



Air Conditioning

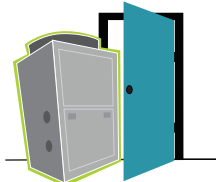


MAINTENANCE & OPERATION MANUAL

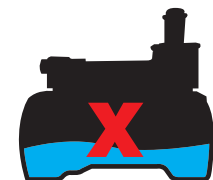
We are leaders in the creation of innovative air conditioning solutions using state of the art technology and world class product design



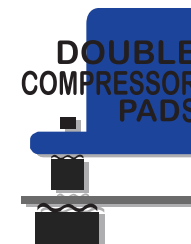
SMALL FOOTPRINT



BALANCING VALVE



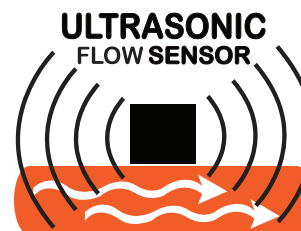
ISOLATION VALVE



DOUBLE COMPRESSOR PADS



MICROCHANNEL



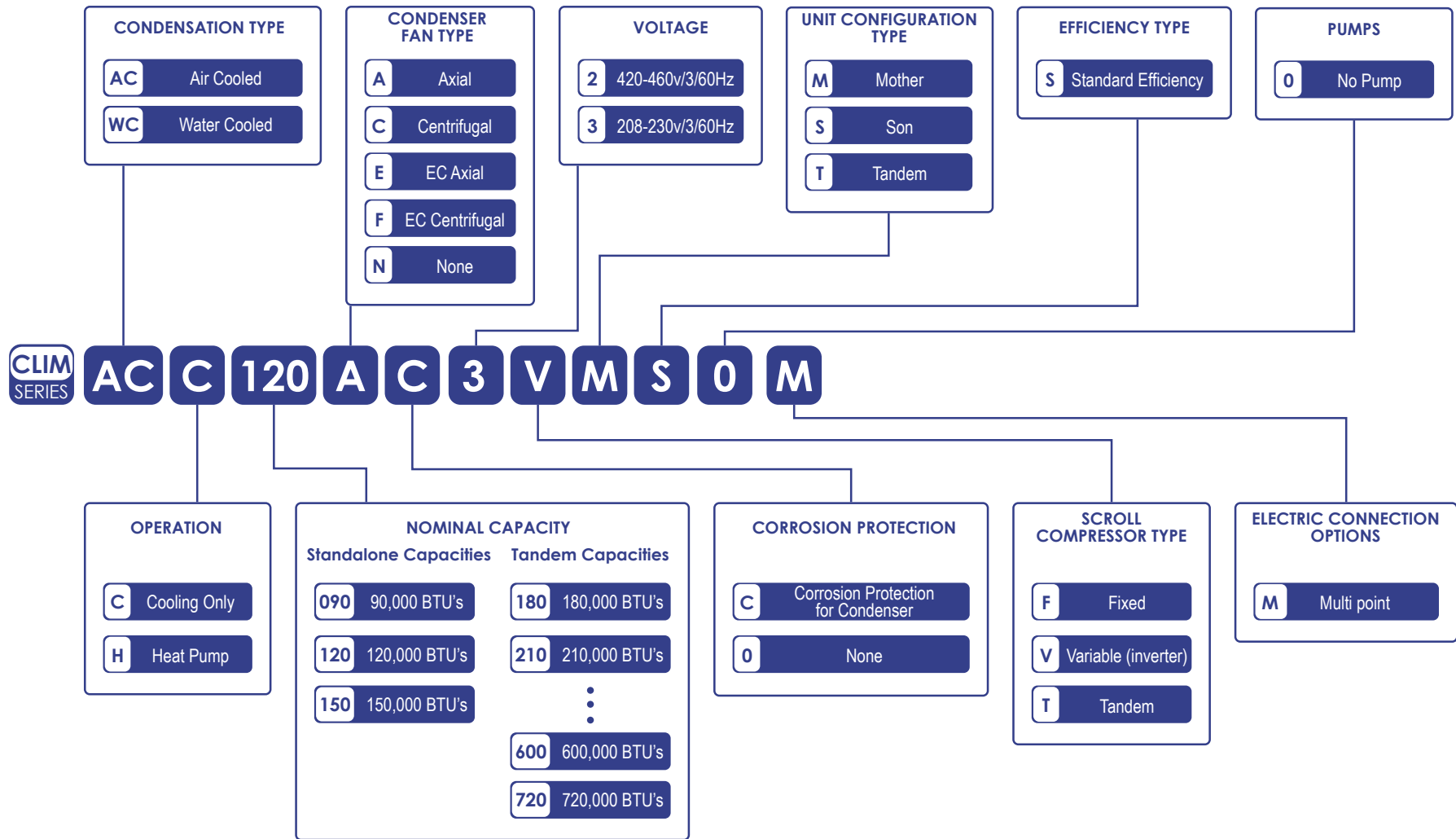
ULTRASONIC FLOW SENSOR



EC FANS

CLIMA FLEX | TECHNOLOGIES

This technology may or may not be included in the unit depending on the model



WARNING - CAUTION - NOTE

IMPORTANT SAFETY INSTRUCTIONS

This manual contains important safety instructions that should be followed during the installation and maintenance of the unit. Read this manual thoroughly before attempting to install or operate this unit.

Only qualified personnel should service this equipment. Adhere to all warnings, cautions, operating and safety instructions on the unit placards and in this manual. Follow all operating and user instructions during and after installation.

Installer should pay particular attention to the words: **NOTE**, **CAUTION** and **WARNING**. Notes are intended to clarify or make the installation easier. Cautions are given to prevent equipment damage. Warnings are given to alert installer that personal injury and/or equipment damage may result if installation procedure is not handled properly.



Improper installation may create a condition where the operation of the product could cause personal injury or property damage. Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for assistance or additional information, consult a qualified installer or service agency.

Electrical shock hazard. Disconnect voltage at main panel or power source before opening any cover. Failure to comply may result in injury or death.

To minimize the hazard of electrical shock and personal injury, this component must be effectively grounded. Refer to installation guidelines for further information.



This product must be installed in strict compliance with the enclosed installation instructions and any applicable local, state, and national codes including but not limited to, building, electrical and mechanical codes.

Risk of sharp edges, splinters, and exposed fasteners. Can cause injury.

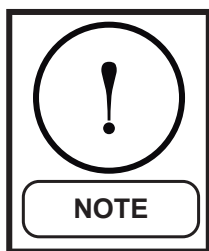
