HITACHI

INSTALLATION & OPERATION MANUAL

INDOOR UNITS SYSTEM FREE
Celling Type

MODELS
RPC-(1.5-6.0)FSR

EN INSTALLATION AND OPERATION MANUAL
ES MANUAL DE INSTALACIÓN Y FUNCIONAMIENTO
DE INSTALLATIONS- UND BETRIEBSHANDBUCH
FR MANUEL D'INSTALLATION ET DE FONCTIONNEMENT
IT MANUALE D'INSTALLAZIONE E D'USOI
PT MANUAL DE INSTALAÇÃO E DE FUNCIONAMENTO
DA INSTALLATIONS- OG BETJENINGSVEJLEDNING
NL INSTALLATIE- EN BEDIENINGSHANDLEIDING
SV INSTALLATION- OCH DRIFTHANDBOK
EL ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ ΚΑΙ ΛΕΙΤΟΥΡΓΙΑΣ
BG РЪКОВОДСТВО ЗА ИНСТАЛИРАНЕ И ЕКСПЛОАТАЦИЯ
CS NÁVOD K MONTÁŽI A OBSLUZE
ET PAIGALDUS- JA KASUTUSJUHEND
HU TELEPÍTÉSI ÉS ÜZEMELTETÉSI ÚTMUTATÓ
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PL INSTRUKCJA MONTAŻU I OBSŁUGI
RO MANUAL DE INSTALARE SI OPERARE
RU ИНСТРУКЦИЯ ПО МОНТАЖУ И ЭКСПЛУАТАЦИИ

Cooling & Heating

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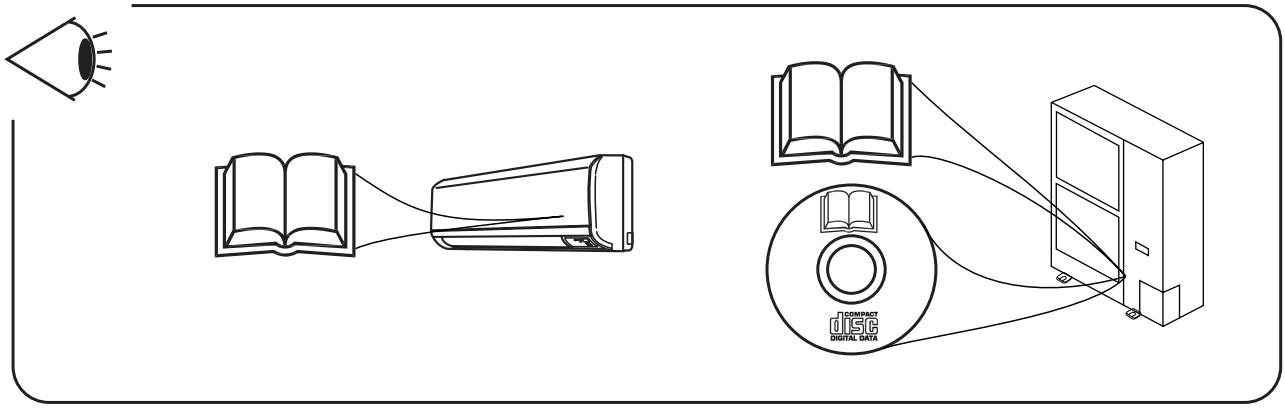


English

Specifications in this manual are subject to change without notice in order that Hitachi may bring the latest innovations to their customers.Whilst every effort is made to ensure that all specifications are correct, printing errors are beyond Hitachi's control; Hitachi cannot be held responsible for these errors.

Español

Las especificaciones de este manual están sujetas a cambios sin previo aviso a fin de que Hitachi pueda ofrecer las últimas innovaciones a sus clientes.
A pesar de que se hacen todos los esfuerzos posibles para asegurarse de que las especificaciones sean correctas, los errores de impresión están fuera del control de Hitachi, a quien no se hará responsable de ellos.

Deutsch

Bei den technischen Angaben in diesem Handbuch sind Änderungen vorbehalten, damit Hitachi seinen Kunden die jeweils neuesten Innovationen präsentieren kann.
Sämtliche Anstrengungen wurden unternommen, um sicherzustellen, dass alle technischen Informationen ohne Fehler veröffentlicht worden sind. Für Druckfehler kann Hitachi jedoch keine Verantwortung übernehmen, da sie außerhalb ihrer Kontrolle liegen.

Français

Les caractéristiques publiées dans ce manuel peuvent être modifiées sans préavis, Hitachi souhaitant pouvoir toujours offrir à ses clients les dernières innovations.
Bien que tous les efforts sont faits pour assurer l'exactitude des caractéristiques, les erreurs d'impression sont hors du contrôle de Hitachi qui ne pourrait en être tenu responsable.

Italiano

Le specifiche di questo manuale sono soggette a modifica senza preavviso affinché Hitachi possa offrire ai propri clienti le ultime novità.
Sebbene sia stata posta la massima cura nel garantire la correttezza dei dati, Hitachi non è responsabile per eventuali errori di stampa che esulano dal proprio controllo.

Português

As especificações apresentadas neste manual estão sujeitas a alterações sem aviso prévio, de modo a que a Hitachi possa oferecer aos seus clientes, da forma mais expedita possível, as inovações mais recentes. Apesar de serem feitos todos os esforços para assegurar que todas as especificações apresentadas são correctas, quaisquer erros de impressão estão fora do controlo da Hitachi, que não pode ser responsabilizada por estes erros eventuais.

Dansk

Specifikationerne i denne vejledning kan ændres uden varsel, for at Hitachi kan bringe de nyeste innovationer ud til kunderne. På trods af alle anstrengelser for at sikre at alle specifikationerne er korrekte, har Hitachi ikke kontrol over trykfejl, og Hitachi kan ikke holdes ansvarlig herfor.

Nederlands

De specificaties in deze handleiding kunnen worden gewijzigd zonder verdere kennisgeving zodat Hitachi zijn klanten kan voorzien van de nieuwste innovaties.
Iedere poging wordt ondernomen om te zorgen dat alle specificaties juist zijn. Voorkomende drukfouten kunnen echter niet door Hitachi worden gecontroleerd, waardoor Hitachi niet aansprakelijk kan worden gesteld voor deze fouten.

Svenska

Specifikationerna i den här handboken kan ändras utan föregående meddelande för att Hitachi ska kunna leverera de senaste innovationerna till kunderna.
Vi på Hitachi gör allt vi kan för att se till att alla specifikationer stämmer, men vi har ingen kontroll över tryckfel och kan därför inte hållas ansvariga för den typen av fel.

Ελλhnika

Οι προδιαγραφές του εγχειριδίου μπορούν να αλλάξουν χωρίς προειδοποίηση, προκειμένου η Hitachi να παρέχει τις τελευταίες καινοτομίες στους πελάτες της.
Αν και έχει γίνει κάθε προσπάθεια προκειμένου να εξασφαλιστεί ότι οι προδιαγραφές είναι σωστές, η Hitachi δεν μπορεί να ελέγξει τα τυπογραφικά λάθη και, ως εκ τούτου, δεν φέρει καμία ευθύνη για αυτά τα λάθη.

Български

Спецификациите в това ръководство подлежат на изменения без известяване, така че Hitachi да може да предоставя на своите клиенти последните иновации.
Полагат се всички усилия, за да се гарантира, че всички спецификации са коректни, но печатните грешки са извън обсега на контрола на Hitachi и Hitachi не може да носи отговорност за тези грешки.

Čeština

Aby společnost Hitachi mohla svým zákazníkům poskytovat nejnovější inovace, specifikace uvedené v této příručce podléhají změnám bez předchozího upozornění.
Přestože vynakládáme maximální úsilí, aby všechny specifikace byly správné, tiskové chyby nespadají pod kontrolu společnosti Hitachi, která za takové chyby nenese odpovědnost.

Eesti

Käesoleva juhendi tehnilised kirjeldused võivad muutuda ilma ette teatamiseta, selleks et Hitachi saaks tuua oma klientideni kõige uuemad innovatsioonid.
Kuigi püütakse tagada, et kõik tehnilised kirjeldused oleksid õiged, on trükivead väljaspool Hitachi kontrolli; Hitachi ei vastuta nende vigade eest.

Magyar

Az alábbi kézikönyvben foglalt előírások előzetes értesítés nélkül változhatnak, annak érdekében, hogy a Hitachi a legfrissebb újításokkal szolgálhasson ügyfelei számára.
Bár minden erőfeszítést megteszünk annak érdekében, hogy minden előírás helyes legyen, a nyomtatási hibák nem állnak a Hitachi ellenőrzése alatt; ezekért a hibákért a Hitachi nem tehető felelőssé.

Latviešu

Šīs rokasgrāmatas specifikācijas var mainīties bez brīdinājuma, lai Hitachi varētu saviem klientiem piedāvāt jaunākās inovācijas.
Lai gan tiek pieliktas visas pūles, nodrošinot, ka visas specifikācijas ir pareizas, drukāšanas kļūdas ir ārpus Hitachi kontroles; Hitachi nevar būt atbildīga par šīm kļūdām.

Lietuvių

Šio vadovo specifikacijos gali būti keičiamos be įspėjimo, kad „Hitachi“ galėtų pateikti savo klientams paskutines naujoves.
Nors dedamos visos pastangos siekiant užtikrinti, kad visos specifikacijos būtų teisingos, „Hitachi“ nekontroliuoja spausdinimo klaidų; „Hitachi“ negali būti laikoma atsakinga už tokias klaidas.

Polski

Zamieszczone w niniejszej instrukcji obsługi dane techniczne mogą ulec zmianie bez uprzedniego powiadomienia ze względu na innowacyjne rozwiązania, jakie firma Hitachi nieustannie wprowadza z myślą o swoich klientach.
Mimo podejmowanych starań, aby zapewnić poprawność wszystkich podanych tutaj informacji, nie można wykluczyć zaistnienia błędów drukarskich, za które firma Hitachi nie ponosi żadnej odpowiedzialności.

Română

Specificațiile din acest manual pot fi modificate fără notificare prealabilă, pentru ca Hitachi să poată pune la dispoziția clienților noștri ultimele inovații.
Deși depunem toate eforturile pentru a ne asigura că toate specificațiile sunt corecte, erorile de tipărire depășesc controlul Hitachi; Hitachi nu poate fi tras la răspundere pentru aceste erori.

Русский

Технические характеристики, содержащиеся в данном руководстве, могут быть изменены Hitachi без предварительного уведомления, по причине постоянного внедрения последних инноваций.
Несмотря на то, что мы принимаем все возможные меры для актуализации технических данных, при публикации возможны ошибки, которые Hitachi не может контролировать, и за которые не несет ответственности.

⚠ ATTENTION

This product shall not be mixed with general house waste at the end of its life and it shall be retired according to the appropriated local or national regulations in a environmentally correct way.
Due to the refrigerant, oil and other components contained in Air Conditioner, its dismantling must be done by a professional installer according to the applicable regulations.
Contact to the corresponding authorities for more information.

⚠ ATENCIÓN

Éste producto no se debe eliminar con la basura doméstica al final de su vida útil y se debe desechar de manera respetuosa con el medio ambiente de acuerdo con los reglamentos locales o nacionales aplicables.
Debido al refrigerante, el aceite y otros componentes contenidos en el sistema de aire acondicionado, su desmontaje debe realizarlo un instalador profesional de acuerdo con la normativa aplicable.
Para obtener más información, póngase en contacto con las autoridades competentes.

⚠ ACHTUNG

Dass Ihr Produkt am Ende seiner Betriebsdauer nicht in den allgemeinen Hausmüll geworfen werden darf, sondern entsprechend den geltenden örtlichen und nationalen Bestimmungen auf umweltfreundliche Weise entsorgt werden muss.
Aufgrund des Kältemittels, des Öls und anderer in der Klimaanlage enthaltener Komponenten muss die Demontage von einem Fachmann entsprechend den geltenden Vorschriften durchgeführt werden.
Für weitere Informationen setzen Sie sich bitte mit den entsprechenden Behörden in Verbindung.

⚠ ADVERTISSEMENT

Ne doit pas être mélangé aux ordures ménagères ordinaires à la fin de sa vie utile et qu'il doit être éliminé conformément à la réglementation locale ou nationale, dans le plus strict respect de l'environnement.
En raison du frigorigène, de l'huile et des autres composants que le climatiseur contient, son démontage doit être réalisé par un installateur professionnel conformément aux réglementations en vigueur.

⚠ AVVERTENZE

Indicazioni per il corretto smaltimento del prodotto ai sensi della Direttiva Europea 2011/65/EU e D.Lgs 4 marzo 2014 n.27
Il simbolo del cassonetto barrato riportato sull' apparecchiatura indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.
L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita agli idonei centri di raccolta differenziata dei rifiuti elettronici ed elettrotecnici, oppure riconsegnarla al rivenditore al momento dell' acquisto di una nuova apparecchiatura di tipo equivalente.
L'adeguata raccolta differenziata delle apparecchiature dismesse, per il loro avvio al riciclaggio, al trattamento ed allo smaltimento ambientalmente compatibile, contribuisce ad evitare possibili effetti negativi sull' ambiente e sulla salute e favorisce il riciclo dei materiali di cui è composta l' apparecchiatura.
Non tentate di smontare il sistema o l'unità da soli poichè ciò potrebbe causare effetti dannosi sulla vostra salute o sull' ambiente.
Vogliate contattare l' installatore, il rivenditore, o le autorità locali per ulteriori informazioni.
Lo smaltimento abusivo del prodotto da parte dell'utente può comportare l'applicazione delle sanzioni amministrative di cui all'articolo 50 e seguenti del D.Lgs. n. 22/1997.

⚠ CUIDADO

O seu produto não deve ser misturado com os desperdícios domésticos de carácter geral no final da sua duração e que deve ser eliminado de acordo com os regulamentos locais ou nacionais adequados de uma forma correcta para o meio ambiente.
Devido ao refrigerante, ao óleo e a outros componentes contidos no Ar condicionado, a desmontagem deve ser realizada por um instalador profissional de acordo com os regulamentos aplicáveis.
Contacte as autoridades correspondentes para obter mais informações.

⚠ ADVASEL!

At produktet ikke må smides ud sammen med almindeligt husholdningsaffald, men skal bortskaffes i overensstemmelse med de gældende lokale eller nationale regler på en miljømæssig korrekt måde.
Da klimaanlægget indeholder kølemiddel, olie samt andre komponenter, skal afmontering foretages af en fagmand i overensstemmelse med de gældende bestemmelser.
Kontakt de pågældende myndigheder for at få yderligere oplysninger.

⚠ VOORZICHTIG

Dit houdt in dat uw product niet wordt gemengd met gewoon huisvuil wanneer u het weg doet en dat het wordt gescheiden op een milieuvriendelijke manier volgens de geldige plaatselijke en landelijke reguleringen.
Vanwege het koelmiddel, de olie en andere onderdelen in de airconditioner moet het apparaat volgens de geldige regulering door een professionele installateur uit elkaar gehaald worden.
Neem contact op met de betreffende overheidsdienst voor meer informatie.

⚠ FÖRSIKTIGHET

Det innebär att produkten inte ska slängas tillsammans med vanligt hushållsavfall utan kasseras på ett miljövänligt sätt i enlighet med gällande lokal eller nationell lagstiftning.
Luftkonditioneringsaggregatet innehåller kylmedium, olja och andra komponenter, vilket gör att det måste demonteras av en fackman i enlighet med tillämpliga regelverk.
Ta kontakt med ansvarig myndighet om du vill ha mer information.

⚠ ΠΡΟΣΟΧΗ

Σημαίνει ότι το προϊόν δεν θα πρέπει να αναμιχθεί με τα διάφορα οικιακά απορρίμματα στο τέλος του κύκλου ζωής του και θα πρέπει να αποσυρθεί σύμφωνα με τους κατάλληλους τοπικούς ή εθνικούς κανονισμούς και με τρόπο φιλικό προς το περιβάλλον.
Λόγω του ψυκτικού, του λαδιού και άλλων στοιχείων που περιέχονται στο κλιματιστικό, η αποσυναρμολόγησή του πρέπει να γίνει από επαγγελματία τεχνικό και σύμφωνα με τους ισχύοντες κανονισμούς.
Για περισσότερες λεπτομέρειες, επικοινωνήστε με τις αντίστοιχες αρχές.

⚠ ВНИМАНИЕ

В края на своя технологичен живот този продукт не бива да се изхвърля заедно с общите битови отпадъци и трябва да се третира съгласно приетите местни или национални подзаконови нормативни актове по правилен от гледна точка на опазване на околната среда начин.
Поради охладителя, маслото и останалите компоненти, съдържащи се в климатика, разглобяването му задължително се извършва от професионален техник съгласно приложимите подзаконови нормативни актове. За повече информация се свържете със съответните органи.

⚠ POZOR

Tento výrobek nesmí být na konci své životnosti likvidován v rámci běžného komunálního odpadu, nýbrž ekologickým způsobem v souladu s příslušnými místními nebo vnitrostátními předpisy.
Vzhledem k chladivu, oleji a dalším komponentům obsaženým v klimatizačním zařízení musí jeho demontáž provádět odborný instalatér v souladu s platnými předpisy. Více informací lze získat od příslušných orgánů.

⚠ HOIATUS

Seda toodet ei tohi kasutusea lõpus ära visata üldiste olmejäätmete hulka ja see tuleb kõrvaldada kooskõlas asjaomaste kohalike või riiklike eeskirjadega vastavalt keskkonnanõuetele.
Kuna õhukonditsioneer sisaldab jahutusvedelikku, õli ja muid komponente, tohib seda lahti võtta ainult paigaldusspetsialist vastavuses kohaldatavate eeskirjadega. Lisateabe saamiseks võtta ühendust vastavate ametiasutustega.

⚠ FIGYELMEZTETÉS

Élettartama végén a termék az általános háztartási hulladékkal nem keverendő; ártalmatlanítását a vonatkozó helyi vagy nemzeti előírásoknak megfelelően, környezetvédelmi szempontból helyesen kell végezni.
A légkondicionálóban található hűtőfolyadék, olaj vés egyéb anyagok miatt ennek szétszerelését a vonatkozó előírásoknak megfelelően, szakembernek kell végeznie. További információért forduljon az illetékes hatósághoz.

⚠ UZMANĪBA

Pēc produkta lietošanas beigām to nedrīkst jaukt ar vispārējiem mājsaimniecības atkritumiem, un saskaņā ar attiecīgajiem vietējiem vai nacionālajiem noteikumiem tas jālikvidē videi draudzīgā veidā.
Sakarā ar dzesējošo vielu, eļļu un citām sastāvdaļām, kas atrodas gaisa kondicionētājā, tā demontāža, saskaņā ar piemērojamiem noteikumiem, jāveic profesionālam uzstādītājam. Sazinieties ar attiecīgajām iestādēm, lai saņemtu plašāku informāciju.

⚠ ĮSPĖJIMAS

Pasibaigus eksploatacijos laikui, šis produktas neturi būti maišomas su buitinėmis atliekomis ir turi būti išmetamas laikantis aplinkosaugos požiūriu tinkamų vietinių ar nacionalinių reglamentų.
Dėl aušinimo medžiagos, alyvos ir kitų komponentų, esančių oro kondicionieriuje, jo išmontavimą turi atlikti profesionalus montuotojas pagal galiojančias taisykles. Norėdami gauti daugiau informacijos, susisiekite su atitinkamomis institucijomis.

⚠ OSTROŻNIE

Po zakończeniu okresu użytkowania produktu, nie należy go wyrzucać z odpadami komunalnymi, lecz dokonać jego usunięcia w sposób ekologiczny zgodnie z obowiązującymi w tym zakresie przepisami prawa lokalnego lub krajowego.
Ponieważ klimatyzatory zawierają czynniki chłodnicze i oleje oraz innego rodzaju elementy składowe, ich demontaż należy powierzyć wskazanemu w obowiązujących przepisach specjalistycznemu podmiotowi. Szczegółowe informacje na ten temat można uzyskać, kontaktując się z właściwymi organami władzy samorządowej.

⚠ PRECAUȚIE

Acest produs nu trebuie aruncat la gunoiul menajer la sfârșitul duratei sale de viață, ci trebuie scos din uz în conformitate cu reglementările locale sau naționale adecvate și într-un mod corect din punct de vedere al protecției mediului.
Datorită agentului frigorific, a uleiului și a altor componente ale aparatului de aer condiționat, demontarea acestuia trebuie făcută de un instalator profesionist în conformitate cu reglementările aplicabile. Contactați autoritățile competente pentru mai multe informații.

⚠ ПРЕДУПРЕЖДЕНИЕ

Этот продукт не должен утилизироваться вместе с обычными бытовыми отходами по истечению срока службы, а сдан в экологические пункты сбора в соответствии с местными или национальными нормами.
Из-за хладагента, масла и других компонентов, содержащихся в кондиционере, его демонтаж должен выполняться профессиональным установщиком в соответствии с действующими правилами. Для получения дополнительной информации свяжитесь с соответствующими органами.

English

WARNING

BURST HAZARD

Do not allow air or any gas mixture containing oxygen into refrigerant cycle (i.e. piping)


WARNING

This symbol displayed on the unit indicates that this appliance is filled with R32, an odourless flammable refrigerant gas with low burning velocity (A2L class pursuant to ISO 817). If the refrigerant is leaked, there is a possibility of ignition if it enters in contact with an external ignition source.


CAUTION

This symbol displayed on the unit indicates that this appliance shall be handled by authorized service personnel only, referring to the Installation Manual.


CAUTION

This symbol displayed on the unit indicates that there is relevant information included in the Operation Manual and/or Installation Manual.


CAUTION

For more information, see the Installation and Operation Manual.

Español

ADVERTENCIA

RIESGO DE EXPLOSIÓN

Evite la entrada de aire o cualquier mezcla de gases que contenga oxígeno en el ciclo de refrigerante, por ejemplo, en las tuberías.


ADVERTENCIA

Este símbolo mostrado en el aparato indica que este está cargado con R32, un gas refrigerante inflamable e inodoro con una velocidad de combustión lenta (Clase A2L de acuerdo con ISO 817). Una fuga de refrigerante puede provocar un incendio si entra en contacto con una fuente de combustión externa.


PRECAUCIÓN

Este símbolo mostrado en el aparato indica que este debe ser manipulado únicamente por personal de un servicio autorizado con el soporte del manual de instalación.


PRECAUCIÓN

Este símbolo mostrado en el aparato indica que los manuales de funcionamiento y/o de instalación contienen información importante.


