

MANUFACTURED FOR:
MITSUBISHI ELECTRIC US, INC.

Hail Guard

**HG-A1, HG-A2, HG-A3, HG-A4, HG-B4, HG-A5,
HG-A6, HG-A7, HG-A8, HG-A9**

For use with: M-Series / P-Series / S-Series (PUMY) Outdoor Units

INSTALLATION MANUAL

FOR INSTALLER

For safe and correct use, please read this installation manual thoroughly before installing these component.

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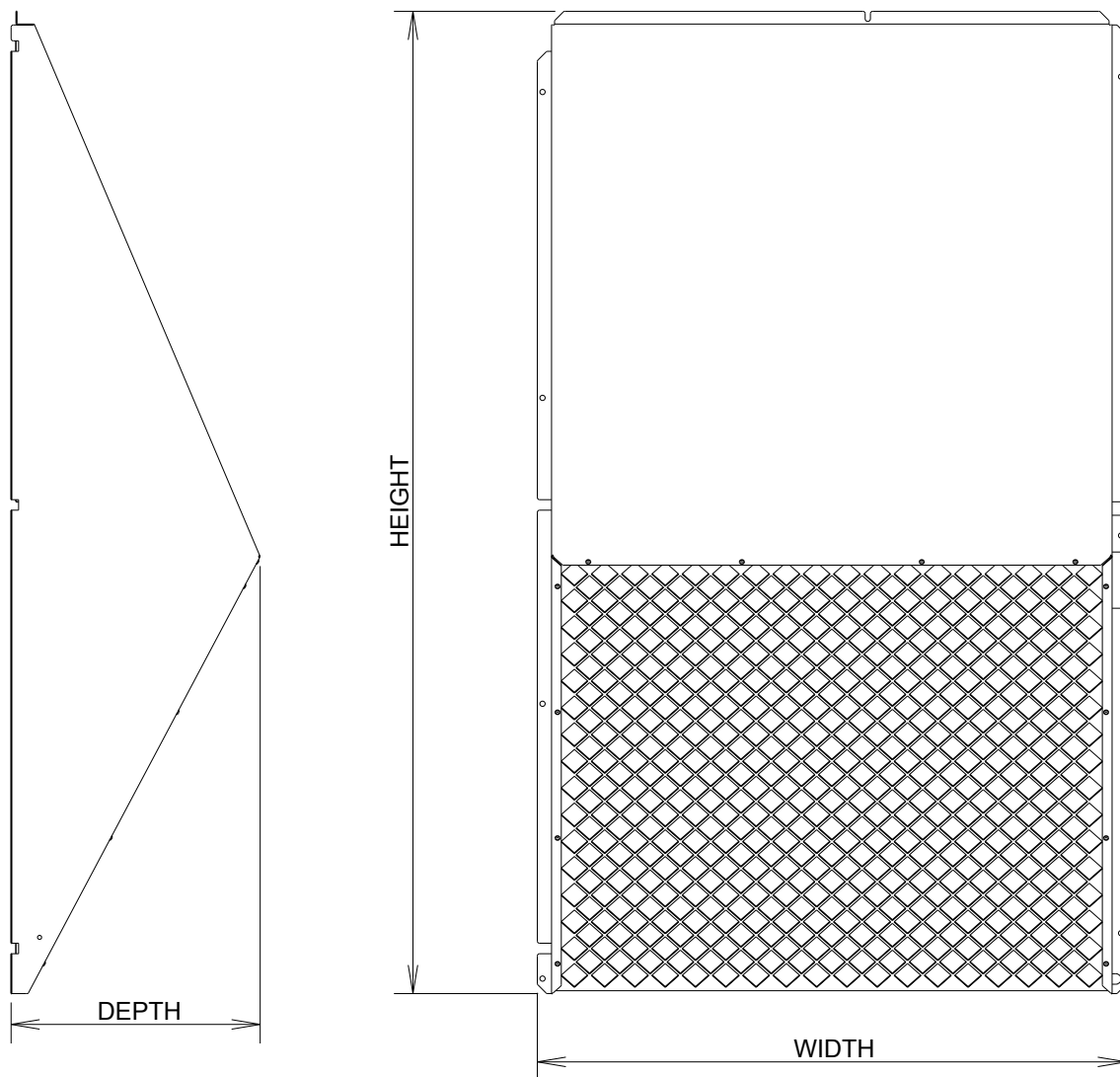
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1. Specifications

