



Installation manual

Daikin room air conditioner



FTXP20L2V1B
FTXP25L2V1B
FTXP35L2V1B
FTXP50L2V1B
FTXP60L2V1B
FTXP71L2V1B

ATXP20L2V1B
ATXP25L2V1B
ATXP35L2V1B

FTXF20A2V1B
FTXF25A2V1B
FTXF35A2V1B
FTXF50A2V1B
FTXF60A2V1B
FTXF71A2V1B

CE - DECLARATION-OF-COMFORMITY
CE - DICHIARAZIONE DI CONFORMITÀ
CE - ΔΗΛΩΣΗ ΣΥΜΠΟΦΩΣΗΣ

CE - DECLARATION-OF-COMFORMITY
CE - KONFORMITÄT SERKLÄRUNG
CE - DECLARATION DE CONFORMITE
CE - CONFORMITEITSVERKLARING

CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СООТВЕТСТВИИ
CE - ÖVERENSSTÄMMELSEERKLÄRING
CE - FÖRSÄKRAN-OM-ÖVERENSSTÄMMELSE

CE - ERKLÆRING OM-SAMSVAR
CE - ILMOITUS-YHDENMUKAISUDESTA
CE - PROHLÁŠENÍ-O-SHOĐĚ

CE - IZJAVA O USKLADENOSTI
CE - MEGFELELŐSÉGI NYILATKOZAT
CE - DEKLARACIJA ZGODNOSTI
CE - DECLARATION DE CONFORMITE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIOON
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ

CE - ATTIKTIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARĀCIJA
CE - VYHLÁSENIE-ZHODY
CE - UYGUNLUK-BEYANI

Daikin Industries Czech Republic s.r.o.

[illegible]

09 **PL** 10 **DK** 11 **S** 12 **N** 13 **FIN** 14 **CZ** 15 **HR** 16 **H**

ую ответственность, что модели
aanlægsmødelene, som denne
viser, at luftkonditioneringsmo
t de luftkonditioneringsmodelle
ullaen, että lämmän imoituksen
sisti, že modely klimatizace, k
dgovornostu da su modeli klim
nti, hoav a klimaberendzés m

грам относится настоящее заявление:

[illegible]

FTXP20L2V1B, FTXP25L2V1B, FTXP35L2V1B, ATXP20L2V1B, ATXP25L2V1B, ATXP35L2V1B,

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions.
02
03
04

05 están en conformidad con la(s) siguiente(s) norma(s) u otra(s) documento(s) normalizad(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:

06 son conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:

07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονιστικό, υπό την προϋπόθεση ότι χρησιμοποιούνται

EN60335-2-40,

01	following the provisions of:	01	указів, що встановлюються:
02	gemäß den Vorschriften der:	02	згідно з правилами:
03	conformément aux dispositions des:	03	згідно з положеннями:
04	overeenkomstig de bepalingen van:	04	згідно з умовами:
05	segundo as disposições de:	05	згідно з положеннями:
06	secondo le prescrizioni per:	06	згідно з правилами:
07	mit triftigen "und darüberhinau":	07	згідно з правилами:
08	de acordo com o previsto em:	08	згідно з правилами:
09	in conformità con i regolamenti:	09	згідно з правилами:
10	under tillämpning av bestämmelserna i:	10	у разі застосування:
11	enligt villkoren i:	11	за умов:
12	gitt i henhold til bestemmelserne i:	12	за умов:
13	noudatuen määrävksä:	13	за умов:
14	za dodržení ustanovení předpisu:	14	за умов:
15	prema odredbama:	15	за умов:
16	követeli az:	16	за умов:
17	zgodno z poslovanenimi Direktiv:	17	згідно з положеннями:
18	in Übereinstimmung mit:	18	згідно з правилами:

01 Note*	as set out in <A> and judged positively by according to <C>	06 Nota*
02 Hinweis*	we in <A> judgement and von positiv beurteilt gemäss <C>	07 Zeykution*
03 Remarque*	lei que defin dans <A> et évalué positivement par 08 Nota*	
04 Bemerk*	zod's vermeld in <A> en positief beoordeeld door overeenkomstig <C>	09 Pörmessame*
05 Nota*	como se establece en <A> y es valorado positivamente por de acuerdo con el Certificado <C>	10 Bemerk*

01** DICZ**** is authorised to compile the Technical Construction File.
 02** DICZ**** hat die Berechtigung die Technische Konstruktionsakte zusammenzustellen.
 03** DICZ**** est autorisé à compiler le Dossier de Construction Technique.
 04** DICZ**** is bevoegd om het Technisch Constructiedossier samen te stellen.
 05** DICZ**** está autorizado a compilar el Archivo de Construcción Técnica.
 06** DICZ**** è autorizzata a redigere il File Tecnico di Costruzione.

***DICz = Daikin Industries Czech Republic s.r.o.

19 ob upoštevanju določb:
20 postaviti nujetele.
21 средьайки клаузите на:
22 лаіканіс нустатцї, патеікамцї;
23 іевројот прастіба, кас натеікаітас;
24 одржавајуч установаіа;
25 бунун косуііаіаа уауун оіаіак:

delineato nel e giudicato positivamente da
secondo il Certificato <A>
ΠΙΣΤΥΣ ΚΑΘΟΡΙΣΤΟΣ ΤΟ ΚΑΙ ΚΡΕΙΤΤΗ ΘΕΩΡΩ
τοποτηρώ το σύμφωνα με το Πιστοποιητικό <C>
al qual como estabelecido em <A> e com o parecer positivo
do Certificado <D>
Illegale è d'accordo con il Certificato <E>
как указано в <A> и соответствует с положительным
решением согласно Свидетельству <F>
som anförir i <A> og positivt vurderet af i henhold til
Certifikat <C>

07**	H DIC*** είναι εξουσιοδοτημένη να συντάξει τον Τεχνικό φάκελο κατασκευής.
08**	A DIC*** está autorizada a compilar a documentação técnica de fabrico.
09**	Компания DIC*** уполномочена составлять Комплект технической документации.
10**	DIC*** er autoriseret til at udarbejde de tekniske konstruktdata.
11**	DIC*** är auktoriserad att sammanställa den tekniska konstruktionsfilen.
12**	DIC*** har tillätselse til å komponere den tekniske konstruksjonsfilen.

Information*	enligt <A> och godkänns av enligt Certifikatet <C>
Merk*	som det framkommer i <A> och glömsk positiv på enligt <C>
Huon*	på ett sätt avseende <A> <C> <D> jolla om esitely aselajassa <A> <C> <D> on hyväksyttyt <A> <C> <D> mukaisesti.
Poznámk*	jak bylo uvedeno v <A> a pozitivně zjištěno v souladu s osvědčením <C>
Napomena*	kako je izloženo u <A> pozitivno ocijenjeno od prema Certifikatu <C>

13 ⁺⁺	DIC2
14 ⁺⁺	Spol
15 ⁺⁺	DIC2
16 ⁺⁺	A DI
17 ⁺⁺	DIC2
18 ⁺⁺	DIC2

Low Voltage 2014/35/EU
Electromagnetic Compatibility 2014/30/EU
Machinery 2006/42/EC

16 Megjegyzés*

17 Uwaga*

18 Notă*

19 Opomba*

20 Märkus*

[illegible]

13^o DICZ*** on valuetuettu laintaan Teknisen asiakirjan.
14^o Společnost DICZ*** má právními ke komplikaci souboru technické konstrukce.
15^o Společnost je ověřen za právní Datareje o technicko konstrukci.
16^o A DICZ*** jogsull a miszaki konstrukciós dokumentáció összeállítására.
17^o DICZ*** est autorizată pe zbirarea şi elaborarea documentaţiei construc-
18^o ţiilor este autorizat să completeze Dosarul tehnice de construcţie.

[illegible]

be sta ezi nuz it*

konstrukce.

16 megnevelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azok az előadás szerint használják:
17 speinajk wmiogj nasipajogj norm i inych dokumentow normalizacyjnych, pod warunkiem ze ich uzenie sa zgodnie z naszymi instrukcjami:
18 sunt in conformitate cu umaburul (umalorarele) standarde (e) sau altele documente (e) normative, cu conditie ca acestea sa fie utilizate in conformitate cu instructiunile noastre:

skādināt nāševīgām standartu ir droģināt, ka se uorārlāžu vāku nāševīgām rādītāji. uorārlāžu nāševīgām standartu ir droģināt, ka se uorārlāžu vāku nāševīgām rādītāji. uorārlāžu nāševīgām standartu ir droģināt, ka se uorārlāžu vāku nāševīgām rādītāji.

24 sú v zhode s nasledovnými) normou(ami) alebo inými(i) normalizovanými(i) dokumentom(ami), za predpokladu, že sa používajú v súlade s našimi návodom:

15 Ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur:

[illegible]

oceneno polojitelno ot
igigamaj nuspresta pagal
ši pozitivajam vñejumam
pozitivne zistene v silade
> Sertifikasna göre
ženendniliđi qibi.

