



# 30GTN,GTR,GUN,GUR040-110 AIR-COOLED CHILLERS WITH COMFORTLINK<sup>™</sup> CONTROLS

# — PERFORMANCE DATA

- CERTIFIED DIMENSION PRINT
- FIELD WIRING DIAGRAM



Date:	Supersedes:		30GTN,GUN040-110 MFORTLINK™ CONTROLS AIR-COOLED CHILLERS	30GTN,GUN	Rev.:	
JOB NAME:		LOCATION:				
BUYER:		BUYER P.O. #		CARRIER #		
UNIT NUMBER:		MODEL	MODEL NUMBER:			
PERFORMANCE DATA CERTIFIED BY:			DATE:			
י י			ESCRIPTION			
These air-cooled package chillers are factory piped, wired and charged with HCFC-22 (30GUN and 30GUR units are charged 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 of	one-year warranty (U.S.A. and Canada only).		Proof of flow switches recommende	d.		
Multiple reciprocating serviceable-hermetic compressors mounted on s isolated rails. Automatically reversible oil pump, thermal overload pr tion, suction and discharge service values			Control capacity based on leaving-water temperature, compensated by return- water temperature.			
Calibrated, ambient compensated magnetic-trip circuit breakers with m			Cooler flow may be either constant or variable. Provisions can be made for reset by either outdoor space or return-water			
reset provide single-phase and phase-reversal protection.			temperature.			
Insert-type 180-watt crankcase heaters.			Clear language scrolling marquee alphanumeric diagnostic display and set			
Dual refrigerant circuits. Each refrigerant circuit contains: Hot gas m for each compressor, excessive pressure relief device, liquid line sh valve, replaceable-core filter drier, moisture indicating sight glass, lo			Integral shell-and-tube cooler with dual refrigerant circuits, expanded poly- vinyl chloride insulation (and electric heater cable for freeze protection) optional.			
oil pressure protection.			Non-ferrous condenser coils with mechanically bonded plate fins and integral subcooling circuit			
Automatic lead-lag feature automatically alternates the lead circuit			to Direct-drive condenser fans and motors are supported by a formed-wire			
ensure even cycles and run time.			mount to reduce vibration.			
Single point main power connection.			Fan motors are three-phase with permanently lubricated ball bearings and inherently protected			
Compressor timed pumpdown cycle at start-up and stopping of each re eration circuit cooling cycle.			Multiple fans are used for head pressure control during intermediate season.			
with 125° F (52° C) outdoor air.			Unit can be equipped (accessory) with an energy management module for			
Units equipped with electronic expansion valves are capable of sta and operating down to $0^{\circ}$ F (18° C) outside-air temperatures with baffles installed. Below $0^{\circ}$ F (18° C) outside-air temperature, the unit be modified for low-ambient operation. Below $32^{\circ}$ F ( $0^{\circ}$ C), unit mu-			ting vind nust t be t be t be t be t be t be t be t b			
Low water flow detection provided by internal control devices			Hinged control box access panels.			
Low watch now detection provided by internal control devices.			Alarm circuit wiring standard.			
	PER	FORMA	NCE DATA			
UNIT			COOLER			
Capacity (tons)			Entering Water Temperature	°F (°C)		
Compressor Power Input		kW	Leaving Water Temperature	re°F (°C)		
Unit Power Input		kW	Chilled Water Flow Gpm (L/s)			
Minimum Outdoor Operating Temperature °F		F (°C)	Chilled Water Pressure Drop ft wg (kPa)			
Capacity Control Steps Minimum Capacity			Fouling Factor			
Refrigerant			Fluid			
Condenser Entering Air Temperature °F						
Saturated I	Discharge Temperature °	F (°C)				
ELECTRICAL DATA			FACTORY-INSTALLED OPTIONS			
Power Su	poly to Unit Volts Ph	Hz	Energy Management Module	☐ High Static Fans		
Power Supply to Control Circuit Volts Ph Maximum Instantaneous Current Flow A			☐ Motormaster <sup>®</sup> III Control ☐ Brine — 15° F to 40° F LWT ☐ Cooler Heater	<ul> <li>Hot Gas Bypass</li> <li>Non-Fused Discont</li> <li>Precoated Aluminu</li> </ul>	nect m Fins	
Minimum Circuit Amps			□ Part Winding Start	□ Copper-Copper Cor	ndenser Coils	

□ Thermostatic Expansion Valve (TXV) □ Postcoated Copper Fins □ Low Noise Fans □ Postcoated Aluminum Fins

ACCESSORIES

□	
□	
□	

Maximum Fuse Amps

Control Circuit Fuse Amps





S







-

#### FIELD WIRING DIAGRAM



P 0 B0X 4808

### FIELD WIRING DIAGRAM



DATA COMMUNICATION

PORT

[22.2] 7/8" DIA. HOLE

(ALARM SHUT-OFF SWITCH

\_\_\_\_\_\_

SEE NOTE #4

\*5

Ш

- Factory wiring is in accordance with national electrical code (NEC). Field modifications or additions must be in compliance with all
- protection for 115 volt control circuits and 15 amp maximum protection for 230 volt control circuit for a unit with cooler heaters, 5 amp maximum for a unit without cooler heaters. 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
- pending on model.

