DAIKIN

INSTALLATION MANUAL

English

Deutsch

VRV SYSTEM Inverter Air Conditioners

MODELS Wall-mounted type FXAQ15PAV1 FXAQ20PAV1 FXAQ25PAV1 FXAQ32PAV1	Français Español
FXAQ40PAV1 FXAQ50PAV1	Italiano
FXAQ63PAV1	Ελληνικά
READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.	Nederlands
KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE. LESEN SIE DIESE ANWEISUNGEN VOR DER INSTALLATION SORGFÄLTIG DURCH. BEWAHREN SIE DIESE ANLEITUNG FÜR SPÄTERE BEZUGNAHME GRIFFBEREIT AUF.	Portugues
LIRE SOIGNEUSEMENT CES INSTRUCTIONS AVANT L'INSTALLATION. CONSERVER CE MANUEL A PORTEE DE MAIN POUR REFERENCE ULTERIEURE.	Русский
LEA CUIDADOSAMENTE ESTAS INSTRUCCIONES ANTES DE INSTALAR. GUARDE ESTE MANUAL EN UN LUGAR A MANO PARA LEER EN CASO DE TENER ALGUNA DUDA.	Türkçe
PRIMA DELL'INSTALLAZIONE LEGGERE ATTENTAMENTE QUESTE ISTRUZIONI. TENERE QUESTO MANUALE A PORTATA DI MANO PER RIFERIMENTI FUTURI.	
ΔΙΑΒΑΣΤΕ ΠΡΟΣΕΚΤΙΚΑ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ ΠΡΙΝ ΑΠΟ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΕΧΕΤΕ ΑΥΤΟ ΤΟ ΕΓΧΕΙΡΙΔΙΟ ΕΥΚΑΙΡΟ ΓΙΑ ΝΑ ΤΟ ΣΥΜΒΟΥΛΕΥΕΣΤΕ ΣΤΟ ΜΕΛΛΟΝ.	
LEES DEZE INSTRUCTIES ZORGVULDIG DOOR VOOR INSTALLATIE. BEWAAR DEZE HAN- DLEINDING WAAR U HEM KUNT TERUGVINDEN VOOR LATERE NASLAG.	
LEIA COM ATENÇÃO ESTAS INSTRUÇÕES ANTES DE REALIZAR A INSTALAÇÃO. MANTENHA ESTE MANUAL AO SEU ALCANCE PARA FUTURAS CONSULTAS.	
ПЕРЕД НАЧАЛОМ МОНТАЖА ВНИМАТЕЛЬНО ОЗНАКОМЬТЕСЬ С ДАННЫМИ ИНСТРУКЦИЯМИ. СОХРАНИТЕ ДАННОЕ РУКОВОДСТВО В МЕСТЕ, УДОБНОМ ДЛЯ ОБРАЩЕНИЯ В БУДУЩЕМ.	
montajdan önce bu talimatları dikkatli bir biçimde okuyun. Gelecekte başvurmak üzere bu elkitabını kolay ulaşabileceğiniz bir yerde Muhafaza edin.	