- 19^o DIC^{***} je potreben za sestavo datoteke s tehnično mapo.
- 20^o DIC^{***} omogoča ločeno tehnično dokumentacijo.
- 21^o DIC^{***} omogoča opredeljevanje in opredeljevanje na strani Arta za tehnično dokumentacijo.
- 22^o DIC^{***} vrača podatke o tehničnih konstrukcijskih filah.
- 23^o DIC^{***} je avtomatsko sestavljen tehnični dokumentacijski.
- 24^o Splošnost DIC^{***} je opredeljena v zvezi s tehničnimi konstrukcijami.
- 25^o DIC^{***} Teknični Yaglasni delovni vektorski.

<A>	DAKIN.TCF.032D1/12-2017
	DEKRA (NB0344)
<C>	2159619.0551-EMC

3P511700-1A



Tetsuya Baba
Managing Director
Pilsen, 1st of December 2017

DAIKIN INDUSTRIES CZECH REPUBLIC S.R.O.

U Nové Hospody 1/1155, 301 00 Plzeň Skvrňany,
Czech Republic



Table of Contents

1	About the documentation	6
1.1	About this document.....	6
2	About the box	6
2.1	Indoor unit	6
2.1.1	To remove the accessories from the indoor unit.....	6
3	About the unit	7
3.1	System layout.....	7
3.2	Operation range	7
4	Preparation	7
4.1	Preparing the installation site	7
4.1.1	Installation site requirements of the indoor unit	7
4.2	Preparing refrigerant piping.....	8
4.2.1	Refrigerant piping requirements.....	8
4.2.2	Refrigerant piping insulation	8
5	Installation	8
5.1	Opening the units	8
5.1.1	To open the indoor unit.....	8
5.2	Installing the indoor unit	9
5.2.1	To install the mounting plate.....	9
5.2.2	To drill a wall hole	10
5.2.3	To remove the pipe port cover	10
5.2.4	To provide drainage	11
5.3	Connecting the refrigerant piping	12
5.3.1	Guidelines when connecting the refrigerant piping	12
5.3.2	To connect the refrigerant piping to the indoor unit	12
5.4	Connecting the electrical wiring.....	12
5.4.1	To connect the electrical wiring on the indoor unit.....	13
5.5	Finishing the indoor unit installation	13
5.5.1	To insulate the drain piping, refrigerant piping and interconnection cable	13
5.5.2	To pass the pipes through the wall hole	13
5.5.3	To fix the unit on the mounting plate.....	14
6	Configuration	14
6.1	To set a different address.....	14
7	Commissioning	15
7.1	Checklist before commissioning.....	15
7.2	To perform a test run	15
7.2.1	To perform a test run in winter season	15
8	Disposal	15
9	Technical data	16
9.1	Wiring diagram	16

1 About the documentation

1.1 About this document



INFORMATION

Make sure that the user has the printed documentation and ask him/her to keep it for future reference.

Target audience

Authorised installers



INFORMATION

This appliance is intended to be used by expert or trained users in shops, in light industry, and on farms, or for commercial and household use by lay persons.

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 manual:**
 - Installation instructions
 - Format: Paper (in the box of the indoor unit)
- **Installer reference guide:**
 - Preparation of the installation, good practices, reference data,...
 - Format: Digital files on <http://www.daikineurope.com/support-and-manuals/product-information/>

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.

Technical engineering data

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

2 About the box

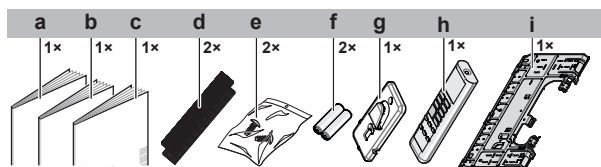
2.1 Indoor unit



INFORMATION

The following figures are just examples and may NOT completely match your system layout.

2.1.1 To remove the accessories from the indoor unit



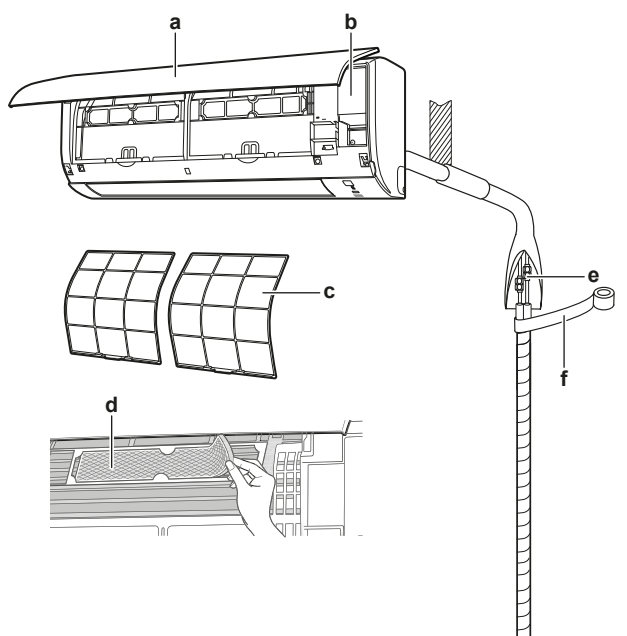
- a Installation manual
- b Operation manual
- c General safety precautions
- d Titanium apatite deodorizing filter (only for FTXP-L and ATXP-L)
- e Indoor unit fixing screw (M4×12L). Refer to "5.5.3 To fix the unit on the mounting plate" on page 14.
- f Dry battery AAA.LR03 (alkaline) for user interface
- g User interface holder
- h User interface
- i Mounting plate

3 About the unit


WARNING: FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

3.1 System layout



- a Indoor unit
- b Service lid
- c Air filter
- d Titanium apatite deodorizing filter (only for ATXP-L and FTXP-L)
- e Refrigerant piping, drain hose and interconnection cable
- f Insulation tape

3.2 Operation range

Use the system in the following temperature and humidity ranges for safe and effective operation.

Operation mode	Operation range
Cooling ^{(a)(b)}	▪ Outdoor temperature: -10~46°C ▪ Indoor temperature: 18~32°C ▪ Indoor humidity: ≤80%
Heating ^(a)	▪ Outdoor temperature: -15~24°C ▪ Indoor temperature: 10~30°C
Drying ^(a)	▪ Outdoor temperature: -10~46°C ▪ Indoor temperature: 18~32°C ▪ Indoor humidity: ≤80%

If operated outside the operation range:

- (a) A safety device might stop the operation of the system.
- (b) Condensation might occur on the indoor unit and drip.

4 Preparation

4.1 Preparing the installation site


WARNING

The appliance shall be stored in a room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater).

4.1.1 Installation site requirements of the indoor unit


INFORMATION

The sound pressure level is less than 70 dBA.

- **Air flow.** Make sure nothing blocks the air flow.
 - **Drainage.** Make sure condensation water can be evacuated properly.
 - **Wall insulation.** When conditions in the wall exceed 30°C and a relative humidity of 80%, or when fresh air is inducted into the wall, then additional insulation is required (minimum 10 mm thickness, polyethylene foam).
 - **Wall strength.** Check whether the wall or the floor is strong enough to support the weight of the unit. If there is a risk, reinforce the wall or the floor before installing the unit.
- Install power cables at least 1 metre away from televisions or radios to prevent interference. Depending on the radio waves, a distance of 3 metres may NOT be sufficient.
- Choose a location where the hot/cold air discharged from the unit or the operation noise, will NOT disturb anyone.
 - **Fluorescent lights.** When installing a wireless user interface in a room with fluorescent lights, mind the following to avoid interference:
 - Install the wireless user interface as close as possible to the indoor unit.
 - Install the indoor unit as far as possible from the fluorescent lights.

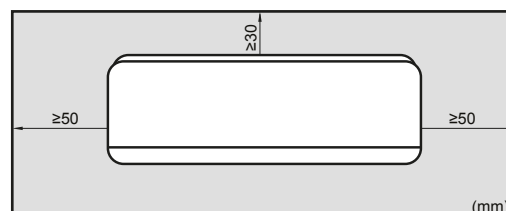
It is NOT recommended to install the unit in the following places because it may shorten the life of the unit:

- Where the voltage fluctuates a lot
- In vehicles or vessels
- Where acidic or alkaline vapour is present
- In places where a mineral oil mist, spray or vapour may be present in the atmosphere. Plastic parts may deteriorate and fall off or cause water leakage.
- In places where the unit would be in the path of direct sunlight.
- In bathrooms.
- Sound sensitive areas (e.g. near a bedroom), so that the operation noise will cause no trouble.


WARNING

Do NOT place objects below the indoor and/or outdoor unit that may get wet. Otherwise condensation on the unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, and objects under the unit may get dirty or damaged.

