Air Handler Wiring Diagrams
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NOTICE

Change the following programmable parameters when using any Chilled Water Air Handler with NO VALVE:

**AH-PASSPORT I/O**: For units with a shaded-pole fan motor, P-16 must be set to "SP". For units with a split-capacitor motor, P-16 must be set to "SC". The fan operating mode must be changed from continuous ("con" - factory default) to cycle-on-demand ("CYC") by setting P-14 to "CYC".

**AH-ELITE**: For units with a shaded-pole fan motor, P-14 must be set to "SP". For units with a split-capacitor motor, P-14 must be set to "SC". The fan operating mode must be changed from continuous ("con" - factory default) to cycle-on-demand ("CYC") by pressing and holding the fan button for 5 seconds.

**AH-Maxx**: P-8 must be set to "OFF" for the fan to cycle on demand of the thermostat only (all units).

**FX**: P-14 must be set to "CYC" for the fan to cycle on demand of the thermostat only (all units).

**FX-Maxx**: P-13 must be set to "CYC" for the fan to cycle on demand of the thermostat only (all units).
**Ah-Passport**

*See Note*

**DISPLAY**

**Jumper #4 (JMP4)**

MUST BE CUT

**When using as a chilled water air handler controller,**

**High pressure switch**

**MUST BE JUMPED ON BOARD.**

**L1**

**N/L2**

**GND**

**115–230/50–60/1 Power supply**

**Display panel**

**Optional Alt. air sensor**

**Water inlet sensor**

**Air handler junction box**

**Refer to the diagram indicated on the air handler’s label.**

**A copy is inside the junction box.**

**Note:**

**“At” airhandlers only need one of these wires.**

**However, it must be at least #12**

**If the unit has electric heat.**

---

**Dometic Corporation**

**Ah-Passport wired to chilled water air handler**

**115-230Vac/50-60Hz/10**

**Date:** 7/30/03  **Dwg by:** DRR  **Part number:** 293-510246

**Scale:** NTS  **Apr by:** JES  **Rev:** H3010101

---

**Reference DWG(S) H4060001 for terminal block label.**

---

**Passport I/O**

**Electrical Box**

**Display Panel**
- Optional Alt. Air Sensor
- Optional Outside Air Sensor
- Water Inlet Sensor

**NOTE #1:**
Jumper #1 (JP1) must be cut when using as a chilled water air handler controller.

**NOTE #2:**
On boards without a heater relay installed, connect heater L1 to terminal strip location marked as "heater L1".

**L1, L2**
- Comp Fan Pump Pump Comp Valve Fan

**Terminal Block Label**
- L1
- L2

**Passport I/O**

**Air Handler Junction Box**
Refer to the diagram indicated on the air handler's label. A copy is inside the junction box.

**Power Supply**
- 115–230/50–60/1

**NOTE:**
"At" air handlers only need one of these wires. However, it must be at least #12 if the unit has electric heat.

---

**Dometic Corporation**

**AH Passport I/O**

**Generic Wiring Diagram**

**Date:** 7/30/03  **Rev:** 293-510247  **Part Number:** H3010102

**Scale:** NTS  **Rev:** DRR  **Part Number:** JES  **Rev:** DRR

---

Up to 3 air handlers can be controlled by one Elite-Passport I/O board. Wire each in parallel as shown above, either from the #1 AH Box, or directly from the Passport board.

Maximum current limits are:
- Blower: 5 amps
- Heat: 28amps (6kW @ 230VAC)

NOTES
1. Jumper 1 (JP1) must be cut when using as a CW air handler control.
2. Boards made before 1/2/2005 have a heater relay. Refer to earlier drawing.
3. Alternatively, air handlers may be daisy-chained.

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Optional Alt. (return) Air Sensor
Optional Outside Air Sensor
Water Inlet Sensor

Keypad/Display
Elite or Passport I/O

Passport I/O Circuit Board

Up to 2 DC air handlers can be from this Passport I/O kit. Refer to drawing H3010112 for 3 or 4 air handlers. (Requires special control box.)

Maximum electric heat current limit is 26amps (6kW @ 230VAC).

Field Wiring (Unit #1) — — — —
Field Wiring (Unit #2) — — — — — —

NOTES
1. Jumper 1 (JP1) must be cut when using as a CW air handler control.
2. Heater wires only required if air handler has electric heat. Make sure the Heat1 and L2 wires are sized correctly.

Dometic Corporation

Marine Air

WIRING SCHEMATIC
Elite or Passport I/O to AT-DC Air Handlers

DATE: 4/17/07    DWG BY: DRR    PART NUMBER: 0880068    DWG
SCALE: NTS    APR BY: JES

L-2295B Air Handler Wiring Diagrams

Air Handler Junction Box

Refer to the diagram indicated on the air handler's label. A copy is inside the junction box. Disregard changeover switch wiring shown in junction box - use this wiring instead.