PRECAUCIÓN

Para más información, consulte el Manual de Instalación y Funcionamiento.

Deutsch

WARNUNG

BERSTGEFAHR

Lassen Sie nicht zu, dass Luft oder eine Sauerstoff enthaltene Gasmischung in den Kältemittelkreislauf (z. B. Rohrleitungen) gelangt.


WARNUNG

Dieses auf dem Gerät angezeigte Symbol zeigt an, dass das Gerät ist mit dem R32 geruchlosen brennbaren Kältemittel mit niedriger Brenngeschwindigkeit gefüllt (Klasse A2L gemäß ISO 817). Bei einem Kältemittelaustritt besteht die Gefahr der Entzündung, wenn das Kältemittel in Kontakt mit einer äußeren Zündquelle kommt.


VORSICHT

Dieses auf dem Gerät angezeigte Symbol zeigt an, dass dieses Gerät ein entzündbares Kältemittel verwendet. Bei einem Kältemittelaustritt besteht die Gefahr der Entzündung, wenn das Kältemittel in Kontakt mit einer äußeren Zündquelle kommt.


VORSICHT

Dieses auf dem Gerät angezeigte Symbol zeigt an, dass wichtige Informationen im Betriebshandbuch und/oder Installationshandbuch enthalten sind.


VORSICHT

Weitere Informationen finden Sie in der Installations- und betriebshandbuch.

Français

AVERTISSEMENT

DANGER D'ÉCLATEMENT

Évitez que de l'air ou un mélange de gaz contenant de l'oxygène ne pénètre dans le cycle frigorifique (c.-à-d. tuyauterie)


AVERTISSEMENT

Ce symbole affiché sur l'appareil indique que l'appareil est chargé avec R32, un gaz frigorigène inflammable sans odeur à basse vitesse de combustion (Classe A2L selon ISO 817). En cas de fuite de frigorigène, il existe un risque d'incendie si celui-ci est exposé à une source d'inflammation externe.


ATTENTION

Ce symbole affiché sur l'appareil indique que seul le personnel de maintenance autorisé doit manipuler l'équipement, en se reportant au manuel d'installation.


ATTENTION

Ce symbole affiché sur l'appareil indique que le manuel de fonctionnement et/ou le manuel d'installation contient des informations importantes.


ATTENTION

Pour plus d'informations, reportez-vous au Manuel d'installation et de fonctionnement.

Italiano

AVVERTENZA

PERICOLO DI SCOPPIO

Fare in modo che all'interno del ciclo di refrigerazione non entrino aria o qualsiasi miscela di gas contenente ossigeno (per es. le tubazioni).


AVVERTENZA

Questo simbolo visualizzato sull'unità indica che l'unità é caricata con R32, un gas refrigerante infiammabile e inodore con una velocità di combustione lenta (Classe A2L secondo ISO 817). Una perdita di refrigerante può provocare un incendio se entra a contatto con una fonte di combustione esterna.


AVVERTENZA

Questo simbolo visualizzato sull'unità indica che l'unità deve essere gestita solo da personale di servizio autorizzato, facendo riferimento al Manuale di Installazione.


AVVERTENZA

Questo simbolo visualizzato sull'unità indica che ci sono informazioni rilevanti incluse nel Manuale d'uso e/o nel Manuale di Installazione.

AVVERTENZA

Per ulteriori informazioni, consultare il Manuale d'installazione e d'uso.

Português

ATENÇÃO

PERIGO DE REBENTAMENTO

Não permitir a entrada de ar ou de qualquer mistura de gás com oxigénio para o ciclo de refrigeração (isto é, para tubagem).

ATENÇÃO

Este símbolo mostrado na unidade indica que a unidade contém R32, um gás refrigerante inflamável e inodoro com uma baixa velocidade de queima (Classe A2L de acordo com ISO 817). Em caso de fuga de refrigerante, existe a possibilidade de ignição se entrar em contacto com uma fonte de ignição externa.

CUIDADO

Este símbolo mostrado na unidade indica que a unidade deve ser manuseada apenas por pessoal autorizado, mediante consulta do Manual de Instalação.

CUIDADO

Este símbolo mostrado na unidade indica que o Manual de Funcionamento e/ou Instalação inclui informação relevante.

CUIDADO

Para mais informação, consulte o Manual de Instalaçao e de Funcionamiento.

Dansk

ADVARSEL

BRISTEFARE

Lad ikke luft eller en gasblanding, der indeholder ilt, komme ind i kølemiddelcyklussen (dvs. rørføringen)

ADVARSEL

Dette symbol vises på enheden angiver, at enheden er fyldt med R32, en brændbar og lugtfri kølemiddelgas med en langsom forbrændingshastighed (klasse A2L i henhold til ISO 817). Udslip af kølemiddel kan forårsage brand, hvis kølemidlet kommer i kontakt med en ekstern antændelseskilde.

FORSIGTIG

Dette symbol vises på enheden angiver, at enheden kun skal håndteres af autoriseret servicepersonale under henvisning til installationsmanualen.

FORSIGTIG

Dette symbol vises på enheden angiver, at der er relevante oplysninger, der er indeholdt i drifts- og/eller installationsmanualen.

FORSIGTIG

For yderligere information se installations- og betjeningsvejledningen.

Nederlands

WAARSCHUWING

BARSTGEVAAR

Laat geen lucht of een gasmengsel dat zuurstof bevat in de koelmiddelcyclus (d.w.z. leidingen).

WAARSCHUWING

Dit symbool op het apparaat geeft aan dat het apparaat is gevuld met R32, een geurloos ontvlambaar koelmiddel met een lage brandsnelheid (klasse A2L volgens ISO 817). Als het koelmiddel lekt, kan het ontbranden wanneer het in contact komt met een externe ontstekingsbron.

LET OP

Dit symbool op het apparaat geeft aan dat het apparaat alleen door bevoegd personeel mag worden gebruikt, met verwijzing naar de installatiehandleiding.

LET OP

Dit symbool op het apparaat geeft aan dat er relevante informatie is opgenomen in de gebruiksaanwijzing en / of installatiehandleiding.

LET OP

Meer informatie hierover vindt u in de installatie-en bedieningshandleiding.

Svenska

VARNING

SPRÄNGRISK

Låt ingen luft eller gasblandning innehållande syra komma in i kylmedelcykeln (t.ex. rörledning)

VARNING

Den här symbolen som visas på enheten indikerar att enheten är fylld med R32, ett luktfritt brandfarligt kylmedel med låg förbränningshastighet (A2L-klass enligt ISO 817). Om kylmedel läcker ut finns det risk för antändning om det kommer i kontakt med en extern antändningskälla.

VARNING

Den här symbolen som visas på enheten indikerar att enheten endast får hanteras av auktoriserad servicepersonal och i enlighet med installationsmanualen.

VARNING

Den här symbolen som visas på enheten indikerar att användarmanualen/installationsmanualen innehåller viktig information.

VARNING

För mer information, se referensguiden för installation- och drifthandbok.

Ελλhnika

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

ΚΙΝΔΥΝΟΣ ΦΩΤΙΑΣ

Μην επιτρέπετε την είσοδο αέρα ή οποιοδήποτε μείγμα αερίου που περιέχει οξυγόνο στον κύκλο ψυκτικού μέσου (δηλαδή σωλήνωση)

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

Αυτό το σύμβολο που εμφανίζεται στη μονάδα δείχνει ότι η μονάδα είναι γεμάτη με R32, ένα άοσμο εύφλεκτο ψυκτικό με χαμηλή ταχύτητα καύσης (κλάση A2L σύμφωνα με το πρότυπο ISO 817). Η διαρροή του ψυκτικού μέσου μπορεί να προκαλέσει πυρκαγιά αν έρθει σε επαφή με ένα εξωτερικό μέσο.

ΠΡΟΣΟΧΗ

Αυτό το σύμβολο που εμφανίζεται στη μονάδα δείχνει ότι η μονάδα πρέπει να πραγματοποιείται μόνο από εγκεκριμένο προσωπικό σέρβις σύμφωνα με το εγχειρίδιο εγκατάστασης.

ΠΡΟΣΟΧΗ

Αυτό το σύμβολο που εμφανίζεται στη μονάδα δείχνει ότι υπάρχουν σχετικές πληροφορίες στο εγχειρίδιο λειτουργίας και/ή στο εγχειρίδιο εγκατάστασης.

ΠΡΟΣΟΧΗ

Για περισσότερες πληροφορίες, ανατρέξτε στο Εγχειρίδιο εγκατάστασης και λειτουργίας.

Български

ПРЕДУПРЕЖДЕНИЕ

ОПАСНОСТ ОТ ИЗБУХВАНЕ

В цикъла на хладилния агент (т.е. в тръбите) не бива да се допуска проникването на въздух и каквато и да било друга газова смес.

ПРЕДУПРЕЖДЕНИЕ

Този символ, изобразен на изделието, показва, че този уред е запълнен с R32, леснозапалим хладилен газ без мирис и с ниска скорост на горене (клас A2L по ISO 817). Ако хладилният агент протече, възниква възможност от запалване, ако влезе в контакт с външен източник на запалване.

ВНИМАНИЕ

Този символ, изобразен на изделието, показва, че с този уред може да работят само упълномощени за тази цел сервизни техници и при спазване указанията от Ръководството за инсталиране.

ВНИМАНИЕ

Този символ, изобразен на изделието, показва, че в Ръководството за експлоатация и/или в Ръководството за инсталиране има съответната информация.

ВНИМАНИЕ

За повече информация виж Ръководството за инсталиране и експлоатация.

Čeština

VAROVÁNÍ

NEBEZPEČÍ TŘESKU

Nedopusťte, aby vzduch či jakákoli plynná směs obsahující kyslík pronikly do chladivového okruhu (např. potrubí).

VAROVÁNÍ

Tento symbol zobrazený na jednotce označuje, že náplní tohoto zařízení je R32, hořlavý chladivový plyn bez zápachu s mírnou hořlavostí (třída A2L podle ISO 817). Pokud chladivo unikne, existuje možnost vznícení, pokud se dojde ke kontaktu s externím zápalným zdrojem.

POZOR

Tento symbol zobrazený na jednotce označuje, že podle Návodu k instalaci smí toto zařízení obsluhovat pouze autorizovaný technický personál.

POZOR

Tento symbol zobrazený na jednotce označuje, že Návod k obsluze a/nebo v Návod k instalaci obsahuje relevantní informace.

POZOR

Více informací naleznete v Návodu k instalaci a obsluze.

Eesti

HOIATUS

LÕHKEMISOHT

Ärge laske jahutussüsteemi (s.o torustikku) õhku või gaasisegu, mis sisaldab hapnikku.

HOIATUS

See sümbol seadme peal näitab, et seade on täidetud lõhnatu, tuleohtliku, aeglase põlemiskiirusega jahutusgaasiga R32 (standardi ISO 817 järgi klass A2L). Kui jahutusvahendit lekib, võib see kokkupuutel välise süüteallikaga põlema süttida.

ETTEVAATUST

See sümbol seadme peal näitab, et seda seadet tohivad käsitseda ainult volitatud teenindustöötajad, kes lähtuvad paigaldusjuhendist.

ETTEVAATUST

See sümbol seadme peal näitab, et vajalikku teavet leiab kasutus- ja/või paigaldusjuhendist.

ETTEVAATUST

Lisateavet leiab paigaldus- ja/või kasutusjuhendist.

Magyar

FIGYELEM

FELSZAKADÁSVESZÉLY

Ne engedje, hogy a hűtőközegbe (pl. a csővezetékekbe) levegő vagy oxigéntartalmú gázkeverék kerüljön.

FIGYELEM

A készüléken megjelenő szimbólum azt jelzi, hogy a berendezés R32 hűtőközeggel van feltöltve, amely egy szagtalan, gyúlékony, alacsony égési sebességű (az ISO 817 szabvány értelmében A2L osztályú) hűtőközeg gáz. A hűtőközeg szivárgása esetén gyulladásveszély áll fenn, amennyiben a hűtőközeg külső gyújtóforrással érintkezik.

FIGYELMEZTETÉS

Ez a készüléken megjelenő szimbólum azt jelzi, hogy a berendezést csak felhatalmazott szervizszemélyzet kezelheti, a Telepítési útmutató alapján.

FIGYELMEZTETÉS

Ez a készüléken megjelenő szimbólum azt jelzi, hogy az Üzemeltetési útmutató és/vagy a Telepítési útmutató fontos információt tartalmaz az adott kérdésre vonatkozóan.

FIGYELMEZTETÉS

További információkért lásd a Telepítési és Üzemeltetési útmutatót.

Latviešu

BRĪDINĀJUMS

ŠALTS RISKS

Neļaujiet gaisam vai citiem skābekli saturošiem gāzes maisījumiem iekļūt aukstumaģenta ciklā (t.i., caurulēs)

BRĪDINĀJUMS

Šis uz ierīces parādītais simbols norāda, ka šī ierīce ir piepildīta ar R32, bez smakas un viegli uzliesmojošu dzesēšanas šķidruma gāzi ar zemu sadegšanas ātrumu (A2L klase saskaņā ar ISO 817). Ja aukstumaģents ir noplūdis, pastāv aizdegšanās iespēja, ja tas nonāk saskarē ar ārēju aizdegšanās avotu.

UZMANĪBU

Šis uz ierīces redzamais simbols norāda, ka ar šo ierīci drīkst rīkoties tikai pilnvarots servisa personāls, atsaucoties uz uzstādīšanas rokasgrāmatu.

UZMANĪBU

Šis uz ierīces redzamais simbols norāda, ka darbības rokasgrāmatā un/vai uzstādīšanas rokasgrāmatā ir iekļauta būtiska informācija.

UZMANĪBU

Papildinformāciju skatiet Instalācijas un ekspluatācijas rokasgrāmatā.

Lietuvių

PERSPĖJIMAS

SPROGIMO PAVOJUS

Neleiskite, kad į aušinimo ciklą (t. y. vamzdynus) patektų oro ar kitų dujų mišinių, kuriuose yra deguonies.

PERSPĖJIMAS

Šis ant elemento rodomas simbolis nurodo, kad šis prietaisas užpildytas R32, bekvapėmis degiomis aušinimo dujomis, turinčiomis mažą degimo greitį (A2L klasė pagal ISO 817). Jei aušinimo medžiaga nutekėjo ir ji liečiasi su išoriniu degimo šaltiniu, kyla užsidegimo galimybė.

ĮSPĖJIMAS

Šis ant elemento rodomas simbolis nurodo, kad su šiuo prietaisu gali dirbti tik įgalioti techninės priežiūros darbuotojai, remdamiesi Montavimo vadovu.

ĮSPĖJIMAS

Šis ant elemento rodomas simbolis nurodo, kad naudojimo vadove ir (arba) montavimo vadove yra informacijos.

ĮSPĖJIMAS

Daugiau informacijos rasite „Montavimo ir naudojimo vadove“.

Polski

OSTRZEŻENIE

ZAGROŻENIE WYBUCHEM

Niedopuszczalne jest przedostanie się powietrza lub mieszaniny gazowej zawierającej tlen do obiegu (tj. przewodów rurowych) czynnika chłodniczego.

OSTRZEŻENIE

Umieszczenie tego symbolu na jednostce oznacza, że jest ona napełniona czynnikiem chłodniczym R32, bezwonnym i palnym gazem o niskiej prędkości spalania (klasa A2L zgodnie z normą ISO 817). Wyciek chłodziwa może spowodować pożar, gdyby doszło do kontaktu z zewnętrznym źródłem zapłonu.

OSTROŻNIE

Umieszczenie tego symbolu na jednostce oznacza, że może być ona obsługiwana wyłącznie przez pracowników autoryzowanego serwisu w oparciu o informacje zawarte w Instrukcji instalacji.

OSTROŻNIE

Umieszczenie tego symbolu na jednostce oznacza, że w Instrukcji obsługi i/lub Instrukcji instalacji znajdują się ważne informacje na dany temat.

OSTROŻNIE

Szczegółowe informacje można znaleźć w Instrukcji instalacji i obsługi.

Română

AVERTISMENT

PERICOL DE DEFLAGRAȚIE

Nu permiteți pătrunderea aerului sau oricărui amestec de gaz care conține oxigen în ciclul agentului frigorific (adică în conducte).

AVERTISMENT

Această pictogramă afișată pe unitate indică faptul că acest aparat este umplut cu R32, un gaz frigorific inflamabil inodor, cu viteză de ardere redusă (clasa A2L conform standardului ISO 817). Pierderile de agent frigorific pot cauza pericol de aprindere dacă intră în contact cu o sursă de aprindere externă.

PRECAUȚIE

Această pictogramă afișată pe unitate indică faptul că acest aparat trebuie să fie manipulat doar de personal de service autorizat, respectându-se instrucțiunile din manualul de instalare.

PRECAUȚIE

Această pictogramă afișată pe unitate indică faptul că manualul de operare și/sau manualul de instalare conțin informații importante.

PRECAUȚIE

Pentru mai multe informații vă rugăm să consultați manualul de instalare și operare.

Русский

ПРЕДУПРЕЖДЕНИЕ

ВЗРЫВООПАСНОСТЬ

Не допускайте попадания воздуха или газовых смесей, содержащих кислород, в цикл охлаждения (т. е. трубопровод)

ПРЕДУПРЕЖДЕНИЕ

Этот символ, отображаемый на блоке, указывает на то, что данный прибор заполнен воспламеняющимся хладагентом без запаха R32 с низкой скоростью горения (класс A2L согласно ISO 817). В случае утечки хладагента существует вероятность возгорания при контакте с внешним источником возгорания.

ВНИМАНИЕ

Этот символ, отображаемый на блоке, указывает на то, что с этим устройством должен обращаться только авторизованный обслуживающий персонал, ссылаясь на Руководство по установке.

ВНИМАНИЕ

Этот символ, отображаемый на блоке, указывает на наличие соответствующей информации, включенной в Руководство по эксплуатации и / или Руководство по установке.

ВНИМАНИЕ

Для получения дополнительной информации см. Руководство по установке и эксплуатации.

English

RISK OF EXPLOSION

The compressor must be stopped before removing the refrigerant pipes.

All service valves must be fully closed after pumping down operation.

- Make sure that unit installation and refrigerant piping installation comply with applicable legislation in each country. Also, in Europe, EN378 must be complied, as it is the applicable standard.
- The supplementary information about the purchased products is supplied in a CD-ROM, which can be found bundled with the outdoor unit. In case that the CD-ROM is missing or it is not readable, please contact your Hitachi dealer or distributor.
- **PLEASE READ MANUALS AND THE FILES ON THE CD-ROM CAREFULLY BEFORE STARTING WORK ON THE INSTALLATION OF THE AIR CONDITIONING SYSTEM**. Failure to observe the instructions for installation, use and operation described in this documentation may result in operating failure including potentially serious faults, or even the destruction of the air conditioning system.
- Verify, in accordance with the manuals which appear in the outdoor and indoor units, that all the information required for the correct installation of the system is included. If this is not the case, contact your distributor.

Indoor Unit	Outdoor Unit
Installation and operation manual	Installation manual
	CD-ROM
	Additional safety manual for R32 refrigerant air conditioner and heat pump according to IEC 60335-2-40:2018

Español

RIESGO DE EXPLOSIÓN

Antes de retirar las tuberías de refrigerante debe detener el compresor.

Tras recuperar el refrigerante todas las válvulas de servicio deben estar completamente cerradas

- Asegúrese de que la instalación de la unidad y de la tubería de refrigerante cumplan con la legislación vigente de cada país. Asimismo, en Europa se debe cumplir la EN378, ya que es la norma aplicable.
- En el CD-ROM que se incluye con la unidad exterior encontrará información adicional acerca del producto adquirido. Si no tiene el CD-ROM o si es ilegible contacte con su proveedor o distribuidor Hitachi.
- **LEA ATENTAMENTE EL MANUAL Y EL CONTENIDO DEL CD-ROM ANTES DE INICIAR LAS TAREAS DE INSTALACIÓN DEL SISTEMA DE AIRE ACONDICIONADO.** El incumplimiento de las instrucciones de instalación, uso y funcionamiento descritas en este documento puede provocar fallos de funcionamiento potencialmente graves, o incluso la destrucción del sistema.
- Compruebe, en los manuales de las unidades interior y exterior, que dispone de toda la información necesaria para la correcta instalación del sistema. Si no es así, póngase en contacto con su distribuidor.

Unidad interior	Unidad exterior
Manual de Instalación y Funcionamiento	Manual de Instalación
	CD-ROM
	Manual de seguridad adicional para sistemas de aire acondicionado y bomba de calor con refrigerante R32 de acuerdo con la norma IEC 60335-2-40:2018

Deutsch

EXPLOSIONSGEFAHR

Der Kompressor muss abgeschaltet werden, bevor die Kältemittelleitungen entfernt werden.

Alle Betriebsventile müssen nach dem Abpumpbetrieb vollständig geschlossen sein.

- Stellen Sie sicher, dass die Anlageninstallation und die Kältemittelleitungsinstallation die anwendbare Gesetzgebung in jedem Land erfüllt. Auch in Europa muss EN378 erfüllt werden, da sie die anwendbare Norm ist.
- Die ergänzenden Informationen zu den erworbenen Produkten werden auf einer CD-ROM bereitgestellt, die im Paket mit dem Außengerät zu finden ist. Falls diese CD-ROM fehlen oder nicht lesbar sein sollte, setzen Sie sich bitte mit Ihrem Hitachi-Händler oder Vertragspartner in Verbindung.
- **LESEN SIE DIE VORLIEGENDE ANLEITUNG UND DIE DATEIEN AUF DER CD-ROM SORGFÄLTIG DURCH, BEVOR SIE MIT DER INSTALLATION DER KLIMAANLAGE BEGINNEN.** Die Nichtbeachtung der in der Produktdokumentation beschriebenen Installations-, Nutzungs- und Betriebshinweise kann nicht nur Funktionsstörungen, sondern auch mehr oder weniger schwere Schäden und im Extremfall sogar einen nicht zu behebenden Schaden an der Klimaanlage hervorrufen.
- Überprüfen Sie anhand der mit den Außen- und Innengeräten gelieferten Handbüchern, dass alle für die korrekte Installation des Systems erforderlichen Informationen vorhanden sind. Wenn dies nicht der Fall ist, wenden Sie sich an Ihren Hitachi-Händler.