- **Spacing.** Install the unit at least 1.8 m from the floor and keep the following requirements in mind for distances from the walls and the ceiling:



5 Installation

4.2 Preparing refrigerant piping

4.2.1 Refrigerant piping requirements

Refrigerant piping diameter

Use the same diameters as the connections on the outdoor units:

Class	L1 liquid piping	L1 gas piping
20~35	Ø6.4	Ø9.5
50~71	Ø6.4	Ø12.7

Refrigerant piping material

- **Piping material:** Phosphoric acid deoxidised seamless copper.
- **Flare connections:** Only use annealed material.
- **Piping temper grade and thickness:**

Outer diameter (Ø)	Temper grade	Thickness (t) ^(a)	
6.4 mm (1/4")	Annealed (O)	≥0.8 mm	
9.5 mm (3/8")			
12.7 mm (1/2")			

(a) Depending on the applicable legislation and the unit's maximum working pressure (see "PS High" on the unit name plate), larger piping thickness might be required.

4.2.2 Refrigerant piping insulation

Pipe outer diameter (Ø _p)	Insulation inner diameter (Ø _i)	Insulation thickness (t)
6.4 mm (1/4")	8~10 mm	≥10 mm
9.5 mm (3/8")	12~15 mm	
12.7 mm (1/2")	14~16 mm	



If the temperature is higher than 30°C and the humidity is higher than RH 80%, the thickness of the insulation materials should be at least 20 mm to prevent condensation on the surface of the insulation.

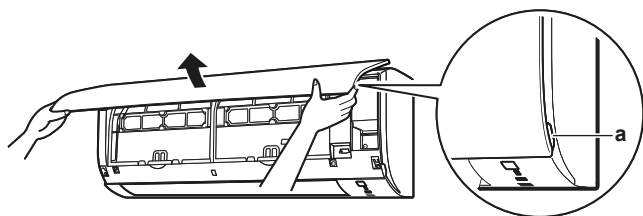
5 Installation

5.1 Opening the units

5.1.1 To open the indoor unit

To remove the front panel

- 1 Hold the front panel by the panel tabs on both sides and open it.

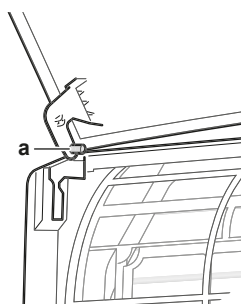


a Indentation on the unit

- 2 Remove the front panel by sliding it to the left or the right and pulling it toward you.

Result: The front panel shaft on 1 side will be disconnected.

- 3 Disconnect the front panel shaft on the other side in the same manner.



a Front panel shaft

To re-install the front panel

- 1 Attach the front panel. Align the shafts with the slots and push them all the way in.
- 2 Close the front panel slowly and press on both sides at the centre.

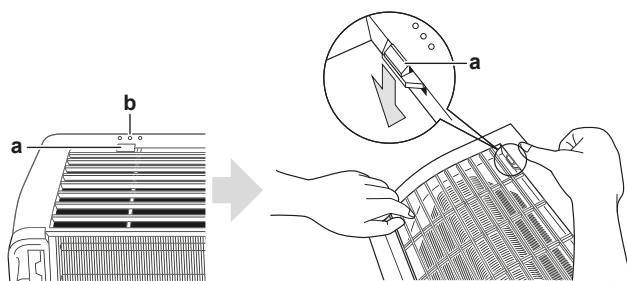
To remove the front grille



CAUTION

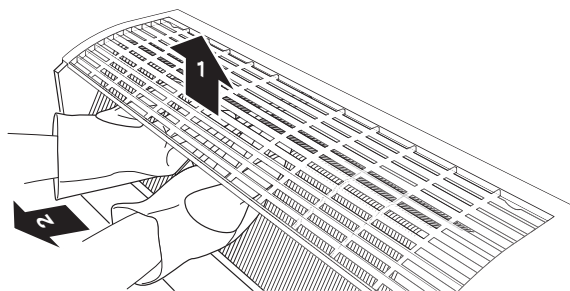
Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.

- 1 Remove the front panel to remove the air filter.
- 2 Remove 2 screws (class 20~35) or 3 screws (class 50~71) from the front grille.
- 3 Push down the 3 upper hooks marked with a symbol with 3 circles.



a Upper hook
b Symbol with 3 circles

- 4 We recommend opening the flap before removing the front grille.
- 5 Place both hands under the centre of the front grille, push it up and then toward you.

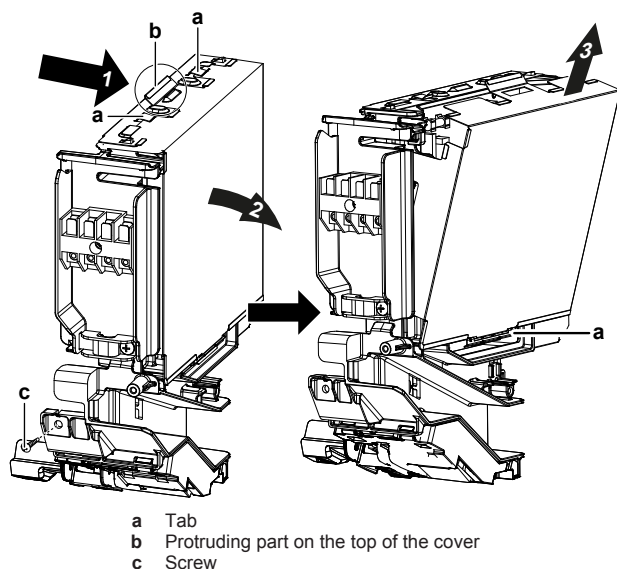


To re-install the front grille

- 1 Install the front grille and firmly engage the 3 upper hooks.
- 2 Install 2 screws (class 20~35) or 3 screws (class 50~71) back on the front grille.
- 3 Install the air filter and then mount the front panel.

To remove the electrical wiring box cover

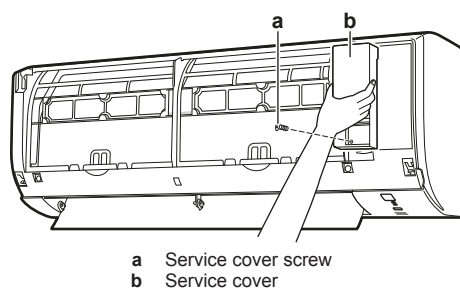
- 1 Remove the front grille.
- 2 Remove 1 screw from the electrical wiring box.
- 3 Open the electrical wiring box cover by pulling the protruding part on the top of the cover.
- 4 Unhook the tab on the bottom and remove the electrical wiring box cover.



- 5 To re-install the cover, first hook the bottom tab onto the electrical wiring box, and slide the cover into the 2 upper tabs.

To open the service cover

- 1 Remove 1 screw from the service cover.
- 2 Pull out the service cover horizontally away from the unit.



5.2 Installing the indoor unit

5.2.1 To install the mounting plate

- 1 Install the mounting plate temporarily.
- 2 Level the mounting plate.
- 3 Mark the centres of the drilling points on the wall using a tape measure. Position the end of tape measure at symbol ">".
- 4 Finish the installation by securing the mounting plate on the wall using screws.

