



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB21-0009R1

Issued December 6, 2021

Revised January 25, 2022

Page 1 of 4

Subject: Installation procedure to install “Z” model equipment with non-“Z” model equipment

This service bulletin will detail the process required to install a Hoshizaki “Z” model unit to a Non “Z” model for remote equipment. The use of an OS quick lineset will minimize installation time.

Note: Line set specifications do not change.

Line set maximums:

Total length: 100 feet

Maximum rise: 33 feet (Condenser above the head unit)

Maximum lift: 10 feet (Condenser below the head unit)

For installations where the line set will exceed 66 feet in length an additional charge of 0.4 OZ per additional foot of line set must be added.

Units that use 1/4” liquid lines require up sizing the line set for applications over 66 feet. Please refer to the instruction manuals for specific line set installation instructions

See the scenarios below for installation of mis-matched units:

Scenario: Precharged line set to "Z" head unit & "Z" condenser

1. Recover gas from the line set
2. Cut quick connects off
3. Weld (braze) line set in
4. Leak test line set with nitrogen
5. Evacuate line set to 500 microns
6. Pressurize line set to 30psi of R-404a vapor pressure
7. Open shut off valves on both head unit and condensing unit

Scenario: Precharged line set to NON-“Z” head unit & "Z" condenser

1. Recover gas from the line set
2. Cut quick connects off the condenser side of the line set
3. Weld (braze) line set to the condenser
4. Leak test the line set with nitrogen
5. Evacuate line set to 500 microns or lower
6. Pressurize line set to 30psi of R-404a vapor pressure
7. Connect Line set to the head unit via quick connects
8. Open shut off valves on the condensing unit

Scenario: Precharged line set to "Z" head unit & NON-"Z" condenser

1. Recover gas from the line set
2. Cut quick connects off the head unit side of the line set
3. Weld (braze) the line set to the head unit
4. Leak test the line set with nitrogen
5. Evacuate the line set to 500 microns
6. Pressurize the line set to 30psi of R-404a vapor pressure
7. Connect the line set to the condenser via the quick connects
8. Open the shut off valves on the head unit

Scenario: Non-Precharged line set to "Z" head unit & "Z" condenser

1. Weld the line set to the condenser and the head unit
2. Leak test the line set with nitrogen
3. Evacuate the line set to 500 microns
4. Charge the line set to 30psi on R-404a vapor pressure
5. Open the shut off valves on the head unit and the condenser

Scenario: Non-Precharged line set to NON-"Z" head unit & a "Z" condenser

1. Recover gas from the head unit
2. Remove the quick connects from the head unit
3. Weld (braze) the line set to the head unit and the condenser
4. Leak test the line set connection with nitrogen
5. Evacuate the line set to 500 microns
6. Charge the head unit and line set to the head unit name plate charge volume and type. Also shown on page 4
7. Open the shut off valves on the condenser

Scenario: Non-Precharged line set to "Z" head unit & NON-"Z" condenser

1. Recover gas from condenser
2. Remove quick connects from the condenser
3. Weld (braze) line set to the condenser and the head unit
4. Leak test the line set with nitrogen
5. Evacuate the line set and condenser to 500 microns
6. Charge the line set and the condenser to the condenser charge amount shown on page 4
7. Open the shut off valve on the head unit

Scenario: Non-Precharged line set to NON-"Z" head unit & NON-"Z" condenser

1. Recover the refrigerant from the head unit and the condenser
2. Remove the quick connects from the head unit and the condenser
3. Weld the non-charge line set to the head unit and the condenser
4. Leak test the weld connections with nitrogen
5. Evacuate the entire system to 500 microns
6. Charge the entire system to the name plate charge volume and type shown on page 4

SB21-0009R1

Issued December 6, 2021

Revised January 25, 2022

Page 3 of 4

Model Number	Non Pre-charged Line Set		
	25 feet	35 feet	55 feet
KM-520MRJ/Z	HS-5587	HS-5588	N/A
KM-660MRJ/Z	HS-5587	HS-5588	N/A
KM-901MRJ/Z	HS-5604	HS-5605	HS-5606
KM-901MRJ3/Z	HS-5604	HS-5605	HS-5606
KM-1100MRJ/Z	HS-5604	HS-5605	HS-5606
KM-1301SRJ/Z	HS-5604	HS-5605	HS-5606
KM-1301SRJ3/Z	HS-5604	HS-5605	HS-5606
KM-1340MRJ/Z	HS-5604	HS-5605	HS-5606
KM-1340MRJ3/Z	HS-5604	HS-5605	HS-5606
KM-1601MRJ/Z	HS-5323	HS-5324	HS-5325
KM-1601MRJ3/Z	HS-5323	HS-5324	HS-5325
KM-1601SRJ/Z	HS-5323	HS-5324	HS-5325
KM-1601SRJ3/Z	HS-5323	HS-5324	HS-5325
KM-1900SRJ/Z	HS-5323	HS-5324	HS-5325
KM-1900SRJ3/Z	HS-5323	HS-5324	HS-5325
KM-2200SRJ3/Z	HS-5323	HS-5324	HS-5325
KM-2600SRJ3/Z	HS-5323	HS-5324	HS-5325
KMH-2100SRJ/Z	HS-5323	HS-5324	HS-5325
KMH-2100SRJ3/Z	HS-5323	HS-5324	HS-5325
KMD-530MRJ/Z	HS-5587	HS-5588	N/A
KMD-860MRJ/Z	HS-5604	HS-5605	HS-5606
KML-700MRJ/Z	HS-5604	HS-5605	HS-5606
F-1002MRJ/Z/C/SC	HS-5587	HS-5588	N/A
F-1501MRJ/Z/C/SC	HS-5604	HS-5605	HS-5606
F-2001MRJ/Z/C/SC	HS-5323	HS-5324	HS-5325
F-2001MRJ3/Z/C/SC	HS-5323	HS-5324	HS-5325
FD-650MRJ/Z-C	HS-5587	HS-5588	N/A
FD-1002MRJ/Z-C	HS-5587	HS-5588	N/A
URC-5F/Z	HS-5587	HS-5588	N/A
URC-9F/Z	HS-5604	HS-5605	HS-5606
URC-14F/Z	HS-5604	HS-5605	HS-5606
URC-22F/Z	HS-5323	HS-5324	HS-5325
URC-26J/Z	HS-5323	HS-5324	HS-5325