Indoor Unit	Outdoor Unit
Installations-und betriebshandbuch	Installationshandbuch
	CD-ROM
	Zusätzliches Sicherheitshandbuch für eine Klimaanlage und eine Wärmepumpe mit R32-Kältemittel gemäß IEC 60335-2-40:2018

Français

RISQUE D'EXPLOSION

Veillez à arrêter le compresseur avant de retirer les tuyauteries frigorifiques.

Veillez à fermer complètement toutes les vannes de service après la vidange.

- Assurez-vous que l'installation des unités et de la tuyauterie frigorifique est conforme aux réglementations en vigueur dans chaque pays. En sachant qu'en Europe les installations doivent

obligatoirement satisfaire à la norme EN378.

- Avec le CD-ROM inclus dans le groupe extérieur vous trouverez l'information supplémentaire à propos du produit acquis. Si vous n'avez pas ce CD-ROM où il est illisible contactez avec votre fournisseur ou distributeur Hitachi.
- **VEUILLEZ LIRE LE MANUEL ET LES FICHIERS DU CD-ROM ATTENTIVEMENT AVANT DE COMMENCER LES TRAVAUX D'INSTALLATION DU SYSTÈME DE CONDITIONNEMENT D'AIR.** Le non-respect des instructions d'installation, d'utilisation et de fonctionnement décrites dans le présent document peut entraîner des pannes y compris des défaillances potentiellement graves, ou même la destruction du système de conditionnement d'air.
- Vérifiez, conformément aux instructions des manuels fournis avec les unités intérieures et les groupes extérieurs, que toutes les informations nécessaires à la bonne installation du système vous ont été fournies. Si ce n'est pas le cas, contactez votre distributeur.

Unité intérieure	Unité extérieure
Manuel d'installation et de fonctionnement	Manuel d'installation
	CD-ROM
	Manuel de sécurité supplémentaire pour climatiseur et pompe à chaleur avec réfrigérant R32, conformément à la norme IEC 60335-2-40:2018

Italiano

RISCHIO DI ESPLOSIONE

Il compressore deve essere arrestato prima di rimuovere i tubi del refrigerante.

Tutte le valvole di servizio devono essere completamente chiuse dopo lo svuotamento della pompa.

- Assicurarsi che l'installazione dell'unità e quella della linea del refrigerante siano conformi alla legislazione vigente in ciascun paese. Inoltre, in Europa, devono essere conformi alla norma EN378, in quanto è lo standard vigente.
- Le informazioni complete riguardo i prodotti acquistati sono forniti all'interno di un CD-ROM che può essere trovato insieme all'unità esterna. Nel caso in cui il CD-ROM non fosse presente o leggibile, contattare il proprio distributore o rivenditore Hitachi.
- **LEGGERE ATTENTAMENTE IL PRESENTE MANUALE E I FILE CONTENUTI NEL CD-ROM PRIMA DI INIZIARE LE OPERAZIONI DI INSTALLAZIONE DEL SISTEMA DI ARIA CONDIZIONATA.** Il mancato rispetto delle istruzioni di installazione, d'uso e di esercizio descritte nel presente documento potrà provocare errori di funzionamento, inclusi guasti potenzialmente gravi, o perfino la distruzione del sistema di aria condizionata.
- In base ai manuali forniti con le unità interne ed esterne, verificare di disporre di tutte le informazioni necessarie per l'installazione corretta del sistema. In caso contrario, contattare il proprio rivenditore.

Unità interna	Unità esterna
Manuale d'installazione e d'uso	Manuale di installazione
	CD-ROM
	Manuale di sicurezza aggiuntivo per climatizzatore e pompa di calore con refrigerante R32 in conformità con la norma IEC 60335-2-40:2018

Português

RISCO DE EXPLOSÃO

O compressor deve ser desligado antes da remoção dos tubos de refrigerante.

As válvulas de manutenção devem estar completamente fechadas depois da eliminação do refrigerante.

- Certifique-se de que a instalação da unidade e a instalação da tubagem de refrigerante cumprem a legislação aplicável em cada país. Na Europa, a norma EN378 deve ser cumprida, por ser a aplicável.
- A informação suplementar sobre os produtos adquiridos é providenciada num CD-ROM, fornecido juntamente com a unidade exterior. Contacte o seu distribuidor ou revendedor Hitachi, caso o CD-ROM esteja em falta ou seja ilegível.
- **LEIA ATENTAMENTE O MANUAL E OS FICHEIROS NO CD-ROM ANTES DE COMEÇAR A TRABALHAR NA INSTALAÇÃO DO SISTEMA DE AR CONDICIONADO.** A inobservância das instruções de instalação, utilização e funcionamento descritas neste documento pode ter como consequência falhas no funcionamento, incluindo danos potencialmente graves, ou mesmo a destruição do sistema de ar condicionado.
- Verifique, de acordo com os manuais das unidades exterior e interior, que está incluída toda a informação necessária para a instalação correta do sistema. Caso contrário, entre em contacto com o seu distribuidor.

Unidade Interior	Unidade Exterior
Manual de instalação e de funcionamento	Manual de instalação
	CD-ROM
	Manual de segurança adicional para ar condicionado e bomba de calor com refrigerante R32 de acordo com a norma IEC 60335-2-40:2018

Dansk

RISIKO FOR EKSPLOSION

Kompressoren skal stoppes, inden kølemiddelrørene fjernes.

Alle serviceventiler skal være helt lukkede, når kølemidlet er blevet fjernet.

- Sørg for, at installationen af enheden og kølemiddelrørene overholder den gældende lov i det pågældende land. I Europa gælder beskyttelsesstandard EN378.
- Alt supplerende informationsmaterialer om de anskaffede produkter findes på en CD-ROM, som ligger pakket sammen med udendørsenheden. I tilfælde af, at CD-ROMMEN mangler, eller hvis den ikke er læsbar, bedes du kontakte Hitachis forhandler eller leverandør.

- **LÆS VENLIGST VEJLEDNINGEN OG FILERNE PÅ CD-ROMMEN GRUNDIGT IGENNEM, FØR DU PÅBEGYNDER INSTALLATIONEN AF KLIMAANLÆGGET.** Manglende overholdelse af anvisningerne vedrørende installation, brug og betjening beskrevet i denne dokumentation kan medføre driftsfejl, alvorlige defekter eller ødelæggelse af klimaanlægget.
- Kontroller, at alle de oplysninger, der er nødvendige for en korrekt montering af systemet, findes i manualerne til indendørs- og udendørsenhederne. Hvis dette ikke er tilfældet, skal du kontakte din distributør.

Indendørs enhed	Udendørs enhed
Installations- og betjeningsvejledning	Installationsmanual
	CD-ROM
	Ekstra sikkerhedsmanual til klimaanlæg og varmepumpe med R32-kølemiddel i henhold til IEC 60335-2-40:2018

Nederlands

EXPLOSIEGEVAAR

De compressor moet worden gestopt alvorens de koelmiddel-pijpen te verwijderen.

Alle onderhoudskranen moeten volledig gesloten zijn na het pompen.

- Zorg ervoor dat de installatie van de unit en de leidingen voor het koelmiddel overeenkomen met de wetgeving uit elk land. In Europa moet tevens EN378 overeenkomen gezien het de toepasbare norm is.
- Aanvullende informatie over het gekochte product is beschikbaar op een cd-rom, die wordt meegeleverd met de buitenunit. Als deze cd-rom ontbreekt of niet leesbaar is, neem dan contact op met uw Hitachi-distributeur.
- **LEES DE HANDLEIDING EN DE BESTANDEN OP DE CD-ROM ZORGVULDIG DOOR VOORDAT U AAN DE INSTALLATIE VAN HET AIRCONDITIONINGSSYSTEEM BEGINT.** Als u de instructies voor de installatie, het gebruik en de werking zoals beschreven in deze documentatie niet opvolgt, kan dit leiden tot een slechte werking van het systeem, met inbegrip van ernstige storingen en zelfs de vernieling van het systeem.
- Controleer met behulp van de handleidingen van de buiten- en binnenunits of alle informatie die nodig is voor een juiste installatie van het systeem aanwezig is. Neem contact op met uw distributeur als dit niet het geval is.

Indoor Unit	Outdoor Unit
Installatie-en bedieningshandleiding	Installatiehandleiding
	CD-ROM
	Aanvullende veiligheidsinformatie voor R32 koelmiddel voor airconditioner en warmtepomp in overeenstemming met IEC 60335-2-40:2018

Svenska

RISK FÖR EXPLOSION

Kompression måste stängas av innan kylrören avlägsnas.

Alla serviceventiler måste stängas av ordentligt efter ned-pumpning.

- Försäkra att installation av enheten och kylrör uppfyller tillämpbara bestämmelser för varje land. Inom Europa så måste man även uppfylla EN378 som tillämpbar standard.
- Ytterligare information om den förvärvade produkten finns på en CD-ROM som medföljer utomhusenheten. Om CD-ROM saknas eller är oläslig, vänligen kontakta er Hitachi-handlare eller återförsäljare.
- **LÄS IGENOM HANDBOKEN NOGGRANT INNAN DU PÅBÖRJAR INSTALLATIONEN AV LUFTKONDITIONDSYSTEMET.** Om inte instruktionerna för installation, användning och drift som beskrivs i denna dokumentation följs kan det leda till driftfel, inklusive eventuellt allvarliga fel, eller till och med att luftkonditioneringssystemet förstörs.
- Kontrollera, enligt handböckerna för inomhus- och utomhusenheterna, att all information som krävs för att utföra installationen av systemet korrekt finns med. Om så inte är fallet kontaktar du distributören.

Inomhusenhet	Utomhusenhet
Installation- och drifthandbok	Installationsmanual
	CD-ROM
	Extra säkerhetsmanual för R32-kylmedium i luftkonditioneringsapparat och värmepump, i enlighet med IEC 60335-2-40:2018

Ελληnika

ΚΙΝΔΥΝΟΣ ΕΚΡΗΞΗΣ

Ο συμπιεστής πρέπει να έχει σταματήσει προτού αφαιρέσετε τους σωλήνες ψυκτικού μέσου.

Όλες οι βαλβίδες λειτουργίας πρέπει να είναι πλήρως κλει-στές μετά την λειτουργία άντλησης.

- Βεβαιωθείτε ότι η εγκατάσταση της μονάδας και η εγκατάσταση της σωλήνωσης ψυκτικού μέσου τηρούν την ισχύουσα νομοθεσία της κάθε χώρας. Επίσης, στην Ευρώπη, πρέπει να τηρείται το EN378 καθώς είναι το πρότυπο που ισχύει.
- Όλες οι βοηθητικές πληροφορίες σχετικά με τα προϊόντα που έχετε αγοράσει περιλαμβάνονται στο CD-ROM μαζί με την εξωτερική μονάδα. Σε περίπτωση που δεν υπάρχει το CD-ROM ή δεν είναι αναγνώσιμο, επικοινωνήστε με τον διανομέα ή παροχέα της Hitachi.
- **ΔΙΑΒΑΣΤΕ ΚΑΙ ΕΞΟΙΚΕΙΩΘΕΙΤΕ ΜΕ ΤΟ ΕΓΧΕΙΡΙΔΙΟ ΚΑΙ ΤΑ ΑΡΧΕΙΑ ΤΟΥ CD-ROM ΠΡΟΤΟΥ ΞΕΚΙΝΗΣΕΤΕ ΜΕ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΤΟΥ ΣΥΣΤΗΜΑΤΟΣ ΚΛΙΜΑΤΙΣΜΟΥ.** Αν δεν λάβετε υπόψη τις οδηγίες εγκατάστασης, χρήσης και λειτουργίας που περιγράφονται σε αυτή την τεκμηρίωση, μπορεί να προκληθεί σφάλμα λειτουργίας, σημαντικά δυνητικά σφάλματα, ή ακόμη καταστροφή του συστήματος κλιματισμού.
- Βεβαιωθείτε, βάσει των εγχειριδίων των εξωτερικών

και εσωτερικών μονάδων, ότι περιλαμβάνονται όλες οι απαιτούμενες πληροφορίες για τη σωστή εγκατάσταση του συστήματος. Αν δεν περιλαμβάνονται, επικοινωνήστε με το διανομέα σας.

Εσωτερική μονάδα	Εξωτερική μονάδα
Εγχειριδιο Εγκαταστασης Και Λειτουργιας	Οδηγίες εγκατάστασης
	CD-ROM
	Επιπλέον οδηγίες ασφάλειας για ψυκτικό κλιματιστικού R32 και αντλία θέρμανσης σύμφωνα με το IEC 60335-2-40:2018

български

РИСК ОТ ВЗРИВ

Компресорът трябва да е напълно спрял, преди да се отстраняват тръбите за хладилния агент.

Всички обслужващи клапани трябва да са напълно затворени след операцията по изпомпване.

- Трябва да е сигурно, че монтажът на изделието и монтажът на тръбите за хладилния агент са в съответствие с приложимата нормативна уредба във всяка страна. В Европа задължително се спазва EN378, тъй като същият е приложимият стандарт.
- Допълнителната информация за закупените продукти се предлага на влизащ в комплекта CD-ROM, който се намира в един и същи пакет, залепен за външното тяло. В случай че CD-ROM липсва или не може да се чете, свържете се с вашия търговец или дистрибутор на Hitachi.
- **ПРЕДИ ЗАПОЧВАНЕ НА РАБОТА ПО МОНТАЖА НА КЛИМАТИЧНАТА ИНСТАЛАЦИЯ Е НЕОБХОДИМО ВНИМАТЕЛНО ДА ПРОЧЕТЕТЕ РЪКОВОДСТВАТА И ДА СЕ ЗАПОЗНАЕТЕ С ФАЙЛОВЕТЕ НА CD-ROM.**
- Неспазването на инструкциите по монтажа, употребата и експлоатацията, описани в тази документация, могат да доведат до експлоатационна повреда, включително до потенциално сериозни дефекти и дори до разрушаване на климатичната инсталация.
- Проверете дали цялата информация, необходима за правилния монтаж на инсталацията е включена в ръководствата за вътрешните и външните тела. Ако не е включена, свържете се с вашия дистрибутор.

Вътрешно тяло	Външно тяло
Ръководството за инсталиране и експлоатация	Ръководство за инсталиране
	CD-ROM
	Допълнително ръководство по безопасност при експлоатация на климатична инсталация с хладилен агент R32 и термопомпен агрегат съгласно IEC 60335-2-40:2018

Čeština

NEBEZPEČÍ VÝBUCHU

Kompresor je třeba před odstraněním chladivového potrubí zastavit.

Veškeré provozní ventily musí být před odčerpáním zcela uzavřené.

- Ujistěte se, že instalace jednotky a instalace chladivového potrubí splňují příslušné národní právní předpisy. Zároveň musí v Evropě splňovat EN378, neboť jde o příslušnou normu.
- Doplňkové informace o zakoupených produktech jsou dodávány na disku CD-ROM, který lze nalézt přiložený k venkovní jednotce. Pokud CD-ROM chybí nebo není čitelný, obraťte se na prodejce nebo distributora společnosti Hitachi.
- **NEŽ ZAČNETE S INSTALACÍ KLIMATIZAČNÍHO SYSTÉMU, PŘEČTĚTE SI, PROSÍM, DŮKLADNĚ NÁVODY A SOUBORY NA CD-ROMU.** Nedodržení pokynů pro instalaci, použití a provoz popsaných v této dokumentaci může mít za následek selhání provozu včetně případných vážných poruch nebo dokonce zničení klimatizačního systému.
- Zkontrolujte v souladu s manuály, které jsou součástí venkovní a vnitřní jednotky, zda jsou k dispozici všechny informace potřebné pro správnou instalaci systému. Pokud tomu tak není, kontaktujte svého distributora.

Vnitřní jednotka	Venkovní jednotka
Návod k instalaci a obsluze	Návod k instalaci
	CD-ROM
	Dodatečný bezpečnostní návod pro klimatizační jednotku a tepelné čerpadlo s chladivem R32, v souladu s IEC 60335-2-40:2018

Eesti

PLAHVATUSOHT

Enne jahutustorustiku eemaldamist tuleb kompressor tuleb seisma panna.

Pärast väljapumpamistoimingut tuleb kõik hoolduskla pid täiesti kinni panna.

- Veenduge, et seadme paigaldus ja jahutustorustiku paigaldus vastab igas riigis kohaldatavatele õigusaktidele. Euroopas tuleb täita ka standardi EN378 nõudeid, sest see on kohaldatav standard.
- Lisateavet ostetud toodete kohta saab väliseadme külge kinnitatud CD-ROMilt. Kui CD-ROM on kadunud või ei ole loetav, võtke palun ühendust Hitachi edasimüüja või turustajaga.
- **PALUN LUGEGE ENNE ÕHUKONDITSIONEERI SÜSTEEMI PAIGALDUSEGA TÖÖTAMIST HOOLIKALT JUHEND JA CD-ROMi FAILID LÄBI.** Käesolevates dokumentides kirjeldatud paigaldus-, kasutus- ja tööjuhendi eiramine võib põhjustada tõrkeid seadme töös, sealhulgas potentsiaalselt ohtlikke rikkeid, või koguni õhukonditsioneerisüsteemi hävitada.
- Kontrollige vastavalt väli- ja siseseadme juurde pandud juhenditele, et kogu süsteemi õigesti paigaldamiseks vajalik teave on olemas. Kui see nii ei ole, võtke ühendust turustajaga.

Siseseade	Väliseade
Paigaldus- ja kasutusjuhend	Paigaldusjuhend
	CD-ROM
	Lisaohutusjuhend R32 jahutusvedelikuga õhukonditsioneeri ja soojuspumba kohta vastavalt standardile IEC 60335-2-40:2018

Magyar

ROBBANÁSVESZÉLY

A kompresszort a hűtőközeg csővezetékeinek eltávolítása előtt le kell állítani.

A szivattyúzás után minden szervizszelepet teljesen el kell zárni.

- Ellenőrizze, hogy a készülék telepítése és a hűtőközeg csővezetékeinek telepítése megfelel az egyes országokban alkalmazandó jogszabályoknak. Európában emellett az alkalmazandó EN378 szabvány előírásait kell betartani.
- A megvásárolt termékre vonatkozó további információt a kültéri egységhez mellékelt CD-ROM tartalmazza. Hiányzó vagy nem olvasható CD-ROM esetén kérjük, forduljon a Hitachi kereskedőjéhez vagy forgalmazójához.
- **KÉRJÜK, HASZNÁLAT ELŐTT OLVASSA EL AZ ÚTMUTATÓKAT ÉS A CD-ROMON TALÁLHATÓ TUDNIVALÓKAT A LÉGKONDICIONÁLÓ RENDSZER TELEPÍTÉSÉRE VONATKOZÓAN.** Az alábbi dokumentációban foglalt telepítési, használati és üzemeltetési utasítások figyelmen kívül hagyása működési hibát okozhat, beleértve a potenciálisan súlyos hibákat vagy akár a légkondicionáló rendszer tönkretételét is.
- A kültéri és beltéri egységekhez mellékelt útmutatók alapján ellenőrizze, hogy ezek minden információt tartalmaznak a rendszer helyes telepítéséhez. Ellenkező esetben forduljon a forgalmazóhoz.

Beltéri egység	Kültéri egység
Telepítési és Üzemeltetési útmutató	Telepítési útmutató
	CD-ROM
	Kiegészítő biztonsági útmutató az R32 hűtőközeggel működő légkondicionálóhoz és hőszivattyúhoz az IEC 60335-2-40:2018 szabványnak megfelelően

Latviešu

SPRĀDZIENA RISKS

Pirms aukstumaģenta cauruļu noņemšanas kompresors jāaptur.

Visiem apkopes vārstiem pēc sūknēšanas ir jābūt pilnībā aizvērtiem.

- Pārliecinieties, ka ierīces uzstādīšana un aukstumaģenta cauruļvadu uzstādīšana atbilst katrā valstī spēkā esošajiem tiesību aktiem. Arī Eiropā ir jāievēro EN378, jo tas ir piemērojamais standarts.
- Papildu informācija par iegādātajiem produktiem tiek piegādāta kompaktdiskā, kuru var atrast komplektā ar āra ierīci. Ja kompaktdisks ir pazudis vai tas nav nolasāms, lūdzu, sazinieties ar savu Hitachi izplatītāju vai izplatītāju.
- **LŪDZU, RŪPĪGI IZLASIET ROKASGRĀMATAS UN KOMPAKTDISKA FAILUS, PIRMS UZSĀKAT GAISA KONDICIONĒŠANAS SISTĒMAS UZSTĀDĪŠANAS DARBU.** Šajā dokumentācijā aprakstīto uzstādīšanas, izmantošanas un ekspluatācijas instrukciju neievērošanas gadījumā var rasties darbības traucējumi, ieskaitot potenciāli nopietnus defektus vai pat gaisa kondicionēšanas sistēmas iznīcināšanu.
- Saskaņā ar rokasgrāmatām, kas iekļautas āra un iekštelpu ierīču komplektā, pārbaudiet, vai ir iekļauta visa informācija, kas nepieciešama sistēmas pareizai uzstādīšanai. Ja tas tā nav, sazinieties ar izplatītāju.

Iekštelpu ierīce	Āra ierīce
Uzstādīšanas un lietošanas rokasgrāmata	Uzstādīšanas rokasgrāmata
	CD-ROM
	Papildu drošības rokasgrāmata R32 aukstumaģentam gaisa kondicionierim un siltumsūknim saskaņā ar IEC 60335-2-40:2018

Lietuviškai

SPROGIMO RIZIKA

Prieš ištuštinant aušinimo medžiagos vamzdžius turi būti sustabdytas kompresorius.

Išsiurbus visi eksploatavimo vožtuvai turi būti visiškai uždaryti.

- Įsitikinkite, kad elemento ir aušinimo vamzdynų montavimas atitinka kiekvienoje šalyje galiojančius įstatymus. Be to, Europoje turi būti laikomasi EN378, nes tai yra taikomas standartas.
- Papildoma informacija apie įsigytus produktus pateikiama kompaktiniame diske, kurį galima rasti kartu su išoriniu elementu. Jei trūksta kompaktinio disko arba jo negalima perskaityti, kreipkitės į savo Hitachi atstovą arba platintoją.
- **ATIDŽIAI PERSKAITYKITE VADOVUS IR RINKMENAS KOMPAKTINIUOSE DISKUOSE PRIEŠ PRADĖDAMI DARBUS, SUSIJUSIUS SU ORO KONDICIONAVIMO SISTEMOS MONTAVIMU.** Šiuose dokumentuose aprašytų montavimo, naudojimo ir eksploatavimo instrukcijų nesilaikymas gali sukelti triktį, įskaitant galimus rimtus sutrikimus ar netgi oro visišką kondicionavimo sistemos sugadinimą.
- Pagal išorinio ir vidinio elementų vadovus patikrinkite, ar pateikta visa informacija, reikalinga tinkamam sistemos sumontavimui. Jei taip nėra, kreipkitės į platintoją.

