

	FX09/12• FX09/12• FXL09/12•	FXN09/12• FXN09/12•	FX18•, FXN18• FX18•, FXN18• FXL15•	FX24•, FXN24• FX24•, FXN24•
Max. allowable piping length	65-5/8ft (20m)	49-1/4ft (15m)	98-1/2ft (30m)	
Min. allowable piping length	10ft (3m)			
Max. allowable piping height	49-1/4ft (15m)	39-3/8ft (12m)	65-5/8ft (20m)	
Additional refrigerant required for refrigerant pipe exceeding 32.8ft (10m) in length.	0.21oz/ft (20g/m)			
Gas pipe	O.D. 3/8 inch (9.5mm)	O.D. 1/2 inch (12.7mm)	O.D. 5/8 inch (15.9mm)	
Liquid pipe	O.D. 1/4 inch (6.4mm)			

*Be sure to add the proper amount of additional refrigerant.

Failure to do so may result in reduced performance.

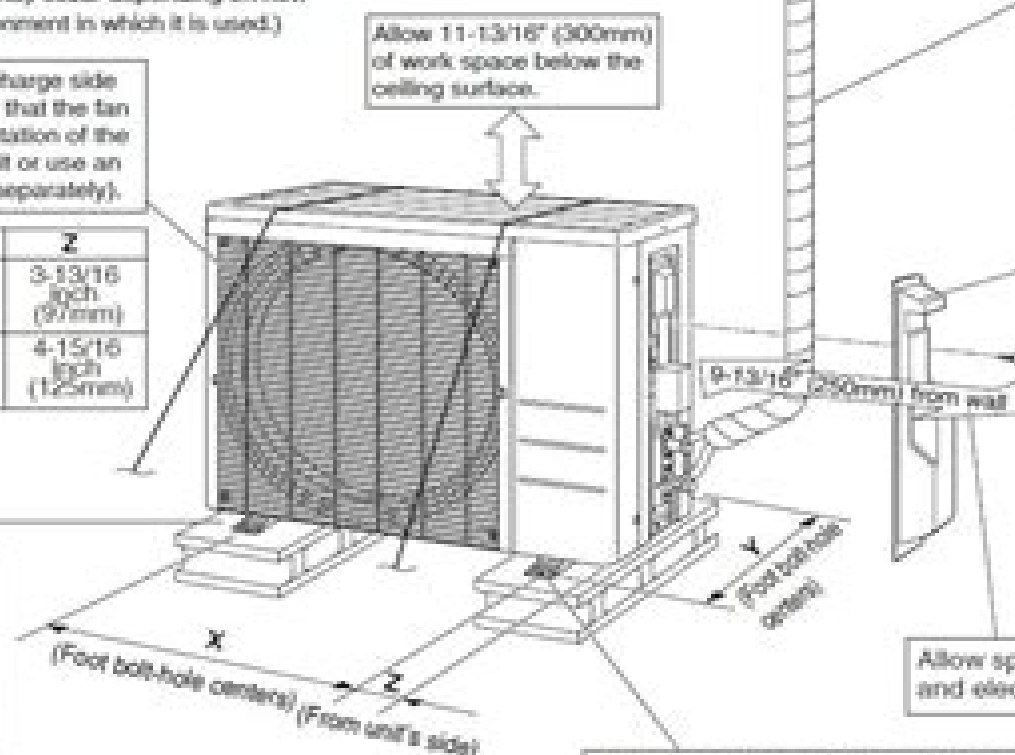
**The suggested shortest pipe length is 10ft (3m), in order to avoid noise from the outdoor unit and vibration.

(Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)

If strong wind blows into the air discharge side from the front and there is a danger that the fan may be damaged, change the orientation of the air discharge side of the outdoor unit or use an air direction adjustment grille (sold separately).

	X	Y	Z
09/12 class	18-1/2 inch (470mm)	12-1/8 inch (308mm)	3-13/16 inch (97mm)
15/18/24 class	23-5/8 inch (600mm)	13-5/8 inch (346mm)	4-15/16 inch (125mm)

In sites with poor drainage, use block bases for the outdoor unit. Adjust foot height until the unit is level. Otherwise, water leakage or pooling of water may occur.



