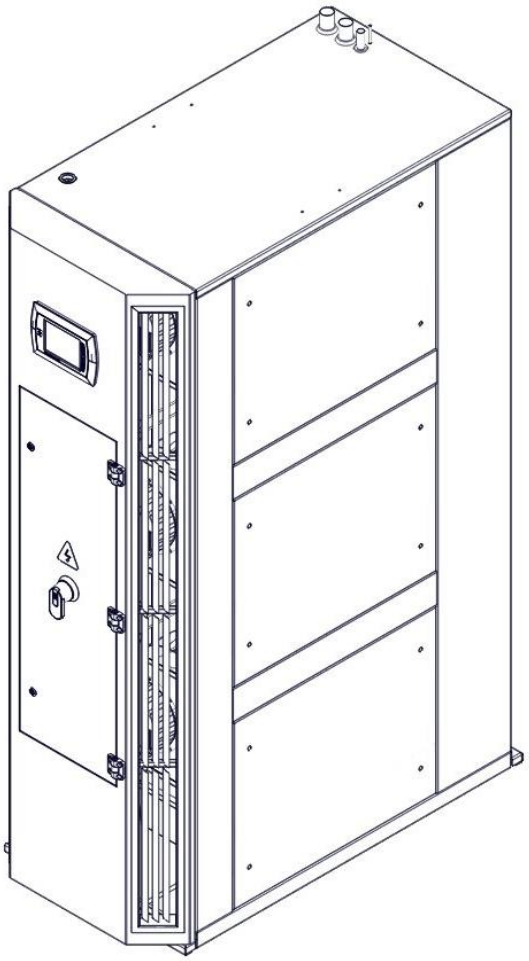
INSTALLATION AND OPERATIONAL MAINTENANCE MANUAL

IN ROW SYSTEMS

CKC AYAN IV SERIES 2 TO 5 TON



IN ROW COOLING

COMPU-AIRE, INC.

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ISO 9001-2008 REGISTERED COMPANY

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SAFETY INSTRUCTIONS

Only qualified personnel should install and service this equipment. The installation, start-up, and servicing of heating, ventilating, and air conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by unqualified personnel could result in serious damage and/or death. When working on the equipment, observe all precautions in this literature and on the tags, stickers, and labels that are attached to the equipment as well as all local codes and safety requirements.

This user's manual contains important safety instructions that should be followed to properly install and maintain Compu-Aire system Compu Kool Chilled Water In Row series. Read this manual thoroughly before attempting to install or operate this unit. Store this manual at safe place for future reference.
Adhere to all warnings, cautions and safety instructions on the unit and in this manual. Follow all local codes and safety requirements to install and service this unit.

WARNING
Installation and service of this equipment should be done by qualified personnel who have been specially trained and qualified in the installation of specific HVAC equipment. Improper installation could result in unaccountable loss or damage. Compu Kool Chilled Water In Row series equipment requires a permanent power connection from an isolated circuit breaker. Customer must provide earth ground to the unit per NEC, CEC and local codes as applicable.

- Risk of high speed moving parts can cause injury or death.
- Risk of heavy unit falling over
- Risk of hot surfaces, sharp edges, splinters and exposed fasteners can cause injury

WARNING
High voltage danger!
Arc flash and electric shock hazard.

Disconnect main power supply from the feeder before working on this unit. Proceed with caution and always wear protective equipment per NFPA 70E before working within electrical control panel. Failure to comply can cause serious injury or death.

WARNING
Evaporator unit requires drain connections and water supply.
Do not locate these connections above any equipment that could sustain water damage.

NOTICE

- Improper storage can cause unit damage. Keep the unit upright and store it indoor. Protect the unit from dampness, freezing temperatures and contact damage.
- Risk of overhead interference. The unit may be too tall to fit through a doorway. Measure the unit and doorway heights and follow the installation plans to verify clearances prior to moving the unit.
- Risk of clogged or leaking drain lines. Drain line must be inspected and maintained to ensure that drain water runs freely through the drain system. Improper installation, application and service practices can result in water leakage from the unit. Water leakage can cause severe property damage and loss of critical data center equipment. Suitable leak detection system shall be installed for the unit and water supply lines to minimize the damage.
- Risk of leaking unit coil/or piping due to freezing and/or corrosion can cause equipment and building damage. Use proper antifreeze and inhibitors to prevent freezing and premature coil corrosion. If required, the water or water/glycol solution shall be analyzed every six months to determine the pattern of inhibitor depletion.

GENERAL

The Compu-Aire Compu-Kool series is a complete environmental control system, factory wired, tested, and specially designed to provide temperature, humidity, and dust control for computer room installations.

The unit as shipped from the factory includes a EC fan or blower/motor package, chilled water coil, control valve, reheat and humidifier (if applicable), electrical control package, controller display, and other specified special options.

The AYAN IV Series captures high temperature air from the rear of the equipment (hot aisle) and discharges conditioned air from the front of the equipment (cold aisle). All service access is from the front or rear of the equipment. Operator controls are located on the front of the equipment. The equipment comes completely factory assembled, piped, and wired.

TRANSPORTATION MODE

Visual inspection of the outer casing provides a simple indication of possible internal damage to the equipment. Move the unit to the installation site in the upright position. **FILE A CLAIM WITH THE SHIPPING COMPANY IF THE SHIPMENT IS DAMAGED OR INCOMPLETE. FREIGHT DAMAGE CLAIMS ARE THE RESPONSIBILITY OF THE RECEIVER.**

Optional articles such as jack stand parts, condensate pump, and remote control panel are packed inside the unit.

IMPORTANT – READ BEFORE INSTALLING

Check the power supply. Voltage, frequency and phase must correspond to that specified on the unit nameplate. The power supply must be able to handle the additional load imposed by this equipment.