CE - DECLARATION-OF-CONFORMITY CE - KONFORMITATSERKLÄRUNG CE - DECLARATION-DE-CONFORMITE CE - CONFORMITEITSVERKLARING	CE - DECLARACION-DE-CONFORMIDAD CE - DICHIARAZIONE-DI-CONFORMITA CE - AHAA2H 2YMMOP0A3H3 CE - AHAA3H 2YMMOP0A3H3		je - declaraçã Se - Jeclaraçã Se - Opfyldelse Se - Försäkran-C	CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBJREHÚE-O-COOTBETCTBUN CE - OPPTUDELSESERKLÆRING CE - FÖRSÅKRAN-OM-ÖVERENSTÅMMELSE	CE - EFKLÆRING OM-SAMSVAR CE - Ilmoitug-Yhdenmukaisuudesta Ce - Prohlásní-o-Shodé	SAMSVAR MUKAISUUDESTA SHODË	CE - IZJANA-O-USKLADENOSTI CE - MEGFELELŐSÉGI-NYILATKOZAT CE - DEKLARACJA-ZGODNÓŚCI CE - DECLARAŢIE-DE-CONFORMITATE CE - DECLARAŢIE-DE-CONFORMITATE		CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - JEKIJAPALUR-3A-CEOTBETCTBME	ce - Attitikties-deklaracija ce - Atbilstieras-deklaracija ce - Vyhlásene-Zhoy ce - Uvumluluk-bildírisi	Ŧ
DAIKIN INDUSTRIES, LTD. 10 @p declares under its sole responsibility that the air conditioning models to which this declar ation relates: 10 @p declares under its sole responsibility that the air conditioning models to which this declar ation relates: 10 @p declares under its sole responsibility that the air conditioning models to which this declar ation relates: 10 @p declares under responsibility that the air conditioning models to which this declar ation relates: 10 @p declares under responsibility that the air conditioning models to which this declar ation relates: 10 @p declares are i agents are a sole responsed to the declar ation of the declar ation: 20 @ declare soulds as selidie responsed to the declar ation of the declar ation: 10 @p declare and on a low declared at the air conditioning until waarop decar whetlang benefiting the dit de airconditioning until waarop decar whetlang benefiting the declara at the at conditioning until waarop decar whetlang benefiting the declara at the airconditioning until waarop decar whetlang benefiting the declara at the airconditioning until waarop decar whetlang benefiting the declara at the airconditioning until waarop decar whetlang benefiting the declara at the airconditioning until waarop decar whetlang benefiting the declara at the airconditioning until waarop decar at the declara at the airconditioning until waarop decar at the declara at the declara at the airconditioning until waarop decar whetlang benefiting the declara at the airconditioning until waarop declara at the airconditioning until waarop decar at the declara at the antidating at the declara at t	Inditioning models to which this doelle der Klimageräte für die eist Sänr conditioning u eist de arie conditioning u elss de arie conditioning u elss de arie condicionado at nuw Nuturntrivko urowen modelos de ar condicionado a vro wapawivonepos sos vor wapawi konpawiponepos sos vor wapawi konpawiponepos sos vor wapawi konpawiponepos sos	s declar ation relates: diese Erklarung bestimmt ist. La présente déclar ation: mils waarop deze verklaring betrekk so cuales hace referencia la declara a chilarazione: su our onnoi ovopéperun i mopoi a que esta declaração se refere: agiva. k voropeu orneoirroneu 32PAV1, FXAQ40PA	10 (ing heeft: 11 С acion: 12 С acion: 13 (16 С basent: 16 С basentene: 18 (ре заявление: 18 (ре заявление: 18 (ре заявление: 18 ((10 (26) erkitarer under eneansvar, at klimaarlitägmoo (21 (25) deklarerar i egenskap av huvdansvarig, att 11 (25) deklarerar i egenskap av huvdansvarig, att 12 (26) erkitarer et tultistendig ansvar for at de luftforn (26) (26) erkitarer et valstendig ansvar for at de luftforn (26) (26) erkitarer av ster prin ekotektion dogroundsk (26) (21) (26) erkitarer av ster prin ekotektion dogroundsk (26) (21) (25) erkitarer av ekotektion dogroundsk (27) (26) ekotarig ne velser av ekotektion dogroundsk (28) (20) (27) (27) (20) (27) (20) (27) (20) (20) (20) (20) (20) (20) (20) (20	limaanlægmoo Jansvarig, att l at de luftkor struullaan, ett chosti, že moo n odgovornoš, elenti, hogy a elenti, hogy a cå aparatele d	leilerne, som denne deklaration vedrører: uttkonditioneringsmodellerna som berörs av denna deklaration uttkonditioneringsmodellerna som berörs av denna deklaration inneb t tämän linnofuksen tarkoittamat linnastointilaittaiden malitt: e) kulmatizase, k inniž se ioto pornalašan 'zatahuje: 2.u da su modeli kinna uredaja na koje se ova izjava odnosi: finnaberindezäs nodeli ki, melyvär e nyilaktvaz vionalkotäx. nos6, že modele kinnatyzatorów, ktörych dotyczy ninlejsza dek e aer conditjonat la care se referå aceasta declarajie:	na deklaration innebăr att: karasjon înnebbarer at: den malitt: ale litt: va odnost: rat vonatkozi: ratije: rajie:	 E. veo odgovomo E. veo odgovomo E. veo interprise and tailing the experimentation of the experimen	 (9) ((a) 2 vec odgovornosijo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša. 20 ((b) klimiteb oma talelikul vastutuse), et käesoleva elektaratsiooni alla kuuluvad klimaseadmete mudelici. 21 ((b) gavoppa ka esioo romeopeoor; ve kuopelure konkaratura, sa korno se orivaar rask gevapature; 23 ((c) visiška savo atsakomjte skelbia, kad oro kondicionavimo prietaistų modeliai, kuriems yra takomo se dradarja; 23 ((c) visiška savo atsakomjte skelbia, kad oro kondicionavimo prietaistų modeliai, kuriems yra takoma ši deklaracija; 23 ((c) visiška savo atsakomjte skelbia, kad oro kondicionavimo prietaistų modeliai, kuriems stienes ši deklaracija; 24 ((c) vyhlasuje na vlastnu zodprvednost, že tieto klimatizačnė modely, na ktoré sa vztahuje toto vyhlasenie: 25 ((t) tanamen kendi sorumluugjunda olmak üzere bu bildinin rigili oldugu klima modellerinin asagidaki gibi oldugunu beyan eder. 	se irigiva nanaša: Juad klimaseadmete mudelid: Juad klimaseadmete mudelid: Sdelia, kuriems yra taikoma ši deklaracija: Bitji, uz kuriem attiecas ši deklaracija: torić sa vztahuje toto vyhlásenie: toré sa vztahuje toto vyhlásenie: díma modellerinín asjájdaki gibi olduğuru beyz	e e e e
01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions. 26 earlies holpenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, das sie gemäß unseren Anweisungen eingesetzt werden: 36 sont oncimens i alakax normels) ou autreis) formatilis), pour autant qu'ils soient utilises conformément à nes instructions: 40 conformes al alaxax normels) ou autreis) document(s), pour autant qu'ils soient utilises conformément à nes instructions: 40 conformes al alaxax normels) ou autreis) document(s), pour autant qu'ils soient utilises conformément à nes instructions: 40 conformé volgende norm(en) of één of meer andere biodende documenten zijn, op voorwaarde dat ze worden gebuikt overeenkomstig conformément de volgende norm(en) of één of meer andere biodende documenten zijn, op voorwaarde dat ze worden gebuikt overeenkomstig conformément de volgende norm(en) of één of meer andere biodende documento(s), normativo(s), siempre que sean utilizados de acuerdo con nexte instructions: 60 conform du solgende(s) radiand(s) o attroi(s) documento(s) a carattere normativo, a patto che vengaro usati alla normina alle nore ontorim alla siguente(s) radiand(s) o attroi(s) documento(s) a carattere normativo, unto triv ripoimdécon on typoinonouxita oppevonte in toohoristi user tooinoristi and site normative is tructionit. 60 conformément data conformética data conformética andere site contractive in the conformation of the conformation oppevolue in the conformation and conformation and conformation and conformation in the conformation oppevolue in truction oppevolue in truction of the conformation oppevolue in the conformation oppevolue in truction. 60 conformation oppevolue in the conformati	r normative document(s), prov dokument oder -dokumenten n; (s) normatif(s), pour autant qu' id) normativ dende documente)(s) normativ otro(s) documento(s) normativ otro(s) documento(s) normativ s) Mo étyppopo(s) korvovroµúv	vided that these are used in accorr, entspricht/entsprechen, unter der V is solient utliteks conformément à nr onwaarde dat ze worden gebruik o oor), siempre que sean utilizados d into, a patto che vengano usati in c tivo, a patto che vengano usati in c v, unto triv ripoturio8con on yon		08 estão em conformidade com a(s) seguinte(s) nor acordo com sancesas intrucções: whortprover cnearyouquer and a para mercipyrumar. mercipyrumar. nextraker: nextraker: instraker: instraker: 11 respetive utrustning ár utfud i ôverensstämmel forustatimar a maradioning sker i ôverensstämmel diss brudes i henhold til àră instrukesr: 12 respetive utstyr er i overensstämmel diss brudes i henhold til àră en instrukesr: makaisesti andadou, že jsou využivany v souladu s naš 15 u skladu sa slijedečim standardom (ma) ili drugim r 15 u skladu sa slijedečim standardom (ma) ili drugim	OB estáo em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utiliza 09 contencrensis instruções: инструкцияц: инструкцияц: покитобен (algende standard(er) eller andektandre retningsgivende dokument(er), forudsat at disse anvendes i henhold 10 estrubser: 11 respektive utrustning at utilord i överensstämmelse med och (töljet följande standard(er), lorudsat at disse anvendes i henhold sisse buket er i overensstammelse med optender standard(er) eller andra normgivande dokument 21 respektive utustrust er i overensstämmelse med och (töljet följande standard(er) eller andra normgivande dokument 32 respektive utustrust er i overensstämmelse med logende standard(er) eller andra normgivende dokument 31 assandt seuravien standardren ja muiden ohjeellisten dokumentien vaatimuksia edellytäen, että mitä käyretään ohjei 31 assand seuravien standardren ja muiden ohjeellisten dokumentien vaatimuksia edellytäen, että mitä käyretään ohje 31 septedpoletia standardren jii drugim normativnim dokumentien), uz uvjet da se oni koriste u skadu s našim upu 42 a skladu sa slijedecim standardom(ima) ili drugim normativnim dokumentiom.) documento(s) normativo(s), au документам, при условим de dokument(er), forudsat a ribitande standard(er) eller a rubitoner:) eller andre normgivende dol enttien vaatimuksia edelujtäa enttien vaatimuksia edelujtäa vidaji näsledujicim normäm ne rentiom(ima), uz uvjet da se or	86 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo prestranças manosas instruções. 