Included in Harness

Dometic Corporation

AH 2-Knob Control No Water Valve
Or Heater Option, 115-230VAC/50-60Hz/1Ø

Marine Air

H3010071
NOTE:

1) THESE YELLOW WIRES ARE ONLY NEEDED BY AIR HANDLERS WITH ELECTRIC HEAT.

2) "AT" AIR HANDLERS ONLY NEED ONE OF THESE L2 WIRES. HOWEVER, IT MUST BE AT LEAST #12 IF THE UNIT HAS ELECTRIC HEAT.

Dometic Corporation | Marine Air
3-KNOB AIRHANDLER CONTROL W/COS

DATE: 7/30/03
SCALE: NTS
APR BY: JES
PART NUMBER: 293-510248

DWG H3010103 REV D

NOTE: JMP 1 MUST BE CUT TO OPERATE FX CONTROL WITH OPTIONAL ELECTRIC HEAT

NOTE: "AT" AIRHANDLERS ONLY NEED ONE OF THESE WIRES. HOWEVER, IT MUST BE AT LEAST #12 IF THE UNIT HAS ELECTRIC HEAT.

AIR HANDLER JUNCTION BOX REFER TO THE DIAGRAM INDICATED ON THE AIR HANDLER'S LABEL. A COPY IS INSIDE THE JUNCTION BOX.
NOTE: CHANGE-OVER THERMOSTAT TYPICALLY CONNECTS DIRECTLY TO THE POWER LOGIC CONTROL BOX WHEN INSTALLED BY CUSTOMER. HOWEVER, IT WILL BE CONNECTED AS SHOWN IF CONNECTED AT DOMETIC FACTORY AND INDICATED BY "COS" IN THE MODEL NUMBER.

(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) OPTIONAL POLARIZED PLUGS

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REV | DATE | REVISION DESCRIPTION | DWG | APR
---|---|---|---|---
A | 12/22/04 | UPDATE TITLE TO INCLUDE CRUISAIR,CAD001-04 | DRR | JES
B | 1/6/05 | ADDED NOTE FOR COMMONIZATION OF MODELS,CAD018-05 | DRR | JES
C | 2/15/05 | ADDED OPT POLARIZED PLUGS & NOTE 2,CAD116-05 | DRR | JES
D | 3/11/05 | ADDED JUMPER TO TERM BLOCK,CAD172-05 | DRR | JES

(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) OPTIONAL POLARIZED PLUGS.

NOTE:
CHANGE-OVER THERMOSTAT TYPICALLY CONNECTS DIRECTLY TO THE POWER LOGIC CONTROL BOX WHEN INSTALLED BY CUSTOMER. HOWEVER, IT WILL BE CONNECTED AS SHOWN IF CONNECTED AT DOMETIC FACTORY AND INDICATED BY "CHS" IN THE MODEL NUMBER.

Dometic Corporation
LABEL, WIRING DIAGRAM
AT6-18F(Z)

L-2295B Air Handler Wiring Diagrams
13

(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) OPTIONAL POLARIZED PLUGS
* DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

**NOTE:**

CHANGE-OVER THERMOSTAT TYPICALLY CONNECTS DIRECTLY TO THE POWER LOGIC CONTROL BOX WHEN INSTALLED BY CUSTOMER. HOWEVER, IT WILL BE CONNECTED AS SHOWN IF CONNECTED AT DOMETIC FACTORY AND INDICATED BY "COS" IN THE MODEL NUMBER.

4 CONDUCTOR SHIELDED CABLE

**Heaters (If Applicable)**

**Dometic Corporation**

AT6-36HV(Z), AH6-18DT2(Z), AH6-18FD(Z) EBM SHIELDED BLOWER

**Date:** 1/2/04  **DWG BY:** DRR  **PART NUMBER:** 293-510263  **DDW:** H7060011
Dometic Corporation

AH PASSPORT I/O W/ DC BLOWER

GENERIC WIRING DIAGRAM

DATE: 1/2/06	DWG BY: DRR	PART NUMBER: H3010110
SCALE: NTS	APR BY: MFG	0440093

L-2295B Air Handler Wiring Diagrams

Dometic Corporation

Marine Air

AH24-32FBZCH3 FLY BRIDGE W/EBM BLOWERS
230VAC/60HZ/1Ø OPTIONAL 3.0KW HEAT

DATE: 1/24/03  DWG BY: DRR  PART NUMBER: 335608
SCALE: NTS  APR BY: JES  DWG: H3010097  REV: B

(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) ONLY AH BT'S WITH DUAL HEATERS USE THE SECOND PAIR OF OVERLOADS AND SECOND HEATER ELEMENT.
(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) ONLY AH BT'S WITH DUAL HEATERS USE THE SECOND PAIR OF OVERLOADS AND SECOND HEATER ELEMENT.