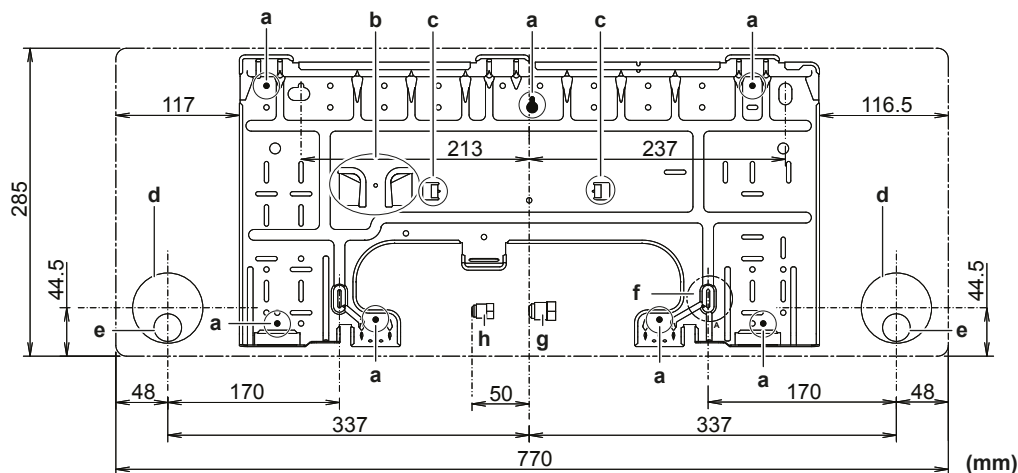


INFORMATION

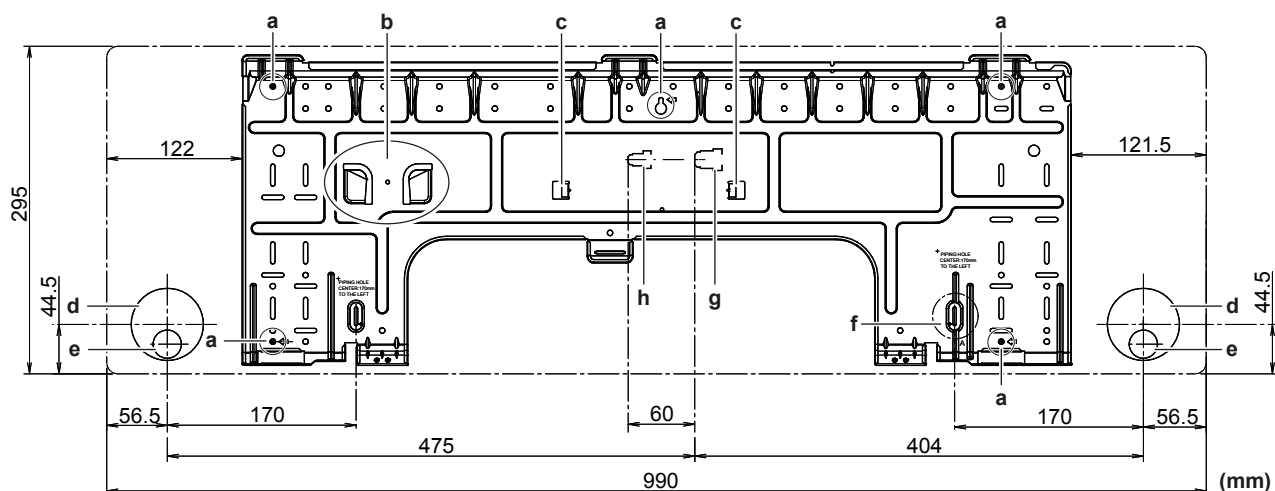
The removed pipe port cover can be kept in the mounting plate pocket.

5 Installation

Class 20~35:



Class 50~71:



- a Recommended mounting plate fixing spots
- b Pocket for the pipe port cover
- c Tabs for placing a spirit level
- d Through-the-wall hole Ø65 mm
- e Drain hose position
- f Position for the tape measure at symbol ">"
- g Gas pipe end
- h Liquid pipe end

5.2.2 To drill a wall hole



CAUTION

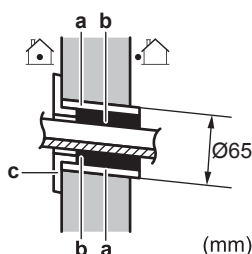
For walls containing a metal frame or a metal board, use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.



NOTICE

Be sure to seal the gaps around the pipes with sealing material (field supply), in order to prevent water leakage.

- 1 Bore a 65 mm large feed-through hole in the wall with a downward slope towards the outside.
- 2 Insert a wall embedded pipe into the hole.
- 3 Insert a wall cover into the wall pipe.



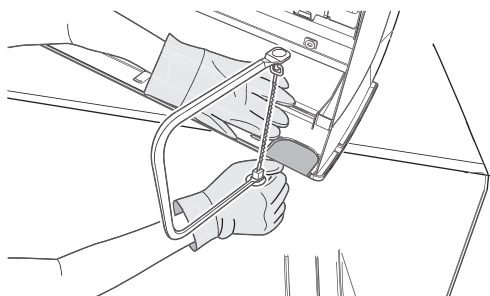
- a Wall embedded pipe
- b Putty
- c Wall hole cover

Note: After completing wiring, refrigerant piping and drain piping, do NOT forget to seal the gap with putty.

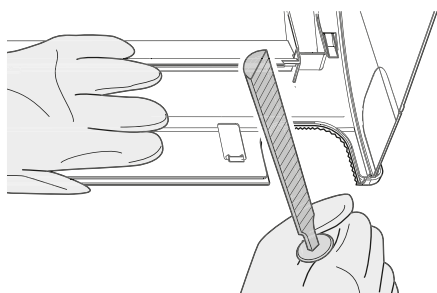
5.2.3 To remove the pipe port cover

To connect the piping on right-side, right-bottom, left-side or left-bottom, the pipe port cover **MUST** be removed.

- 1 Cut off the pipe port cover from inside the front grille using a coping saw.



- 2 Remove any burrs along the cut section using a half round needle file.



NOTICE

Do NOT use nippers to remove the pipe port cover, as this would damage the front grille.

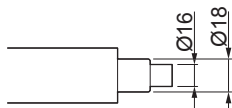
5.2.4 To provide drainage

Make sure condensation water can be evacuated properly. This involves:

- General guidelines
- Connecting the drain piping to the indoor unit
- Checking for water leaks

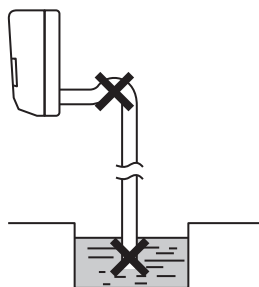
General guidelines

- **Pipe length.** Keep drain piping as short as possible.
- **Pipe size.** If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end.

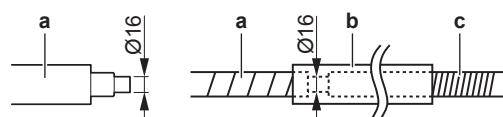


NOTICE

- Install the drain hose with a downward slope.
- Traps are NOT permitted.
- Do NOT put the end of the hose in water.

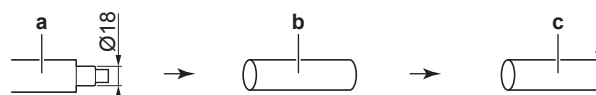


- **Drain hose extension.** To extend the drain hose, use a field supplied hose with inner Ø16 mm. Do NOT forget to use a heat insulation tube on the indoor section of the extension hose.



- a Drain hose supplied with the indoor unit
- b Heat insulation tube (field supply)
- c Extension drain hose

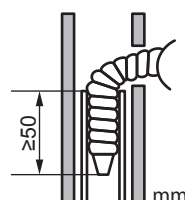
- **Rigid polyvinyl chloride pipe.** When connecting a rigid polyvinyl chloride pipe (nominal Ø13 mm) directly to the drain hose as with embedded piping work, use a field supplied drain socket (nominal Ø13 mm).



- a Drain hose supplied with the indoor unit
- b Drain socket with nominal Ø13 mm (field supply)
- c Rigid polyvinyl chloride pipe (field supply)

- **Condensation.** Take measures against condensation. Insulate the complete drain piping in the building.

- 1 Insert the drain hose in the drain pipe as shown in the following figure, so it will NOT be pulled out of the drain pipe.



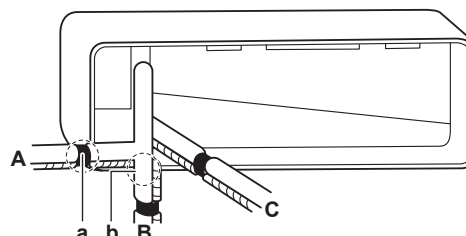
To connect the piping on right side, right-back, or right-bottom



INFORMATION

The factory default is right-side piping. For left-side piping, remove the piping from the right side and install it on the left side.

- 1 Attach the drain hose with adhesive vinyl tape to the bottom of the refrigerant pipes.
- 2 Wrap the drain hose and the refrigerant pipes together using insulation tape.



- A Right-side piping
- B Right-bottom piping
- C Right-back piping
- a Remove the pipe port cover here for right-side piping.
- b Remove the pipe port cover here for right-bottom piping.

To connect the piping on left side, left-back, or left-bottom



INFORMATION

The factory default is right-side piping. For left-side piping, remove the piping from the right side and install it on the left side.

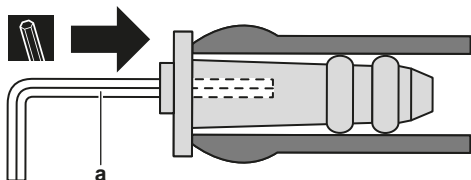
- 1 Remove the insulation fixing screw on the right side and remove the drain hose.
- 2 Remove the drain plug on the left side and attach it to the right side.

5 Installation



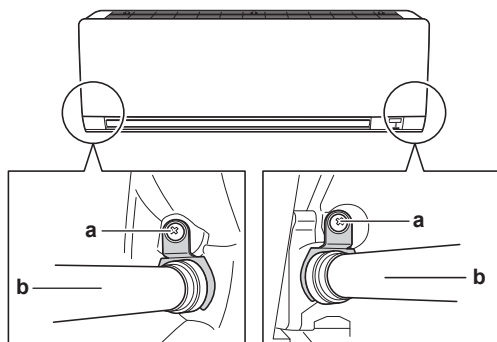
NOTICE

Do NOT apply lubricating oil (refrigerant oil) to the drain plug when inserting it. The drain plug may deteriorate and cause drain leakage from the plug.