Only properly trained and qualified personnel wearing appropriate safety headgear, gloves, shoes and glasses should attempt to move the unit, lift it, remove packaging or prepare the unit for installation.

Risk of contact with hot surfaces. Can cause injury.

The compressors, fan motors, refrigerant discharge lines and reheats are extremely hot during unit operation. Allow sufficient time for them to cool before working within the unit cabinet.

Periodically inspect all valves, fittings, and piping for corrosion, rust, leaks, or damage.

This unit uses a microprocessor-based electronic control system. Do not use jumpers or other tools to short out components, or to bypass or otherwise depart from recommended procedures. Any short-ground of the control board or accompanying wiring may destroy the electronic modules or electrical components.



Risk of clogged or leaking drain lines. Can cause equipment and building damage. This unit requires a water drain connection. Drain lines must be inspected regularly and maintenance must be performed to ensure that drain water runs freely through the drain system and that lines are clear and free of obstructions and in good condition with no visible sign of damage or leaks.

This unit may also require an external water supply to operate.

Improper installation, application and service practices can result in water leakage from the unit. Water leakage can result in severe property damage and loss of critical equipment. Do not locate unit directly above any equipment that could sustain water damage.

• Efficiency

Our units are designed to meet the needs of any project. Our featured intelligent process controllers and smart temperature sensors provide maximum performance while saving energy.

The system automatically modifies the operation mode to maintain optimal conditions, making it very easy to operate.

All temperature sensors are calibrated and set at the factory before shipment. Start up has to be performed by a qualified technician, during the initial startup steps the unit will be set to local conditions and all points of operation will be reviewed.

Once the unit is set, operation is a matter of pressing the start and stop button and making sure that the unit operates properly, after this the unit will operate automatically, starting itself according to the demand of the cooling system and local conditions.

• Flexibility

The units have smart processors and sensors to automatically control the temperature at optimum operating conditions.

