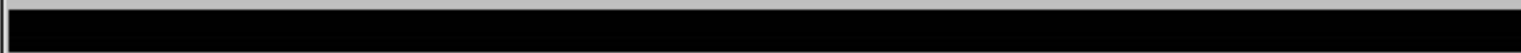


ALARM HISTORY

TOTAL OF 0 ALARMS

ENTRY

MESSAGE



ALARM
COUNT

PAGE
UP

PAGE
DOWN

LINE
UP

LINE
DOWN

DETAILS

CLEAR
ALL

EXIT

COMPRESSOR ALTERNATING SEQUENCE SETTINGS

0.0

ALTERNATING PERIOD, HOURS

MANUAL

ALTERNATING SEQUENCE MODE

0

CURRENT LEAD COMPRESSOR

0000

CURRENT ALTERNATING SEQUENCE

0.0

TIME REMAINING IN CURRENT
SEQUENCE, HOURS

0

MAXIMUM NUMBER OF COMPRESSORS
THAT CAN BE OPERATED

MAIN

MASTER
MENU

REFRIGERANT
PRESSURES

TEMPERATURE
DISPLAYS

OUR METERS

COMPRESSOR
CONTROL

COMPRESSOR CONTROL



1

2

 
INLET OUTLET

3

4

COMPRESSOR ON

S/W PUMP ON

FAULT

CYCLING TEMP



00

00

00

00

0

0

SUCTION

0

0

000

000

DISCHARGE

000

000

COOLING STAGES

COMPRESSOR 1
DETAIL

COMPRESSOR 2
DETAIL

1

2

3

4

COMPRESSOR 3
DETAIL

COMPRESSOR 4
DETAIL

00

00

00

00

MAIN

MASTER
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REFRIGERANT
PRESSURES