Vidinis elementas	Išorinis elementas
Montavimo ir naudojimo vadovas	Montavimo vadovas
	Kompaktinis diskas
	Papildomas R32 aušinimo skysčio oro kondicionieriui ir šilumos siurbliui saugos vadovas pagal IEC 60335-2-40:2018

Polski

RYZYKO WYBUCHU

Przed odłączeniem przewodów rurowych czynnika chłodniczego należy wyłączyć sprężarkę.

Po odzyskaniu chłodziwa, niezbędne jest całkowite zamknięcie wszystkich zaworów serwisowych.

- Należy upewnić się, że montaż jednostki i przewodów rurowych czynnika chłodniczego spełnia przepisy

prawne obowiązujące w danym kraju. Ponadto w Europie wymagane jest przestrzeganie normy EN378, która stanowi obowiązujący standard.

- Dodatkowe informacje o nabytym produkcie znajdują się na płycie CD-ROM, która została dołączona do jednostki zewnętrznej. Jeżeli w komplecie brakuje tej płyty lub nie nie jest możliwe jej odczytanie, prosimy o skontaktowanie się z przedstawicielem handlowym lub dystrybutorem firmy Hitachi.
- **PRZED PRZYSTĄPIENIEM DO MONTAŻU INSTALACJI KLIMATYZACYJNEJ, NALEŻY ZAPOZNAĆ SIĘ TREŚCIĄ NINIEJSZEJ INSTRUKCJI ORAZ ZAWARTOŚCIĄ DOŁĄCZONEJ PŁYTY CD-ROM.** Nieprzestrzeganie prezentowanych tutaj zaleceń, dotyczących montażu, użytkowania i obsługi urządzeń, grozi ich awarią, włącznie z potencjalnie niebezpiecznymi awariami, a nawet zniszczeniem instalacji klimatyzacyjnej.
- Należy upewnić się, że instrukcje instalacji i obsługi jednostek wewnętrznych i zewnętrznych klimatyzatorów zawierają wszelkie niezbędne zalecenia odnoszące się do prawidłowego wykonania związanych z instalacją czynności montażowych. Gdyby tak nie było, należy skontaktować się z dystrybutorem.

Jednostka wewnętrzna	Jednostka zewnętrzna
Instrukcja instalacji i obsługi	Instrukcja instalacji
	Płyta CD-ROM
	Dodatkowa instrukcja bezpieczeństwa, dotycząca klimatyzatorów i pomp ciepła z czynnikiem chłodniczym R32, zgodna z normą IEC 60335-2-40:2018

Română

RISC DE EXPLOZIE

Trebuie să opriți compresorul înainte de a decupla conductele de agent frigorific.

Toate supapele de serviciu trebuie să fie complet închise după finalizarea operației de evacuare a agentului frigorific.

- Asigurați-vă că instalarea unității și a conductei de agent frigorific respectă legislația națională aplicabilă. În Europa trebuie respectat și standardul EN378.
- Informații suplimentare despre produsele achiziționate sunt furnizate pe un CD-ROM, care poate fi găsit împreună cu unitatea exterioară. În cazul în care CD-ROM-ul lipsește sau nu poate fi citit, contactați distribuitorul sau centrul autorizat Hitachi.
- **VĂ RUGĂM CITIȚI CU ATENȚIE MANUALELE ȘI FIȘIERELE DE PE CD-ROM ÎNAINTE DE A ÎNCEPE SĂ LUCRAȚI LA INSTALAREA SISTEMULUI DE AER CONDIȚIONAT.** Nerespectarea instrucțiunilor de instalare, utilizare și operare descrise în această documentație poate conduce la defecțiuni de funcționare, inclusiv la defecțiuni potențial grave sau chiar la distrugerea sistemului de aer condiționat.
- Verificați, în conformitate cu manualele care apar în unitățile exterioare și interioare, că sunt incluse toate informațiile necesare pentru instalarea corectă a sistemului. În caz contrar, contactați distribuitorul.

Unitate interioară	Unitate exterioară
Manual de instalare si operare	Manual de instalare
	CD-ROM
	Manual de siguranță suplimentar pentru aparatul de aer condiționat cu agent frigorific R32 și pompă de căldură conform IEC 60335-2-40:2018

Русский

РИСК ВЗРЫВА

Перед снятием труб для циркуляции хладагента компрессор должен быть остановлен.

После откачки все сервисные клапаны должны быть полностью закрыты.

- Убедитесь, что установка блока и трубопровода хладагента выполнены в соответствии с действующим законодательством в каждой стране. Помимо этого, в Европе необходимо соблюдать норму EN378, которая является применимым стандартом.
- Дополнительная информация о приобретенных продуктах поставляется на компакт-диске, который можно найти в комплекте с наружным блоком. Если компакт-диск отсутствует или он не читается, обратитесь к дилеру или дистрибьютору Hitachi.
- **ВНИМАТЕЛЬНО ПРОЧИТАЙТЕ РУКОВОДСТВА И ФАЙЛЫ НА КОМПАКТ-ДИСКЕ ПЕРЕД НАЧАЛОМ РАБОТЫ ПО УСТАНОВКЕ СИСТЕМЫ КОНДИЦИОНИРОВАНИЯ ВОЗДУХА.** Несоблюдение инструкций по установке, применению и эксплуатации, описанных в этой документации, может привести к сбоям в работе, включая потенциально серьезные неисправности или даже повреждение системы кондиционирования.
- Убедитесь, что в руководствах, прилагаемых к наружным и внутренним блокам, содержится вся информация, необходимая для правильной установки системы. Если это не так, обратитесь к своему дистрибьютору.

Внутренний блок	Наружный блок
Руководство по установке и эксплуатации	Руководство по установке
	Компакт-диск
	Дополнительное руководство по безопасности для хладагента R32 для кондиционера и теплового насоса в соответствии с IEC 60335-2-40:2018

English

R32 Refrigerant circuit

The unit installation and refrigerant piping should comply with the relevant local and national regulations for the designed refrigerant.

Due to R32 refrigerant and depending on final refrigerant charge amount, a minimum floor area for installation must be considered.

- If total refrigerant charge amount <1.84kg, there are no additional minimum floor area requirements.
- If total refrigerant charge amount ≥1.84kg, there are additional minimum floor area requirements to be checked.

◆ Minimum area requirements

In case of total refrigerant amount ≥1.84 kg, the unit should be installed, operated and stored in a room with a floor area larger than the minimum criteria. Use following graphic and table to determine these minimum criteria.

NOTE

In case of not achieving the minimum floor area, contact with your dealer.

For further information about refrigerant charge refer to the Outdoor Unit Installation Manual.

Español

Circuito de refrigerante R32

La instalación de la unidad y de la tubería de refrigerante debe cumplir con las normativas locales y nacionales relevantes específicas para el refrigerante.

Por el uso de refrigerante R32 y en función de la carga de refrigerante final, se debe tener en cuenta una área de suelo mínima para la instalación.

- Si la cantidad total de carga de refrigerante <1,84 kg, no se aplican requerimientos de área de suelo mínima adicionales.
- Si la cantidad total de carga de refrigerante ≥1,84 kg, hay que comprobar los requerimientos de área de suelo mínima adicionales.

◆ Requerimientos de área mínima

En caso de que la cantidad total de refrigerante ≥1,84 kg, la unidad se debería instalar, poner en funcionamiento y almacenar en un espacio con una área de suelo mayor que la de los criterios mínimos: Utilice la tabla y el gráfico que hay a continuación para determinar dichos criterios mínimos.

NOTA

En caso de no disponer del área de suelo mínima, contacte con su proveedor.

Para más información sobre la carga de refrigerante, consulte el manual de instalación de la unidad exterior.

Deutsch

R32 Kältemittelkreislauf

Die Anlageninstallation und die Kältemittelleitungen müssen die entsprechenden lokalen und nationalen Vorschriften für das konzipierte Kältemittel einhalten.

Wegen des Kältemittels R32 und abhängig von der endgültigen Kältemittelmenge, muss eine Mindestbodenfläche für die Installation berücksichtigt werden.

- Wenn die Gesamtkältemittelmenge <1,84 kg beträgt, gibt es keine zusätzlichen Anforderungen an die Mindestbodenfläche.
- Wenn die Gesamtkältemittelmenge ≥1,84 kg beträgt, gibt es zusätzliche Anforderungen an die Mindestbodenfläche, die geprüft werden müssen.

◆ Mindestflächenanforderungen

Falls die Gesamtkältemittelmenge ≥1,84 kg ist, muss die Anlage in einen Raum mit einer Bodenfläche größer als das Mindestkriterium installiert, betrieben und aufgestellt werden. Benutzen Sie die folgende Grafik und Tabelle, um dieses Mindestkriterium zu bestimmen.

HINWEIS

Falls die Mindestbodenfläche nicht erzielt werden kann, kontaktieren Sie Ihren Händler.

Weitere Informationen über die Kältemittelmenge finden Sie im Installationshandbuch des Außengeräts

Français

Circuit du frigorigène R32

L'installation des unités et de la tuyauterie frigorifique doit satisfaire aux réglementations locales et nationales pertinentes relatives au frigorigène utilisé.

En raison du frigorigène R32 et de la quantité finale de charge de frigorigène, il est nécessaire lors de l'installation de prévoir une surface au sol minimale.

- Si le quantité totale de charge de fluide frigorigène est <1,84 kg, il n'est alors pas nécessaire de tenir compte des exigences de surface au sol minimale.
- Si le quantité totale de charge de fluide frigorigène est ≥1,84 kg, il est nécessaire de prévoir une surface au sol minimale.

◆ Exigences de surface minimale

Si la quantité de frigorigène totale est ≥1,84 kg, l'unité doit alors être installée, utilisée et conservée dans une pièce dont la surface au sol est supérieure à la valeur minimale exigée. Reportez-vous aux graphiques suivants pour déterminer cette valeur minimale.

REMARQUE

S'il s'avère impossible de satisfaire à la surface au sol minimale requise, veuillez contacter votre fournisseur.

Pour de plus amples informations sur les travaux de charge de fluide frigorigène, consultez le Manuel d'installation du groupe extérieur.

Italiano

Circuito del refrigerante R32

L'installazione dell'unità e quella della linea del refrigerante devono essere conformi alle normative locali e nazionali relative al refrigerante progettato.

A causa del refrigerante R32 e in base alla quantità finale di carica di refrigerante, deve essere considerata una superficie minima di pavimento per l'installazione.

- Se la quantità totale di carica di refrigerante è <1,84 kg, non ci sono ulteriori requisiti di superficie minima per il pavimento.
- Se la quantità totale di carica di refrigerante è ≥1,84 kg, devono essere verificati ulteriori requisiti di superficie minima per il pavimento.

◆ Requisiti di superficie minima

Se la quantità totale di refrigerante è ≥1,84 kg, l'unità deve essere installata, utilizzata e conservata in una stanza con una superficie maggiore rispetto ai requisiti minimi. Fare riferimento al grafico e alla tabella di seguito riportati per determinare i requisiti minimi.

NOTA

Se non si raggiunge la superficie minima, contattare il rivenditore.

Per ulteriori informazioni sulla carica di refrigerante consultare il Manuale di installazione dell'unità esterna.

Português

Circuito de refrigerante R32

A instalação da unidade e a tubagem de refrigerante devem cumprir os regulamentos nacionais e locais para o refrigerante designado.

Devido ao refrigerante R32 e dependendo da quantidade de carga de refrigerante final, deve ser considerada uma área de piso mínima para a instalação.

- Se a quantidade de carga de refrigerante total for <1,84 kg, não existem requisitos adicionais de área de piso mínima.
- Se a quantidade de carga de refrigerante total for ≥1,84 kg, existem requisitos adicionais de área de piso mínima a cumprir.

◆ Requisitos de área mínima

Se a quantidade de refrigerante total for ≥1,84 kg, a unidade deve ser instalada, funcionar e ser guardada numa divisão com uma área de piso maior que os critérios mínimos. Utilize o seguinte gráfico e tabela para determinar estos critérios mínimos.

NOTA

Se não atingir a área de piso mínima, contacte o seu distribuidor.

Para mais informação sobre as tarefas de carga de refrigerante, consulte o Manual de instalação da unidade exterior.

Dansk

R32 Kølemiddelkredsløb

Installationen af enheden og af kølemiddelrørene skal overholde alle relevante lokale og nationale forskrifter for det pågældende kølemiddel.

Som følge af R32 og afhængig af den endelige mængde af kølemiddel påfyldt, skal installationen have et mindste gulvareal.

- Hvis samlet mængde af påfyldt kølemiddel er <1,84 kg, kræves der ikke noget ekstra gulvareal.
- Hvis samlet mængde af påfyldt kølemiddel er ≥1,84 kg, skal krav til ekstra gulvareal tages i betragtning.

◆ Krav til mindsterareal

Hvis den samlede mængde af kølemiddel er ≥1,84 kg, skal enheden installeres, betjenes og opbevares i et rum med et gulvareal, der er større end minimumskriterierne. Brug følgende diagram og tavle for at bestemme disse minimumskriterier.

BEMÆRK

Hvis mindste gulvareal ikke kan overholdes, skal du kontakte din forhandler.

Yderligere information om påfyldning af kølemiddel findes i Installationsvejledning til udendørsenheden.

Nederlands

R32 Koelmiddelcircuit

De installatie van de unit en de koelmiddelleidingen moeten zich aan de lokale en nationale wetgeving voor het gewenste koelmiddel toepassen.

Gezien het R32 koelmiddel en afhankelijk van de uiteindelijke hoeveelheid koelmiddel, moet er rekening worden gehouden met een minimale vloeroppervlakte voor de installatie.

- Als de totale hoeveelheid koelmiddel <1,84 kg is dan is er geen extra minimale vloeroppervlakte vereist.
- Als de totale hoeveelheid koelmiddel ≥1,84 kg is dan moet de vereiste extra minimale vloeroppervlakte worden geverifieerd.

◆ Minimale oppervlakte vereiste

In het geval de hoeveelheid totale koelmiddel ≥1,84 kg moet de unit in een kamer worden geïnstalleerd, gebruikt en opgeborgen met een grotere oppervlakte dan de minimale criteria. Raadpleeg de hieronder aangegeven grafiek en tabel om deze minimale vereiste te bepalen.

OPMERKING

Raadpleeg uw leverancier wanneer u niet aan de vereiste minimale vloeroppervlakte vooldoet.

Voor meer informatie over het bijvullen van koudemiddel raadpleegt u de installatiehandleiding van de buitenunit.

Svenska

R32 Kylkrets

Installationen av enhet och kylrör måste uppfylla alla relevanta lokala och nationella bestämmelser för det avsedda kylmedlet.

På grund av kylmedlet R32 och beroende på slutlig mängd kylmedel, så måste en minsta golvyta för installation beaktas.

- Om den totala mängden kylmedel understiger 1,84 kg så krävs ingen ytterligare minsta golvyta.
- Om den totala mängden kylmedel uppnår eller överstiger 1,84 kg så den minsta golvytan kontrolleras.

◆ Krav på minsta yta

Vid en total mängd kylmedel ≥1,84 kg, så ska enheten installeras, köras och förvaras i ett rum med en golvyta som överstiger minimikravet. Använd följande grafik och tabell för att fastställa dessa minimikrav:

OBS!

Om du inte kan uppnå den minsta golvytan, kontakta din återförsäljare.

För mer information om påfyllning av kylmedium, se utomhusenhetens Installationshandbok.

Ελλhnika

R32 Κύκλωμα ψυκτικού

Η εγκατάσταση της μονάδας και η σωλήνωση ψυκτικού πρέπει να τηρεί τον σχετικό κώδικα και τους εθνικούς κανονισμούς για το ψυκτικό που προορίζεται.

Λόγω του ψυκτικού R32 και ανάλογα την τελική ποσότητα πλήρωσης με ψυκτικό μέσο, πρέπει να λάβετε υπόψη μία ελάχιστη επιφάνεια δαπέδου.

- Αν η συνολική ποσότητα πλήρωσης με ψυκτικό μέσο <1,84 kg, δεν υπάρχουν επιπλέον απαιτήσεις για ελάχιστη επιφάνεια δαπέδου.
- Αν η συνολική ποσότητα πλήρωσης με ψυκτικό μέσο ≥1,84 kg, δεν υπάρχουν επιπλέον απαιτήσεις για ελάχιστη επιφάνεια δαπέδου που πρέπει να ελέγξετε.

◆ Απαιτήσεις για ελάχιστη επιφάνεια

Σε περίπτωση που η συνολική ποσότητα πλήρωσης με ψυκτικό μέσο ≥1,84 kg, η μονάδα πρέπει να εγκατασταθεί, να λειτουργεί και να αποθηκεύεται σε ένα δωμάτιο με επιφάνεια δαπέδου μεγαλύτερη από το ελάχιστο κριτήριο. Χρησιμοποιείστε το παρακάτω γραφικό και τον πίνακα για να προσδιορίσετε αυτά τα ελάχιστα κριτήρια.

ΣΗΜΕΙΩΣΗ

Σε περίπτωση που δεν υπάρχει η ελάχιστη επιφάνεια δαπέδου, επικοινωνήστε με τον προμηθευτή σας.

Για περισσότερες πληροφορίες σχετικά με την πλήρωση με ψυκτικό μέσο ανατρέξτε στο εγχειρίδιο εγκατάστασης της εξωτερικής μονάδας.

Български

Кръг на хладилния агент R32

Монтажът на изделието и тръбите за хладилния агент следва да съответстват на съответните разпоредби в страната, отнасящи се за предназначения за изделието хладилен агент.

Минималната площ за монтажа трябва да се съобрази с хладилния агент R32 и с крайното количество хладилен заряд.

- Ако общото количество хладилен заряд <1,84 kg, към минималната площ за монтажа няма допълнителни изисквания.
- Ако общото количество хладилен заряд ≥1,84 kg, трябва да се провери какви допълнителни изисквания има към минималната площ за монтажа.

◆ Изисквания към минималната площ

Ако общото количество хладилен заряд ≥1,84 kg, изделието следва да се монтира, експлоатира и съхранява в помещение с подова площ, по-голяма от минималните критерии. За определяне на тези минимални критерии се използват следните графика и таблица.

ЗАБЕЛЕЖКА

В случай че не се получава минималната подова площ е необходимо да се свържете с продавача.

Допълнителни справки за хладилния заряд могат да се правят в Ръководството за инсталиране на външното тяло.

Čeština

Chladivový okruh R32

Instalace jednotky a chladivového potrubí musí splňovat příslušné místní a národní předpisy týkající se určeného chladiva.

S ohledem na chladivo R32 a podle konečného množství chladivové náplně je třeba počítat s minimální rozlohou instalační plochy.

- Pokud je celkové množství chladivové náplně <1,84 kg, nevztahují se na minimální rozlohu instalační plochy žádné dodatečné požadavky.
- Pokud je celkové množství chladivové náplně ≥1,84 kg, je třeba přihlédnout k dodatečným požadavkům týkajících se minimální rozlohy instalační plochy.

◆ Požadavky na minimální plochu

Pokud je celkové množství chladivové náplně ≥1,84 kg, musí být se jednotka instalovat, provozovat a skladovat v místnosti o rozloze větší stanoví minimální kritéria. K určení tohoto minimálního kritéria použijte následující graf a tabulku.

POZNÁMKA

Pokud nesplňujete požadavky na minimální plochu, kontaktujte svého prodejce.

Více informací o chladivové náplni naleznete v Návodu k instalaci venkovní jednotky.

Eesti

R32 Jahutussüsteem

Seadme paigaldus ja jahutustorustik peab olema vastavuses ette nähtud jahutusvahendile kehtivate asjakohaste kohalike ja üleriigiliste eeskirjadega.

Jahutusvahendi R32 tõttu ja olenevalt lõplikust jahutusvahendi täitekogusest tuleb arvestada paigaldamiseks vajaliku minimaalse pindala nõudega.

- Kui kogu jahutusvahendi täitekogus on väiksem kui <1,84 kg, siis täiendavaid minimaalse põrandapinna nõudeid ei ole.
- Kui kogu jahutusvahendi täitekogus on suurem kui või võrdne ≥1,84 kg, siis tuleb kontrollida täiendavaid minimaalse põrandapinna nõudeid.

◆ Minimaalne pindala nõuded

Kui jahutusvahendi kogus kokku on ≥1,84 kg, tuleb seade paigaldada, seadmega töötada ja seadet hoida ruumis, mille põranda pindala on minimaalsest nõutavast pindalast suurem. Nende miinimumnõuete kindlaks määramiseks kasutage järgmist graafikut ja tabelit.

MÄRKUS

Kui minimaalse põrandapinna nõuet ei saa täita, võtke ühendust edasimüüjaga.

Lisateavet jahutusvahendi täitekoguse kohta leiab väliseadme paigaldusjuhendist.

Magyar

R32 Hűtőközegkör

A készülék telepítésének és a hűtőközeg csővezetékeinek meg kell felelniük a tervezett hűtőközegre vonatkozó helyi és nemzeti szabályozásoknak.

Az R32 hűtőközegből adódóan és a betöltött hűtőközeg végleges mennyiségétől függően minimális telepítési alapterülettel kell számolni.

- Ha a betöltött hűtőközeg összmennyisége <1,84 kg, akkor nincs további minimális alapterület-követelmény.
- Ha a betöltött hűtőközeg összmennyisége ≥1,84 kg, akkor további minimális alapterület-követelményeket kell szem előtt tartani.

◆ Minimális alapterület-követelmények

Ha a betöltött hűtőközeg összmennyisége ≥1,84 kg, a készüléket a minimálisnál nagyobb alapterületű helyiségben kell telepíteni, üzemeltetni és tárolni. Ezeket a minimális követelményeket az alábbi ábra és táblázat segítségével kell meghatározni.

MEGJEGYZÉS

Ha a helyiség területe a minimális alapterületnél kisebb, forduljon a forgalmazóhoz.

A hűtőközeg mennyiségére vonatkozó további információkért lásd a kültéri egység Telepítési útmutatóját.