80 consenterrayor creazyoquem cranaças instruções. 80 consenterrayor creazyoquem cranaças instruções. 90 consentoder indigende standard(en) eller andei an	 fin megfelelnek az alábbi szabváry(ok)n 17 speniaja, wymgi mastispulących no 17 speniaja, wymgi mastispulących no 18 sunt in conformitate cu urmátorul (ur conformitate cu urmátorul (ur 18 skadní z nastednjími standardí ná do nvastavues jigymis(je standardí úr 20 o nvastavues jigymis(je standardí úr 20 o nvastavues jigymis(je standardí úr 20 su zhode s nastedovnotými norm s naším havdoním 25 úrůnů, talímatlanmíza göre kullaním 	 fin meglelenek az alábbi szabvány(ok)nak vegy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják. 17 sterintája wymogi mastepujecych nom i imnych dokumentów nomalizacyjnych, pod warunkiem že używane są zgodnie z naszymi instrukcjami: such in conformitate cu umátorul (urmátoarele) standardje) sa ultej document(e) nomativ(e), cu condiția ca acestea sá fe utilizate în osoformitate cu umátorul (urmátoarele) standardje) sau altej document(e) nomativ(e), cu condiția ca acestea sá fe utilizate în ostrukcjami: such în conformitate cu umátorul (urmátoarele) standardje) su altej document(e) nomativ(e), cu condiția ca acestea sá fe utilizate în osoformitate cu instrucțiunite nosste 20 n vastavuess järgimis(je standard) jejo või teste normátiveel dokumentubega, kui neid kasutatakse vasterat meje juhendritele: 21 consenterara na creguvire cra-tagapri vium, други норматиени документи, при ycnoвиe, че се използват cvrnacyon auwre interprycuri. 23 atiri ja iteloit abitistisi rizztolaja nordinjimen, abitis sekojošisim standardim un cliem normátiven dokumentus 31 atir, ja iteloit abitistisi rizztolaja nordinjimen, abitis sekojošisim standardim un cliem normátiven dokumentim: 32 atiri zi an areadorum nordyus standardimen, abitis sekojošisim standardim un cliem normátiven dokumentimen: 33 atiri zina analodim normov(jami) alebo iným() normativnym() dokumentom(ami), za predpokladu, že sa puzivajú v súlade si vi zindos s nasiedornou(jm) normov(jami) alebo iným() normativnym() dokumentom(ami), za predpokladu, že sa puzivajú v súlade si vi zindos s nasiedornou(jm) normov(jami) aspadidisi standartar ve nom belirten belgelerle uyumludur. 	(ok)nak, ha azokat előírás szerint használják. /jnych, pod warunkiem že užywane sa zgod ment(e) normativ(e), cu condígia ca acestea sá ucabljajo v skladu z našimi navoditi: tidega, kui neid kasutlakise vastavat mele juh letrit, inpi ycznoswe, чe ce vranonsast ckri tetrit, npi ycznoswe, чe ce vranonsast ckri tetrit, a sejelen i pada misų nuroo u nu cilem normativiem dokumentiem: jokumentom(am), za predpokladu, že sa použi norm belirten belgelerle uyumíudur:	z naszymi 9 utilizate în 9 utilizate în 9 v sulade 1 v sulade
: tions des: ngen van: s de: rr em: ниямии:	10 under iggtragelse af bestemmelserne i: 11 enlig vilkoren i: 20 tri Inenhoud til bestemmelsene i: 13 noudatteen määräyksiä: 14 za doofžen iustansven ipfedpisu: 15 prema odredtama: 17 godina 2 postanoveniami Dyrektyw: 18 in urma preveden[or.	19 ob upoštevanju določis: 20 vastavati rovetele: 21 orapnasivno krangvare va: 21 orapnasivno krangvare va: 21 elevanis nuostalu, pateklamu; 22 elevanis nuostalu, pateklamu; 23 elevanis nuostalu, pateklamu; 23 elevanis nuostalu, pateklamu; 23 elevanis valgura vastava valgura elevani; 23 elevanis nuostalu pateklamu; 23 elevanis vastava vastava elevani; 24 održavajúc ustanovenia: 25 burun krstularna vygur olarak;	mų: Bildass arak:	Electro	Machir Electromagnetic Compatibi	Machinery 2006/42/EC Compatibility 2004/108/EC	01 Directives, as amended 22 Directives, alleig que mo 02 Directives, alleig que mo 03 Directives, calleig que mo 03 Directives, conde da modi 06 Directives, conde da modi 08 Directives, condorme da 09 Directives co ecevin nor	 Directives, as amended. Directives, as amended. Directives, gemäß Anderung. Directives, geling up modifiess. Hichtillinen, zoals geamendeerd. Directivas, seguin lo ammendato. Directivas, come da modifica. O'Dirput, vinus, cyour ripornorgibi. Directivas comorme alteração em. Directivas comorme alteração em. 	 Direktiver, med senere ændringer. Direktiver, med foretagna åndringar. Direktiver, med foretagne andringar. Direktiver, med foretagne andringar. Direktiver, med foretagne andringar. Direktiver, med seneratise endringar. Strinjenion, aktor je izmitjenjeno. Li z pörbiejszvin popravkami. Directivelor, cu amendamentele respective. 	 Direktive z vsemi spremembami. Direktive z vsemi spremembami. 20 Direktivos su papiloymas. 22 Direktyose su papiloymas. 23 Direktivas un to papiloidiumos. 24 Smemica, v platnom znemi. 25 Değiştirilmiş hallenyde Yönetmelikler. 	L. Ikker.
01 Note* as set out in 4A> and judged pasitively by 4B> 22 Hinweis* according to the Certificate 4C>. 28 win in 4C> augmitted in 11 word words positive 03 Remarque* tel que defini dans 24 eritedus 4A 28 Secontormement au Certificat 4C>. Developed for an existing territivat 4A 29 Remarque* etendus 4A> eriedus positivement par 4D> 20 Bernerk* Zos wench in 4A> positive bounded door 29 nono se establece en 4A> y er valorado 26 Nota* como se establece en 4A> y er valorado 26 positivement por 4C> de acuerdo con el Certificad 4C>.	 CB Nota* The Nota* The Nota* An par CB Nota* CB Велаек** 	delineation rei <pre><pre>delineation rei <pre><pre>delineation rei <pre><pre>del <pre><pre>del <pre><pre>del <pre><pre><pre>delineation rei <pre><pre><pre><pre><pre>din <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		Information * Merk * Huom * Poznámka * Napomena *	enigr 4A> coch godárstav 4D> enigr Certifikatet 4C>. corr der lernkommer (4D> oggiennom positiv norm der lernkommer (4D> oggies port an ensitiv a sakéting 4D> on tyváksyny Sertifikation 4C> mutasesti. port an ensiter va 4D> a pozitivná sijálsino 4D> v jálk valovenov 4A> a pozitivná sijálsino 4D> v stalou se vedetérmu 4C> i pozitivna odjenjeno od strane 4D> prenna Certifikatu 4C>.	16 Megjlegyzás* aj: 42: 42: 42: 42: 42: 42: 42: 42: 42: 42	42) 42- alapjän, al2) 42- igazolla a megleleiest, al2) 42- tamústívány zcenin. zgodne cokomenciaja 42- pozytyma opinią 48- 15 Świadectwem 42 48- 16 conformitale uz Centrificatul 42 kcije dodors v 44- in odoreno s stran 42- v kadu s centrifikatom 42 ragu on näidatud dokumendis 42- ja hvals indeuud 42- jagy vastavalt sertrifikaadile 42	21 3a6enexxa* 22 Pastaba* 23 Piezimes* 24 Poznámka* 25 Not*	ractro e vratoveno s 4A+ v oueneno noncourrento or 4B+ ccJraccho Demokurrento or 4B+ ccJracho Japonenia e contractoria al contractanta la norádita 4A+ i vala legianal muspresta 4B> pagal Sertifikata 4C+. I la norádita 4A+ un atbitististi 4D+ postinejam veľbijuma maskataná ar sentifikatu 4C+. Ab da belníbija jubi ve 4C+ Sentifikastna 4D+ da belníbija jubi ve 4C+ Sentifikastna dgré efectina olumi olarak degáreknimácijá jubi.	 A> DAIKIN.TCF.024 E15/02-2012 B> TÜV Rheinland EPS B.V. (NB1856) C> 0510260101 	2 81856)
01** Dakin Europe NV is authorised to complei the Technical Construction File. 07** H Dakin Europe N. 02** Dakin Europe NV, hat die Berechtigung die Technische Konstruction rechnique. 08** A Dakin Europe NV. 03** Dakin Europe NV, hat die Berechtigung die Technische Konstruction rechnique. 08** A Dakin Europe NV. 03** Dakin Europe NV is beroegd om het Precisich Construction rechnique. 08** A Dakin Europe NV. 03** Dakin Europe NV. 08** Dakin Europe NV. 03** Dakin Europe NV. 10** Dakin Europe NV. 05** Dakin Europe NV. 11***********************************	al Construction File. e Konstruktionsakle zusamme le Construction Technique. tructledossien samen la stellen to di Costruzion Techica. to di Costruzion. B-B-	oste	rope N.V. skou sčouo rope N.V. skou sta autorizat pa N.V. ar autorisater til pa N.V. ar benyndigate e N.V. ar fillatelse til å pi UTT	07" H Dajkin Europe N.V. skor sčoudočomjučvn vo duvrčiše rov Tstviké opeció korrodneuriç. 08" A Dajkin Europe N.V. seka autorizada a complar a documentação técnica de fabrico. 09" Koumawa Dajkin Europe N.V. monexouvena corramar N. Koumaer T reavvección дoxywentaujus. 10" Dajkin Europe N.V. a rautorisetenti al udarbejde de tekniske konstruktionsdata. 11" Dajkin Europe N.V. ar bemyndigada att sammarsital den tekniske konstruktionsfilen. 12" Dajkin Europe N.V. har fillatelse til à kompliere den Tekniske konstruktionsfilen.	<i>i</i>	 Daikin Europe NV, on va 44". Společinost Daikin Europe 55". Daikin Europe NV, je ovi 66". A Daikin Europe NV, nau 18". Daikin Europe NV, este 18". Daikin Europe NV, este 	 Takin Europe NV, on valhuuettu laatimaan Teknisen asiakirjan. Společnost Daikin Europe NV, ma oprävnění ke kompilaci souboru technické konstrukce. Takin Europe NV je ostašten za izradu Datolske o tehnickoj konstrukciji. Daikin Europe NV je ostašten za izradu Datolske o tehnickoj konstrukcija data. Tabikin Europe NV, je ostašten za izradu Datolske o tehnickoj konstrukcija. Tabikin Europe NV, je ostašten za izradu obatolske o tehnickoj konstrukcija data. Tabikin Europe NV. ma upovažnienie od ozbratenia i oprazowywania dokumentacji konstrukcijnej. Daikin Europe NV. esle autorizat sä compileze Disandi lehnic de construcție. 	u technické konstrukce. Lu kecnické konstrukce. Jó összealittására. a dokumentarji konstrukc xonstrucje.		 Dakin Europa NV, je pooblaščen za sestavo daloteke s tehnično mapo. Dakin Europa NV, on voltatud koostama tehnilist dokumentalsiooni. Inabakin Europa NV, en oroparapana za cscrata Akra sa tewavecas coverpycuns. Inabakin Europa NV, na igalika usdavid ji enimeisk konstrukcijos falia, Inatin Europa NV, ra udorzaks sastali tehnisko dokumentačiju. Soločnosť Daikin Europa NV, ra lodrašts sastali tehnisko kontentačiju. Soločnosť Daikin Europa NV, na oprávnená výtvortí súbor technickej konštrukcie. Dakin Europa NV. Teknik Yapi Dosyasni derlemeje vetkilidír. 	
3P313807-1	Shinri-Sada		21a 21a	Shinri Sada Manager Quality Control Department 21st. of Feb. 2012	trol Department			DAIKIN Umeda Center Kita-ku, Osaka	DAIKIN INDUSTRIES, L Umeda Center Bldg., 2-4-12, Nakazaki-Nishi, Kita-ku, Osaka, 530-8323 Japan	NES, LTD. kazaki-Nishi,	