The units were designed to mate with each other and be combined to meet different load variations (tandem installation). You can combine up to 8 modules; these combinations may be done with chillers of different capacities ranging from 3 to 200 tons. Capacity varies depending on the number and type of units.

• Reliability

All structures are made of galvanized steel sheet, coated with electrostatic baked paint to ensure long durability and no corrosion in any weather, such as prolonged direct sunlight, rain and wind.

All units are designed to fit a reduced installation space, eliminating thus large installation areas. We only use high quality components to ensure durability and reliability even under harsh environmental conditions.

NOTE: For applications in tropical climates our units are coated inside and outside with Corrosion Protection.

Our products have efficiency certifications from AHRI and electrical certifications from ETL, we also comply with all industry safety standards. We are members of the American Society of Air Conditioning, Refrigeration and Heating Engineers (ASHRAE). To support our commitment to customers and our stakeholders our units have a 1 year mayor warranty after start up, .

Our units use R410A refrigerant, which is harmless to the ozone layer and is not toxic or flammable, even in case of leakage.

Finally, the heat exchanger efficiency and modular design allow for an easy and quick installation.

• Design

Research conducted by the Engineering Department have resulted in units with a high design efficiency and optimum performance. The selection of prime components and our quality and control system ensures performance and reliability. All main components are rigorously tested and qualified before being installed. Each unit design has gone through long hours of rigorous testing to ensure reliability, durability and quality of the entire system.

All external paint has been tested in a saline chamber and is rated at 1,500 hours proof. Compressors and heat exchangers ensure high equipment efficiency capacity. The water pump is specially designed to work properly and with minimal vibration and noise.

All units have a compact and sturdy structure while maintaining a slim profile.

• Communication

The units can be controlled independently as a single unit (individual mode), or they can be connected to a central control unit ("Tandem Mode"). Operation and user input is done via a color 7" touch screen.

Our units can handle different communication protocols; such as Modbus and Bacnet, the most commonly used protocols in the HVAC industry.

Our units keep track of all the programming variables in real time, as well as monitoring performance and specific alarms in the refrigeration cycle, the electrical system as well as external factors such as fire and flood detection (optional sensors).

The control and monitoring system ensures the proper operation of the unit by monitoring in real time the health of all major components (high and low refrigerant pressure, compressors and fan motors health, etc).

In case of a malfunction the event will be recorded for later analysis, facilitating the location of the possible failure and its solution.

• Installation

The units have been designed for a field-friendly installation. Screw type connections provide easy installation of the water pipes, said connections are located on both sides of the unit, so that the pipes can be connected on either side of the equipment.

The individual assembly of the units reduces installation costs on site, the units have a rigid base which bears the weight of the unit and allows an easy installation.

• Maintenance

The simplicity in the design of each unit allows maximum ease in maintenance. All major components are available to maintenance personnel by opening the service panel. If an emergency stop occurs, the control section will indicate the detailed cause of the failure, helping to accelerate and facilitate the solution process.

• Factory Testing

Each unit is pressure and vacuum tested, then charged with the refrigerant required for proper operation based on the client installation conditions.

The units are then evaluated at full load operation with water flow, thermal load and line voltage set to the actual conditions in which the equipment will operate. Finally the units are performance tested at application temperatures ranging from -10 °C to 45+ °C.

NOTE: The warranty policy requires that the start up be made by qualified and authorized personnel.

Units are built with control and design in mind, assembled with technically specialized control software. Some of our features are in house production of all piping and wiring, scroll type compressors, new generation evaporators, air cooled condensers, optional hydraulic components, and several safety and security protections. Our units are ecofriendly and operate with R-410A refrigerant.

• Compressor

Our two-stage, fixed scroll, digital and variable compressors have better liquid handling properties. Because of its axial and radial shape, it allows parts of the scroll to be separated in the presence of coolant, thus offering protection against liquid damage.

They are more efficient over the full operating range, operating at sound levels and lower vibration than traditional compressors, it has 70% fewer moving parts, startability under any load on the system, without removing components, easy service and maintenance due to its compact size and lightweight and simple design, built to achieve optimum performance with current refrigerants without chlorine, without complex internal suction valves and discharge for quieter operation and increased reliability.

• Evaporator

The plate heat exchanger is made of stainless steel plates welded together closely to ensure high efficiency heat exchange. The heat exchanger is insulated with a flexible elastomer of a minimum thickness of 1/2" to provide optimal thermal insulation.