1.1. Physical

Material	Powder Coated 20 gauge, G60 galvanized steel
Powder Coat	P1135-G6 Polyester TGIC Erie Powder Coating
	3 mil nominal (+/- 1 mil) uniform thickness over the entire part.
Color	Matches Outdoor Unit
Screen	1 inch (25.4 mm) square hole pattern

1.2. Dimensions



HG-A1, HG-A2, HG-A3, HG-A4, HG-B4, HG-A5, HG-A6, HG-A7, HG-A8, HG-A9

		HG-A1		HG-A2		HG-A3		HG-A6		HG-A9	
		Rear	Side	Rear	Side	Rear	Side	Rear	Side	Rear	Side
Kit	kg	12.1		15.19		14.79)		10.42		7.42	
	(lbs)	(26.68)		(33.48)		(32.61		(22.97)		(16.37)	
Weight	kg	7.49	4.61	9.99	5.20	9.45	5.35	6.75	3.66	4.74	2.69
	(lbs)	(16.51)	(10.17)	(22.02)	(11.46)	(20.83)	(11.79)	(14.89)	(8.08)	(10.45)	(5.92)
Height	mm	965	947	1310	1251	1313	1296	868	868	700	700
	(in)	(37.99)	(37.28)	(51.57)	(49.25)	(51.69)	(51.02)	(34.17)	(34.17)	(27.56)	(27.56)
Width	mm	738	299	786	208	726	207	715	206	738	299
	(in)	(29.06)	(11.77)	(30.94)	(8.19)	(28.58)	(8.15)	(28.15)	(8.11)	(29.06)	(11.77)
Depth	mm	332	326	332	326	332	326	333	326	207	201
	(in)	(13.07)	(12.83)	(13.07)	(12.83)	(13.07)	(12.83)	(13.11)	(12.83)	(8.15)	(7.91)

		HG-A4 / B4	HG-A5	HG-A7	HG-A8
Weight	kg	3.23	3.68	6.39	3.92
	(lbs)	(7.12)	(8.11)	(14.09)	(8.64)
Height	mm	471	551	719	670
	(in)	(18.54)	(21.69)	(28.31)	(26.38)
Width	mm	701	705	821	662
	(in)	(27.6)	(27.76)	(32.32)	(26.06)
Depth	mm	201	201	332	201
	(in)	(7.91)	(7.91)	(13.07)	(7.91)

1.3. Application Chart

Outdoor Unit	Hail Guard Kit								
	HG-A1	HG-A2	HG-A3	HG-B4 ¹	HG-A5	HG-A6	HG-A7	HG-A8	HG-A9
MUFZ-KJ09NAHZ				X					
MUFZ-KJ12NAHZ				X					
MUFZ-KJ15NAHZ							X		
MUFZ-KJ18NAHZ							X		
MUY-D30NA	These outdoor units are not physically adaptable for hail guards.								
MUY-D36NA									
MUY-GL09NA				X					
MUY-GL12NA				X					
MUY-GL15NA				X					
MUY-GL18NA							X		
MUY-GL24NA							X		
MUZ-D30NA	These outdoor units are not physically adaptable for hail guards.								
MUZ-D36NA									
MUZ-FH06NA				X					
MUZ-FH06NAH				X					
MUZ-FH09NA				B or A					
MUZ-FH09NAH				B or A					
MUZ-FH12NA				B or A					
MUZ-FH12NAH				B or A					
MUZ-FH15NA							X		
MUZ-FH15NAH							X		
MUZ-FH18NA							X		
MUZ-FH18NA2							X		
MUZ-FH18NAH2							X		
MUZ-GL09NA				X					
MUZ-GL12NA				X					
MUZ-GL15NA				X					
MUZ-GL18NA							X		
MUZ-GL24NA							X		
MUZ-HM09NA				X					
MUZ-HM12NA				X					
MUZ-HM15NA				X					
MUZ-HM18NA				X					
MUZ-HM24NA							X		
MXZ-2C20NA2								X	
MXZ-2C20NAHZ	X								
MXZ-2C20NAHZ2	X								
MXZ-3C24NA									X
MXZ-3C24NA2									X
MXZ-3C24NAHZ	X								
MXZ-3C24NAHZ2	X								