X
(Foot bolt-hole centers) (From unit's side)

Z
(From unit's side)

Refrigerant piping must be protected from physical damage.
Install a plastic cover or equivalent.

Wrap the insulation pipe with finishing tape from bottom to top.

CAUTION

Keep the piping length between 10ft (3m) and 65-5/8ft (20m) (for FX09/12, FX09/12, FXL09/12), 10ft (3m) and 49-1/4ft (15m) (for FXN09/12, FXN09/12), 10ft (3m) and 98-1/2ft (30m) (for 15/18/24 class).

Stop valve cover

■ How to remove the stop valve cover

- 1) Remove the screw on the stop valve cover.
- 2) Slide the stop valve cover downward to remove it.

■ How to attach the stop valve cover

- 1) Insert the upper part of the stop valve cover into the outdoor unit.
- 2) Tighten the screw.

Allow space for piping and electrical servicing.

If there is a danger of the unit falling or overturning, fix the unit with foundation bolts, or with wire or other means.

Appearance of outdoor units may differ from some models.

Air Conditioner Installation Guide

**United States. Federal Housing
Administration**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the United States. Federal Housing Administration text.

Air Conditioner Installation Guide:

Guide to Split System Air Conditioners Installation Charles Nehme, Welcome to this comprehensive guidebook on split system air conditioners and HVAC systems In a world where climate control plays a significant role in our comfort and well being understanding how these systems work how to install them and how to maintain them is invaluable This guide is designed to serve as your go to resource for all things related to split system air conditioners Whether you re a homeowner looking to install a new system a business owner seeking to improve indoor comfort or simply someone curious about how these systems operate you ll find a wealth of information within these pages Our goal is to provide you with clear and concise explanations of the key concepts installation procedures maintenance practices and safety considerations associated with split system air conditioners We ve also included helpful appendices a glossary and additional tips to enhance your understanding and ensure that you get the most out of your HVAC system It s important to recognize that split system air conditioners are more than just appliances they are essential tools for maintaining a comfortable and healthy living or working environment Proper installation and maintenance are crucial for their efficiency and longevity Safety is paramount when dealing with these systems and this guide aims to equip you with the knowledge and guidance needed to ensure your system operates safely and effectively Whether you re embarking on a DIY installation project looking to troubleshoot common issues or simply want to become a more informed consumer we hope this guide proves to be a valuable resource on your journey to understanding and maximizing the benefits of split system air conditioners Thank you for entrusting us with your quest for knowledge in the world of HVAC systems Let s begin this informative journey together

Q A According to my research the top 5 questions people ask Google about split system air conditioner installation are How much does it cost to install a split system air conditioner What size split system air conditioner do I need What are the best places to install a split system air conditioner How long does it take to install a split system air conditioner What are the benefits of installing a split system air conditioner Here are some more detailed answers to these questions

- 1 How much does it cost to install a split system air conditioner The cost of installing a split system air conditioner will vary depending on a number of factors including the size of the system the complexity of the installation and the labor rates in your area However you can expect to pay between 2 000 and 5 000 for a basic split system air conditioner installation
- 2 What size split system air conditioner do I need The size of split system air conditioner you need will depend on the size of the room or area you want to cool You can calculate the required cooling capacity in British Thermal Units or BTUs using a variety of online calculators Once you know the required cooling capacity you can choose a split system air conditioner with the appropriate BTUs
- 3 What are the best places to install a split system air conditioner The best places to install a split system air conditioner are in high traffic areas such as living rooms and bedrooms You should also avoid installing the indoor unit in direct sunlight as this can reduce its efficiency The outdoor unit should be installed in a well ventilated area away from direct sunlight and heat sources
- 4 How