Latviešu

R32 Aukstumaģenta kontūrs

Ierīces uzstādīšanai un aukstumaģenta cauruļvadiem jāatbilst attiecīgajiem vietējiem un nacionālajiem noteikumiem par projektēto aukstumaģentu.

Sakarā ar R32 aukstumaģenta daudzumu un atkarībā no aukstumaģenta galīgās uzlādes daudzuma, ir jāņem vērā minimālā grīdas platība uzstādīšanai.

- Ja kopējais aukstumaģenta uzlādes daudzums ir <1,84 kg, papildu minimālās grīdas platības prasības nav noteiktas.
- Ja kopējais aukstumaģenta uzlādes daudzums ir ≥1,84 kg, ir jāpārbauda arī papildu minimālās grīdas platības prasības.

◆ Minimālās platības prasības

Ja kopējais aukstumaģenta daudzums ir ≥1,84 kg, ierīce jāuzstāda, jādarbina un jāuzglabā telpā, kuras grīdas platība ir lielāka par minimālajiem kritērijiem. Izmantojiet šo grafiku un tabulu, lai noteiktu šos minimālos kritērijus.

PIEZĪME

Ja netiek sasniegta minimālā grīdas platība, sazinieties ar izplatītāju.

Papildinformācijai par aukstumaģenta uzlādi skatiet "Āra ierīces uzstādīšanas rokasgrāmatu".

Lietuviškai

R32 aušinimo grandinė

Elemento montavimas ir aušinimo vamzdynai turi atitikti galiojančius vietinius ir nacionalinius reikalavimus, keliamus suprojektuotai aušinimo medžiagai.

Dėl R32 aušinimo medžiagos ir priklausomai nuo galutinio aušinimo medžiagos kiekio, reikia atsižvelgti į mažiausią grindų plotą montavimui.

- Jei bendras aušinimo medžiagos užpildymo kiekis yra <1,84 kg, papildomi mažiausio grindų ploto reikalavimai nekeliami.
- Jei bendras aušinimo medžiagos užpildymo kiekis yra ≥1,84 kg, reikia patikrinti ir papildomus mažiausio grindų ploto reikalavimus.

◆ Minimalūs ploto reikalavimai

Jei bendras aušinimo medžiagos kiekis yra ≥1,84 kg, elementą reikia sumontuoti, naudoti ir laikyti patalpoje, kurios grindų plotas didesnis nei minimalūs kriterijai. Norėdami nustatyti šiuos minimalius kriterijus, naudokite toliau pateiktą grafiką ir lentelę.

PASTABA

Jei neturima mažiausio grindų ploto, susisiekite su pardavėju.

Daugiau informacijos apie aušinimo medžiagos užpildymą rasite išorinio elemento Montavimo vadove.

Polski

Obieg czynnika chłodniczego R32

Montaż jednostki i przewodów rurowych czynnika chłodniczego powinien spełniać obowiązujące w odniesieniu do niego lokalne i krajowe przepisy.

Uwzględniając zastosowanie czynnika chłodniczego R32 i łączną ilość zładu w instalacji, niezbędne jest zapewnienie minimalnej powierzchni podłogi.

- Jeżeli całkowita ilość czynnika chłodniczego <1,84 kg, przestrzeganie zaleceń dotyczących minimalnej powierzchni podłogi nie jest konieczne.
- Jeżeli całkowita ilość czynnika chłodniczego ≥1,84 kg, istnieją dodatkowe wymagania w tym zakresie, które należy uwzględnić.

◆ Minimalna wymagana powierzchnia

W przypadku całkowitej ilości czynnika chłodniczego ≥1,84 kg, instalacja oraz działanie i przechowywanie jednostki jest możliwe wyłącznie w pomieszczeniu o powierzchni podłogi zgodnej z przyjętymi minimalnymi kryteriami w tym zakresie. W oparciu o zamieszczoną poniżej tabelę i wykres można określić, czy kryteria te są spełnione.

UWAGA

W przypadku niedysponowania minimalną powierzchnią podłogi, należy skontaktować się ze sprzedawcą.

Dodatkowe informacje na temat zładu czynnika chłodniczego można znaleźć w Instrukcji instalacji jednostki zewnętrznej.

Română

Circuitul de agent frigorific R32

Instalarea unității și a conductelor de agent frigorific trebuie să respecte reglementările locale și naționale relevante pentru agentul frigorific stabilit.

Datorită folosirii agentului frigorific R32 și în funcție de cantitatea finală de agent frigorific încărcată, trebuie asigurată o suprafață de instalare minimă.

- În cazul în care cantitatea de agent frigorific încărcată <1,84 kg, nu există cerințe suplimentare de spațiu minim.
- În cazul în care cantitatea de agent frigorific încărcată ≥1,84 kg, există cerințe suplimentare de spațiu minim care trebuie verificate.

◆ Cerințe de spațiu minim

În cazul în care cantitatea de agent frigorific încărcată ≥1,84 kg, unitatea trebuie instalată, operată și depozitată într-o încăpere cu un spațiu mai mare decât cea specificată în criteriul minim. Consultați graficul și tabelul de mai jos pentru a determina acest criteriu minim.

NOTĂ

Dacă nu dispuneți de spațiul minim, contactați distribuitorul.

Pentru mai multe informații despre încărcarea agentului frigorific, consultați manualul de instalare a unității exterioare.

Русский

Контур хладагента R32

Установка блока и трубопровода хладагента должны соответствовать местным и национальным нормам для применяемого хладагента.

Принимая во внимание использование хладагента R32, и в зависимости от конечного количества хладагента для зарядки системы, необходимо учитывать минимальную площадь пола для установки.

- Если общее количество хладагента для зарядки системы <1,84 кг, то нет необходимости применять дополнительные требования к минимальной площади пола.
- Если общее количество хладагента для зарядки системы ≥1,84 кг, то следует проверить необходимость применить дополнительные требования к минимальной площади пола.

◆ Требования к минимальной площади пола

В случае если общее количество хладагента для зарядки системы ≥1,84 кг, блок следует устанавливать, эксплуатировать и хранить в помещении с площадью пола, превышающей минимальные размеры. Используйте следующий график и таблицу, чтобы определить эти минимальные размеры.

ПРИМЕЧАНИЕ

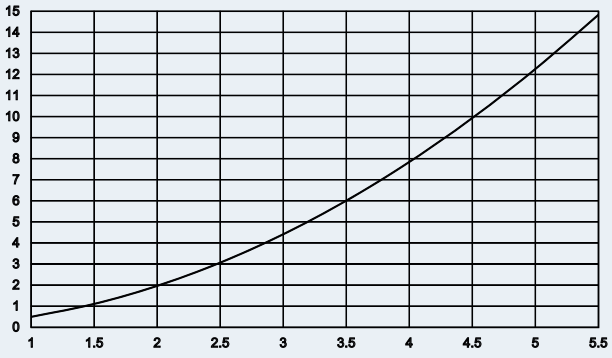
В случае не достижения минимальной площади пола, свяжитесь с вашим дилером.

Для получения дополнительной информации о зарядке системы хладагентом см. Руководство по установке наружного блока.

Refrigerant Amount Cantidad de refrigerante Quantité de frigorigène Quantità di refrigerante Quantidade de refrigerante Mængde af kølemiddel Hoeveelheid koelmiddel Mängd kylmedel Ποσότητα ψυκτικού Количество хладилен агент Množství chladiva Jahutusvahendi kogus Hűtőközeg mennyisége Aukstumaģenta daudzums Aušinimo medžiagos kiekis Ilość czynnika chłodniczego Cantitate de agent frigorific Кол-во хладагента (kg)	Minimum Area Área mínima Surface minimale Superficie minima Área mínima Mindsteareal Minimale oppervlakte Minsta yta Ελάχιστη επιφάνεια Минимална площ Minimální plocha Minimaalne pindala Minimális alapterület Minimālā platība Mažiausias plotas Minimalna powierzchnia Spațiu minim Мин. площадь пола (m^2) (h_0:2500 mm)
1.84	1.66
1.9	1.77
2.0	1.96
2.1	2.16
2.2	2.37
2.3	2.59
2.4	2.82
2.5	3.06
2.6	3.31
2.7	3.57
2.8	3.84
2.9	4.12
3.0	4.41
3.5	6.01
4.0	7.84
4.5	9.93
5.0	12.26
5.5	14.83

Minimum room area for installation
Área mínima para la instalación
Surface minimale de pièce d'installation
Superficie minima per l'installazione
Área de divisão mínima para a instalação
Mindste rumareal for installationen
Minimale oppervlakte van de kamer voor de installatie
Minsta rumsyta för installation
Ελάχιστος χώρος δωματίου για την εγκατάσταση
Минимална площ на помещението, необходима за монтажа
Minimální rozloha instalační plochy
Minimaalne ruumi pindala paigaldamiseks
A telepítéshez szükséges minimális alapterület
Minimālā telpas platība uzstādīšanai
Mažiausias patalpos plotas montavimui
Minimalna powierzchnia wymagana do instalacji
Suprafață minimă în încăpere pentru instalare
Минимальная площадь помещения для установки
(m^2) (h_0:2500 mm)

$$A_{min} = (m_c*/(2.5*LFL^{(5/4)} * h_0)^{2}$$



Total refrigerant amount in the system
Cantidad total de refrigerante en el sistema
Quantité totale de frigorigène du système
Quantità totale di refrigerante nel sistema
Quantidade de refrigerante total no sistema
Samlet mængde kølemiddel i systemet
Totale hoeveelheid koelmiddel in het systeem)
Total mängd kylmedel i systemet
Συνολική ποσότητα ψυκτικού στο σύστημα
Общо количество хладилен агент в системата
Celkové množství chladiva v systému
Kogu jahutusvahendikogus süsteemis
Hűtőközeg összmennyisége a rendszerben
Kopējais aukstumaģenta daudzums sistēmā
Visas aušinimo medžiagos kiekis sistemoje
Łączna ilość czynnika w instalacji
Cantitate totală de agent frigorific din sistem
Общее количество хладагента в системе
(kg)

GB

- A_{min}: Minimum installation area of an Indoor unit for a given refrigerant charge m_c (kg) and considering the installation height h_0 (m^2)
- h_0: Installation height of the bottom side of the indoor unit + distance from the indoor unit bottom side to the lowest part for which a refrigerant leak may release to the indoor area
- m_c: total system refrigerant charge that could be released to the indoor area in case of undetected refrigerant leak.
- LFL: Lower Flammability Limit for R32, 0,307 kg/m^3 as established by EN 378-1:2016 and ISO 817

ES

- A_{min}: área de la instalación mínima de una unidad interior para una carga de refrigerante m_c (kg) determinada y considerando la altura de instalación h_0 (m^2).
- h_0: altura de instalación del lado inferior de la unidad interior + distancia desde el lado inferior de la unidad interior hasta la parte más baja del área interior a la que se puede verter refrigerante en caso de fuga.
- m_c: carga total de refrigerante del sistema que podría verterse al área interior en caso de no detectar una fuga de refrigerante.
- LFL: Límite inferior de inflamabilidad del R32 establecido en 0,307 kg/m^3 según las normas EN 378-1:2016 e ISO 817.

DE

- A_{min}: Mindestinstallationsfläche eines Innengeräts für eine gewisse Kältemittelmenge mc (kg) und unter Berücksichtigung der Installationshöhe h_0 (m^2).
- h_0: Installationshöhe der Unterseite des Innengeräts + Abstand von der Innengeräteunterseite zum niedrigsten Teil, von dem ein Kältemittelleck zum Innenbereich auftreten kann.
- m_c: Gesamte Kältemittelmenge, die in den Innenbereich bei einem unerkannten Kältemittelleck austreten könnte.
- LFL (Lower Flammability Limit): Untere Explosionsgrenze für R32, 0,307 kg/m^3, wie durch EN 378-1:2016 und ISO 817 festgelegt.

FR

- A_{min} : Surface d'installation minimale d'une unité intérieure pour une charge de fluide frigorigène donnée m_c (kg) et en considérant une hauteur d'installation h_0 (m^2).
- h_0 : Hauteur de l'installation du côté inférieur de l'unité intérieure + distance entre le côté inférieur de l'unité intérieure et la partie la plus basse depuis laquelle une fuite du fluide frigorigène pourrait couler sur la surface intérieure.
- m_c : Charge de fluide frigorigène totale du système qui pourrait couler sur la surface intérieure en cas de fuite non détectée.
- LFL : Limite d'explosivité basse pour R32, 0,307 kg/m^3 comme définit par les normes EN 378-1:2016 et ISO 817.

IT

- A_{min}: Superficie minima di installazione di un'unità interna per una certa carica di refrigerante m_c (kg) e considerando l'altezza di installazione h_0 (m^2).
- h_0: Altezza di installazione del lato inferiore dell'unità interna + distanza dal lato inferiore dell'unità interna alla parte più bassa da cui può verificarsi una perdita di refrigerante verso l'area interna.
- m_c: Carica di refrigerante totale del sistema che potrebbe fuoriuscire nell'area interna se non vengono rilevate perdite di refrigerante.
- LFL: Limite inferiore di infiammabilità per R32, 0,307 kg/m^3 come stabilito dagli standard EN 378-1:2016 e ISO 817.

PT

- A_{min}: Área de instalação mínima para uma unidade interior com uma dada carga de refrigerante m_c (kg) e considerando a altura da instalação h_0 (m^2).
- h_0: Altura da instalação do lado inferior da unidade interior + distância do lado inferior da unidade interior para a parte mais baixa na qual pode ocorrer uma fuga de refrigerante para a área interior.
- m_c: carga total do refrigerante do sistema que pode ser libertada na área interior em caso de fuga de refrigerante não detetada.
- LFL: Limite de Inflamabilidade Baixa para R32, 0,307 kg/m^3 conforme definido pelas normas EN 378-1:2016 e ISO 817

DA

- A_{min}: Minimums-arealet for installation af en indendørsenhed med en bestemt fyldningsmængde m_c (kg) i forhold til installationshøjden h_0 (m^2)
- h_0: Installationshøjden af indendørsenhedens underside + afstand fra indendørsenhedens underside til den laveste del hvorfra, der kan slippe kølemiddel ud i indendørsområdet.
- m_c: den samlede fyldningsmængde af kølemiddel, der kan slippe ud i indendørsområdet i tilfælde af en uopdaget læk.
- LFL: Nedre brændbarhedsgrænse for R32, 0,307 kg/m^3 i henhold til EN 378-1:2016 og ISO 817.

NL

- A_{min}: Minimumvereiste oppervlakte voor de installatie van een binnenunit met een bepaalde hoeveelheid koelmiddel m_c (kg) gezien de hoogte waarop de installatie wordt uitgevoerd h_0 (m^2).
- h_0: Hoogte van de installatie van de onderkant van de binnenunit + afstand van de onderkant van de binnenunit tot de onderste kant waar het koelmiddel in het interieur mag lekken.
- m_c: totale hoeveelheid koelmiddel die vanuit het apparaat in het interieur zou kunnen lekken bij een niet-gedetecteerd koelmiddellekkage.
- LFL: Onderste ontvlambaarheidslimiet voor R32, 0,307 kg/m^3 in overeenstemming met EN 378-1:2016 en ISO 817.

SV

- A_{min}: Minsta instalaltionsområdet av en inomhusenhetet för en viss köldmediepåfyllning m_c (kg) med beaktande av installationshöjden h_0 (m^2).
- h_0: Installationshöjd från inomhusenhetens undersida + avstånd från inomhusenhetens undersida till den lägsta delen varifrån kylmedel kan läcka in i till inomhusområdet.
- m_c: Total köldmediepåfyllning från systemet som kan frigöras till inomhusenhetens område vid oupptäckt kylmedelläckage.
- LFL: Låg brännbarhetsgräns R32, 0,307 kg/m^3 såsom fastställts av EN 378-1:2016 och ISO 817.

EL

- A_{min}: Ελάχιστος χώρος εγκατάστασης μίας εσωτερικής μονάδας για μία δεδομένη πλήρωση με ψυκτικό μέσο m_c (kg) και λαμβάνοντας υπόψη το ύψος εγκατάστασης h_0 (m^2).
- h_0: Ύψος εγκατάστασης της κάτω πλευράς της εσωτερικής μονάδας + την απόσταση από την κάτω πλευρά της εσωτερικής μονάδας έως το χαμηλότερο σημείο όπου μπορεί να πραγματοποιηθεί η διαρροή ψυκτικού στον εσωτερικό χώρο.
- m_c: Συνολική πλήρωση με ψυκτικό μέσο του συστήματος που μπορεί ελευθερωθεί στον εσωτερικό χώρο σε περίπτωση που δεν ανιχνευτεί η διαρροή ψυκτικού μέσου.
- LFL: Χαμηλότερο όριο ευφλεκτότητας για R32, 0,307 kg/m^3 σύμφωνα με το EN 378-1:2016 και ISO 817

BG

- A_{min}: Минимална площ за монтаж на вътрешно тяло с известно количество хладилен заряд m_c (kg) и съобразно височината на монтажа h_0 (m^2)
- h_0: Височината на монтажа на дъното на вътрешното тяло + разстоянието от дъното на вътрешното тяло до най-ниската част, от която може да се получи теч на хладилен агент в помещението.
- m_c: общ хладилен заряд, който евентуално може да изтече в помещението в случай на незасечен теч на хладилен агент.
- LFL: Долен концентрационен предел за разпространение на пламъка за R32, 0,307 kg/m^3 съгласно определеното по EN 378-1:2016 и ISO 817.

CS

- A_{min}: Minimální instalační plocha pro vnitřní jednotku s danou náplní chladiva m_c (kg) při instalační výšce h_0 (m^2).
- h_0: Instalační výška spodní strany vnitřní jednotky + vzdálenost spodní strany vnitřní jednotky od nejnižší části, pro níž může dojít k úniku chladiva do vnitřního prostoru.
- m_c: celková náplň systémového chladiva, která může uniknout do vnitřního prostoru v případě nezaznamenaného úniku chladiva.
- LFL: Nižší mez hořlavosti (*Lower Flammability Limit*) pro R32, 0,307 kg/m^3, jak stanovuje EN 378-1:2016 a ISO 817.

ET

- A_{min}: Minimaalne paigalduspindala siseseadme jaoks konkreetse jahutusvedeliku kogusega m_c (kg) ja arvestades paigalduskõrgust h_0 (m^2).
- h_0: Paigalduskõrgus siseseadme põhjast + kaugus siseseadme põhjast kuni kõige madalma osani, kuhu võib jahutusvedelikku lekkida siseruumis.
- m_c: Kogu süsteemi jahutusvedelikukogus, mis võiks tuvastamata jahutusvedelikulekke korral vabaneda siseruumi.
- LFL: Alumine süttivuspiir R32, 0,307 kg/m^3 puhul, nagu on sätestatud standardis EN 378-1:2016 ja ISO 817.

HU

- A_{min}: A beltéri egység minimum telepítési területe egy adott m_c (kg) hűtőközeg-töltés és a h_0 (m^2) telepítési magasság mellett.
- h_0: A beltéri egység alsó részének telepítési magassága + a beltéri egység alsó része és a legalacsonyabb rész közötti távolság, ahová a hűtőközeg a beltéri területen szivároghat.
- m_c: A rendszer teljes hűtőközeg-töltése, amely nem észlelt szivárgás esetén a beltéri területbe juthat.
- LFL: Alsó gyulladási határ R32 hűtőközeg, 0,307 kg/m^3 esetében, az EN 378-1:2016 és az ISO 817 szabványban előírtak szerint.

LV

- A_{min}: Minimālais iekštelpu ierīces uzstādīšanas laukums konkrētai aukstumaģenta uzpildes masai m_c (kg) un, ņemot vērā uzstādīšanas augstumu h_0 (m^2).
- h_0: Iekštelpu ierīces apakšējās daļas uzstādīšanas augstums + attālums no iekštelpu ierīces apakšējās puses līdz zemākajai daļai, kurā aukstaģenta noplūde var izdalīties iekštelpas zonā.
- m_c: Kopējā sistēmas aukstumaģenta uzlāde, kas var atbrīvoties iekštelpas zonā, nenoteiktas aukstumaģenta noplūdes gadījumā.
- LFL: Zemāks uzliesmošanas ierobežojums, kas paredzēts R32, 0,307 kg/m^3 kā noteikts standartā EN 378-1:2016 un ISO 817.

LT

- A_{min}: Minimalus vidinio elemento montavimo plotas nustatytam aušinimo medžiagos užpildymui m_c (kg) ir atsižvelgiant į montavimo aukštį h_0 (m^2).
- h_0: Vidinio elemento apatinės pusės montavimo aukštis + atstumas nuo vidinio elemento apatinės pusės iki žemiausios dalies, iš kurios aušinimo medžiagos nutekėjimas gali patekti į vidaus zoną.
- m_c: Bendras sistemos aušinimo medžiagos užpildymo kiekis, kuris gali patekti į vidaus zoną nenustatyto aušinimo medžiagos nuotėkio atveju.
- LFL: R32 žemutinė degumo riba, 0,307 kg/m^3, kaip nustatyta EN 378-1:016 ir ISO 817.

PL

- A_{min}: minimalna powierzchnia podłogi przy montażu jednostki wewnętrznej w stosunku do ilości czynnika chłodniczego m_c (kg) z uwzględnieniem wysokości montażowej h_0 (m^2).
- h_0: wysokość montażowa, licząc od dolnej części jednostki wewnętrznej + odległość między nią a najniższym punktem, który może osiągnąć, w przypadku wycieku, uwolniony do pomieszczenia czynnik chłodniczy.
- m_c: całkowita ilość czynnika chłodniczego, która może zostać uwolniona do pomieszczenia, w przypadku niewykrytego wycieku.
- LFL: dolna granica palności czynnika chłodniczego R32 (0,307 kg/m^3) według norm EN 378-1:2016 i ISO 817.

RO

- A_{min}: Suprafața minimă de instalare a unei unități interioare conținând o anumită cantitate de agent frigorific m_c (kg) și ținând seama de înălțimea de instalare h_0 (m^2).
- h_0: Înălțimea de instalare a părții de jos a unității interioare + distanța de la partea de jos a unității interioare până la partea cea mai de jos pentru care se poate produce scurgerea de agent frigorific în zona interioară.
- m_c: cantitatea totală de agent frigorific care ar putea fi eliberată în zona interioară în cazul unei scurgeri neobservate de agent frigorific.
- LFL: Limita minimă de inflamabilitate pentru R32, 0,307 kg/m^3 stabilită în EN 378-1:2016 și ISO 817.

