Air conditioner

Installation manual

AC✳✳✳KNPDEH/AC✳✳✳KXAD✳H

- Thank you for purchasing this Samsung air conditioner.
- Before operating this unit, please read this user manual carefully and retain it for future reference.

SAMSUNG

Contents

For information on Samsung's environmental commitments and product specific regulatory obligations e.g. REACH visit: samsung.com/uk/aboutsamsung/samsungelectronics/corporatecitizenship/data_corner.html

Safety Information

Carefully follow the precautions listed as below because they are essential to guarantee the safety of SAMSUNG product.

⚠ WARNING

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

General information

- Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and hydraulic lines. Failure to comply with these instructions or to comply with the requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- The unit contains moving parts, which should always be kept out of the reach of children.
- Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- Do not place containers with liquids or other objects on the unit.
- All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- The packing material and exhaust batteries of the remote control (optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.
- This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), and the Electromagnetic Compatibility Directive (2004/108/EC) and the Machinery Directive (2006/42/EC) of the European Union.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, without supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- For use in Europe: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Safety Information

Installing the unit

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines. Always disassemble the electric lines before the refrigerant tubes.

- Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer).
- After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- Our units must be installed in compliance with the spaces indicated in the manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Power supply line, fuse or circuit breaker

- For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.
- Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- Always verify that a suitable grounding connection is available.
- Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- Always verify that the cut-off and protection switches are suitably dimensioned.
- Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.

⚠ CAUTION

- Make sure that you earth the cables.
  - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- Install the circuit breaker.
  - If the circuit breaker is not installed, electric shock or fire may occur.
- Make sure that the condensed water dripping from the drain hose runs out properly and safely.
- Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.
- Install the indoor unit away from lighting apparatus using the ballast.
  - If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.

- Do not install the air conditioner in following places.
  - Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
  - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet. The copper pipe or connection pipe may corrode and refrigerant may leak.
  - The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
  - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust. The place where thinner or gasoline is handled. Gas may leak and it may cause fire.
- Be sure not to perform power cable modification, midway wiring, and multiple wire connection.
  - It may cause electric shock or fire due to poor connection or insulation and current limit override.
  - When midway wiring is required due to power line damage, refer to "Step 9 Optional: Extending the power cable" in the installation manual.

Installation Procedure

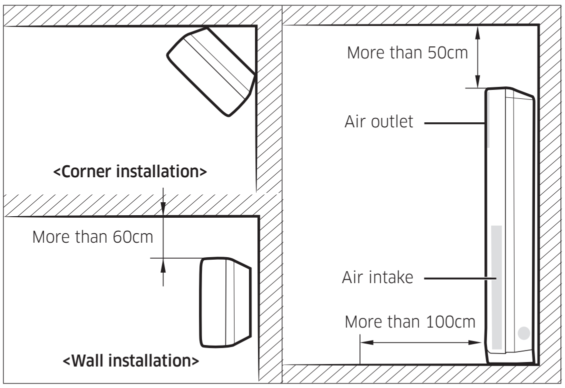
Step 1 Choosing the installation location

Determine the installation location considering the following conditions and obtain the user approval.

Indoor unit

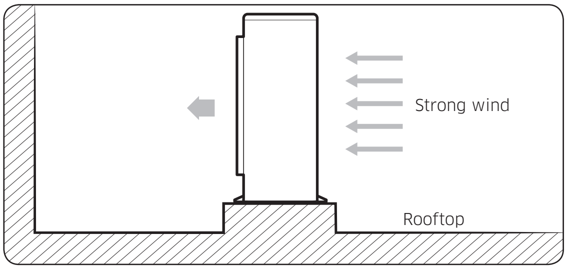
- Install the unit where the pipes and cables can be easily connected to the outdoor unit.
- Install the unit where there are no obstacles against the wind around the air intake and air outlet.
- Install the unit on a flat and stable surface that can hold the unit's weight. Otherwise, the unit may generate noise and vibrations.
- Do not install the unit near highly frequented doors and passages.
- Do not install the unit in a location exposed to direct sunlight.

Top view Side view

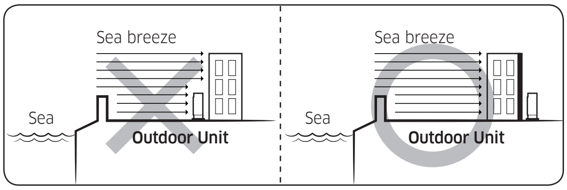


Outdoor unit

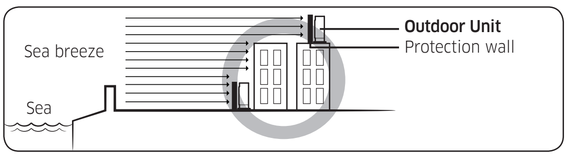
- Install the unit where it will not experience oil leakages, salt collection, gas exposure, or sulfide gas risk, and keep it and safe from other dangers.
- Install the unit where does not disturb your neighbors as they may be affected by the noise or airflow coming from the unit.
- Install the unit where no rainwater can collect on or near it.
- Install the unit in a well-ventilated location away from direct sunlight or strong winds.
- Install the unit where the pipes and cables can be easily connected to the indoor unit.
- Maintain sufficient space for repairs and service.
- Make sure that condensed water dripping from the drain hose is directed away safely.
- If there is any unavoidable reason to install the unit at such a place, take the following measures:
  - When installing the unit at a roadside concentrated with buildings, install it parallel to the road.
  - Install the unit so that the air outlet faces the wall such as rooftop that may be subjected to strong wind.



- When installing the outdoor unit near the seashore, make sure that it is not directly exposed to sea breeze. If you cannot find an adequate place, a protection wall should be constructed.
  - Install the outdoor unit at a place (such as near a building) where it can be protected from sea breeze. Failure to do so may cause damage to the outdoor unit.



- If you cannot avoid a place near the seashore, construct a protection wall around the outdoor unit.



- Construct a protection wall made of solid material such as concrete to block sea breeze. Make sure that its height and width are 1.5 times greater than the size of the outdoor unit. In addition, secure a space larger than 600 mm between the protection wall and the outdoor unit for exhausted air to ventilate.
- Install the unit at a place where water can drain smoothly.
- If you have any difficulty in finding an installation location, contact your manufacturer.
- Be sure to clean sea water and dust on the heat exchanger of the outdoor unit and apply a corrosion inhibitor on it (at least once in a year).

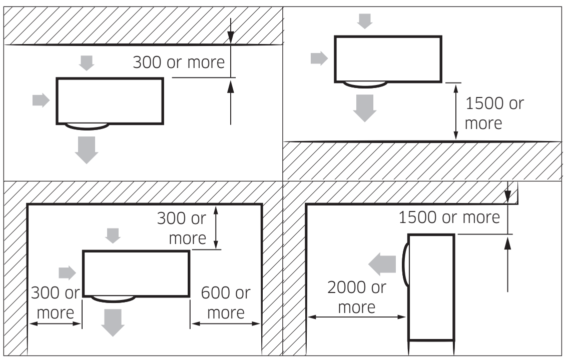
Outdoor unit installation request

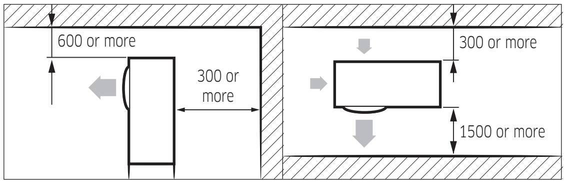
- The suggested space is based on the outdoor temperature of 35°C while in operation. If the outdoor temperature is higher than 35°C, secure more space.
- Be sure to secure sufficient clearance for a person and air flow passage.
- See the clearances and dimensions in Minimum clearances for the outdoor unit (page 7) when installing the outdoor unit.
- If you install multiple outdoor units in the same place, be sure to secure enough space for ventilation and free airflow.
- If the space for ventilation is insufficient, the air conditioner may not perform well as designed.

Minimum clearances for the outdoor unit

When installing 1 outdoor unit

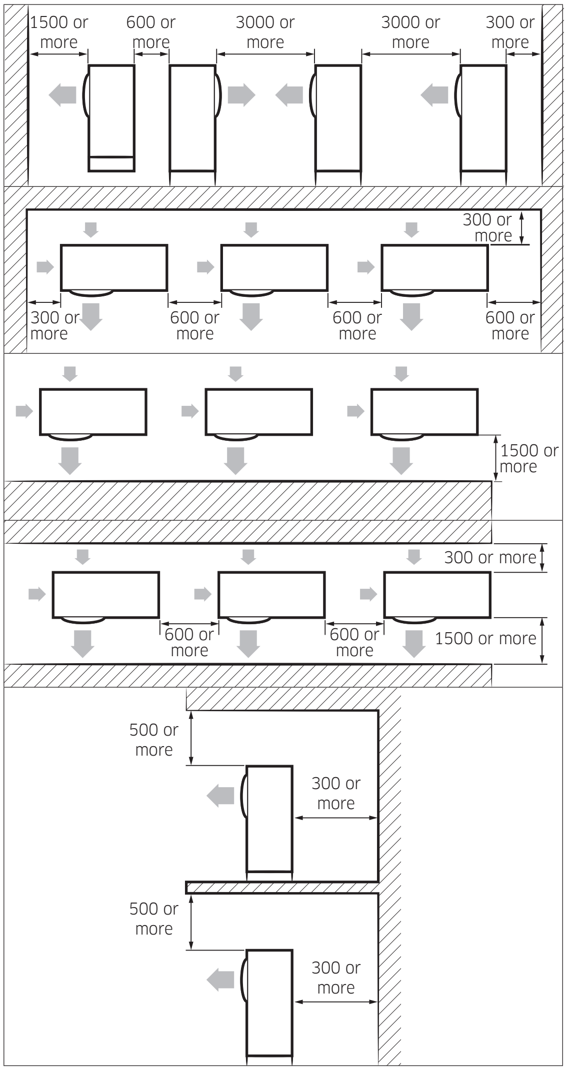
(Unit: mm)





When installing more than 1 outdoor unit

(Unit: mm)



⚠ WARNING

- After installing the outdoor unit, apply rust inhibitor on the internal pipes and heat exchanger.
  - Airborne corrosive gas such as sulfur compounds, hydrogen sulfide, and ammonia, or salty dust may cause pipe corrosion. This corrosion may result in refrigerant leakage.
  - Inspect the outdoor unit at least once a year and re-apply the rust inhibitor where it is damaged or worn out.
- When applying rust inhibitor, be sure to follow the instructions below:
  - Turn off the power before spraying the rust inhibitor.
  - Wear protective goggles and a mask in advance.
  - Clean the dusty surface with clean fabric or paper before spraying the inhibitor.
  - Make sure that wind is blowing from behind the worker.
  - Do not spray on the PCB panel and electric parts.

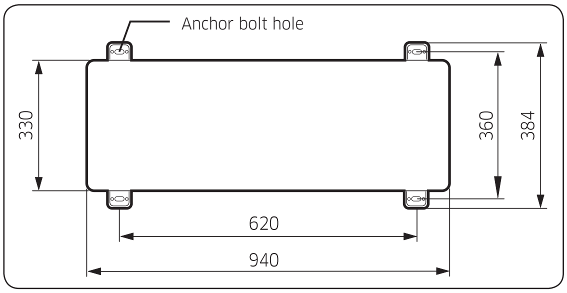
⚠ CAUTION

- Install the indoor unit away from any interference, such as radios, computers, and stereo devices, and also select the place where the electrical wiring work is possible.
  - Keep the unit at least 3 m away from electronic devices that generate electromagnetic waves, and install a protection tube for the main power cable and communication cable.
  - Make sure that there is no device that can generate electromagnetic waves. Otherwise, a malfunction of the control system may occur. For example, the indoor unit remote control sensor may not properly receive signals near fluorescent lamps because of interference.
- Be sure to install the outdoor unit in a safe place where it is not affected by snowfall. The frame should be installed in a place where the air inlet and heat exchanger of the unit are not buried under snow.
- A ventilation system is required when the outdoor unit is installed in a closed space or room, even though R-410A is not poisonous or flammable.
- Install the railing around the outdoor unit to prevent falling when installed at a high place.
- Avoid installation near exhaust pipes and ventilating openings exposed to corrosive gas, sulfur oxide, ammonia, or sulfur gas herbicide. Installations near these places require anticorrosive treatments. Contact the manufacturer to avoid corrosion of copper pipes or soldered parts.
- Depending on the power supply, electric noise or unstable voltage may happen after malfunctions of the electrical parts or the control system particularly on ships or other places using generators.

Fixing the outdoor unit in place

Fix the outdoor unit with anchor bolts. Make sure that the anchor bolts are 20 mm or higher from the base surface.

(Unit: mm)



⚠ CAUTION

- Install a drain outlet at the lowest end around the base for the outdoor unit drainage.
- When installing the outdoor unit on the roof, waterproof the unit and check ceiling strength.

Step 2 Unpacking

Unpacking the indoor unit

1. Open the indoor unit package.
2. Remove the top and middle cushions.
3. Remove the bottom cushion.

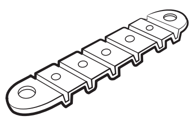
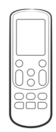
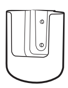
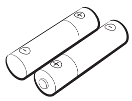
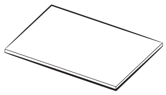
Unpacking the outdoor unit

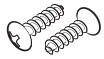
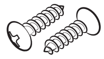
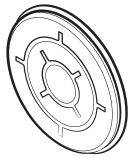
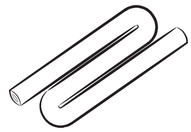
1. Pull out the outdoor unit from the package.
2. Remove the top cushion.
3. Remove the 4 screws from the wooden pallet.
4. Remove the wooden pallet.

Step 3 Checking and preparing accessories

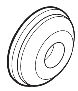
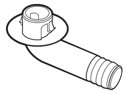
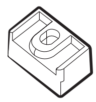
The following accessories are supplied with the air conditioner. Their type and quantity may differ depending on the specifications.

