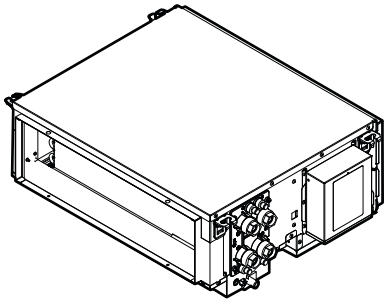
Installation and operation manual



Fan coil units



FWE-04FB
FWE-05FB
FWE-06FB
FWE-08FB
FWE-10FB
FWE-12FB
FWE-14FB
FWE-16FB
FWE-20FB
FWE-24FB

Installation and operation manual
Fan coil units

English

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1 About the documentation

1.1 About this document

WARNING

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.

Target audience

Authorised installers + end users

INFORMATION

This appliance is intended to be used in commercial, industrial or business environment.

Documentation set

This document is part of a documentation set. The complete set consists of:

- **General safety precautions:**
  - Safety instructions that you must read before installing
  - Format: Paper (in the box of the indoor unit)
- **Indoor unit installation and operation manual:**
  - Installation and operation instructions
  - Format: Paper (in the box of the indoor unit)
  - Format: Digital files on https://www.daikin.eu. Use the search function to find your model.

The latest revision of the supplied documentation is published on the regional Daikin website and is available via your dealer.

The original instructions are written in English. All other languages are translations of the original instructions.

Technical engineering data

- A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible).
- The **full set** of the latest technical data is available on the Daikin Business Portal (authentication required).

1.2 Meaning of warnings and symbols

DANGER

Indicates a situation that results in death or serious injury.

DANGER: RISK OF ELECTROCUTION

Indicates a situation that could result in electrocution.

DANGER: RISK OF BURNING/SCALDING

Indicates a situation that could result in burning/scalding because of extreme hot or cold temperatures.

WARNING
Indicates a situation that could result in death or serious injury.

CAUTION
Indicates a situation that could result in minor or moderate injury.

NOTICE
Indicates a situation that could result in equipment or property damage.

INFORMATION
Indicates useful tips or additional information.

Symbols used on the unit:

Symbol	Explanation
	Before installation, read the installation and operation manual, and the wiring instruction sheet.

1.3 General

If you are NOT sure how to install or operate the unit, contact your dealer.

WARNING
Improper installation or attachment of equipment or accessories could result in electrical shock, short-circuit, leaks, fire or other damage to the equipment. ONLY use accessories, optional equipment and spare parts made or approved by Daikin unless otherwise specified.

WARNING
Make sure installation, testing and applied materials comply with applicable legislation (on top of the instructions described in the Daikin documentation).

CAUTION
Wear adequate personal protective equipment (protective gloves, safety glasses,…) when installing, maintaining or servicing the system.

WARNING
Tear apart and throw away plastic packaging bags so that nobody, especially children, can play with them. **Possible consequence:** suffocation.

WARNING
Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.

CAUTION
Do NOT touch the air inlet or aluminium fins of the unit.

CAUTION
- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

DANGER: RISK OF ELECTROCUTION
- Make sure that the system is earthed properly.
- Turn OFF the power supply before servicing.
- Install the switch box cover before turning ON the power supply.

CAUTION
- Check if the installation location can support the unit's weight. Poor installation is hazardous. It can also cause vibrations or unusual operating noise.
- Provide sufficient service space.
- Do NOT install the unit so that it is in contact with a ceiling or a wall, as this may cause vibrations.

DANGER: RISK OF ELECTROCUTION
Do NOT operate the fan coil units with wet hands. An electrical shock may result.

WARNING
This unit contains electrical and hot parts.

WARNING
If the supply cord is damaged, it MUST be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

WARNING
Make sure installation, servicing, maintenance and repair comply with instructions from Daikin and with applicable legislation (for example national gas regulation) and are executed ONLY by authorised persons.

WARNING
Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe, EN378 is the applicable standard.

WARNING
Keep the interconnection wiring away from copper pipes without thermal insulation as such pipes will be very hot.

CAUTION
For walls containing a metal frame or a metal board, use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.

NOTICE
- The pipework shall be securely mounted and protected from physical damage.
- Keep the pipework installation to a minimum.

WARNING
- Do NOT use locally purchased electrical parts inside the product.
- Do NOT branch the power supply for the valve etc. from terminal block. This could result in electrical shock or fire.

For the installer

3 About the box

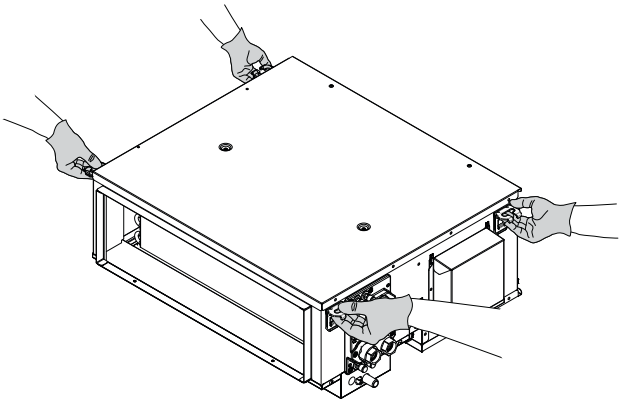
Keep the following in mind:

- At delivery, the unit MUST be checked for damage and completeness. Any damage or missing parts MUST be reported immediately to the claims agent of the carrier.
- Bring the packed unit as close as possible to its final installation position to prevent damage during transport.
- Prepare in advance the path along which you want to bring the unit to its final installation position.

3.1 To unpack and handle the fan coil unit

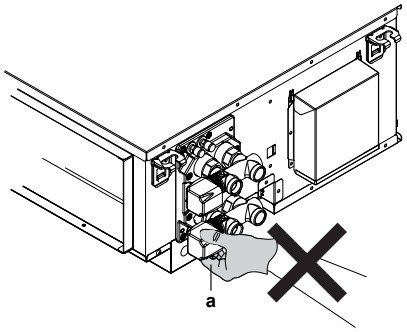
Use a sling of soft material or protective plates together with a rope when lifting the unit. This to avoid damage or scratches to the unit.

1 Lift the unit by holding onto the hanger brackets without exerting any pressure on other parts, especially on drain piping and thermal insulation.



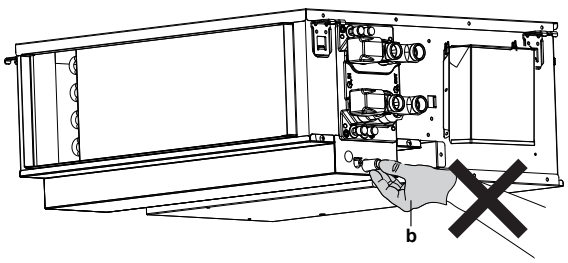
NOTICE

Do NOT lift the unit by the valve actuators (a).



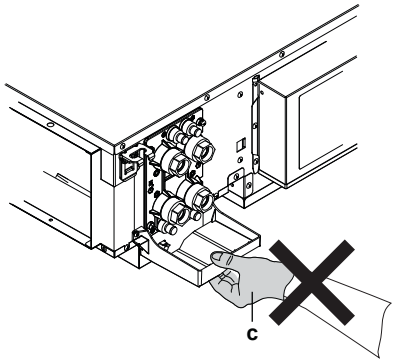
NOTICE

Do NOT lift the unit by the drain pan socket (b).

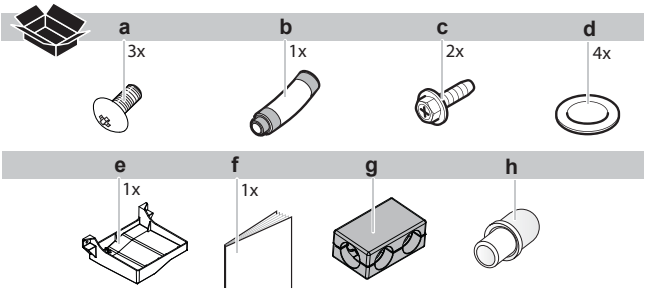


NOTICE

Do NOT lift the unit by subdrain pan (c).



3.2 To remove the accessories from the fan coil unit



a	Screw M4 for sub drain pan 2x and drain hose 1x
b	Drain hose
c	Screw M5 for FWECSAP 2x
d	Gasket
e	Sub drain pan
f	Installation and operation manual
g*	Thermal insulation for valves (2 pipe: 1x and 4 pipe: 2x)
h	Flare cap

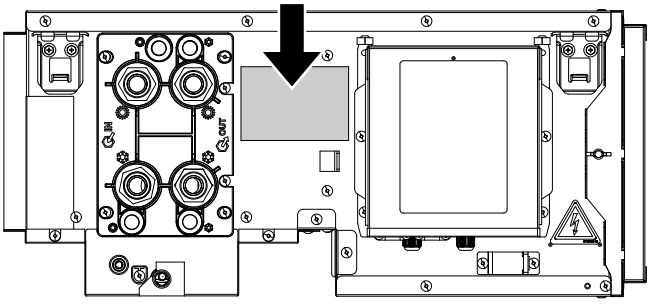
*Only models with factory mounted valve

4 About the units and options

4.1 Identification

4.1.1 Identification label: Fan coil unit

Location



Model identification

Example: FW E 04 F B T N 5 V1 --

Code	Description
FW	Water fan coil unit
E	Duct Low ESP
F	Major model series
B	Minor model change
T	2 pipe
F	4 pipe
N	Without valve
V	3 way valve (ON/OFF - 230 V)
T	2 way valve (ON/OFF - 230 V)
5	Hendek factory
V1	1 Ph / 50 Hz / 220-240 V
-	No option
-	Left side water, left side electric connection
R	Right side water, right side electric connection

5 Unit installation

5.1 Preparing the installation site

WARNING

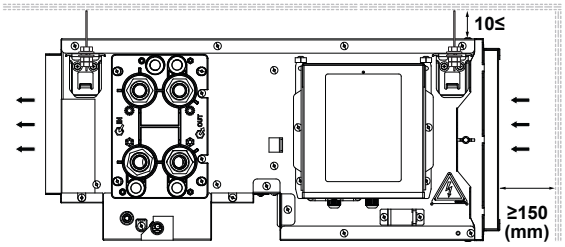
ALWAYS use non-flammable ducts, thermal insulations and couplings; flammable materials may cause a fire.

NOTICE

The unit must be installed ≥2.5 m from the floor.

NOTICE

The spacing between ceiling and unit should be ≥10 mm and the suction space should be ≥150 mm.



INFORMATION

The sound pressure level is less than 70 dBA.

CAUTION

Appliance is NOT accessible to the general public. Install it in a secured area, protected from easy access.

This unit is suitable for installation in a commercial and light industrial environment.

NOTICE

Where installation from below is NOT possible, such as very high ceilings, access to the unit for installation and service should be possible from the top of the ceiling.

Select an installation site that fulfills the following conditions and meets with your customer's approval.

- The space around the unit is adequate for maintenance and servicing. The space around the unit allows sufficient air circulation and air distribution. See space required for installation.
- Make sure the area is well ventilated. Do NOT block any ventilation openings.
- Make sure the installation site withstands the weight and vibration of the unit.
- Ensure that in the event of a water leak, no damage occurs to the installation space or its surroundings.
- Choose a location where the operation noise or the hot/cold air discharged from the unit will not disturb anyone and the location is selected according the applicable legislation.
- **Drainage.** Make sure condensation water can be evacuated properly.
- In places with weak reception, keep distances of 3 m or more to avoid electromagnetic disturbance of other equipment and use conduit tubes for power and transmission lines.
- **Fluorescent lights**. When installing a wireless remote control (user interface) in a room with fluorescent lights, mind the following to avoid interference:
  - Install the wireless remote control (user interface) as close as possible to the indoor unit.
  - Install the indoor unit as far as possible from the fluorescent lights.

Do NOT install the unit in places often used as work place. In case of construction works (e.g. grinding works) where a lot of dust is created, the unit MUST be covered.