Outdoor Unit	Hail Guard Kit								
	HG-A1	HG-A2	HG-A3	HG-B4 ¹	HG-A5	HG-A6	HG-A7	HG-A8	HG-A9
MXZ-3C30NA									X
MXZ-3C30NA2									X
MXZ-3C30NAHZ	X								
MXZ-3C30NAHZ2	X								
MXZ-4C36NA									X
MXZ-4C36NA2									X
MXZ-4C36NAHZ		X							
MXZ-5C42NA	X								
MXZ-5C42NA2	X								
MXZ-5C42NAHZ		X							
MXZ-8B48NA			X						
MXZ-8C48NA		X							
MXZ-8C48NAHZ		X							
MXZ-8C60NA		X							
PUMY-P36NKMU1		X							
PUMY-P48NKMU1		X							
PUMY-P60NKMU1		X							
PUY-A12NKA7 (-BS)					X				
PUY-A18NKA7 (-BS)					X				
PUY-A24NHA7 (-BS)						X			
PUY-A30NHA7 (-BS)						X			
PUY-A36NKA7 (-BS)		X							
PUY-A42NKA7 (-BS)		X							
PUZ-A12NKA7 (-BS)					X				
PUZ-A18NKA7 (-BS)					X				
PUZ-A24NHA7 (-BS)						X			
PUZ-A30NHA7 (-BS)						X			
PUZ-A36NKA7 (-BS)		X							
PUZ-A42NKA7 (-BS)		X							
PUZ-HA30NHA5			X						
PUZ-HA36NHA5			X						
PUZ-HA42NKA		X							
SUZ-KA09NA				X					
SUZ-KA12NA				X					
SUZ-KA15NA				X					
SUZ-KA18NA	This outdoor unit is not physically adaptable for hail guards.								

¹B4 is replacing A4. Backwards compatible outdoor unit are indicated by "B or A"

2. Safety Precautions

Carefully read this section, always observe for safety, and securely install the optional parts.

- They include critical contents for safety.
- The following indications show the classifications for danger, and possible consequences following incorrect handling.
- After installation, perform a test run and make sure that there is no abnormality, and ask your customer to keep this installation sheet with the instruction manual at all times. Also ask the customer to transfer these manuals to a new user if the user changes.

Symbols used in the text



WARNING

This symbol denotes incorrect handling could lead to death or serious injury



NOTE

This symbol denotes incorrect handling could lead to injury



WARNING

Ask the dealer or specialist for installation.

- If installed incorrectly by user, water leak, electric shock, fire, etc could result.

Carefully install the panel according to this installation.

- Incorrect installation could cause water leak, electric shock or refrigerant leak.



CAUTION

Do not place polyethylene bags in reach of young children.

- Putting them over the head will block breathing passages, which could result in suffocation

3. Inspect Shipment

Upon receipt of equipment, carefully inspect it for possible damage. Take special care to examine the unit if the carton is damaged. If damage is found, it should be noted on the carrier's freight bill. Damage claims should be filed with the carrier immediately. Claims of shortages should be filed with the seller within 5 days.

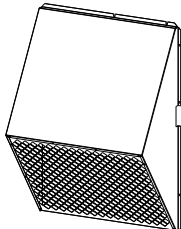
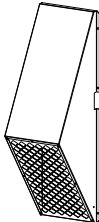

4. Checking Parts



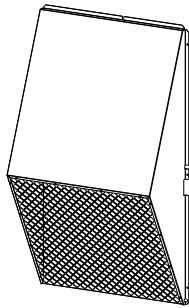
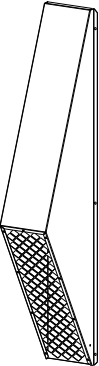

NOTE

Screws for all models are included, therefore some screws will not be used.

