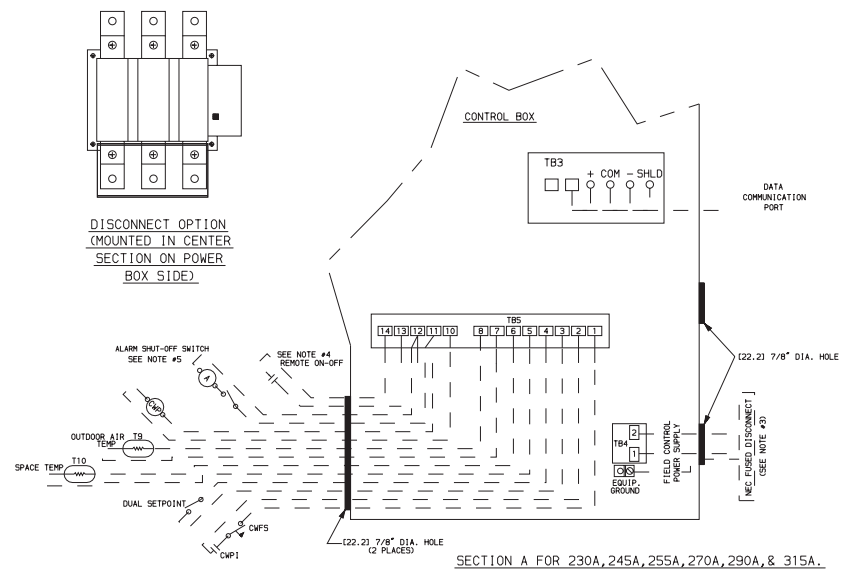
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- NOTES:
1. Factory wiring is in accordance with National Electrical Code (NEC). Field modifications or additions must be in compliance with all applicable codes.
 2. Wiring for main field power supply must be rated 75° C minimum. Use copper, copper clad aluminum, or aluminum conductors for all units.
 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.
 4. Terminals 13 and 14 of TB5 are for field connection for remote on-off control. The contacts must be rated for dry circuit application capable of reliably switching a 5 VDC, .5 mA load.
 5. The maximum load allowed for the remote alarm and cooler pump relay circuit is 75 va sealed, 360 va inrush at 115 or 230 volt, depending on model.

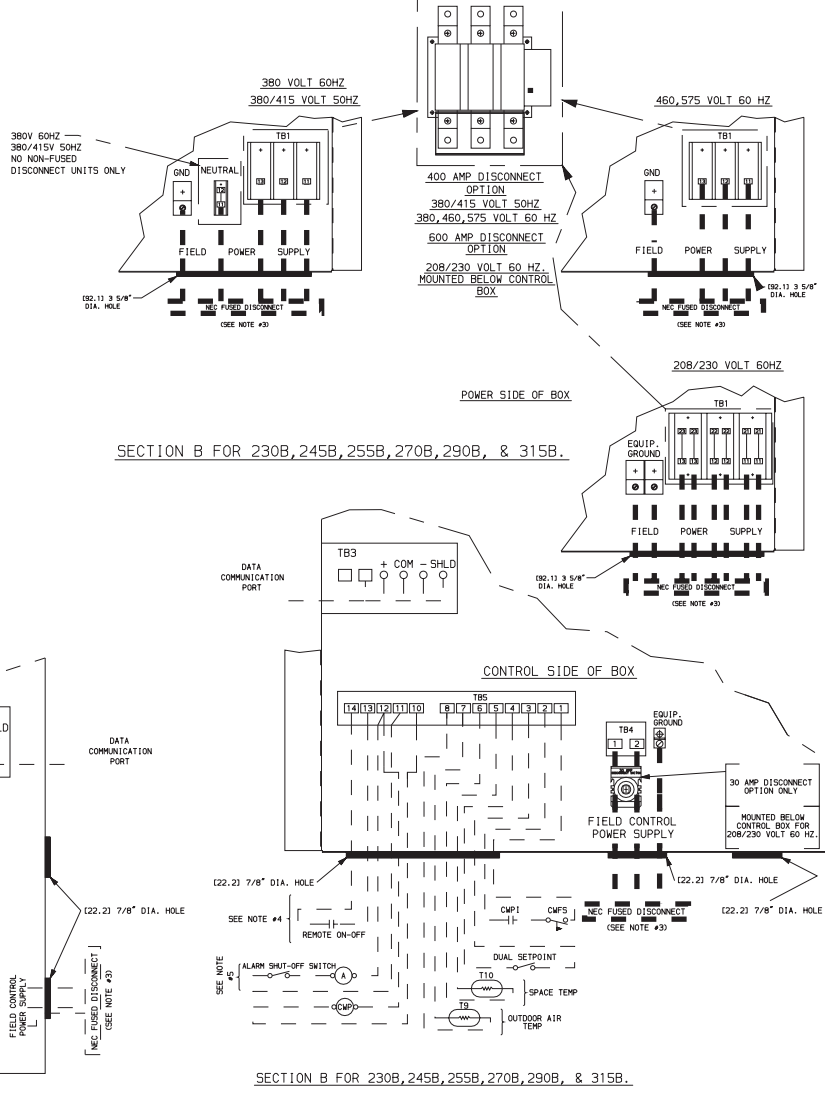
- LEGEND
- A — Alarm
 - CWFS — Chilled Water Flow Switch
 - CWP — Cooler Pump Relay
 - CWPI — Chilled Water Pump Interlock
 - TB — Terminal Block
 - — — — — Field Power Wiring
 - - - - - Field Control Wiring
 - — — — — Factory-Installed Wiring



SECTION A FOR 230A, 245A, 255A, 270A, 290A, & 315A.



