

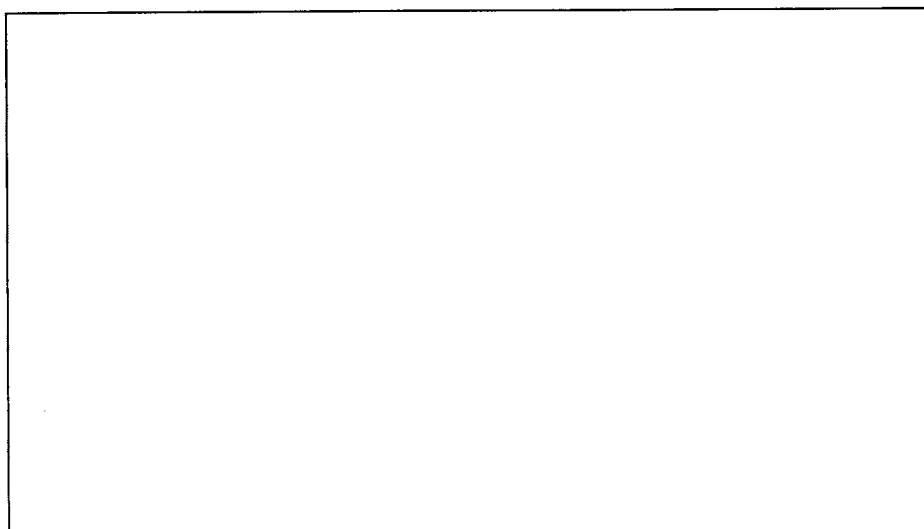


30GT-C1SB

30GT360 (50 Hz)

**FLOTRONIC™
AIR-COOLED CHILLERS**

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



Date:	Supersedes:	30GT360 (50 Hz) FLOTRONIC™ AIR-COOLED CHILLERS	30GT	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 Refrigerant 22. 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

Multiple reciprocating serviceable-hermetic compressors mounted on springs. Reversible oil pump, thermal overload protection, suction and discharge service valves.

Electronic ground current sensing device for each compressor.

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

Insert-type 180-watt crankcase heaters.

High- and low-pressure safety switches.

Four 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.

Electronic expansion valve in each refrigeration circuit.

Automatic lead-lag feature automatically alternates the lead circuits to ensure even compressor wear.

Dual point main power connection.

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

Unit capable of starting with up to 95°F water entering the cooler, with 115°F outdoor air.

Low water flow detection provided by internal control devices, eliminating need for flow switches.

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

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

Flow to coolers may be either constant or variable.

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

Diagnostic display and set point boards for service diagnostics and operational quick tests.

Two-integral shell-and-tube cooler with four refrigerant circuits, expanded polyvinyl chloride insulation and electric heater cables 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 a two-point demand limit control (each 0-50% & 50-100%) activated remotely by an electric signal.

Weather Armor™ cabinet 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, field-supplied bell required.

PERFORMANCE DATA

UNIT

Capacity (tons)/(kW) _____

Compressor Power Input _____ kW

Unit Power Input _____ kW

Minimum Outdoor Operating Temp _____ °F/(°C)

Capacity Control Steps _____ Minimum Capacity _____ %

Refrigerant _____

Condenser Entering Air Temp _____ °F/(°C)

Saturated Discharge Temp _____ °F/(°C)

COOLER

Entering Water Temp _____ °F/(°C)

Leaving Water Temp _____ °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 _____ Phase _____ Hz