CONTENTS

1.	SAFETY PRECAUTIONS	1
2.	BEFORE INSTALLATION	3
3.	SELECTING INSTALLATION SITE	5
4.	INDOOR UNIT INSTALLATION	6
5.	REFRIGERANT PIPING WORK	10
6.	DRAIN PIPING WORK	12
7.	ELECTRIC WIRING WORK	13
8.	HOW TO CONNECT WIRINGS AND WIRING EXAMPLE	14
9.	FIELD SETTINGS	20
10.	TEST RUN	21

This English text is the original instruction. Other languages are translations of the original instructions.

1. SAFETY PRECAUTIONS

Please read these "SAFETY PRECAUTIONS" carefully before installing air conditioning equipment and be sure to install it correctly.

Meaning of WARNING and CAUTION notices.

Both are important notices for safety. Be sure to follow them.

CAUTIONFailure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

After completing installation, conduct a test run to confirm that the equipment operates without any problems. Then, explain to the customer how to operate the equipment and take care of it following the operation manual. Ask the customer to store the installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

This unit is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

- Ask your dealer or qualified personnel to carry out installation work.
- Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- When installing the unit in a small room, take measures so that the refrigerant may not exceed the limiting concentration in the event of refrigerant leakage. Contact your dealer for further information. If the refrigerant leaks and exceeds the limiting concentration, it may lead to oxygen deficiency.
- Be sure to use only the specified accessories and parts for installation work.

Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.

- Install the air conditioner on a foundation strong enough to withstand the weight of the unit. If a foundation does not have sufficient strength, the equipment may fall and cause injury.
- Carry out the required installation work in consideration of strong winds, typhoons or earthquakes.
- If the installation work is not properly carried out, the unit may fall down and cause accidents.
- The electrical work must be carried out by the qualified electrician in accordance with the local laws and regulations and this installation manual. Make sure to provide a dedicated power supply circuit and never connect additional wiring to the existing circuit.
- An insufficient power supply capacity or improper electrical work may lead to electric shocks or fire.
- Be sure to earth the air conditioner.
 Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead.
 Imperfect earthing may result in electric shocks or fire.
 A high surge current from lightning or other sources may cause damage to the air conditioner.
- Be sure to install an earth leakage breaker.
 Failure to install an earth leakage breaker may result in electric shocks or fire.
- Be sure to switch off the unit before touching any electrical parts. Touching a live part may result in electric shock.
- For wiring, use the specified wires and connect and fasten them firmly so that no external force from the wires may be applied to the terminal connections. If the wires are not firmly connected and fastened, it may cause heating, fire or the like.
- Wiring for power supply and between the indoor and outdoor units must be properly laid and formed, and the control box cover must be firmly fastened so that the wiring may not push up the structural parts such as the cover.

If the cover is improperly fastened, it may cause electric shock or fire.

- If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage.
 Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- Do not directly touch refrigerant that has leaked from refrigerant pipes or other areas, as there is a danger of frostbite.

• Carry out drain piping properly following this installation manual and insulate the pipe to prevent condensation.

Improper drain piping may result in indoor water leakage and property damage.

- Install the indoor and outdoor units, power cord and connecting wires at least 1 meter away from televisions or radios to prevent picture interference and noise.
- (Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.) • Install the indoor unit as far as possible from fluorescent lamps.
- If a wireless kit is installed in a room where the electronic lighting type (inverter or rapid start types) fluorescent lamps exist, the transmitting distance of a remote controller may be shorter.
- Do not install the air conditioner in the following locations:
 - 1. Where there is a high concentration of mineral oil spray or vapour (e.g. a kitchen). Plastic parts may deteriorate and cause parts to fall off or water to leak.
 - 2. Where corrosive gas, such as sulphurous acid gas, is produced.
 - Corrosion of copper pipes or brazed parts may occur and cause refrigerant leakage.
 - 3. Where there is a machine that generates electromagnetic wave and where voltage fluctuation often occurs such as a factory.
 - Control system may malfunction and as a result the unit may not properly operate.
 - 4. Where flammable gas may leak, where carbon fibre or ignitable dust is suspending in the air, or where volatile flammables such as paint thinner or gasoline are handled.
 - Operating the unit in such conditions may result in fire.
- The air conditioner is not intended for use in a potentially explosive atmosphere.

2. BEFORE INSTALLATION

Do not exert pressure on the resin parts when opening the unit or when moving it after opening Be sure to check the type of R410A refrigerant to be used before doing any work. (Using an incorrect refrigerant will prevent normal operation of the unit.)

- When opening the unit or moving it after opening, be sure to lift it by holding on to the lifting lugs without exerting any pressure on other parts, especially, drain piping, and other resin parts.
- Decide upon a line of transport.
- Leave the unit inside its packaging while moving, until reaching the installation site. Use a sling of soft material, where unpacking is unavoidable or protective plates together with a rope when lifting, to avoid damage or scratches to the unit.
- Especially, do not unfasten packing case (top) guarding the control box until suspending the unit.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Do not dispose of any parts necessary for installation until the installation is complete.

2-1 PRECAUTIONS

- Be sure to read this manual before installing the indoor unit.
- When selecting installation site, refer to the installation pattern.
- This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment. If installed as a household appliance it could cause electromagnetic interference.
- Entrust installation to the place of purchase or a qualified serviceman. Improper installation could lead to leaks and, in worse cases, electric shock of fire.
- Use only parts provided with the unit or parts satisfying required specifications. Unspecified parts could cause the unit to fall out of place, or could lead to leaks and, in worse cases, electric shock or fire.
 Do not install or operate the unit in rooms mentioned below.
- Laden with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may
 deteriorate which could eventually cause the unit to fall out of place, or could lead to leaks.)
- Where corrosive gas like sulfurous gas exists. (Copper tubing and brazed spots may corrode, which could eventually lead to refrigerant leaks.)
- Where volatile flammable gas like thinner or gasoline is used.
- Where exposed to combustible gases and where volatile flammable gas like thinner or gasoline is used. (Gas in the vicinity of the unit could ignite.)
- Where machines can generate electromagnetic waves. (Control system may malfunction.)
- Where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories. Also in vehicles or vessels.

2-2 ACCESSORIES

Check the following accessories are included with your unit.

Name	(1) Installation panel	(2) Attachment screws for the installation panel	(3) Paper pattern for installation	(4) Insulating tape
Quantity	1 set	8 pcs. \rightarrow FXAQ15,20,25,32 type 9 pcs. \rightarrow FXAQ40,50,63 type	1 pc.	1 pc.
Shape				
		M4 × 25L		

Name	(5) Clamp	(6) Securing screws	
Quantity	1 large 3 small	2 pcs.	
Shape		M4 × 12L	(Other) • Operation manual • Installation manual

2-3 OPTIONAL ACCESSORIES

• These are two types of remote controllers: wired and wireless. Select a remote controller according to customer request and install in an appropriate place.

Remote controlle	r type	Model
Wired type		BRC1C517 · *BRC1D52 · *BRC1E51A7
Wireless type	Heat pump type	BRC7E618
	Cooling only type	BRC7E619

* Refer to installation manual attached to the remote controller.

NOTE

• If the customer wishes to use a remote controller that is not listed above, select a suitable remote controller after consulting catalogs and technical materials.

FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED.

a. Items to be checked after completion of work

Items to be checked	If not properly done, what is likely to occur	Check
Are the indoor and outdoor unit fixed firmly?	The units may drop, vibrate or make noise.	
Is the outdoor unit fully installed?	The unit may malfunction or the compo- nents burn out.	
Is the gas leak test finished?	It may result in insufficient cooling.	
Is the unit fully insulated?	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage correspond to that shown on the name plate?	The unit may malfunction or the compo- nents burn out.	
Are wiring and piping correct?	The unit may malfunction or the compo- nents burn out.	
Is the unit safely earthed?	Dangerous at electric leakage.	
Is wiring size according to specifications?	The unit may malfunction or the compo- nents burn out.	
Is something blocking the air outlet or inlet of either the indoor or outdoor units?	It may result in insufficient cooling.	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear.	

b. Items to be checked at time of delivery

Also review the "SAFETY PRECAUTIONS"

Items to be checked	Check
Are the control box cover, air filter, suction grille attached?	
Did you explain about operations while showing the instruction manual to your customer?	
Did you hand the instruction manual over to your customer?	

c. Points for explanation about operations

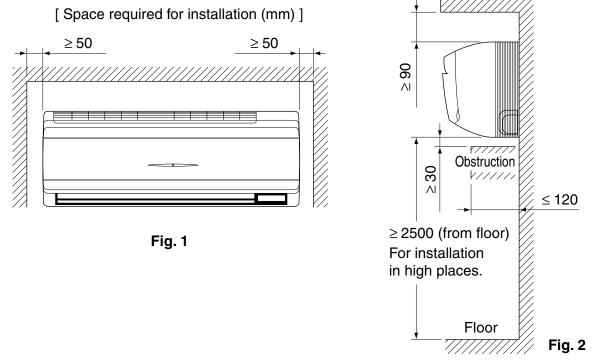
The items with \triangle WARNING and \triangle CAUTION marks in the instruction manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your customers to read the instruction manual.