long does it take to install a split system air conditioner A typical split system air conditioner installation can be completed in one day However the installation time may vary depending on the complexity of the installation 5 What are the benefits of installing a split system air conditioner Split system air conditioners offer a number of benefits including Energy efficiency Split system air conditioners are very energy efficient which can save you money on your energy bills Zoning Split system air conditioners allow you to zone your home so you can cool only the rooms you need to cool This can save you even more money on your energy bills Flexibility Split system air conditioners are very flexible and can be installed in a variety of locations This makes them a good choice for homes of all shapes and sizes Quiet operation Split system air conditioners operate very quietly so you can enjoy a cool and comfortable home without being disturbed by noise If you are considering installing a split system air conditioner it is important to consult with a qualified HVAC technician to get a free estimate and to learn more about the benefits and drawbacks of different split system air conditioner models

The Ultimate Furnace Installation Guide , *How to Install an HVAC Unit: A guide to installing a new HVAC system, including proper placement and sizing* Charles Nehme, In today s world the importance of a comfortable indoor environment cannot be overstated Whether in our homes offices or commercial spaces heating ventilation and air conditioning HVAC systems play a crucial role in maintaining our well being and productivity However many homeowners and DIY enthusiasts are often overwhelmed by the complexity of installing a new HVAC system That s where this guide comes in This book is designed to demystify the HVAC installation process providing clear step by step instructions to help you successfully install a new system in your home or business With over insert years of experience years of experience in the HVAC industry I have witnessed firsthand the challenges many face when attempting to tackle this task I understand the frustration that can arise from navigating technical specifications sizing issues and installation intricacies In this guide you will find practical advice on assessing your needs choosing the right system and understanding the critical importance of proper placement and sizing Each chapter is structured to build your knowledge and confidence whether you are a seasoned professional or a beginner embarking on your first installation project Moreover this book emphasizes the importance of safety and compliance with local codes ensuring that you not only achieve optimal performance from your HVAC system but also adhere to legal standards I will provide troubleshooting tips and maintenance advice to help you keep your system running efficiently for years to come As you delve into the following chapters I encourage you to take your time gather your tools and approach each step with patience and diligence Remember proper installation is the foundation of an efficient HVAC system and a well installed unit can significantly enhance your comfort while reducing energy costs I hope this guide serves as a valuable resource on your journey to mastering HVAC installation Let s get started on creating a comfortable and energy efficient environment for you and your loved ones Warm regards Charles Nehme [HVAC A to Z - A Comprehensive Guide to Heating, Ventilation, and Air Conditioning](#) Charles Nehme, A Comprehensive Guide to Heating Ventilation and Air Conditioning The field of heating

ventilation and air conditioning HVAC is a crucial aspect of modern living impacting our comfort health and overall well being As we strive for energy efficiency and sustainability the significance of HVAC systems has never been greater This comprehensive guide aims to provide a detailed exploration of all aspects of HVAC from its historical development to cutting edge technologies and practices Whether you are a seasoned HVAC professional a building owner or someone curious about the inner workings of HVAC systems this guide has something to offer We start by understanding the fundamental principles of heating ventilation and air conditioning including thermodynamics heat transfer and psychrometrics With this knowledge as a foundation we delve into the different types of heating and cooling systems their components and efficient operation Energy efficiency is a key theme throughout this guide and we explore various strategies to optimize energy use reduce environmental impact and cut operating costs From load calculations and efficiency ratings to smart building automation and renewable energy integration we aim to equip readers with tools to create sustainable and eco friendly HVAC solutions We also place a strong emphasis on indoor air quality and the role of ventilation in maintaining a healthy and comfortable indoor environment Discussions on mechanical and natural ventilation methods help shed light on the importance of fresh air in our daily lives Beyond the technical aspects we address broader considerations such as compliance with building codes and safety standards the integration of IoT technology in HVAC systems and the potential for demand response and peak load management to create a more balanced energy grid The challenges and opportunities in the HVAC industry are not overlooked as we explore how evolving technologies and changing environmental concerns present new avenues for growth and innovation In conclusion this comprehensive guide aims to be a valuable resource for anyone seeking a deeper understanding of heating ventilation and air conditioning As we strive for sustainable practices and energy efficient solutions the knowledge shared within these pages can pave the way for a more comfortable healthier and environmentally conscious future HVAC Q A What is HVAC HVAC stands for heating ventilation and air conditioning It is a system of technology that controls the temperature humidity and ventilation of indoor and restricted spaces How does HVAC work HVAC systems typically use a combination of heating and cooling elements fans and ductwork to control the indoor environment The specific components and operation of an HVAC system will vary depending on the type of system and the specific needs of the building What are the different types of HVAC systems There are many different types of HVAC systems but some of the most common include Central heating and cooling systems Split systems Ductless mini split systems Heat pumps Furnaces Air conditioners How do I choose the right HVAC system for my home When choosing an HVAC system for your home there are a number of factors to consider such as the size of your home the climate you live in your budget and your energy efficiency goals It is important to consult with a qualified HVAC professional to get the best advice for your specific needs What is the best way to maintain my HVAC system The best way to maintain your HVAC system is to have it inspected and serviced by a qualified professional on a regular basis This will help to ensure that your system is operating efficiently and safely You