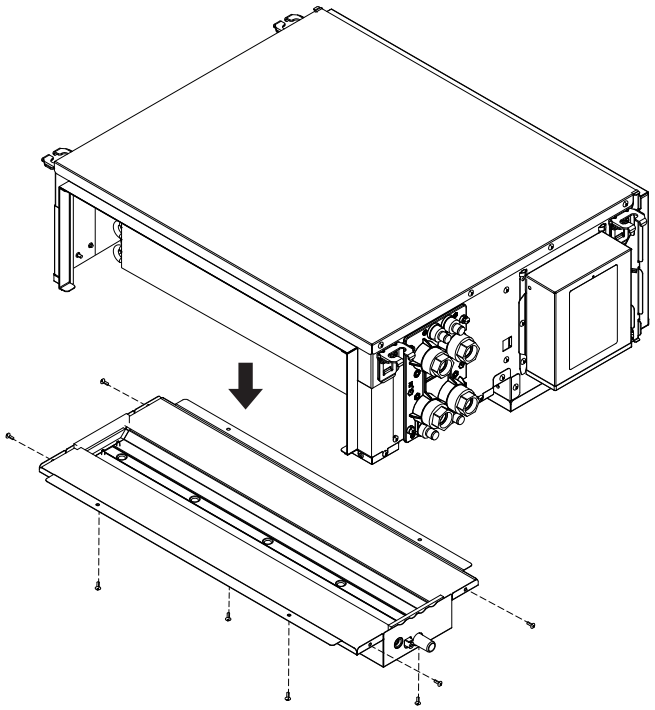
Do not install or operate the unit in rooms mentioned below.

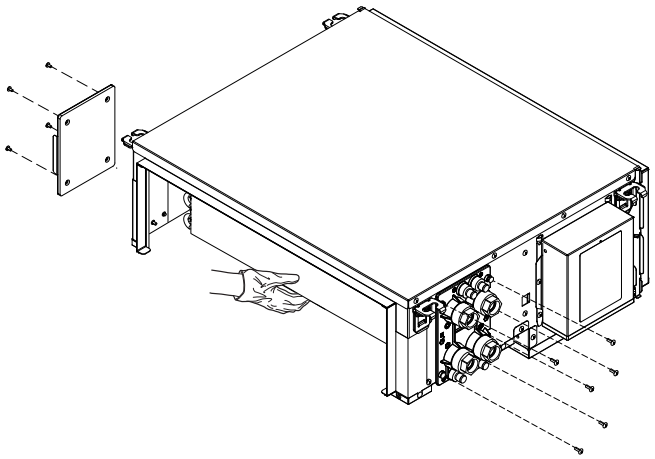
- Places with mineral oil, or filled with oil vapour or spray, like in kitchens (plastic parts may deteriorate).
- Where corrosive gas like sulphurous gas exists. Copper tubing and brazed spots may corrode.
- Where the air contains high levels of salt, such as that near the coast and where voltage fluctuates a lot (e.g. in factories). Also in vehicles or vessels.
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
- In places where there is a risk of fire due to the leakage of flammable gases (example: thinner or gasoline), carbon fibre, ignitable dust.
- The unit can NOT be installed in a bathroom.

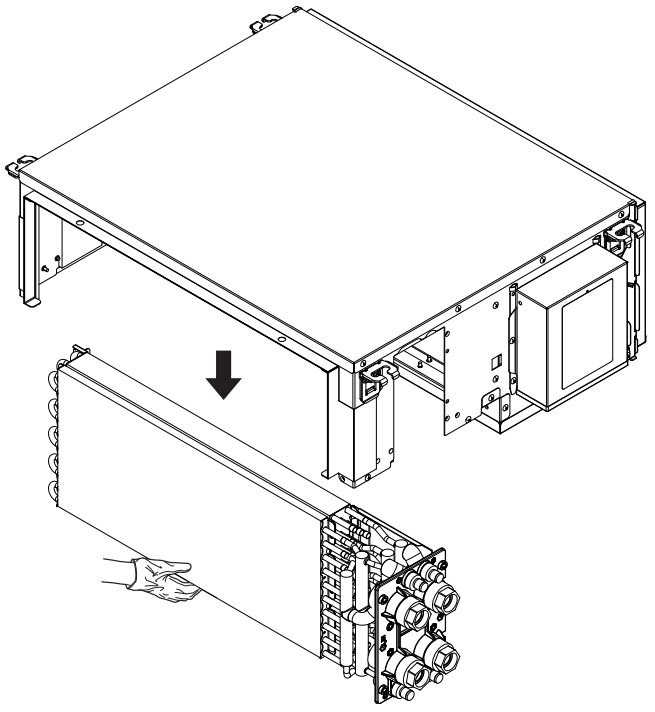
5.2 Interchangeability

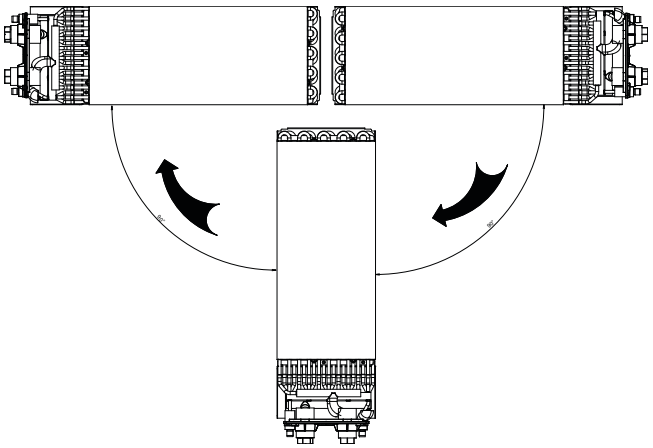
The direction of the product can be changed while the unit is either placed on the ground or suspended.

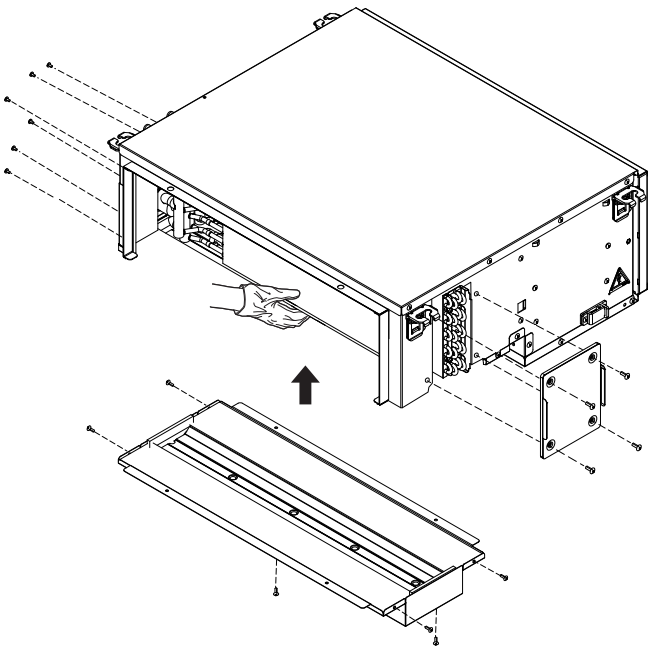
Remove the cover sheet metal on the side plate of the unit.





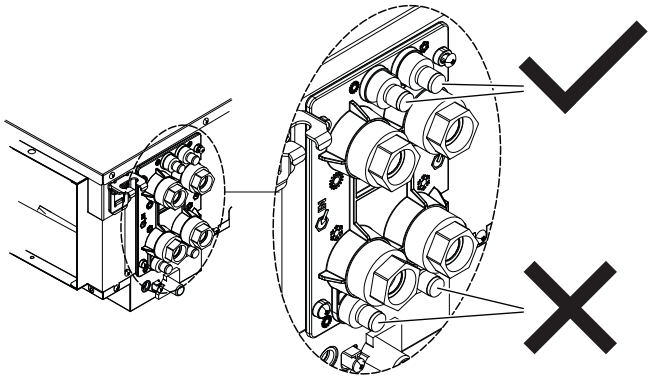






NOTICE

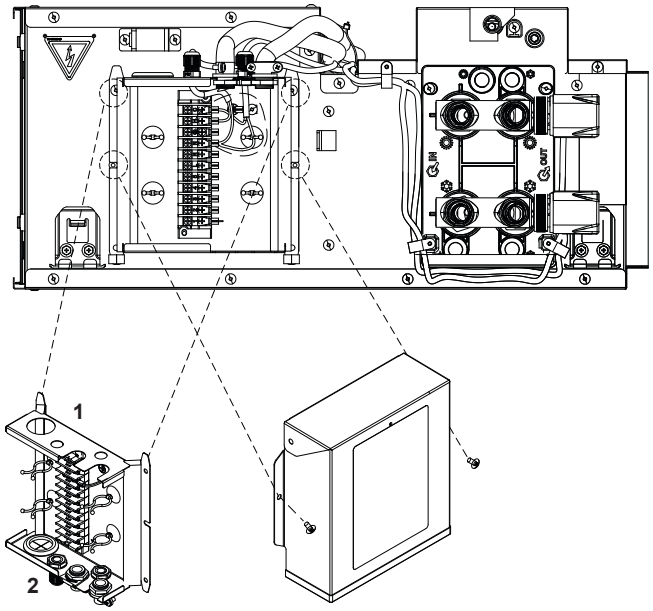
Always use upper air purges.



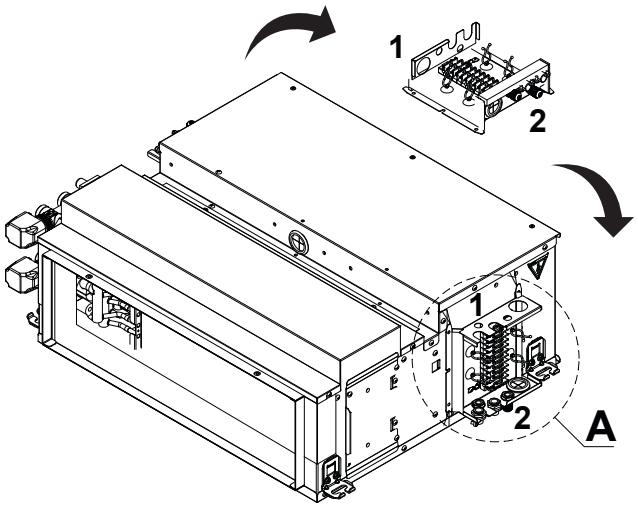
Interchangeability of electric components

To change the product direction, the Daikin Valve Cable Kit EKER015A must be used.