LOCATING THE UNIT

Consult local building codes and National Code for special installation requirements. When installing the unit, allow sufficient space for air flow clearance, wiring and servicing the unit. ***Front side and rear side should have a minimum clearance of 36 inches for servicing***.

The unit you have received is very special. It is specifically designed for Computer Room applications. Please read the following INSTRUCTIONS prior to working on the equipment.

ELECTRICAL DATA:
208v, 3 phase, 60 Hz, 460v, 3 phase, 60 Hz, 208v, 1 phase, 60 Hz, 575v, 3 phase, 60 Hz, 3 phase, 60 Hz, or 415/380v, 3 phase, 50 Hz.
Please check the voltage.

NAMEPLATE DATA
Refer to the unit name plate. It indicates all the electrical data for the unit. LOCAL ELECTRICAL CODES OR ANY OTHER APPLICABLE CODES MUST BE COMPLIED WITH PRIOR TO WORKING IN THE UNIT.

Check you unit for the kind of reheat it has. For type C and D piping connections are required. Make sure shut off valves are provided external to the unit.

CHILLED WATER COOLING COIL
The equipment is supplied with a chilled water coil that is constructed with seamless copper tubes that are mechanically bond corrugated aluminum fins. The coils are tested and cleaned prior to installation at the factory. The equipment is supplied with a stainless steel condensate drain pan with a built in condensate pump.

CHILLED WATER VALVE
The equipment comes with a factory piped 2-way pressure independent modulating control valve. The pressure independent valve regulates the water flow eliminating the need for balancing valves. The pressure independent control valve combines a differential pressure regulator with a 2-way control valve to supply a specific flow for each degree of ball opening regardless of system pressure fluctuations.

CONDENSATE DRAINS
An internal p-trap condensate drain is provided and connected to the condensate water pump mounted in the unit.

CONDENSATE PUMP
(Optional): When provided it is mount on the unit or shipped separately. To avoid any flooding problems provide a separate power source. WIRE THE PUMP TO SHUT THE SYSTEM OFF IN CASE OF OVERFLOW OR PUMP FAILURE. A SYSTEM CUT OFF TERMINAL IS PROVIDED IN THE UNIT.

CONTROL PANEL

This is for the air cooled condenser which is shipped from COMPU-AIRE with the air conditioner. This control panel is to be filed installed and wired in the field. **MAKE SURE TO PROPERLY HOOK UP THE SENSOR CONNECTION TO THE SCR CONTROLLER WHICH ARE TO BE MADE IN THE FIELD**

FOR UNITS EQUIPPED WITH LOW AMBIE4NT CONTROL BELOW 0°F: A head pressure control valve for each refrigeration circuit is provided and is shipped with the Computer Room air Conditioner for a FIELD installation on the air cooled condenser. An appropriate control panel for with fan cycling control is also supplied for field installation on the air cooled condenser.

CHILLED WATER UNITS (CKC)

These units are factory piped with a a two way or three way water regulating valve. These systems are designed for working pressure of 150 psig. Higher pressure- Refer to nameplate.

TECHNICAL DATA

AYAN IV-IN ROW COOLING SYSTEM

UNIT MODEL: CKC-534-IR

COOLING CAPACITY: At 95°F DB, 67.9°F WB; 23% RH - Entering Air Temp.

Total Capacity BTU/HR:	150,100
Sensible Capacity-BTU/HR:	140,700

Leaving Coil 56° FBD;53.5° FWB

CHILLED WATER COIL DATA - Aluminum Fins, 3/8" OD Copper tubing

Face Area-Sq. Ft.	8
Rows/FPI	4/12

CHILLED WATER DATA–At 45°F Entering Water Temp.; 55°F Leaving Water Temp.

GPM	30
Pressure Drop: Ft of Water (coil)	24.6

BACKWARD INCLINED DIRECT DRIVE PLENUM FANS:

Quantity	2
CFM	3,325
External Static Pressure (Inch of Water)	0”

E.C MOTOR

kW/Fan	1.41
Qty.	2

REHEAT-Electric

Capacity-BTU/Hr	20,470
K.W.	6
Stages	1

HUMIDIFIER-Steam Generating

K.W.	1.7
Capacity-Pounds/Hr	5

ELECTRICAL DATA - @ 460V/3Ph/60Hz

Full Load Amps (FLA)	12.5
Min. Circuit Ampacity (MCA)	15.6
Max. Recomm. Fuse Size (MFS)	20A

PIPING DATA- All Connections are Copper O.D.

Condensate Drains	3/4”
Chilled Water Supply	1-1/8”
Chilled Water Return	1-1/8”

PHYSICAL DATA

Length	24.00”
Width	46.38”
Height	78.75”
Unit Weight (Lbs.)	550

INSTALLATION

Prior to placing the unit make sure proper a clearance are available:

Front	36”
Rear	36”

UTILITY CONNECTIONS

Electrical connection access for the unit is located on the left front of the top panel and piping connection could be brought from the rear top panel of the unit. Provide isolation shut off valves for all pipes external to the unit.

SETTING OF THE UNIT

Locate the unit so the desired clearances are provided, paying special attention to floor height for downflow units. Make sure that piping under floor does not interfere with the discharge air of the unit.

Unit must be level:

For proper operation the units must be level.

When installing the unit, allow sufficient space for air flow clearance, wiring and servicing the equipment.

The AYAN IV equipment is designed to be located in a row of server racks between the IT server racks adjacent to the heat load. The front supply grilles provide conditioned air to the adjacent IT equipment on the cold aisle side of the IT equipment. The return air intake is in the hot aisle. It is recommended the AYAN IV equipment be positioned in the server row for optimum air circulation. Care must be taken to avoid any air bypass between cold aisle and hot aisle. Close off any empty server slot and send unit bottom to the floor.