Power Supply to Control Circuit _____ Volts _____ Phase _____ Hz

Maximum Instantaneous Current Flow _____ Amps

Minimum Circuit Amps _____

Maximum Fuse Amps _____

Control Circuit Fuse Amps _____

FACTORY-INSTALLED OPTIONS

☐ Copper-Copper Coils

ACCESSORIES

☐ _____
☐ _____
☐ _____

CERTIFIED DIMENSION PRINT



UNITED
TECHNOLOGIES
CARRIER

P.O. BOX 4800
SPRINGHOUSE, PA 15221

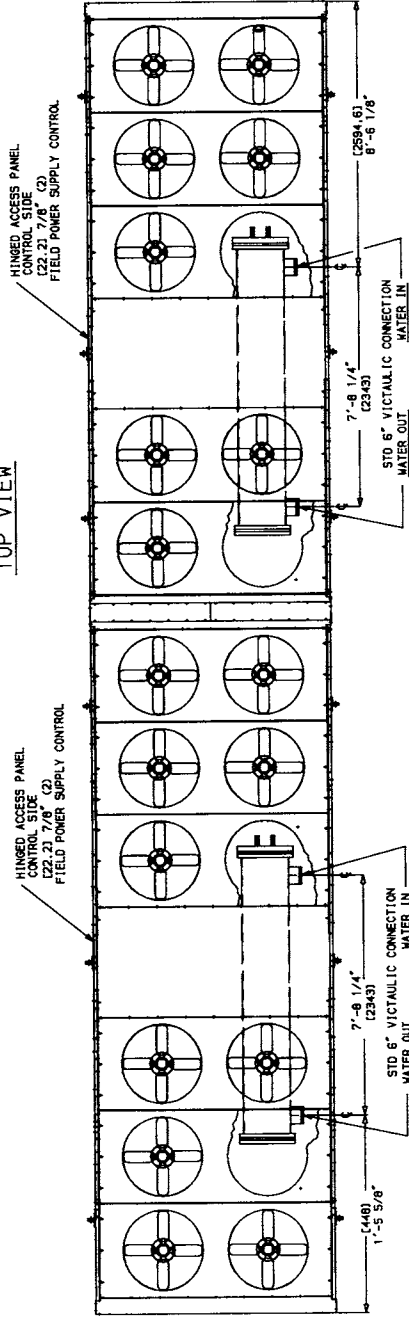
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NOTES:

1. THE APPROXIMATE OPERATING WEIGHT OF THE UNIT IS:
30GT/GN360 - 24349 LBS (11045 KG)
30GT/GN360C - 27140 LBS (12311 KG)
2. UNIT MUST HAVE CLEARANCES FOR AIR FLOW 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.