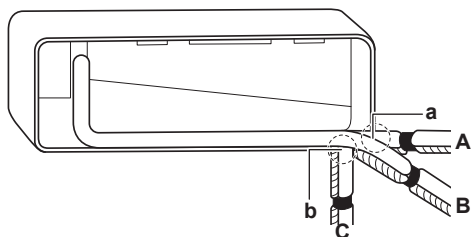
a 4 mm hexagonal wrench

- 3 Insert the drain hose on the left side and do not forget to tighten it with the fixing screw; otherwise water leakage may occur.



a Insulation fixing screw
b Drain hose

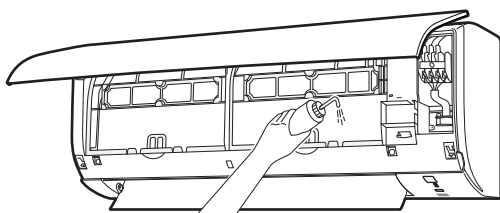
- 4 Attach the drain hose to the refrigerant pipes bottom side using adhesive vinyl tape.



A Left-side piping
B Left-back piping
C Left-bottom piping
a Remove the pipe port cover here for left-side piping.
b Remove the pipe port cover here for left-bottom piping.

To check for water leaks

- 1 Remove the air filters.
- 2 Gradually pour approximately 1 l of water in the drain pan, and check for water leaks.



5.3 Connecting the refrigerant piping

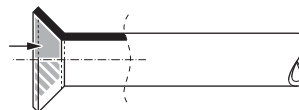


DANGER: RISK OF BURNING

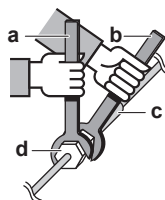
5.3.1 Guidelines when connecting the refrigerant piping

Take the following guidelines into account when connecting pipes:

- Coat the flare inner surface with ether oil or ester oil when connecting a flare nut. Tighten 3 or 4 turns by hand, before tightening firmly.



- ALWAYS use 2 wrenches together when loosening a flare nut.
- ALWAYS use a spanner and torque wrench together to tighten the flare nut when connecting the piping. This to prevent nut cracking and leaks.

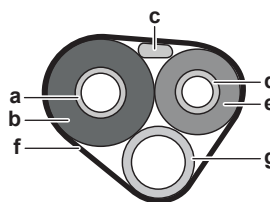


a Torque wrench
b Spanner
c Piping union
d Flare nut

Piping size (mm)	Tightening torque (N·m)	Flare dimensions (A) (mm)	Flare shape (mm)
Ø6.4	15~17	8.7~9.1	
Ø9.5	33~39	12.8~13.2	
Ø12.7	50~60	16.2~16.6	

5.3.2 To connect the refrigerant piping to the indoor unit

- Pipe length.** Keep refrigerant piping as short as possible.
- Flare connections.** Connect refrigerant piping to the unit using flare connections.
- Insulation.** Insulate the refrigerant piping, interconnection cable and drain hose on the indoor unit as follows:



a Gas pipe
b Gas pipe insulation
c Interconnection cable
d Liquid pipe
e Liquid pipe insulation
f Finishing tape
g Drain hose



NOTICE

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

5.4 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

ALWAYS use multicore cable for power supply cables.



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.



WARNING

Do **NOT** connect the power supply to the indoor unit. This could result in electrical shock or fire.



WARNING

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



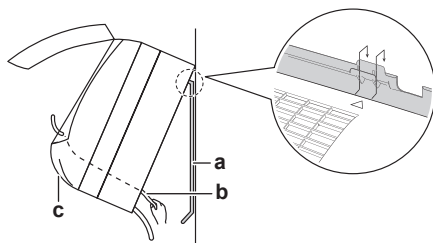
WARNING

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

5.4.1 To connect the electrical wiring on the indoor unit

Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice.

- Set the indoor unit on the mounting plate hooks. Use the "△" marks as a guide.



- a Mounting plate (accessory)
- b Interconnection cable
- c Wire guide

- Open the front panel, and then the service cover. Refer to "5.1.1 To open the indoor unit" on page 8.
- Pass the interconnection cable from the outdoor unit through the feed-through wall hole, through the back of the indoor unit and through the front side.

Note: In case the interconnection cable was stripped in advance, cover the ends with insulating tape.

- Bend the end of the cable up.



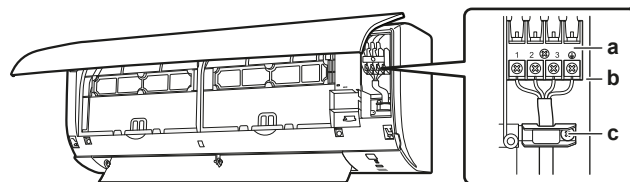
NOTICE

- Be sure to keep the power line and transmission line apart from each other. Transmission wiring and power supply wiring may cross, but may **NOT** run parallel.
- In order to avoid any electrical interference the distance between both wirings should **ALWAYS** be at least 50 mm.



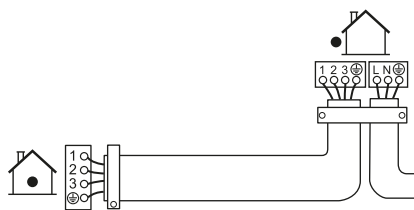
WARNING

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.



- a Terminal block
- b Electrical component block
- c Wire retainer

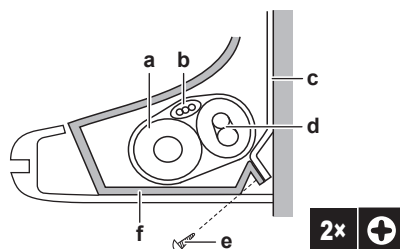
- Strip the wire ends approximately 15 mm.
- Match wire colours with terminal numbers on the indoor unit terminal blocks and firmly screw the wires to the corresponding terminals.
- Connect the earth wire to the corresponding terminal.
- Firmly fix the wires with the terminal screws.
- Pull the wires to make sure that they are securely attached, then retain the wires with the wire retainer.
- Shape the wires so that the service cover fits securely, then close the service cover.



5.5 Finishing the indoor unit installation

5.5.1 To insulate the drain piping, refrigerant piping and interconnection cable

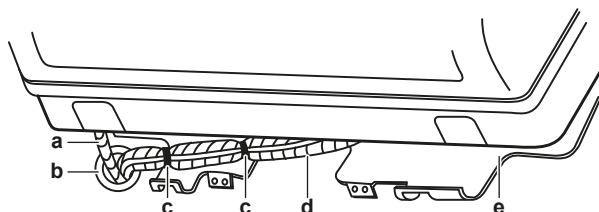
- After the drain piping, refrigerant piping and the electrical wiring are finished. Wrap refrigerant pipes, interconnection cable and drain hose together using insulation tape. Overlap at least half the width of the tape with each turn.



- a Drain hose
- b Interconnection cable
- c Mounting plate (accessory)
- d Refrigerant pipes
- e Indoor unit fixing screw M4×12L (accessory)
- f Bottom frame

5.5.2 To pass the pipes through the wall hole

- Shape the refrigerant pipes along the pipe path marking on the mounting plate.



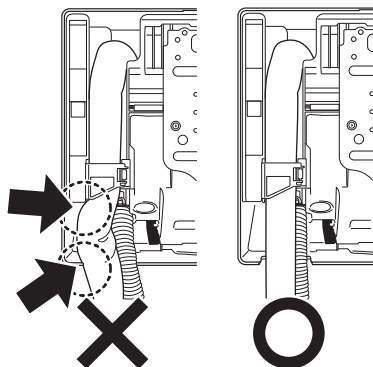
- a Drain hose
- b Caulk this hole with putty or caulking material.

6 Configuration

- c Adhesive vinyl tape
- d Insulation tape
- e Mounting plate (accessory)

NOTICE

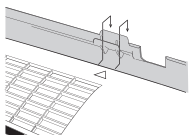
- Do NOT bend refrigerant pipes.
- Do NOT push the refrigerant pipes onto the bottom frame or the front grille.



- 2 Pass the drain hose and refrigerant pipes through the wall hole.

5.5.3 To fix the unit on the mounting plate

- 1 Set the indoor unit on the mounting plate hooks. Use the "△" marks as a guide.



- 2 Press the bottom frame of the unit with both hands to set it on the bottom hooks of the mounting plate. Make sure that the wires do NOT get squeezed anywhere.

Note: Take care that the interconnection cable does NOT get caught in the indoor unit.

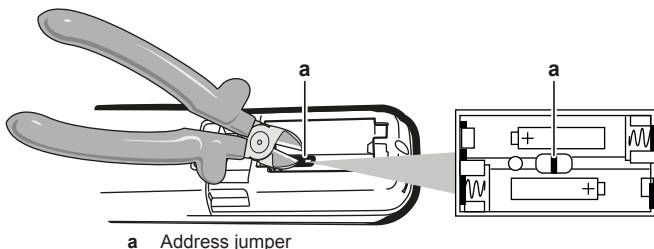
- 3 Press the bottom edge of the indoor unit with both hands until it is firmly caught by the mounting plate hooks.
- 4 Secure the indoor unit to the mounting plate using 2 indoor unit fixing screws M4×12L (accessory).