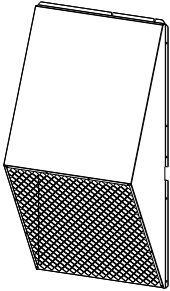
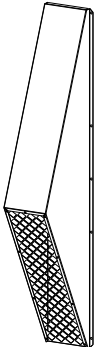

4.1. HG-A1

1 Rear Guard	1 Side Guard	Required Mounting Screws	
		7 for Rear Guard 6 for Side Guard	 M5 x 10

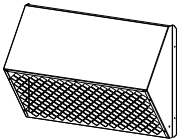

4.2. HG-A2

1 Rear Guard	1 Side Guard	Required Mounting Screws	
		8 for Rear Guard 6 for Side Guard	 M5 x 10

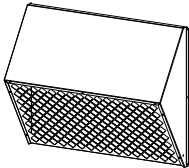

4.3. HG-A3

1 Rear Guard	1 Side Guard	Required Mounting Screws	
		11 for Rear Guard 8 for Side Guard	 M5 x 10

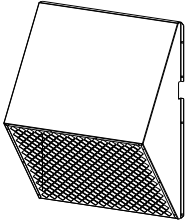


4.4. HG-A4, HG-B4

1 Rear Guard	Side Guard	Required Mounting Screws	
	None	2	 #8 x 1/2

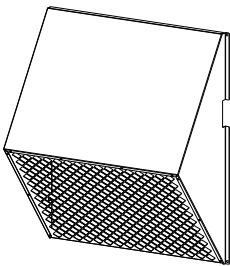

4.5. HG-A5

1 Rear Guard	Side Guard	Required Mounting Screws	
	None	3	 #8 x 3/8 TEKS (self drilling)

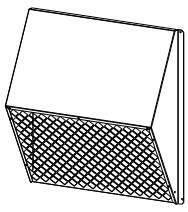


4.6. HG-A6

1 Rear Guard	1 Side Guard	Required Mounting Screws	
		7 for Rear Guard 8 for Side Guard	 M5 x 10

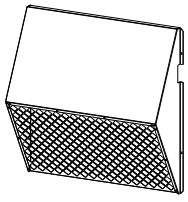
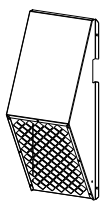

4.7. HG-A7

1 Rear Guard	Side Guard	Required Mounting Screws	
	None	1	 M5 x 10

4.8. HG-A8

1 Rear Guard	Side Guard	Required Mounting Screws		Clip
	None	1	 M5 x 10	

4.9. HG-A9

1 Rear Guard	1 Side Guard	Required Mounting Screws	
		4 for Rear Guard 4 for Side Guard	 M5 x 10

5. Installation Instructions

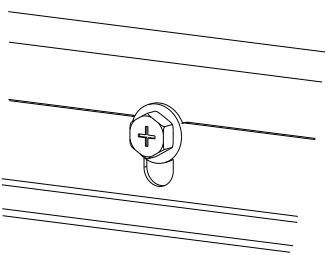


NOTE

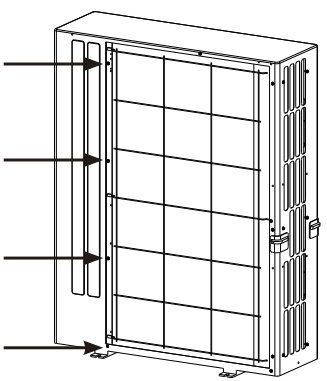
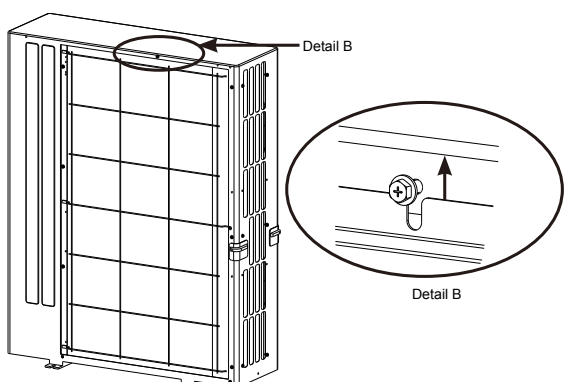
Before installing hail guard, outdoor unit should be secured to the mounting structure. See outdoor unit installation manual.