The microchannel technology allows to optimize the use of refrigerant, both in the condenser and throughout the cooling cycle. This is a series of flat tubes (microchannels), through which the refrigerant circulates. Heat transfer is maximized by these extremely thin tubes, optimizing the system, providing significant savings in the use of refrigerant gas.

• Thermostatic Expansion Valve

The Thermostatic Expansion Valve (TEV) keeps the evaporator stocked with sufficient refrigerant to meet load conditions. It has no way to turn on or off the compressor, but keeps the superheated refrigerant itself in the suction line of the compressor. The thermostatic expansion valve installed in each circuit has been selected for a range of specific operation conditions.

• Filter-Drier

The dehydrator filter is designed to keep the circuit clean and remove residual moisture from the refrigerant circuit and avoid affecting the operation of the unit by acidification of the oil, which causes slow disintegration of the varnish that protects the motor windings in the compressor.

• Fan

To carry out air injection the units have axial and centrifugal type fans, which are directly driven by single-phase and/or three-phase motors. The fans are weatherproof to ensure continuous operation.

• Expansion Tank

Used in the system to handle the volume variations of the liquid contained in the pipe system due to temperature changes.

• Balancing Valve

This balancing valve is placed in the unit in order to control and maintain a constant water flow in the circuit, with the special feature that the flow can be adjusted anytime as needed.

• Temperature Sensor

Through digital signals generated by these devices the temperature is measured accurately and in real time.

COMPONENTS

• Refrigeration controls

The units are equipped with solenoid valves, expansion valves, dehydrator, and service valves.

• Electrical components

All units are equipped with a control panel, security anti-theft devices, internal and external overheating protection, compressor drive protection, flow protection, freezing protection and electrical failure protection. The control panel has LED operation indicating lights. Depending on the model some other indicators may be installed.

HYDRAULIC COMPONENTS (OPTIONAL)

• Water pump

The drive in the water pump is TEFC (Totally Enclosed Fan Cooled) and has anti-corrosive coating on the housing.

CONTROL

The control unit allows the connection of the unit to the INTERNET, and allows the user to visualize all the unit's operating information, such as variable graphics, tendencies cycle time, diagnosis of components, alarms, etc. Access to this information renders a more efficient operation and system control.

CONNECTIVITY

The connectivity via internet enables our units to operate remotely, to check the status of their maintenance cycle and remedy any situation quickly and efficiently.

VRW

This units are pioneers in the VRW technology. The most important advantages are no loss of performance tonnes over distance, uses water as heat medium, requires no special installation, far better performance at a lower cost.

CORROSION PROTECTION (OPTIONAL)

The inorganic film on the surface is ultra thin and is formed by an inert ceramic glass layer that is obtained at ambient temperatures. This innovative technology provides:

- UV resistance
- A crystalline finished, non-yellowing
- Positively charged coating to repel H₂O
- Magnificent luster and depth of image retention
- Outstanding resistance to solvents and chemicals
- Exceptional abrasion resistance

• Energy Efficient

With Corrosion Protection you save energy between 9% to 15%. Its sealant layer of only 3-5 microns allows heat transfer be more efficient.