6 Configuration

6.1 To set a different address

In case 2 indoor units are installed in 1 room, different addresses for 2 user interfaces can be set.

- 1 Remove the batteries from the user interface.
- 2 Cut the address jumper.



NOTICE

Be careful NOT to damage any of the surrounding parts when cutting the address jumper.

- 3 Turn the power supply on.

Result: The flap of the indoor unit will open and close to set the reference position.

INFORMATION

- For FTXF-A units, the following setting MUST be completed within 5 minutes after the power supply is turned on.
- In case you could NOT complete the setting in time, turn the power supply off and wait at least 1 minute before turning the power supply back on.

- 4 Press simultaneously:

Model	Buttons
FTXP-L and ATXP-L	and
FTXF-A	and

- 5 Press:

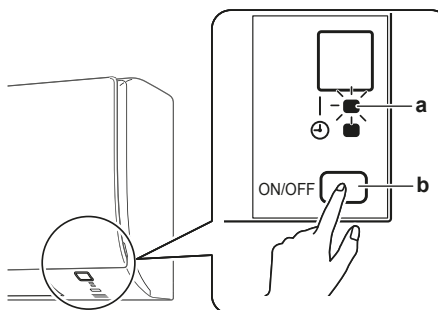
Model	Button
FTXP-L and ATXP-L	
FTXF-A	

- 6 Select:

Model	Symbol
FTXP-L and ATXP-L	
FTXF-A	

- 7 Press:

Model	Button
FTXP-L and ATXP-L	
FTXF-A	



- a Operation lamp
- b Indoor unit ON/OFF switch

- 8 Press the indoor unit ON/OFF switch while the operation lamp is blinking.

Jumper	Address
Factory setting	1
After cutting with nippers	2

INFORMATION

If the setting could NOT be completed while the operation lamp was blinking, repeat the setting process from the beginning.

- 9 When the setting is complete, press:

Model	Button
FTXP-L and ATXP-L	Keep pressed for about 5 seconds.

Model	Button
FTXF-A	

Result: The user interface will return to the previous screen.

7 Commissioning



NOTICE

NEVER operate the unit without thermistors and/or pressure sensors/switches. Burning of the compressor might result.

7.1 Checklist before commissioning

Do NOT operate the system before the following checks are OK:

☐	You read the complete installation instructions, as described in the installer reference guide .
☐	The indoor units are properly mounted.
☐	The outdoor unit is properly mounted.
☐	Air inlet/outlet Check that the air inlet and outlet of the unit is NOT obstructed by paper sheets, cardboard, or any other material.
☐	There are NO missing phases or reversed phases .
☐	The refrigerant pipes (gas and liquid) are thermally insulated.
☐	Drainage Make sure drainage flows smoothly. Possible consequence: Condensate water might drip.
☐	The system is properly earthed and the earth terminals are tightened.
☐	The fuses or locally installed protection devices are installed according to this document, and have NOT been bypassed.
☐	The power supply voltage matches the voltage on the identification label of the unit.
☐	The specified wires are used for the interconnection cable .
☐	The indoor unit receives the signals of the user interface .
☐	There are NO loose connections or damaged electrical components in the switch box.
☐	The insulation resistance of the compressor is OK.
☐	There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
☐	There are NO refrigerant leaks .
☐	The correct pipe size is installed and the pipes are properly insulated.
☐	The stop valves (gas and liquid) on the outdoor unit are fully open.

7.2 To perform a test run

Prerequisite: Power supply MUST be in the specified range.

Prerequisite: Test run may be performed in cooling or heating mode.

Prerequisite: Test run should be performed in accordance with the operation manual of the indoor unit to make sure that all functions and parts are working properly.

- 1 In cooling mode, select the lowest programmable temperature. In heating mode, select the highest programmable temperature. Test run can be disabled if necessary.
- 2 When the test run is finished, set the temperature to a normal level. In cooling mode: 26~28°C, in heating mode: 20~24°C.
- 3 The system stops operating 3 minutes after the unit is turned OFF.

7.2.1 To perform a test run in winter season

When operating the air conditioner in **Cooling** mode in winter, set it to test run operation using the following method.

For FTXP-L and ATXP-L units

- 1 Press , , and simultaneously.
- 2 Press .
- 3 Select .
- 4 Press .
- 5 Press to switch the system on.

Result: Test run operation will stop automatically after about 30 minutes.

- 6 To stop operation, press .

For FTXF-A units

- 7 Press to switch the system on.
- 8 Press the centre of , , and simultaneously.
- 9 Press twice.

Result: will appear on the display. Test run operation is selected.

Result: Test run operation will stop automatically after about 30 minutes.

- 10 To stop operation, press .



INFORMATION

Some of the functions CANNOT be used in the test run operation mode.

If a power failure occurs during operation, the system automatically restarts immediately after power is restored.

8 Disposal

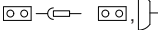
Dismantling of the unit and treatment of the refrigerant, oil and other parts MUST comply with the applicable legislation.

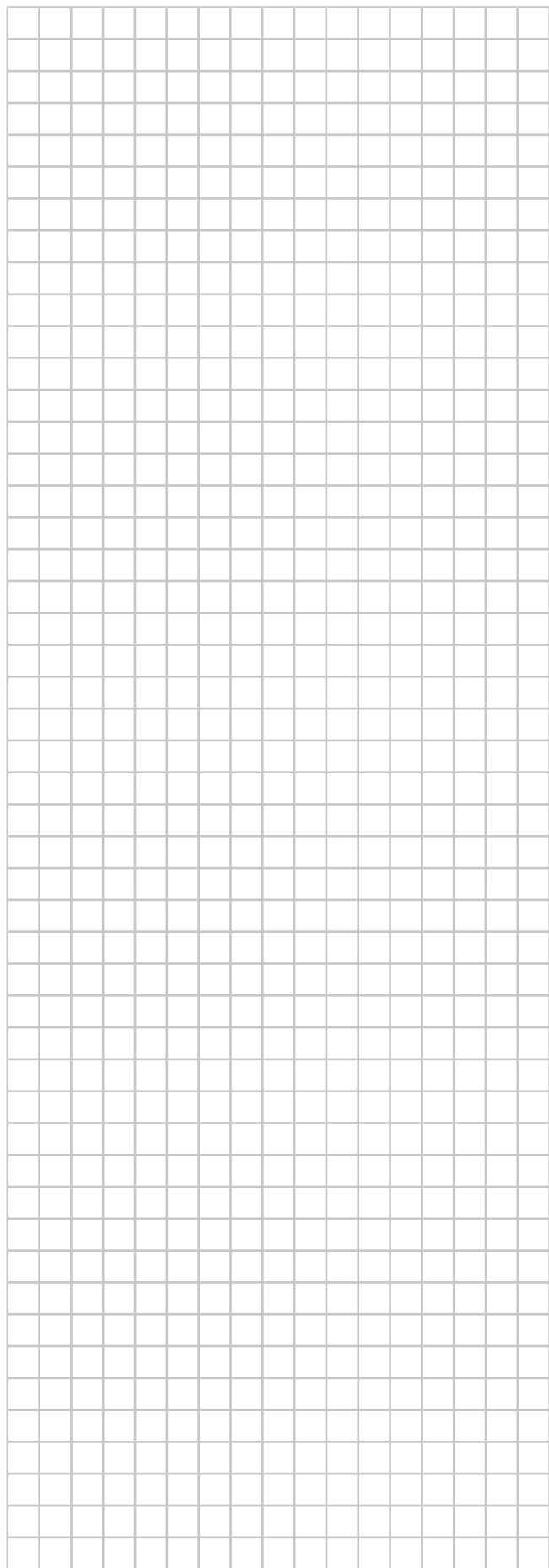
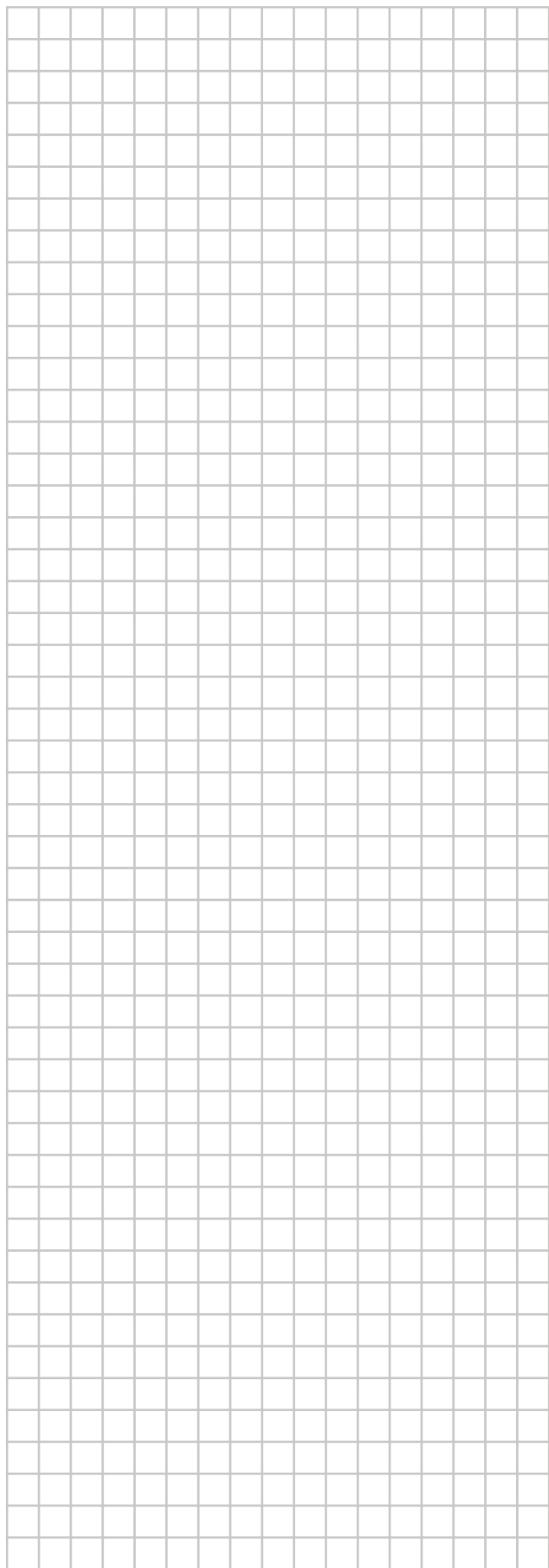
9 Technical data

