

Installation Instructions

HOSE ASSEMBLY KITS

50HQ900-27112
50HQ900-00112
50HQ900-28106

50BQ900-00112
50HQ900-01112

GENERAL

Hose assemblies must be installed properly and checked regularly. Improper installation of hose assemblies can cause failure or reduce service life. Because water leakage could cause severe damage to ceiling tile, furnishings, etc., installer must adhere strictly to these instructions. Carrier does not accept responsibility where proper installation and maintenance procedures have not been followed.

INSTALLATION

1. Allow ample slack between connection points, to ensure minimum bend radius is not exceeded (see Hose Specification Table). Exceeding minimum bend radius can cause hose to collapse, or cause damage to hose wall — leading to reduction in water flow rate. A minimum bend radius of 4 in. means that the shortest distance between sections of bent hose must not be less than 8 inches.
2. Where radius falls below required minimum, an angle adapter should be used as shown in Fig. 1a to avoid sharp bends in hose. Since hose may change in length from +2% to -4% under surge of high pressure, provide sufficient slack as shown in Fig. 1b. Provide adequate clearance to sharp surfaces to prevent chafing under such conditions.
3. Bend radius specifications are for hoses above 40 F (4 C). If hose assemblies have been in storage or are being installed in temperatures below 40 F (4 C), hoses are stiffer than normal. Under these conditions increase minimum bend radius 50% and be careful not to bend hose sharply. *Do not twist hose under any circumstances.*
4. Do not use pipe dope as Carrier hoses are factory furnished with teflon tape on all MPT fittings. If pipe dope is preferred use only a small amount on male pipe threads of adapters. Be careful to avoid permitting pipe dope from reaching flared surfaces of joints.
5. Clean and flush system. Flush hydronic loop with clean water thoroughly prior to start-up. Do not use cleaning chemicals, to avoid possible hose damage and the necessity to bypass screening. Do not damage hose by exceeding bend radius during flushing. If one hose is not long enough to short circuit the supply and return, use both hoses with a Flare x Flare (J.I.C. 37°) adapter to connect hoses. See Fig. 2.

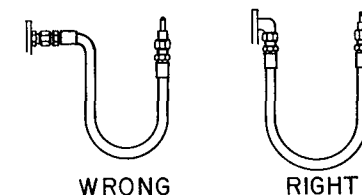
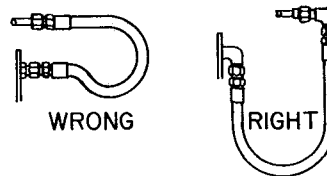


Fig. 1a — Use Angle Adapters

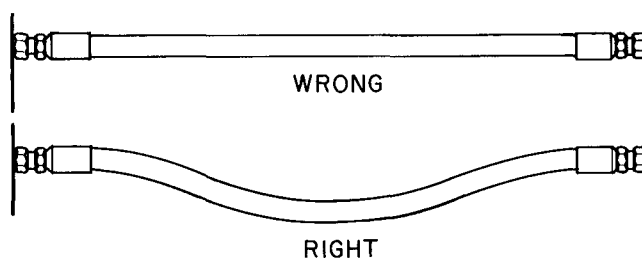


Fig. 1b — Provide Sufficient Slack

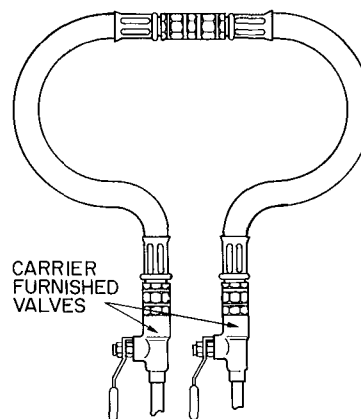


Fig. 2 — Temporary Connection for System Flushing

SERVICE AND MAINTENANCE

1. Inspect hoses periodically. A convenient inspection time is when unit air filters require servicing.
2. Inspect for proper bend radius provided by installer.
3. Inspect hoses for cracks, cuts, bulges, soft spots. Replace any hose that shows these damage symptoms.
4. Inspect for small water leaks at hose fitting. If leak is detected, replace hose immediately. *Do not* attempt to repair it.