Accessories in the indoor unit package

Fixing bracket for indoor unit (1)	Remote control (1)
	
MANUAL (2)	Remote control holder (1)
	
Batteries for remote control (2)	Insulation for piping(1)
	

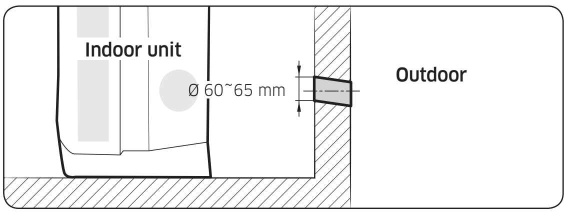
M4 X L12 screws (4)	M4 X L14 screws (4)
	
Pipe outlet protection rubber (1)	Insulation for drain hose (1)
	

Accessories in the outdoor unit package

Drain cap (3)	Drain plug out (1)
	
Rubber leg (4)	
	

Step 4 Drilling a hole through a wall

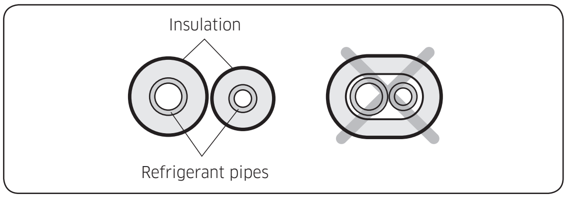
1. Determine the position of a 60 to 65 mm hole considering possible directions of the pipe bundle and minimum distances between the hole and installation plate.
2. Drill the hole that slopes slightly downward (15°).



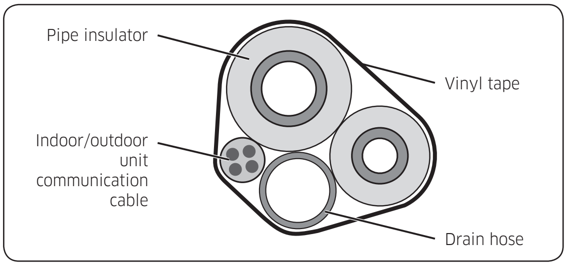
Installation Procedure

Step 5 Taping the pipes, cables, and drain hose

1 Wrap the refrigerant pipes with the provided insulation. This wrapping minimises condensation.



2 Wind the refrigerant pipes, power cable, communication cable, and drain hose with vinyl tape to make a pipe bundle.



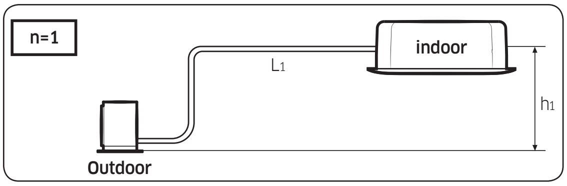
NOTE

- Be sure to insulate the pipes without gaps or cracks, and use adhesive between the connecting parts of the insulation to prevent moisture from entering.
- When bending the pipe, try to secure a large bending radius (over 100 mm) to prevent the copper pipe from distorting.
- Use the polyethylene or EPDM foam insulation with a thickness over 7 mm.
- If pipes are installed in a place with humidity over 80% (such as in a building site pit, basement, seashore, near hot springs, or lakes), use an insulation of a thickness over 10 mm.
- Make sure that the thickness of the insulation does not get thinner on the pipe's bending area.
- When the insulation thickness becomes thinner, use extra insulation to maintain thickness.
- When installing the pipe hanger, use extra PE- foam insulation (over 5 mm) to make the width of the insulation 3 times wider than the hanger. Do not use cable ties as a pipe hanger.

Step 6 Connecting the refrigerant pipes

NOTE:
MINIMUM pipe length is 5 meters

Items	Maximum allowable length	
Outdoor unit models	AC100KXADEH	AC140KXADGH
Main pipe (L1)	50 m	75 m
Max. height difference between outdoor and indoor units (h1)	30 m	30 m

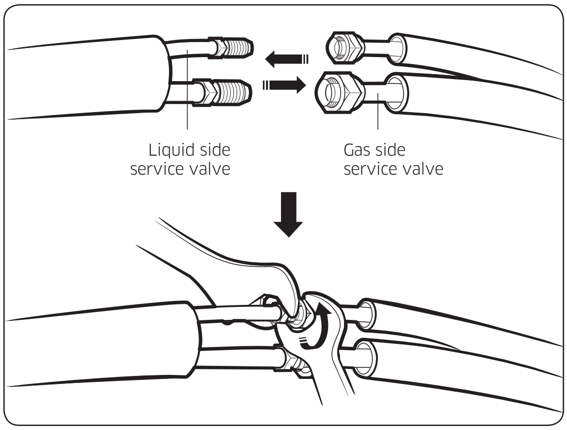


- Temper grade and minimum thickness of the refrigerant pipe

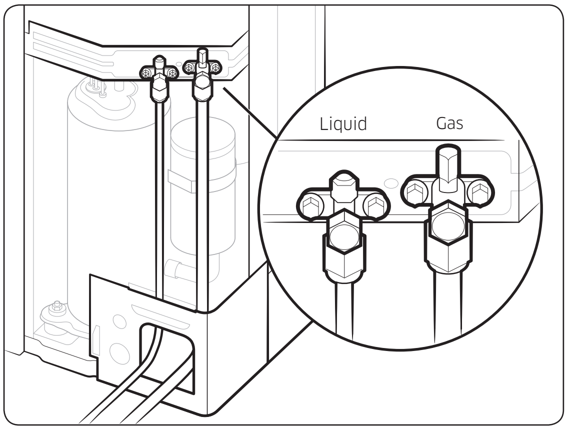
Outer diameter [mm]	Minimum thickness [mm]	Temper grade
ø6.35	0.7	C1220T-O
ø9.52	0.7	
ø12.70	0.8	
ø15.88	1.0	
ø15.88	0.8	C1220T-1/2H OR C1220T-H
ø19.05	0.9	
ø22.23	0.9	

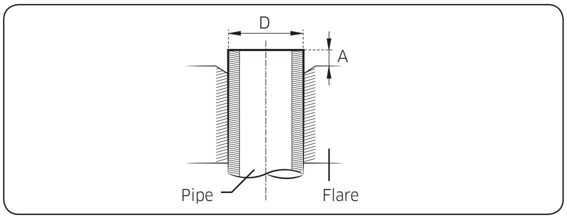
1 Connect each assembly pipe to the appropriate valves on the indoor and outdoor units and fasten the flare nuts.
2 As depicted in the illustration below, tighten the flare nut manually, and then apply the following torque with a torque wrench.

Indoor unit



Outdoor unit





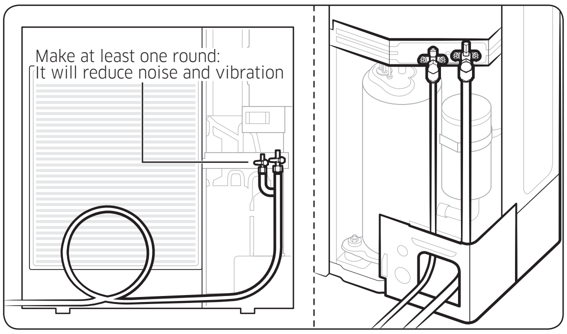
Outer Diameter (D, mm)	Fastening torque (N·m)	Depth (A, mm)
6.35	14 to 18	1.3
9.52	34 to 42	1.8
12.7	49 to 61	2
15.88	68 to 82	2.2
19.05	100 to 120	2.2

⚠ WARNING

- During installation, make sure that there is no gas leakage. When collecting refrigerant, first stop the compressor. If the refrigerant pipe is not properly connected and compressor runs with the service valve open, the pipe takes in air and the pressure rises, which may cause explosion or injury.

⚠ CAUTION

- Be sure to use C1220T-1/2H (Semi-hard) pipe for more than Ø19.05 mm. If you use C1220T-O (Soft) pipe for Ø19.05 mm, the pipe may be broken, which can result in an injury.



- The appearance of the unit may be different from the diagram depending on the model.

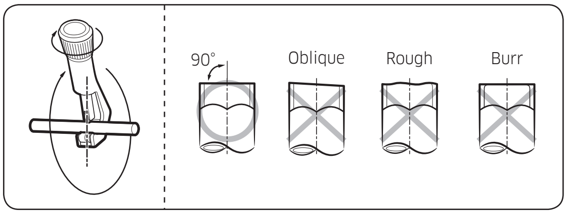
Installation Procedure

Installation Procedure

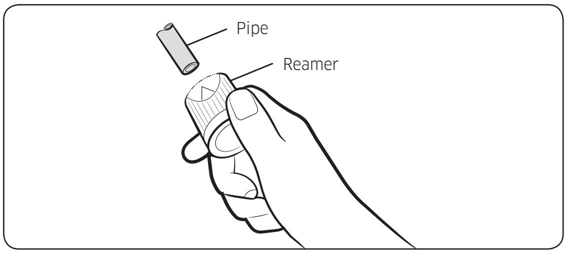
Step 7 Optional: Cutting and flaring the pipes

1 Make sure that you have the required tools; pipe cutter, reamer, flaring tool, and pipe holder.

2 If you want to shorten the pipes, cut it with a pipe cutter, making sure that the cut edge remains at a 90° angle to the side of the pipe. See the illustrations below for the correct edge cut.

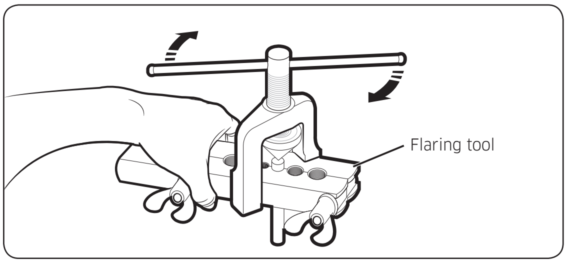


3 To prevent gas leakage, remove all burrs at the cut edge of the pipe with a reamer.

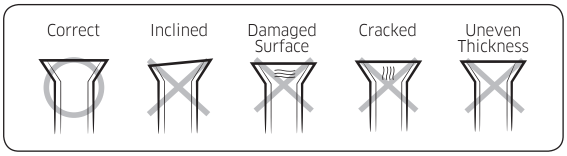


4 Slide a flare nut onto the pipe.

5 Modify the flare with a flaring tool.



6 Check that the flaring has been properly made, referring to the illustrations below.



Step 8 Connecting the power and communication cables

Electrical work must be done by the certified personnel.

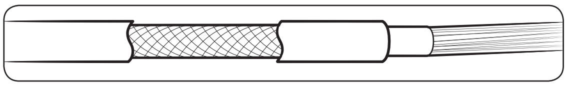
- Wiring work should be performed in compliance with related regulations following technical specifications and installation guide.
- Be sure to install an exclusive power supply. If you use a power strip for multiple electrical connections, there is a risk of electric shock or fire.
- Be sure to install a circuit breaker with a rated current sensitivity of over 30 mA.
- Fasten the screws on the terminal block to be within the rated range and so that they do not loosen.
- Be sure to connect the ground wire. Install the power wire and make sure it is shorter than 50 m. If the length of the power wire exceeds 50 m, the product may not work properly or the wire may be damaged.

Outdoor-to-indoor power and communication cables specifications

Indoor power supply		
Power supply	Max/Min (V)	Indoor power cable
1Φ, 220-240V, 50 Hz	±10%	2.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		

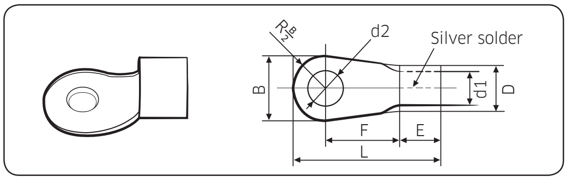
NOTE

- For outdoor use, the power supply cords of the appliances must not be lighter than the polychloroprene sheathed flexible cord. (Code designation IEC: 60245 IEC 57 / CENELEC: H05RN-F or IEC: 60245 IEC66 / CENELEC H07RN-F)
- When installing the indoor unit in a computer room or net work room, use the double shielded (tape aluminium / polyester braid + copper) cable of FROHH2R type.



⚠ CAUTION

- Use rated cables or products only, with heat resistance over 105°C, as well as properly rated switches or fuses in the cabinet panel.
- Make sure that the cables connected do not produce sparks around the auxiliary power switch or that they are not installed in a place subject to high temperature. High ambient temperature decreases allowable current.
- Install the auxiliary power switch in a dry place, install the panel board or electrical component box, and then install the circuit breaker in the panel board.
- When connecting the main power cable, press the cable to the terminal for a secure connection.
- Select a ring terminal for use.



Thickness of the wire (mm^2)	B (mm)	d2 (mm)
2.5	Less than 9.5	More than 4.5
4	Less than 9.5	More than 4.5
6	Less than 9.5	More than 4.5
10	Less than 15	More than 8.4

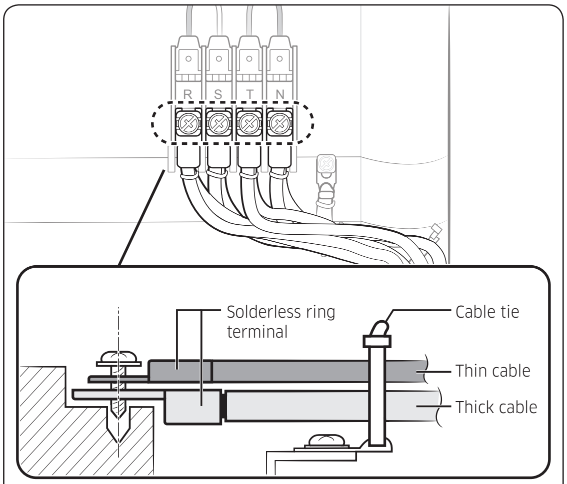
Connecting the cable to the power terminal

Connect the cables to the terminal board with the ring terminals.

NOTE

- Be sure to use the certified and rated cables and firmly connect them without applying any external force to the ring terminal.
- Connect with a driver and wrench that can apply the rated torque to the screws.
- Connect the terminal screws in compliance with the rated tightening torques.
- If the terminal is loose, a fire may occur, caused by arcing electricity. If the terminal is connected too firmly, the terminal may be damaged.

Screw	Tightening torque for terminal (kgf•cm)
M3	5 to 7.5
M3.5	8 to 12
M4	12 to 18
M5	20 to 30
M6	25 to 37.5



When connecting two cables to a ring terminal, separate the ring terminal up or down to prevent it from getting loose. Place the thin cable upward and the thick cable downward. Fix the power cables with a cable tie.