SB21-0009R1

Issued December 6, 2021

Revised January 25, 2022

Page 4 of 4

Model Number	Head unit charge	Condenser/URC charge		Total Unit Charge*
KM-520MRJ/Z	2lb 4.7oz	URC-5F/Z	1lb 14oz	4lb 2.7oz
KM-660MRJ/Z	2lb 4.7oz	URC-5F/Z	1lb 14oz	4lb 2.7oz
KM-901MRJ/Z	7lb 15oz	URC-14F/Z	4lb 6.5oz	12lb 5.5oz
KM-901MRJ3/Z	7lb 15oz	URC-14F/Z	4lb 6.5oz	12lb 5.5oz
KM-1100MRJ/Z	5lb 4.7oz	URC-14F/Z	4lb 6.5oz	9lb 11.2oz
KM-1301SRJ/Z	5lb 15.2oz	URC-14F/Z	4lb 6.5oz	10lb 5.8oz
KM-1301SRJ3/Z	5lb 15.2oz	URC-14F/Z	4lb 6.5oz	10lb 5.8oz
KM-1340MRJ/Z	6lb 9.8oz	URC-14F/Z	4lb 6.5oz	11lb 0.3oz
KM-1340MRJ3/Z	6lb 9.8oz	URC-14F/Z	4lb 6.5oz	11lb 0.3oz
KM-1601MRJ/Z	8lb 2.5oz	URC-22F/Z	7lb 11.5oz	15lb 14oz
KM-1601MRJ3/Z	8lb 2.5oz	URC-22F/Z	7lb 11.5oz	15lb 14oz
KM-1601SRJ/Z	15lb 3.4oz	URC-22F/Z	7lb 11.5oz	22lb 14.8oz
KM-1601SRJ3/Z	15lb 3.4oz	URC-22F/Z	7lb 11.5oz	22lb 14.8oz
KM-1900SRJ/Z	13lb 12.5oz	URC-22F/Z	7lb 11.5oz	21lb 7.9oz
KM-1900SRJ3/Z	13lb 12.5oz	URC-22F/Z	7lb 11.5oz	21lb 7.9oz
KM-2200SRJ3/Z	8lb 6oz	URC-22F/Z	7lb 11.5oz	16lb 1.5oz
KM-2600SRJ3/Z	19lb 13.5oz	URC-26F/Z	9lb 11.2oz	29lb 8.7oz
KMH-2100SRJ/Z	8lb 6oz	URC-22F/Z	7lb 11.5oz	16lb 1.5oz
KMH-2100SRJ3/Z	8lb 6oz	URC-22F/Z	7lb 11.5oz	16lb 1.5oz
KMD-530MRJ/Z	1lb 15.7oz	URC-5F/Z	1lb 14oz	3lb 14oz
KMD-860MRJ/Z	5lb 14.6oz	URC-9F/Z	3lb 14.8oz	9lb 14.6oz
KML-700MRJ/Z	7lb 8.6oz	URC-9F/Z	3lb 14.8oz	11lb 7.4oz
F-1002MRJ/Z/C/SC	2lb 3.3oz	URC-5F/Z	1lb 14oz	4lb 1oz
F-1501MRJ/Z/C/SC	5lb 2.5oz	URC-14F/Z	4lb 6.5oz	9lb 9oz
F-2001MRJ/Z/C/SC	8lb 2.5oz	URC-22F/Z	7lb 11.5oz	15lb 14oz
F-2001MRJ3/Z/C/SC	8lb 2.5oz	URC-22F/Z	7lb 11.5oz	15lb 14oz
FD-650MRJ/Z-C	2lb 3.2oz	URC-5F/Z	1lb 14oz	4lb 1.2oz
FD-1002MRJ/Z-C	2lb 3.2oz	URC-5F/Z	1lb 14oz	4lb 1.2oz
URC-5F/Z			1lb 14oz	
URC-9F/Z			3lb 15.9oz	
URC-14F/Z			4lb 6.5oz	
URC-22F/Z			7lb 11.5oz	
URC-26J/Z			9lb 11.2oz	

*Total unit charge may not match combined Head and URC charge due to rounding issues during the gram to once conversion.

If you have question concerning this Service Bulletin, please contact the Technical Support department techsupport@hoshizaki.com or 1-800-233-1940.