

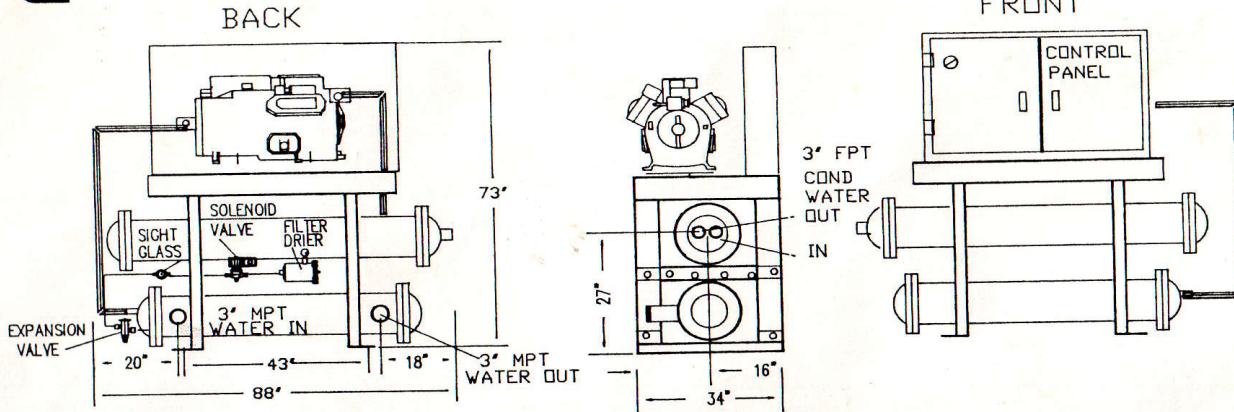
# CONTINENTAL CHILPAC<sup>TM</sup> WATER COOLED CHILLER

R-22  
FOR  
INDOOR  
USE

## DESIGN DATA

Capacity, tons	41.7
Fluid	WATER
Flow rate, GPM	100
Entering Temp	50°F
Leaving Temp	40°F
Water Cooled Condenser	1
Flow rate, GPM (ea)	125
Entering Temp	95°F
Leaving Temp	105°F
Service Voltage	380-3-50
Control Voltage	110-1-50
Compressor, Qty	1
HP (ea)	60
RLA (ea)	90
LRA (ea)	430
Service Ampacity	120

COMPRESSOR  
MODEL NUMBER: CRHR-600  
SERIAL NUMBER: A2060N1613



### SEMI-HERMETIC COMPRESSOR

Rugged, cast iron, accessible, semi-hermetic compressor is reciprocating type with inherent motor overload protection, suction and discharge service valves, crankcase heater, oil, and oil sight glass. Force feed lubrication by reversible gear pump. The compressor is mounted on resilient pads to minimize vibration. Safety internal relief valve as per ASA-B 9.1 Code.

### WATER COOLED CONDENSER/RECEIVER

The condenser is of shell and tube design with the water flowing through the tubes and the refrigerant in the shell.

Shell	Carbon steel
Tubes	Seamless integral finned copper
Tube sheets	Carbon steel
Water heads	Removable both sides, steel or cast iron with baffles
Design working pressure	125 psig water side
	400 psig refrigerant side
Pressure relief valve	.350 psig

### CHILLER-EVAPORATOR

Fully insulated direct expansion design with high efficiency enhanced heat transfer surface. The liquid to be chilled flows through baffled carbon steel shell and has one inlet and outlet connection. The refrigerant flows through copper tubes.

Test Pressure	.300 psig shell
	.375 psig tubes
Design Pressure	.150 psig shell
	.200 psig tubes

### REFRIGERANT PIPING

Liquid line valve with charging connections.  
Filter drier.

Liquid solenoid valve with 115 volt coil.  
Sight glass/moisture indicator.  
Thermal expansion valve.  
Suction line fully insulated design for proper oil return at minimum friction loss and piped to the compressor.  
Discharge lines formed of clean ACR type tubing and pre-formed radius fittings. These are piped between compressor and condenser circuit.

### CONTROL CENTER

All power, starting, safety and operating controls are mounted in a built-in, fully enclosed, NEMA-1 control panel.

### Power controls include:

- Single point electrical terminal block.
- Compressor-motor contractor.
- Control circuit fuses - 15 amps.
- Control circuit terminal block.
- Compressor start time delay relay.