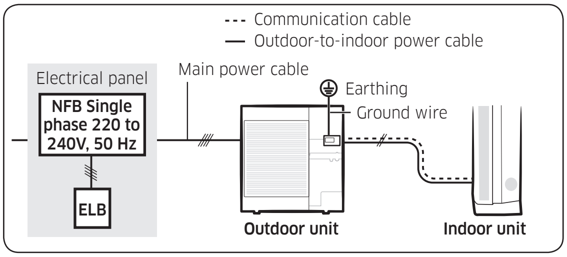
Connecting the cables

AC100KXADEH

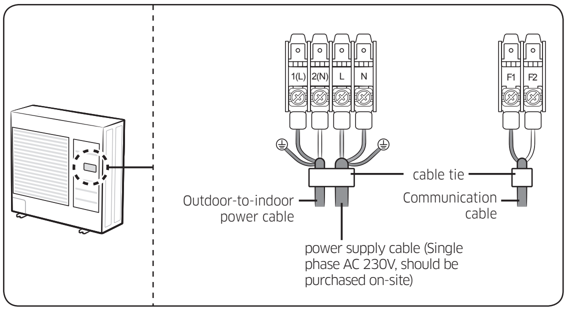
- This product uses a single phase power, with 220 to 240V supply.
- When connecting the outdoor-to-indoor power cables, be sure to match the numbers (or letters) between the outdoor and indoor units. Connect the communication cable to the connector included in the electrical component box for each unit. When the outdoor-to-indoor power cables are connected incorrectly, a malfunction of the product may occur.
- When connecting the communication and outdoor-to-indoor power cables, make sure these cables do not touch the service valve on the refrigerant pipe on the gas side or the pipes without proper insulation. Fix the outdoor-to-indoor power cables to the insulated pipes.
- Be sure to comply with the wiring standards, as there may be a risk of fire.
- Make sure to install the circuit breaker firmly inside the electrical component box.

Installation Procedure

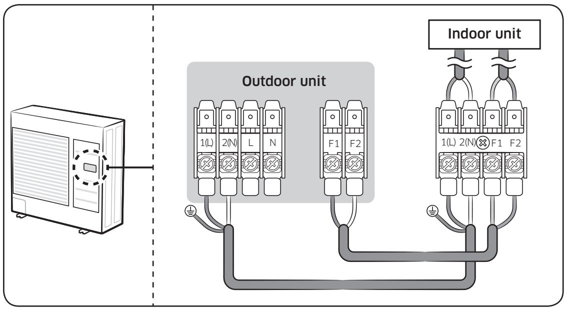
Entire system diagram



Power wiring diagram



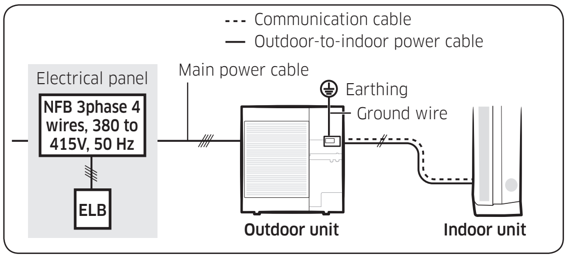
Indoor and outdoor unit connection diagram



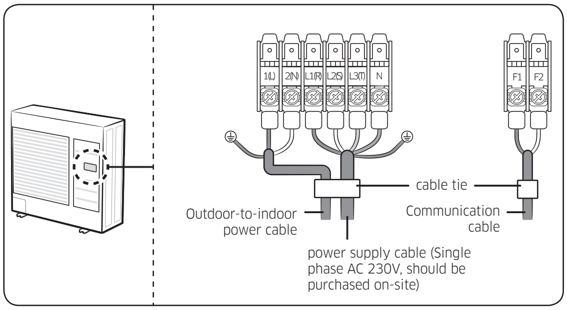
AC140KXADGH

- This product uses a 3-phase 4-wire electrical system, with 380 to 415V supply.
- When connecting the outdoor-to-indoor power cables, be sure to match the numbers (or letters) between the outdoor and indoor units. Connect the communication cable to the connector included in the electrical component box for each unit. When the outdoor-to-indoor power cables are connected incorrectly, a malfunction of the product may occur.
- When connecting the communication and outdoor-to-indoor power cables, make sure these cables do not touch the service valve on the refrigerant pipe on the gas side or the pipes, without proper insulation. Fix the outdoor-to-indoor power cables to the insulated pipes.
- Make sure to comply with the wiring standards, as there may be a risk of fire.
- Make sure to install the circuit breaker firmly inside the electrical component box.
- Install a 3-phase 4-wire circuit breaker.
- When using the power (R, S, T, N) with the NFB (overcurrent breaker), be sure to connect the main power cable (R, S, T, N) to the R, S, T and N terminal on the outdoor unit.

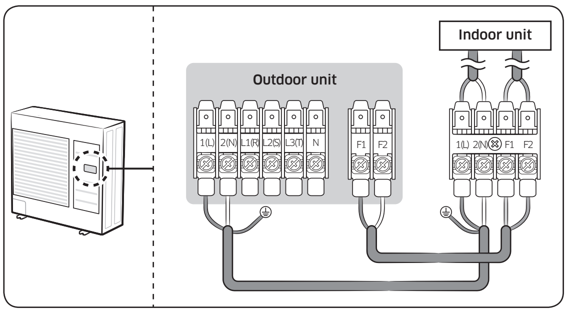
Entire system diagram



Power wiring diagram



Indoor and outdoor unit connection diagram



Main power cable specifications

The power cable is not supplied with air conditioner.

- Select the power supply cable in accordance with relevant local and national regulations.
- Wire size must comply with the applicable local and national code.
- Specifications for local wiring power cord and branch wiring are in compliance with local cord.

Model		Outdoor unit				Input current (Amperes)				Power supply	
Outdoor unit	Indoor unit	Rated		Voltage Range		Outdoor(Down_Amp)		Indoor	Total	MCA	MFA
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC100KXADEH	AC100KNPDEH	50	220-240	198	264	21.7	21.7	1.5	23.2	23.2	29.0
AC140KXADGH	AC140KXPDEH	50	380-415	342	456.5	14.6	14.6	16.1	16.1	16.1	16.1

NOTE

1 Voltage range

- Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits

2 Maximum allowable voltage variation between phases is 2%.

3 Wire size & type must comply with the applicable local and national code.

- Wire size: Based on the value of MCA.
- Wire type: 60245 IEC57(IEC) or H05RN-F(CENELEC) grade or more.

4 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

5 MCA represents maximum input current.

- MFA represents capacity which may accept MCA
- Abbreviations

  MCA: Min. Circuit Amps. (A)

  MFA: Max. Fuse Amps. (A)

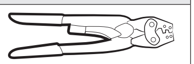
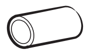
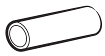
6 This equipment complies with IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to Ssc (*2) at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power Ssc greater than or equal to Ssc(*2).

MODEL	Ssc[MVA]
AC100KXADEH	4.03
AC140KXADGH	3.12

Installation Procedure

Step 9 Optional: Extending the power cable

1 Prepare the following tools.

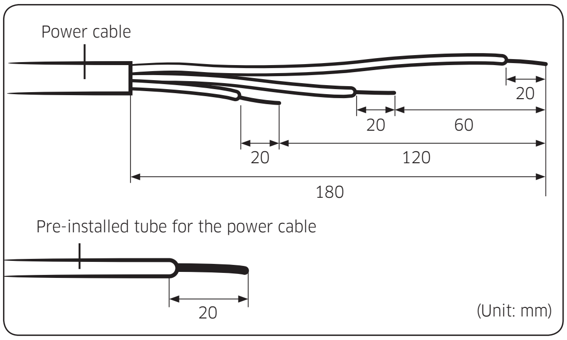
Tools	Spec	Shape
Crimping pliers	MH-14	
Connection sleeve (mm)	20 x Ø6.5 (HxOD)	
Insulation tape	Width 19 mm	
Contraction tube (mm)	70 x Ø8.0 (LxOD)	

2 As shown in the figure, peel off the shields from the rubber and wire of the power cable.

- Peel off 20 mm of cable shields from the pre-installed tube.

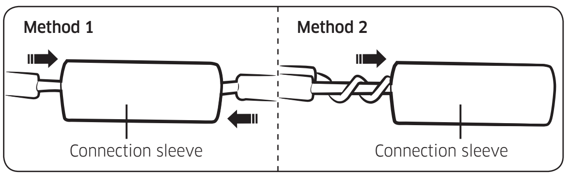
⚠ CAUTION

- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- After peeling off cable wires from the pre-installed tube, insert a contraction tube.



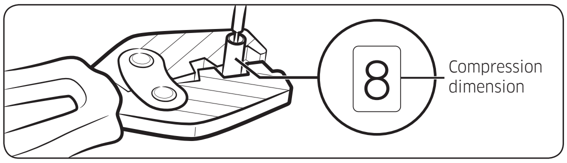
3 Insert both sides of core wire of the power cable into the connection sleeve.

- Method 1: Push the core wire into the sleeve from both sides.
- Method 2: Twist the wire cores together and push it into the sleeve.

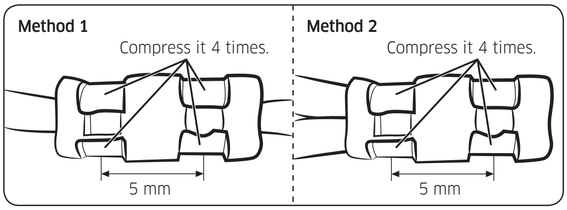


4 Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.

- The compression dimension should be 8.0.

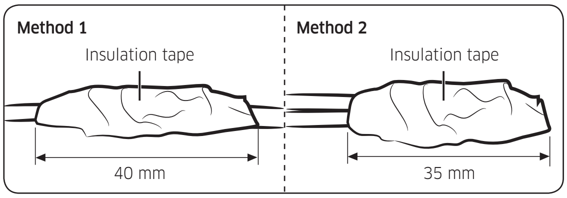


- After compressing it, pull both sides of the wire to make sure it is firmly pressed.

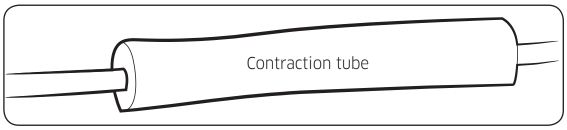


5 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.

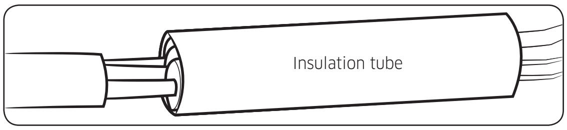
Three or more layers of insulation are required.



6 Apply heat to the contraction tube to contract it.



7 After tube contraction work is completed, wrap it with the insulation tape to finish.

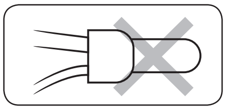


⚠ CAUTION

- Make sure that the connection parts are not exposed to outside.
- Be sure to use insulation tape and a contraction tube made of approved reinforced insulating materials that have the same level of withstand voltage with the power cable. (Comply with the local regulations on extensions.)

⚠ WARNING

- In case of extending the electric wire, DO NOT use a round-shaped pressing socket.
  - Incomplete wire connections can cause electric shock or a fire.



Step 10 Checking the earthing

If the power distribution circuit does not have a earthing or the earthing does not comply with specifications, an earthing electrode must be installed. The corresponding accessories are not supplied with the air conditioner.

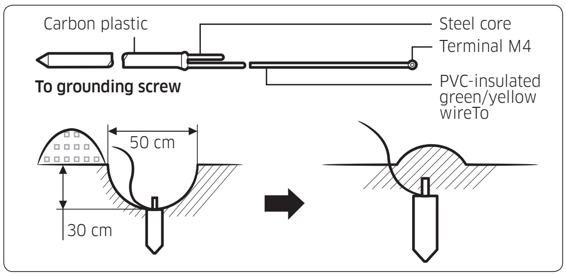
1 Select an earthing electrode that complies with the specifications given in the illustration.

2 Connect the flexible hose to the flexible hose port.

- In damp hard soil rather than loose sandy or gravel soil that has a higher earthing resistance.
- Away from underground structures or facilities, such as gas pipes, water pipes, telephone lines and underground cables.
- At least two metres away from a lightening conductor earthing electrode and its cable.

NOTE

- The earthing wire for the telephone line cannot be used to ground the air conditioner.



3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.

4 Install a green/yellow coloured earthing wire:

- If the earthing wire is too short, connect an extension lead in a mechanical way and wrap it with insulating tape (do not bury the connection).
- Secure the earthing wire in position with staples.

NOTE

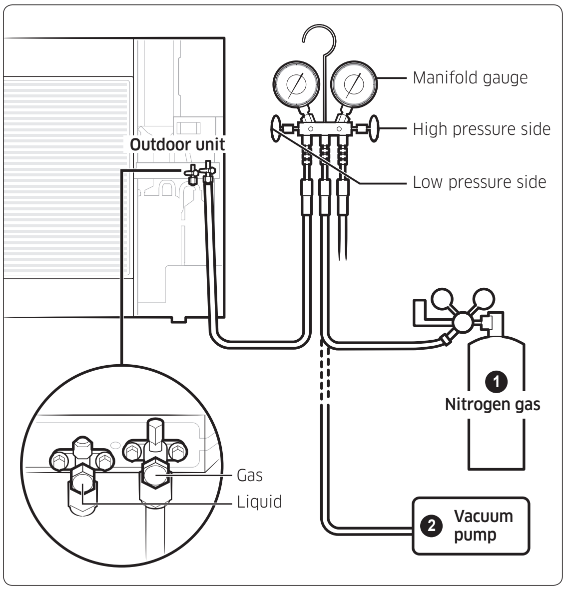
- If the earthing electrode is installed in an area with heavy traffic, its wire must be connected securely.

5 Carefully check the installation by measuring the earthing resistance with a earth resistance tester. If the resistance is above the required level, drive the electrode deeper into the ground or increase the number of earthing electrodes.

6 Connect the earthing wire to the electrical component box inside of the outdoor unit.

Step 11 Performing gas leakage test

Use nitrogen gas at a pressure range between 0.2 and 4.1 MPa when testing the gas leakage. If you apply pressure at over 4.1 MPa, the refrigerant pipes may be damaged.



Installation Procedure

1 Connect the charging hose of low pressure side of manifold gauge to the packed valve having a service port as shown at the figure.

NOTE

- The designs and shape are subject to change according to the model.

