

NetworkAIR[®] FM Precision Air Conditioner Installation — Errata



See also

The tables on this page replace the “Length of common valves and fittings” table on page 48 of the NetworkAIR FM Precision Air Conditioner Installation manual (990-1138A). For detailed installation information please refer to the installation manual.

ASHRAE refrigerant equivalent lengths for fittings and valves standards

Size of Pipe in Inches	Type of Fitting or Valve - Equivalent Length of Pipe in Feet				
	Gate Valve	Std. Elbow 90°	Reduced Coupling	Side Outlet “T”	Angle Valve
1/2	0.7	1.6	1.6	3.0	7.0
3/4	0.9	2.0	2.0	4.0	9.0
1	1.0	2.6	2.6	5.0	12.0
1-1/4	1.5	3.3	3.3	7.0	15.0
1-1/2	1.8	4.0	4.0	8.0	18.0
2	2.3	5.0	5.0	10.0	24.0
2-1/2	2.8	6.0	6.0	12.0	29.0
3	3.2	7.5	7.5	15.0	35.0

ASHRAE equivalent lengths for fittings and valves standards (6ft/s water)

Size of Pipe in Inches	Type of Fitting or Valve - Equivalent Length of Pipe in Feet						
	Std Elbow 90°	Long Turn Elbow 90°	Reduced Coupling	Gate Valve	Globe Valve	Tee Branch [†]	Tee Line [†]
1/2	1.7	0.9	0.7	1.2	28.9	4.1	1.5
3/4	2.3	1.2	0.9	1.6	39.1	5.6	2.4
1	3.0	1.5	1.2	2.1	51.0	6.7	3.4
1-1/4	4.0	2.0	1.6	2.8	68.0	8.2	4.4
1-1/2	4.7	2.4	1.9	3.3	79.9	9.6	5.4
2	6.0	3.0	2.4	4.2	102.0	11.9	7.7
2-1/2	7.2	3.6	2.9	5.0	122.4	14.5	10.1
3	8.9	4.5	3.6	6.2	151.3	16.7	12.6
3-1/2	10.3	5.2	4.1	7.2	175.1	20.2	15.2
4	11.4	5.7	4.6	8.0	193.8	21.8	17.9

[†]Screwed pipe fitting

Corrected Information



See also

The table on this page provides the corrected information for the table “Recommended line sizes” on page 48 of NetworkAIR FM Precision Air Conditioner Installation Manual (990-1138A). For detailed installation information please refer to the installation manual.

Recommended line sizes

Equivalent Length ft (m)	Line type	FM35	FM40	FM50
50 (15)	Discharge Line (horizontal)	1-1/8	1-1/8	1-3/8
	Discharge Line (vertical)	7/8	7/8	1-1/8
	Liquid Line	7/8	7/8	7/8
	Flooded condenser to receiver	1-1/8	1-1/8	1-1/8
100 (30)	Discharge Line (horizontal)	1-1/8	1-3/8	1-3/8
	Discharge Line (vertical)	7/8	7/8	1-1/8
	Liquid Line	7/8	7/8	7/8
	Flooded condenser to receiver	1-1/8	1-1/8	1-1/8
150 (46)	Discharge Line (horizontal)	1-1/8	1-3/8	1-5/8
	Discharge Line (vertical)	7/8	7/8	1-1/8
	Liquid Line	7/8	7/8	1-1/8
	Flooded condenser to receiver	1-1/8	1-1/8	1-1/8
200 (61)	Discharge Line (horizontal)	1-1/8	1-3/8	1-5/8
	Discharge Line (vertical)	7/8	7/8	1-1/8
	Liquid Line	7/8	7/8	1-1/8
	Flooded condenser to receiver	1-1/8	1-1/8	1-1/8

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
 - **www.apc.com** (Corporate Headquarters)
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
 - **www.apc.com/support/**
Global support searching APC Knowledge Base and using e-support.
- Contact an APC Customer Support center by telephone or e-mail.
 - Regional centers:

Direct InfraStruXure Customer Support Line	(1)(877)537-0607 (toll free)
APC headquarters U.S., Canada	(1)(800)800-4272 (toll free)
Latin America	(1)(401)789-5735 (USA)
Europe, Middle East, Africa	(353)(91)702000 (Ireland)
Japan	(0) 3 5434-2021
Australia, New Zealand, South Pacific area	(61) (2) 9955 9366 (Australia)

- Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

To obtain a repair authorization number for a NetworkAIR product, call APC NetworkAIR technical services between 8:00 A.M. and 5:00 P.M. Eastern time, Monday through Friday:

- Phone: (1)(888)695-6500 (USA and Canada, toll free)
- Fax: (1)(401)788-2691

Entire contents copyright © 2004 American Power Conversion. All rights reserved.
Reproduction in whole or in part without permission is prohibited. APC, the APC logo, and NetworkAIR are trademarks of American Power Conversion Corporation and may be registered in some jurisdictions. All other trademarks, product names, and corporate names are the property of their respective owners and are used for informational purposes only.

