Evacuating - Toshiba RAS-M14GAV-E Installation Manual

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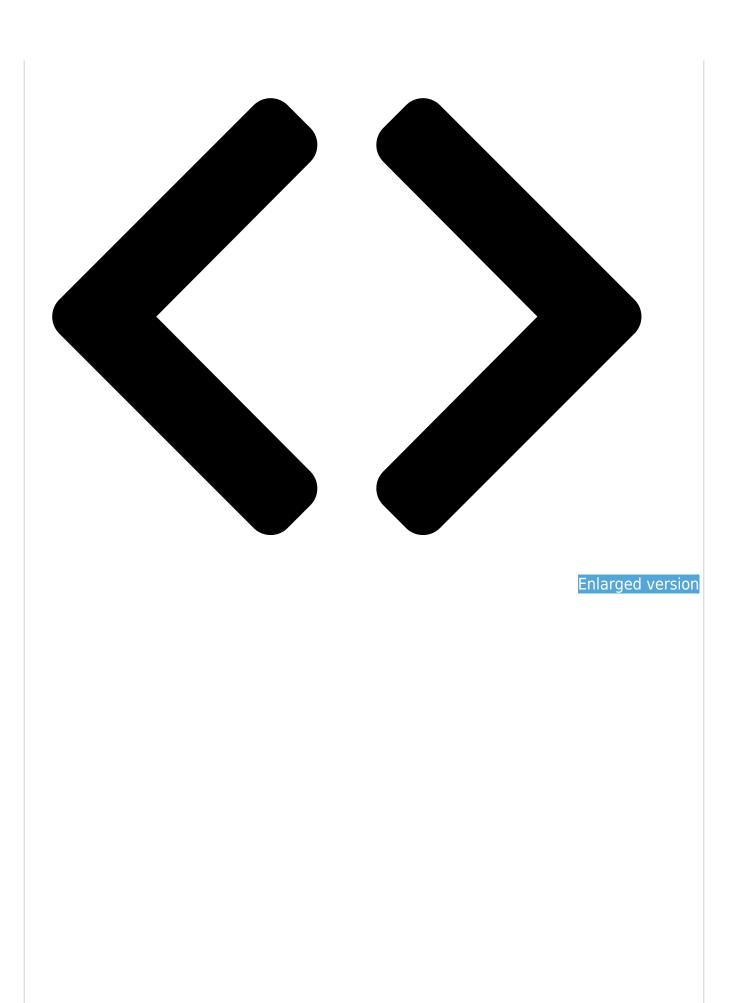
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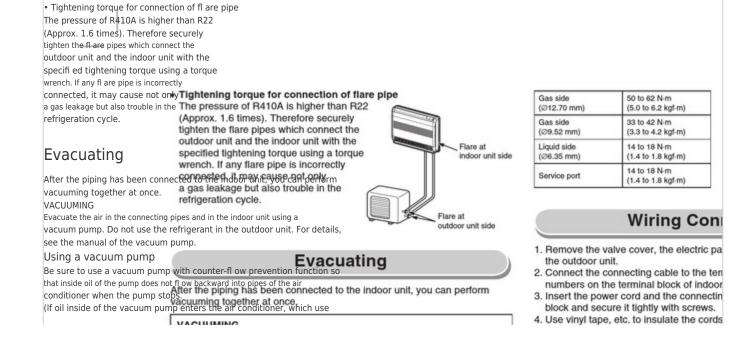
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Bookmarks

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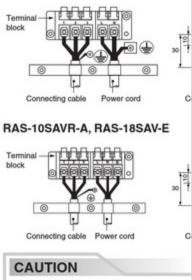