2 Open the valve of the low pressure side (A) of the manifold gauge anticlockwise.
3 Connect the manifold gauge to the nitrogen gas.
4 Apply nitrogen gas.
5 Check the change of pressure with a pressure regulator.
6 Check the gas leakage at the connection part or brazed part by using soap water.
7 Open the manifold gauge to discharge nitrogen.

Step 12 Evacuating the air

1 Connect the manifold gauge to a vacuum pump.
2 Purge the air from the system using the vacuum pump for about 30 minutes.
- Make sure that pressure gauge shows -0.1006 Mpa after about 30 minutes.
- Use a vacuum pump that is at least 140 l/min in capacity.
- Make sure that vacuuming timing is longer when the piping gets longer.
- Pressure will not drop even after 5 minutes of vacuuming when there is moisture within the pipe. In this case, apply nitrogen gas again, and then purge the air again.

Step 13 Charging the refrigerant

Important information regulation regarding the refrigerant used

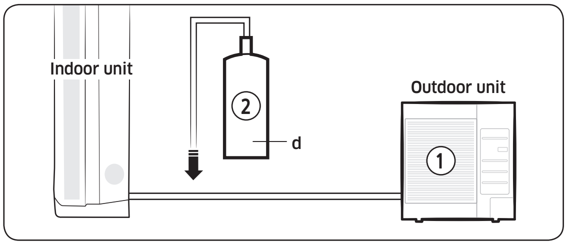
This product contains fluorinated greenhouse gases. Do not vent gases into the atmosphere.

CAUTION

- Inform user if system contains 5 tCO_2e or more of fluorinated greenhouse gases. In this case, it has to be checked for leakage at least once every 12 months, according to regulation n° 517/2014. This activity has to be covered by qualified personnel only. In case situation above (5 tCO_2e or more of R-410A), installer (or recognised person which has responsability for final check) has to provide a maintenance book, with all the information recorded according to REGULATION (EU) N° 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on certain fluorinated greenhouse gases.

Please fill in the following with indelible ink on the refrigerant charge label supplied with the product and on this manual.

- 1 : The factory refrigerant charge of the product.
- 2 : The additional refrigerant amount charged in the field.
- 1 + 2 : The total refrigerant charge.



Unit	kg	tCO_2e
1, a		
2, b		
1 + 2, C		

Refrigerant type	GWP value
R-410A	2088

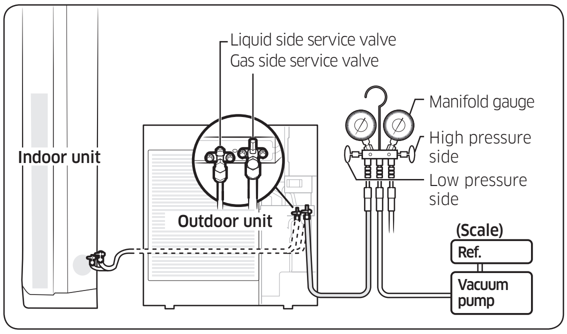
- GWP=Global Warming Potential
- Calculating tCO_2e : kg x GWP / 1000

1 Measure the quantity of refrigerant depending on the length of the liquid side pipe.

NOTE

· When the pipe length exceeds the minimum pipe length of 5 m, charge refrigerant according to the increased length. Do not charge refrigerant by assuming the quantity through the pressure gauge. When the pipe length is shorter than the standard, you do not need to charge refrigerant.

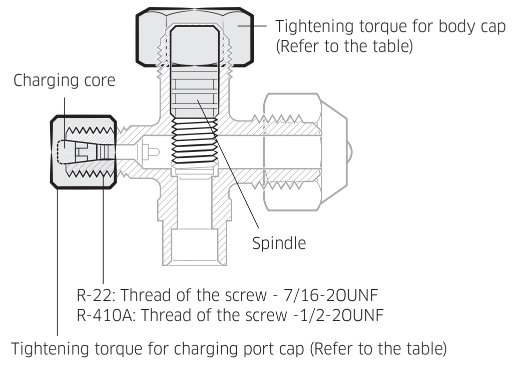
Model name	Refrigerant amount	
	Standard (less 30m)	Additional (over 30m)
	g	g/m
AC100KXADEH	3000	50
AC140KXADGH	3500	50



Open the manifold gauge valve connected to the liquid service valve and add refrigerant to reach the fixed quantity noting the scale.

NOTE

- If you cannot add refrigerant when the operation of the outdoor unit is stopped, open the gas and liquid service valves and add remaining refrigerant by pressing the cooling trial operation button.
- After charging, completely open the spindles of the both the gas and liquid side service valves by rotating them anti-clockwise. (Do not press them further if the spindle hits the stopper.)
- Fasten the caps of the service valves for the gas and liquid pipes including the cap nut of the charging port.
  - There may be slight refrigerant leakage when you open the spindle with a wrench. This is not a failure of the product.
  - Use a wrench that can apply the appropriate force.



Outer diameter (mm)	Tightening torque	
	Body cap (N•m)	Charging port cap (N•m)
ø 6.35	20 to 25	10 to 12
ø 9.52	20 to 25	
ø 12.70	25 to 30	
ø 15.88	30 to 35	
Over ø 19.05	35 to 40	

(1 N•m = 10 kgf•cm)

NOTE

- Be extra cautious for the gas leakage from the 3-way valve’s stem nuts (gas side), and from the service port cap.

Installation Procedure

Pressure table for each temperature

If extra refrigerant charging is required due to gas leakage or product relocation, see the following table.

Cooling operation

Unit: [kPa, G]

Indoor temperature (℃) (Dry bulb / Wet bulb) / Outdoor temperature (℃)	32/23	27/19	21/15
52	1110	900	780
35	920	750	640
21	830	690	590
7	690	540	490
-15	550	400	370

NOTE

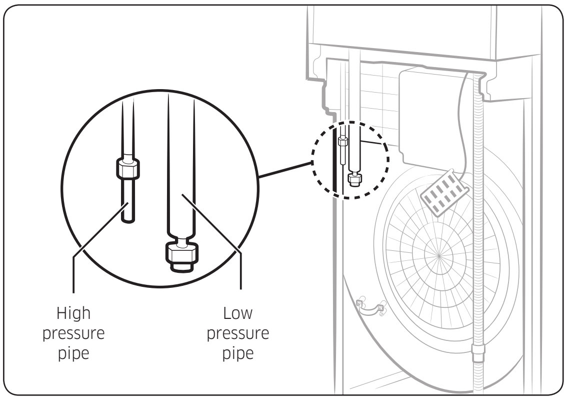
- Pressure for each temperature was measured at the gas side service valve.

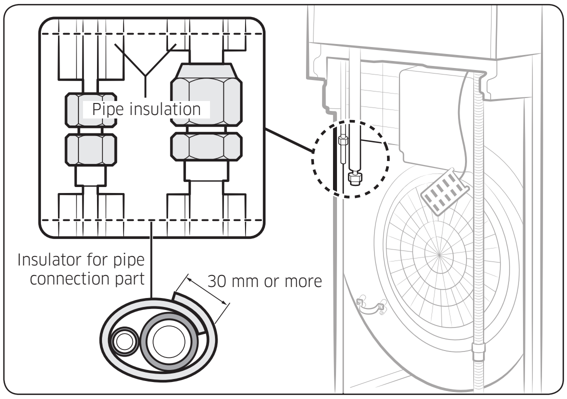
Step 14 Fixing and insulating the connection part for refrigerant pipes

⚠ CAUTION

- Before wrapping the connection part for refrigerant pipes, be sure to check whether there is gas leakage on the connection part.

1 Wrap the foam insulation around the connection part as shown in the figure. This wrapping minimises condensation.

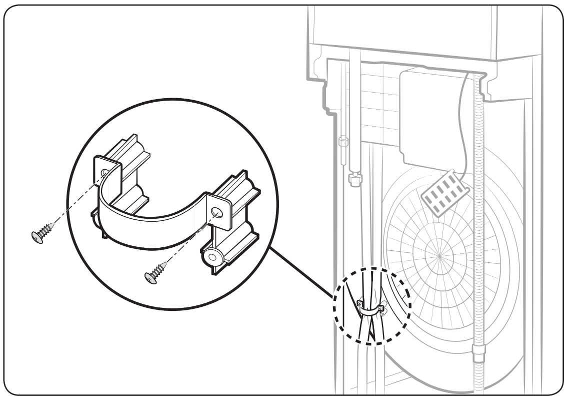




NOTE

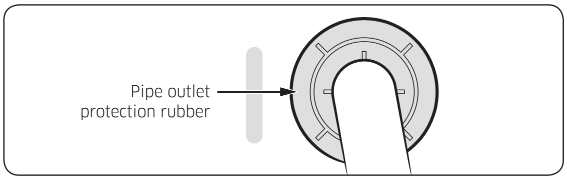
- Use polyethylene foam over 5 mm thick to insulate the connection.

2 Fasten the pipes with a pipe clamp and fix it with screws.



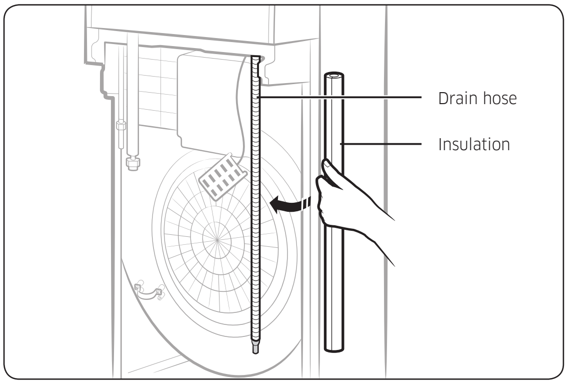
⚠ WARNING

- Remove the middle part of the pipe outlet protection rubber before inserting the pipe.

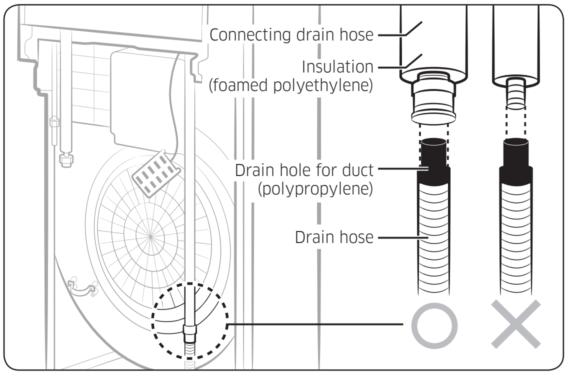


Step 15 Installing and connecting the drain hose

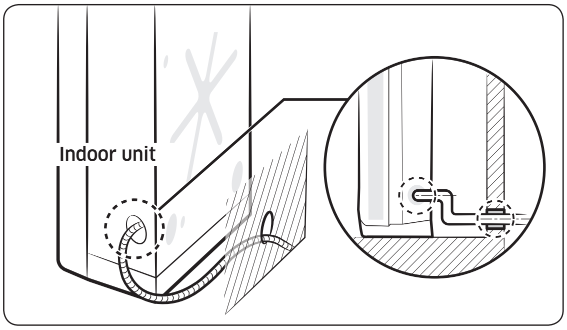
1 Wrap the drain hose with the provided insulation. This wrapping minimises condensation.



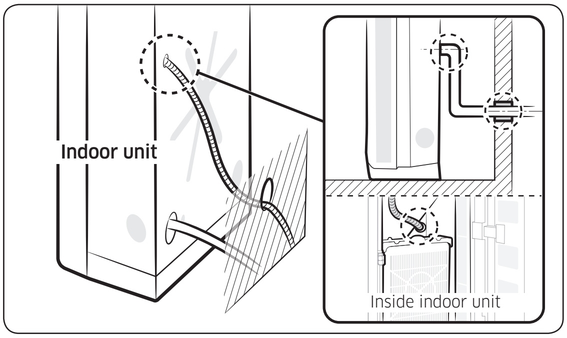
2 Insert the end of the drain hose to the extension drain hose to make a connection.
3 Tightly wrap the connection part with a cable tie or tape for fixing.



- When the hole of the drain hose on the wall is lower than that of the drain hose connection

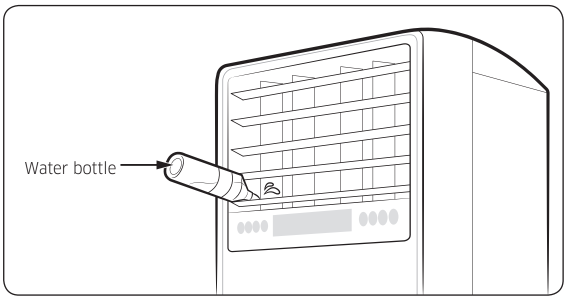


- When the hole of the drain hose on the wall is higher than that of the drain hose connection



Step 16 Performing drainage test

Put the water bottle deeply into the first blade on the left of the air outlet and slowly pour water.



Installation Procedure

⚠ CAUTION

- Install the drain hose in a downward direction.
- Water leakage may occur when the drain hose is not firmly fixed with a cable tie or tape.
- If there is any foreign substance in the drain pan, it may clog the drain hose. Be sure to remove the foreign substance after installation.
- Do not use the drain hose connected by multiple drain hoses.
  - Water may leak from the extension connection part. Install the drain hose for each piece.
  - If its length is too short and you cannot avoid the connecting multiple drain hoses, be sure to use silicone sealant or other material for water-proofing. Do not use the insulating tape.

Step 17 Checking the earthing

Before supplying main power, use a DC 500V insulation resistance tester to measure the resistance between the power terminals (L, N) and the outdoor unit earthing. Make sure that the measurement comes to 30 MΩ.

⚠ CAUTION

- Do not test the communication terminals with the DC 500V insulation resistance tester. Failure to do so may damage the communication circuit.
- Use a common circuit tester to test the communication terminals for open or short circuit.

Step 18 Performing the final check and trial operation

1 Check the power supply between the outdoor unit and the auxiliary circuit breaker.

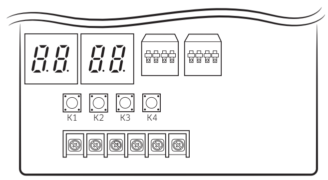
- 1 phase power supply: L, N
- 3 phases power supply: R, S, T, N

2 Check the indoor unit.

- Check that you have connected the power and communication cables correctly. If the power cable and communication cables one mixed up or connected incorrectly, the PCB will be damaged.
- Check that the thermistor sensor, drain pump/hose, and display are connected correctly.