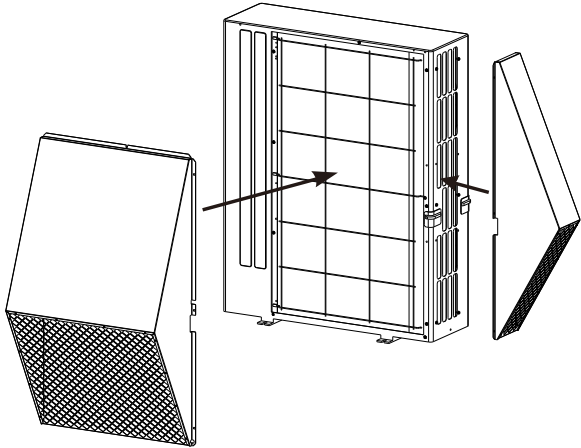
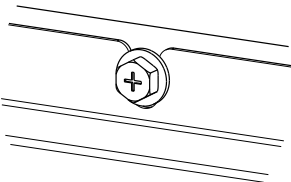
5.1. HG-A1

	Instructions	Illustration
1	Remove the existing screws.	
2	Loosen the two screws in the top panel. Slide the top of the rear hail guard under the screw head and re-tighten enough to support the hail guard as you align with the existing holes on the outdoor unit.	
3	Align rear and side hail guards with existing holes on the outdoor unit and secure with M5 screws provided.	

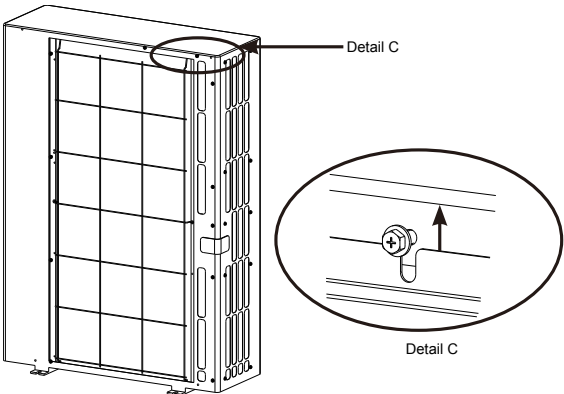
	Instructions	Illustration
4	Fully tighten the top panel screws.	

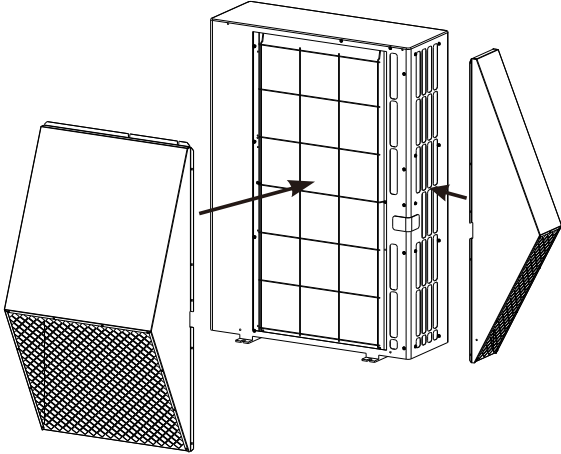
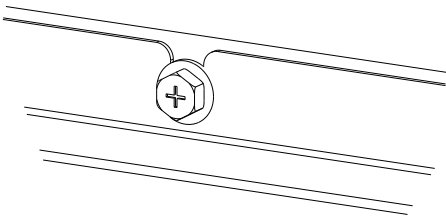
5.2. HG-A2

	Instructions	Illustration
1	Remove the existing screws.	
2	Loosen the screw in the top panel. Slide the top of the rear hail guard under the screw head and re-tighten enough to support the hail guard as you align with the existing holes on the outdoor unit.	

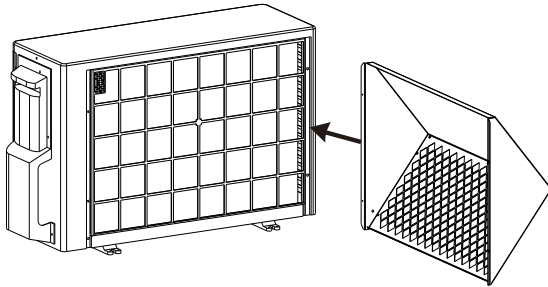
	Instructions	Illustration
3	Align rear and side hail guards with existing holes on the outdoor unit and secure with M5 screws provided.	
4	Fully tighten the top panel.	