2-4 NOTE TO THE INSTALLER

Be sure to instruct customers how to properly operate the unit (especially cleaning filters, operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the manual.

3. SELECTING INSTALLATION SITE

- (1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.
 - In the upper space (including the back of the ceiling) of the indoor unit where there is no possible dripping of water from the refrigerant pipe, drain pipe, water pipe, etc.
 - Where the wall is strong enough to bear the indoor unit weight.
 - Where sufficient clearance for installation and maintenance can be ensured.
 - (Refer to Fig. 1 and Fig. 2)
 - Where optimum air distribution can be ensured.
 - Where nothing blocks the air passage.
 - Where condensate can be properly drained.
 - Where the wall is not significantly tilted.
 - Where not exposed to combustible gases.
 - Where pipe between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
 - Install the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)
 - Install the indoor unit no less than 2.5 m above the floor. Where unavoidably lower, take what measures are necessary to keep hands out of the air inlet.
 - Where the cool (warm) air reaches all across the room.



- The indoor and outdoor units and the power supply wiring and remote controller cord must be installed at least 1m away from any televisions or radios. This is to prevent interference with picture and sound reception. (Interference may occur even at 1m away depending on the reception quality.)
- If installing the wireless kit, the distance of the signal sent from the remote controller might be shorter if there are fluorescent lights which are electrically started (such as with inverters, rapid starters, etc.) in the room. The indoor unit should be installed as far away from fluorescent lights as possible.

- (2) Consider whether the place where the unit will be installed can support the full weight of the unit, and reinforce it with boards and beams, etc. if needed before proceeding with the installation. Also, reinforce the place to prevent vibration and noise before installing. (The installation pitch can be found on the paper pattern for installation (3), so refer to it when considering the necessity for reinforcing the location.)
- (3) The indoor unit may not be directly installed on the wall. Use the attached installation panel (1) before installing the unit.

4. INDOOR UNIT INSTALLATION

• Use only accessories and parts which are of the designated specification when installing.

- Install so that the unit does not tilt to either side or forward.
- Do not hold the unit by the horizontal flaps when lifting it. (This may damage the horizontal flaps.)

(1) Open the piping through-hole.

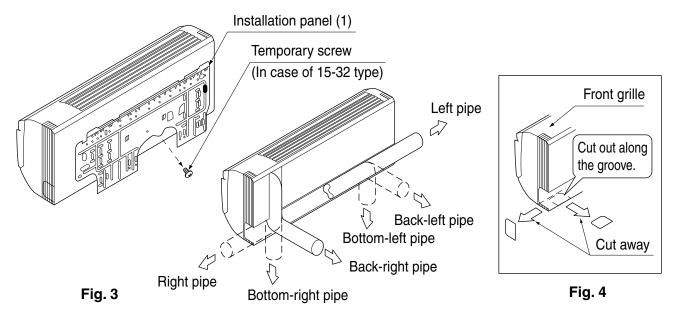
- The refrigerant pipe and drain pipe can be passed out in one of 6 directions: left, bottom-left, back-left, right, bottom-right, and back-right. (Refer to Fig. 3)
- Using the paper pattern for installation (3), choose where to pass the piping out and open a through-hole (ϕ 80) in the wall.

Open the hole so that there is a downward slope for the drain piping. (See "6.DRAIN PIPING WORK")

(2) Remove the installation panel (1) from the unit and attach to the wall.

(The installation panel is temporarily attached to the unit with screw. (In case of 15-32 type)) (Refer to Fig. 3)

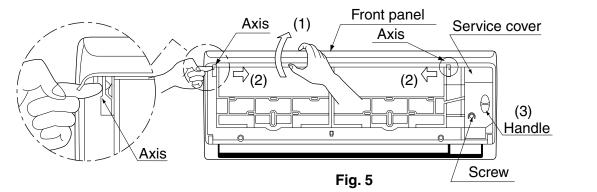
- (a) Check the location for the hole using the included paper pattern for installation (3).
 - Choose a location so that there is at least a 90 mm gap between the ceiling and the main unit.
- (b) Temporarily attach the installation panel (1) at the temporary-securing position on the paper pattern for installation (3) and use a level to make sure the drain hose is either level or tilted slightly downward.
- (c) Secure the installation panel (1) to the wall using either screws or bolts.
 - If using the attachment screws for the installation panel (2), attach using at least 4 screws on either side (for a total of 8 screws (15-32 type), 9 screws (40-63 type)) of the recommended installation cleat position on the included paper pattern for installation (3).
 - If using bolts, attach using a M8 M10 bolt (for a total of 2 bolts) on either side.
 - If dealing with concrete, use commercially available foundation bolts (M8 M10).
- (3) If using the left, bottom-left, right, or bottom-right positions for the piping, cut out the through-hole for the piping in the front grille. (Refer to Fig. 4)



(4) Remove the front panel and the service cover. (Refer to Fig. 5)

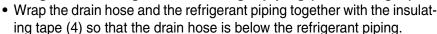
< How to remove the front panel and service cover >

- (1) Open the front panel to the point where it stops.
- (2) Push the axes on either side of the front panel towards the center of the main unit and remove. (You can also remove it by sliding the front panel either to the left or right and pulling it forward.)
- (3) Remove the screw from the service cover and pull the handle forward.



(5) Point the pipe in the direction it will be passed out.

For right, bottom-right, and back-right piping (Refer to Fig. 6)

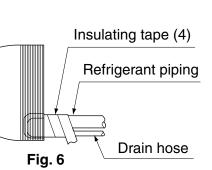


For left, bottom-left, and left-back piping

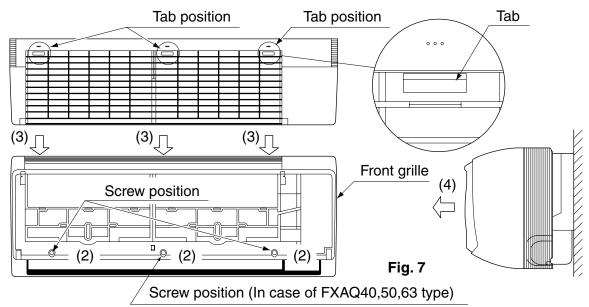
• Remove the front grille. (Refer to Fig. 7)

< How to remove the front grille >

Remove the front grille as described below when securing the indoor unit with screws or when attaching Optional Accessories (wireless remote controller, adapter PC board, etc.).



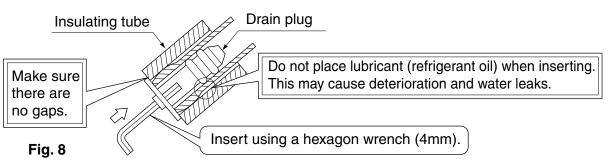
- (1) Remove the front panel.
- (2) Remove the screws (2 places in case of FXAQ15,20,25,32 type/3 places in case of FXAQ40,50,63 type) securing the front grille.
- (3) Remove the tabs (3 places) securing the front grille by pushing them in the direction of the arrows.
- (4) Making sure not to catch the horizontal flaps, remove the front grille by pulling in the direction of the arrow.



- Remove the drain plug, the insulation tubing, and the drain hose from the drain pan and replace. (Refer to Fig. 8)
- Connect the local refrigerant piping ahead of time, matching it to the liquid pipe and gas pipe marks engraved on the installation panel (1).

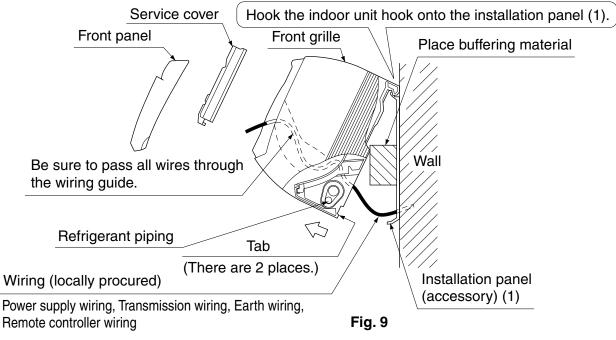
< Replacing the drain hose and drain plug >

- (1) Remove the drain plug and insulation tubing.
- (2) Remove the drain hose and replace onto the left side.
- (3) Replace the drain plug and the insulation tubing onto the right side.



(6) Hook the indoor unit onto the installation panel. (Refer to Fig. 9)

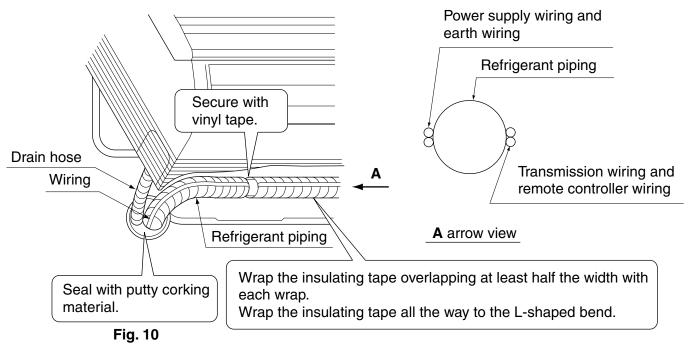
• Placing buffering material between the wall and the indoor unit at this time will make work easier.