3 Press K1 or K2 on the outdoor unit PCB to run the test mode and stop.

- Press K1 button → Start Heating test mode → Press K1 button twice → Stop → Heating test mode 7-seg display: 
- Press K2 button → Start Cooling test mode → Press K2 button three times → Stop → Cooling test mode 7-seg display: 
- Press K1 button twice → Start Defrost test mode → Press K1 button → Stop → Defrost test mode 7-seg display: 
- Condition of Defrost test mode
- – Condition 1: The outdoor temperature is under 10°C
- – Condition 2: All the temperature conditions should meet the defrost conditions
- Press K2 button twice → Start Inverter Checker mode → Press K2 button twice → Stop → Inverter Checker mode 7-seg display: 
- Press K2 three times → Start Pump down mode → Press K2 button → Stop → Pump down mode 7-seg display: 

Outdoor unit


4 After 12 minutes of stationary conditions check each indoor unit air treatment:

- Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp.: From 10°C to 12°C
- Heating mode (indoor unit check) → Outlet air temp. - Inlet air temp.: From 11°C to 14°C
- In heating mode, the indoor fan motor can remain off to avoid cold air blown into an air-conditioned space.

5 How to reset the power supply of the outdoor unit and deactivate the eco mode (standby mode):

- Outdoor unit types A, B and C: Press the K3 button for over 1 second to reset the power supply of the outdoor unit and deactivate the eco mode (standby mode).

6 View mode: When the K4 switch is pressed, you can see information about our system state, as detailed below.

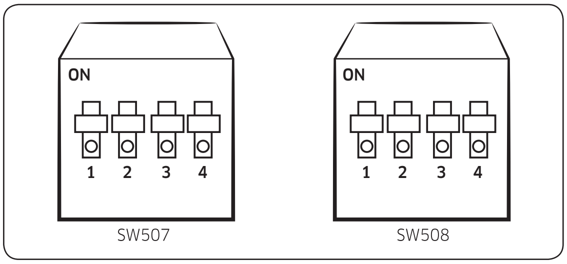
K4 short push	Display contents	SEG1	SEG2	SEG3	SEG4	Unit
1	Order frequency	1	Hundreds digit	Tens digit	Units digit	Hz
2	Current frequency	2	Hundreds digit	Tens digit	Units digit	Hz
3	The number of current indoor units	3	Hundreds digit	Tens digit	Units digit	EA
4	The sensor for outdoor air intake	4	+ / -	Tens digit	Units digit	℃
5	Discharge sensor	5	Hundreds digit	Tens digit	Units digit	℃
6	Eva-Mid sensor	6	+ / -	Tens digit	Units digit	℃
7	Cond sensor	7	+ / -	Tens digit	Units digit	℃
8	Current	8	Tens digit	Units digit	The first place of decimals	A
9	Fan RPM	9	Thousands digit	Hundreds digit	Tens digit	rpm
10	Target discharge temperature	A	Hundreds digit	Tens digit	Units digit	℃
11	EEV	B	Hundreds digit	Tens digit	Units digit	step
12	The capacity sum of indoor units	C	Tens digit	Units digit	The first place of decimals	kW
13	Protective control	D	0: Cooling 1: Heating	Protective control 0: No Protective control 1: Freezing 2: Non-stop defrosting 3: Over-load 4: Discharge 5: Total electric current	Frequency status 0: Normal 1: Hold 2: Down 3: Up_limit 4: Down_limit	-
14	The temperature of heat radiating plate	E	Hundreds digit	Tens digit	Units digit	-
15	S/W check	F	-	-	-	-

Long push	Main micom version	Year (Hex)	Month (Hex)	Date (Tens digit)	Date (Units digit)
After short push 1	Inverter micom version	Year (Hex)	Month (Hex)	Date (Tens digit)	Date (Units digit)
After short push 1	E2P version	Year (Hex)	Month (Hex)	Date (Tens digit)	Date (Units digit)

- Long push K4 (Main micom ver.) → short push 1 more (Inv. micom ver.) → short push 1 more (E2P. ver.)

Installation Procedure

7 DIP switch option



- DIP switch (SW507) option

	On (default)	Off
Switch 1	Auto address	Manual address
Switch 2	Disable snow prevention control	Enable snow prevention control
Switch 3	Silence mode option	
Switch 4		

  – When snow prevention mode is in use, eco mode (standby mode) will not work.

- DIP switch (SW508) option

	On (default)	Off
Switch 1	Auto Silence mode	Manual Silence mode
Switch 2	-	-
Switch 3	-	-
Switch 4	-	-

8 Silence Mode DIP switch option

- DIP switch (SW507) option

Switch 3	Switch 4	Operation
On	On	Disable Silence mode
On	Off	Silence mode 1st step
Off	On	Silence mode 2nd step
Off	Off	Silence mode 3rd step

COMMISSION DELEGATED REGULATION (EU) No 626/2011[i]
PRODUCT FICHE (ENERGY LABELLING OF AIR CONDITIONERS)[ii]

A	Supplier's name	-	Samsung Electronics Co., Ltd.
B	Model name (Indoor/Outdoor)	-	AC100KNPDEH/AC100KXADEH
C	Sound Power Level (Indoor/Outdoor)	dB(A)	60 / 70
D	Refrigerant name[1]	-	R-410A
E	GWP	-	2088
F	SEER		5.8
G	Energy efficiency class (SEER)	-	A+
H	Q_{CE}[2] (cooling season)	kWh/a[iii]	603
I	Pdesignc	kW	10
J	SCOP	-	4.1
K	Energy efficiency class (SCOP)	-	A+
L	Q_{HE}[3] (heating season)	kWh/a[iii]	1810
M	Other heating seasons suitable for use	-	-
N	Pdesignh (Average)	kW	5.3
O	Back up heating capacity(Average)	kW	0
P	Declared capacity (Average)	kW	5.3
Q	Pdesignh (Warmer))	kW	-
R	Back up heating capacity (Warmer)	kW	-
S	Declared capacity (Warmer)	kW	-
T	Pdesignh (Colder)	kW	-
U	Back up heating capacity (Colder)	kW	-
V	Declared capacity (Colder)	kW	-

1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [XXXX]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [XXXX] times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
2) Energy consumption “XYZ” kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
3) Energy consumption “XYZ” kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

Appendix

	[Spanish-ES]	[French-FR]	[Italian-IT]	[Portuguese-PT]
i	REGLAMENTO DELEGADO (UE) No 626/2011 DE LA COMISIÓN	RÈGLEMENT DÉLÉGUÉ (UE) No 626/2011 DE LA COMMISSION	REGOLAMENTO DELEGATO (UE) N. 626/2011 DELLA COMMISSIONE	REGULAMENTO DELEGADO (UE) N.o 626/2011 DA COMISSÃO
ii	Ficha del producto (etiquetado energético de los acondicionadores de aire)	Fiche produit (l'indication, par voie d'étiquetage, de la consommation d'énergie des climatiseurs)	Scheda prodotto (l'etichettatura indicante il consumo d'energia dei condizionatori d'aria)	Ficha de produto (rotulagem energética dos aparelhos de ar condicionado)
iii	kWh/a	kWh/a	kWh/a	kWh/a
iv	-	-	-	-
A	Nombre del proveedor	Nom du fournisseur	Nome del Fornitore	Nome do fornecedor
B	Nombre del modelo (interior/ exterior)	Nom du modèle (intérieur/extérieur)	Nome del Modello (interno/esterno)	Nome do modelo (interior/exterior)
C	Nivel de potencia acústica (interior/exterior)	Niveau de puissance acoustique (intérieur/extérieur)	Livello della potenza sonora (interno/esterno)	Nível de potência sonora (interior/exterior)
D	Nombre del refrigerante[1)]	Nom du fluide frigorigène[1)]	Tipo di refrigeranbte[1)]	Nome do fluido refrigerante[1)]
E	GWP	PRP	GWP	PAG
F	SEER	SEER	SEER	SEER
G	Clase de eficiencia energética (SEER)	Classe d'efficacité énergétique (SEER)	Clesse di Efficienza Energetica (SEER)	Classe de eficiência energética (SEER)
H	Q_{CE}[2)] (temporada refrigeración)	Q_{CE}[2)] (saison froide)	Q_{CE}[2)] (stagione di raffreddamento)	Q_{CE}[2)] (estação de arrefecimento)
I	Pdesignc	Pdesignc	Pdesignc	Pdesignc
J	SCOP	SCOP	SCOP	SCOP
K	Clase de eficiencia energética (SCOP)	Classe d'efficacité énergétique (SCOP)	Clesse di Efficienza Energetica (SCOP)	Classe de eficiência energética (SCOP)
L	Q_{HE}[3)] (temporada calefacción)	Q_{HE}[3)] (saison chaude)	Q_{HE}[3)] (stagione di riscaldamento)	Q_{HE}[3)] (estação de aquecimento)
M	Otras temporadas de calefacción declaradas aptas para funcionar	Adapté à d'autres saisons chaudes	Altre stagioni di riscaldamento adatti per l'uso	Outras estações de aquecimento adequadas para utilização
N	Pdesignh (Media)	Pdesignh (moyenne)	Pdesignh (Media)	Pdesignh (Média)
O	Copia de seguridad de capacidad de calefacción (Media)	Sauvegarder la capacité de chauffage (moyenne)	Eseguire il backup di potenza termica (Media)	Fazer backup de capacidade de aquecimento (Média)
P	Potencia declarada (Media)	Puissance frigorifique déclarée (moyenne)	Capacità dichiarata (Media)	Capacidade declarada (Média)
Q	Pdesignh (Más cálida)	Pdesignh (plus chaude)	Pdesignh (Più calda)	Pdesignh (Mais quente)
R	Copia de seguridad de capacidad de calefacción (Más cálida)	Sauvegarder la capacité de chauffage (plus chaude)	Eseguire il backup di potenza termica (Più calda)	Fazer backup de capacidade de aquecimento (Mais quente)
S	Potencia declarada (Más cálida)	Puissance frigorifique déclarée (plus chaude)	Capacità dichiarata (Più calda)	Capacidade declarada (Mais quente)
T	Pdesignh (Más fría)	Pdesignh (plus froide)	Pdesignh (Più fredda)	Pdesignh (Mais fria)
U	Copia de seguridad de capacidad de calefacción (Más fría)	Sauvegarder la capacité de chauffage (plus froide)	Eseguire il backup di potenza termica (Più fredda)	Fazer backup de capacidade de aquecimento (Mais fria)
V	Potencia declarada (Más fría)	Puissance frigorifique déclarée (plus froide)	Capacità dichiarata (Più fredda)	Capacidade declarada (Mais fria)

	[German-DE]	[Greek-EL]	[Dutch-NL]	[Polish-PL]
i	DELEGIERTE VERORDNUNG (EU) Nr. 626/2011 DER KOMMISSION	ΚΑΤ’ ΕΞΟΥΣΙΟΔΌΤΗΣΗ ΚΑΝΟΝΙΣΜΌΣ (ΕΕ) αριθ. 626/2011 ΤΗΣ ΕΠΙΤΡΟΠΉΣ	GEDELEGEERDE VERORDENING (EU) VAN DE COMMISSIE Nr. 626/2011	ROZPORZĄDZENIE DELEGOWANE KOMISJI (UE) nr 626/2011
ii	Produktdatenblatt (die Kennzeichnung von Luftkonditionierern in Bezug auf den Energieverbrauch)	Δελτίο προϊόντος (επισήμανση της κατανάλωσης ενέργειας των κλιματιστικών)	Productkaart (energie-etikettering van airconditioners)	Karta produktu (etykiet efektywności energetycznej dla klimatyzatorów)
iii	kWh/a	kWh/έτος	kWh/a	kWh/a
iv	-	-	-	-
A	Name des Lieferanten	Όνομα προμηθευτή	Naam van leverancier	Nazwa dostawcy
B	Modellbezeichnung (innen/außen)	Ονομασία μοντέλου(εσωτερικού/ εξωτερικού χώρου)	Modelnaam(binnen/buiten)	Nazwa modelu (w pomieszczeniu / na zewnątrz)
C	Schallleistungspegel (innen/ außen)	Στάθμη ηχητικής ισχύος (εσωτερικού/εξωτερικού χώρου)	geluidsvermogensniveau (binnen/buiten)	Poziom mocy akustycznej (w pomieszczeniu / na zewnątrz)
D	Name des Kältemittels[1)]	Όνομα ψυκτικού μέσου[1)]	Naam van koelmiddel[1)]	Nazwa czynnika chłodniczego[1)]
E	GWP	GWP	GWP	GWP
F	SEER	SEER	SEER	SEER
G	Energieeffizienzklasse (SEER)	Τάξη ενεργειακής απόδοσης (SEER)	Energiezuinigheidsklasse (SEER)	Klasa efektywności energetycznej (SEER)
H	Q_{CE}[2)] (Kühlperiode)	Q_{CE}[2)] (εποχή ψύξης)	Q_{CE}[2)] (koelseizoen)	Q_{CE}[2)] (sezon chłodniczy)
I	Pdesignc	Pdesignc	Pdesignc	Pdesignc
J	SCOP	SCOP	SCOP	SCOP
K	Energieeffizienzklasse (SCOP)	Τάξη ενεργειακής απόδοσης (SCOP)	Energiezuinigheidsklasse (SCOP)	Klasa efektywności energetycznej (SCOP)
L	Q_{HE}[3)] (Heizperiode)	Q_{HE}[3)] (εποχή θέρμανσης)	Q_{HE}[3)] (verwarmingsseizoen)	Q_{HE}[3)] (sezon grzewczy)
M	Weitere geeignete Heizperioden	Άλλες εποχές θέρμανσης που είναι κατάλληλο για χρήση	Andere verwarmingsseizoenen geschikt voor gebruik	Inne sezony grzewcze, w ciągu których urządzenie jest używane
N	Pdesignh (mittel)	Pdesignh (μέση εποχή)	Pdesignh (Gemiddeld)	Pdesignh (Umiarkowany)
O	Sichern Heizleistung (mittel)	Δημιουργία αντιγράφων ασφαλείας ικανότητα θέρμανσης (μέση εποχή)	Een back-up verwarmingscapaciteit (Gemiddeld)	Kopię zapasową moc grzewczą (Umiarkowany)
P	Angegebene Leistung (mittel)	Δηλωμένη ψυκτική ισχύς (μέση εποχή)	Opgegeven vermogen (Gemiddeld)	Deklarowana wydajność (Umiarkowany)
Q	Pdesignh (wärmer)	Pdesignh (θερμότερη εποχή)	Pdesignh (Warmer)	Pdesignh (Chłodny)
R	Sichern Heizleistung (wärmer)	Δημιουργία αντιγράφων ασφαλείας ικανότητα θέρμανσης (θερμότερη εποχή)	Een back-up verwarmingscapaciteit (Warmer)	Kopię zapasową moc grzewczą (Chłodny)
S	Angegebene Leistung (wärmer)	Δηλωμένη ψυκτική ισχύς (θερμότερη εποχή)	Opgegeven vermogen (Warmer)	Deklarowana wydajność (Chłodny)
T	Pdesignh (kälter)	Pdesignh (ψυχρότερη εποχή)	Pdesignh (Kouder)	Pdesignh (Ciepły)
U	Sichern Heizleistung (kälter)	Δημιουργία αντιγράφων ασφαλείας ικανότητα θέρμανσης (ψυχρότερη εποχή)	Een back-up verwarmingscapaciteit (Kouder)	Kopię zapasową moc grzewczą (Ciepły)
V	Angegebene Leistung (kälter)	Δηλωμένη ψυκτική ισχύς (ψυχρότερη εποχή)	Opgegeven vermogen (Kouder)	Deklarowana wydajność (Ciepły)