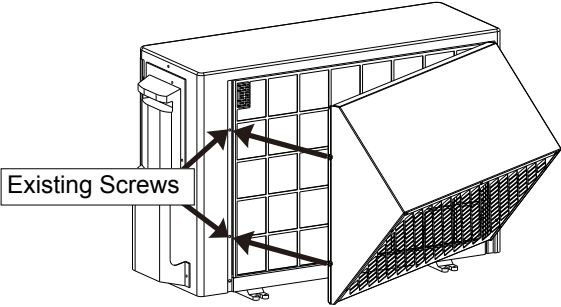
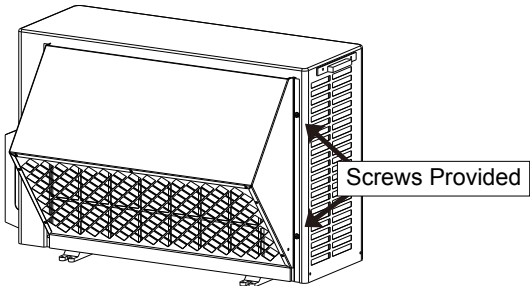
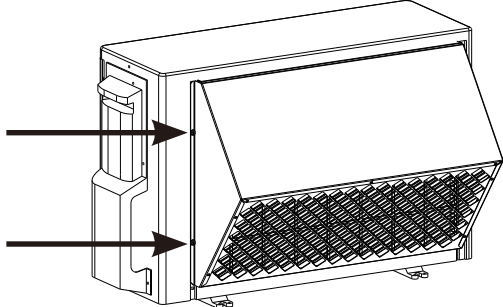
5.3. HG-A3

	Instructions	Illustration
1	Loosen the two screws in the top panel. Slide the top of the rear hail guard under the screw head and re-tighten enough to support the hail guard as you align with the existing holes on the outdoor unit.	

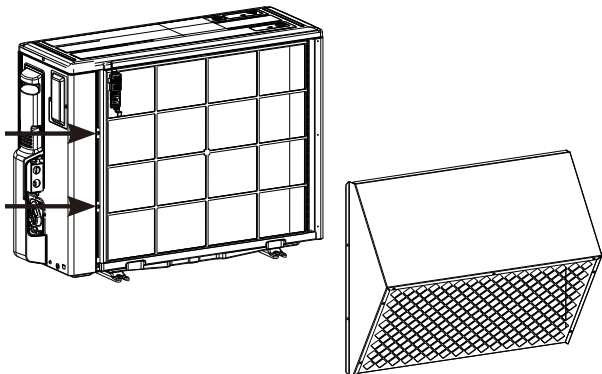
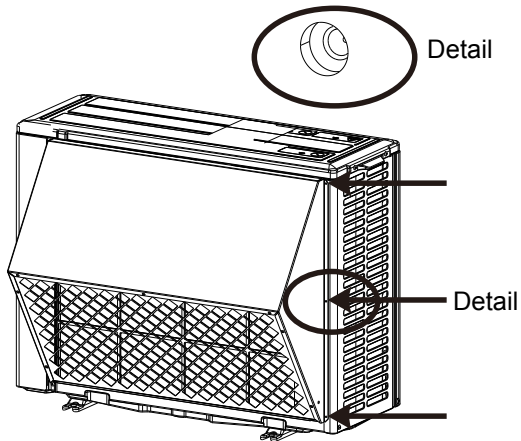
	Instructions	Illustration
2	Align rear and side hail guards with existing holes on the outdoor unit and secure with M5 screws provided.	
3	Fully tighten the top panel.	

5.4. HG-A4 / B4

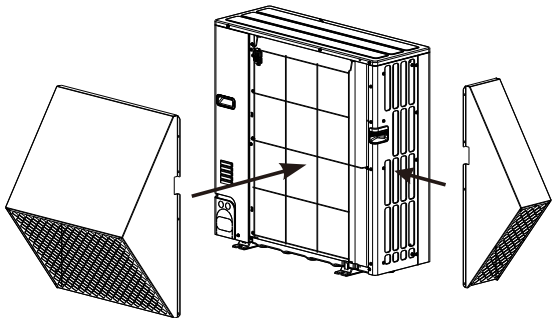
	Instructions	Illustration
1	Insert the right side lip of the hail guard between the right side of the plastic grill and the edge of the outdoor unit cabinet.	

	Instructions	Illustration
2	Rotate the hail guard clockwise and loosely secure the left side with the two existing screws.	 <p>Existing Screws</p>
3	Align the holes on the right side of the hail guard with existing holes on the outdoor unit and secure with (2) #8 x 1/2 screws provided.	 <p>Screws Provided</p>
4	Fully tighten the left side screws.	