⚠ CAUTION

Do not introduce chemicals into hose water loop system to avoid hose damage or corrosion stress cracks in fittings. Consult a water treatment specialist in your area if chemical introduction is being considered. These hoses are not fire rated.

Hose Specification Table

ACCESSORY PART NO. 50	USED ON MODEL 50	NO. HOSES IN KIT	HOSE I.D. AND LENGTH (in.)	ADAPTER (No. Supplied)	ELBOW (No. Supplied)	FIG.	MINIMUM BEND RADIUS (in.)	MAXIMUM WORKING PRESSURE (psig)	MINIMUM BURST PRESSURE (psig)	NO. HOSES REQUIRED PER UNIT	
BQ90000112	KQ 006-019	12	½ x 18	½-in MPT x ½-in Flare (2/hose)	5/8 in ODS x ½-in FPT (1/hose)	1	4	300	1200	2	
HQ90027112	QEH 007, 009, 012		½ x 36		None	2					6
HQ90000112	VQ 014-042 QEH 018-030		¾ x 36	¾-in MPT x ¾-in Flare (2/hose)			8				
HQ90001112	VQ 048,060, 080,100 QEH 036-072		1 x 36	1-in MPT x 1-in Flare (2/hose)							
HQ90028106	HQ,VQ 100	6	1 x 36	1-in MPT x 1-in Flare (2/hose)							

NOTE: Adapters are steel, zinc plated with a dichromate finish. Elbows are cast copper.

Installation Instructions

HOSE ASSEMBLY KITS

50HQ900-27112
50HQ900-00112
50HQ900-29106

50BQ900-00112
50HQ900-01112
50VQ900-02106

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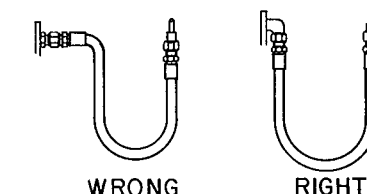
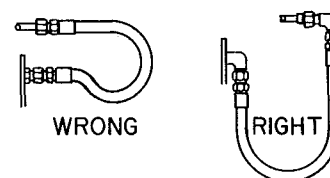


Fig. 1a — Use Angle Adapters

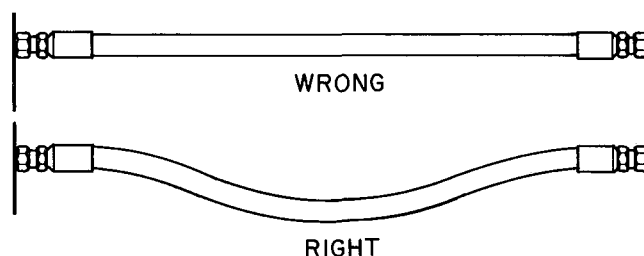


Fig. 1b — Provide Sufficient Slack

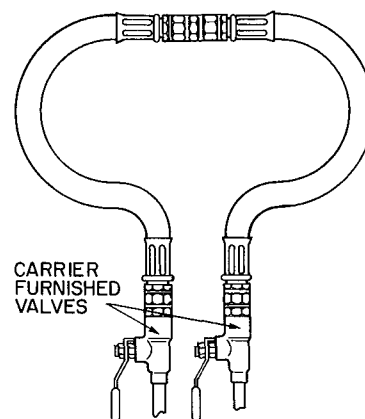


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BQ90000112	BQ,KQ 006-019	2	½ x 18	½-in MPT x ½-in Flare (2/hose)	None	1	4	300	1200	2
HQ90027112	HQ 009,013 QEH 007,009, 012 QEV 009,012		½ x 36			2				
HQ90000112	HQ,VQ 014-042 QEH 007-030 QEV 009-036		¾ x 36							
HQ90001112	HQ,VQ 048,060, 080,100 QEH 036-080 QEV 042-080		1 x 36							
HQ90029106	HQ,VQ 120	6	1¼ x 36	1¼-in MPT x 1¼-in Flare (2/hose)		9				
VQ90002106	VQ 200,240	6	1½ x 36	1½-in MPT x 1½-in Flare (2/hose)						

NOTE: Adapters are steel, zinc plated with a dichromate finish. Elbows are cast copper.