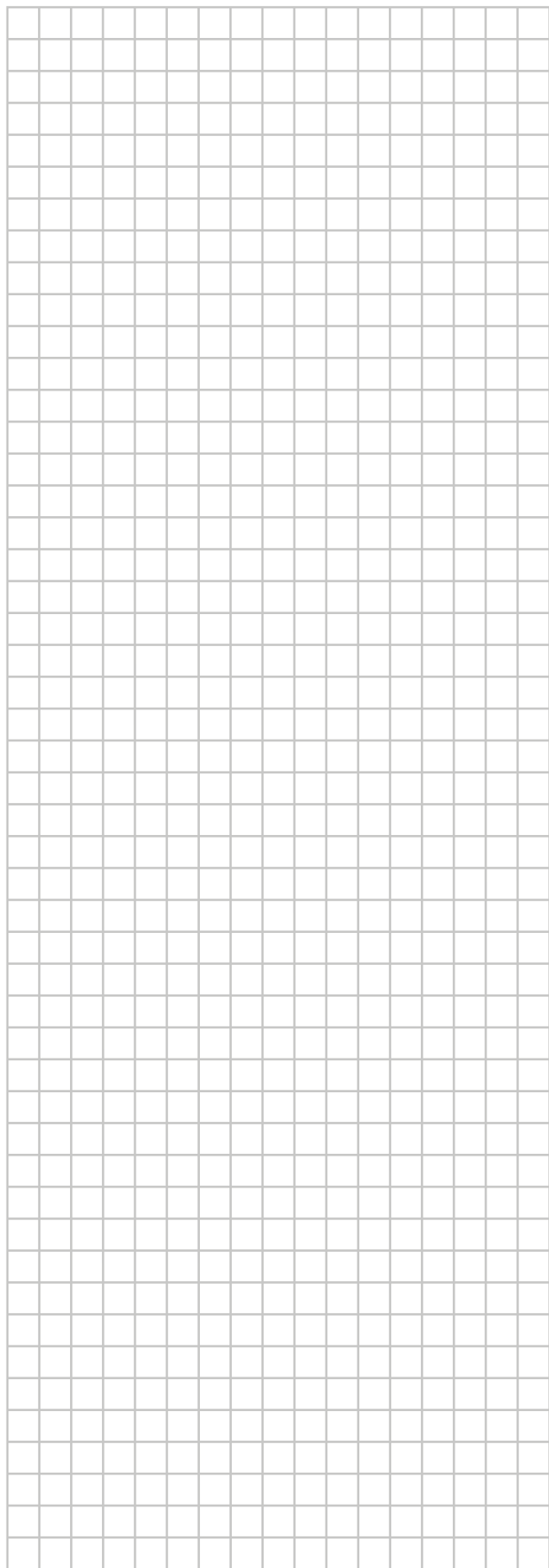
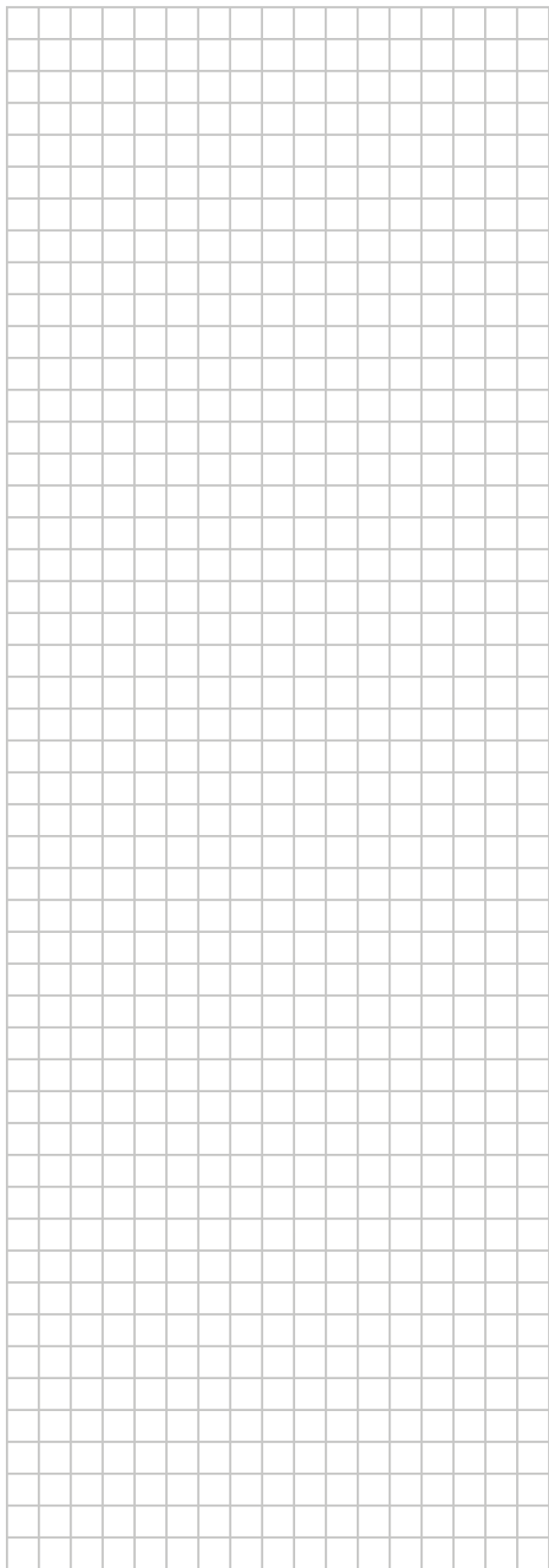
9 Technical data