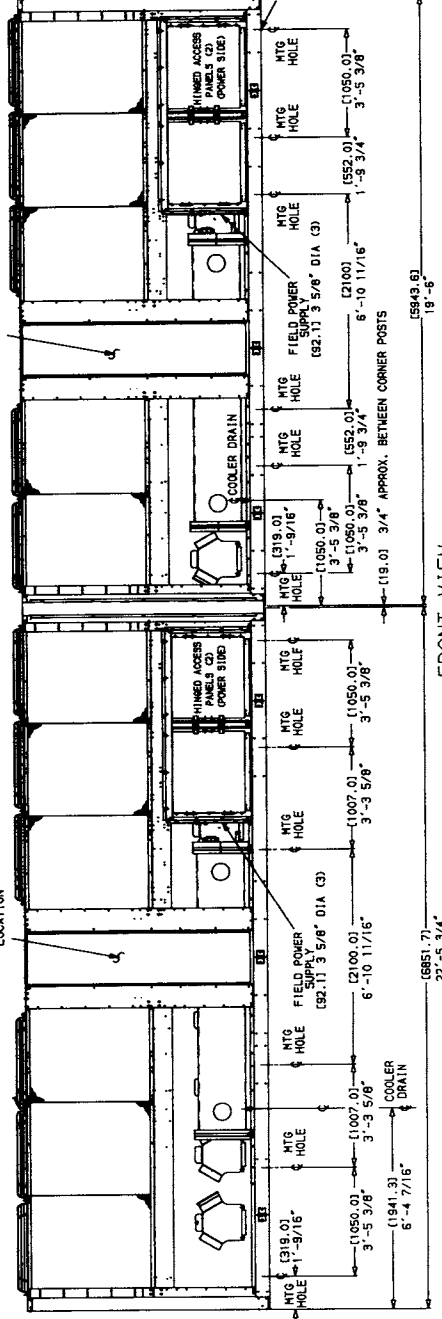
TOP VIEW



OPTIONAL
NON-FUSED
DISCONNECT
LOCATION

OPTIONAL
NON-FUSED
DISCONNECT
LOCATION

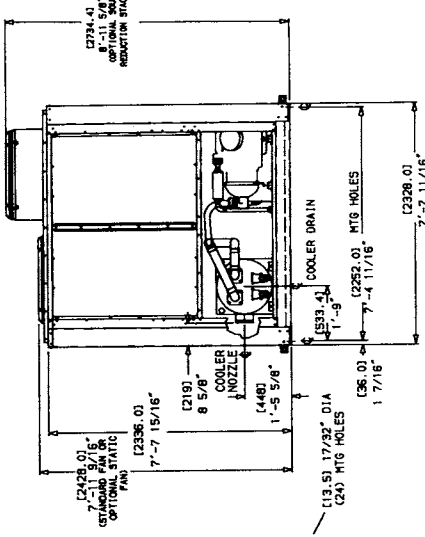
FRONT VIEW



OPTIONAL
NON-FUSED
DISCONNECT
LOCATION

OPTIONAL
NON-FUSED
DISCONNECT
LOCATION

END VIEW



DATE	07/15/93	SUPPNOX	-	30GT/GN360 50HZ AIR COOLED CHILLER	30GT513851	1
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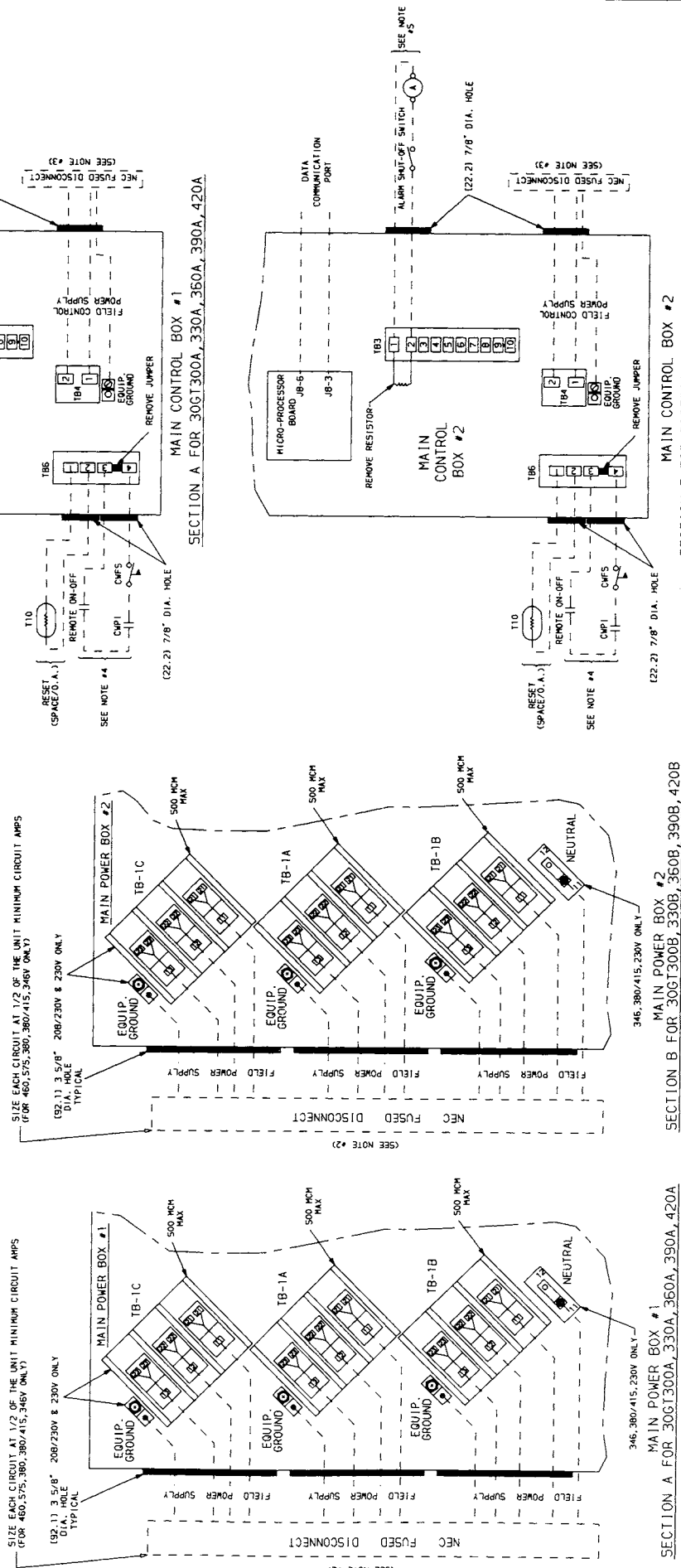
FACTORY WIRING IS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC). FIELD MODIFICATIONS OR ADDITIONS MUST BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
WIRING FOR MAIN FIELD POWER SUPPLY MUST BE RATED 75°C MINIMUM. USE COPPER, COPPER CLAD ALUMINUM OR ALUMINUM CONDUCTORS FOR ALL UNITS EXCEPT USE COPPER CONDUCTORS ONLY FOR 3061330A, 4200A & 4208 208/230 VOLT UNITS (XL & PW).

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 T84. CONNECT NEUTRAL SIDE OF SUPPLY TO TERMINAL 2 OF T84. CONTROL CIRCUIT CONDUCTORS FOR ALL UNITS MUST BE COPPER ONLY.

TERMINALS 3 & 4 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 5VDC, 5MA. LOAD.

REMOVE JUMPER BETWEEN 3 & 4 OF TB6 IF REMOTE ON-OFF IS INSTALLED.
 . THE MAXIMUM LOAD ALLOWED FOR THE REMOTE ALARM CIRCUIT IS 75 VA SEALED, 360 VA INRUSH AT 115
 OR 230 VOLT, DEPENDING ON MODEL. REMOVE RESISTOR ACROSS TERMINALS 1 & 2 OF TB3
 WHEN USING REMOTE ALARM.

A - ALARM
CWFS - CHILLED WATER FLOW SWITCH
CWP1 - CHILLED WATER PUMP INTERLOCK
TB - TERMINAL BLOCK
- - - FIELD POWER WIRING
- - - FIELD CONTROL WIRING
- - - FACTORY INSTALLED WIRING



30CT300, 330, 360, 390, 420 AIR COOLED LIQUID CHILLER-FLOTRONIC I FIELD WIRING DIAGRAM (208/230, 460, 575, 380, 346, 380/415, 230V)	REV ..
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DATE	SUPERSEDES
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