

carrier centrifugal chiller manual

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| INTRODUCTION | |
| General — The 1719EX machine is factory assembled, wired, and leak tested. Installation consists primarily of establishing water and electrical services to the machine. The rigging, installation, field wiring, field piping and insulation are the responsibility of the contractor and/or customer. See Fig. 1 for model number information. | |
| Job Data | |
| Necessary information consists of: | |
| • job contract or specifications | |
| • machine location prints | |
| • rigging information | |
| • piping prints and details | |
| • field wiring drawings | |
| • starter manufacturer's installation details | |
| • Carrier certified drawings | |
| Equipment Required | |
| • mechanic's tools (refrigeration) | |
| • voltmeter and clamp-on ammeter | |
| • leak detector (halide or electronic) | |
| • absolute pressure manometer or wet-bulb vacuum indicator | |
| • portable vacuum pump | |

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Type: PDF, ePub, eBook

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construction. The cooler, condenser, and compressor assemblies are Water piping. The unit has quick and easy piping the standard unit Flanges are available Optional unit mounted starter.

Carrier's unit mounted starter is available as a low voltage Quick startup is assured once installation is complete, as All units are Compressors are run tested to ensure proper operation of all Power supply and controls Numerical product integrated control PIC II. The Carrier numerical control integrated into the second generation products PIC II Product Integrated Controls Human Interface CVC. The CVC Cooler Visual Control interface, which can be A 16 line by 40 character. LCD Liquid Crystal Display features 4 menu specific soft Local languages are available upon request. Chilled water reset. Reset can be accomplished manually or automatically from Reset saves energy when Demand limiting. This feature limits the power draw of the chiller during peak Comfort Network building automation system, a red line If a load shed signal Ramp loading. Ramp loading ensures a smooth pull down of water loop Automated controls test. The test can be easily executed prior to startup to verify that This feature allows for the operator to programme a yearly Occupancy schedules. Schedules can be programmed into the controller to ensure Extensive service menu. Unauthorized access to the service menu can be password protected. Built in diagnostic capabilities assist in troubleshooting and recommend proper corrective action for preset Battery backup. Battery backup provides protection during power failures and Encapsulated circuit boards are designed, built and tested in house. Each board meets Carrier's stringent quality standards Other control features include. Display of over 125 operating, status, and diagnostic Microprocessor controlled oil heater. The heater prevents excessive absorption of refrigerant into Safeties. Unit is automatically shut down when any of the following LCD screen, informing the operator of the shutdown cause. Alarm file. This file maintains the last 25 time and date stamped alarm Overrides.

The control system detects conditions which approach The system automatically reduces chiller capacity when any During the capacity override period, a pre alarm alert Once the condition is again Variable inlet guide vanes. Capacity control is by means of variable inlet guide vanes Load modulation is from 100% Simple to service. Mechanically cleanable cooler and condenser. The machine concept allows the refrigerant to be stored Description Centrifugal Liquid Chiller. European pressure vessel code Motor efficiency code. H — High efficiency. S — Standard efficiency. Condenser size Chronology. Motor code Compressor code. Options and accessories Shipped factory charged with refrigerant Flanged nozzles are available as an option with either nozzle in head type waterboxes or marine waterboxes. Bureau Veritas. American Bureau of Shipping. Germanischer Lloyd. Det Norsk Veritas. Registro Italiano Navale. Starter features and options O Optional. Physical data. Nominal capacity kW Average operating weight, kg. Standard. Extended. Width. Height For transport and storage of the 19XR units the minimum. Unit operating range. Evaporator. Condenser water cooled. Minimum. Maximum Maximum The values from the selection Unit selections are obtained from the Carrier sales force. Standard voltages Volt. For use on supply voltages Notes Auxiliary ratings 3 Phase, 50 Hz. Item. Average Design V Ph Hz Sealed Oil pump Voltage. Sealed kVA. Average W. Controls. Oil sump heater Notes All connections to the system and the electrical installations must be in full accordance The recommendations of European standard EN 602041 corresponds to IEC 602011 machine safety electrical machine components part 1 general regulations are Notes Conformance with EN 602041 is the best For IT networks the Provide a local earth, consult Note. If particular aspects of an actual installation do not conform to the conditions described Electrical characteristics of the motors Size B. Size D. Low voltage. Low, medium and high voltage. Motor Motor Max. kW.

Low voltage LRA Star. LRA Delta. RLA per kW. LRA Star. LRA Delta Motor Low voltage. Medium voltage. Max. Max. High voltage. Max. LRA Star. LRA Delta Low and medium voltage Motor electrical Max. Low voltage LRA Star. LRA Delta Selected voltage. Listed voltage. Selected voltage. Selected voltage Size E. Low and medium voltage. Motor Motor Low voltage. Max. Max. LRA Star. LRA Delta kW. LRA Delta EXAMPLE Find the rated load amperage for a motor listed Size B.

MotorMax.Low voltageLRA Star. LRA DeltaMotorMotor electricalMax.Low voltageLRA Star.
EXAMPLE Find the rated load amperage for a motor listedSize E. Max.Max.Max.LRA Star. LRA
DeltaMax.kW. LRA DeltaThe compressor continuously draws refrigerant vapour fromAs the
compressor suction reduces the pressure in the cooler,The energy required for boiling isWith heat
energy removed, the water becomes cold enoughAfter taking heat from the water, the refrigerant
vapour isThe liquid refrigerant passes through orifices into the FLASCSince the FLASC chamber is
at aThe liquid drains into a float valveWhen liquid refrigerantIn flashing, it removesThe refrigerant
is now at aCondenser water. Condenser. Condenser isolation valve. Transmission. Diffuser. Guide
vane motor. MotorImpeller. Compressor. Back pressure orifice. Oil cooling. Oil filter. Oil pump.
StatorRefrigerant cooling isolation valve. Float valve chamber. Filter drier. Orificed fitting.
Thermostatic expansion valves TXV Cooler isolation valve. Chilled water. Refrigerant liquid.
Refrigerant vapourMotor rotor. Motor shaft journal bearings. Low speed bull gear. High speed shaft
thrust bearing. High speed shaft journal bearing. Variable inlet guide vanes. Impeller shroudPipe
diffuser. High speed pinion gear. Oil heater. Oil pump motor. Oil filter coverFront viewSuction
elbow. Cooler pressure transducer. Machine identification nameplate situated on the. Refrigerant
charging valve. Typical flange connections. Oil drain valve. Oil level sight glass. Refrigerant oil
cooler hidden.