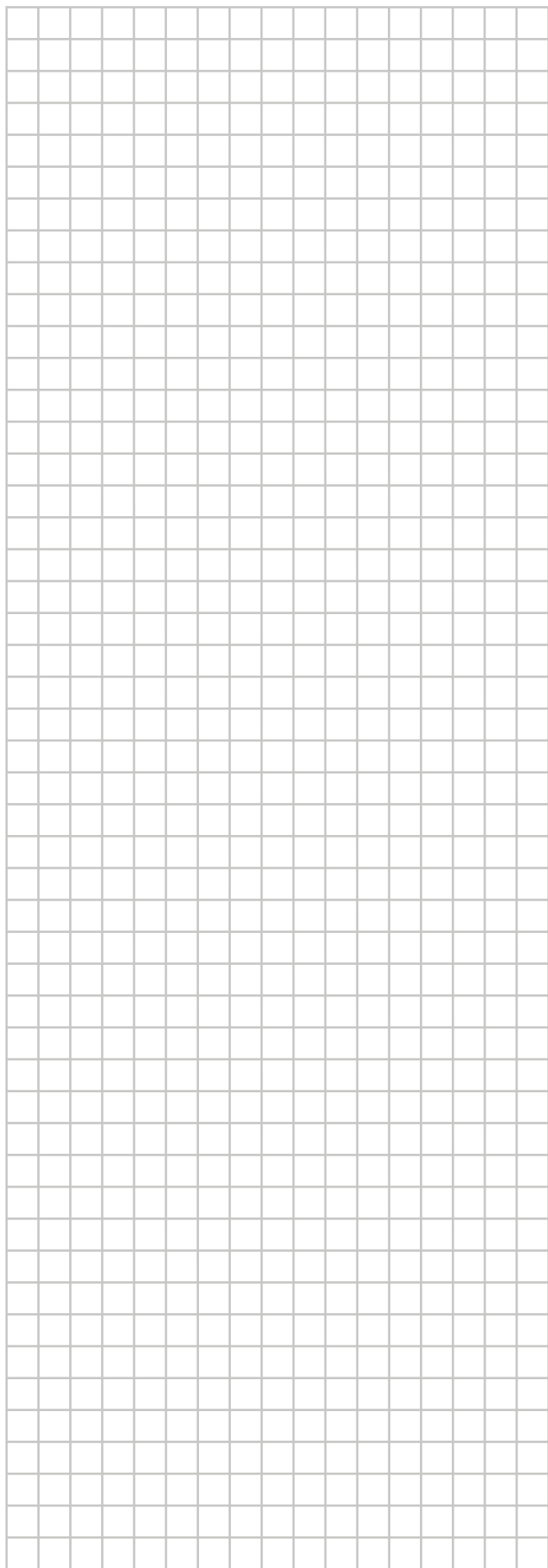
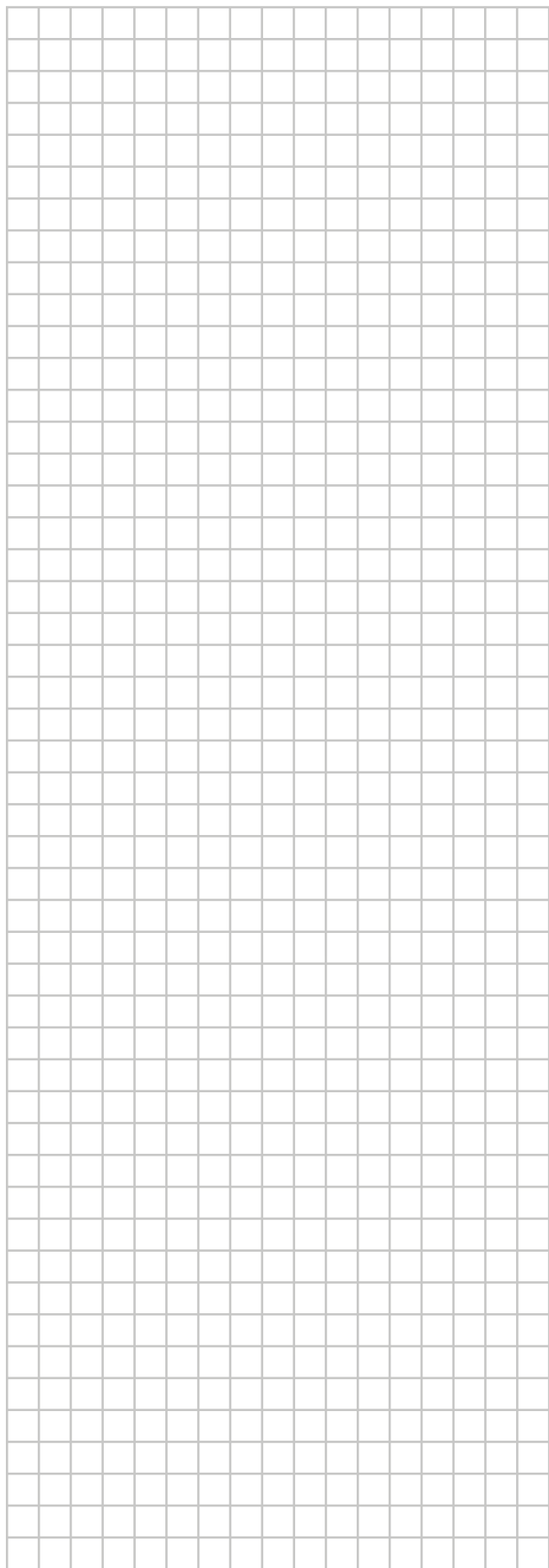
A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible). The **full set** of latest technical data is available on the Daikin extranet (authentication required).

9.1 Wiring diagram

Unified Wiring Diagram Legend					
For applied parts and numbering, refer to the wiring diagram on the unit. Part numbering is by Arabic numbers in ascending order for each part and is represented in the overview below by symbol “**” in the part code.					
	:	CIRCUIT BREAKER		:	PROTECTIVE EARTH
	:	CONNECTION		:	PROTECTIVE EARTH (SCREW)
	:	CONNECTOR		:	RECTIFIER
	:	EARTH		:	RELAY CONNECTOR
	:	FIELD WIRING		:	SHORT-CIRCUIT CONNECTOR
	:	FUSE		:	TERMINAL
	:	INDOOR UNIT		:	TERMINAL STRIP
	:	OUTDOOR UNIT		:	WIRE CLAMP
BLK : BLACK	GRN : GREEN	PNK : PINK	WHT : WHITE		
BLU : BLUE	GRY : GREY	PRP, PPL : PURPLE	YLW : YELLOW		
BRN : BROWN	ORG : ORANGE	RED : RED			
A*P	:	PRINTED CIRCUIT BOARD	PS	:	SWITCHING POWER SUPPLY
BS*	:	PUSHBUTTON ON/OFF, OPERATION SWITCH	PTC*	:	THERMISTOR PTC
BZ, H*O	:	BUZZER	Q*	:	INSULATED GATE BIPOLAR TRANSISTOR (IGBT)
C*	:	CAPACITOR	Q*DI	:	EARTH LEAK CIRCUIT BREAKER
AC*, CN*, E*, HA*, HE*, HL*, HN*,	:	CONNECTION, CONNECTOR	Q*L	:	OVERLOAD PROTECTOR
HR*, MR*_A, MR*_B, S*, U, V,			Q*M	:	THERMO SWITCH
W, X*A, K*R_*			R*	:	RESISTOR
D*, V*D	:	DIODE	R*T	:	THERMISTOR
DB*	:	DIODE BRIDGE	RC	:	RECEIVER
DS*	:	DIP SWITCH	S*C	:	LIMIT SWITCH
E*H	:	HEATER	S*L	:	FLOAT SWITCH
F*U, FU* (FOR CHARACTERISTICS,	:	FUSE	S*NPH	:	PRESSURE SENSOR (HIGH)
REFER TO PCB INSIDE YOUR UNIT)			S*NPL	:	PRESSURE SENSOR (LOW)
FG*	:	CONNECTOR (FRAME GROUND)	S*PH, HPS*	:	PRESSURE SWITCH (HIGH)
H*	:	HARNESS	S*PL	:	PRESSURE SWITCH (LOW)
H*P, LED*, V*L	:	PILOT LAMP, LIGHT EMITTING DIODE	S*T	:	THERMOSTAT
HAP	:	LIGHT EMITTING DIODE (SERVICE MONITOR GREEN)	S*RH	:	HUMIDITY SENSOR
HIGH VOLTAGE	:	HIGH VOLTAGE	S*W, SW*	:	OPERATION SWITCH
IES	:	INTELLIGENT EYE SENSOR	SA*, F1S	:	SURGE ARRESTOR
IPM*	:	INTELLIGENT POWER MODULE	SR*, WLU	:	SIGNAL RECEIVER
K*R, KCR, KFR, KHuR, K*M	:	MAGNETIC RELAY	SS*	:	SELECTOR SWITCH
L	:	LIVE	SHEET METAL	:	TERMINAL STRIP FIXED PLATE
L*	:	COIL	T*R	:	TRANSFORMER
L*R	:	REACTOR	TC, TRC	:	TRANSMITTER
M*	:	STEPPER MOTOR	V*, R*V	:	VARISTOR
M*C	:	COMPRESSOR MOTOR	V*R	:	DIODE BRIDGE
M*F	:	FAN MOTOR	WRC	:	WIRELESS REMOTE CONTROLLER
M*P	:	DRAIN PUMP MOTOR	X*	:	TERMINAL
M*S	:	SWING MOTOR	X*M	:	TERMINAL STRIP (BLOCK)
MR*, MRCW*, MRM*, MRN*	:	MAGNETIC RELAY	Y*E	:	ELECTRONIC EXPANSION VALVE COIL
N	:	NEUTRAL	Y*R, Y*S	:	REVERSING SOLENOID VALVE COIL
n=*, N=*	:	NUMBER OF PASSES THROUGH FERRITE CORE	Z*C	:	FERRITE CORE
PAM	:	PULSE-AMPLITUDE MODULATION	ZF, Z*F	:	NOISE FILTER
PCB*	:	PRINTED CIRCUIT BOARD			
PM*	:	POWER MODULE			







ERC



DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.

U Nové Hospody 1/1155, 301 00 Plzeň Skvrňany, Czech Republic

DAIKIN EUROPE N.V.

Zandvoordestraat 300, B-8400 Oostende, Belgium

Copyright 2017 Daikin

3P512025-1C 2018.01