Appendix

	[Hungarian-HU]	[Czech-CS]	[Slovak-SK]	[Romanian-RO]
i	A BIZOTTSÁG 626/2011/EU FELHATALMAZÁSON ALAPULÓ RENDELETE	NAŘÍZENÍ KOMISE V PŘENESENÉ PRAVOMOCI (EU) č. 626/2011	DELEGOVANÉ NARIADENIE KOMISIE (EÚ) č. 626/2011	REGULAMENT DELEGAT (UE) NR. 626/2011 AL COMISIEI
ii	Termékismertető adatlap (a légkondicionáló berendezések energiafogyasztásának címkézése)	Informační list (energie na energetických štítcích klimatizátorů vzduchu)	Opis výrobku (označovanie klimatizátorov energetickými)	Fişa produsului (etichetarea energetică a aparatelor de climatizare)
iii	kWh/év	kWh/rok	kWh/rok	kWh/a
iv	-	-	-	-
A	Beszállító neve	Název dodavatele	Názov dodávateľa	Nume furnizor
B	Típus neve(beltéri/kültéri)	Název modelu(vnitřní/venkovní)	Názov modelu(vnútorná/vonkajšia)	Nume model(interior/exterior)
C	Hangteljesítményszint (beltéri/kültéri)	Hladina akustického výkonu (vnitřní/venkovní)	Hladina akustického výkonu (vnútorná/vonkajšia)	Nivelul de putere acustică (interior/exterior)
D	Hűtőközeg megnevezése[1)]	Název chladiva[1)]	Chladivo[1)]	Nume refrigerent[1)]
E	GWP	GWP	GWP	GWP
F	SEER	SEER	SEER	SEER
G	Energiahatékonysági osztály (SEER)	Třída energetické účinnosti (SEER)	Trieda energetickej účinnosti (SEER)	Clasă eficienţă energetică (SEER)
H	Q_{CE}[2)] (hűtési szezonban)	Q_{CE}[2)] (chladicí období)	Q_{CE}[2)] (sezóna chladenia)	Q_{CE}[2)] (sezon răcire)
I	Pdesignc	Pdesignc	Pdesignc	Pdesignc
J	SCOP	SCOP	SCOP	SCOP
K	Energiahatékonysági osztály (SCOP)	Třída energetické účinnosti (SCOP)	Trieda energetickej účinnosti (SCOP)	Clasă eficienţă energetică (SCOP)
L	Q_{HE}[3)] (fűtési szezonban)	Q_{HE}[3)] (topné období)	Q_{HE}[3)] (sezóna vykurovania)	Q_{HE}[3)] (sezon încălzire)
M	Egyéb fűtési szezonban használható	Jiná topná období vhodná pro použití	Iné sezóny vykurovania, v ktorých je vhodné použitie zariadenia	Alte sezoane de încălzire potrivite pentru utilizare
N	Pdesignh (Átlagos)	Pdesignh (Průměrná)	Pdesignh (Priemerná)	Pdesignh (mediu)
O	Biztonsági másolat készítése fűtőteljesítmény (Átlagos)	Zálohování topný výkon (Průměrná)	Zálohovanie vykurovací výkon (Priemerná)	Copierea de rezervă a capacităţii de încălzire (mediu)
P	Névleges hűtőteljesítmény (Átlagos)	Deklarovaný chladicí výkon (Průměrná)	Deklarovaný chladiaci výkon (Priemerná)	Capacitatea declarată (mediu)
Q	Pdesignh (Melegebb)	Pdesignh (Teplejší)	Pdesignh (Teplejšia)	Pdesignh (mai cald)
R	Biztonsági másolat készítése fűtőteljesítmény (Melegebb)	Zálohování topný výkon (Teplejší)	Zálohovanie vykurovací výkon (Teplejšia)	Copierea de rezervă a capacităţii de încălzire (mai cald)
S	Névleges hűtőteljesítmény (Melegebb)	Deklarovaný chladicí výkon (Teplejší)	Deklarovaný chladiaci výkon (Teplejšia)	Capacitatea declarată (mai cald)
T	Pdesignh (Hidegebb)	Pdesignh (Chladnější)	Pdesignh (Chladnejšia)	Pdesignh (mai rece)
U	Biztonsági másolat készítése fűtőteljesítmény (Hidegebb)	Zálohování topný výkon (Chladnější)	Zálohovanie vykurovací výkon (Chladnejšia)	Copierea de rezervă a capacităţii de încălzire (mai rece)
V	Névleges hűtőteljesítmény (Hidegebb)	Deklarovaný chladicí výkon (Chladnější)	Deklarovaný chladiaci výkon (Chladnejšia)	Capacitatea declarată (mai rece)

	[Bulgarian-BG]	[Croatian-HR]	[Slovenian-SL]	[Danish-DA]
i	ДЕЛЕГИРАН РЕГЛАМЕНТ (ЕС) № 626/2011 НА КОМИСИЯТА	DELEGIRANA UREDBA KOMISIJE (EU) br. 626/2011	DELEGIRANA UREDBA KOMISIJE (EU) št. 626/2011	KOMMISSIONENS DELEGEREDE FORORDNING (EU) Nr. 626/2011
ii	Продуктов фиш (енергийното етикетиране на климатизатори)	Informacijski list proizvoda (označivanja energetske učinkovitosti)	Podatkovna kartica izdelka (energijskim označevanjem klimatskih naprav)	Datablad (energimærkning af klimaanlæg)
iii	kWh/a	kWh/a	kWh/a	kWh/a
iv	-	-	-	-
A	Име на доставчик	Naziv dobavljača	Ime dobavitelja	Leverandørs navn
B	Име на модел (вътре/на открито)	Naziv modela (u zatvorenom/ otvorenom)	Ime modela (notranja/zunanja)	Modelnavn (inde/ude)
C	Ниво на звуковата мощност (вътре/на открито)	Razina zvučne snage (u zatvorenom/otvorenom)	Raven zvočne moči (notranja/ zunanja)	Lydeffektniveau (inde/ude)
D	Наименование на хладилен агент[1)]	Naziv rashladnog sredstva[1)]	Ime hladilnega sredstva[1)]	Navn på kølemiddel[1)]
E	GWP	GWP	GWP	GWP
F	SEER	SEER	SEER	SEER
G	Клас на енергийна ефективност (SEER)	Razred energetske učinkovitosti (SEER)	Razred energijske učinkovitosti (SEER)	Energieffektivitetsklasse (SEER)
H	Q_{CE}[2)] (сезон на охлаждане)	Q_{CE}[2)] (sezona hlađenja)	Q_{CE}[2)] (hladilna sezona)	Q_{CE}[2)] (afkølingssæson)
I	Pdesignc	Pdesignc	Pdesignc	Pdesignc
J	SCOP	SCOP	SCOP	SCOP
K	Клас на енергийна ефективност (SCOP)	Razred energetske učinkovitosti (SCOP)	Razred energijske učinkovitosti (SCOP)	Energieffektivitetsklasse (SCOP)
L	Q_{HE}[3)] (отоплителен сезон)	Q_{HE}[3)] (sezona grijanja)	Q_{HE}[3)] (hladilna sezona)	Q_{HE}[3)] (heizperiode)
M	Подходящ за използване при други отоплителни сезони	Druge sezone grijanja u kojima se može koristiti	Ostale grelne sezone, primerne za uporabo	Andre opvarmningsårsager velegnet til brug
N	Pdesignh (Среден)	Pdesignh (Prosječno)	Pdesignh (Povprečno)	Pdesignh (Middel)
O	Архивиране на отоплителна мощност (Среден)	Back up kapacitet grijanja (Prosječno)	Back up kapacitete gretja (Povprečno)	Sikkerhedskopier varmekapacitet (Middel)
P	Обявена охладителна мощност (Среден)	Prijavljeni kapacitet (Prosječno)	Prijavljena zmogljivost (Povprečno)	Oplyst køleydelse (Middel)
Q	Pdesignh (По-топъл)	Pdesignh (Toplije)	Pdesignh (Topleje)	Pdesignh (Varmere)
R	Архивиране на отоплителна мощност (По-топъл)	Back up kapacitet grijanja (Toplije)	Back up kapacitete gretja (Topleje)	Sikkerhedskopier varmekapacitet (Varmere)
S	Обявена охладителна мощност (По-топъл)	Prijavljeni kapacitet (Toplije)	Prijavljena zmogljivost (Topleje)	Oplyst køleydelse (Varmere)
T	Pdesignh (По-студен)	Pdesignh (Hladnije)	Pdesignh (Hladneje)	Pdesignh (Koldere)
U	Архивиране на отоплителна мощност (По-студен)	Back up kapacitet grijanja (Hladnije)	Back up kapacitete gretja (Hladneje)	Sikkerhedskopier varmekapacitet (Koldere)
V	Обявена охладителна мощност (По-студен)	Prijavljeni kapacitet (Hladnije)	Prijavljena zmogljivost (Hladneje)	Oplyst køleydelse (Koldere)

Appendix

	[Swedish-SV]	[Finnish-FI]	[Estonian-ET]	[Latvian-LV]
i	KOMMISSIONENS DELEGERADE FÖRORDNING (EU) nr 626/2011	DELEGOITU KOMISSION ASETUS (EU) N:o 626/2011,	KOMISJONI DELEGEERITUD MÄÄRUS (EL) nr 626/2011,	KOMISIJAS DELEĢĒTĀ REGULA (ES) Nr. 626/2011
ii	Produktblad (energimärkning av luftkonditioneringsapparater)	Tuoteseloste (huoneilmastointilaitteiden energiamerkinnän osalta)	Tootekirjeldus (kliimaseadmete energiamärgistusega)	Ražojuma speciālā zīme (gaisa kondicionētāju energomarķējumu)
iii	kWh/a	kWh/v	kWh/a	kWh/a
iv	-	-	-	-
A	Leverantörens namn	Toimittajan nimi	Tarnija nimi	Piegādātāja nosaukums
B	Modellnamn (inomhus/ utomhus)	Mallinimi (sisällä/ulkona)	Mudeli nimi (ruumis/ väljas)	Modeļa nosaukumu (telpās / ārpus telpām)
C	Ljudeffektnivå (inomhus/ utomhus)	Äänitehotaso (sisällä/ulkona)	Helivõimsustase (ruumis/ väljas)	Akustiskās jaudas līmenis (telpās / ārpus telpām)
D	Kylmedelsnamn[1)]	Jäähdytysaineen nimi[1)]	Jahutusaine nimi[1)]	Aukstumaģenta nosaukums[1)]
E	GWP	GWP	GWP	GSP
F	SEER	SEER	SEER	SEER
G	Energieffektivitetsklass (SEER)	Energiatehokkuusluokka (SEER)	Energiatõhususklass (SEER)	Energoefektivitātes klase (SEER)
H	Q_{CE}[2)] (kylningssäsong)	Q_{CE}[2)] (jäähdytyskausi)	Q_{CE}[2)] (jahutamise hooaeg)	Q_{CE}[2)] (dzesēšanas sezonā)
I	Pdesignc	Pdesignc	Pdesignc	Pdesignc
J	SCOP	SCOP	SCOP	SCOP
K	Energieffektivitetsklass (SCOP)	Energiatehokkuusluokka (SCOP)	Energiatõhususklass (SCOP)	Energoefektivitātes klase (SCOP)
L	Q_{HE}[3)] (uppvärmningssäsong)	Q_{HE}[3)] (lämmityskausi)	Q_{HE}[3)] (soojendamise hooaeg)	Q_{HE}[3)] (apsildes sezonā)
M	Andra uppvärmningssäsonger lämpliga för användning	Muut käyttöön soveltuvat lämmityskaudet	Muud kasutamiseks sobivad soojendamise hooajad	Citas sezonas, kurās izstrādājums ir piemērots izmantošanai
N	Pdesignh (Genomsnitt)	Pdesignh (Keskimääräinen)	Pdesignh (Keskmine)	Pdesignh (Vidējā)
O	Säkerhetskopiera värmeeffekt (Genomsnitt)	Varmuuskopioida lämmitysteho (Keskimääräinen)	Varunda küttevõimsus (Keskmine)	Dublēt apkures jaudu (Vidējā)
P	Deklarerad kapacitet (Genomsnitt)	Jäähdytyksen ilmoitettu teho (Keskimääräinen)	Jahutamise nimivõimsus (Keskmine)	Deklarētā jauda (Vidējā)
Q	Pdesignh (Varmare)	Pdesignh (Lämmin)	Pdesignh (Soojem)	Pdesignh (Siltāks)
R	Säkerhetskopiera värmeeffekt (Varmare)	Varmuuskopioida lämmitysteho (Lämmin)	Varunda küttevõimsus (Soojem)	Dublēt apkures jaudu (Siltāks)
S	Deklarerad kapacitet (Varmare)	Jäähdytyksen ilmoitettu teho (Lämmin)	Jahutamise nimivõimsus (Soojem)	Deklarētā jauda (Siltāks)
T	Pdesignh (Kallare)	Pdesignh (Kylmä)	Pdesignh (Külmem)	Pdesignh (Aukstāks)
U	Säkerhetskopiera värmeeffekt (Kallare)	Varmuuskopioida lämmitysteho (Kylmä)	Varunda küttevõimsus (Külmem)	Dublēt apkures jaudu (Aukstāks)
V	Deklarerad kapacitet (Kallare)	Jäähdytyksen ilmoitettu teho (Kylmä)	Jahutamise nimivõimsus (Külmem)	Deklarētā jauda (Aukstāks)