SECTION A FOR 230A, 245A, 255A, 270A, 290A, & 315A.



SECTION B FOR 230B, 245B, 255B, 270B, 290B, & 315B.

SECTION B FOR 230B, 245B, 255B, 270B, 290B, & 315B.

DATE 01/21/99	SUPersedes NEW	30GTN/R, 30GUN/R230, 245, 255, 270, 290, 315 AIR COOLED LIQUID CHILLER FIELD WIRING DIAGRAM (208/230, 460, 575, 380, 380/415V)	30GT515318	REV —
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CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

FIELD WIRING DIAGRAM



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TECHNOLOGIES
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ACCEPTANCE OF CONTRACT

- 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, copper clad aluminum, or aluminum conductors for all units except use copper conductors only for the 30GTN/R390A, 420A and 420B 208/230 volt units (XL and PW).
 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.
 4. Terminals 13 and 14 of TB5 are for field connection for remote on-off control. The contacts must be rated for dry circuit application capable of reliably switching a 5 VDC, .5 mA load.
 5. The maximum load allowed for the remote alarm and cooler pump relay circuit is 75 va sealed, 360 va inrush at 115 or 230 volt, depending on model.

LEGEND

A — Alarm

CWFS — Chilled Water Flow Switch

CWP — Cooler Pump Relay

CWPI — Chilled Water Pump Interlock

PW — Part Wind Start

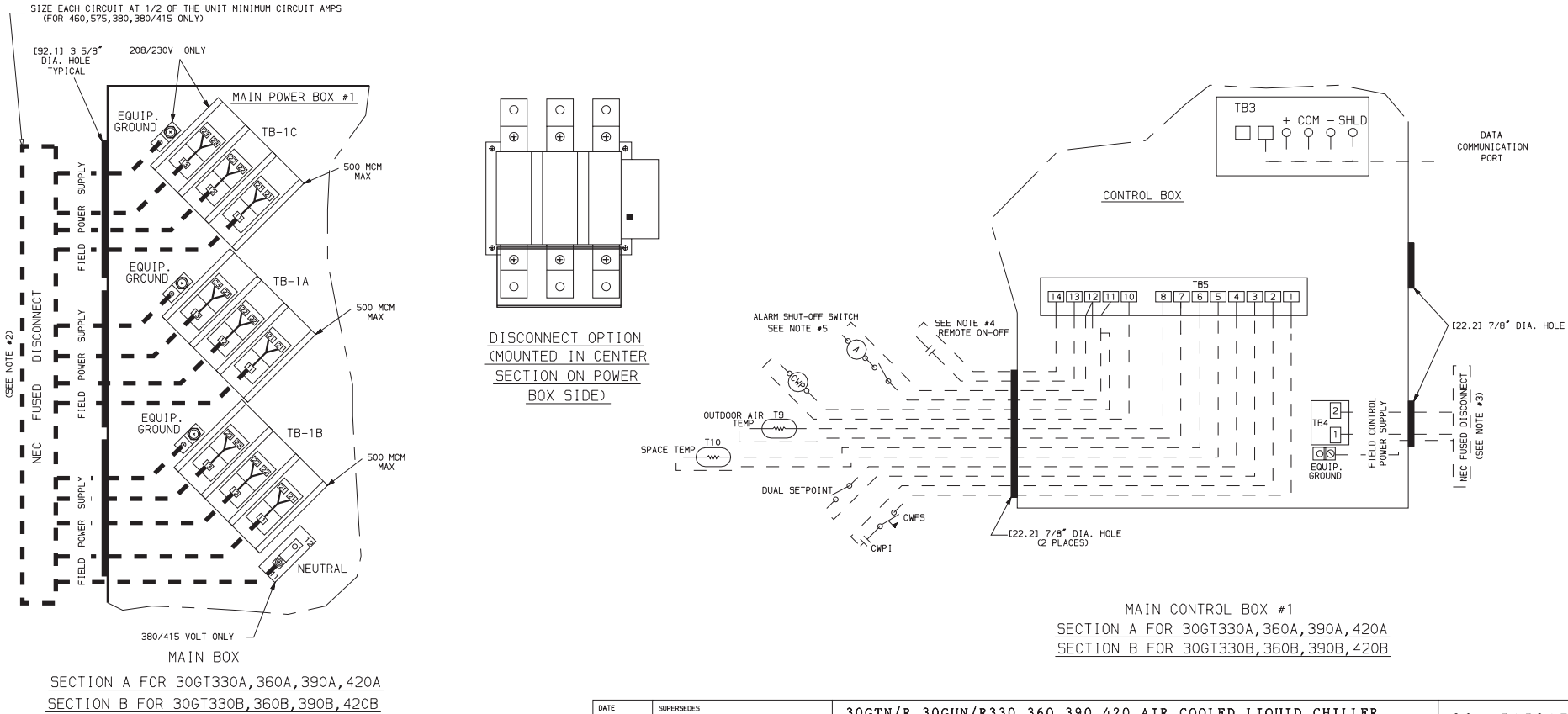
TB — Terminal Block

XL — Across-the-Line

Field Power Wiring

Field Control Wiring

Factory-Installed Wiring



DATE 01/21/99	SUPERSEDES NEW	30GTN/R, 30GUN/R330, 360, 390, 420 AIR COOLED LIQUID CHILLER FIELD WIRING DIAGRAM (208/230, 460, 575, 380, 380/415V)	30GT515317	REV —
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