Typically the optimum location is next to the highest heat load in the row of server racks. This will minimize hot spots.

If the AYAN IV equipment is placed at the end of the row of server racks, there must be an air barrier to prevent the conditioned supply air from being drawn back into the hot aisle side bypassing the IT equipment.

AIR FLOW

The return air is drawn through the back of the unit and discharged into the room through the front of the unit.

CONNECTIONS

In connecting the unit, five items must be addressed. They are

1. Structural Support
2. Electrical Supply
3. Condensate Drain Connection

STRUCTURAL SUPPORT

The unit can be installed directly on the floor or on the raised floor without the need for any special support. The floor should be level.

ELECTRICAL SUPPORT

A fused disconnect of a HVAC approved circuit breaker must be field provided and installed per the National Electric Code. There is access to the unit for electrical connection through the unit bottom or the lower portion of the unit back. Be sure unit is properly grounded.

A fused disconnect must be provided for the air cooled condenser for air cooled condenser for air cooled units and dry fluid cooler for the glycol cooled units.

CONDENSATE DRAIN CONNECTION

An internal p-trap is provided on drain pan and connected to the condensate water pump located below the supply air blowers and the pump can be accessed from the front of the unit. The pump will be active when the pump detect water condensation and pump the water condensation out from the condensate line located rear top panel of the unit. Field install must connect the condensate line to building drain system properly according to the building guidelines. See Figure 4 - Front view for location of the condensate water pump.

WATER CONNECTIONS

For water cooled units where water supply shall be either city water or cooling tower. Provide a shut off valve in supply and return line for isolation.

ELECTRICAL CONNECTIONS: The power supply to the air cooled condenser must be brought through a fused disconnect of a proper handle the electrical requirement of the condenser. Control panel is factory supple and is packaged separately. This panel is to be field mounted.