	[Lithuanian-LT]	[Serbian-SR]
i	KOMISIJOS DELEGUOTASIS REGLAMENTAS (ES) Nr. 626/2011	КОМИСИЈА ДЕЛЕГАТЕД УРЕДБА (ЕС) № 626/2011
ii	Gaminio vardinių parametrų lentelė (oro kondicionierių energijos vartojimo efektyvumo ženklinimo reikalavimus)	ПРОИЗВОДА ФИЦХЕ (енергетског означавања клима уређаја)
iii	kWh/a	kWh/godišnje
iv	-	-
A	Tiekėjo pavadinimas	Naziv dobavljača
B	Modelis pavadinimas (patalpoje / lauke)	Naziv modela (unutršnja jedinica/ spoljašnja jedinica)
C	Garso galios lygis (patalpoje / lauke)	Nivo buke (unutrašnja/spoljna jedinica)
D	Šaldalo pavadinimas[1)]	Naziv rashladnog sredstva[1)]
E	GWP	GWP
F	SEER	SEER
G	Energijos efektyvumo klasė (SEER)	Klasa energetske efikasnosti (SEER)
H	Q_{CE}[2)] (vėsinimo sezonas)	Q_{CE}[2)] (sezona hlađenja)
I	Pdesignc	Pdesignc
J	SCOP	SCOP
K	Energijos efektyvumo klasė (SCOP)	Klasa energetske efikasnosti (SCOP)
L	Q_{HE}[3)] (šildymo sezonas)	Q_{HE}[3)] (grejna sezona)
M	Kiti naudoti tinkami	
N	Druge grejne sezone pogodne za korišćenje	
O	Pdesignh (Vidutinis)	Pdesignh (Prosečno)
P	Atsargines šildymo pajėgumas (Vidutinis)	Бацк уп капацитет грејања (Prosečno)
Q	Deklaruotasis pajėgumas (Vidutinis)	Deklarisani kapacitet (Prosečno)
R	Pdesignh (Šiltesnis)	Pdesignh (Topliji deo godine)
S	Atsargines šildymo pajėgumas (Šiltesnis)	Бацк уп капацитет грејања (Topliji deo godine)
T	Deklaruotasis pajėgumas (Šiltesnis)	Deklarisani kapacitet (Topliji deo godine)
U	Pdesignh (Vėsesnis)	Pdesignh (Hladniji deo godine)
V	Atsargines šildymo pajėgumas (Vėsesnis)	Бацк уп капацитет грејања (Hladniji deo godine)
	Deklaruotasis pajėgumas (Vėsesnis)	Deklarisani kapacitet (Hladniji deo godine)

Appendix

Appendix

[Spanish-ES]

1 Las fugas de refrigerante contribuyen al cambio climático. Cuanto mayor sea el potencial de calentamiento global (GWP) de un refrigerante, más contribuirá a dicho calentamiento su vertido a la atmósfera. Este aparato contiene un líquido refrigerante con un GWP igual a [xxx]. Esto significa que, si pasara a la atmósfera 1 kg de este líquido refrigerante, el impacto en el calentamiento global sería, a lo largo de un periodo de 100 años, [xxx] veces mayor que si se vertiera 1 kg de CO2. Nunca intente intervenir en el circuito del refrigerante ni desmontar el aparato usted mismo; consulte siempre a un profesional.

2 Consumo de energía “XYZ” kWh/año, según los resultados obtenidos en ensayos estándar. El consumo de energía real depende de las condiciones de uso del aparato y del lugar en el que esté instalado.

3 Consumo de energía “XYZ” kWh/año, según los resultados obtenidos en ensayos estándar. El consumo de energía real depende de las condiciones de uso del aparato y del lugar en el que esté instalado.

[French-FR]

1 Les fuites de réfrigérants accentuent le changement climatique. En cas de fuite, l'impact sur le réchauffement de la planète sera d'autant plus limité que le potentiel de réchauffement planétaire (PRP) du réfrigérant est faible. Cet appareil utilise un réfrigérant dont le PRP est égal à [xxx]. En d'autres termes, si 1 kg de ce réfrigérant est relâché dans l'atmosphère, son impact sur le réchauffement de la planète sera [xxx] fois supérieur à celui d'1 kg de CO2, sur une période de 100 ans. Ne tentez jamais d'intervenir dans le circuit frigorifique et de démonter les pièces vous-même et adressez-vous systématiquement à un professionnel.

2 Consommation d'énergie de “XYZ” kWh par an, déterminée sur la base des résultats obtenus dans des conditions d'essai normalisées. La consommation d'énergie réelle dépend des conditions d'utilisation et de l'emplacement de l'appareil.

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[Italian-IT]

1 La perdita di refrigerante contribuisce al cambiamento climatico. In caso di rilascio nell'atmosfera, i refrigeranti con un potenziale di riscaldamento globale (GWP) più basso contribuiscono in misura minore al riscaldamento globale rispetto a quelli con un GWP più elevato. Questo apparecchio contiene un fluido refrigerante con un GWP di [xxx]. Se 1 kg di questo fluido refrigerante fosse rilasciato nell'atmosfera, quindi, l'impatto sul riscaldamento globale sarebbe [xxx] volte più elevato rispetto a 1 kg di CO2, per un periodo di 100 anni. In nessun caso l'utente deve cercare di intervenire sul circuito refrigerante o di disassemblare il prodotto. In caso di necessità occorre sempre rivolgersi a personale qualificato.

2 Consumo di energia “XYZ” kWh/anno in base ai risultati di prove standard. Il consumo effettivo dipende dalle modalità di utilizzo dell'apparecchio e dal luogo in cui è installato.

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[Portuguese-PT]

1 A fuga de fluido refrigerante contribui para as alterações climáticas. Os fluidos refrigerantes com menor potencial de aquecimento global (PAG) contribuem menos para o aquecimento global do que os fluidos refrigerantes com maior PAG, em caso de fuga para a atmosfera. Este aparelho contém um fluido refrigerante com um PAG igual a [xxx]. Isto significa que, se ocorrer uma fuga de 1 kg deste fluido refrigerante para a atmosfera, o seu impacto no aquecimento global será [xxx] vezes mais elevado do que o de 1 kg de CO2, durante um período de 100 anos. Nunca tome a iniciativa de intervir no circuito do fluido refrigerante ou de desmontar este produto; recorra sempre a um profissional.

2 Consumo de energia "XYZ" kWh por ano, com base nos resultados do teste normalizado. O valor real do consumo de energia dependerá do modo de utilização do aparelho e da sua localização

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[German-DE]

1 Der Austritt von Kältemittel trägt zum Klimawandel bei. Kältemittel mit geringerem Treibhauspotenzial tragen im Fall eines Austretens weniger zur Erderwärmung bei als solche mit höherem Treibhauspotenzial. Dieses Gerät enthält Kältemittel mit einem Treibhauspotenzial von [xxx]. Somit hätte ein Austreten von 1 kg dieses Kältemittels [xxx] Mal größere Auswirkungen auf die Erderwärmung als 1 kg CO2, bezogen auf hundert Jahre. Keine Arbeiten am Kältekreislauf vornehmen oder das Gerät zerlegen – stets Fachpersonal hinzuziehen.

2 Energieverbrauch ‚XYZ' kWh/Jahr, auf der Grundlage von Ergebnissen der Normprüfung. Der tatsächliche Verbrauch hängt von der Nutzung und vom Standort des Geräts ab.

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[Greek-EL]

1 Διαρροή ψυκτικού μέσου συμβάλλει στην κλιματική αλλαγή. Εάν διαρρεύσει στην ατμόσφαιρα ψυκτικό μέσο με χαμηλότερο δυναμικό θέρμανσης του πλανήτη (GWP) θα συμβάλει λιγότερο στην υπερθέρμανση του πλανήτη από ψυκτικό με υψηλότερο GWP. Αυτή η συσκευή περιέχει ψυκτικό μέσο με GWP ίσο με [xxx]. Αυτό σημαίνει ότι εάν διαρρεύσει στην ατμόσφαιρα 1 kg του ψυκτικού μέσου, οι επιπτώσεις στην υπερθέρμανση του πλανήτη θα είναι [xxx] φορές μεγαλύτερες από 1 kg CO2, σε περίοδο 100 ετών. Ποτέ μην επιχειρήσετε να επέμβετε στο κύκλωμα ψυκτικού μέσου ή να αποσυναρμολογήσετε το προϊόν και πάντοτε να απευθύνεστε σε επαγγελματία.

2 Κατανάλωση ενέργειας "XYZ" kWh ετησίως, με βάση τα αποτελέσματα πρότυπης δοκιμής. Η πραγματική κατανάλωση ενέργειας εξαρτάται από τον τρόπο χρήσης και τη θέση της συσκευής.

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Appendix

[Dutch-NL]

1 Lekkage van koelmiddel leidt tot klimaatverandering. Bij lekkage in de lucht draagt een koelmiddel met een laag aardopwarmingsvermogen (GWP) minder bij tot de opwarming van de aarde dan een koelmiddel met een hoog GWP. Dit apparaat bevat een koelmiddel met een GWP gelijk aan [xxx]. Dit houdt in dat als 1 kg van deze koelvloeistof in de lucht vrijkomt, het effect op de aardopwarming over een periode van 100 jaar [xxx] keer groter zou zijn dan bij het vrijkomen van 1 kg CO_2. Laat het koelcircuit steeds ongemoeid en probeer nooit het product zelf te demonteren; vraag dit steeds aan een vakman.

2 Energieverbruik „XYZ” kWh per jaar, gebaseerd op de resultaten van standaardtests. Het feitelijke energieverbruik is afhankelijk van de manier waarop het apparaat wordt gebruikt en de plaats waar het zich bevindt.

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[Polish-PL]

1 Wycieki czynników chłodniczych przyczyniają się do zmiany klimatu. W przypadku przedostania się do atmosfery czynnik chłodniczy o niższym współczynniku ocieplenia globalnego (GWP) ma mniejszy wpływ na globalne ocieplenie niż czynnik o wyższym współczynniku GWP. Urządzenie zawiera płyn chłodniczy o współczynniku GWP wynoszącym [xxx]. Powyższe oznacza, iż w przypadku przedostania się 1 kg takiego płynu chłodniczego do atmosfery, jego wpływ na globalne ocieplenie byłby [xxx] razy większy niż wpływ 1 kg CO_2 w okresie 100 lat. Nigdy nie należy samodzielnie manipulować przy obiegu czynnika chłodniczego lub demontować urządzenia, należy zawsze zwrócić się o pomoc specjalisty.

2 Zużycie energii elektrycznej »XYZ« kWh rocznie na podstawie wyników próby przeprowadzonej w normalnych warunkach. Rzeczywiste zużycie energii elektrycznej zależy od sposobu użytkowania urządzenia i miejsca, w którym się ono znajduje.

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[Hungarian-HU]

1 A hűtőfolyadék szivárgása hozzájárul a globális felmelegedéshez. Minél kisebb egy hűtőfolyadék globális felmelegedési potenciálja (GWP-je), annál kevésbé járul hozzá a globális felmelegedéshez, ha a légkörbe kerül. A készülékben található hűtőfolyadék GWP-je [xxx]. Ez azt jelenti, hogy ha ebből a hűtőfolyadékból 1 kilogramm a légkörbe kerülne, akkor a globális felmelegedésre 100 év alatt [xxx]-szor/-szer/-ször akkora hatást gyakorolna, mint 1 kilogramm szén-dioxid. Ne próbáljon saját kezűleg beavatkozni a hűtőkörbe, és ne szedje szét saját kezűleg a terméket! Ezt a feladatot mindig bízza szakemberre!

2 »XYZ« kWh/év energiafogyasztás szabványos vizsgálati eredmények alapján. A tényleges energiafogyasztás függ a készülék elhelyezésétől és használatának módjától.

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[Czech-CS]

1 Únik chladiva se podílí na změně klimatu. Chladivo s nižším potenciálem globálního oteplování (GWP) by se v případě úniku do ovzduší podílelo na globálním oteplování méně než chladivo s vyšším GWP. Toto zařízení obsahuje chladicí kapalinu s GWP ve výši [xxx]. To znamená, že pokud by do ovzduší unikl 1 kg této chladicí kapaliny, dopad na globální oteplování by byl v horizontu 100 let [xxx] krát vyšší než 1 kg CO2. Nenarušujte chladicí oběh ani sami výrobek nedemontujte, vždy se obraťte na odborníka.

2 Spotřeba energie ‚XYZ' kWh za rok, založená na výsledcích normalizované zkoušky. Skutečná spotřeba energie závisí na způsobu použití a umístění spotřebiče.

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[Slovak-SK]

1 Úniky chladiva prispievajú k zmene klímy. Chladivo s nižším potenciálom prispievania ku globálnemu otepľovaniu (GWP) by pri úniku do atmosféry prispelo ku globálnemu otepľovaniu v nižšej miere ako chladivo s vyšším GWP. Toto zariadenie obsahuje chladiacu kvapalinu s GWP rovnajúcim sa [xxx]. Znamená to, že ak by do atmosféry unikol 1 kg tejto chladiacej kvapaliny, jej vplyv na globálne otepľovanie by bol [xxx] krát vyšší ako vplyv 1 kg CO2, a to počas obdobia 100 rokov. Nikdy sa nepokúšajte zasahovať do chladiaceho okruhu alebo demontovať výrobok a vždy sa obráťte na odborníka.

2 Spotreba energie XYZ kWh za rok na základe výsledkov štandardného preskúšania. Skutočná spotreba energie bude závisieť od toho, ako sa zariadenie používa a kde je umiestnené.