For right, bottom-right, and back-right piping

• Pass the drain hose and the refrigerant piping to the wall.

- (7) Pass power supply wiring, transmission wiring, earth wiring, and remote controller wiring through the wiring guide in through the back of the indoor unit and to the front.
- (8) Connect the piping. (See "5.REFRIGERANT PIPING WORK" and Fig. 10)



- To avoid the influence of noise from the power supply line on the transmission wiring and the remote controller wiring, these wirings must be kept as far as possible from the power/earth wirings. As shown in the figure, keep the power supply wiring and the earth wiring together. Keep the transmission and remote controller wirings together and route them maintaining a good distance from the power supply/earth wirings (that is, on the other side of the power supply/earth wirings). Then, fix them securely on the refrigerant pipe.
- Seal the piping through-hole with putty corking material.
- (9) Push on both bottom edges of the indoor unit using both hands and hook the tab on the back of the indoor unit onto the installation panel (1). (Refer to Fig. 9)
 - At this time remove the buffering material placed in step (6).
 - Make sure power supply wiring, transmission wiring, earth wiring and remote controller wiring are not caught inside the indoor unit.
- When screwing in the indoor unit
 - Remove the front grille. (Refer to Fig. 7)
 - Secure the indoor unit to the installation panel (1) with the securing screws (6). (Refer to Fig. 11)

(accessory) (1) Refrigerant piping Insulating tape (accessory) (4)

Installation panel

M4 × 12L (accessory) (6)

Fig. 11

5. REFRIGERANT PIPING WORK

 \langle For refrigerant piping of outdoor units, see the installation manual attached to the outdoor unit. \rangle \langle Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, a water leakage can result sometimes. \rangle

(When using a heat pump, the temperature of the gas piping can reach up to approximately 120°C, so use insulation which is sufficiently resistant.)

 \langle Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 30°C or RH80 %, reinforce the refrigerant insulation. (20 mm or thicker) Condensation may form on the surface of the insulating material. \rangle

(Before refrigerant piping work, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.)

- Use a pipe cutter and flare suitable for the type of refrigerant.
- Apply ester oil or ether oil around the flare section before connecting.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end or cover it with tape.
- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant circuit, such as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.

• Do not mix air or other gas with the specified refrigerant in the refrigeration cycle.

- Ventilate the room if refrigerant gas leaks during the work.
- The outdoor unit is charged with refrigerant.
- Use copper alloy seamless pipes (ISO 1337)
- Be sure to use both a spanner and torque wrench together, as shown in the drawing, when connecting or disconnecting pipes to/from the unit. (Refer to Fig. 12)
- Refer to "Table 1" for the dimensions of flare nut spaces.
- When connecting the flare nut, coat the flare section (both inside and outside) with ester oil or ether oil, rotate three or four times first, then screw in. (Refer to Fig. 13)
- Keep all the screw mounting resin parts (e.g., piping presser plates) away from oil.

If oil adheres, the strength of the screw mounting resin parts may drop.

• Over-tightening may cause the flare nuts to crack or the refrigerant to leak.

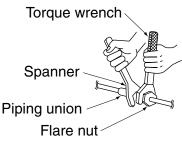
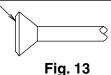


Fig. 12

Apply ester oil or ether oil only inside



NOTE

• Use the flare nut included with the unit main body.

Table 1

Pipe size	Tightening torque (N⋅m)	Flare dimensions A (mm)	Flare
φ 6.4 (1/4")	14.2 – 17.2	8.7 – 9.1	20
φ 9.5 (3/8")	32.7 – 39.9	12.8 – 13.2	• R0.4-0.8
φ 12.7 (1/2")	49.5 - 60.3	16.2 – 16.6	
φ 15.9 (5/8")	61.8 – 75.4	19.3 – 19.7	\searrow

• Refer to Table 1 to determine the proper tightening torque.

Not recommendable but in case of emergency

You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.

After the work is finished, make sure to check that there is no gas leak.

When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases. From that position, further tighten the flare nut the angle shown below:

Та	bl	e	2

Pipe size	Further tightening angle	Recommended arm length of tool
φ 6.4 (1/4")	60 - 90 degrees	Approx. 150mm
φ 9.5 (3/8")	60 - 90 degrees	Approx. 200mm
φ12.7 (1/2")	30 - 60 degrees	Approx. 250mm
φ15.9 (5/8")	30 - 60 degrees	Approx. 300mm

After the work is finished, make sure to check that there is no gas leak.

CAUTION TO BE TAKEN WHEN BRAZING REFRIGERANT PIPING

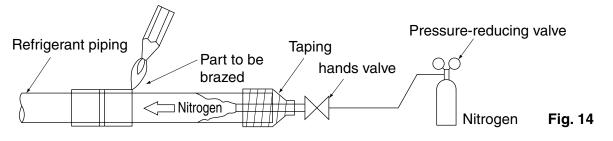
"Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filler metal (BCuP-2: JIS Z 3264/B-Cu93P-710/795: ISO 3677) which does not require flux."

(Flux has extremely harmful influence on refrigerant piping systems. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.)

• Before brazing local refrigerant piping, nitrogen gas shall be blown through the piping to expel air from the piping.

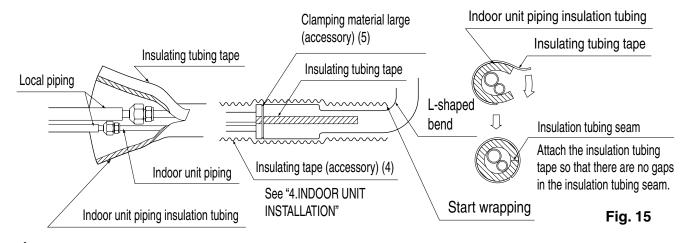
If your brazing is done without nitrogen gas blowing, a large amount of oxide film develops inside the piping, and could cause system malfunction.

- When brazing the refrigerant piping, only begin brazing after having carried out nitrogen substitution or while inserting nitrogen into the refrigerant piping. Once this is done, connect the indoor unit with a flared or a flanged connection.
- Nitrogen should be set to 0.02 MPa with a pressure-reducing valve if brazing while inserting nitrogen into the piping. (Refer to Fig.14)



Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

• After checking for gas leaks, be sure to insulate the pipe connections using the supplementary piping insulation tubing and insulating tape (4). The insulating tape (4) should be wrapped from the L-shaped bend all the way to the end inside the unit. (Refer to Fig. 15)

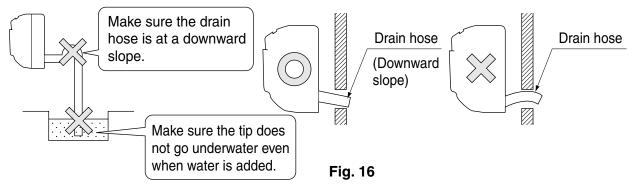


Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

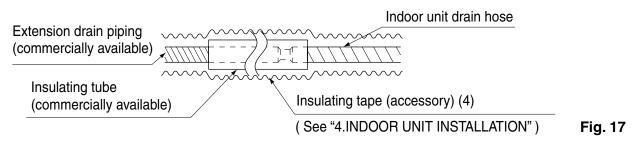
6. DRAIN PIPING WORK

(1) Install the drain piping. (Refer to Fig. 16)

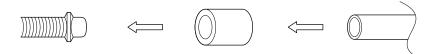
- The drain pipe should be short with a downward slope and should prevent air pockets from forming.
- Watch out for the points in the Fig. 16 when performing drain work.



• When extending the drain hose, use a commercially available drain extension hose, and be sure to insulate the extended section of the drain hose which is indoors. (Refer to Fig. 17)



- Make sure the diameter of the piping is the same as the piping (hard vinyl chloride, nominal diameter 13mm) or bigger.
- When directly connecting a hard vinyl chloride pipe joint (nominal diameter 13mm) to the drain hose connected to the indoor unit (i.e. for embedded piping, etc.), use a commercially available hard vinyl chloride pipe joint (nominal diameter 13mm). (Refer to Fig. 18)



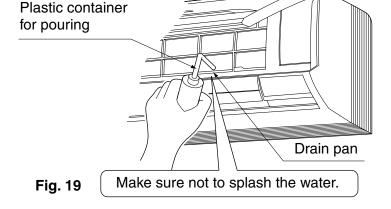
Drain hose connected to the indoor unit

Commercially available hard vinyl chloride pipe joint (nominal diameter 13mm) Commercially available hard vinyl chloride pipe (nominal diameter 13mm)

Fig. 18

(2) Make sure the drain works properly.