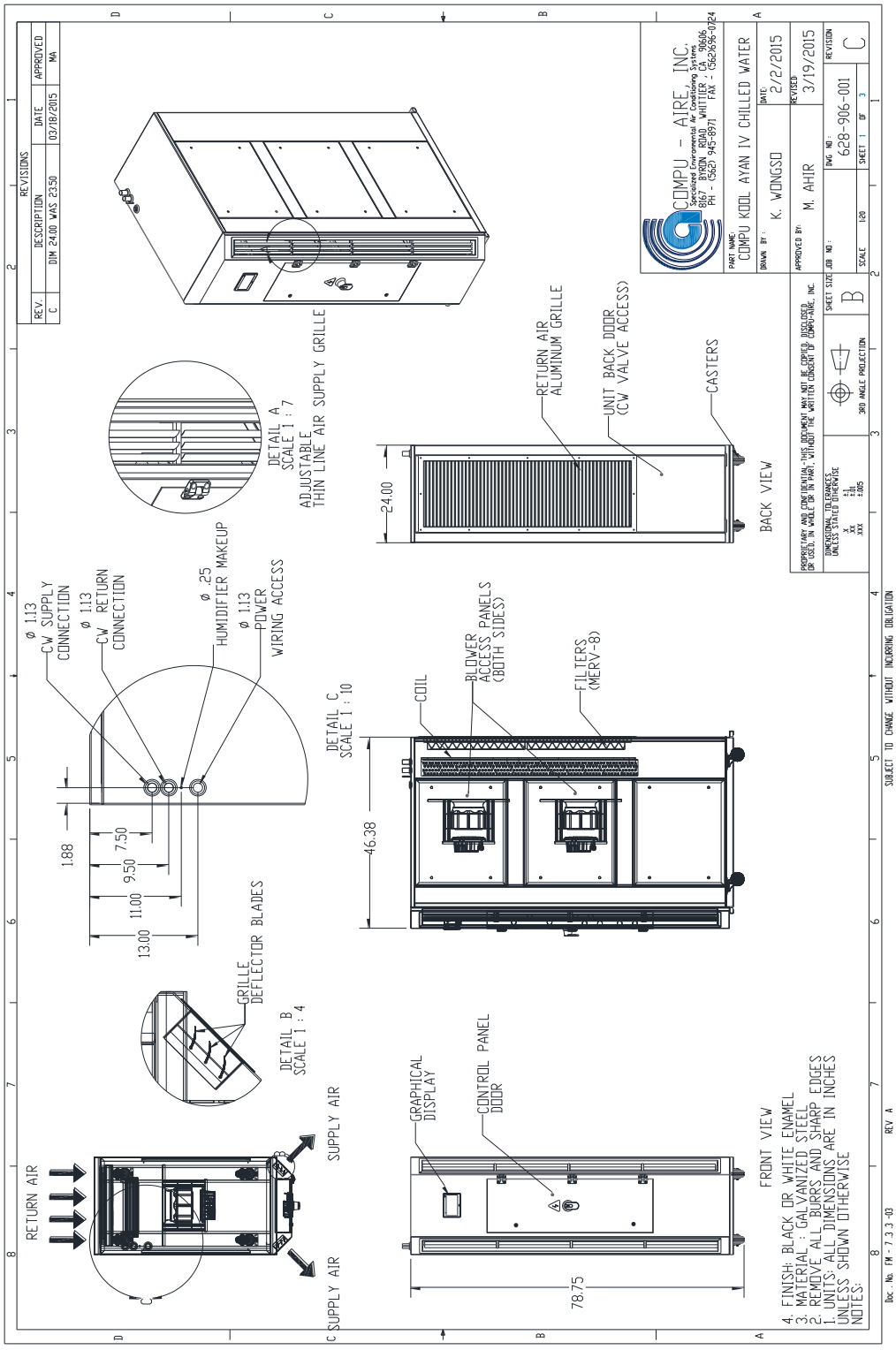

FIGURE 1 SYSTEM LAYOUT

Wiring Diagram

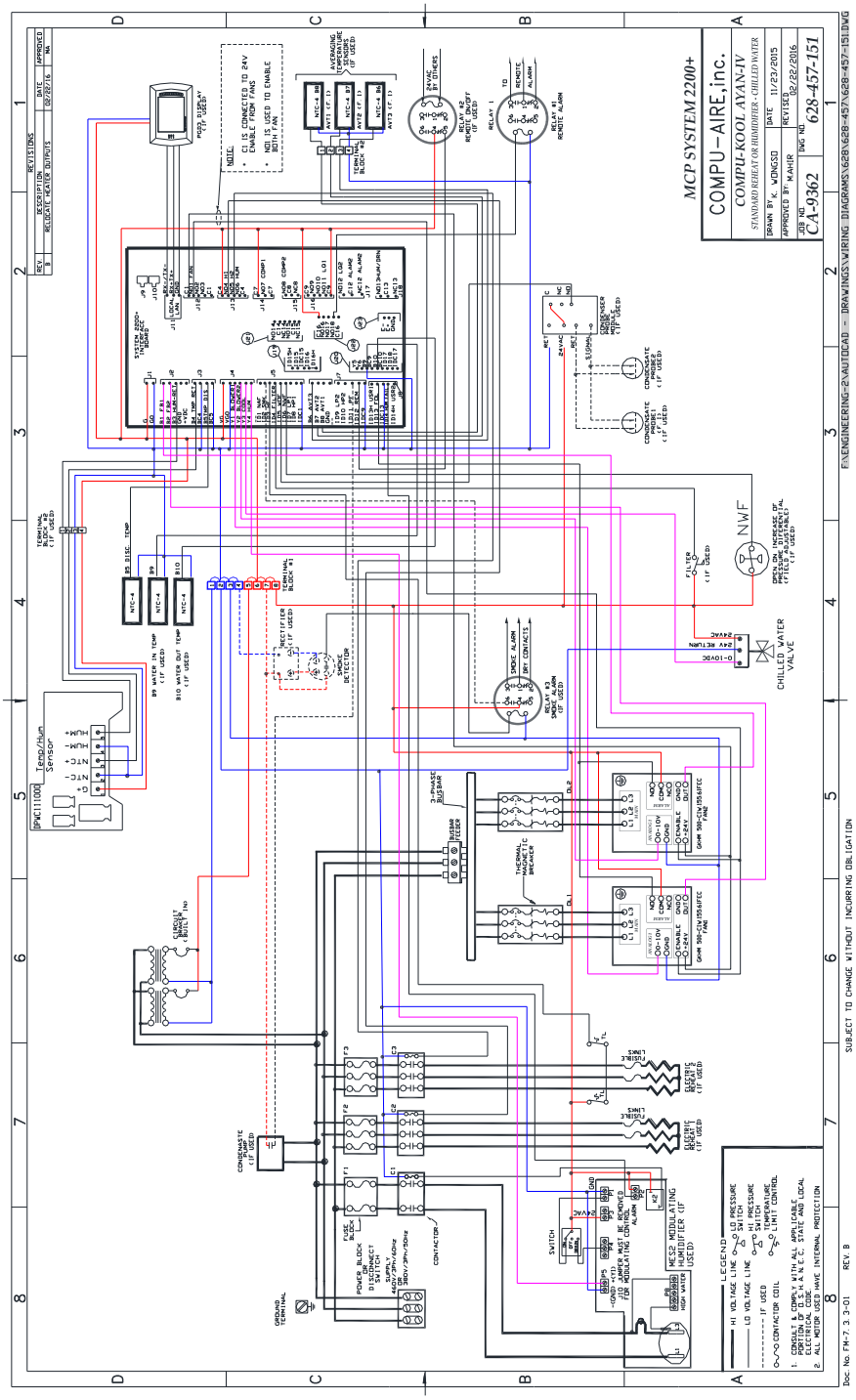

FIGURE 2 GENERAL WIRING DIAGRAM

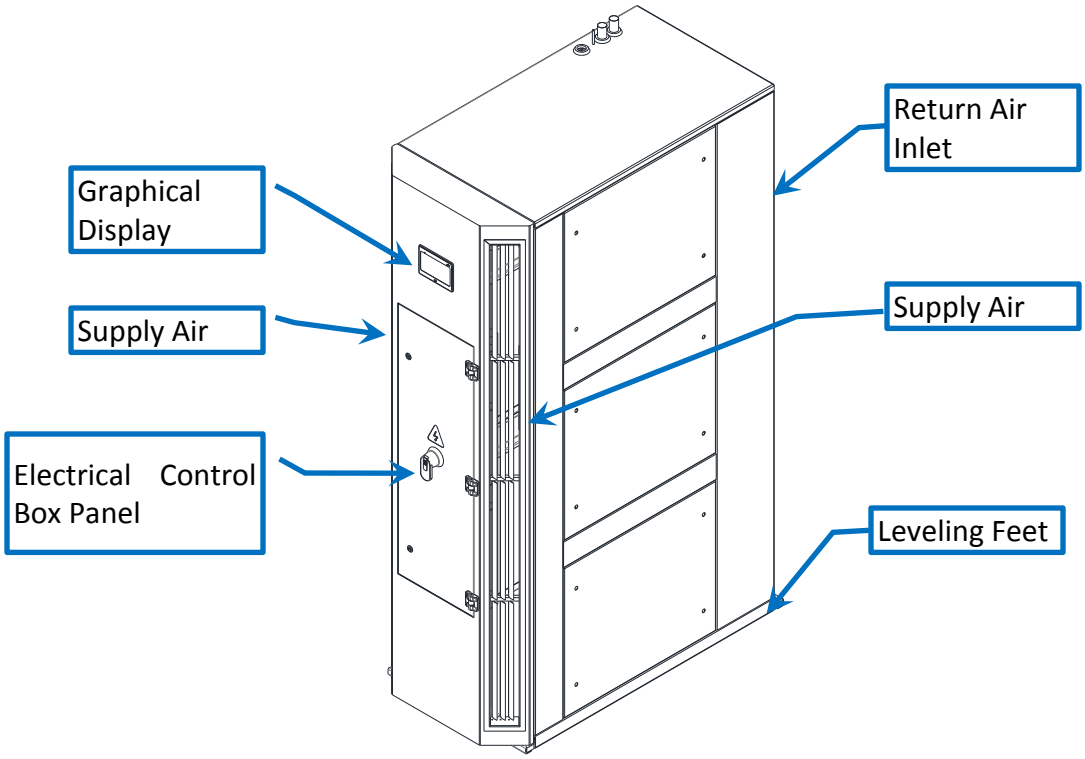

FIGURE 3 - AYAN IV INROW COOLING

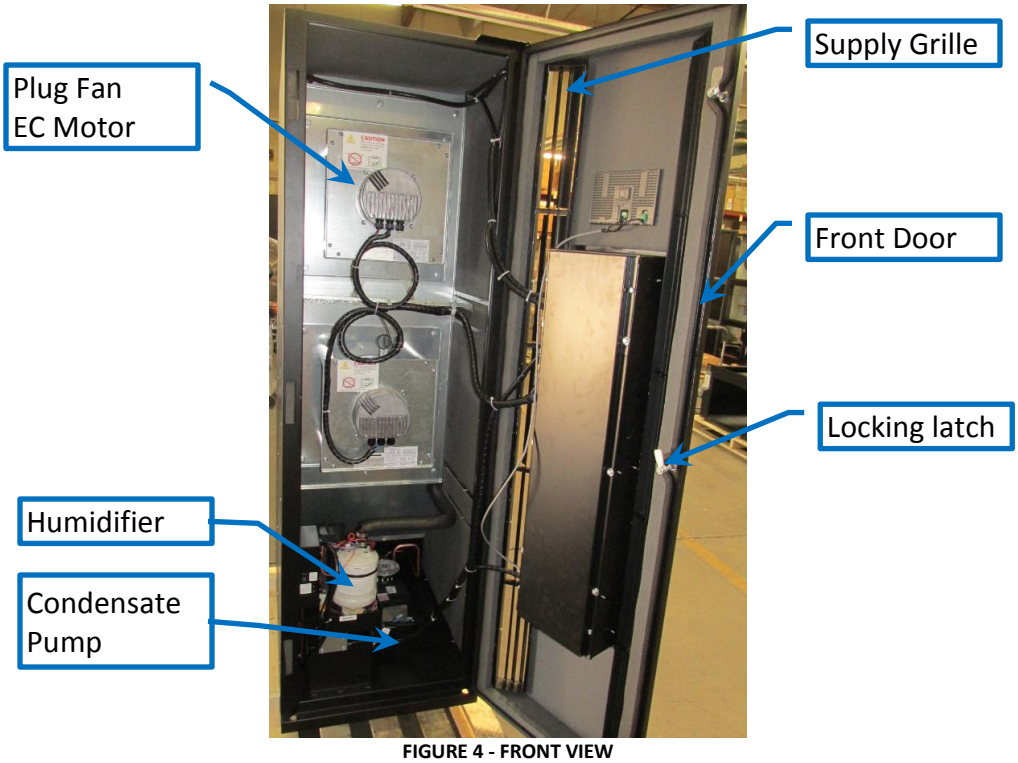

FIGURE 4 - FRONT VIEW

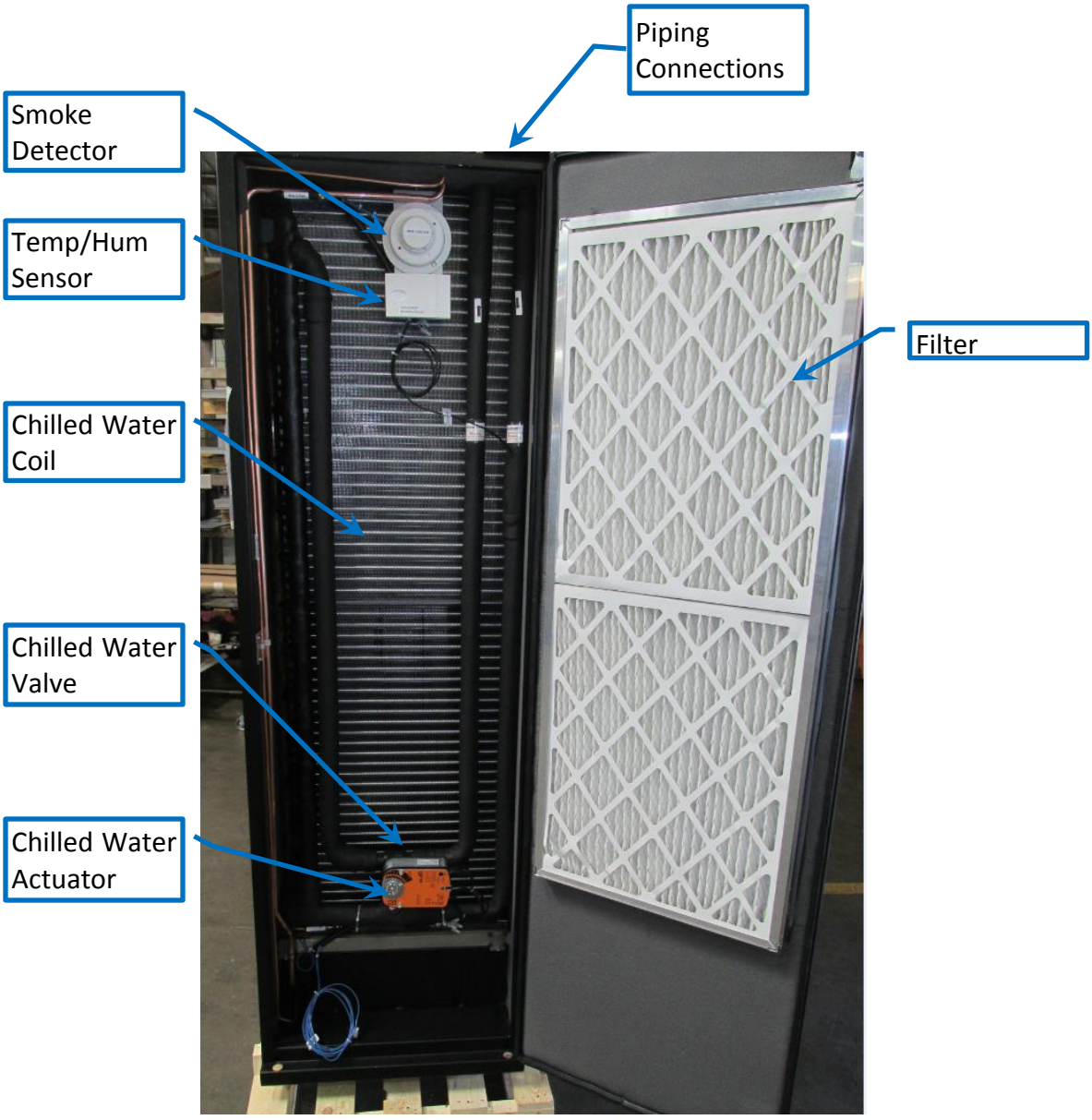

FIGURE 5 - BACK VIEW

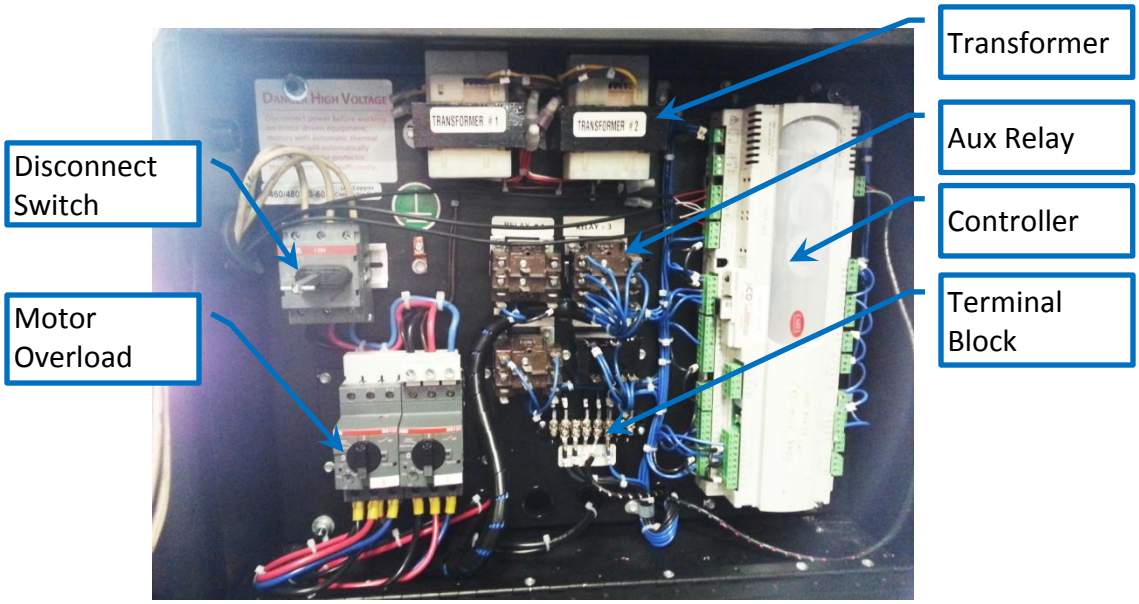

FIGURE 6 - CONTROL PANEL

START-UP AND TEST PROCEDURE

A. With all power to unit off- Check that ALL WIRING IS CORRECT.

Check that properly sized fuses are installed in the disconnect switch. Correct fuse size and minimum circuit ampacity are listed on the unit nameplate. Now, check the wiring connections in the Main Control Panel to see if they are tight. It is best that this be checked prior to operating the machine. After checking, close the Main Control Panel cover and proceed as follows:

Microprocessor Control Panel – With the system switch in the “OFF” position, apply power to the unit. The “Power ON” light should illuminate.

B. Check for Correct Phasing

The equipment should now be checked for correct phasing required to make the blower motor turn in the correct directions. For this test it is necessary to open the right side doors of the unit to observe the blower and blower motor. Now, momentarily switch the system switch to the “ON” position and then back to “OFF”. The blower motor with have started and it is therefore possible to determine rotation. On Compu-Aire units, the blower should be rotating in a CLOCKWISE direction. Heaters and humidifiers are not affected by phasing.

GENERAL MAINTENANCE

General maintenance must be performed in regular intervals to provide continued operation of the entire unit. The maintenance intervals must be determined site specifically. Use the maintenance checklist at the end of this manual when performing maintenance. Typically, air filters should be replaced no less than two times per year.