should also change your air filter regularly according to the manufacturer's recommendations Short answer HVAC stands for heating ventilation and air conditioning It is a system of technology that controls the temperature humidity and ventilation of indoor and restricted spaces There are many different types of HVAC systems and the best way to choose the right one for your home is to consult with a qualified HVAC professional To maintain your HVAC system have it inspected and serviced by a qualified professional on a regular basis and change your air filter regularly **Electrical Installation Guide** ,2008

Organizational, DS, GS, and Depot Maintenance Manual Including Repair Parts ,1991 HVAC Equipment Specifications: Guide for Engineers and Designers Charles Nehme, Heating Ventilation and Air Conditioning HVAC systems play a crucial role in ensuring indoor comfort air quality and energy efficiency across various residential commercial and industrial applications As buildings and infrastructure evolve with advanced technologies the need for precise and well defined HVAC equipment specifications has never been greater This guide aims to provide a structured approach to writing technical HVAC equipment specifications ensuring clarity compliance with industry standards and alignment with project requirements By detailing essential parameters such as performance materials efficiency ratings and installation guidelines these specifications serve as a critical reference for engineers contractors and procurement teams Well crafted specifications not only facilitate smooth project execution but also help in selecting the most suitable equipment ensuring long term reliability and optimizing system performance Whether for new installations retrofits or system upgrades this guide provides a practical framework for specifying HVAC components with accuracy and professionalism By adhering to the principles outlined here professionals can enhance system design streamline procurement processes and achieve sustainable cost effective HVAC solutions Minimum Property Requirements for Properties of One Or Two Living Units Located in Six Rocky Mountain States United States. Federal Housing Administration,1954 Supplement to National Directory of Commodity Specification United States. National Bureau of Standards,1947 **Minimum Property Requirements for Properties of One Or Two Living Units Located in the States of Minnesota, North Dakota and South Dakota** ,1952 *Organizational maintenance manual* ,1984 *Geothermal Heat Pumps: Installation Guide* Stephen K. Ewings,2008-10 **Illustrated Guide to the 1999 National Electrical Code** John E. Traister,1999 This fully illustrated guide offers a quick and easy visual reference for installing electrical systems Whether you're installing a new system or repairing an old one you'll appreciate the simple explanations written by a code expert and the detailed intricately drawn and labeled diagrams A real time saver when it comes to deciphering the current NEC Minimum Property Requirements for Properties of One Or Two Living Units Located in the States of Alabama, Georgia, Mississippi and Tennessee United States. Federal Housing Administration,1952 **Minimum Property Requirements for Properties of One Or Two Living Units Located in the State[s] of Districts Covered by the Insuring Offices, Alaska, Hawaii, Puerto Rico and Virgin Islands** United States. Federal Housing Administration,1955 *Minimum Property Requirements for Properties of One Or Two*

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