 After drain work is complete, perform a drain check by opening the front panel, removing the air filter, pouring water into the drain pan, and making sure water flows smoothly out of the drain hose. (Refer to Fig. 19)



- \land caution -

Drain piping connections

Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

• Keep in mind that it will become the cause of getting drain pipe blocked if water collects on drain pipe.

7. ELECTRIC WIRING WORK

7-1 GENERAL INSTRUCTIONS

- All field supplied parts and materials and electric works must conform to local codes.
- Use copper wire only.
- For electric wiring work, refer to also "WIRING DIAGRAM" attached to the unit body.
- For remote controller wiring details, refer to the installation manual attached to the remote controller.
- All wiring must be performed by an authorized electrician.
- This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B..., and be sure the terminal board wiring to the outdoor unit and BS unit are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.
- A circuit breaker capable of shutting down power supply to the entire system must be installed.
- Refer to the installation manual attached to the outdoor unit for the size of power supply wiring connected to the outdoor unit, the capacity of the circuit breaker and switch, and wiring instructions.
- Be sure to earth the air conditioner.
- Do not connect the earth wire to gas pipes, water pipes, lightning rods, or telephone earth wires.
 - Gas pipes: might cause explosions or fire if gas leaks.
 - Water pipes: no earthing effect if hard vinyl piping is used.
 - Telephone earth wires or lightning rods: might cause abnormally high electric potential in the earth during lighting storms.

7-2 ELECTRICAL CHARACTERISTICS

Units				Units Power supply		Fan motor					
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA				
FXAQ15PAV1				0.3	16	0.040	0.2				
FXAQ20PAV1				0.3	16	0.040	0.2				
FXAQ25PAV1		50 220 - 240	Max 064	0.4	16	0.040	0.3				
FXAQ32PAV1	50		220 - 240	220 - 240	220 - 240	220 - 240	Max. 264 Min. 198	0.4	16	0.040	0.3
FXAQ40PAV1				0.4	16	0.043	0.3				
FXAQ50PAV1				0.5	16	0.043	0.4				
FXAQ63PAV1				0.6	16	0.043	0.5				

MCA: Min. Circuit Amps (A); kW: Fan Motor Rated Output (kW); MFA: Max. Fuse Amps (A) FLA: Full Load Amps (A)

7-3 SPECIFICATIONS FOR FIELD SUPPLIED FUSES AND WIRE

Madal	Power supply wiring			Remote controller wiring Transmission wiring	
Model	Field fuses	Wire	Size	Wire	Size
FXAQ15PAV1					
FXAQ20PAV1		H05VV - U3G	Wire size and length must comply with local codes.	Vinyl cord with sheath or cable (2 wire)	0.75 - 1.25 mm²
FXAQ25PAV1					
FXAQ32PAV1	16A				
FXAQ40PAV1					
FXAQ50PAV1]				
FXAQ63PAV1					

Allowable length of transmission wirings and remote controller wiring are as follows.

(1) Outdoor unit - Indoor unit:(2) Indoor unit - Remote controller:

Max. 1000m (Max. wiring length: 2000m) Max. 500m

NOTE 🗐

- 1. Shows only in case of protected pipes. Use H07RN-F in case of no protection.
- 2. Vinyl cord with sheath or cable (Insulated thickness : 1mm or more)

- \land Caution \cdot

- Arrange the wires and fix a cover firmly so that the cover does not float during wiring work.
- Do not clamp remote controller wiring and transmission wiring together with power supply wiring. Doing so may cause malfunction.
- Remote controller wiring and transmission wiring should be located at least 50 mm from power supply wiring. Not following this guideline may result in malfunction due to electrical noise.

8. HOW TO CONNECT WIRINGS AND WIRING EXAMPLE

8-1 HOW TO CONNECT WIRINGS

Methods of wiring power supply, units and connecting remote controller wiring

 Power supply wiring and earth wire Unscrew and remove the service cover. Connect the power supply wiring and earth wiring to the power supply terminal block (3P). When doing this, tie the power supply wiring and the earth wiring using the included clamp (small) (5) and then firmly secure using the included clamp (small) (5) according to the figure. (Refer to Fig. 21)

 Transmission wiring and remote controller wiring Unscrew and remove the service cover.
 Connect the remote controller wiring and the transmission wiring to the terminal block (6P).

When doing this, tie the remote controller wiring and the transmission wiring using the included clamp (small) (5) and then firmly secure using the included clamp (small) (5) according to the figure. **(Refer to Fig. 21)**

• Be sure to attach it to prevent the infiltration of water as well as any insects and other small creatures from the outside. Otherwise a short-circuit may occur inside the control box.

[PRECAUTIONS]

Observe the notes mentioned below when wiring to the power supply terminal block and terminal block for remote controller.

Tightening torque for the terminal blocks

- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, screws might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

	Size	Tightening torque (N·m)
Terminal block for remote controller (6P)	M3.5	0.79 - 0.97
Power supply and Earth terminal block (3P)	M4	1.18 - 1.44

When none are available, follow the instructions below.

Do not connect wires of different gauge to the same earth terminal.

Connect wires of the same gauge to both side.



Do not connect wires of the same gauge to one side. Do not connect wires of different gauges.



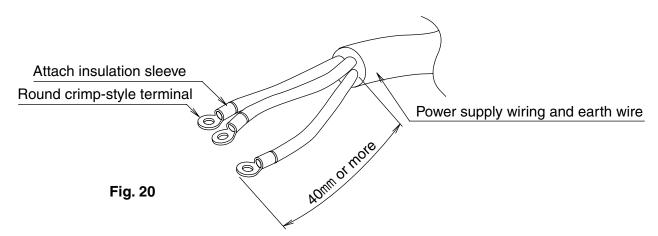


Looseness in the connection may deteriorate protection.

Precautions to be taken for power supply wiring

Use a round crimp-style terminal for connection to the power supply terminal block. In case it cannot be used due to unavoidable reasons, be sure to observe the following instructions.

Be sure to peel off the sheath of power supply wiring more than 40 mm. (Refer to Fig. 20)



- For remote controller wiring, refer to the "INSTALLATION MANUAL OF REMOTE CONTROLLER." attached to the remote controller.
- Never connect power supply wiring to the terminal block for remote controller. A mistake of the sort could damage the entire system.
- Use only specified wire and tightly connect wires to terminals. Be careful wires do not place external stress on terminals. Keep wiring in neat order and so as not to obstruct other equipment such as popping open the control box cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.

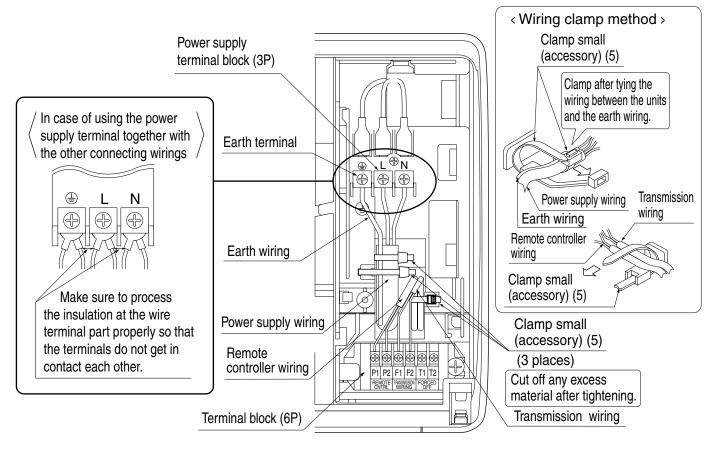


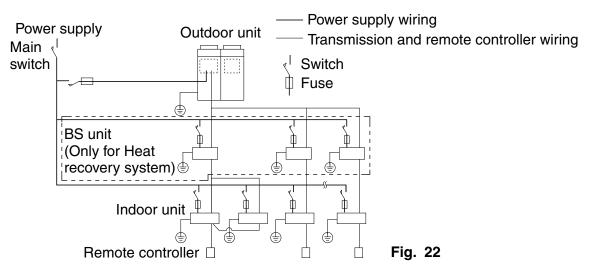
Fig. 21

- Be sure to attach the sealing material and putty (field supplied) to hole of wiring to prevent the infiltration of water as well as any insects and other small creatures from outside. Otherwise a short-circuit may occur inside the control box.
- When clamping the wirings, be sure no pressure is applied to the wire connections by using the included clamp to make appropriate clamps. Also, when wiring, make sure the cover on the control box fits snugly by arranging the wirings neatly and attaching the service cover firmly. When attaching the service cover, make sure no wirings get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, and transmission wire the wiring between the units, and other electrical wiring do not pass through the same locations outside the machine, separating them by at least 50mm, otherwise electrical noise (external static) could cause mistaken operation or breakage.
- Use only specified wire and tightly connect wires to terminals. Be careful wires do not place external stress on terminals. Keep wiring in neat order and so as not to obstruct other equipment such as popping open the service cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.