TEMPERATURE
DISPLAYS

OUR METERS

COOLING
SETTINGS

COMPRESSOR
RUNNING

INVERTER MODULATING
COMPRESSOR OUTPUT

LIQUID LINE
SOLENOID ON

CRANKCASE
HEATER ON

COMPRESSOR THERMAL
OVERLOAD MODULE ON

COMPRESSOR
INVERTER FAULT

COMPRESSOR CIRCUIT
BREAKER OFF

FREEZE THERMOSTAT
FAULT

COMPRESSOR HIGH
TEMPERATURE FAULT

LOW REFRIGERANT
PRESSURE FAULT

LOW LUBE OIL
PRESSURE FAULT

HIGH REFRIGERANT
PRESSURE FAULT

COMPRESSOR 1



POWER

MAIN

MASTER
MENU

<< BACK

S/W PUMP
RUNNING

S/W PUMP
INVERTER FAULT

S/W PUMP CIRCUIT
BREAKER OFF

S/W CONDENSER
INLET TEMP

S/W CONDENSER
OUTLET TEMP

CYCLING
TEMPERATURE

SUCTION
PRESSURE

DISCHARGE
PRESSURE

LUBE OIL
PRESSURE

SYSTEM INLET
TEMPERATURE

SYSTEM OUTLET
TEMPERATURE

PLATE CHILLER
OUTLET TEMPERATURE

000

000

00

0

000

000

0

0

0

COMPRESSOR
RUNNING

INVERTER MODULATING
COMPRESSOR OUTPUT

LIQUID LINE
SOLENOID ON

CRANKCASE
HEATER ON

COMPRESSOR THERMAL
OVERLOAD MODULE ON

COMPRESSOR
INVERTER FAULT

COMPRESSOR CIRCUIT
BREAKER OFF

FREEZE THERMOSTAT
FAULT

COMPRESSOR HIGH
TEMPERATURE FAULT

LOW REFRIGERANT
PRESSURE FAULT

LOW LUBE OIL
PRESSURE FAULT

HIGH REFRIGERANT
PRESSURE FAULT

COMPRESSOR
Z



POWER

MAIN

MASTER
MENU

<< BACK

S/W PUMP
RUNNING

S/W PUMP
INVERTER FAULT

S/W PUMP CIRCUIT
BREAKER OFF

S/W CONDENSER
INLET TEMP

S/W CONDENSER
OUTLET TEMP

CYCLING
TEMPERATURE

SUCTION
PRESSURE

DISCHARGE
PRESSURE

LUBE OIL
PRESSURE

SYSTEM INLET
TEMPERATURE

SYSTEM OUTLET
TEMPERATURE

PLATE CHILLER
OUTLET TEMPERATURE

000

000

00

0

000

000

0

0

0

COMPRESSOR
RUNNING

INVERTER MODULATING
COMPRESSOR OUTPUT

LIQUID LINE
SOLENOID ON

CRANKCASE
HEATER ON

COMPRESSOR THERMAL
OVERLOAD MODULE ON

COMPRESSOR
INVERTER FAULT

COMPRESSOR CIRCUIT
BREAKER OFF

FREEZE THERMOSTAT
FAULT

COMPRESSOR HIGH
TEMPERATURE FAULT

LOW REFRIGERANT
PRESSURE FAULT

LOW LUBE OIL
PRESSURE FAULT

HIGH REFRIGERANT
PRESSURE FAULT

COMPRESSOR
3



POWER

MAIN

MASTER
MENU

<< BACK

S/W PUMP
RUNNING

S/W PUMP
INVERTER FAULT

S/W PUMP CIRCUIT
BREAKER OFF

S/W CONDENSER
INLET TEMP

S/W CONDENSER
OUTLET TEMP

CYCLING
TEMPERATURE

SUCTION
PRESSURE

DISCHARGE
PRESSURE

LUBE OIL
PRESSURE

SYSTEM INLET
TEMPERATURE

SYSTEM OUTLET
TEMPERATURE

PLATE CHILLER
OUTLET TEMPERATURE

000

000

00

0

000

000

0

0

0

COMPRESSOR
RUNNING

INVERTER MODULATING
COMPRESSOR OUTPUT

LIQUID LINE
SOLENOID ON

CRANKCASE
HEATER ON

COMPRESSOR THERMAL
OVERLOAD MODULE ON

COMPRESSOR
INVERTER FAULT

COMPRESSOR CIRCUIT
BREAKER OFF

FREEZE THERMOSTAT
FAULT

COMPRESSOR HIGH
TEMPERATURE FAULT

LOW REFRIGERANT
PRESSURE FAULT

LOW LUBE OIL
PRESSURE FAULT

HIGH REFRIGERANT
PRESSURE FAULT

COMPRESSOR 4



POWER

MAIN

MASTER
MENU

<< BACK

S/W PUMP
RUNNING

S/W PUMP
INVERTER FAULT

S/W PUMP CIRCUIT
BREAKER OFF

S/W CONDENSER
INLET TEMP

S/W CONDENSER
OUTLET TEMP

CYCLING
TEMPERATURE

SUCTION
PRESSURE

DISCHARGE
PRESSURE

LUBE OIL
PRESSURE

SYSTEM INLET
TEMPERATURE

SYSTEM OUTLET
TEMPERATURE

PLATE CHILLER
OUTLET TEMPERATURE

000

000

00

0

000

000

0

0

0

MODULATE
INVERTER
OUTPUT

RAMP DOWN
START TEMP
deg F &
0-4095

INVERTER
SPEED REF
HZ &
0-4095

INVERTER MODULATION INFORMATION

1



00
0000

00.0
0000

2



00
0000

00.0
0000

3



00
0000

00.0
0000

4



00
0000

00.0
0000

MAIN

MASTER
MENU

COMPRESSOR
CONTROL

COOLING
SETTINGS

1

2

3

4

0

0

0

0

COOLING STAGES • F