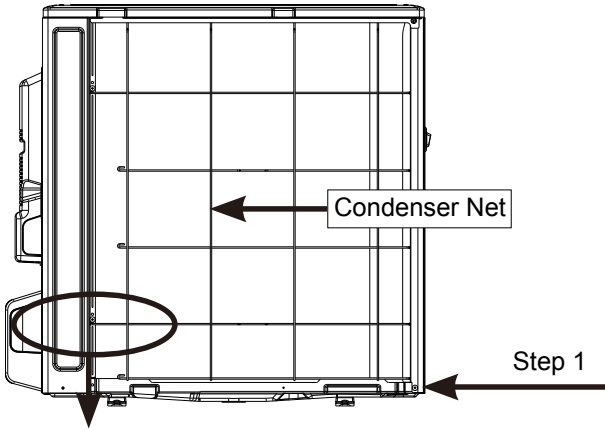
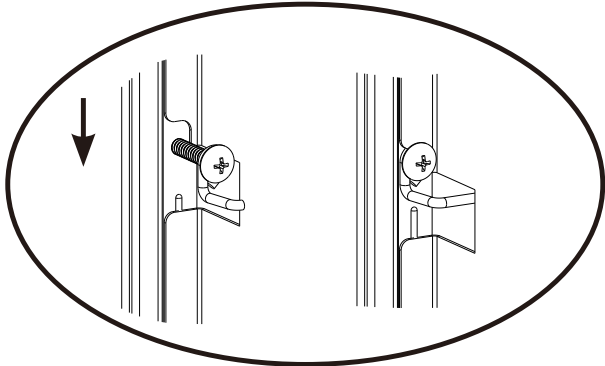
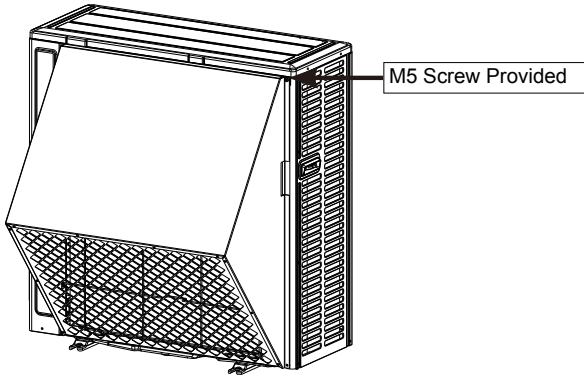
5.5. HG-A5

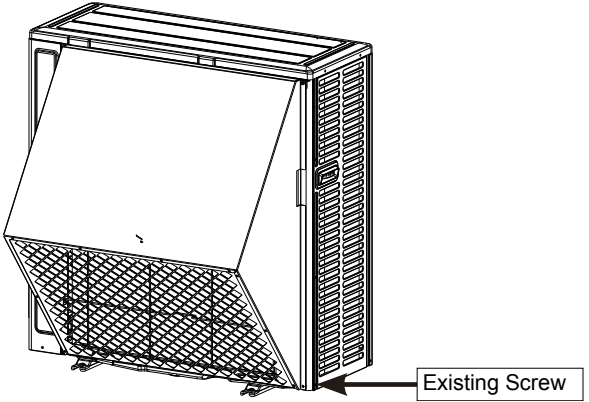
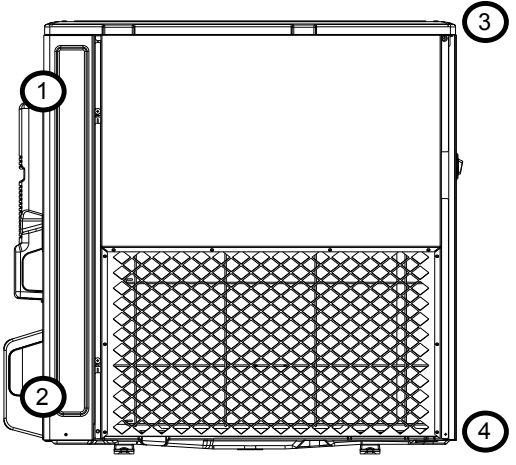
	Instructions	Illustration
1	Secure with two existing screws.	
2	Align holes with cabinet depression and secure with three self drilling screws provided.	