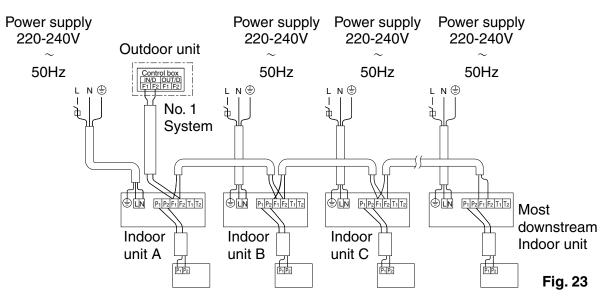
8-2 WIRING EXAMPLE

• Fit the power supply wiring of each unit with a switch and fuse as shown in the drawing.

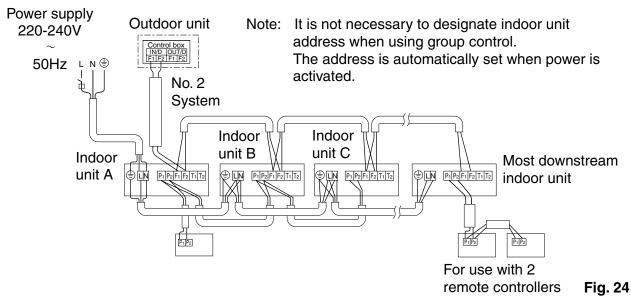
COMPLETE SYSTEM EXAMPLE (3 systems)



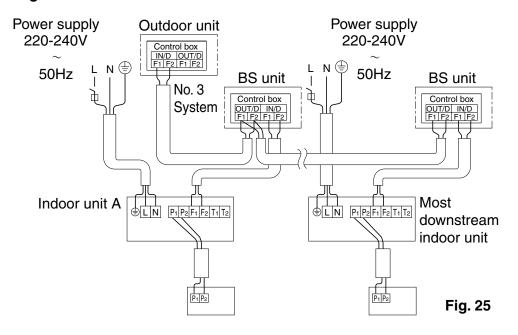
1. When using 1 remote controller for 1 indoor unit. (Normal operation)



2. For group control or use with 2 remote controllers



3. When including BS unit



[PRECAUTIONS]

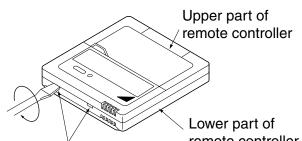
- **1.** All transmission wiring except for the remote controller wires is polarized and must match the terminal symbol.
- 2. A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.
- **3.** Do not earth the equipment on gas pipes, water pipes or lightning rods, or cross earth with telephones. Improper earthing could result in electric shock.

8-3 CONTROL BY 2 REMOTE CONTROLLERS (CONTROLLING 1 INDOOR UNIT BY 2 REMOTE CONTROLLERS)

• When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

MAIN/SUB CHANGEOVER

(1) Insert a ⊖ screwdriver into the recess between the upper and lower part of remote controller and, working from the 2 positions, pry off the upper part. The remote controller PC board is attached to the upper part of the remote controller. (Refer to Fig. 26)



remote controller

Insert the screwdriver here and gently work off the upper part of the remote controller.

Fig. 26

- (2) Turn the main/sub changeover switch on one of the two remote controller PC boards to "S".
 (Leave the switch of the other remote controller set to "M".) (Refer to Fig. 27)
- Wiring Method (See "7.ELECTRIC WIRING WORK")
- (3) Remove the service cover.
- (4) Add remote control 2 (slave) to the terminal block
 (6P) for remote controller (P₁, P₂) in the control box.
 (There is no polarity.) (Refer to Fig. 24 and section 7-3 for the wiring size.)

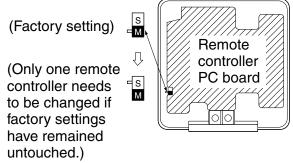


Fig. 27

8-4 COMPUTERISED CONTROL (FORCED OFF AND ON/OFF OPERATION)

(1) Wire specifications and how to perform wiring

• Connect the input from outside to terminals T1 and T2 of the terminal block (6P) for remote controller.

			г ^о	0		
					Ir	nput A
$\left\langle \right\rangle$	F2	Т		Т		
$\left(\right)$		F O	OR FF	CE	D	Þ
Fig. 28						

Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75 - 1.25 mm ²
Length	Max. 100 m
External terminal	Contact that can ensure the minimum applicable load of 15V DC, 1 mA.

(2) Actuation

• The following table explains FORCED OFF and ON/OFF OPERATIONS in response to Input A.

FORCED OFF	ON/OFF OPERATION
Input "ON" stops operation (impossible by remote controllers).	Input OFF \rightarrow ON turns ON unit.
Input OFF enables control by remote controller.	Input ON \rightarrow OFF turns OFF unit.

(3) How to select FORCED OFF and ON/OFF OPERATION

• Turn the power on and then use the remote controller to select operation.

8-5 CENTRALIZED CONTROL

• For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controllers for centralized control.

9. FIELD SETTINGS

When performing field setting or test run without attaching the decoration panel, do not touch the drain pump. This may cause electric shock.

(1) Make sure the service covers are closed on the indoor and outdoor units.

(2) Field settings must be made from the remote controller and in accordance with installation conditions.

Settings can be made by changing the "Mode No", "FIRST CODE NO." and "SECOND CODE NO.".

The "Field Settings" included with the remote control lists the order of the settings and method of operation.
 *Setting is made in all units in a group. To set for individual indoor units or to check the setting, use the mode Nos. (with "2" in upper digit) in parentheses ().

9-1 SETTING AIR FILTER SIGN

- Remote controllers are equipped with liquid crystal display air filter sighs to display the time to clean air filters.
- Change the SECOND CODE NO. according to Table 3 depending on the amount of dirt or dust in the room. (SECOND CODE NO. is factory set to "01" for air filter contamination-light)

Та	bl	e	3
	~	-	-

Setting	Spacing time of display air filter sign	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Air filter contamination-light	Approx. 200 hrs	10 (20)	0	01
Air filter contamination-heavy	Approx. 100 hrs	10 (20)	0	02

9-2 SETTING AIR FLOWRATE INCREASE MODE

• It is possible to raise set airflow (HIGH and LOW) from the field. Change the SECOND CODE NO. as shown in Table 4 to suit your needs.

(SECOND CODE NO. is factory set to "01" for Standard.)

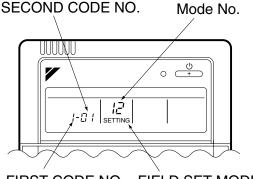
Table 4

Setting	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Standard			01
A little increase	13 (23)	0	02
Increase			03

(When using wireless remote controllers)

- When using wireless remote controllers, wireless remote controller address setting is necessary. Refer to the installation manual attached to the wireless remote controller for setting instructions.
 - Set the remote controller to the field set mode. For details, refer to the "HOW TO SET IN THE FIELD", in the remote controller manual.
 - When in the field set mode, select mode No. 12, then set the first code (switch) No. to "1". Then set second code (position) No. to "01" for FORCED OFF and "02" for ON/ OFF OPERATION.

(FORCED OFF at factory set) (Refer to Fig. 29)



FIRST CODE NO. FIELD SET MODE

Fig. 29

10. TEST RUN

Make sure the service covers are closed on the indoor and outdoor units.

Refer to the installation manual of the outdoor unit.

• The operation lamp of the remote controller will flash when an malfunction occurs. Check the malfunction code on the liquid crystal display to identify the point of trouble. An explanation of malfunction codes and the corresponding trouble is provided in the installation manual of the outdoor unit or the service manual. If any of the items in Table 5 are displayed, there may be a problem with the wiring or power, so check the wiring again.

Та	b	le	5
		-	_

Remote controller display	Content
" 🔼 " is lit up	• There is a short circuit at the FORCED OFF terminals (T1, T2).
"U4" is lit up "UH" is lit up	 The power on the outdoor unit is off. The outdoor unit has not been wired for power supply. Incorrect wiring for the transmission wiring and/or FORCED OFF wiring. The branch wiring is cut.
No display	 The power on the indoor unit is off. The indoor unit has not been wired for power supply. Incorrect wiring for the remote controller wiring, the transmission wiring, and/or the FORCED OFF wiring. The remote controller wiring is cut.

 In order to protect the indoor unit, instruct the customer not to operate the air conditioner until the interior work is completed if the interior work has not been finished at the end of the test run.

(If the air conditioner is operated, substances discharged from the paint, adhesive, etc. can contaminate the indoor unit, and they may cause splashing or leakage of water.)

NOTE

• After the test run is finished, check the items listed in "b. Items to be checked at time of delivery".

3P156215-16W EM11A084 (1203) 田