0

0

0

0

COOLING DIFFERENTIAL • F

0

0

0

0

COMPRESSOR LOW PRESSURE MINIMUM

0

0

0

0

COMPRESSOR HIGH PRESSURE MAXIMUM

0

0

0

0

COMPRESSOR OIL PRESSURE MINIMUM

0

0

0

0

COMPRESSOR TIME DELAY, SECONDS

0

COOLING MODE HI-TEMP

MAIN

MASTER MENU

REFRIGERANT PRESSURES

TEMPERATURE DISPLAYS

OUR METERS

ALTERNATING SEQUENCE

FACTORY SETTINGS

1

2

3

4



BYPASS THE
LP-HP-OP
TRANSDUCERS



COMPRESSOR
MANUAL RUN



UNIT INLET
SENSOR (UIS)
BYPASS



0

BYPASS SETTING

UNIT OUTLET
SENSOR (UOS)
BYPASS



0

BYPASS SETTING

0

LOW REFRIGERANT
PRESSURE TIME
DELAY, secs

0

LUBE OIL PRESSURE
TIME DELAY, secs

0

NUMBER of DEGREES
IN MODULATING
STAGE

FACTORY
DEFAULT
SETTINGS

PRESS TO
LOAD

MAIN

MASTER
MENU

ADJUST TIME
& DATE

11:30
25-SEP-08

HEATER CONTROL



1

2

3

OFF

OFF

OFF

HEATERS

HEATING STAGES

SYSTEM



INLET

1

2

3

000

000

000

SYSTEM



OUTLET

MAIN

MASTER
MENU

TEMPERATURE
DISPLAYS

OUR METERS

HEATING
SETTINGS

HEATER SETTINGS

1

2

3

0

0

0

HEATING STAGES *F

0

0

0

HEATING DIFFERENTIAL *F

0

0

0

HEATER TIME DELAY, secs

0

HEATING MODE LOW TEMPERATURE ALARM

MAIN

MASTER MENU

HEATING CONTROL

TEMPERATURE DISPLAYS

HOOR METERS

HOUR METER DISPLAY & ADJUSTMENT

000.0

COMPRESSOR 1

SEAWATER PUMP 1

000.0

000.0

COMPRESSOR 2

SEAWATER PUMP 2

000.0

000.0

COMPRESSOR 3

SEAWATER PUMP 3

000.0

000.0

COMPRESSOR 4

SEAWATER PUMP 4

000.0

000.0

HEATER 1

SYSTEM PUMP 1

000.0

000.0

HEATER 2

SYSTEM PUMP 2

000.0

000.0

HEATER 3

MAIN

MASTER
MENU

COMPRESSOR
CONTROL

HEATER
CONTROL



POWER

AQUA AIR

MARINE AIR CONDITIONING
SYSTEMS



COOL MODE
HEAT MODE

SYSTEM PUMPS

**COMPRESSOR
CONTROL
SCREEN**

**SYSTEM
PUMPS**

**HEATER
CONTROL
SCREEN**

**ALARM
HISTORY**

**TEMPERATURE
DISPLAY
SCREEN**

MASTER MENU

S/W PUMPS

COMPRESSORS

HEATERS

**SYSTEM
TEMPERATURES**
• **F**


INLET


OUTLET

MASTER MENU

MAIN

SYSTEM

SYSTEM
PUMPS

TEMPERATURE
DISPLAYS

OUR METERS

COOLING

COMPRESSOR
CONTROL

COOLING
SETTINGS

REFRIGERANT
PRESSURES

COMPRESSOR
INVERTER

ALTERNATING
SEQUENCE

HEATING

HEATER
CONTROL

HEATING
SETTINGS

DIAGNOSTICS

FACTORY
SETTINGS

PLC ERROR
CODES

PLC INPUTS

PLC
OUTPUTS

TEMP
DISPLAY CAL

PANEL
VERSION



AQUA-AIR MANUFACTURING

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www.aquair.com

Version EZA10.1 Project 08020401

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MASTER MENU

PLC CPU INFORMATION

0000 FATAL ERROR CODE V7755

0000 MAJOR ERROR CODE V7756

00000000 MODULE ERROR -
BASE & SLOT NUMBER V7760

0000 MODULE ERROR -
ERROR CODE V7762

0000 CURRENT SCAN TIME, ms V7775

0000 MINIMUM SCAN TIME, ms V7776

0000 MAXIMUM SCAN TIME, ms V7777

MAIN

MASTER
MENU

PLC INPUTS

1**2****3****4**

FREEZE THERMOSTAT	X60	NORMAL	X61	NORMAL	X62	NORMAL	X63	NORMAL
COMPRESSOR INVERTER FAULT	X67	NORMAL	X75	NORMAL	X76	NORMAL	X77	NORMAL
COMPRESSOR THERMAL OVERLOAD	X70	NORMAL	X71	NORMAL	X72	NORMAL	X73	NORMAL
S/W PUMP INVERTER FAULT	X100	NORMAL	X101	NORMAL	X102	NORMAL	X103	NORMAL
SYS PUMP STARTER AUX POINT	X105	NORMAL	X106	NORMAL				
COMPRESSOR C/B AUX POINT	X114	NORMAL	X115	NORMAL	X116	NORMAL	X117	NORMAL
S/W PUMP C/B AUX POINT	X120	NORMAL	X121	NORMAL	X122	NORMAL	X123	NORMAL
HEATER C/B AUX POINT	X126	NORMAL	X127	NORMAL	X130	NORMAL		
HEATER CONTACTOR AUX POINT	X131	NORMAL	X132	NORMAL	X133	NORMAL		