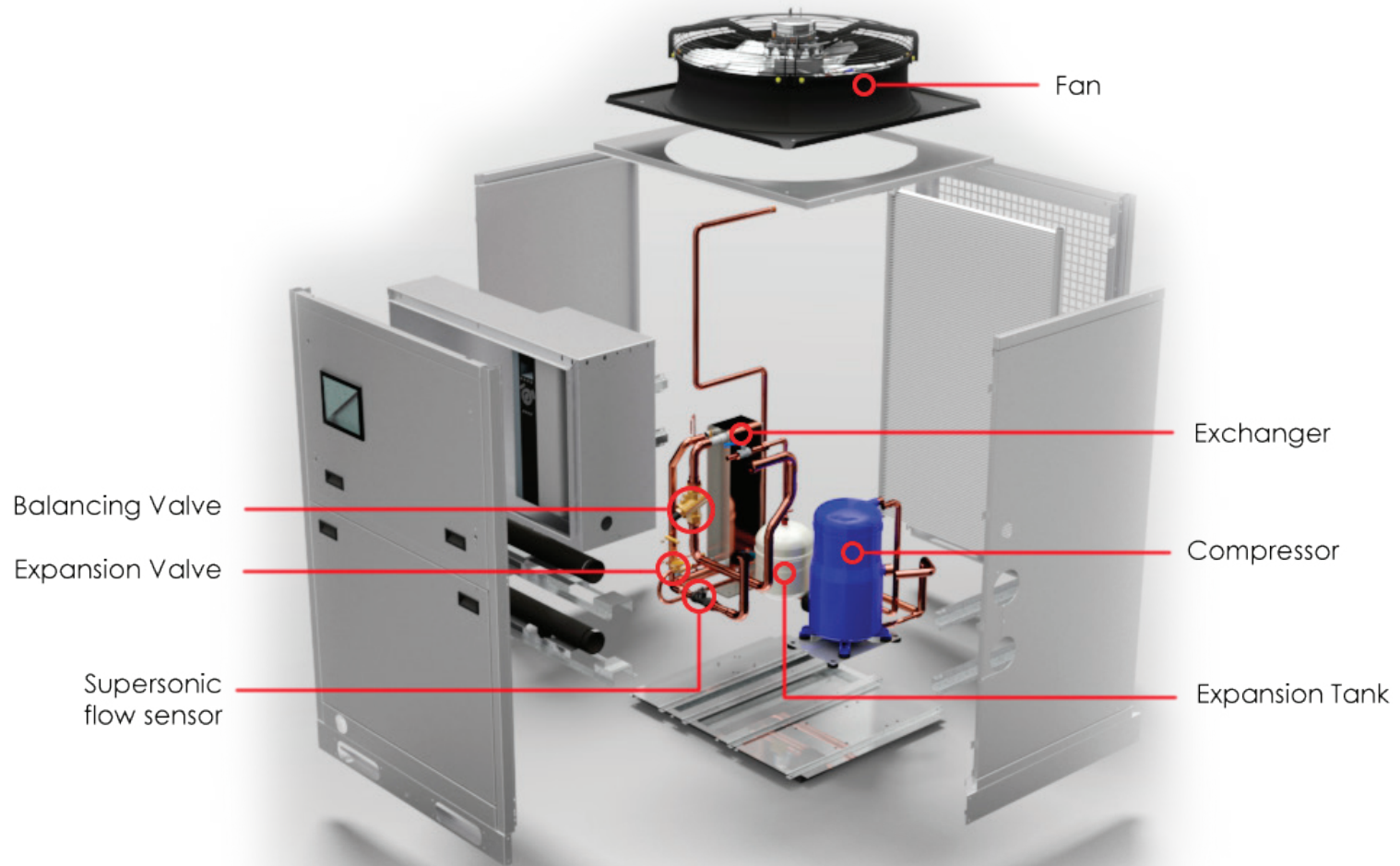
• Extends the life of the equipment

Corrosion Protection extends the life of your air conditioner units, refrigerators or cooling towers, because it protects up to for 5 years, preserving its appearance and function.

Corrosion Protection is applied to cabinets, capacitors, grids and coils, achieving great benefits and durability that can not be obtained with conventional protections.



MAIN COMPONENTS OF THE EQUIPMENT



MAINTENANCE

Servicing or maintenance of these unit must be carried out by experienced personnel with specific training in refrigeration. Repeated check the safety devices and continuous cycling of control components must be analyzed and corrected before being reset.

The simple design of the refrigeration circuit totally eliminates potential problems during normal unit operation. No maintenance work is needed on the refrigeration circuit as long as the unit is operating normally.

Ease of maintenance has been taken into consideration during the design stage such that the unit is easily accessible for servicing and maintenance. By accessing from the front panel of the unit, servicing and maintenance operation can be done easily.

The electrical components are especially easy to access since it is located in the terminal box on top of the front panel.

Under normal circumstances, this chiller requires only a check and cleaning of air intake through the coil surface only. These can be done monthly or quarterly depending on the surrounding environment where the units are installed.

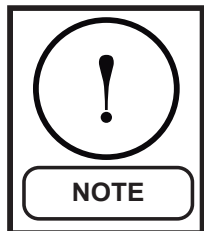
When the surrounding environment is very oily or dusty, then the coils must be regularly cleaned by a qualified air conditioner service technician to ensure sufficient cooling capacity and efficient unit operation. The normal life span might be shortened if no proper service is provided.