Dometic Corporation

Cruisair

HIGH FAN SPEED CONFIGURATION

LABEL, WIRING DIAGRAM, SL/BT-AT BOX W/COS
This diagram is for PLTX-HVSTAT made after Sept. 2005. For old PLTX-HVSTAT made before Sept. 2005, refer to drawing 082713.

Wiring Instructions:
1. Connect wire harness from P/L box to #1 air handler junction box.
2. Connect AC power and ground from electrical panel to AH junction box.
3. Mount TSEP temp sensor built in return air path.
4. Mount Change-Over Temp on air handler piping.
5. Plug in CXP cable at PLTX-HV and the keypad/display.
6. Up to 3 units can be installed on one control.

If additional units are installed, wire the valves, blower, and heat (if applicable) in parallel as shown.

- Maximum blower current is 6 amps.
- Maximum elect. heat current is 26 amps (3kW at 115V, 6kW at 230V).

Note:
- PLTX wire colors may not match the wire colors on the air handler.
- Follow the label on the air handler term. strip.

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L-2295B Air Handler Wiring Diagrams

**PLTX Wire Colors**
- BLK - L1 Power
- WHT/RED - L2/N
- ORG - Blower L1
- BLUE - Valve L1
- PUR - Heat L1
- GRN - Ground

Power Input (115VAC or 230VAC)

Converter
230VAC / 10VDC

DC Air Handler #1 Junction Box

- L2/N L1

No connections on board mount terminal strip

SMXII Power/Logic Box

Change-Over Thermostat
- RED
- GRN

Install COS on AH handler piping

* Do NOT remove L2/N jumper UNLESS a VSD fan speed control is installed

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Wiring Instructions:
1. Connect wire harness from P/L box to #1 air handler junction box
2. Connect AC power and ground from electrical panel to AH junction box.
3. Mount TSEP temp sensor bulb in return air path.
4. Mount Change-Over Tstat on air handler piping insulation over COS to prevent condensation.
5. Plug in CXP cable at PLTX–HV and the keypad/display.
6. Up to 3 units can be installed on one control.
   If additional units are installed, wire the valve, blower, and heat (if applicable) in parallel as shown.
   Maximum blower current is 6 amps.
   Maximum elect. heat current is 26 amps (3kW at 115V, 6kW at 230V)

PLTX Wire Colors
BLK = L1 Power
WHT/RED = L2/N
RED = Blower L1
ORG = Valve L1
YEL = Heat L1
GRN = Ground

Note:
PLTX wire colors may not match the wire colors on the air handler.
Follow the label on the air handler terminal strip.

Air Handler #1 Junction Box

PLTX–HVSTAT SMXII Power/Logic Box

HUMIDITY CONTROL
Remove jumper and connect humidistat to H PRESS tabs on P/L board
ACTION: Dry = Closed

Power/Logic Board (A-2887)

Change-Over Thermostat
Install COS on air handler piping

Field Wiring

Dometic Environmental CRUISAIR
Wiring Diagram - AT Air Handler with PLTX-HVSTAT SMXII
115/230VAC, with or without elect. heat

8/8/05    DWG BY: CE    DWG: 082713
This diagram is for PLTX-HV and AT-COS air handlers which have a change-over stat installed on the air handler.

Wiring Instructions:
1. Connect wire harness from P/L box to #1 air handler junction box.
2. Connect AC power and ground from electrical panel to AH junction box.
3. Plug TSEP cable to PLTX-HV, and install sensor bulb in the return air path to the air handler.
4. Plug in CXP cable at PLTX-HV and the keypad/display.
5. Up to 3 units can be installed on one control.
   If additional units are installed, wire the valve, blower, and heat (if applicable) in parallel as shown.
   Maximum blower current is 6 amps.
   Maximum elect. heat current is 26 amps (3kW at 115V, 6kW at 230V)

Dometic Environmental CRUISAIR

Wiring Diagram - AT-COS Air Handler with PLTX-HV SMXII
115/230VAC, with or without elect. heat

8/8/05  DWG BY:  CE  DWG 082714  REV

PLTX Wire Colors
BLK – L1 Power
WHT/RED – L2/N
ORG – Blower L1
BLUE – Valve L1
PUR – Heat L1
GRN – Ground

Note:
PLTX wire colors may not match the wire colors on the air handler.
Follow the label on the air handler term, strip.
Refer to Field Notice FN242Qs for more info.