R410A, refrigeration cycle trou	ble may happen.) he manifold valve to the service port of the		
packed valve at gas side.			
2. Connect the charge hose to the			
	side handle of the gauge manifold valve.		
	to start evacuating. Perform evacuating for gth is 20 meters (15 minutes for 20		
meters) (assuming a pump capaci	* of Rawteranna norsele ther continection of flare pipe	Gas side	50 to 62 N·m
that the compound pressure gauge	e repriequed by the country in the reprint	(Ø12.70 mm)	(5.0 to 6.2 kgf-m)
	valventradle petitieneauser maeifold valverrely	Gas side (Ø9.52 mm)	33 to 42 N·m (3.3 to 4.2 kgf·m)
sides).	outdoor unit and the indoor unit with the	Liquid side	14 to 18 N-m
	rorapheißervilghenting torque using a torque indoor unit side	(26.35 mm)	(1.4 to 1.8 kgf-m)
 Securely tighten the caps or Compound pressure gauge 	thereacted transflare pipe is incorrectly connected, it may cause not only	Service port	14 to 18 N-m
-101 kPa (-76 cmHg)	a gas leakage but also trouble in the		(1.4 to 1.8 kgf-m)
Handle Lo Charge hose	refrigeration cycle.		
(For R410A only)	Flare at		Wiring Con
Connecting pipe Packed valve at gas side	outdoor unit side		
Service port (Valve core (Setting pin))		1. Remove the valve	e cover, the electric pa
Packed valve at liquid side	Evacuating	the outdoor unit.	
			ecting cable to the ten erminal block of indoor
KEEP IMPORTANT 5 POINTS F (1) Take away dust and moist	ି କାର୍ଯ୍ୟନ୍ତ ଅଭାନ (main and the indoor unit, you can perform madinaidelog ଅଭାନବଣୀ (main and the indoor unit, you can perform		cord and the connectin
(2) Tighten the connections (b			it tightly with screws.
(3) Evacuate the air in the con	new a vacuum PUMP.		c. to insulate the cords hat they do not touch a
(4) Check gas leak (connected	Figure the air in the connecting pipes and in the indoor unit using a		r cord and the connect
(5) Be sure to fully open the pa	A set the manual of the vacuum pump.	6. Attach the electric	c parts cover and the v
	see the manual of the vacuum pump.		
Open the valve stem until it touc the stopper, refrain from apply	thes the stopper. Once it is in contact with in a stopper of the s		Electrical
	ଆରୁ କାନ୍ଧାର ender the there is necessary. ଆବ ରହଙ୍କାର to severe vactor for the the total several several of the total several of the total several sever		Licothear
Gas side	that inside oil of the pump does not flow backward into pipes of the air	1. The supply voltage	e must be the same a
(Ø12.70 mm) Gas side	conditioner when the pump stops.	conditioner.	
(Ø9.52 mm)	(If oil inside of the vacuum pump enters the air conditioner, which use	2. Prepare the powe	er source for exclusive
Flare at Liquid side	R410A, refrigeration cycle trouble may happen.)	Model	RAS-(B)10UFV R
indoor unit side	 Connect the charge hose from the manifold valve to the service port of the packed valve at gas side. 	moder	series
(Ø6.35 mm)	2. Connect the charge hose to the port of the vacuum pump.	Power source	220-240V ~ 50Hz 22
Service port			
Service port Flare at	3. Open fully the low pressure side handle of the gauge manifold valve.	T OWET BOUICE	220-230V ~ 60Hz 22
Flare at outdoor unit side	4. Operate the vacuum pump to start evacuating. Perform evacuating for	Maximum running	
Flare at outdoor unit side 1. Remove the valve cover, the			220-230V ~ 60Hz 22 8.5A
Flare at outdoor unit side 1. Remove the valve cover, the 2. Connect the connecting cable to 3. Insert the power cord and th	4. Operate the vacuum pump to start evacuating. Perform evacuating for e elabididpbbsindvæsitilitike signinglængfinds 20 meters (15 minutes for 20 b thereforse) (assistentifingdæptnepræspingity of 27 liters per minute). Then confirm ne othateldtingorabjeufodypintestbætganigalreading is –101 kPa (–76 cmHg).	Maximum running current Plug socket & fuse	
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conditioner. RAS-(B)10UFV (5) Be sure to fully open the packed valves before operation.

th of the conr



ction may cause s

- Be sure to comply with local rule on ru to outdoor unit (size of wire and wiring