### Safety/Operating controls include:

- Three position switch - indicating ... Off/Pump Down/System Run.
- High pressure control with manual reset.
- Low pressure control with auto reset.
- Oil pressure control, with manual reset.
- Electromechanical thermostat.
- Temperature freeze stat.
- Relays.
- Built-in compressor-motor overload.
- Compressor anti-recycle timer.
- Compressor crankcase heater.

### TESTING, EVACUATION AND REFRIGERANT CHARGING

Each completed system is pressure tested with dry air, evacuated with a high capacity vacuum pump, charged with R-22 and fully tested for all operating and safety controls.

### ASSEMBLY

All above components are assembled on a heavy duty industrial structural steel frame, formed of channels and angles as a single pre-engineered package. The complete unit is cleaned, primed, and painted with exclusive "Continental" pewter grey finish for years of life.

### IMPORTANT NOTICE

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REVISIONS		
NO.	DATE	BY
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**CONTINENTAL PRODUCTS, INC.**  
AIR CONDITIONING • REFRIGERATION • HEAT TRANSFER

P.O. Box 418165, Indianapolis, Indiana 46241 — U.S.A.  
TELEPHONE: (317) 241-4748 FAX (317) 243-5888 TELEX: 27-2194

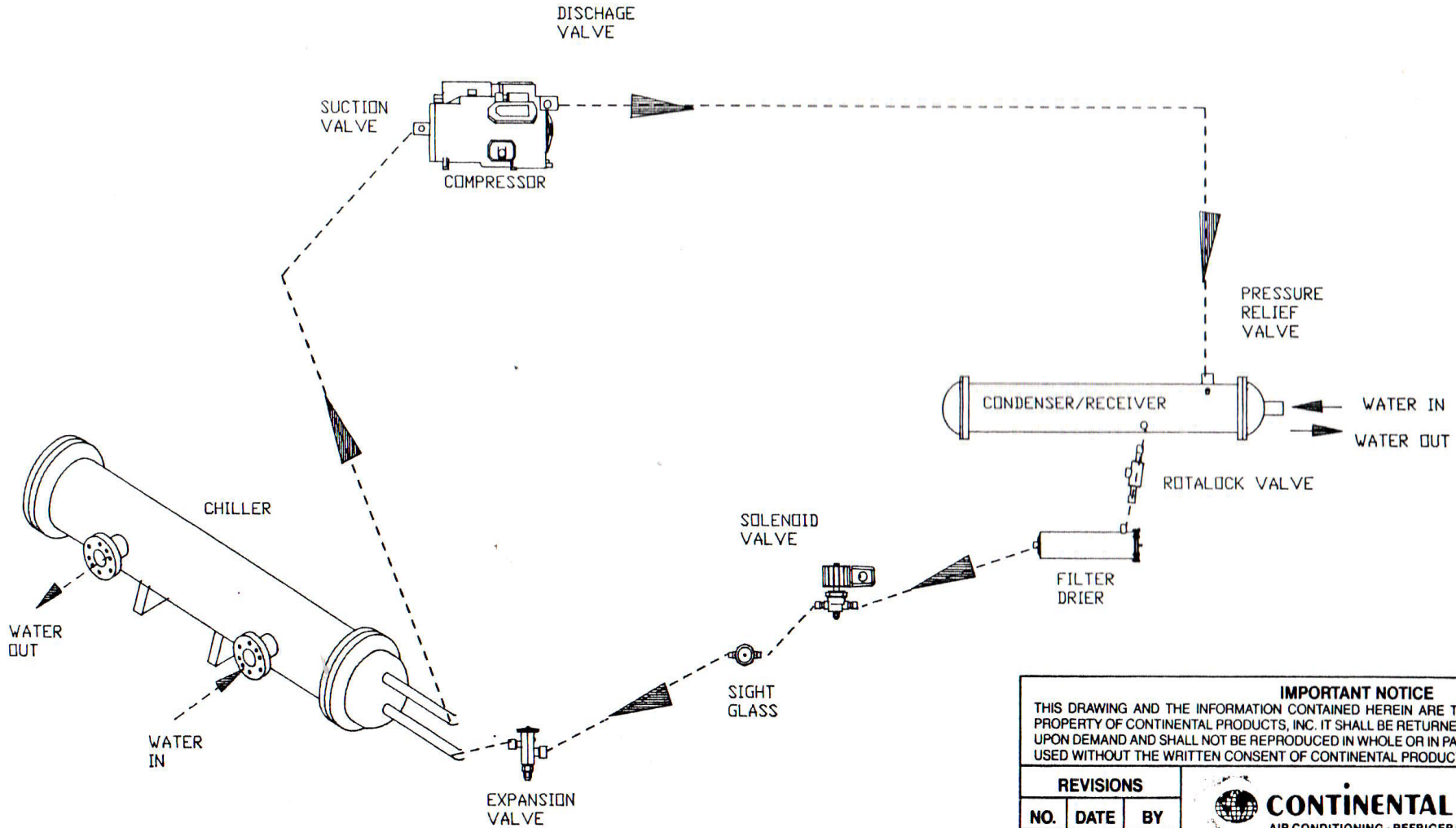
CONTINENTAL CHILPAC WATER COOLED CHILLER  
MODEL: MBW-60 380-3-50

MECHANICAL SPECIFICATIONS


DRAWN BY	GJF	DATE	05-19-92	DRAWING NO.	MB-3529