The filters should be checked and changed periodically. When they become dirty, an alarm is activated the filter pressure switch. If the filters are dirty, they must be changed for efficient operation of your system. To check the alarm indicator, cover approximately 75% of the return air opening; the alarm should energize. If the alarm energizes prematurely or does not energize when it should, adjust the filter switch. All doors to machine should remain closed before determining whether an adjustment is necessary. Spare filters should be kept in stock. Filters should be checked monthly and replaced if necessary.

The maintenance intervals must be determined site specifically. Use the maintenance checklist provided if available when performing maintenance. In order to ensure that the system runs trouble free for many years, a follow-up maintenance program (consisting of a minimum of two inspections per year) should be set up. A qualified service mechanic should carry out this semi-annual inspection. The main power supply **must be disconnected and locked off** to avoid accidental startup of the equipment.

(1) Check electrical components and tighten any loose connections.
(2) Check all wiring and electrical insulators.
(3) Check contactors to ensure proper operation and contact point for wear.
(4) Check that fan motors (if applicable) are operational, ensure fan blades are tight and all mounting bolts are tight.
(5) Ensure that the condenser surface (if applicable) is cleaned and free of dirt and debris.
(6) Check the operation of the control system. Make certain that all of the safety controls are operational and functioning properly.
(7) Check chilled water valve system. Make sure that all mechanical joints and flare nuts are tight.

Service Parts Availability

Genuine replacement service parts should be used whenever possible. Parts may be obtained by contacting your local sales representative or authorized distributor. Contact us 562.945.8971

TROUBLESHOOTING GUIDE

Complaint	Problem	Symptom	Action
1.	Chilled water valve is not opening because of loose or broken wiring.	Display shows chilled water cooling is on or economy cooling is on but, the valve is closed.	Test for 24VAC at valve motor. Check continuity between chilled water pins connection of the microprocessor controller and valve motor. If no voltage, replace microprocessor setting. (refer to supplied controller manual-by other)
2. System does not humidify or does not do so sufficiently.	Control parameters are not set correctly or set as expected.	System seems to function okay otherwise.	Refer to controller setting and check that all control parameters are set correctly.
	Loose or broken wiring in low voltage circuits or bad microprocessor board.	Display shows humidification operating but, the humidifier is not on.	Test for 24VAC at pin connetion on controller. If no voltage, check wiring back to system.
3. System is on but, no-thing is operating. The blower is off.	No air flow, fire stat, water on floor or smoke detector alarm is activated.	The display shows one or more of these alarms and the Alarm LED is on.	The system is automatic-ally shut down if any of these conditions occur. Determine what the cause is and remedy. Then, press the Reset button on the controller.
4. System does not run.	No 24VAC supply voltage.	Power LED is not on.	Check circuit breaker in system 24VAC circuit and reset if necessary. Check System cutout switch. Test for 24VAC at pins 1 and 2 of controller.

TABLE 1 TROUBLESHOOTING GUIDE

REFERENCE

COMPU-AIRE INC.
Specialized Environmental Air Conditioning Systems
8167 Byron Rd., Whittier, CA 90606
PH (562) 945-8971 FAX (562) 696-0724

STANDARD ONE YEAR WARRANTY

Job Name: _____ Job No. _____ Date: _____

We warranty this Compu-Aire, Inc. computer room unit to be free from defects in material and workmanship; our obligation being limited to repairing or replacing at our factory any part (except as noted below) within one year from the date of shipment to the original purchaser. Parts to be returned to us PREPAID. Proof of start-up date must be submitted to the factory.

This warranty is effective only if the unit has been installed in accordance with our instructions and connected to proper and adequate electric, water and drain services, correctly dehydrated and placed into operation by a competent service representative.

Fan motor compressor warranty is covered by original manufacturer's warranty and any repair or replacement should be made by the local authorized service facility as listed the telephone book.

Maintenance and service such as replacing filters, humidifier cylinder, infra-red lamps, float valve assemblies, belts, cleaning, lubrication, calibration and adjusting are NOT INCLUDED in this warranty.

Replacement or repair parts shall be shipped from the factory pre-paid and invoiced for the full amount. Upon receipt of warranteed parts within 30 days with prepayment of the component and which our inspection discloses the parts are defective, and show no signs of misuse, alterations, or abuse, full credit will be issued.

Compu-Aire, Inc. does not assume any responsibility for the labor expense for changing defective parts or replacement of any refrigerant or other cooling medium such as glycol etc.

All parts and goods are thoroughly inspected and packed to meet the requirements of railroad freight classifications bureaus, and under standard shippers risk, when they leave our factory. SHOULD GOODS ARRIVE DAMAGED, call the agents attention to damage, and have same noted on freight bill. For concealed damage, demand immediate inspection from agent of the shipping company and insist on a notation being made on freight bill.

Purchaser-User	Model Number	Serial Number
		Serial Number
		Serial Number
		Serial Number

FIELD TEST PLANS

THIS FORM MUST BE COMPLETED FOR EACH UNIT AND SENT BACK TO COMPU-AIRE.