1-

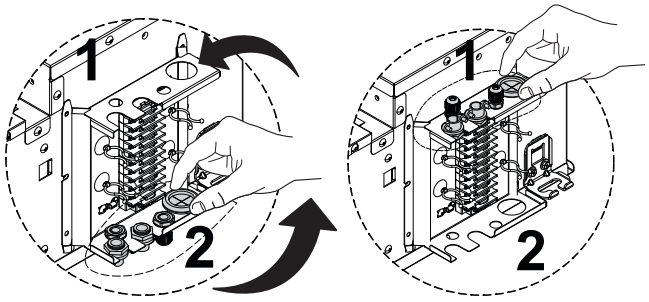


2-

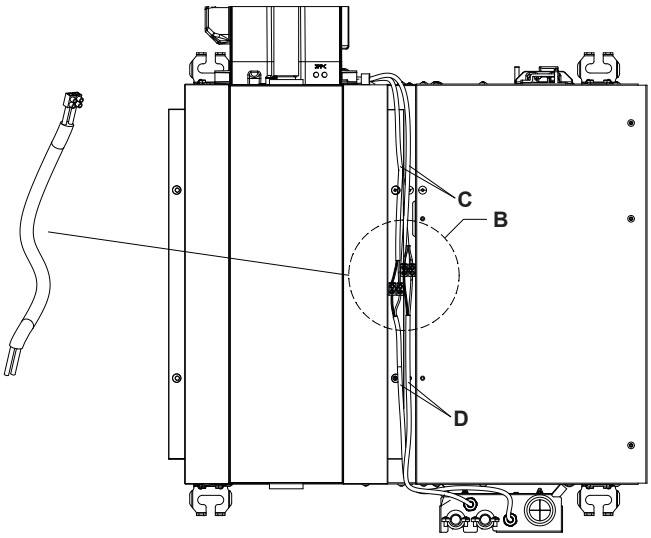


Details A

2-a



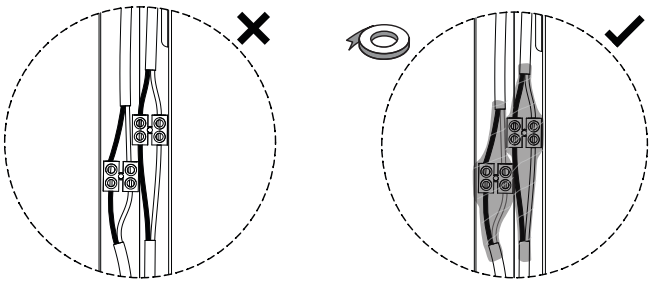
3-



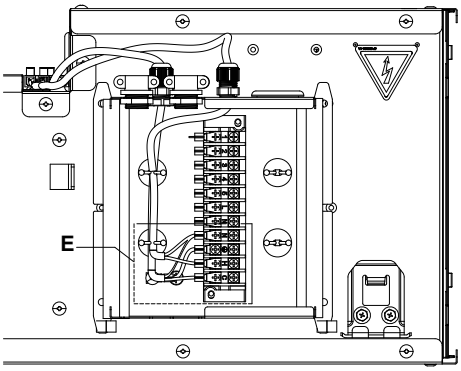
C Valve cables
D Kit cables

Details B

3-a

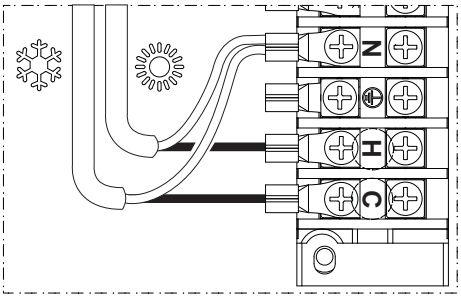


4-



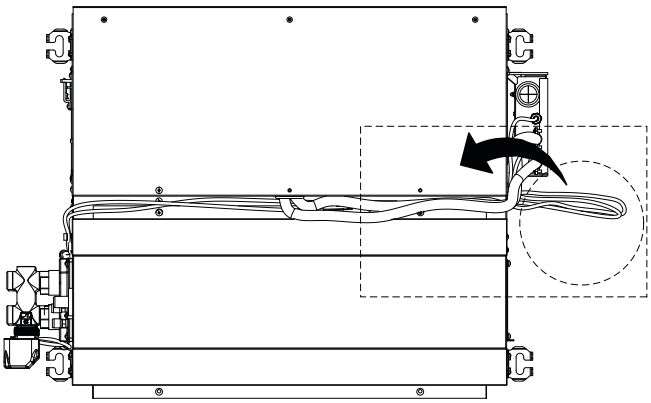
Details E

4-a

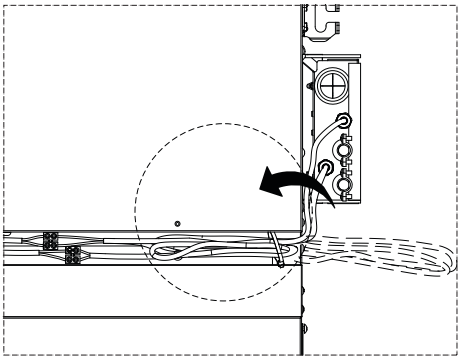


, H	Heating
, C	Cooling

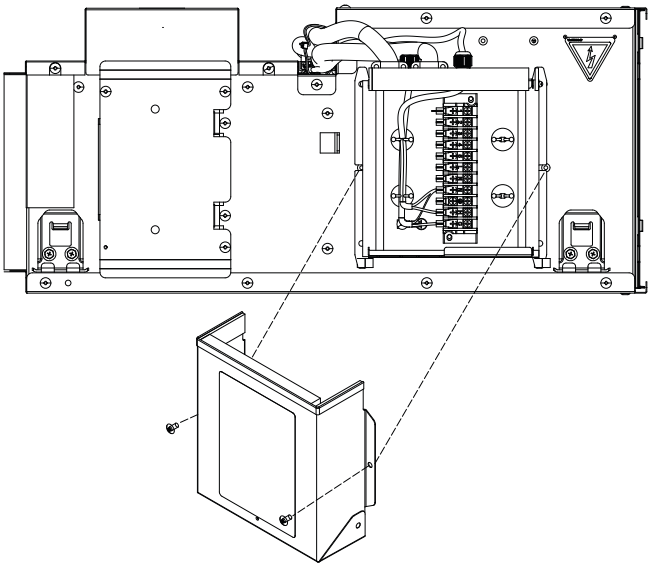
5-



6-



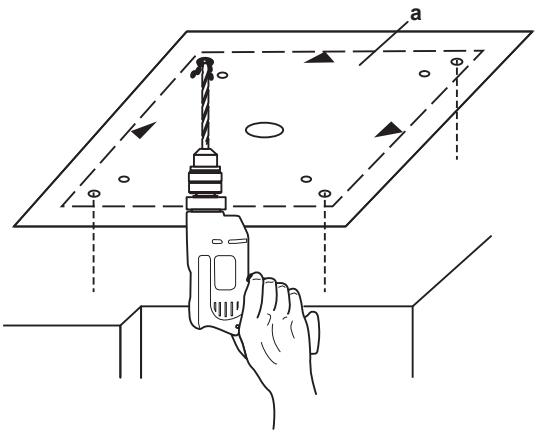
7-



5.3 Mounting the unit

5.3.1 To install the suspension bolts

Use the pattern to determine the suspension bolt positions (upper part of the packing). Suspension bolt positions are indicated on the paper pattern. Holes can be drilled by putting the paper pattern on the ceiling.

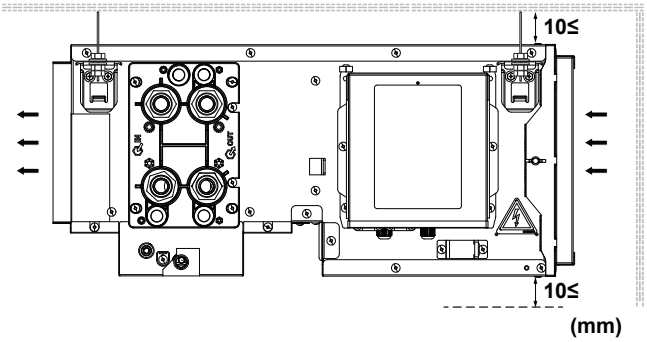


a Paper pattern for installation. (upper part of the packing)

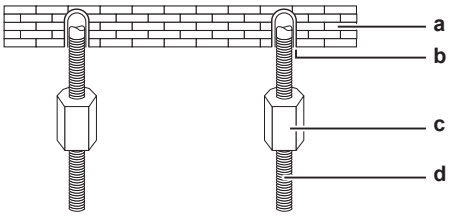
5.3.2 To mount the unit

Make the required ceiling opening for installation in an applicable place. It may be necessary to reinforce the suspended ceiling frame to keep the ceiling frame to keep the ceiling level and to prevent it from vibrating.

Consult the builder for details.

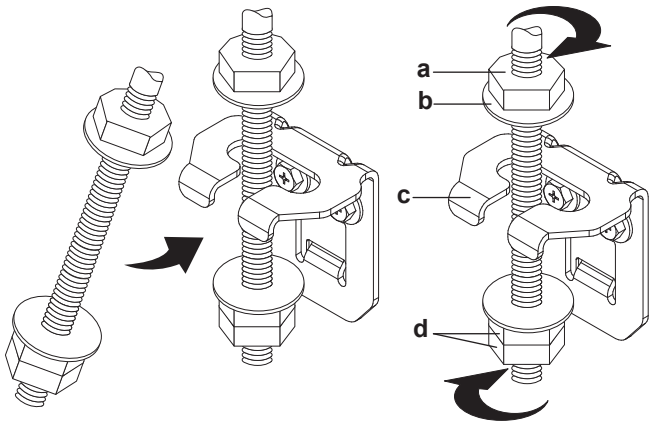


- **Ceiling strength**. Check whether the ceiling is strong enough to support the weight of the unit. If there is a risk, reinforce the ceiling before installing the unit.
  - For existing ceilings, use anchors.
  - For new ceilings, use sunken inserts, sunken anchors or other field supplied parts.



a Ceiling slab
b Anchor
c Long nut or turn-buckle
d Suspension bolt

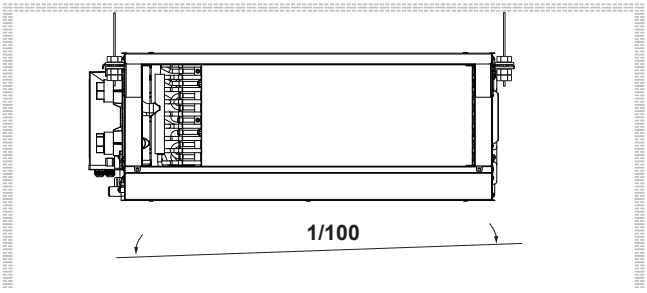
- **Suspension bolts.** Use M8~M10 suspension bolts for installation. Attach the hanger bracket to the suspension bolt. Fix it securely using a nut and washer from the upper and lower sides of the hanger bracket.



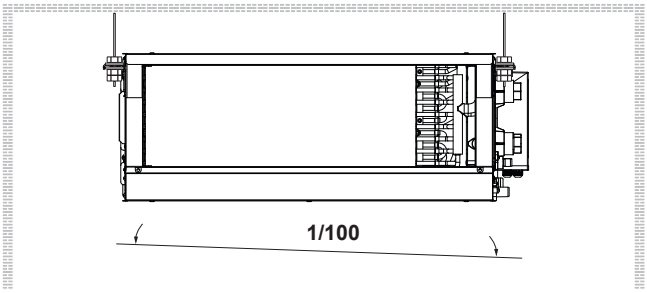
a Nut (field supply)
b Washer (field supply)
c Hanger bracket
d Double nut (field supply)

- . Adjust the unit to the correct position for installation.

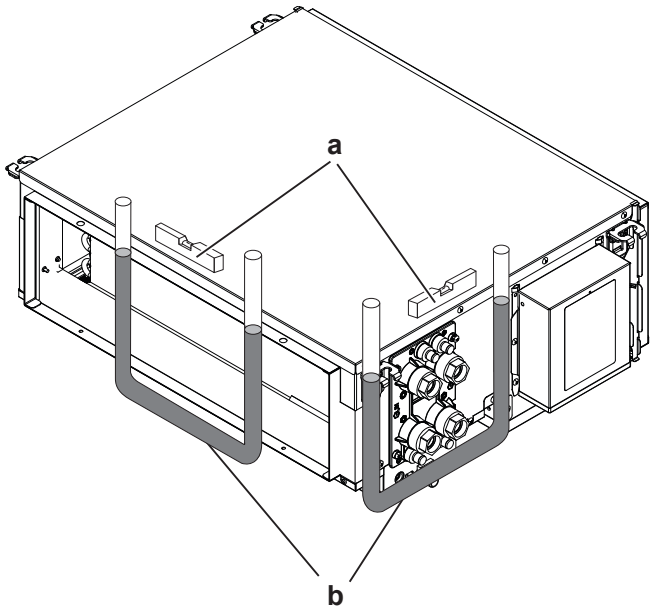
For left models (FWE**FB--**):**



For right models (FWE**FB-R**):**



- Check if the unit is horizontally levelled.
- **Level**. Make sure the unit is level at all 4 corners using a level or a water-filled vinyl tube.



a Level
b Vinyl tube

NOTICE

Do NOT install the unit tilted. **Possible consequence:** If the unit is tilted against the direction of the condensate flow (the drain piping side is raised), water may drip.

5.4 Water piping installation

5.4.1 Preparing water piping

Before performing the water piping work, check the following points:

- The maximum water pressure is 1.6 MPa.

The unit is equipped with a water inlet and water outlet for connection to the water circuit. The water circuit must be provided by an installer and must comply with the applicable legislation.

