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# Installation, Start-Up and Service Instructions

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#### SAFETY CONSIDERATIONS

Installing and servicing air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install or service air-conditioning equipment.

Untrained personnel can perform basic maintenance, such as cleaning and replacing filters. All other operations should be performed by trained service personnel. When working on airconditioning equipment, observe precautions in literature and on tags and labels attached to unit.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly. Consult local building codes and National Electrical Code (NEC) for special installation requirements.

#### A WARNING

Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Turn off indoor fan coil power if applicable. Electrical shock can cause personal injury.

#### GENERAL

The heat pump high wall fan coil units (Fig. 1) come with supplemental electric heat. If your application requires heating, heat pump units must be used, both outdoors and indoors. See Table 1 for recommended system combinations.

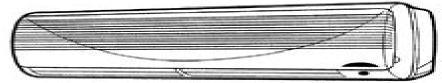


Fig. 1 — Typical High Wall Fan Coil Unit

# **Carrier Air Handler Manual**

**RS Peters** 

#### **Carrier Air Handler Manual:**

HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Arthur Bell, 2007-09-26 The Latest Information and Tricks of the Trade for Achieving First Rate HVAC Designs on Any Construction Job HVAC Equations Data and Rules of Thumb presents a wealth of state of the art HVAC design information and guidance ranging from air distribution to piping systems to plant equipment This popular reference has now been fully updated to reflect the construction industry s new single body of codes and standards Featuring an outline format for ease of use the Second Edition of this all in one sourcebook contains Updated HVAC codes and standards including the 2006 International Building Code Over 200 equations for everything from ductwork to air handling systems ASME and ASHRAE code specifications Over 350 rules of thumb for cooling heating ventilation and more New material including coverage of the new single body of construction codes now used throughout the country Inside This Updated HVAC Design Guide Definitions Equations Rules of Thumb for Cooling Heating Infiltration Ventilation Humidification People Occupancy Lighting and Appliance Equipment Cooling Load Factors Heating Load Factors Design Conditions and Energy Conservation HVAC System Selection Criteria Air Distribution Systems Piping Systems General Hydronic Glycol Steam Steam Condensate AC Condensate Refrigerant Central Plant Equipment Air Handling Units Chillers Boilers Cooling Towers Heat Exchangers Auxiliary Equipment Fans Pumps Motors Controllers Variable Frequency Drives Filters Insulation Fire Stopping Automatic Controls Building Automation Systems Equipment Schedules Equipment Manufacturers Building Construction Business Fundamentals Architectural Structural and Electrical Information Conversion Factors Properties of Air and Water Designer's Checklist Professional Societies and Trade Organizations References and Design Manuals Cleanroom Criteria and Standards Technical Manual for Crane, Mobile, Container Handling, Truck-mounted, 140-ton Capacity DED, FMC Link Belt Model HC-238A, Army Model MHE 248, NSN 3950-01-110-9224, 1985

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featured Principles of Heating, Ventilation, and Air Conditioning in Buildings John W. Mitchell, James E. Braun, 2012-03-06 Principles of HVAC in Buildings by J W Mitchell and J E Braun provides foundational knowledge for the behavior and analysis of HVAC systems and related devices The emphasis is on the application of engineering principles and features a tight integration of physical descriptions with a software program that allows performance to be directly calculated with results that provide insight into actual behavior The examples end of chapter problems and design projects are more than exercises they represent situations that an engineer might face in practice and are selected to illustrate the complex and integrated nature of an HVAC system or piece of equipment Coverage of material applicable to the field is broad a Fundamentals section on thermodynamics fluid flow heat transfer and psychrometrics types of HVAC systems and components comfort and air quality criteria a Loads section on weather data processing design heating and cooling loads an Equipment section on air and water distribution systems heating and cooling coils cooling towers refrigeration equipment and a Design and Control section on seasonal energy use control techniques supervisory control the HVAC design process and the rules of thumb often used in design The textbook provides a foundation for students and practicing engineers to design HVAC systems for buildings In addition there is extensive supplemental on line material that provides more in depth and comprehensive treatment of equipment and component modeling and performance that is geared towards current and future equipment design engineers Michigan Official Directory and Legislative Manual for the Years ..., 1928

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