TEST DATE START: _____TEST DATE COMPLETE_____

COMPANY PERFORMING TESTING:_____
ADDRESS: _____

PHONE NUMBER: _____ FAX NO: _____
EMAIL: _____

TECHNICIAN'S NAME: _____

TECHNICIAN PHONE NO: _____

PROJECT NAME: _____

PROJECT ADDRESS: _____

CUSTOMER CONTACT: _____

UNIT MODEL: _____

UNIT SERIAL NO: _____

VOLTAGE: _____

UNIT TYPE:
☐ CHILLED WATER AIR HANDLER

UNIT EQUIPPED WITH:
TYPE OF HUMIDIFIER: _____

HUMIDIFIER SN#: _____CYLINDER #_____KW: _____

TYPE OF HEAT: _____KW: _____

TYPE OF CHILLED WATER VONTROL VALVE: _____

CONDENSATE PUMP SN#: _____
FIELD CHECK
_____UNIT ALIGNMENT AND SECURELY MOUNTED
_____DOOR ALIGNMENT
_____NUTS FOR TIGHTNESS

_____WIRES FOR CONNECTION TIGHTNESS
_____UNIT GROUND CONNECTED
_____HIGH AND LOW VOLTAGE WIRING CONDITION FOR ANY DAMAGE
_____EC FAN MOTOR ASSEMBLY
_____SMOKE DETECTOR
_____REMOTE SENSORS
_____CONDENSATE PUMP MOUNT
_____PIPING AND VALVE SUPPORTS AND AVOID ANY RUBBING PIPES
_____INSULATION (CHECK ALL PIPING, C.W. VALVES)
_____CONDENSATE DRAIN TRAP
_____ISOLATION VALVES INSTALLED
_____STRAINER INSTALLED
_____SUPPLY AND RETURN AIR CLERANCE AND AIR DISTRIBUTION
_____ HUMIDIFIER WATER LINES FLUSHED
_____HUMIDIFIER CYLINDER IS SECURED
_____CHILLED WATER VALVES IS SECURED

SET CONTROLS to test operation:
_____TEMPERATURE SET POINT
_____HUMIDISTAT SETPOINT
_____HI LOW TEMPERATURE AND HUMIDITY SET POINTS
(NOTE ANY CHANGES MADE TO THE CONTROLLER SETTINGS)
UNIT POWER SUPPLY: Test Voltage
LINE VOLTAGE: L1-L2: _____L2-L3: _____ L1-L3:_____
CONTROL VOLTAGE AT CONTROLLER: _____
evap fan #1
MOTOR HP/KW: _____ F.L.A: _____ VOLTAGE: _____
MODEL # _____
AMP DRAW: L1 _____ L2 _____ L3 _____
CONTROL INPUT SIGNAL MIN/MAX: _____ VDC

evap fan #2
MOTOR HP/KW: _____ F.L.A: _____ VOLTAGE: _____
MODEL # _____
AMP DRAW: L1 _____ L2 _____ L3 _____
CONTROL INPUT SIGNAL MIN/MAX: _____ VDC
evap fan #3
MOTOR HP/KW: _____ F.L.A: _____ VOLTAGE: _____
MODEL # _____
AMP DRAW: L1 _____ L2 _____ L3 _____
CONTROL INPUT SIGNAL MIN/MAX: _____ VDC
evap fan #4
MOTOR HP/KW: _____ F.L.A: _____ VOLTAGE: _____
MODEL # _____

AMP DRAW: L1 _____ L2 _____ L3 _____
CONTROL INPUT SIGNAL MIN/MAX: _____ VDC
evap fan #5
MOTOR HP/KW: _____ F.L.A: _____ VOLTAGE: _____
MODEL # _____
AMP DRAW: L1 _____ L2 _____ L3 _____
CONTROL INPUT SIGNAL MIN/MAX: _____ VDC

evap fan #6
MOTOR HP/KW: _____ F.L.A: _____ VOLTAGE: _____
MODEL # _____
AMP DRAW: L1 _____ L2 _____ L3 _____
CONTROL INPUT SIGNAL MIN/MAX: _____ VDC
REHEAT
TYPE: ELECTRIC: ___ NO. OF STAGES: _____
HEATER AMP DRAW:
STAGE 1: L1:_____ L2: _____ L3: _____
STAGE 2: L1:_____ L2: _____ L3: _____
Humidifier
AMP DRAW: L1: ____ L2: _____ L3: _____
VERIFY FILL VALVE OPERATION: _____
DRAIN VALVE OPERATION: _____
CONDITION in 100% cooling TEST mode
SUPPLY AIR TEMPERATURE: _____ °F RETURN AIR TEMPERATURE: _____
RETURN
RETURN AIR HUMIDITY: _____%
C.W. SUPPLY TEMPERATURE: _____ ° F C.W. RETURN TEMPERATURE: _____
° F
CHILLED WATER
WATER IN TEMP: _____ °F WATER OUT TEMP: _____ °F
CHILLED WATER VALVE PRT NUMBER:
_____
CHILLED WATER VALVE OPERATION: _____ MIN/MAX: _____VDC RANGE

Automatic Controls
CONTROLLER MODEL:_____

SOFTWARE REVISION:_____REVISION DATE: _____

_____CHECK ALL ALARMS
_____CALIBRATE SENSORS AS NEEDED
_____VERIFY POINTS LIST WITH CONTROLS CONTRACTOR
_____VERIFY OPERATION OF LONWORKS COMMUNICATION CARD WITH BMS
_____CHECK ALL ANALOG OUT PUTS

_____CHECK ALL DIGITAL OUT PUTS
Alarm set points
TEMPERATURE: HIGH: ____ LOW: _____
HUMIDITY: HIGH: _____ LOW: _____
(NOTE ANY CHANGES MADE TO THE CONTROLLER SETTINGS)
Condensate Pump
WET TEST: _____
TECHNICIAN COMMENTS

NOTE ALL READINGS AND ANY ADJUSTMENT MADE AT THE JOB SITE:

_____

_____

_____

ANY VISUAL DAMAGE:

Technical Support/ Service

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www.compu-aire.com

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COMPU-AIRE INC.
Specialized Environmental Air Conditioning Systems

ISO 9001:2000 CERTIFIED

Intertek