RU

- A_{min}: Минимальная площадь установки внутреннего блока для заданного заряда хладагента m_c (kg) с учетом высоты установки h_0 (m^2).
- h_0: Высота установки нижней стороны внутреннего блока + расстояние от нижней стороны внутреннего блока до самой нижней части, при которой утечка хладагента может попасть во внутреннюю зону.
- m_c: общий объем заправки системы хладагентом, который может быть выпущен во внутреннюю зону в случае не обнаруженной утечки хладагента.
- LFL: нижний предел воспламеняемости для R32, 0,307 кг/м³ установленный EN 378-1:2016 и ISO 817.

English

DANGER

- *Check to ensure that the number of below is within 0.44kg/m3. Otherwise it may cause danger situation if the refrigerant in the outdoor unit leaks into the room where this indoor unit is installed.*

$$\frac{\text{(Total refrigerant quantity per one outdoor unit)}}{\text{(Volume of the room where this indoor unit is installed)}} \leq 0.44\text{kg/m}^3$$

For detail, refer to the technical documentation of the product and outdoor unit.

- *Make sure that the refrigerant leakage test should be performed. The refrigerant (Fluorocarbon R410A) for this unit is incombustible, non-toxic and odorless. However if the refrigerant is leaked and is contacted with fire, toxic gas will generate. Also because the fluorocarbon is heavier than air, the floor surface will be filled with it, which could cause suffocation.*
- *Use the specified non-flammable refrigerant (R410A) to the outdoor unit in the refrigerant cycle. Do not charge material other than R410A into the unit such as hydrocarbon refrigerants (propane or etc.), oxygen, flammable gases (acetylene, etc.) or poisonous gases when installing, maintaining and moving. These flammables are extremely dangerous and may cause an explosion, a fire, and injury.*

Español

PELIGRO

- *Asegúrese de que la siguiente cifra está en un margen de 0,44kg/m³. De lo contrario, podría darse una situación de peligro si se produce una fuga del refrigerante de la unidad exterior en la habitación en la que está instalada la unidad interior.*

$$\frac{\text{(Cantidad total de refrigerante por unidad exterior)}}{\text{(Volumen de la estancia en la que está instalada la unidad interior)}} \leq 0{,}44\text{kg/m}^3$$

Para obtener más detalles al respecto, consulte la documentación técnica del producto y de la unidad exterior.

- *Compruebe que se realiza la prueba de fugas de refrigerante. El refrigerante (R410A fluorocarburo) utilizado en esta unidad es incombustible, no tóxico e inodoro. Sin embargo, si se produce una fuga y entra en contacto con fuego, se generará gas tóxico. El fluorocarburo es más pesado que el aire por lo que se mantendría cerca del suelo y podría provocar asfixia.*
- *Utilice el refrigerante no inflamable específico (R410A) en el ciclo de refrigerante de la unidad exterior. No utilice productos diferentes del R410A, como hidrocarburos refrigerantes (propano o similares), oxígeno, gases inflamables (acetileno o similares) o gases venenosos cuando instale, mantenga o traslade la unidad. Estos productos inflamables son muy peligrosos y pueden causar explosiones, incendios o lesiones.*

Deutsch

GEFAHR

- *Stellen Sie sicher, dass die nachstehende Zahl bei 0,44kg/m³ liegt. Anderenfalls kann eine Gefahrensituation entstehen, wenn Kältemittel aus dem Außengerät in den Raum gelangt, in dem dieses Innengerät eingebaut ist.*

$$\frac{\text{(Gesamt-Kältemittelmenge pro Außengerät)}}{\text{(Größe des Raums, in dem das Innengerät installiert ist)}} \leq 0{,}44\text{kg/m}^3$$

Weitere Einzelheiten finden Sie in der technischen Dokumentation des Produkts und Außengeräte.

- *Stellen Sie sicher, dass der Kältemittellecktest durchgeführt wird. Das Kältemittel (Fluorkohlenstoff R410A) für dieses Gerät ist nicht brennbar, ungiftig und geruchslos. Wenn das Kältemittel allerdings austritt und mit Feuer in Kontakt gerät, wird giftiges Gas erzeugt. Da der Fluorkohlenstoff auch schwerer als Luft ist, wird die Bodenoberfläche damit gefüllt, was zum Ersticken führen kann.*
- *Verwenden Sie das spezifizierte nicht brennbare Kältemittel (R410A) zum Außengerät und im Kühlkreislauf. Füllen Sie bei der Installation, Wartung und Versetzen des Geräts keine anderen Mittel als R410A (zum Beispiel kein Kohlenwasserstoff-Kältemittel (Propangas etc.), Sauerstoff, brennbare Gase (Acetylen usw.) in das Gerät. Diese brennbaren Mittel sind extrem gefährlich und können zu einer Explosion, einem Brand und zu Verletzungen führen.*

Français

DANGER

- *Vérifiez que le nombre ci-dessous est dans la limite de 0,44kg/m³. Sinon, il existe un risque de situation dangereuse si le frigorigène de l'unité intérieure vient à fuir dans la pièce où l'unité intérieure est installée.*

$$\frac{\text{(Quantité de frigorigène totale pour chacun des GE)}}{\text{(Volume de la pièce où l'unité intérieure est installée)}} \leq 0{,}44\text{kg/m}^3$$

Pour plus de détails, reportez-vous à la documentation technique du produit et du groupe extérieur.

- *Assurez-vous que l'essai d'étanchéité de frigorigène est effectué. Le frigorigène (fluorocarbone R410A) pour cette unité est un gaz incombustible, non toxique et inodore. Toutefois, si le frigorigène fuit et entre en contact avec des flammes, un gaz toxique se formera. De plus, le fluorocarbone est plus lourd que l'air, la surface au sol en sera donc chargé, ce qui pourrait provoquer un risque d'asphyxie.*
- *Utilisez le frigorigène ininflammable spécifié (R410A) pour le groupe extérieur dans le cycle frigorifique. Ne chargez pas de produits autres que du R410A dans l'unité comme des frigorigènes d'hydrocarbure (propane...), de l'oxygène, des gaz inflammables (acétylène...) ou des gaz toxiques pendant l'installation, la maintenance et le déplacement. Ces produits inflammables sont très dangereux et peuvent provoquer un risque d'explosion, d'incendie et des blessures.*

Italiano

PERICOLO

- *Accertarsi che il valore risultante dall'operazione sotto riportata sia inferiore o uguale a 0,44 kg/m³. in caso contrario potrebbero verificarsi situazioni di pericolo se il refrigerante contenuto nell'unità esterna fuoriuscisse nel locale in cui è installata l'unità interna.*

(Quantità totale di refrigerante per un'unità esterna)

≤0,44kg/m³

(Dimensioni del locale in cui questa unità interna è installata)

Per informazioni dettagliate, consultare a documentazione tecnica del prodotto e dell'unità esterna.

- *Accertarsi che sia stata svolta la prova di tenuta idraulica del refrigerante. Il refrigerante (fluorocarburo R410A) contenuto in questa unità non è infiammabile, non è tossico ed è inodore. Tuttavia, se sono presenti perdite di refrigerante e questo entra in contatto con fuoco, si genererà gas tossico. Anche perché il fluorocarburo è più pesante dell'aria, la superficie del pavimento si riempirebbe di esso, e ciò potrebbe provocare soffocamento.*
- *Usare il refrigerante non infiammabile specificato (R410A) per l'unità esterna nel ciclo di refrigerazione. Non immettere materiali diversi dall'R410A nell'unità come refrigeranti idrocarburi (propano, ecc.), ossigeno, gas infiammabili (acetilene, ecc.) o nocivi durante l'installazione, la manutenzione e la movimentazione. Questi prodotti infiammabili sono estremamente pericolosi e potrebbero causare esplosioni, incendi e lesioni.*

Português

PERIGO

- *Certifique-se de que o número abaixo está em 0,44 kg/m³. Caso contrário e se houver uma fuga de refrigerante da unidade exterior na divisão onde a unidade interior está instalada, o mesmo poderá representar um perigo.*

(Quantidade total de refrigerante por cada unidade exterior)

≤0,44kg/m³

(Volume da divisão onde está instalada a unidade interior)

Para mais detalhes, consulte a documentação técnica do produto e da unidade exterior.

- *Certifique-se de que realiza o teste de fuga de refrigerante. O refrigerante (fluorcarboneto R410A) para esta unidade é incombustível, atóxico e inodoro. Contudo, se houver uma fuga de refrigerante e se este entrar em contacto com fogo, produz-se um gás tóxico. Como o fluorcarboneto é mais pesado do que o ar, este poderá provocar asfixia se for derramado no chão.*
- *Utilize o refrigerante especificado (R410A) na unidade exterior no ciclo de refrigeração. Na instalação, manutenção e manuseamento, utilize apenas o R410A e não aplique nenhum outro tipo de material na unidade como, por exemplo, refrigerantes de hidrocarboneto (propano, etc.), oxigénio, gases inflamáveis, (acetileno, etc.) ou gases venenosos. Estes gases inflamáveis são extremamente perigosos e podem causar uma explosão, fogo ou ferimentos.*

Dansk

FARE

- *Kontrollér, at antallet herunder er inden for 0,44 kg/m3. Ellers kan det skabe en faresituation, hvis kølemidlet i udendørsenheden lækker ind i rummet, hvor indendørsenheden er installeret.*

(Samlet kølemiddelmængde for én udendørsenhed)

≤0,44kg/m³

(Volumen for rummet hvor enheden installeres.)

For yderligere oplysninger, se den tekniske dokumentation for produktet og udendørsenheden.

- *Sørg for, at der udføres en test for kølemiddellækage. Kølemidlet (fluorcarbon R410A) til denne enhed er ikke-brændbart, men ugiftigt og lugtfrit. Hvis kølemidlet imidlertid lækker og kommer i kontakt med ild, kan der dannes giftige gasser. Og fordi fluorcarbon er tungere end luft, vil gulvets overflade blive fyldt med væsken, hvilket kan forårsage kvælning.*
- *Brug det anbefalede ikke-brændbare kølemiddel (R410A) til udendørsenheden på kølekredsløbet. Påfyld ikke andre væsker end R410A på enheden, som kølemiddel med kulbrinte (propan osv.), ilt, brændbare gasser (acetylen osv.) eller giftige gasser, under installation, vedligeholdelse og flytning. Disse brændbare substanser er ekstremt farlige og kan forårsage eksplosion, brand og skade.*

Nederlands

GEVAAR

- *Controleer op het onderstaande cijfer onder de 0,44kg/m³ valt. Zo niet, dan kan dit tot gevaarlijke situaties leiden waarbij het koudemiddel vanuit de buitenunit in het vertrek waar de binnenunit is geïnstalleerd, lekt.*

(totale hoeveelheid koudemiddel per buitenunit)

≤0,44kg/m³

(volume van de kamer waarin de binnenunit is geïnstalleerd)

Meer informatie, raadpleeg de technische documentatie van het product en de buitenunit

- *Zorg ervoor dat een lekkagetest van het koelmiddelcircuit wordt uitgevoerd. Het koelmiddel (fluormethaan R410A) voor deze unit is niet-ontvlambaar, niet-giftig en geurloos. Als het koelmiddel echter lekt en in aanraking komt met vuur, dan komen giftige gassen vrij. Omdat fluormethaan zwaarder is dan lucht, vult het de kamer van onderen op, wat verstikking kan veroorzaken.*
- *Gebruik het niet-ontvlambare koelmiddel (R410A) voor het koelmiddelcyclus. Zorg ervoor dat tijdens het installeren, onderhouden en vervoeren van de unit geen andere materiaal dan R410A in de unit raakt zoals koolwaterstof (propaan etc.), zuurstof, ontvlambare gassen (acetyleen etc.) of giftige gassen. Deze ontvlambare stoffen zijn uiterst gevaarlijk en kunnen explosie, brand en verwondingen veroorzaken.*

Svenska

FARA

- *Kontrollera och se till att numret på följande ligger inom 0,44 kg/m3. Om utomhusenhetens kylmedel läcker in i rummet där inomhusenheten är installerad kan en farlig situation uppstå.*

$$\frac{\text{(Total mängd kylmedel per utomhusenhet)}}{\text{(Volym på rummet där den här inomhusenheten är installerad)}} \leq 0{,}44 \text{kg/m}^3$$

Mer information finns i den tekniska dokumentationen för produkten och utomhusenheten

- *Försäkra att ett läckagetest av kylmedium utförs. Enhetens kylmedel (flourkolgas R410A) är obrännbart, ogiftigt och luktfritt. Om kylmedium läcker ut och kommer i kontakt med eld så kan emellertid giftig gas att bildas. Eftersom flourkolgas är tyngre än luft, fyller den golvytan, vilket även kan leda till kvävning.*
- *Använd det specificerade icke brännbara kylmedlet (R410A) för utomhusenhetens kylmediecykel. Fyll inte enheten med något annat medel än R410A som exempelvis kylmedel som innehåller kolväte (propan etc.), syra, brandfarliga gaser (acetylen, etc.) eller giftiga gaser under installation, underhåll eller flyttning. Dessa gastyper är mycket farliga och kan orsaka explosion, brand eller skada.*

Ελλhnika

ΚΙΝΔΥΝΟΣ

- *Βεβαιωθείτε ότι ο χαμηλότερος αριθμός είναι εντός 0,44kg/m³. Διαφορετικά ενδέχεται να είναι επικίνδυνο αν γίνει διαρροή του ψυκτικού της εσωτερικής μονάδας μέσα στο χώρο που έχει εγκατασταθεί η εσωτερική μονάδα.*

$$\frac{\text{(Συνολική ποσότητα ψυκτικού ανά μια εξωτερική μονάδα)}}{\text{(Μέγεθος δωματίου όπου έχει εγκατασταθεί αυτή η εσωτερική μονάδα)}} \leq 0{,}44 \text{kg/m}^3$$

Για λεπτομέρειες, ανατρέξτε στο τεχνική τεκμηρίωση του προϊόντος και για την εξωτερική μονάδα.

- *Βεβαιωθείτε ότι έχετε εκτελέσει τον έλεγχο για διαρροή ψυκτικού. Το ψυκτικό (Φθοράνθρακας R410A) για αυτή τη μονάδα είναι μη εύφλεκτο, μη τοξικό και άοσμο. Ωστόσο, αν γίνει διαρροή ψυκτικού και έρθει σε επαφή με φωτιά, θα παραχθεί τοξικό αέριο. Επίσης, επειδή ο φθοράνθρακας είναι πιο βαρύς από τον αέρα, η επιφάνεια στο δάπεδο θα γεμίσει από αυτό, το οποίο μπορεί να προκαλέσει ασφυξία.*

Χρησιμοποιείστε το ειδικό μη εύφλεκτο ψυκτικό (R410A) στην εξωτερική μονάδα στον κύκλο ψύξης. Μην ρίχνετε κάποιο άλλο υλικό εκτός από το R410A στη μονάδα όπως ψυκτικά υδρογονάνθρακα (προπάνιο ή κ.λπ.), οξυγόνο, εύφλεκτα υλικά (ασετυλίνη, κ.λπ.) ή δηλητηριώδη αέρια κατά την εγκατάσταση, τη συντήρηση και την μετακίνηση. Αυτά τα εύφλεκτα υλικά είναι πολύ επικίνδυνα και μπορεί να προκαλέσουν έκρηξη, φωτιά και τραυματισμό.

Български

ОПАСНОСТ

- *Проверете, за да се уверите, че числото отдолу е в рамките на 0,44 kg/m3. Иначе може да се предизвика опасна ситуация, ако хладилният агент във външното тяло протече в помещението, където е монтирано това вътрешно тяло.*

$$\frac{\text{(Общо количество хладилен агент на едно външно тяло)}}{\text{(Обем на помещението, където е монтирано това вътрешно тяло)}} \leq 0{,}44 \text{kg/m}^3$$

За повече подробности вижте техническата документация на продукта и външното тяло.

- *Необходимо е да е сигурно, че е извършено изпитването за теч на хладилния агент. Хладилният агент (флуоровъглерод R410A) за това изделие е негорим, неотровен и без миризма. При това обаче, ако хладилният агент протече и влезе в контакт с огън, ще се получи отровен газ. Освен това, тъй като флуоровъглеродът е по-тежък от въздуха, повърхността на пода ще се запълни с него, а оттам може да настъпи задушаване.*
- *За хладилния цикъл на външното тяло се използва специален хладилен агент (R410A). При монтаж, поддържане и преместване в изделието да не се зарежда материал, различен от R410A, например въглеводородни хладилни агенти (пропан и др.), кислород, възпламеними газове (ацетилен и др.) или отровни газове. Тези леснозапалими вещества са изключително опасни, тъй като могат да предизвикат взрив, пожар и раняване.*

Čeština

NEBEZPEČÍ

- *Zkontrolujte, zda je níže uvedené číslo v rozmezí 0,44 kg/m3. V opačném případě může dojít k nebezpečné situaci, pokud chladivo ve venkovní jednotce pronikne do místnosti, kde je tato vnitřní jednotka instalována.*

$$\frac{\text{(Celkové množství chladiva na jednu venkovní jednotku)}}{\text{(Objem místnosti, kde je tato jednotka nainstalována)}} \leq 0{,}44 \text{kg/m}^3$$

Podrobnosti najdete v technické dokumentaci výrobku a venkovní jednotky

- *Ujistěte se, zda není třeba provést test úniku chladiva. Chladivo (Fluorocarbon R410A) pro tento přístroj je nehořlavé, netoxické a bez zápachu. Nicméně pokud je chladiva vytečená a je v kontaktu s požárem, vytváří toxický plyn. Také proto, že fluorovaný uhlovodík je těžší než vzduch, povrch podlahy se naplní, což může způsobit udušení.*

- *Použijte specifikované nehořlavé chladivo (R410A) na venkovní jednotku v chladicím cyklu. Nevkládejte do zařízení jiný materiál než R410A, jako jsou například chladicí kapaliny (propan nebo jiné), kyslík, hořlavé plyny (acetylen atd.) Nebo jedovaté plyny při instalaci, údržbě a pohybu. Tyto hořlaviny jsou extrémně nebezpečné a mohou způsobit výbuch, požár a zranění.*

Eesti

⚠ OHT

- *Kontrollige, et all olev arv on kuni 0,44kg/m3. Vastasel korral võib tekkida ohuolukord, kui väliseadmest lekib jahutusvedelikku ruumi, kuhu see siseseade on paigaldatud.*

$$\frac{\text{(Kogu jahutusvedelikukogus ühe väliseadme kohta)}}{\text{(Siseseadme paigaldusruumi maht)}} \leq 0{,}44\text{kg/m}^3$$

Vaadake täpsemalt järele väliseadme paigaldusjuhendist.

- *Veenduge, et jahutusvedelikulekke test on kindlasti tehtud. Selle seadme jahutusvedelik (fluorosüsivesinik R410A) on tulekindel, mittetoksiline ja lõhnatu. Kui jahutusvedelikku lekib ja see puutub kokku tulega, võib siiski tekkida toksiline gaas. Ka seetõttu, et fluorosüsivesinik on raskem kui õhk, laotub see üle kogu põrandapinna ja võib põhjustada lämbumist.*
- *Kasutage jahutussüsteemis väliseadmete spetsiaalset mittesüttivat jahutusvedelikku (R410A). Ärge laske paigaldamise, hooldustööde ja liigutamise ajal seadmesse muud materjali kui R410A, näiteks süsivesinime baasil jahutusvedelikke (propaani vms), hapnikku, tuleohtlikke gaase (atsetüleen vms) või mürgiseid gaase. Need tuleohtlikud ained on äärmiselt ohtlikud ja võivad põhjustada plahvatust, tulekahju ja vigastusi.*

Magyar

⚠ VESZÉLY

- *Győződjön meg róla, hogy az alábbiak 0,44kg/m3 értéken belül vannak. Ellenkező esetben veszélyt jelenthet, ha a kültéri egységben található hűtőközeg beszivárog abba a helyiségbe, ahová a beltéri egység be van szerelve.*

$$\frac{\text{(Összes hűtőközeg mennyiség kültéri egységenként)}}{\text{(A beltéri egységet tartalmazó helyiség térfogata)}} \leq 0{,}44\text{kg/m}^3$$

A részleteket lásd a kültéri egység Telepítési útmutatójában.

- *Biztosítsa a hűtőközeg szivárgásvizsgálatának végrehajtását. A készülékben található hűtőközeg (R410A fluorkarbon) nem gyúlékony, nem mérgező és szagtalan. Ha azonban a kiszivárgott hűtőközeg tűzzel érintkezik, mérgező gáz keletkezik. Mivel a fluorkarbon a levegőnél nehezebb, a padló szintjén felgyülemlik, és fulladást okozhat.*
- *A hűtőközeg ciklusban a kültéri egységnek megfelelő nem gyúlékony hűtőközeget (R410A) kell használni. A telepítés, karbantartás vagy mozgatás során a készülékbe az R410A-tól eltérő anyagokat, például szénhidrogén alapú hűtőközegeket (propán vagy hasonló), oxigént, gyúlékony gázokat (acetilén stb.) vagy mérgező gázokat ne töltsön. Ezek a tűzveszélyes anyagok rendkívül veszélyesek, és robbanást, tüzet és sérülést okozhatnak.*

Latviešu

⚠ BĪSTAMI

- *Pārbaudiet, lai pārliecinātos, vai zemāk esošais skaitlis ir 0,44kg/m3. Pretējā gadījumā var rasties bīstama situācija, ja dzesējošais līdzeklis no āra ierīces nokļūst telpā, kurā uzstādīta šī iekštelpu ierīce.*

$$\frac{\text{(Kopējais dzesētājvielas daudzums uz vienu āra ierīci)}}{\text{(Telpas tilpums, kurā uzstādīta šī iekštelpu ierīce)}} \leq 0{,}44\text{kg/m}^3$$

Detalizētu informāciju skatiet Āra ierīces uzstādīšanas rokasgrāmatā.