For consistent performance and durability, always conduct proper and regular maintenance to the unit.

For prolonged periods of operation time, the heat exchanger will become dirty impairing its effectiveness and reducing the performance of the units. Consult your local dealer about the cleaning of the heat exchanger.

No major maintenance or servicing needed for the internal water circuit in the unit except the water pump failure. It is advised that regular check on the stainer to be conducted and change the water stainer if it is dirty or choked.

Always check the water level in the system, in order to protect the moving components in the hydraulic kit from over heating and excessive wear and tear.



The manufacturer will not be responsible for the malfunction of any unit if the main cause is the lack of maintenance or operating conditions which do not correspond to those recommended in this manual.

GENERAL

In the initial operation and periodically during startup, you must perform some routine maintenance checks. These include, verification of liquid lines, measurements of the condensing and suction pressure, and verify if the unit has normal overheating or undercooling. A maintenance program is recommended at the end of this section.

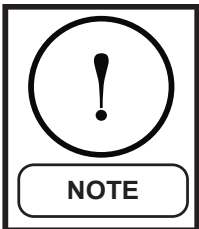
COMPRESSOR MAINTENANCE

FALTA INFORMACIÓN REAL

ELECTRICAL TERMINALS

Electrical connections should be inspected and tightened as necessary. The heat and vibration can cause connections to loosen and fall off causing a voltage or arcing.

- To service the electrical components:
- Disconnect the main power supply before repairing or replacing components or cables.
- Tighten all cable connections connected to the terminal block and components.
- Inspect connectors, cables and/or components with burn marks, worn cables, etc. If you find any connector, connection or component with any of the above conditions, it must be repaired or replaced.
- The tension in the equipment should be checked with meter periodically to ensure adequate power supply.



Each unit is shipped with a full wiring. See wiring diagrams when making connections. The electrical connections to be made in the place of installation are: power supply voltage line to the input power and control wiring for the remote control.

Do not place the control wiring with high voltage cable. High voltage can interfere with control signals and/or cause low or irregular performance.



WARNING

Risk of electric shock, can cause injury and death. Disconnect all electrical power sources when working inside the unit. Potentially lethal voltages exist within this equipment during operation. Observe all cautions and warnings in this manual. Only qualified personnel should maintain this equipment.

CONDENSER

Maintenance consists primarily of routine removal of dirt and debris from the outer surface of the fins and repair or damage fins.

Clean fins with a vacuum cleaner, cold water, compressed air or a soft (non-metallic) brush. When it comes to units installed in a corrosive atmosphere, cleaning the fins should be part of the regular maintenance program.

In this type of installation dust and debris must be removed quickly to avoid accumulation that will hamper normal operation.



WARNING

Risk of electric shock, can cause injury and death.
Risk of serious injury. The fan can start up and cause injury. Disconnect all electrical sources before inspecting the fan.

FILTER-DRIERS

Any residual particles from the condenser tubing, compressor and miscellaneous components are swept by the refrigerant into the liquid line and caught by the filter-drier.

It is recommended to replace the filter drier whenever a repair is made in the cooling line.

EXPANSION VALVE

The expansion valve's function is to keep the evaporator supplied with the proper amount of refrigerant to satisfy the load conditions.

Before adjusting superheat, check that the unit charge is correct and liquid line is full with no bubbles and that the circuit is operating under stable full load conditions.

The suction superheat for the suction leaving the evaporator is set at the factory to 10 degrees F.



WARNING

Risk of explosive discharge of high pressure refrigerant. It can cause personal injury or damage to equipment. Never loosen any connections in the refrigerant lines or electrical lines until they are depressurized on both sides of the compressor.

• 1. ANNUAL MAINTENANCE PROGRAM

Before intervening this unit make sure you have your complete personal safety equipment, and that the unit is without power and totally at rest. It is recommended to energize your unit 24 hours before the first start up to begin heating the compressor crankcase.