SCALE	N/A	JOB NO.	141236		

# CONTINENTAL CHILPAC<sup>TM</sup> WATER COOLED CHILLER PIPING AND INSTALLATION DIAGRAM

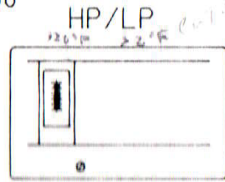
R-22  
FOR  
OUTDOOR  
USE



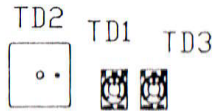
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NO.	DATE	BY	
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6			CONTINENTAL CHILPAC WATER COOLED CHILLER MODEL: MBW-60 380-3-50 MECHANICAL SPECIFICATIONS DRAWN BY GJF DATE 07-16-92 DRAWING NO. SCALE N/A JOB NO. 141236 MB-3561

DUAL PRESSURE SWITCH  
P32-1200-00



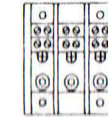
TIMERS  
TD2-AMS115A180  
TD1,3 H3Y



FUSE BLOCK



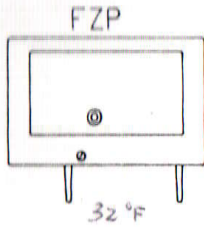
POWER BLOCK



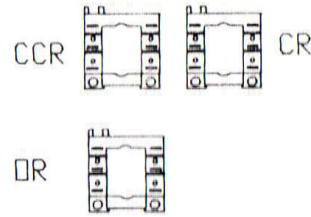
GROUND LUG



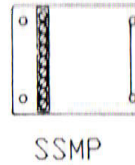
FREEZE PRESSURE  
KP-3



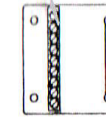
RELAYS R4222F100 □  
R4222C1007



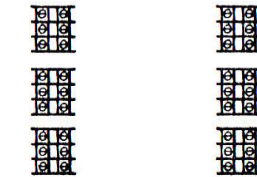
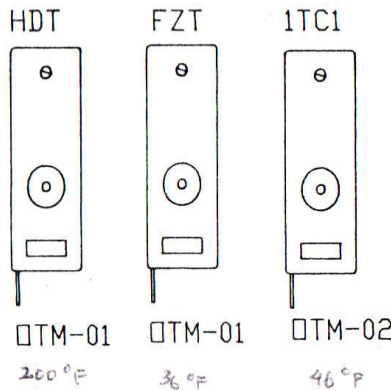
SOLID STATE MOTOR PROTECTOR  
MC20-1101



SOLID STATE OVERLOAD  
948B

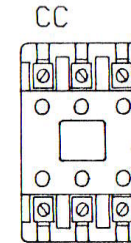


THERMOSTAT



TERMINALS


COMPRESSOR CONTACTOR  
CR353GJ3AA1



50/60  
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NO.	DATE	BY	
1			CONTINENTAL CHILPAC WATER COOLED CHILLER MODEL: MBW-60 380-3-50 ELECTRICAL SPECIFICATIONS DRAWN BY GJF DATE 07-21-92 DRAWING NO. SCALE N/A JOB NO. 141236 EB-1485
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