- *Nodrošiniet, lai tiktu veikts dzesēšanas šķidruma noplūdes tests. Šīs ierīces dzesētājviela (Fluorocarbon R410A) neuzliesmo, nav toksiska un neož. Tomēr, ja dzesētājviela noplūst un nonāk saskarē ar uguni, izdalās toksiskas gāzes. Arī tāpēc, ka fluorogleklis ir smagāks par gaisu un nosēžas uz grīdas virsmas, kas var izraisīt nosmakšanu.*
- *Izmantojiet norādīto neuzliesmojošu dzesētājvielu (R410A) āra ierīcei dzesēšanas cikla laikā. Uzstādīšanas, apkopes un pārvietošanas darbu laikā neuzpildiet ierīci ar tādiem materiāliem kā ogļūdeņradi saturošas dzesētājvielas (propāns vai līdzīgas), skābekli, uzliesmojošas (acetilēns, utt.) vai indīgas gāzes. Šie uzliesmojošie materiāli ir ļoti bīstami un var izraisīt sprādzienu, ugunsgrēku un traumas.*

Lietuvių

⚠ PAVOJUS

- *Įsitikinkite, kad žemiau pateiktas skaičius yra 0,44kg/m3 ribose. Priešingu atveju tai gali sukelti pavojų, jei išoriniame elemente esanti aušinimo medžiaga pateks į kambarį, kuriame šis vidinis elementas montuojamas.*

$$\frac{\text{(Bendras aušinimo medžiagos kiekis vienam išoriniam elementui)}}{\text{(Kambario, kuriame šis vidinis elementas sumontuotas tūris)}} \leq 0{,}44\text{kg/m}^3$$

Išsamesnės informacijos ieškokite išorinio elemento montavimo vadove.

- *Įsitikinkite, kad atliktas aušinimo medžiagos nuotėkio patikrinimas. Šio elemento aušinimo medžiaga (Anglies fluoridas R410A) yra nedegi, netoksiška ir bekvapė. Tačiau aušinimo medžiagai pratekėjus ir susijungus su ugnimi, susidaro nuodingos dujos. Be to, anglies fluoridas yra sunkesnis už orą, todėl jam užpildžius grindų paviršių, gali sukelti uždusimą.*
- *Išorinio elemento aušinimo ciklui naudokite nurodytą nedegią aušinimo medžiagą (R410A). Nepripilkite kitos nei R410A medžiagos, pvz., angliavandenilių aušinimo medžiagų (propano ar pan.), deguonies, degių dujų (acetileno ar pan.) ar nuodingų dujų montuodami, prižiūrėdami ir perkeldami. Šie degieji skysčiai yra labai pavojingi ir gali sukelti sprogimą, gaisrą ir sužeidimus.*

Polski

NIEBEZPIECZEŃSTWO

- *Należy upewnić się, że obliczona według poniższego wzoru wartość nie przekracza 0,44 kg/m3. W przeciwnym wypadku, ewentualny wyciek czynnika chłodniczego z instalacji do pomieszczenia, w którym zamontowano jednostkę wewnętrzną może stanowić poważne zagrożenie.*

$$\frac{\text{(Łączna ilość czynnika na jednostkę zewnętrzną)}}{\text{(Kubatura pomieszczenia, w którym zainstalowano jednostkę wewnętrzną)}} \leq 0{,}44 \text{kg/m}^3$$

Szczegółowe informacje można znaleźć w dokumentacji technicznej produktu i jednostki zewnętrznej.

- *Należy bezwzględnie przeprowadzić próbę szczelności obiegu chłodniczego. Przeznaczony do niniejszej jednostki wewnętrznej fluorowęglowodorowy czynnik chłodniczy R410A jest niepalny, nietoksyczny i bezwonny. W przypadku jednak jego wycieku w pobliżu źródeł ognia, następuje wydzielanie toksycznych gazów. Ponadto jest on cięższy od powietrza i, zalegając w dolnych partiach pomieszczenia, stanowi zagrożenie uduszeniem.*
- *W obiegu chłodniczym jednostki zewnętrznej należy stosować zalecany niepalny czynnik chłodniczy (R410A). Podczas instalacji, serwisowania lub transportu urządzenia, niedopuszczalne jest jego napełnianie innymi chłodziwami niż R410A, takimi jak czynniki chłodnicze węglowodorowe (np. propan) oraz tlen i gazy łatwopalne (acetylen itp.) lub trujące. Wszystkie te produkty są niezwykle niebezpieczne i stanowią zagrożenie wybuchem i pożarem oraz mogą spowodować poważne obrażenia.*

Română

PERICOL

- *Verificați pentru a vă asigura că numărul de mai jos este în limita a 0,44kg/m3. În caz contrar poate apărea un pericol dacă agentul frigorific din unitatea exterioară se scurge în încăperea în care este instalată această unitate interioară.*

$$\frac{\text{(Cantitatea totală de agent frigorific pe o unitate exterioară)}}{\text{(Volumul încăperii în care este instalată această unitate interioară)}} \leq 0{,}44 \text{ kg/m}^3$$

Pentru detalii, consultați documentația tehnică a produsului și a unității exterioare.

- *Asigurați-vă că se efectuează testul de scurgere a agentului frigorific. Agentul frigorific (Fluorocarbon R410A) folosit cu această unitate este necombustibil, netoxic și inodor. Totuși, dacă agentul frigorific se scurge și intră în contactat cu focul, va genera gaz toxic. De asemenea, deoarece fluorocarbonul este mai greu decât aerul, se va acumula la nivelul podelei, putând provoca sufocare.*
- *Utilizați agentul frigorific neinflamabil specificat (R410A) pentru unitatea exterioară în ciclul de agent frigorific. Nu introduceți în unitate alte substanțe decât R410A, ca de exemplu agenți frigorifici pe bază de hidrocarburi (propan sau similar), oxigen, gaze inflamabile (acetilenă etc.) sau gaze toxice în timpul instalării întreținerii și deplasării. Aceste gaze inflamabile sunt extrem de periculoase și pot provoca o explozii, incendiu și răniri.*

Русский

ОПАСНО

- *Убедитесь, что следующая цифра находится в пределах 0,44 кг/м3. В противном случае существует опасность при утечке хладагента из наружного блока в комнату, где установлен внутренний блок.*

$$\frac{\text{(Общее количество хладагента для наружного блока)}}{\text{(Объем помещения, где установлен внутренний блок)}} \leq 0{,}44 \text{ кг/м}^3$$

Для дополнительной информации см. Техническую документацию продукта и наружного блока.

- *Убедитесь в проведении испытания на утечку хладагента. Хладагент (фтороуглерод R410A), используемый в этом блоке, является негорючим, нетоксичным, без запаха. Тем не менее, при его утечке и вступлении в контакт в огнем, образуется токсичный газ. Фтороуглерод тяжелее воздуха, поэтому он собирается в нижней части помещения и может вызвать асфиксию.*
- *Используйте специальный негорючий хладагент (R410A) в цикле хладагента наружного блока. Не используйте другие продукты, отличные от R410A, хладагенты такие как пропан или аналогичные, кислород, легковоспламеняющиеся (ацетилен или аналогичные) или ядовитые газы при установке, обслуживании или перемещении устройства. Эти легковоспламеняющиеся продукты очень опасны и могут вызывать взрывы, пожары или травмы.*

EN	English	Original Version
ES	Español	Versión traducida
DE	Deutsch	Übersetzte Version
FR	Français	Version traduite
IT	Italiano	Versione tradotta
PT	Português	Versão traduzidal
DA	Dansk	Oversat version
NL	Nederlands	Vertaalde versie
SV	Svenska	Översatt version
EL	Ελληνικα	Μεταφρασμένη έκδοση

EN	English	Original Version
BG	Български	Преведена версия
CS	Čeština	Přeložená verze
ET	Eesti	Tõlgitud versioon
HU	Magyar	Lefordított változat
LV	Latviešu	Tulkotā versija
LT	Lietuvių	Versta versija
PL	Polski	Tłumaczenie wersji oryginalnej
RO	Română	Versiune tradusă
RU	Русский	Переведенная версия

EN

The English version is the original one; other languages are translated from English. Should any discrepancy occur between the English and the translated versions, the English version shall prevail.

ES

La versión en inglés es la original, y las versiones en otros idiomas son traducciones de la inglesa. En caso de discrepancias entre la versión inglesa y las versiones traducidas, prevalecerá la versión inglesa.

DE

Die englische Fassung ist das Original, und die Fassungen in anderen Sprachen werden aus dem Englischen übersetzt. Sollten die englische und die übersetzten Fassungen voneinander abweichen, so hat die englische Fassung Vorrang.

FR

La version anglaise est la version originale; les autres langues sont traduites de l’anglais. En cas de divergence entre les versions anglaise et traduite, la version anglaise prévaudra.

IT

La versione inglese è l’originale e le versioni in altre lingue sono traduzioni dall’inglese. In caso di divergenze tra la versione inglese e quelle tradotte, fa fede la versione inglese.

PT

A versão inglesa é a original; as versões em outras línguas são traduzidas do inglês. Em caso de divergência entre a versão em língua inglesa e as versões traduzidas, faz fé a versão em língua inglesa.

DA

Den engelske udgave er originalen, og udgaverne på andre sprog er oversat fra engelsk. Hvis der forekommer uoverensstemmelser mellem den engelske og den oversatte sprogudgave, vil den engelske udgave være gældende.

NL

De Engelse versie is de originele; andere talen zijn vertaald uit het Engels. In geval van verschillen tussen de Engelse versie en de vertaalde versies, heeft de Engelse versie voorrang.

SV

Den engelska versionen är originalet, och versionerna på andra språk är från engelska översättningar. I händelse av bristande överensstämmelse mellan den engelska och den översatta versionerna, skall den engelska versionen vara giltig.

EL

Η αγγλική έκδοση είναι το πρωτότυπο και οι εκδόσεις σε άλλες γλώσσες μεταφράζονται από τα αγγλικά. Σε περίπτωση που διαπιστωθούν διαφορές μεταξύ της αγγλικής και της μεταφρασμένης έκδοσης, η αγγλική έκδοση είναι επικρατέστερη.

BG

Версията на английски език е оригиналната; версиите на останалите езици са в превод от английски език. При различие между английската версия и преводна версия на друг език за меродавна се счита английската версия.

CS

Originální verze tohoto dokumentu je v angličtině; ostatní jazykové varianty jsou z angličtiny přeložené. Pokud mezi anglickou a jakoukoli jinou jazykovou verzí dojde k rozporu, bude převažovat anglická verze.

ET

Originaalversioon on ingliskeelne; teised keeled on tõlge inglise keelest. Vastuolude korral ingliskeelse ja tõlkeversioonide vahel kehtib eesõiguslikult ingliskeelne versioon.

HU

Az eredeti változat az angol; az egyéb nyelvű változatok angolról lettek fordítva. Amennyiben az angol és a fordított verziók között bármilyen eltérés mutatkozik, az angol nyelvű változat a mérvadó.

LV

Angļu valodas versija ir oriģināla; citas valodas tiek tulkotas no angļu valodas. Ja starp angļu valodu un tulkoto versiju rodas jebkādas neatbilstības, noteicošais ir angļu valodas variants.

LT

Versija anglų kalba yra originali; versijos kitomis kalbomis yra išverstos iš anglų kalbos. Jei yra neatitikimų tarp versijos anglų kalba ir verstinių versijų, pirmenybė teikiama versijai anglų kalba.

PL

Wersja angielska jest wersją oryginalną - wszystkie pozostałe stanowią jej tłumaczenie na odpowiednie języki. W przypadku stwierdzenia jakichkolwiek rozbieżności między oryginałem a jego tłumaczeniem, rozstrzygająca jest wersja w języku angielskim.

RO

Versiunea originală este cea în limba engleză; versiunile în alte limbi sunt traduse din limba engleză. Dacă există vreo discrepanță între versiunile în limba engleză și versiunea tradusă, prevalează versiunea în limba engleză.

RU

Английская версия является оригинальной; другие языки переведены с английского. В случае любого расхождения между английской и переведенной версиями, английская версия имеет преимущественную силу.

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PART I- OPERATION

1 GENERAL INFORMATION

1.1 GENERAL NOTES

No part of this publication may be reproduced, copied, filed or transmitted in any shape or form without the permission of Johnson Controls-Hitachi Air Conditioning Spain, S.A.U.

Within the policy of continuous improvement of its products, Johnson Controls-Hitachi Air Conditioning Spain, S.A.U. reserves the right to make changes at any time without prior notification and without being compelled to introducing them into products previously sold. This document may therefore have been subject to amendments during the life of the product.

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As a result, some of the images or data used to illustrate this document may not refer to specific models. No claims will be accepted based on the data, illustrations and descriptions included in this manual.

No type of modification must be made to the equipment without prior, written authorisation from the manufacturer.

1.2 PRODUCT GUIDE

1.2.1 Prior check

NOTE

Check, depending on the name of the model, the type of air conditioning system fitted, the abbreviated code and reference in this instruction manual. This Installation and Operation Manual only refers to RPC-(1.5-6.0)FSR units.

Check, in accordance with the Installation and Operating Manuals included with the outdoor and indoor units, that all the information necessary for the correct installation of the system is included. If this is not the case, please contact your distributor.

1.2.2 Classification of indoor unit models

XXX	–	XX	FS	R
Unit type (indoor unit): RPC				
	Position-separating hyphen (fixed)			
		Capacity (HP): (1.5-6.0)		
			FS: SYSTEM FREE	
				R: R32/R410A refrigerant

2 SAFETY

2.1 SYMBOLS USED

During normal air conditioning system design work or unit installation, greater attention must be paid in certain situations requiring particular care in order to avoid injuries and damage to the unit, the installation or the building or property.

Situations that jeopardise the safety of those in the surrounding area or that put the unit itself at risk will be clearly indicated in this manual.

To indicate these situations, a series of special symbols will be used to clearly identify these situations.

Pay close attention to these symbols and to the messages following them, as your safety and that of others depends on it.

DANGER

- ***The text following this symbol contains information and instructions relating directly to your safety.***
- ***Not taking these instructions into account could lead to serious, very serious or even fatal injuries to you and others.***

In the text following the danger symbol you can also find information on safe procedures during unit installation.

CAUTION

- *The text following this symbol contains information and instructions relating directly to your safety.*
- *Not taking these instructions into account could lead to minor injuries to you and others.*
- *Not taking these instructions into account could lead to unit damage.*

In the texts following the caution symbol you can also find information on safety procedures during unit installation.

NOTE

- *The text following this symbol contains information or instructions that may be of use or that require a more thorough explanation.*
- *Instructions regarding inspections to be made on unit parts or systems may also be included.*

2.2 ADDITIONAL INFORMATION ABOUT SAFETY

DANGER

- ***Hitachi is not able to foresee all the circumstances which may result in a potential danger.***
- ***Do not pour water in the indoor or outdoor unit. These products are fitted with electric components. If water comes into contact with electric components, this will cause a serious electric shock.***
- ***Do not handle or adjust the safety devices inside the indoor and outdoor units. The handling or adjustment of these devices may result in serious accident.***
- ***Do not open the service cover or access panel of the indoor and outdoor units without disconnecting the main supply.***
- ***In the event of fire, switch off the mains, put out the fire immediately and contact your service supplier.***
- ***Check that the earth cable is correctly connected.***
- ***Connect the unit to a circuit breaker of the specified capacity.***

CAUTION

- *Refrigerant leaks may hinder respiration as the gas displaces the air in the room. It is assumed that this heat pump air conditioner will be operated and serviced by English speaking people. If this is not the case, the customer should be add safety, caution and operating signs in the native language.*
- *Fit the indoor unit, the outdoor unit, the remote control and the cable at a minimum of 3 metres away from sources of strong radiation from electromagnetic waves, such as medical equipment.*
- *Do not use sprays, such as insecticides, varnishes or enamels or any other inflammable gas within a metre of the system.*
- *If the circuit breaker or supply fuse of the unit comes on frequently, stop the system and contact the service suppler.*
- *Do not carry out maintenance or inspection work yourself. This work must be carried out by qualified service personnel with suitable tools and resources for the work.*
- *Do not place any foreign material (branches, sticks, etc.) in the air inlet or outlet of the unit. These units are fitted with high speed fans and contact with any object is dangerous.*
- *This appliance must be used only by adult and capable people, having received the technical information or instructions to handle this appliance properly and safely.*
- *Children should be supervised to ensure that they do not play with the appliance.*
- *Install the unit in a place not accessible by the general public.*

NOTE

- *The air in the room should be renewed and the room ventilated every 3 or 4 hours.*
- *The system fitter and specialist shall provide anti-leak safety in accordance with local regulations.*
- *The installer and system specialist shall secure safety against the refrigerant leakage according to local regulations or standards. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378 or Japan Standard, KHKS0010.*
- *Electrical wiring must comply with national and local regulations. Contact your local authority in regards to standards, rules, regulations, etc.*

3 IMPORTANT NOTICE

This air conditioner has been designed for standard air conditioning for human beings. For use in other applications, please contact your Hitachi dealer or service contractor.

The air conditioning system should only be installed by qualified personnel, with the necessary resources, tools and equipment, who are familiar with the safety procedures required to successfully carry out the installation.

The supplementary information about the purchased products is supplied in a CD-ROM, which can be found bundled with the outdoor unit. In case that the CD-ROM is missing or it is not readable, please contact your Hitachi dealer or distributor.

PLEASE READ AND FAMILIARISE YOURSELF WITH THE MANUAL BEFORE STARTING WORK ON THE INSTALLATION OF THE AIR CONDITIONING SYSTEM. Failure to observe the instructions for installation, use and operation described in this Manual may result in operating failure including potentially serious faults, or even the destruction of the air conditioning system.

It is assumed that the air conditioning system will be installed and maintained by responsible personnel trained for the purpose. If this is not the case, the customer should include all the safety, caution and operating signs in the native language of the personnel responsible.

Do not install the unit in the following places, as this may lead to a fire, deformities, rusting or faults:

- Places where oil is present (including oil for machinery).
- Places with a high concentration of sulphurous gas, such as spas.
- Places where flammable gases may be generated or circulate.
- Places with a saline, acidic or alkaline atmosphere.

Do not install the unit in places where silicon gas is present. Any silicon gas deposited on the surface of the heat exchanger will repel water. As a result, the condensate water will splash out of the collection tray and into the electrical box. Water leaks or electrical faults may eventually be caused.

Do not install the unit in a place where the current of expelled air directly affects animals or plants as they could be adversely affected.

There are detailed information about unit installation, service space, wiring diagrams, electrical connection, refrigerant charge, in the corresponding chapter, please read the corresponding chapter carefully before starting work on the installation.

This heat pump air conditioner has been designed for the following temperatures. Operate the heat pump air conditioner within this range:

		Maximum	Minimum
Cooling operation	Indoor	30 DB	21.5 DB
	Outdoor	43 DB*	-5 DB*
Heating operation	Indoor	25 DB	17 DB
	Outdoor	15.5 WB*	-10 WB*

DB: Dry Bulb, WB: Wet Bulb (Temperature ºC)
*The temperature may change depending on the outdoor unit.

4 BEFORE OPERATION

⚠ CAUTION

- *Supply electrical power to the system for approximately 12 hours before start-up after long shutdown. Do not start the system immediately after power supply, it may cause a compressor failure, because the compressor is not heated well.*
- *Make sure that the outdoor unit is not covered with snow or ice. If covered, remove it by using hot water (approximately 50ºC). If the water temperature is higher than 50ºC, it will cause damage to plastic parts.*
- *When the system is started after a shutdown longer than approximately 3 months, it is recommended that the system be checked by your service contractor.*
- *Turn OFF the main switch when the system is stopped for a long period of time. If the main switch is not turned OFF, electricity is consumed, because the oil heater is always energized during compressor stopping.*

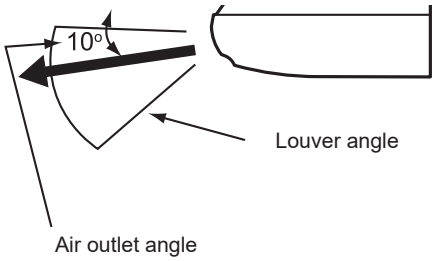
4.1 EFFICIENT USE OF INDOOR UNIT

- Do not leave a window or a door open.
  The operating efficiency will be decreased.
  It may cause dew condensation of the indoor unit. (Ventilate a room sufficiently too.)
- Attach a curtain or a blind to a window.
  Direct sunlight is prevented and the cooling efficiency will be increased.
- Do not use heating appliances during the cooling operation as possible.
  The cooling efficiency will be decreased. It may cause dew condensation and dropping dew.
- Use a circulator if warm air stays around ceiling.
  The comfortability will be increased. Contact your distributor for the detail.
- Turn OFF the main power source if the indoor unit is not used for a long time.
  If not, the standby electricity charges will have to be paid even if the indoor unit is unused.

4.2 EFFICIENT USE OF COOLING AND HEATING

COOLING

1 Air flow direction: the appropriate air outlet angle is approx. 10º. If the cooling is not sufficient, change the air flow direction.

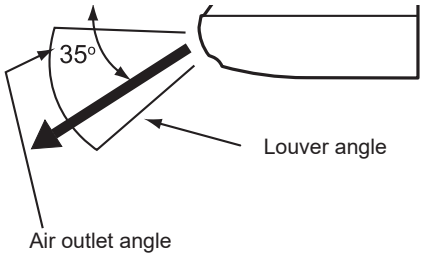


2 Air flow volume: ”MED” should be usually used. If the air flow volume is set as “HIGH”, the air flow will be spread wider than “MED”.

3 Temperature: the recommended set temperature is 27 to 29ºC. If the cooling is not sufficient, set the lower temperature.

HEATING

1 Air flow direction: the appropriate air outlet angle is approx 35º. If the heating is not sufficient, change the air flow direction.



2 Air flow volume: ”MED” should be usually used. If the air flow volume is set as “HIGH”, the air flow will be spread wider than “MED”.

3 Temperature: the recommended set temperature is 18 to 20ºC. If the heating is not sufficient, set the higher temperature.