1.1 HYDRAULIC MAINTENANCE													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Filter cleaning hydronic circuit, if exist.	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												
Visual inspection of all water pipes for leak detection.	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												
Water replacement in the hydronic circuit.	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												

1.2 ELECTRICAL MAINTENANCE													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Retightening of connectors and terminals in the electrical panel, control part, power and junction boxes. (Quarterly)	Plan	x			x			x			x		
	Real												
Physical inspection of all contactors and relays on the electrical panel. (Monthly)	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												
Check amperage of all electric motors and compare according to equipment nameplate for detect abnormalities. (Quarterly)	Plan	x			x			x			x		
	Real												
Physically verify false contacts. (Montly)	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												
Check the adjusting and state of the electrical protections and fuses, these must be under the manufacturer's specifications. (Bimonthly)	Plan	x		x		x		x		x		x	
	Real												
Electrical panel cleaning. (Montly)	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												

1.3 PHYSICAL INSPECTION

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Condenser cleaning with pressurized water (Bimonthly)	Plan	x		x		x		x		x		x	
	Real												
Check refrigerant pressures (Quarterly)	Plan	x			x			x			x		
	Real												
Fan blades inspection, blades must be clean (Quarterly)	Plan	x			x			x			x		
	Real												
Check power consumption of compressors to determine refrigerant losses (Quarterly)	Plan	x			x			x			x		
	Real												
Compressor oil inspection (Monthly)	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												
Equipment's internal inspection and cleaning (Bimonthly)	Plan	x		x		x		x		x		x	
	Real												
Condensate drain line inspection, must be unobstructed (Quarterly)	Plan	x			x			x			x		
	Real												
Checking alarm history (Monthly)	Plan	x	x	x	x	x	x	x	x	x	x	x	x
	Real												

If there is any change of a component in the cooling circuit, is recommended that dehydrating filter be changed.

TROUBLESHOOTING

When a malfunction of the unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.

The following are common fault conditions and simple troubleshooting tips. If any other fault conditions that are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

PROBLEM	POSSIBLE CAUSES	POSSIBLE CORRECTIVE STEPS
Compressor will not run	Main or compressor disconnect switch open.	Close switch.
	Fuse blown. Circuit breakers open.	Check electrical circuits and motor windings for shorts or grounds. Investigate for possible overloading. Check for loose or corroded connections. Replace fuse or reset breakers after fault cause is corrected.
	Thermal overloads tripped.	Overloads are auto-reset. Check voltages, cycle times and mechanical operations. Allow time for auto-reset.
	Defective contactor or coil.	Replace.
	System shutdown by equipment protection devices.	Determine type and cause of shutdown and correct it before restarting equipment.
	No cooling required.	None. Wait until unit calls for cooling.
	Liquid line solenoid will not open.	Repair or replace solenoid. Check wiring.
	Motor electrical trouble.	Check motor for opens, shorts or burnout.
	Humidity in the compressor.	Replace compressor.
	Loose wiring.	Check all wire junctions. Tighten all terminal screws.

PROBLEM	POSSIBLE CAUSES	POSSIBLE CORRECTIVE STEPS
Compressor noisy or vibrating	Low lift, inverted start.	Control issues.
	Compressor running in reverse.	Check unit and compressor for correct phasing.
	Improper piping or support on suction or discharge.	Relocate, add, or remove hangers.
	Compressor mechanical failure.	Replace.
High discharge pressure	Noncondensables in system.	Extract noncondensables with approved procedures or replace charge.
	Circuit overcharged with refrigerant.	Remove excess, check liquid subcooling.
	Optional discharge shutoff valve not open.	Open valve.
	Condenser fan control wiring not correct.	Correct wiring.
	Fan not running.	Check electrical circuit and fan motor.
	Dirty condenser coil.	Clean coil.

PROBLEM	POSSIBLE CAUSES	POSSIBLE CORRECTIVE STEPS
Low suction pressure	Rapid load swings.	Stabilize load.
	Lack of refrigerant.	Check for leaks, repair, add charge. Check liquid sight glass.
	Fouled liquid line filter drier.	Check pressure drop across filter drier. Replace.
	Expansion valve malfunctioning.	Repair or replace and adjust for proper superheat.
	Condensing temperature too low.	Check means for regulating condenser temperature.
	Compressors not staging properly.	See corrective steps- Compressor staging intervals too low.
	Insufficient water flow.	Correct flow.
	Excess or wrong oil used.	Recover or change oil.
	Evaporator dirty.	Back flush or clean chemically.
Compressor thermal protection switch open	Operating beyond design conditions.	Correct so conditions are within allowable limits.
	Discharge valve not open.	Open valve.
	Short cycling.	Stabilize load or correct control settings for application.
	Voltage range or imbalance.	Check and correct.
	High superheat.	Adjust to correct superheat.
	Compressor mechanical failure.	Replace compressor.