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[Romanian-RO]

1 Scurgerea de agent frigorific contribuie la schimbările climatice. Dacă s-ar scurge în atmosferă, agenții frigorifici cu un potențial de încălzire globală (GWP) mai redus ar contribui într-un mod mai puțin semnificativ la încălzirea globală decât un agent frigorific cu un GWP mai ridicat. Acest aparat conține un fluid refrigerant cu un GWP egal cu [xxx]. Aceasta înseamnă că, dacă 1 kg din acest fluid refrigerant s-ar scurge în atmosferă, impactul asupra încălzirii globale ar fi de [xxx] ori mai mare decât 1 kg de CO2 pe o perioadă de 100 de ani. Nu încercați să interveniți în circuitul agentului frigorific sau să demontați singur produsul, apelați întotdeauna la un specialist.

2 Consum de energie de «XYZ» kWh pe an, pe baza rezultatelor testelor standard. Consumul real de energie va depinde de modul de utilizare a aparatului și de locul unde este amplasat.

3 Consum de energie de «XYZ» kWh pe an, pe baza rezultatelor testelor standard. Consumul de energie real depinde de condițiile de utilizare a aparatului și de locul unde este amplasat.

Appendix

[Bulgarian-BG]

1 Изпускането на хладилен агент допринася за изменението на климата. Хладилен агент с по-нисък потенциал за глобално затопляне (ПГЗ) би допринесъл по-малко за глобалното затопляне, отколкото хладилен агент с по-висок ПГЗ при евентуално изпускане в атмосферата. Настоящият уред съдържа хладилен агент с ПГЗ в размер на [xxx]. Това означава, че ако 1 kg от хладилния агент бъде изпуснат в атмосферата, въздействието за глобално затопляне ще бъде [xxx] пъти повече, отколкото от 1 kg CO2 за период от 100 години. Никога не се опитвайте да се намесвате в работата на кръга на хладилния агент или сами да разглобявате уреда, а винаги се обръщайте към специалист.

2 XYZ" в kWh годишно, въз основа на резултати от стандартно изпитване. Действителната консумация на енергия ще зависи от това как се използва уредът и къде се намира той.

3 XYZ" в kWh годишно, въз основа на резултати от стандартно изпитване. Действителната консумация на енергия ще зависи от това как се използва уредът и къде се намира той.

[Croatian-HR]

1 Istjecanje rashladnih sredstava doprinosi klimatskim promjenama. U slučaju ispuštanja u atmosferu rashladno sredstvo s nižim potencijalom globalnog zagrijavanja (GWP) manje bi utjecalo na globalno zagrijavanje od rashladnog sredstva s višim GWP-om. Taj uređaj sadrži rashladnu tekućinu s GWP-om jednakim [xxx]. To znači da bi u slučaju istjecanja 1 kg te rashladne tekućine u atmosferu, njezin utjecaj na globalno zagrijavanje bio [xxx] puta veći od utjecaja 1 kg CO2 tijekom razdoblja od 100 godina. Nikada sami ne pokušavajte raditi bilo kakve zahvate na rashladnom krugu niti rastavljati proizvod i za to uvijek zovite profesionalca.

2 Potrošnja energije XYZ kWh na godinu, na temelju rezultata standardnih ispitivanja. Stvarna potrošnja energije ovisi o načinu uporabe uređaja i o mjestu na kojem se nalazi.

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[Slovenian-SL]

1 Puščanje hladilnih sredstev prispeva k podnebnim spremembam. V primeru izpusta v ozračje bi hladilno sredstvo z nižjim potencialom globalnega segrevanja (GWP) k globalnemu segrevanju prispevalo manj kot hladilno sredstvo z višjim GWP. Ta naprava vsebuje hladilno tekočino z GWP, enakim [xxx]. To pomeni, da bi bil v obdobju 100 let vpliv na globalno segrevanje v primeru izpusta v ozračje 1 kg zadevne hladilne tekočine [xxx] večji od 1 kg CO2. Nikoli ne poskušajte sami spremeniti hladilnega obtoka ali razstaviti naprave in za to vedno prosite strokovnjaka.

2 Letna poraba energije ‚XYZ' kWh na leto na podlagi rezultatov standardnega preskusa. Dejanska poraba energije je odvisna od načina uporabe naprave in njene lokacije.

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[Danish-DA]

1 Kølemiddeludslip medvirker til klimaforandringerne. Slipper kølemidlet ud i atmosfæren, bidrager det mindre til den globale opvarmning, hvis dets potentiale for global opvarmning (GWP) er lavt, end hvis det er højt. Dette apparat indeholder en kølevæske, hvis GWP-tal er [xxx]. Det betyder, at lækkes 1 kg af dette kølemiddel til atmosfæren, så vil det gennem en periode på 100 år bidrage [xxx] gange mere til den globale opvarmning end 1 kg CO2. Prøv aldrig at pille ved kølemiddelkredsløbet eller at skille produktet ad selv - overlad altid det til en fagmand.

2 Elforbrug »XYZ« kWh pr. år på grundlag af standardiserede prøvningsresultater. Det faktiske energiforbrug vil afhænge af, hvordan apparatet anvendes, og hvor det er placeret.

3 Elforbrug »XYZ« kWh pr. år, på grundlag af standardiserede prøvningsresultater. Det faktiske energiforbrug vil afhænge af, hvordan apparatet anvendes, og hvor det er placeret.

[Swedish-SV]

1 Läckage av köldmedium bidrar till klimatförändringen. Köldmedium med lägre global uppvärmningspotential (GWP) skulle vid läckare ge upphov till mindre global uppvärmning än ett köldmedium med högre GWP. Den här apparaten innehåller ett köldmedium med GWP motsvarande [xxx]. Det betyder att om 1 kg av köldmediet skulle läcka ut i atmosfären, skulle påverkan på den globala uppvärmningen vara [xxx] gånger högre än 1 kg CO2 under en hundraårsperiod. Försök aldrig själv montera isär produkten eller mixtra med köldmediekretsloppet. Rådfråga alltid en fackutbildad person.

2 Energiförbrukning 'XYZ' i kWh per år, baserat på resultat från standardiserade provningar. Den faktiska energiförbrukningen beror på hur apparaten används och var den placeras.

3 Energiförbrukning 'XYZ' i kWh per år, baserat på resultat från standardiserade provningar. Den verkliga energiförbrukningen beror på hur apparaten används och var den placeras.

[Finnish-FI]

1 Kylmäainevuodot vaikuttavat ilmastonmuutokseen. Kylmäaineen, jolla on alhaisempi ilmakehän lämmitysvaikutuspotentiaali (GWP), ilmastonmuutosvaikutus olisi pienempi kuin korkeamman GWP-arvon kylmäaineen, jos kylmäainetta pääsisi ilmakehään. Tämä laite sisältää kylmäainetta, jonka GWP-arvo on [xxx]. Tämä tarkoittaa, että jos yksi kilo tätä kylmäainetta pääsisi ilmakehään, sen vaikutus ilmaston lämpenemiseen olisi [xxx] kertaa suurempi kuin yhdellä kilolla hiilidioksidia 100 vuoden ajanjaksolla. Älä koskaan yritä kajota kylmäainepiiriin tai purkaa tuotetta omin päin, vaan pyydä aina ammattilaisen apua.

2 Energiankulutus 'XYZ' kWh vuodessa laskettuna vakio-olosuhteissa. Tosiasiallinen energiankulutus riippuu laitteen käyttötavoista ja laitteen sijoituksesta.

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[Estonian-ET]

1 Külmutusaine leke hoogustab kliima soojenemist. Atmosfääri sattumisel annab madalama ülemaailmset soojenemist põhjustava mõju (GWP) väärtusega külmutusaine väiksema panuse ülemaailmsesse kliimasoojenemisse kui kõrgema GWP väärtusega külmutusaine. Seade sisaldab külmutusvedelikku, mille GWP väärtus on [xxx]. See tähendab, et kui 1 kg seda külmutusvedelikku satub atmosfääri, annab see 100 aasta jooksul [xxx] korda suurema panuse ülemaailmsesse kliimasoojenemisse kui 1 kg CO2. Ärge kunagi püüdke ise muuta külmutusaine voolusüsteemi, samuti ärge püüdke seadet ise koost lahti võtta, vaid pöörduge alati spetsialisti poole.

2 Energiatarbimine XYZ kilovatt-tundi aastas, põhineb standardtingimustes mõõdetud tulemustel. Tegelik energiatarbimine oleneb seadme kasutusviisist ja asukohast.

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[Latvian-LV]

1 Aukstumaģentu noplūdes veicina klimata pārmaiņas. Aukstumaģenta noplūdes gadījumā ierīces ar zemāku aukstumaģenta globālās sasilšanas potenciālu (GSP) nodara mazāku kaitējumu videi. Šajā ierīcē atrodas dzesēšanas šķidrums, kura globālās sasilšanas potenciāls GSP ir [xxx]. Tas nozīmē, ka, ja vidē nokļūst 1 kg šā dzesēšanas šķidruma, ietekme uz globālo sasilšanu 100 gadu laikā ir [xxx] reizes lielāka nekā 1 kg CO2. Nekādā gadījumā neiejaucaties dzesēšanas ķēdes darbībā un nemēģiniet izjaukt ierīci. Vienmēr uzticiet to kvalificētam speciālistam.

2 Elektroenerģijas patēriņš "XYZ" kWh gadā, pamatojoties uz standarta testu rezultātiem. Faktiskais elektroenerģijas patēriņš atkarīgs no ierīces izmantošanas veida un atrašanās vietas.

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Appendix

[Lithuanian-LT]

1 Šaldalo nuotėkis prisideda prie klimato kaitos. Jei šaldalo nutekėtų į atmosferą, mažesnį visuotinio atšilimo potencialą turintis šaldalas mažiau prisidėtų prie visuotinio atšilimo negu didesnį visuotinio atšilimo potencialą turintis šaldalas. Šiame prietaise yra skysto šaldalo, kurio visuotinio atšilimo potencialas yra [xxx]. Tai reiškia, kad jei 1 kg šio šaldalo nutekėtų į atmosferą, poveikis visuotiniam atšilimui būtų [xxx] kartų didesnis negu 1 kg CO2 nuotėkio per 100 metų. Niekada nebandykite patys taisyti šaldalo kontūro ar išrinkti prietaiso. Visuomet kreipkitės į profesionalus.

2 Suvartojamos energijos kiekis – „XYZ“ kWh per metus, grindžiamas įprasto bandymo rezultatais. Faktinis suvartojamos energijos kiekis priklauso nuo to, kaip prietaisas naudojamas ir kur jis pastatytas.

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[Serbian-SR]

1 Curenje rashladnog sredstva doprinosi klimatskim promenama. Ako iscuri u atmosferu, rashladno sredstvo s nižim potencijalom globalnog zagrevanja (GWP) manje će doprineti globalnom zagrevanju nego rashladno sredstvo sa višim potencijalom globalnog zagrevanja. Ovaj uređaj sadrži rashladnu tečnost sa vrednošću GWP od [2088]. To znači da, ako 1 kg ove rashladne tečnosti iscuri u atmosferu, uticaj na globalno zagrevanje će biti [2088] puta veći nego da iscuri 1 kg CO2, posmatrano u periodu od 100 godina. Ne pokušavajte sami da zamenite rashladno sredstvo niti da rasklopite proizvod, već uvek zatražite pomoć stručnjaka.

2 Potrošnja energije „XYZ“ kWh godišnje, na osnovu rezultata standardnog testa. Stvarna potrošnja energije zavisi od toga kako se uređaj koristi i gde je smešten.

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Troubleshooting

The table below lists the self-diagnostic routines. For some of error codes, you must contact an authorized service centre. If an error occurs during the operation, it is displayed on the outdoor unit PCB LED, both MAIN PCB and INVERTER PCB.

No.	Error Code	Meaning	Remarks
1	E198	Error on thermal fuse of indoor unit (Open)	
2	E201	Error due to mismatching unit quantity between indoor and outdoor units	Check indoor quantity setting for the outdoor
3	E202	Communication error between indoor and outdoor units	Check electrical connection and setting
4	E203	1-minute time out error in communication (between Main and Inverter)	Check electrical connection and setting
5	E221	Error on outdoor temperature sensor	Check Outdoor sensor Open / Short
6	E231	Error on outdoor Cond. tempt sensor (Short or Open)	Check Cond. sensor Open / Short
7	E251	Error on discharge temperature sensor of compressor	Check Discharge sensor Open / Short
8	E320	Error on OLP sensor	Check OLP sensor Open / Short
9	E403	Compressor stop due to freeze protection control	Check Outdoor Cond.
10	E404	System stop due to overload protection control	Check Comp. when it starts
11	E416	System stop due to discharge temperature	-
12	E422	Error on EEV or valve close	1. Check if the service valve is open 2. Check for refrigerant leakage (pipe connections, heat exchanger) and charge refrigerant if necessary 3. Check if there's any blockage on the refrigerant cycle (indoor unit/outdoor unit) 4. Check if additional refrigerant has been added after pipe extension
13	E440	Heating operation restricted at outdoor temperature over 30°C	Heating
14	E441	Cooling operation restricted at outdoor temperature below -15°C	Cooling
15	E458	Error on inverter fan 1	FAN1 error
16	E461	Error due to operation failure of inverter compressor	-
17	E462	System stop due to full current control	-
18	E463	Over current trip / PFC over current error	Check OLP sensor
19	E464	IPM (IGBT Module) Over Current (O.C)	-
20	E465	Error due to over current to compressor	-
21	E466	DC-Link voltage under/over error	Check AC Power and DC Link Voltage
22	E467	Error due to unconnected wire of compressor	Check Comp wire
23	E468	Error on current sensor	Check Outdoor Inverter PBA.

Appendix

No.	Error Code	Meaning	Remarks
24	E470	Outdoor unit EEPROM Checksum error	Check Outdoor EEPROM Data
25	E471	Outdoor unit EEPROM error	Check Outdoor EEPROM PBA
26	E474	Error on IPM (IGBT Module) or PFCM temperature sensor	Check Outdoor Inverter PBA
27	E475	Error on inverter fan 2	FAN2 error
28	E484	PFC overload (over current) error	Check Outdoor Inverter PBA
29	E500	IPM overheat error	Check Outdoor Inverter PBA
30	E508	Error due to not using Smart Install	Check indoor option code
31	E554	Gas leak detected	Check indoor and outdoor unit model
32	E556	Error due to mismatching capacity of indoor and outdoor units	Check indoor and outdoor unit model
33	E557	Error due to mismatching option code among the indoors (only for DPM)	Check indoor option code
34	E590	Inverter EEPROM Checksum error	Check Outdoor Inverter PBA

Memo

Memo

Appendix

Memo

SAMSUNG