- The minimum water temperature is 5°C.
- The maximum water temperature is 90°C.
- Be sure to install components in the field piping that can withstand the water pressure and temperature.
- Provide adequate safeguards in the water circuit to ensure that the water pressure will never exceed the maximum allowable working pressure.
- Provide a proper drain for the pressure relief valve (if installed) to avoid any water from coming into contact with electrical parts.
- Provide shut-off valves at the unit so that normal servicing can be accomplished without draining the system.
- Provide drain taps at all low points of the system to permit complete draining of the circuit during maintenance or service to the unit.
- Provide air purge valves at all high points of the system. The valves shall be located at points which are easily accessible for servicing.
- Pipework shall be protected from physical damage.

NOTICE

Make sure water quality complies with EU directive 2020/2184.

NOTICE

Use of glycol is allowed, but the amount shall NOT exceed 40% of the volume. A higher amount of glycol may cause damage to the hydraulic components.

NOTICE

The unit is ONLY to be used in a closed water system. Application in an open water circuit can lead to excessive corrosion of the water piping.

5.4.2 Connecting water piping

CAUTION

Always use valves to control water circulation in the unit. If the fan coil unit is off, but water keeps circulating in the unit, condensation will form on the unit and water may drip.

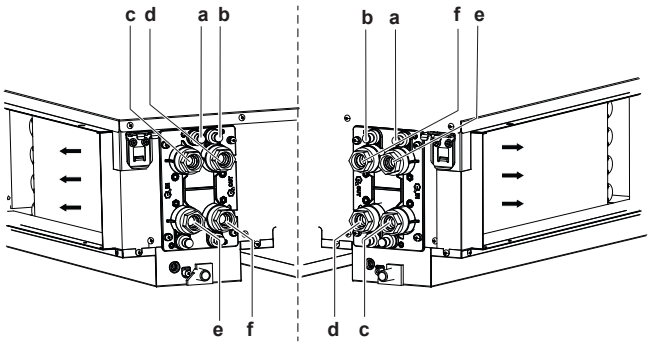
NOTICE

Do not use excessive force when connecting the piping. This could deform the unit piping. Deformation of the piping can cause the unit to malfunction.

NOTICE

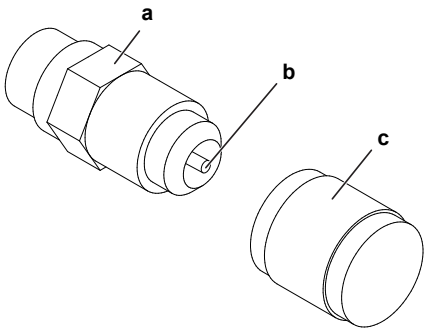
Make sure to insulate all piping. Any exposed piping might cause condensation.

DANGER: RISK OF BURNING/SCALDING



a Heating air purge
b Cooling air purge
c Hot water inlet (3/4" female BSP)
d Hot water outlet (3/4" female BSP)
e Cooling inlet (3/4" female BSP)
f Cooling outlet (3/4" female BSP)

To fill the water circuit



a Air purge
b Pressure relief valve
c Cap

During filling, it might not be possible to remove all air in the system. Remaining air can be removed during the first operating hours of the unit. The air can be removed from the unit through the manual air purge valve.

1 Open the cap.
2 Push the pressure relief valve to purge air from the unit water circuit(s).
3 Close the cap.
4 Additional filling with water afterwards might be required (but never through the air purge valve).

NOTICE

Air in the water circuit can cause malfunctioning. During filling, it may not be possible to remove all the air from the circuit. Remaining air will be removed through the automatic air purge valves during the initial operating hours of the system. Additional filling with water afterwards may be required.

NOTICE

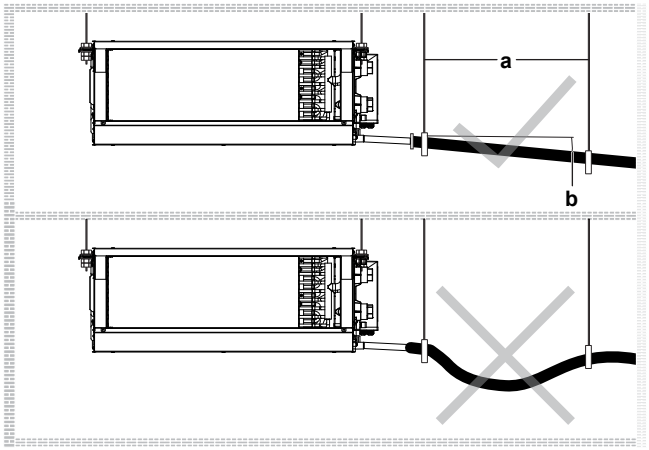
Make sure water quality complies with EU directive 2020/2184.

5.5 Drain piping installation

5.5.1 Guidelines when installing the drain piping

General guidelines

- **Pipe length.** Keep drain piping as short as possible.
- **Pipe size.** Keep the pipe size equal to or greater than that of the connecting pipe (vinyl pipe of 25 mm nominal diameter and 32 mm outer diameter).
- **Slope.** Make sure the drain piping slopes down (at least 1/100) to prevent air from being trapped in the piping. Use hanging bars as shown.
- **Condensation.** Take measures against condensation. Insulate the complete drain piping in the building.
- **Slope.** Make sure the drain piping slopes down (at least 1/50) to prevent air from being trapped in the piping. Use hanging bars as shown.



a Hanging bar
✓ Allowed
✗ Not allowed

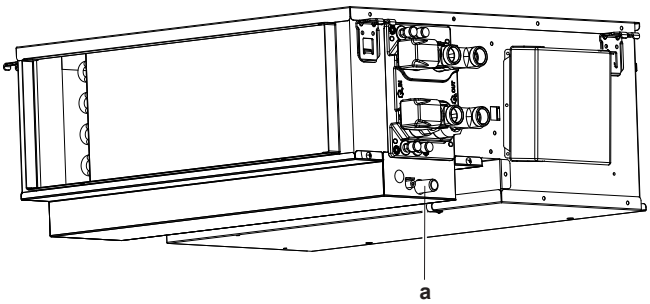
5.5.2 Connecting the drain piping

To connect the drain piping

NOTICE

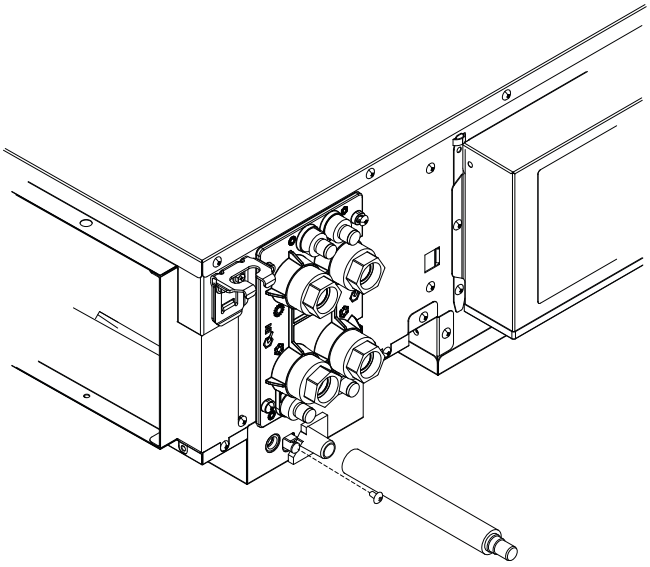
Incorrect connection of the drain hose might cause leaks, and damage the installation space and surroundings.

1 Push the drain hose as far as possible over the drain socket.
2 Tighten the screw from drain hose to drain pan's surface.
3 Check for water leaks.



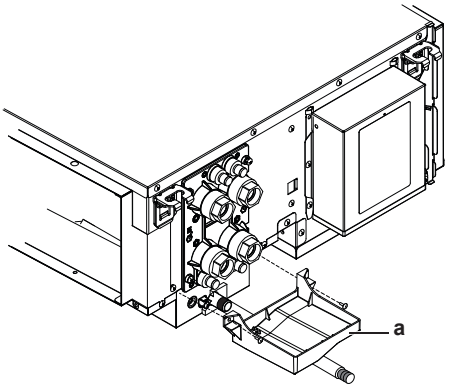
a Drain socket

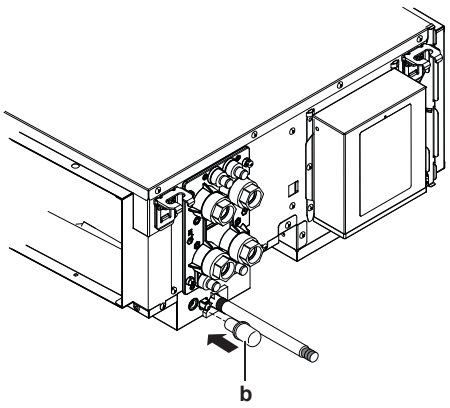
4 Insert the drain hose and tighten with fixing screw (accessory set).



NOTICE

The unit must be used with a drain hose. (Forgetting to tighten this may cause water leakages and vibrations.)





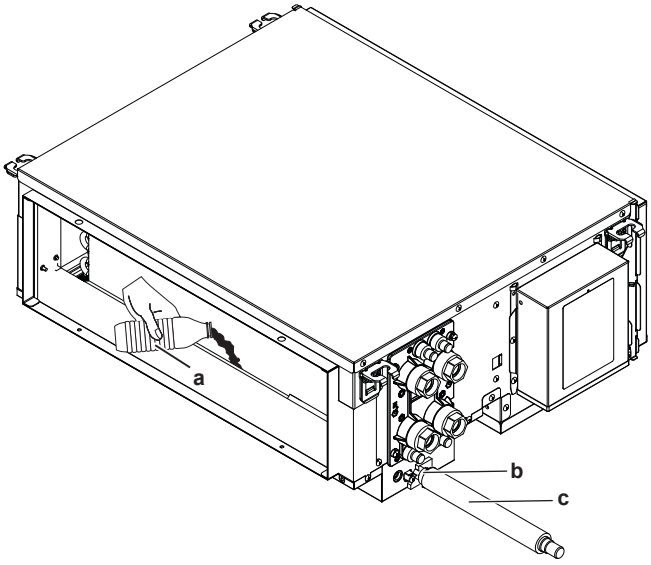
NOTICE

If the sub drain pan (a) is not used, the sub drain pan hole should be closed with a cap (b).

When electrical wiring is already finished

1 Start cooling operation.

2 Gradually pour approximately 1 l of water through the air discharge outlet, and check for leaks.



a Plastic watering can
b Drain outlet (use this outlet to drain water from drain pan)
c Drain hose

5.6 Optional equipment installation

5.6.1 Preparing of optional equipment

INFORMATION

Optional equipment. When installing optional equipment, also read the installation manual of the optional equipment. Depending on the field conditions, it might be easier to install the optional equipment first.

Optional equipment	Identification code
G2 filter	EKAF02G5A
	EKAF03G5A
2-way valve- ON/OFF (AC 230 V)	EK02WV2V3W5A
	EK08WV2V3D5A
	EK06WV2V3C5A

Optional equipment	Identification code
3-way valve- ON/OFF (AC 230 V)	EK02WV3V3W5A
	EK08WV3V3D5A
	EK06WV3V3C5A
Proportional valve (AC 24 V) 3-way 4-port valve	EK02P3V24W5A
	EK04P3V24D5A
	EK06P3V24C5A
Remote controller	FWEC3A
Remote controller (for 2 pipe)	FWEC2T
Remote controller (for 4 pipe)	FWEC4T
Remote controller (panel control board)	FWECSAP
Remote controller	FWECSAC
Remote controller	FWTOUCHW
	FWTOUCHB
	FWTOUCHG
Valve cable kit	EKER015A

5.6.2 Connecting the optional equipment

Technical specifications of the valves

Kvs value	Max. operation pressure PN (bar)	Actuator power supply
2.8	16	1 Ph, 230 V, 50-60 Hz
3.5		
6		

6 Electrical installation

DANGER: RISK OF ELECTROCUTION

WARNING

ALWAYS use multicore cable for power supply cables.

WARNING

Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps that provides full disconnection under overvoltage category III.

WARNING

If the supply cord is damaged, it MUST be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

6.1 Preparing electrical wiring

WARNING

All field wiring and components MUST be installed by a licensed electrician and MUST comply with the applicable legislation.