5.6. HG-A6

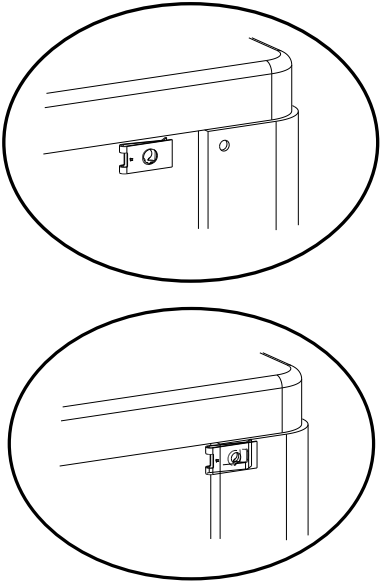
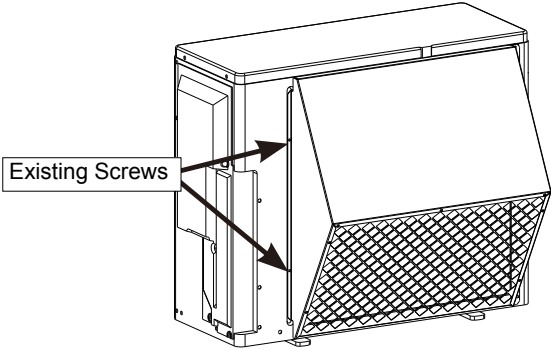
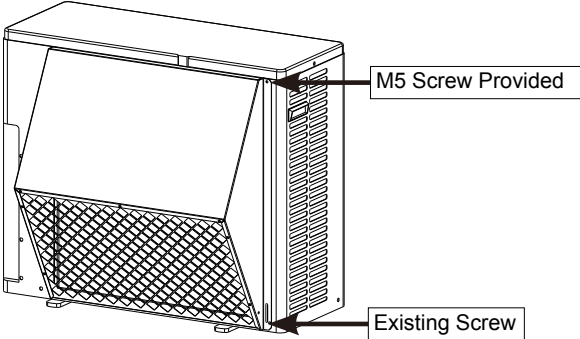
	Instructions	Illustration
1	Align rear and side hail guards with existing holes on the outdoor unit and secure with M5 screws provided.	

5.7. HG-A7

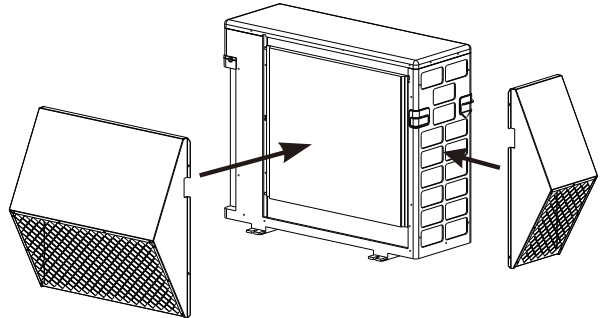
	Instructions	Illustration
1	Remove the bottom right screw and save for step 4.	 <p>Detail D</p>
2	Loosen but not completely remove the screws in the condenser net. Insert the hail guard between the cabinet and condenser net. If needed, slightly move the condenser net away from the cabinet.	<p>Detail D - Detail of Condenser Net Mounting Legs</p> 
3	Align rear and side hail guards with existing holes on the outdoor unit and secure with M5 screw provided.	 <p>M5 Screw Provided</p>

	Instructions	Illustration
4	Align the bottom right and loosely fasten with the screw removed in step 1.	 <p>This illustration shows the bottom right corner of the unit. A screw is being inserted into the bottom right corner to secure the panel. A label 'Existing Screw' points to the screw location.</p>
5	Check alignment and fully tighten in the order indicated.	 <p>This illustration shows the front of the unit with four numbered circles indicating the sequence for tightening screws: 1 (top left), 2 (bottom left), 3 (top right), and 4 (bottom right).</p>

5.8. HG-A8

	Instructions	Illustration
1	Install U-clip	<p>Detail F: Top right back of outdoor unit</p> 
2	Secure left side with the two existing screws.	
3	Secure right side bottom with the existing screw. Secure right side top with the M5 screw provided.	

5.9. HG-A9

	Instructions	Illustration
1	Align rear and side hail guards with existing holes on the outdoor unit and secure with M5 screws provided.	

This product is designed and intended for use in the residential, commercial and light-industrial environment.

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

Manufactured for:
mitsubishi electric us, inc.

www.mitsubishielectric-usa.com

Toll Free: 800-433-4822