* Do NOT remove L2/N jumper UNLESS a VSD fan speed control is installed.
**Wiring Diagram - AT-COS Air Handler with TS3 3-Knob Switch**

**115/230VAC**

**Replacement Parts:**
- Mode Switch: #4023500
- Fan Speed: A-4215 (115V), A-4216 (230V)
- Thermostat: #4060703

**Wiring Instructions:**
1. Run 5 conductors from TS3 switch terminal strip to AT junction box.
2. Connect AC power and ground from electrical panel to AT junction box.
3. Install jumper on AT terminal strip between RED and VALVE.
4. Mount thermostat bulb in return air flow and anticipate bulb in discharge airflow.
5. Up to 3 units can be installed on one control.
   - If additional units are installed, wire the valve and blower in parallel as shown.
   - Maximum blower current is 4 amps.

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**Wiring Diagram - AT-COS Air Handler with TS3 3-Knob Switch**

115/230VAC

8/9/05

DWG BY: CE

082716

REV
Wiring Instructions:
1. Connect wire harness from P/L box to #1 air handler junction box, except for Orange (Blower) wire.
2. Connect AC power and ground from electrical panel to #1 box, and jumper power over to the VSD.
3. Remove jumper from air handler terminal strip (L2/N and Blwr L2/N).
4. Butt connect to the Orange (fan signal) wire from P/L box and run the wire to the "Fan Signal" VSD terminal.
5. Run Blwr L1 and L2/N from VSD to #1 air handler.
6. Up to 2 units can be installed on one control.
   If additional units are installed, wire the valve, blower, and heat (if applicable) in parallel as shown. Remove L2/N jumper from 2nd unit.
   Maximum blower current is 6 amps.
   Maximum electric heat current is 26 amps (3kW at 115V, 6kW at 230V).

- Orange wire from the P/L box is the fan signal wire to the VSD.

- Wiring connections for air handlers without aux. heat is same as shown above. Purple (heat) wire from PLTX-HV box can terminate at air handler terminal strip, but no other wires will be connected at this point.

**Field Wiring**
NPLTX SMX Net Power/Logic Box

From the OUT socket of the board before this unit
To the IN socket of the next board after this unit

Humidity Control
Remove jumper and connect humidistat to HI PRESS tabs on P/L board

ACTION:
Damp = Open
Dry = Closed

3' (.9m) wire harness

Humidity Control
Remove jumper and connect humidistat to HI PRESS tabs on P/L board

ACTION:
Damp = Open
Dry = Closed

P/L Board
(A-282NT)

Inside TSEP
Temperature Sensors
(Purchased separately)

Wiring Instructions:
1. Connect wire harness from P/L box to #1 air handler junction box
2. Connect AC power and ground from electrical panel to #1 AH junction box
3. Plug inside TSEP cable to P/L box, and install sensor bulb in the return air path to the air handler
4. Plug outside TSEP cable to P/L box, and install sensor bulb in a shaded location (only 1 outside TSEP is needed if all units are networked together)
5. Plug in CXP cable at P/L box and the keypad/display

Up to 3 units can be installed on one control.
If additional units are installed, wire the valve, blower, and heat (if applicable) in parallel as shown. Maximum blower current is 6 amps. Maximum electric heat current is 26 amps (3kW at 115V, 6kW at 230V)

* Do NOT remove L2/N jumper UNLESS a VSD fan speed control is installed

NPLTX Wire Colors
BLK - L1 Power
PWR/RED - L2/N
ORG - Blower L1
BLUE - Valve L1
PUR - Mod L1
GRN - Ground

Note:
NPLTX wire colors may not match the wire colors on the air handler. Follow the label on the air handler term strip.
L-2295B Air Handler Wiring Diagrams

Dometic Environmental Corporation - Cruisair

LABEL, WIRING DIAGRAM
AT6-36HV(Z) COS

REV DATE REVISION DESCRIPTION DWG APR
A 8/11/05 REVISED WIRE COLOR ON TERM#2, CAD462-05 DRR JES

(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) HR YEL/PURPLE#12
L-2295B Air Handler Wiring Diagrams

Dometic Environmental Corporation - Cruisair

LABEL, WIRING DIAGRAM
AT4F(Z) COS

Dwg Created by Cad452-05

Date: 8/8/05  Dwg By: Drr  Part Number: 0440082  Dwg C3010002

Scale: Nts  Apr By: Jes

(1) DO NOT REMOVE BLOWER L2/N JUMPER UNLESS A VSD FAN SPEED CONTROL IS INSTALLED.

(2) COLORED INDICATOR TAPE AT TERMINAL STRIP.