DANGER: RISK OF ELECTROCUTION

WARNING

A main switch or other means for disconnection, having a contact separation in all poles, MUST be incorporated in the fixed wiring in accordance with the applicable legislation.

CAUTION

- When connecting the power supply: connect the earth cable first, before making the current-carrying connections.
- When disconnecting the power supply: disconnect the current-carrying cables first, before separating the earth connection.
- The length of the conductors between the power supply stress relief and the terminal block itself MUST be as such that the current-carrying wires are tautened before the earth wire is in case the power supply is pulled loose from the stress relief.

WARNING

- After finishing the electrical work, confirm that each electrical component and terminal inside the switch box is connected securely.
- Make sure all covers are closed before starting up the unit.

WARNING

Do NOT apply any permanent inductive or capacitance loads to the circuit without ensuring that this will NOT exceed the permissible voltage and current permitted for the equipment in use.

NOTICE

The equipment described in this manual may cause electronic noise generated from radio-frequency energy. The equipment complies with specifications that are designed to provide reasonable protection against such interference. However, there is no guarantee that interference will not occur in a particular installation.

It is therefore recommended to install the equipment and electric wires in such a way that they keep a proper distance from stereo equipment, personal computers, etc.

DANGER: RISK OF ELECTROCUTION

- Turn OFF all power supply before removing the fan coil unit terminal cover when connecting electrical wiring or touching electrical parts.
- Disconnect the power supply for more than 10 minutes, and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage MUST be less than 50 V DC before you can touch electrical components. For the location of the terminals, see the wiring diagram.
- Do NOT touch electrical components with wet hands.
- Do NOT leave the unit unattended when the terminal cover is removed.

WARNING

- ONLY use copper wires.
- Make sure the field wiring complies with the applicable legislation.
- All field wiring MUST be performed in accordance with the wiring diagram supplied with the product.
- NEVER squeeze bundled cables and make sure they do NOT come into contact with the piping and sharp edges. Make sure no external pressure is applied to the terminal connections.
- Make sure to install earth wiring. Do NOT earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earthing may cause electrical shock.
- Make sure to install the required fuses or circuit breakers.
- Make sure to install an earth leakage protector. Failure to do so may cause electrical shock or fire.

6–1 Field wiring specifications

	2 Pipe									
	04	05	06	08	10	12	14	16	20	24
Maximum operating current (A)	0.27	0.27	0.38	0.44	0,48	0.53	0.81	0.88	0.88	1.06
Maximum operating current (A) with valves[(a)]	0.34	0.34	0.45	0.51	0.55	0.60	0.88	0.95	0.95	1.13
Recommended overcurrent fuse (A)	5									
Phase	1									
Frequency (Hz)	50									
Voltage (V)	220~240									
Voltage tolerance (%)	±10									
Wire size (cross section mm²)	0.75~1.25									
Earth leakage circuit breaker	Must comply with applicable legistation									

[(a)] In case of usage Daikin brand valves "Model Nr should be indicated".

6–2 Field wiring specifications

	4 Pipe									
	04	05	06	08	10	12	14	16	20	24
Maximum operating current (A)	0.26	0.26	0.37	0.43	0,50	0.56	0.79	0.87	0.83	1.04
Maximum operating current (A) with valves[(a)]	0.33	0.33	0.44	0.50	0.57	0.63	0.86	0.94	0.90	1.11
Recommended overcurrent fuse (A)	5									
Phase	1									
Frequency (Hz)	50									
Voltage (V)	220~240									
Voltage tolerance (%)	±10									
Wire size (cross section mm²)	0.75~1.25									
Earth leakage circuit breaker	Must comply with applicable legistation									

[(a)] In case of usage Daikin brand valves "Model Nr should be indicated".

6.2 Connecting the electrical wiring

DANGER: RISK OF ELECTROCUTION

WARNING

ALWAYS use multicore cable for power supply cables.

WARNING

Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps that provides full disconnection under overvoltage category III.

WARNING

If the supply cord is damaged, it MUST be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

NOTICE

Precautions when laying power wiring:



- Do NOT connect wiring of different thicknesses to the power terminal block (slack in the power wiring may cause abnormal heat).
- When connecting wiring which is the same thickness, do as shown in the figure above.
- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will damage the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

NOTICE

- Follow the wiring diagram (delivered with the unit, located at the inside of the service cover).
- For instructions on how to connect the optional equipment, see the installation manual delivered with the optional equipment.
- Make sure the electrical wiring does NOT obstruct proper reattachment of the service cover.

It is important to keep the power supply and the interconnection wiring separated from each other. In order to avoid any electrical interference, the distance between both wirings should ALWAYS be at least 50 mm.

NOTICE

Be sure to keep the power line and interconnection line apart from each other. Interconnection wiring and power supply wiring may cross, but may NOT run parallel.

7 Commissioning

NOTICE

Do NOT interrupt the test run.

7.1 Checklist before commissioning

1 After the installation of the unit, check the items listed below.

2 Close the unit.

3 Power up the unit.

☐	You read the complete installation instructions, as described in the **installer reference guide**.
☐	The **indoor units** are properly mounted.
☐	There are NO **missing phases** or **reversed phases**.
☐	The system is properly **earthed** and the earth terminals are tightened.
☐	The **fuses**, **circuit breakers**, or **locally installed protection devices** are of the size and type specified in this document, and have NOT been bypassed.
☐	The **power supply voltage** matches the voltage on the identification label of the unit.
☐	There are NO **loose connections** or damaged electrical components in the switch box.
☐	There are NO **damaged components** or **squeezed pipes** on the inside of the indoor and outdoor units.
☐	The correct pipe size is installed and the **pipes** are properly insulated.

For the user

8 User safety instructions

Always observe the following safety instructions and regulations.

8.1 Instructions for safe operation

CAUTION

Do NOT insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will cause injury.

CAUTION: Pay attention to the fan!

It is dangerous to inspect the unit while the fan is running.

Make sure to turn OFF the main switch before executing any maintenance task.

CAUTION

After a long use, check the unit stand and fitting for damage. If damaged, the unit may fall and result in injury.

CAUTION

It is unhealthy to expose your body to the air flow for a long time.

CAUTION

NEVER touch the internal parts of the controller.

DANGER: RISK OF ELECTROCUTION

To clean the air conditioner or air filter, be sure to stop operation and turn all power supplies OFF. Otherwise, an electrical shock and injury may result.

WARNING

Stop operation and shut OFF the power if anything unusual occurs (burning smells etc.).

Leaving the unit running under such circumstances may cause breakage, electrical shock or fire. Contact your dealer.

WARNING

NEVER touch the air outlet or the horizontal blades while the swing flap is in operation. Fingers may become caught or the unit may break down.

WARNING

Do NOT place a flammable spray bottle near the air conditioner and do NOT use sprays near the unit. Doing so may result in a fire.

WARNING

Before operating the unit, be sure the installation has been carried out correctly by an installer.

WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precautions.

WARNING

NEVER inspect or service the unit by yourself. Ask a qualified service person to perform this work. However, as end user, you may clean the air filter, suction grille, air outlet and outside panels.

9 About the system

WARNING

Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.

NOTICE

Do NOT use the system for other purposes. In order to avoid any quality deterioration, do NOT use the unit for cooling precision instruments, food, plants, animals, or works of art.

NOTICE

For future modifications or expansions of your system:

A full overview of allowable combinations (for future system extensions) is available in technical engineering data and should be consulted. Contact your installer to receive more information and professional advice.

10 Before operation

WARNING

This unit contains electrical and hot parts.

WARNING

Before operating the unit, be sure the installation has been carried out correctly by an installer.

CAUTION

NEVER expose little children, plants or animals directly to the airflow.

This operation manual is for the following systems with standard control. Before initiating operation, contact your dealer for the operation that corresponds to your system type and mark. If your installation has a customised control system, ask your dealer for the operation that corresponds to your system.

Operation modes:

- Heating and cooling (air to air).
- Fan only operation (air to air).

This operation manual offers a non-exhaustive overview of the main functions of the system.

For more information about the user interface, see the operation manual of the installed user interface.

11 Operation

11.1 Operation range

The following conditions are standard operating limits. For different conditions, please consult to a dealer.

Mode	Condition	Air temperature limit, (DB/WB)	Water temperature limit, (in/out)	Water delta T, ΔT
Cooling (˚C)	Min.	15 DB / 12.5 WB (RH%75)	5/8	3 to 10
	Max.	33 DB /26 WB (RH%58)	18/28	
Heating (˚C)	Min.	15 DB / [a]**WB	35/30	5 to 20
	Max.	27 DB /[a]**WB	90/70	

[a] (**) refers to WB temperature in the heating process. No need to consider it in the heating process.

12 Energy saving and optimum operation

Observe the following precautions to ensure the system operates properly.

- Adjust the air outlet properly and avoid direct air flow to room inhabitants.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Ventilate often. Extended use requires special attention to ventilation.
- Keep doors and windows closed. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling or heating effect.
- Be careful NOT to cool or heat too much. To save energy, keep the temperature setting at a moderate level.
- NEVER place objects near the air inlet or the air outlet of the unit. Doing so may cause a reduced heating/cooling effect or stop operation.
- Condensation may form if the humidity is above 80% or if the drain outlet gets blocked.

NOTICE

Do NOT use the system for other purposes. In order to avoid any quality deterioration, do NOT use the unit for cooling precision instruments, food, plants, animals, or works of art.

CAUTION

Do NOT operate the system when using a room fumigation-type insecticide. Chemicals could collect in the unit, and endanger the health of people who are hypersensitive to chemicals.

13 Maintenance and service

13.1 Maintenance safety precautions

DANGER: RISK OF BURNING/SCALDING

DANGER: RISK OF ELECTROCUTION

NOTICE

Keep the air filter clean and check the airflow rate periodically.

WARNING

- Before carrying out any maintenance or repair activity, ALWAYS switch off the circuit breaker on the supply panel.
- Make sure you do NOT touch a conductive section.
- Do NOT rinse the outside of the unit. This may cause electric shocks or fire.

To clean the outside of your fan coil unit:

1 Switch off the fan coil unit.

2 Clean the outside of the fan coil unit with a soft cloth.

CAUTION

- Do NOT obstruct the air outlet or inlet of the unit in any way.
- Do NOT place damp or wet clothing on the air outlet grille of the unit.
- Do NOT pour liquids inside the equipment.

Never clean your fan coil unit with:

- any aggressive chemical solvent,
- water hotter than 50°C.

For maintenance of your fan coil unit, contact your installer or service company.

13.2 Precautions for maintenance and service

NOTICE

NEVER inspect or service the unit by yourself. Ask a qualified service person to perform this work. However, as end user, you may clean the air filter, suction grille, air outlet and outside panels.

WARNING

NEVER replace a fuse with a fuse of a wrong ampere ratings or other wires when a fuse blows out. Use of wire or copper wire may cause the unit to break down or cause a fire.

CAUTION

After a long use, check the unit stand and fitting for damage. If damaged, the unit may fall and result in injury.

NOTICE

Do NOT wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discoloured or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Wipe it with another dry cloth.

CAUTION

Before accessing terminal devices, make sure to interrupt all power supply.

NOTICE

When cleaning the heat exchanger, make sure to remove the switch box, fan motor, drain pump and float switch. Water or detergent might deteriorate the insulation of electronic components and result in burnout of these components.

WARNING

Be careful with ladders when working in high places.

NOTICE

NEVER inspect or service the unit by yourself. Ask a qualified service person to perform this work. However, as end user, you may clean the air filter.

13.3 Cleaning the air filter, suction grille, air outlet and outside panels

CAUTION

Turn off the unit before cleaning the air filter, suction grille, air outlet and outside panels.

NOTICE

- Do NOT scrub firmly when washing the blade with water. **Possible consequence:** The surface sealing peels off.

Clean with a soft cloth. If it is difficult to remove stains, use water or a neutral detergent.