PROBLEM	POSSIBLE CAUSES	POSSIBLE CORRECTIVE STEPS
Compressor oil level too high or too low	Oil hang-up in remote piping.	Review refrigerant piping and correct.
	Low oil level.	Verify superheat, add oil.
	Loose fitting on oil line.	Repair.
	Level too high with compressor operating.	Confirm correct superheat, remove oil.
	Insufficient water flow- Level too high.	Correct flow, verify superheat.
	Excessive liquid in crankcase- Level too high.	Check crankcase heater. Check liquid line solenoid valve operation.
	Short cycling.	Stabilize load or correct control settings for application.
	Expansion valve operation or selection.	Confirm superheat at minimum and maximum load conditions.
	Compressor mechanical issues.	Replace compressor.
	Wrong oil for application.	Verify.
Motor Overload Relays or Circuit Breakers Open	Voltage imbalance or out of range.	Correct power supply.
	Defective or grounded wiring in motor.	Replace compressor.
	Loose power wiring or burnt contactors.	Check all connections and tighten, replace contactors.
	High condenser temperature.	See corrective steps for High Discharge Pressure.

PROBLEM	POSSIBLE CAUSES	POSSIBLE CORRECTIVE STEPS
Equipment does not start.	Improper voltage.	Check the voltage and correct it.
	No water flow in the system.	Drain the system.
	Water flow is reversed.	Check flow direction.
Equipment starts but it is not cooling enough.	Incorrect setting of temperature value.	Set temperature.
	Dirty condenser.	Clean the condenser.
	Air suction and discharge clogged.	Remove all possible obstacles.
	Insufficient refrigerant in the system.	Contact the manufacturer. Check the system for leaks.
	Insufficient water flow in the system.	Check the pumping system.
	The water in the system is dirty or contaminated.	Drain dirty or contaminated water and replace it with clean water.
Fans do not operate.	No power.	Check the electrical connection. (False contact)
	Defective motor.	Contact the manufacturer.
Fan motor is protected.	Wrong electrical circuit.	Check the circuit and repair as necessary.
	Overheated starter relay.	Contact the manufacturer.
Water pump does not start.	No power.	Check the electrical connection.
	Pump with possible defect.	Check the water pump or replace if necessary.

This warranty applies only for products marketed by the manufacturer and its national dealers. The manufacturer guarantees the operation of this equipment, besides the labor employed in the manufacture thereof, for the period according to the attached table, against any manufacturing defect from the date of delivery of the product, under the following:

TERMS AND CONDITIONS

- Warranty service can only be carried out by an Authorized Service Center, as long as the manufacturer products have been traded by the manufacturer and it's authorized Mexico distributors. The address of the nearest Authorized Service Center can be consulted calling the following telephone number:
01 800 890 59 17
- To enforce this guarantee the fault or device status must be notified at 01 800 890 59 17, keep the number of the reporting service that will be provided when reporting the fault, besides the service report to validate that the equipment stopped operating due to a defect of the equipment components.
- During the term of this warranty, the manufacturer, through its Authorized Service Centers is committed to repair the equipment when the fault is attributable to a manufacturing error. In which case the manufacturer will be responsible for the delivery of the spare(s) and cover the cost of labor required.
- Spare parts and parts used to repair the appliance will have no cost to the customer, as long as the warranty period specified in this policy has not been completed.
- In the previous section manual labor is not included.
- This warranty does not cover damage or repairs required as a result of failures in the equipment installation.

THIS WARRANTY NOT BE VALID IN THE FOLLOWING CASES

1. When the product had been used under conditions other than normal.
2. When the product has not been operated in accordance with the instructions for use included with the computer.
3. When the equipment has been altered, repaired or installed by unauthorized personal by the manufacturer.

In case of loss of this policy, the consumer can request a replacement to the place of purchase or to the manufacturer, with prior presentation of proof of purchase (invoice).



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