X64 NORMAL

X65 NORMAL

X74 NORMAL

X112 NORMAL

X125 NORMAL

COOLING
FLOW SWITCHHEATING
FLOW SWITCHHI-TEMP
THERMOSTATREMOTE CHILLER
SHUTDOWNSYS PUMP
C/B AUX PT ON OFF
INPUT STATUS

MAIN

MASTER
MENU

PLC OUTPUTS

	1		2		3		4	
LIQUID LINE SOLENOIDS	Y0	NORMAL	Y1	NORMAL	Y2	NORMAL	Y3	NORMAL
HEATER CONTACTORS	Y4	NORMAL	Y5	NORMAL	Y6	NORMAL		
CRANKCASE HEATERS	Y10	NORMAL	Y11	NORMAL	Y12	NORMAL	Y13	NORMAL
COMPRESSOR OVERLOAD	Y14	NORMAL	Y15	NORMAL	Y16	NORMAL	Y17	NORMAL
GENERAL CHILLER ALARM OUTPUT	Y20	NORMAL						
S/W PUMP INVERTER START RELAY	Y21	NORMAL	Y22	NORMAL	Y23	NORMAL	Y24	NORMAL
SYSTEM PUMP STARTER	Y26	NORMAL	Y27	NORMAL				
COMPRESSOR INVERTER START RELAY	Y30	NORMAL	Y31	NORMAL	Y32	NORMAL	Y33	NORMAL

MAIN

**MASTER
MENU**

REFRIGERANT PRESSURES

SUCTION PRESSURE

DISCHARGE PRESSURE

OIL PRESSURE

1



OFF



OFF



OFF

1

2



OFF



OFF



OFF

2

3



OFF



OFF



OFF

3

4



OFF



OFF



OFF

4

MAIN

MASTER
MENU

COMPRESSOR
CONTROL

SYSTEM PUMPS



0000

SUCTION
PRESSURE

0000

DISCHARGE
PRESSURE

MAIN

MASTER
MENU

COMPRESSOR
CONTROL

HEATER
CONTROL

SYSTEM WATER TEMPERATURE SENSOR CALIBRATION

MAIN INLET

OFF

ACTUAL
SENSOR TEMP



+

AMOUNT TO
ADD



-

AMOUNT TO
SUBTRACT



=

DISPLAYED
TEMPERATURE



MAIN OUTLET

OFF



+



-



=



ALL TEMPERATURES DISPLAYED ARE IN °F

MAIN

MASTER
MENU

TEMPERATURE
DISPLAYS

SYSTEM WATER TEMPERATURES °F

CHILLER PLATE OUTLET SENSORS



MAIN INLET

1

2

3

4

MAIN OUTLET

OFF

OFF

OFF

OFF

OFF

OFF

ELECTRICAL PANEL AIR TEMPERATURE



OFF

SEAWATER TEMPERATURES °F



CONDENSER OUTLET SENSORS



S/W INLET

CONDENSER 1 & 2

1

2

3

4

S/W INLET
CONDENSER 3 & 4

OFF

OFF

OFF

OFF

OFF

OFF

MAIN

MASTER
MENU

REFRIGERANT
PRESSURES

OUR METERS

COMPRESSOR
CONTROL

HEATER
CONTROL

TIME AND DATE ADJUSTMENT

TIME

00000000

ENTER THE NEW TIME
HERE IN THE FOLLOWING
FORMAT:
00HHMMSS

00 = 00 (2 ZEROES, NOT
USED)

HH = HOUR, 1-23

MM = MINUTES, 1-59

SS = SECONDS, 1-59

EXAMPLES

10:13am 00101300

4:49pm 00164900

Press to Update
TIME

CURRENT TIME

13:17:52

09/25/08

CURRENT DATE

DATE

00000000

ENTER THE NEW DATE
HERE IN THE FOLLOWING
FORMAT:
YYMMDDdw

YY = YEAR, 0-99

MM = MONTH, 1-12

DD = DAY, 1-31

dw = Day of Week, 0-6

(0=Sunday, 1=Monday,

2=Tuesday), etc

EXAMPLE

Friday, August 22, 2008

= 08082205

MAIN

MASTER
MENU

Press to Update
DATE