13.3.1 To clean the air filter

When to clean the air filter:

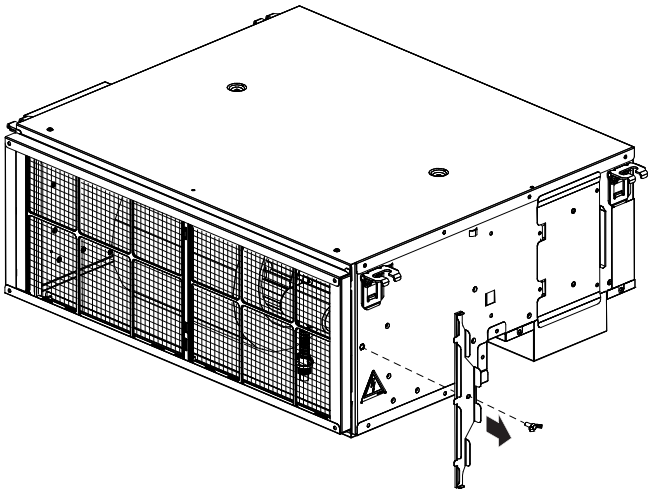
- Rule of thumb: Clean every 6 months. If the air in the room is extremely contaminated, increase the cleaning frequency.
- If the dirt becomes impossible to clean, change the air filter (= optional equipment).

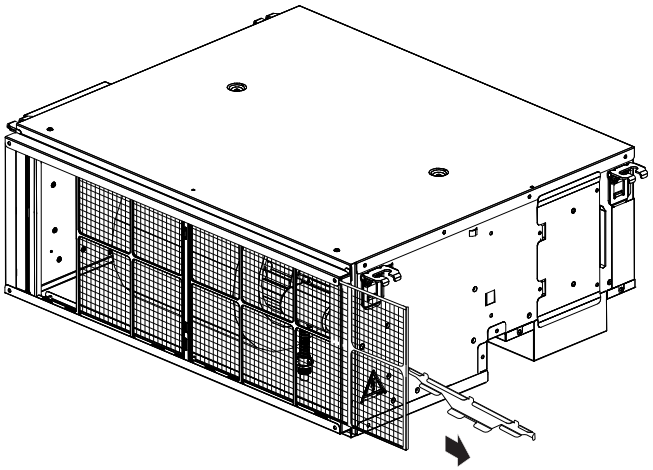
How to clean the air filter:

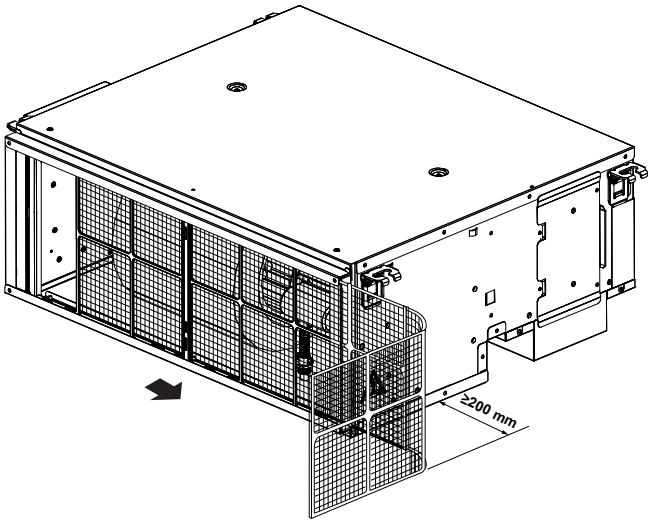
NOTICE

Do NOT use water of 50°C or higher. **Possible consequence:** Discoloration and deformation.

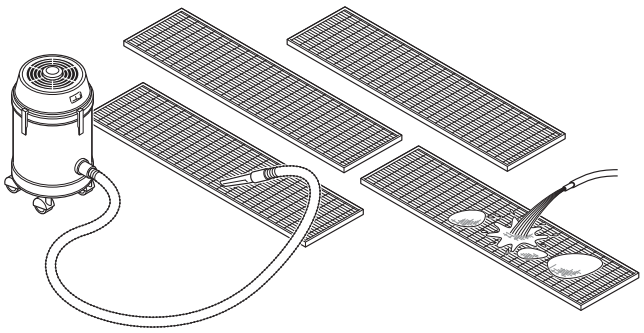
1 Switch off the power supply. The air filter can be installed on both the right side and left sides. Remove the filter by sliding, as shown below.







2 Clean the air filter. Use a vacuum cleaner or wash with water. If the air filter is very dirty, use a soft brush and neutral detergent.



3 Dry the air filter in the shadow.

4 Reattach the air filter and close the suction grille.

13.4 Maintenance after a long stop period

E.g., at the beginning of the season.

- Check and remove everything that might be blocking inlet and outlet vents of indoor units and outdoor units.
- Clean air filters and casings of indoor units (see "13.3.1 To clean the air filter" [▶ 16] and To clean the air outlet and outside panels).

13.5 Maintenance before a long stop period

E.g., at the end of the season.

- Let the indoor units run in fan-only operation for about half a day in order to dry the interior of the units. Refer to About cooling, heating, fan only, and automatic operation for details on fan-only operation.
- Turn off the power. The user interface display disappears.
- Clean air filters and casings of indoor units (see "13.3.1 To clean the air filter" [▶ 16] and To clean the air outlet and outside panels).

13.6 After-sales service and warranty

13.6.1 Recommended maintenance and inspection

Since dust collects when using the unit for several years, performance of the unit will deteriorate to some extent. As taking apart and cleaning interiors of units requires technical expertise and in order to ensure the best possible maintenance of your units, we recommend to enter into a maintenance and inspection contract on top of normal maintenance activities. Our network of dealers has access to a permanent stock of essential components in order to keep your unit in operation as long as possible. Contact your dealer for more information.

When asking your dealer for an intervention, always state:

- The complete model name of the unit.
- The manufacturing number (stated on the nameplate of the unit).
- The installation date.
- The symptoms or malfunction, and details of the defect.

WARNING

Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.

13.6.2 Shortened maintenance and replacement cycles

Shortening of "maintenance cycle" and "replacement cycle" needs to be considered in following situations:

The unit is used in locations where:

- Heat and humidity fluctuate out of the ordinary.
- Power fluctuation is high (voltage, frequency, wave distortion, etc.) (the unit cannot be used if power fluctuation is outside the allowable range).
- Bumps and vibrations are frequent.
- Dust, salt, harmful gas or oil mist such as sulphurous acid and hydrogen sulfide may be present in the air.
- The machine is started and stopped frequently or operation time is long (sites with 24 hour air-conditioning).

Recommended replacement cycle of wear parts

Component	Inspection cycle	Maintenance cycle (replacements and/or repairs)
Air filter	1 year	5 years
High efficiency filter		1 year
Fuse		10 years
Pressure containing parts		In case of corrosion, contact your local dealer.

INFORMATION

Damage due to taking apart or cleaning interiors of units by anyone other than our authorised dealers may not be included in the warranty.

14 Troubleshooting

If one of the following malfunctions occurs, take the measures shown below and contact your dealer.

The system MUST be repaired by a qualified service person.

Malfunction	Measure
If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates or the ON/OFF switch does not properly work.	Turn off the main power switch.
If water leaks from the unit.	Stop the operation.
The operation switch does not work well.	Turn off the power.

If the system does NOT operate properly except for the above mentioned cases and none of the above mentioned malfunctions is evident, investigate the system in accordance with the following procedures.

Malfunction	Measure
If the system does not operate at all.	▪ Check if there is no power failure. Wait until power is restored. ▪ Check if no fuse has blown or breaker is activated. Change the fuse or reset the breaker if necessary.

Malfunction	Measure
The system operates but cooling or heating is insufficient.	▪ Check if air inlet or outlet of outdoor or indoor unit is not blocked by obstacles. Remove any obstacles and make sure the air can flow freely. ▪ Check if the air filter is not clogged (see "13.3.1 To clean the air filter" [▶ 16]). ▪ Check the temperature setting. ▪ Check the fan speed setting on your user interface. ▪ Check for open doors or windows. Close doors and windows to prevent wind from coming in. ▪ Check if there are too many occupants in the room during cooling operation. Check if the heat source of the room is excessive. ▪ Check if direct sunlight enters the room. Use curtains or blinds. ▪ Check if the air flow angle is proper.

After checking all the items above, if it is impossible to fix the problem yourself, contact your installer and state the symptoms, the complete model name of the unit (with manufacturing number if possible) and the installation date.

14.1 To solve the problems with your fan coil unit

Your fan coil unit does not function

If your fan coil unit does not function:

Check:	If yes,
Has the fan coil unit been switched **OFF**?	Switch the fan coil unit **ON**.
Is there a power failure?	Restore the power supply.
Has the circuit breaker (fuse) been tripped?	Contact your installer or service company.

Your fan coil unit does not cool or heat well

If your fan coil unit does not cool or heat well:

Check:	If yes,
Is there an obstacle near the air inlet or air outlet?	Remove the obstacle.
Are any doors and windows open?	Close doors and windows.
Is the fan coil unit running at **low speed**?	Select **medium speed** or **high speed**.
Are the air filters dirty?	Contact your installer or service company.

Your fan coil unit leaks water

Shut down the unit and contact your installer or service company.

When your fan coil unit does not function well, you can try to solve any problem with the corrective actions in this chapter.

If the problem persists or is not addressed in this chapter, contact your installer or service company.

14.2 Relocation

Contact your dealer to remove and reinstall the entire unit. Moving units requires technical expertise.

15 Disposal

- Units are marked with the following symbol:



This means that electrical and electronic products may NOT be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: dismantling the system, treatment of the refrigerant, of oil and of other parts MUST be done by an authorised installer and MUST comply with applicable legislation.

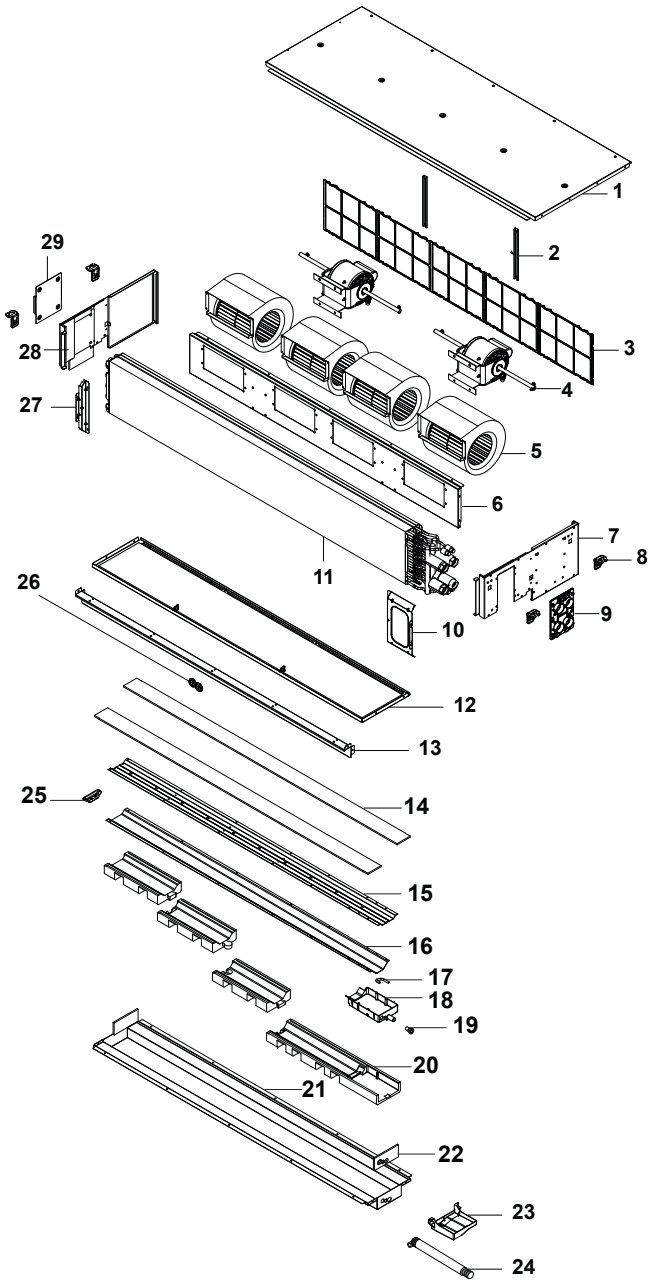
Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

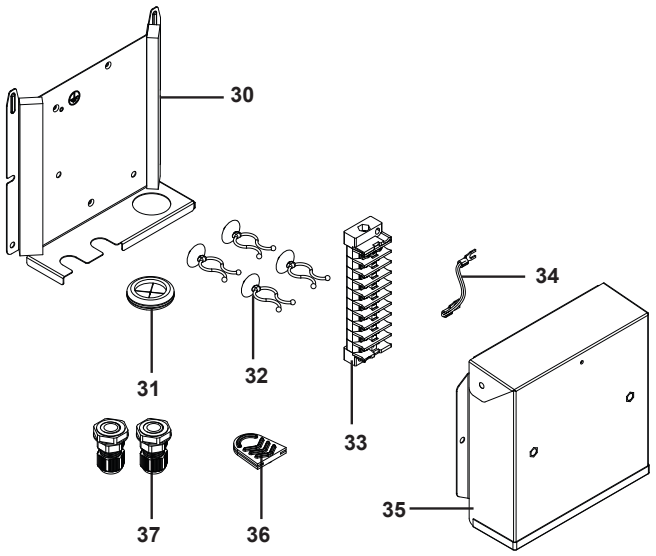
NOTICE

Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.