RAS-(B)13UFV Model series 220-240V ~ 50Hz 220-240V ~ 50Hz Power source 220-230V ~ 60Hz 220-230V ~ 60Hz	Tightening torgue for connection of flare nine		
Maximum running	Tightening torque for connection of flare pipe The pressure of R410A is higher than R22	Gas side (@12.70 mm)	50 to 62 N·m (5.0 to 6.2 kgf·m)
8.5A current	(Approx. 1.6 times). Therefore securely	Gas side	33 to 42 N·m
Plug socket & fuse	tighten the flare pipes which connect the outdoor unit and the indoor unit with the	(Ø9.52 mm)	(3.3 to 4.2 kgf-m)
rating Power cord	specified tightening torque using a torque	Liquid side (Ø6.35 mm)	14 to 18 N-m (1.4 to 1.8 kgf-m)
H07RN-F or 60245 IEC66 (1.5 mm	wrench. If any flare pipe is incorrectly		14 to 18 N·m
Connecting cable H07RN-F or 60245 IEC66 (1.0 mm	connected, it may cause not only a gas leakage but also trouble in the	Service port	(1.4 to 1.8 kgf-m)
manual provided with the mode			
Stripping length of the con	nnecting cable	0	Wiring Con
30 Connecting cable	outdoor unit side		ming con
Power cord		1. Remove the valve	e cover, the electric pa
Connecting cable	Evacuating	the outdoor unit.	ecting cable to the te
້. 30	After the piping has been connected to the indeer unit you can perform		erminal block of indoo
Connecting cable	After the piping has been connected to the indoor unit, you can perform vacuuming together at once.		cord and the connecti
Power cord Connecting cable			it tightly with screws. c. to insulate the cord
CAUTION	VACUUMING Evacuate the air in the connecting pipes and in the indoor unit using a	Locate them so ti	hat they do not touch a
• Wrong wiring connection may	cause some electric a head task the outforger and in the outdoor unit. For details,		cord and the connect parts cover and the
	see the the weeks of the open	o. Attach the electric	parts cover and the
to outdoor unit (size of wire and • Every wire must be connected find	Miring method, etc.). Miya Using a vacuum pump		
 If incorrect or incomplete wiril 	ng is carried out, it will cause an ignition		Electrical
or smoke.	Be sure to use a vacuum pump with counter-flow prevention function so	1 The supply voltar	e must be the same a
	ball uside set with the pump rings rept flow backward into pipes of the air and the name when the pump stops.	conditioner.	e must be the sume t
Connection to fi ved wiring : A swite	In oil inside of the vacuum pump enters the air conditioner, which use	2. Prepare the powe	er source for exclusive
has a contact separation of at least	3 mm must be filtorporated in the	Model	RAS-(B)10UFV
fi xed wiring.	 Connect the charge hose from the manifold valve to the service port of the persided valve at gas side. 	moder	series
Hexagon wrench	2. Connect the charge hose to the port of the vacuum pump.	Power source	220-240V ~ 50Hz 22 220-230V ~ 60Hz 22
is required.	 Open fully the low pressure side handle of the gauge manifold valve. Operate the vacuum pump to start evacuating. Perform evacuating for 		220-230V ~ 60HZ 2
EN	about 15 minutes if the piping length is 20 meters (15 minutes for 20	Maximum running current	8.5A
ES	meters) (assuming a pump capacity of 27 liters per minute). Then confirm		
FR	that the compound pressure gauge reading is -101 kPa (-76 cmHg). 5. Close the low pressure side valve handle of the gauge manifold valve.	Plug socket & fuse rating	
	6. Open fully the valve stem of the packed valves (both gas and liquid	Power cord	H07RN-F or 60
DE	sides). 7. Remove the charging hose from the service port.		HOTHIN-P OF OC
	Securely tighten the caps on the packed valves.	Connecting cable	H07RN-F or 60
PL	Compound pressure gauge Pressure gauge	% When using a mu	Iti-system outdoor un
series		manual provided	with the model conce
series 220-240V ~ 50Hz	-101 kPa (-76 cmHg) Manifold valve	Stripping I	ength of the con
220-230V ~ 60Hz	Handle Lo	outphildi	engar of the con
CZ	(Keep full closed)		र जा मिल मा
11.0A 12.0A	(For R410A only)	block	
RU	Connecting pipe		
16A	Vacuum pump adapter for counter-flow prevention		÷Yes »
CR	(For R410A only)		
or more)		لىپا Connecting cable	Power cord (
or more)	Vacuum	Connecting cause	Power cord
HU	pump	RAS-10SAVR-A,	RAS-18SAV-E
TR			
NL	Packed valve at gas side	Terminal block	
123 LN	Service port (Valve core (Setting pin))		9 9 00 • 9990
GR	Packed valve at liquid side	Y	°¥ ∞
40 40			j∎® ⁺
30 SV	CAUTION	μ	μ
Earth line	• KEEP IMPORTANT 5 POINTS FOR PIPING WORK.	Connecting cable	Power cord 0
Power cord	(1) Take away dust and moisture (inside of the connecting pipes).	CALIFICAL	
FI 123	(2) Tighten the connections (between pipes and unit).(3) Evacuate the air in the connecting pipes using a VACUUM PUMP.	CAUTION	
LN	(4) Check gas leak (connected points).		onnection may cause ply with local rule on r
NO	(5) Be sure to fully open the packed valves before operation.		size of wire and wirin

40 40 30 DK Earth line RO Power cord BG EE LV SK SI

Tightening torque for connection of flare pipe The pressure of R410A is higher than R22 (Approx. 1.6 times). Therefore securely tighten the flare pipes which connect the outdoor unit and the indoor unit with the specified tightening torque using a torque



Gas side	50 to 62 N·m
(Ø12.70 mm)	(5.0 to 6.2 kgf·m)
Gas side	33 to 42 N·m
(Ø9.52 mm)	(3.3 to 4.2 kgf·m)
Liquid side	14 to 18 N-m
(26.35 mm)	(1.4 to 1.8 kof.m)

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