After installation, the installer is obliged to verify correct operation. In case something is wrong with the unit and it does not operate, contact your local dealer.

Use the proper tool to remove the screws. The product can be disassembled as shown below.



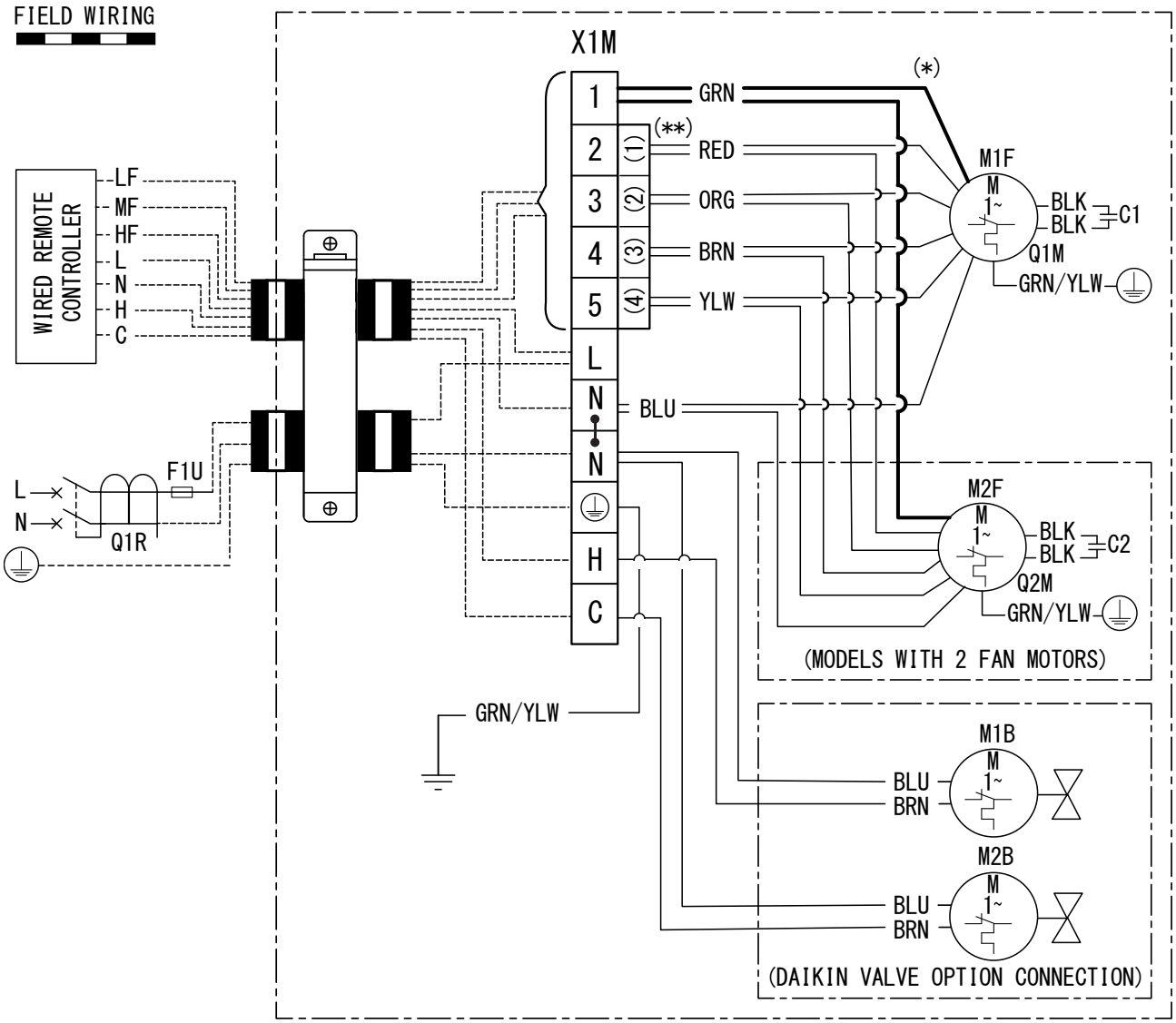


Materials	Item
Electrical part (fan motor + capacitor)	4
Aluminium (fin) + copper (tube) + galvanised steel (plate) + brass+plastic foam	11
Plastic	9, 18, 23, 24, 32, 37
Plastic foam	14, 22
Plastic + metal	33, 34
Plastic (frame) + plastic (net)	3
Galvasined steel	2, 5, 6, 8, 13, 15, 16, 21, 27, 39, 40, 41
Galvasined steel + plastic foam	1, 7, 10, 12, 28, 29, 30, 35, 38
Rubber	19, 25, 26, 31, 36
EPP	20
Copper	17

16 Technical data

A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible). The **full set** of the latest technical data is available on the Daikin Business Portal (authentication required).

16.1 Wiring diagram



Legend for wiring diagrams:

C1 , C2	Capacitor
F1U	Field fuse
M1F, M2F	Fan motor
M1B	Heating actuator
M2B	Cooling actuator
Q1M , Q2M	Thermal protector
Q1R	Earth leakage breaker
X1M	Terminal strip
L	Live
N	Neutral
1	Lowest speed
5	Highest speed
H	Heating valve
C	Cooling valve
LF	Low fan speed
MF	Medium fan speed
HF	High fan speed
⏚	Protective earth
⏚	Earth

Colours:

BLK	Black
BLU	Blue
BRN	Brown
GRN	Green
ORG	Orange
RED	Red
YLW	Yellow

Notes:

(*) —— for 5-speed motor only.

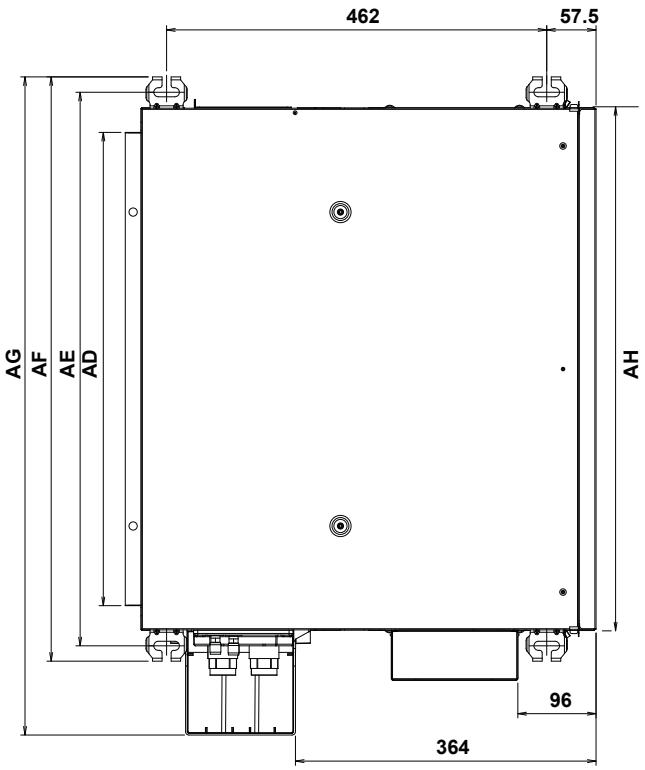
(**) (1)-(4) numbers for 4-speed motor.

1 □□□□: Terminal block ▪▪▪▪: Field wiring.

2 Refer to installation manual for power requirement.

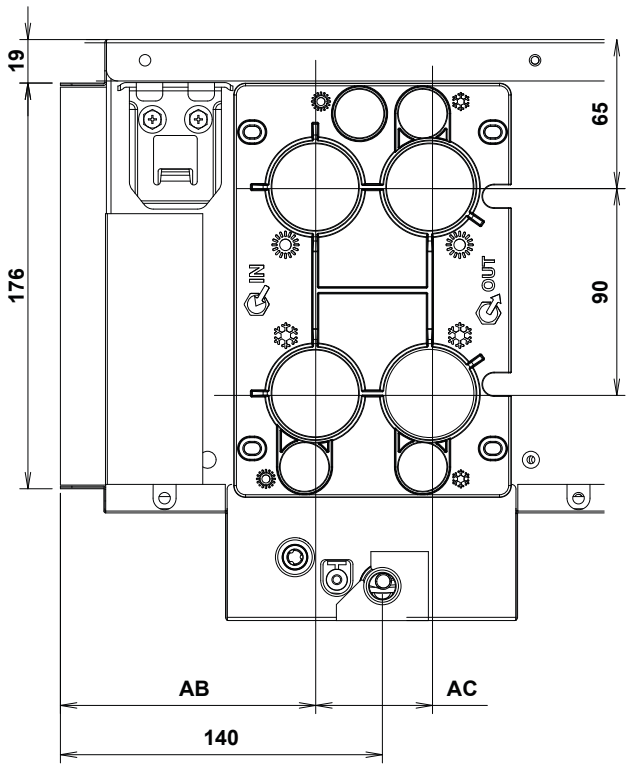
16.2 Dimensions

Overview

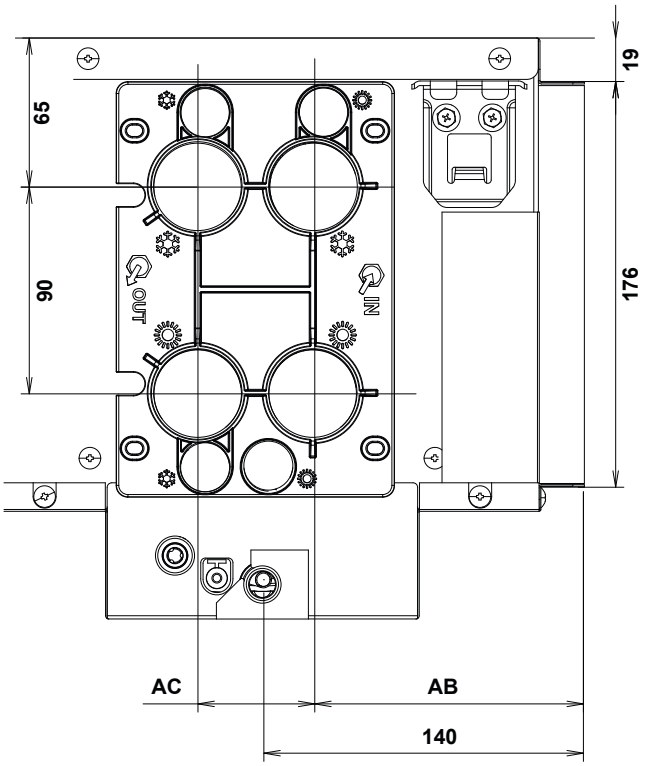


MODEL	AD	AE	AF	AG	AH
FWE04&05&06F	572	670	707	797	633
FWE08&10&12F	877	975	1012	1102	938
FWE14&16F	1187	1285	1322	1412	1248
FWE20&24F	1487	1585	1622	1712	1548

For right models (FWE**FB-R**):**

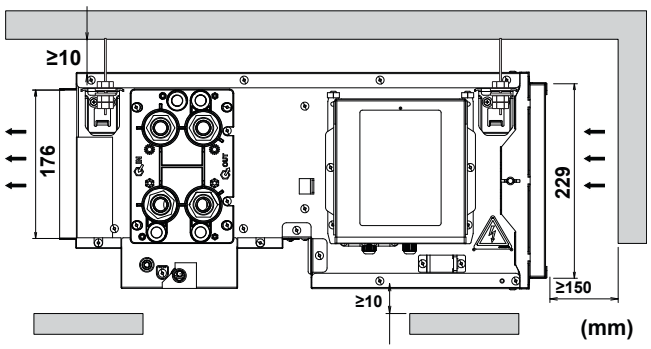


For left models (FWE**FB--**):**

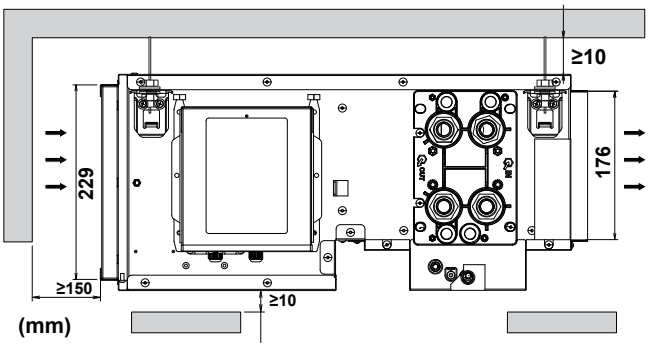


MODEL	AB	AC
FWE04&05&06&08&10&12&14&16F	118	50
FWE20&24F	121	44

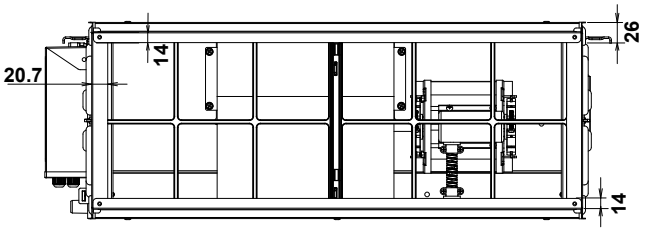
For right models (FWE**FB-R**):**



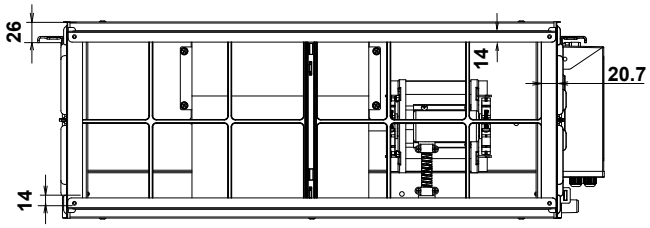
For left models (FWE**FB--**):**



For right models (FWE**FB-R**):**



For left models (FWE**FB--**):**



17 Information requirements for ecodesign

Prated,c

- (GB) Cooling capacity (sensible)
- (D) Kühlleistung (sensibel)
- (F) Puissance de rafraîchissement (sensible)
- (NL) Koelcapaciteit (voelbaar)
- (E) Capacidad de refrigeración (sensibilidad)
- (I) Capacità di raffreddamento (sensibile)
- (GR) Απόδοση ψύξης (αισθητή)
- (P) Capacidade de arrefecimento (sensível)
- (TR) Soğutma kapasitesi (duyarlı)
- (RUS) Хладопроизводительность (явная)
- (S) Kylningskapacitet (känslig)
- (N) Avkjølingskapasitet (følbar)
- (CZ) Chladicí výkon (citelný)
- (HR) Kapacitet hlađenja (osjetljivo)
- (H) Hűtési teljesítmény (érzékeny)
- (RO) Capacitate de răcire (fără dezumidificare)
- (SLO) Moč hlajenja (zaznavna)
- (SK) Kapacita chladenia (účelná)
- (BG) Капацитет на охлаждане (практически)
- (PL) Wydajność chłodnicza (jawna)
- (DK) Kølekapacitet (mærkbart)
- (FIN) Jäähdytyskapasiteetti (järkevä)
- (EST) Jahutusvõimsus (mõõdukas)
- (LV) Dzesēšanas kapacitāte (jūtamā)
- (LT) Vėsinimo galia (tikroji)
- (AL) Kapaciteti i ftohjes (sensiblël)
- (SRB) Kapacitet hlađenja (opipljiv)

Prated,c

- (GB) Cooling capacity (latent)
- (D) Kühlleistung (latent)
- (F) Puissance de rafraîchissement (latente)
- (NL) Koelcapaciteit (latent)
- (E) Capacidad de refrigeración (latente)
- (I) Capacità di raffreddamento (latente)
- (GR) Απόδοση ψύξης (λανθάνουσα)
- (P) Capacidade de arrefecimento (latente)
- (TR) Soğutma kapasitesi (gizli)
- (RUS) Хладопроизводительность (скрытая)
- (S) Kylningskapacitet (latent)
- (N) Avkjølingskapasitet (latent)
- (CZ) Chladicí výkon (latentní)
- (HR) Kapacitet hlađenja (latentno)
- (H) Hűtési teljesítmény (látens)
- (RO) Capacitate de răcire (cu dezumidificare)
- (SLO) Moč hlajenja (latentna)
- (SK) Kapacita chladenia (latentná)
- (BG) Капацитет на охлаждане (потенциален)
- (PL) Wydajność chłodnicza (utajona)
- (DK) Kølekapacitet (skjult)
- (FIN) Jäähdytyskapasiteetti (latentti)
- (EST) Jahutusvõimsus (latentne)
- (LV) Dzesēšanas kapacitāte (latentā)
- (LT) Vėsinimo galia (latentinė)
- (AL) Kapaciteti i ftohjes (në gjendje gjumi)
- (SRB) Kapacitet hlađenja (latentan)

Prated,h

- (GB) Heating capacity
- (D) Heizleistung
- (F) Puissance de chauffage
- (NL) Verwarmingscapaciteit
- (E) Capacidad de calefacción
- (I) Capacità di riscaldamento
- (GR) Απόδοση θέρμανσης
- (P) Capacidade de aquecimento
- (TR) Isıtma kapasitesi
- (RUS) Теплопроизводительность
- (S) Värmekapacitet
- (N) Oppvarmingskapasitet
- (CZ) Topný výkon
- (HR) Kapacitet grijanja
- (H) Fűtési teljesítmény
- (RO) Capacitate de încălzire
- (SLO) Moč ogrevanja
- (SK) Výkon ohrevu
- (BG) Отоплителна мощност
- (PL) Wydajność grzewcza
- (DK) Varmekapacitet
- (FIN) Lämmitysteho
- (EST) Küttevõimsus
- (LV) Apsildes kapacitāte
- (LT) Šildymo galia
- (AL) Kapaciteti i ngrohjes
- (SRB) Kapacitet grejanja

Pelec

- (GB) Total electric power input
- (D) Elektrische Gesamtleistungsaufnahme
- (F) Entrée électrique totale
- (NL) Totaal opgenomen vermogen
- (E) Potencia eléctrica de entrada total
- (I) Potenza elettrica totale assorbita
- (GR) Συνολική ηλεκτρική ισχύς εισόδου
- (P) Entrada de potência elétrica total
- (TR) Çekilen toplam elektrik gücü
- (RUS) Общаяпотребляемая электрическая мощность
- (S) Total effektingång
- (N) Total elektrisk strømeffekt
- (CZ) Celkový elektrický příkon
- (HR) Ukupna primljena snaga električne energije
- (H) Teljes áramforrás-bemenet
- (RO) Consum total de putere
- (SLO) Skupna vhodna električna moč
- (SK) Celkový elektrický príkon
- (BG) Обща входяща електрическа мощност
- (PL) Całkowita pobierana energia elektryczna
- (DK) Total elektrisk strømforsyning
- (FIN) Sähkötehon kokonaistulo
- (EST) Kogu elektriline sisendvõimsus
- (LV) Kopējā elektriskā ieejas jauda
- (LT) Bendroji elektros vartojamoji galia
- (AL) Konsumi total i energjisë elektrike
- (SRB) Ukupna ulazna električna snaga

LWA

- (GB) Sound power level (per speed setting, if applicable)
- (D) Schallleistungspegel (je Geschwindigkeitseinstellung, falls zutreffend)
- (F) Niveau de puissance sonore (par réglage de vitesse, le cas échéant)
- (NL) Geluidsvermogenniveau (per snelheidsinstelling, indien van toepassing)
- (E) Nivel de potencia acústica (según ajuste de velocidad, si corresponde)
- (I) Livello di potenza sonora (per velocità impostata, se applicabile)
- (GR) Στάθμη ηχητικής ισχύος (ανάρύθμιση ταχύτητας, εφόσον διατίθεται)
- (P) Nível de potência acústica (por regulação de velocidade, se aplicável)
- (TR) Ses gücü seviyesi (mümkünse hız ayarı başına)
- (RUS) Уровень звукового давления (согласно настройке скорости, если применимо)
- (S) Ljudeffektsnivå (per hastighetsinställning, om tillämpligt)
- (N) Nivå på lydeffekt (per hastighetsinnstilling, hvis tilgjengelig)
- (CZ) Hladina akustického výkonu (dle nastavení otáček pokud je to použitelné)
- (HR) Razina jačine zvuka (postavka prema brzini, ako je primjenjivo)
- (H) Hangerőszint (sebességszintenként, ha alkalmazható)
- (RO) Nivel presiune sonoră (în funcţie de turaţie, dacă este cazul)
- (SLO) Raven zvočne moči (glede na nastavitev hitrosti, če se uporablja)
- (SK) Úroveň akustického tlaku (na príslušné nastavenie rýchlosti, ak sa používa)
- (BG) Ниво на звуковата мощност (за различните настройки на оборотите, ако е приложимо)
- (PL) Poziom mocy dźwięku (dla ustawienia prędkości, jeśli dotyczy)
- (DK) Støjniveau (efter hastighedsindstilling hvis relevant)
- (FIN) Äänen tehotaso (nopeusasetuksen mukaan, jos sovellettavissa)
- (EST) Helivõimsuse tase (võimalusel olenevalt määratud kiirusest)
- (LV) Skaņas intensitātes līmenis (attiecīgā gadījumā – katram ātruma iestatījumam)
- (LT) Garso galios lygis (vienai greičio nuostatai, jei taikytina)
- (AL) Niveli i fuqisë së tingullit (për cilësim shpejtësie, nëse aplikohet)
- (SRB) Nivo zvučne snage (po podešenoj brzini, ako je primenljivo)

	Prated,c (sensible)	Prated,c (latent)	Prated,h	Pelec	Lwa		Prated,c (sensible)	Prated,c (latent)	Prated,h	Pelec	Lwa
	kW	kW	kW	kW	dB		kW	kW	kW	kW	dB
FWE04FF	1.8	0.4	2.6	0.057	52	FWE04FT	1.8	0.4	2.7	0.058	52
FWE05FF	2.0	0.5	2.7	0.057	53	FWE05FT	2.1	0.6	3.2	0.058	52
FWE06FF	2.7	0.7	3.2	0.079	61	FWE06FT	2.7	0.8	4.2	0.082	61
FWE08FF	3.5	0.8	5.1	0.094	55	FWE08FT	3.6	0.9	5.7	0.096.	54
FWE10FF	3.7	0.9	5.3	0.109	57	FWE10FT	3.8	1.0	5.9	0.103	57
FWE12FF	4.3	1.0	5.8	0.122	60	FWE12FT	4.3	1.1	6.7	0.115	61
FWE14FF	5.6	1.3	8.1	0.170	61	FWE14FT	5.6	1.4	8.3	0.175	60
FWE16FF	6.3	1.3	8.8	0.189	64	FWE16FT	6.4	1.4	9.3	0.190	64
FWE20FF	8.3	1.7	10.7	0.180	60	FWE20FT	8.6	1.9	10.9	0.191	59
FWE24FF	9.7	1.9	11.8	0.224	64	FWE24FT	9.9	2.1	12.1	0.230	64

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