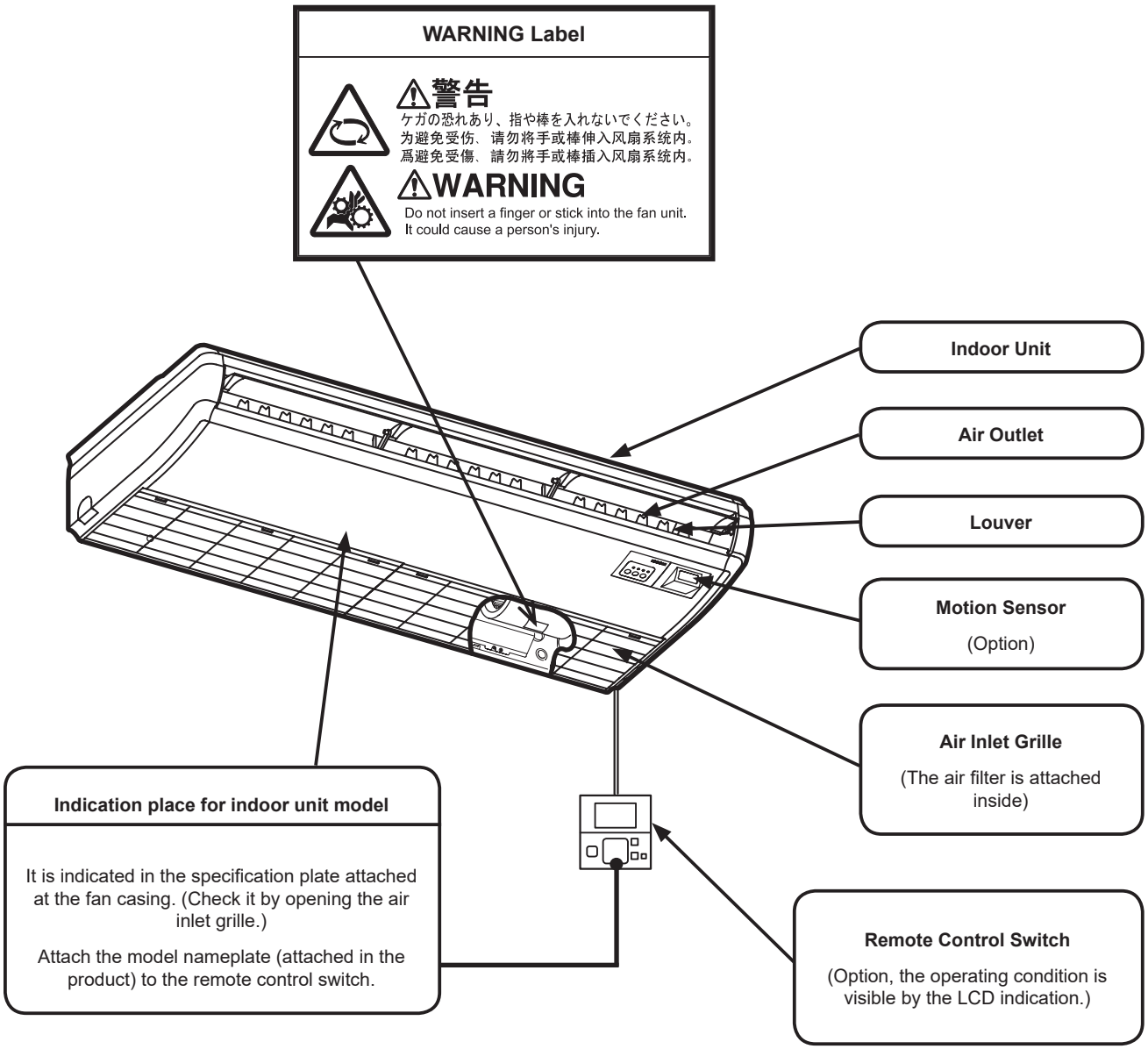
NOTE

About Multi-Split system

When the number of indoor unit or the operating mode is changed, the air outlet temperature may be changed and the indoor temperature is changed. In this case, set as follows.

- *During cooling: lower slightly the temperature setting.*
- *During heating: raise slightly the temperature setting.*

5 MAIN PARTS



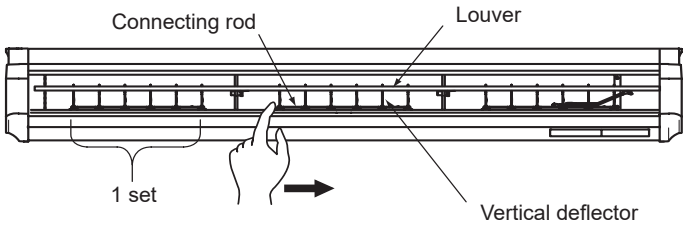
NOTE

- *Press lightly the switches to control the remote control switch.*
- *Do not press the remote control switch by sharp objects such as pen. It may cause breakage of control part.*
- *To control the indoor unit by the optional wireless remote control switch, the detail shall be referred to the installation manual of itself.*

6 AIR FLOW DIRECTION

6.1 ADJUSTING VERTICAL DEFLECTOR

The vertical deflector which consist 3 sets of deflector are connected by the connecting rod. Adjust the vertical deflectors by hand to the required direction. To adjust them, stop swinging the louver during the operation.



6.2 AUTOMATIC SETTING OF LOUVER

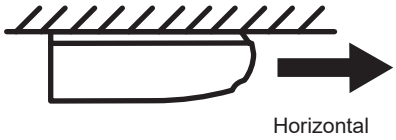
The swing louver is stopped and moved by controlling the remote control switch. When “Stop” switch is pressed from the remote control switch, the swing louver will be closed automatically and the operation is stopped.

When “RUN” switch is pressed from the remote control switch, the swing louver will be opened automatically. At this time, for cooling, dry and fan operation, the indoor unit is operated with the set temperature after the fan speed “SLOW” operation is performed for approximately 20 seconds.

6.3 SWING LOUVER DIRECTION DURING HEATING OPERATION

The louver angle is fixed horizontally during the heating operation.

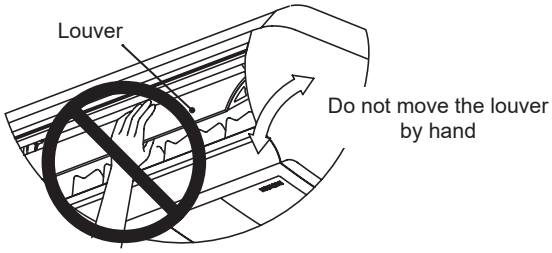
- When the heating operation starts
- When the defrost operation starts
- When thermo-controller activates



When the discharge temperature is higher than 30ºC, the louver angle is automatically returned to the setting condition.

⚠ CAUTION

Do not move the louver by hand. If moved, the louver mechanism will be damaged and the air flow direction may not be set.



7 AUTOMATIC CONTROL

The system is equipped with the following functions.

- **Three minute guard** (enforced stoppage)

  The compressor remains off for at least 3 minutes once it has stopped. If the system is started within approximately 3 minutes after it has stopped, the RUN indicator is activated. However, the cooling operation or the heating operation remains off and does not start until after 3 minutes has elapsed.

- **Three minute guard** (enforced operation)

  If all indoor units of the system are Thermo-OFF within approximately 3 minutes after compressor has started, compressor is operated during 3 minutes continuously. However, if all indoor units of the system are stopped by remote control switch, compressor is stopped.

- **Frost prevention during cooling operation**

  When the indoor unit is operated at low discharge air temperature, the cooling operation may be changed to fan operation for a while to avoid frost formation on the indoor heat exchanger.

- **Self-cleaning expansion valve**

  It is for self cleaning the expansion valve when the operation is stopped at cooling. The sound which the refrigerant flows may be heard from the indoor unit during the selfcleaning. However it is not abnormal.

- **Hot start during heating operation**

  To prevent cold air discharge in the room, the fan speed is controlled from the slow position and the low position and then to the set position according to the discharge air temperature. At this time the louver is fixed horizontally.

- **During defrosting operation**

  When the outdoor unit is performing the automatic defrosting operation, the indoor fan is stopped and the louver is fixed horizontally.

- **Cooling of indoor unit**

  When the heating operation is stopped, the indoor fan operation is maintained at the slow position for the maximum of 2 minutes to lower temperature of the inside unit.
- **Prevention of overload operation**

  When the outdoor temperature is high (approx. 21ºC) during heating operation, heating operation is stopped due to activation of the outdoor thermistor until the temperature becomes low.

NOTE

- *This air conditioner is used hot air circulation system for the heating operation. If the air conditioning room is large or the room temperature is excessively low, it takes time to warm the whole room. "HOT-ST" will be turned OFF after heating the room.*
- *"HOT-ST" may by displayed during or right after the defrosting operation. It is activated to prevent the cold draft. It is NOT abnormal.*

8 MAINTENANCE

DANGER

- *Turn OFF the power source before the maintenance work. If not, it may cause a fire or an electric shock.*
- *Perform the maintenance work with stable footing. If not, it may cause falling or injury.*

CAUTION

When the flat panel is opened (closed) or the air filter is attached (removed), perform the work according to this operation manual. If not, it may cause falling or injury.

NOTE

Do not operate the system without the air filter to protect the indoor unit heat exchanger against being clogged.

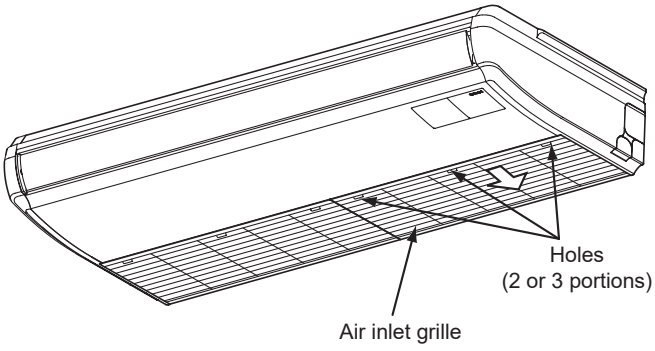
8.1 DAILY MAINTENANCE

8.1.1 Cleaning air filter

Clean the air filter when the filter sign FLTR is turned ON.

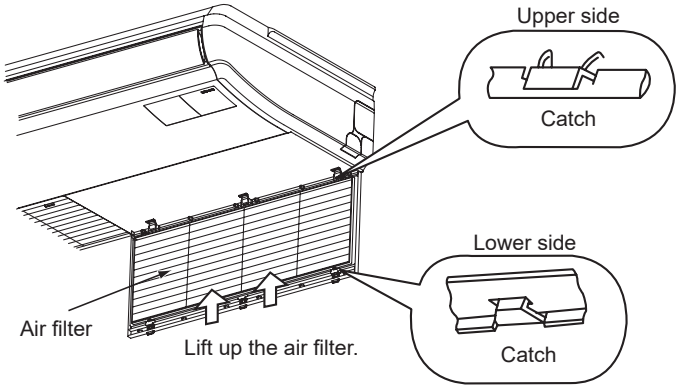
1 Open the air inlet grille.

Press and slide the cover of the air inlet grille in the direction of the arrow with fingers in the holes on the cover.



2 Remove the air filter.

Push the air filter toward arrow direction to unhook it from the air inlet grille, and remove the air filter.



3 Clean the air filter.

- Vacuum the dust by a cleaner, or wash the air filter by water or neutral detergent.
- Dry the air filter in the shade (it is to prevent the air filter from degradation by ultraviolet).

NOTE

- *Do not use hot water more than 50ºC. The air filter may be deformed by heat.*
- *Do not dry the air filter by an open fire, a dryer or a heater. The air filter may be deformed.*

4 Attach the air filter.

After the air filter is dried, correctly attach it with "FRONT" indication frontward to the indoor unit.

5 Close the air inlet grille.

NOTE

Be sure to attach the air filter. If the indoor unit is operated without the air filter, it may cause malfunction of the indoor unit.

6 Reset the filter sign.

NOTE

If the accumulated time of filter cleaning is not got to setting time, the indication "☒" is turned ON and "Setting disabled" will be displayed.

- Press "☰" (menu).

  Select "Filter sign reset" from the menu and press "OK". The confirmation screen will be displayed.
- Select "Yes" by pressing "◄" or "►" and press "OK". The indication of "FLTR" will be turned OFF and the screen will return to the normal mode.

8.1.2 Removing, attaching and cleaning air inlet grille

Wipe the air panel by a soft cloth which is soaked in lukewarm water and squeezed.

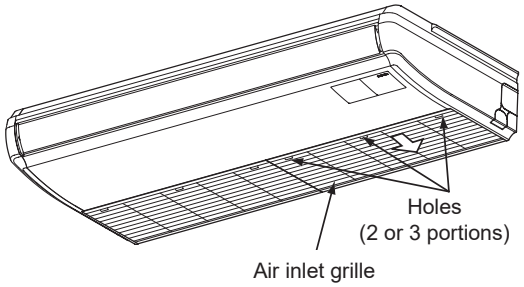
NOTE

Use a soft cloth to clean the air inlet grille and the air panel. If bengine, thinner or detergent (with surfactant) is used to clean, the resin part may be changed color or deformed. In addition, pay attention that the parts around the air outlet (louver, guide, etc.) may be damaged if an excessive force is applied.

The air inlet grille can be removed and cleaned.

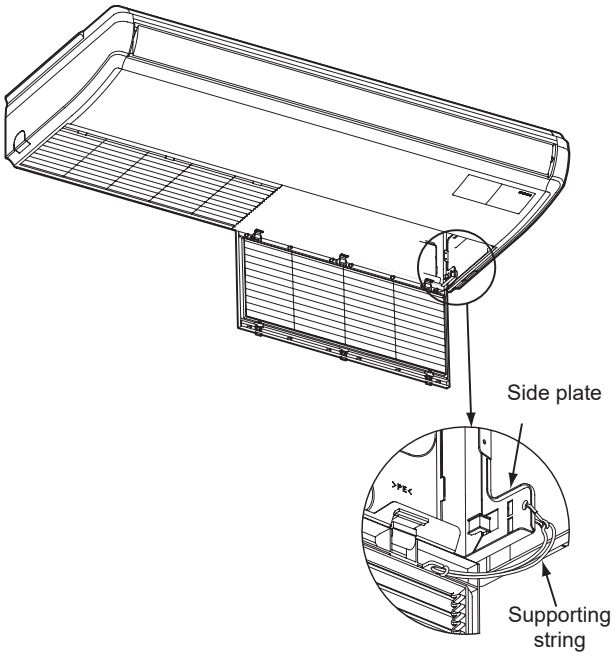
1 Open the air inlet grille.

Press and slide the cover of the air inlet grille in the direction of the arrow with fingers in the holes on the cover.

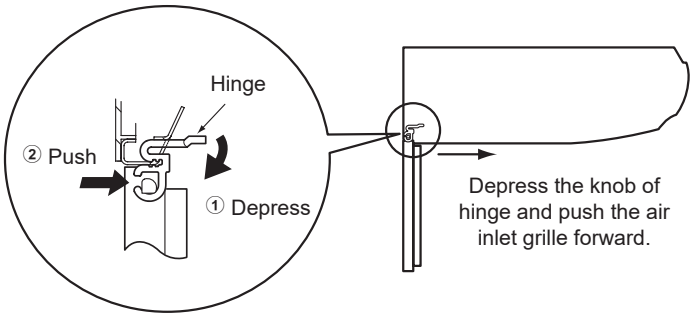


2 Remove the air inlet grille

Remove the supporting string from the side plate.



While the air inlet grille is being opened, depress the knobs of hinge (①), push the air inlet grille toward arrow direction (②) and remove the air inlet grille.



3 Clean the air inlet grille.

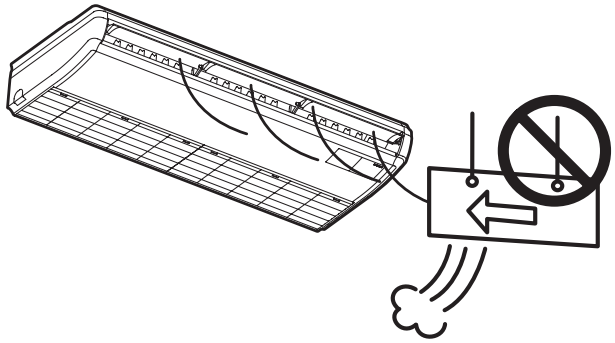
4 Attach the air inlet grille.

Attach the air inlet grille in the reverse procedure for removing. The supporting string is attached to the side plate.

8.1.3 Maintenance beginning and ending of use

◆ Beginning of use

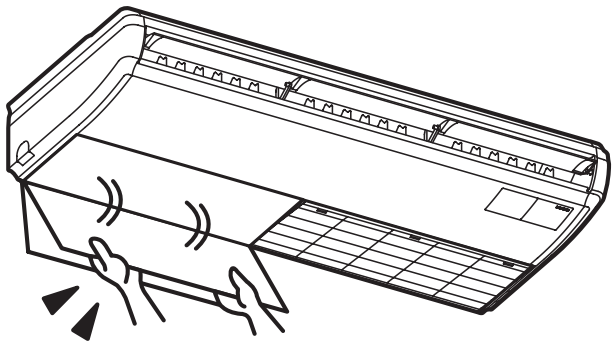
Remove obstacles for the air inlet grilles of indoor unit and outdoor unit and the air outlet.



Check that the air filter is not clogged.

◆ Ending of use

Clean the air filter, the air inlet grille and the air panel.



9 TROUBLESHOOTING

Phenomenon		Cause and action
Stopped operation	All indication lamps on the remote control switch are turned OFF.	The micro-computer is activated to protect the device from electromagnetic waves. The operation can be recovered if it is started from the beginning.
	Power failure occurs.	Start the operation from the beginning. If the instantaneous power failure is within 2 seconds, the operation is restarted automatically.
White steam from indoor unit	During the heating operation.	It may occur during the defrosting operation in the heating operation.
White smoke from indoor unit	The heating operation is begun to use.	The dust attached to the heat exchanger is dried.
Mist from indoor unit	The indoor unit is used in a restaurant or a kitchen.	Oil is attached to the fins and the heat exchange efficiency may be decreased.
	During the dry operation	It may occur when the air outlet temperature becomes lower. Raise the set temperature and the air flow volume.
	The cooling operation is performed in high humidity environment.	
	During Frost/Wash Operation	This might occur when frost is formed on the heat exchangers fins
Odor from indoor unit	The air flow from the indoor unit has odor.	It may occur because the cigarette smoke and room odor are stuck inside the indoor unit. Ventilate well by the fan mode and clean the air filter, the flat panel, the air outlet and the air inlet grille. It may be effective for odor eliminating.
Sound from indoor unit	Sound is heard when starting or stopping the operation.	It is generated because the resin parts are stretched by the temperature change and rubbed with other parts.
	Sound which water flows or is boiled is heard during the operation.	It is generated because the refrigerant flows or the drain-up mechanism drains water. Especially, sound may be heard when starting the operation or stopping the compressor (for approx. 3 minutes).
	Growling sound may be heard temporarily right after the air flow volume is changed.	It is generated because the fan motor makes temporary sound by change of fan speed.
Dew on panel	Dew condensation occurs on the panel or the cabinet or dew drops.	It may occur if the operation is performed in high humidity place (relative humidity is approx. 80%.) for a long time.
Temperature irregularity	The air flow volume from each air outlet and each air outlet temperature are irregular.	The temperature irregularity occurs because of the size of air outlet and the structure such as the location of heat exchanger.
Turned ON “HOT-START” or "Preheating" on LCD		The indications may be turned ON or flash according to the operation mode or condition.
Flashing operation mode on LCD		

Trouble		Checking point	Action
Not operated		Check that the main power source is turned ON.	Turn ON the main power source for air conditioner.
		Check that the fuse does not blow out or the circuit breaker of main power source is not tripped.	Replace the fuse or reset the circuit breaker. If the trouble recurs, contact your contractor or distributor.
Operated however, stopped soon	Cooling	Check whether the air inlet and outlet of the outdoor unit are not covered by a paper, a vinyl or other object.	Remove objects covering the air inlet and outlet.
	Heating	Check whether there are any obstacles for the air flow near the air inlet and outlet of the outdoor unit.	Remove the obstacles which prevent the air flow.
		Check whether the outlet air is short-circuited to the air inlet.	
Not cooling or heating well		Check that the operation mode is appropriate.	If the fan mode is selected, switch the operation mode to cooling (heating).
		Check that the set temperature is appropriate.	If not, change the set temperature by pressing "▲" or "▼" by the remote control switch.
		Check that the air flow direction is appropriate.	If not, change the air flow direction. In the case that the footing is not heated well during the heating operation, change the louver downward.
		Check that the air filter is not clogged.	Clean the air filter.
		Check that a window and a door are not opened.	Close the window and the door.
		Check that there are no obstacles for the air inlet and the air outlet of the outdoor unit and the indoor unit.	Remove the obstacles.

9.1 CONTACT DISTRIBUTOR

If the trouble still remains even after checking previous items or other troubles not mentioned in the previous occurs, stop using the product and contact your distributor or contractor.

⚠ CAUTION

If abnormality (burnt odor, etc.) occurs, stop the operation and turn OFF the main power source immediately. If not, it may cause breakage of the product, an electric shock or a fire. Contact your distributor or contractor.

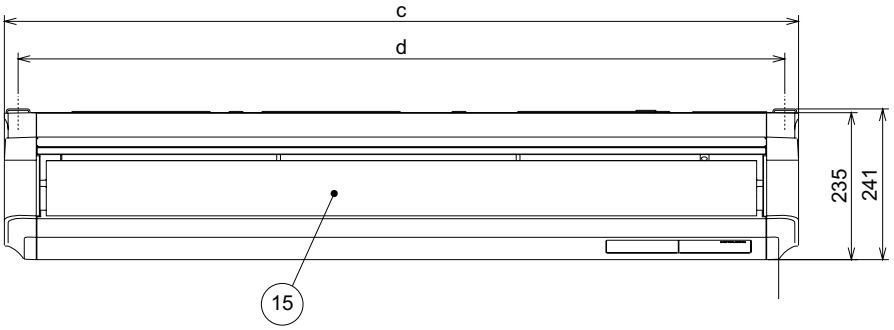
Trouble	Action before contact
The protection devices (fuse, breaker, ELB, etc) are frequently activated or the main power source switch does not work.	Turn OFF the power source.
Water leakage from indoor unit.	Stop the operation.
The RUN indicator (red) is flashing. The indoor unit number, the alarm code, the unit model code and the connected number of indoor units are displayed on LCD. In case that the plural indoor units are connected to one remote control switch, the above abnormality informations for each indoor unit are displayed one by one. Check the details on LCD and contact your distributor.	Refer the alarm code table. Contact your distributor and inform the indication detail on the remote control switch. Inform the following items to a distributor. • Unit model • Content of trouble • Alarm code number on LCD or detail of flashing indicator.

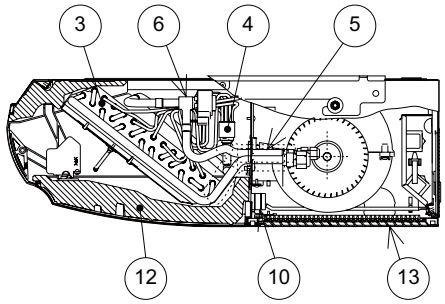
9.2 MAIN ALARM CODES

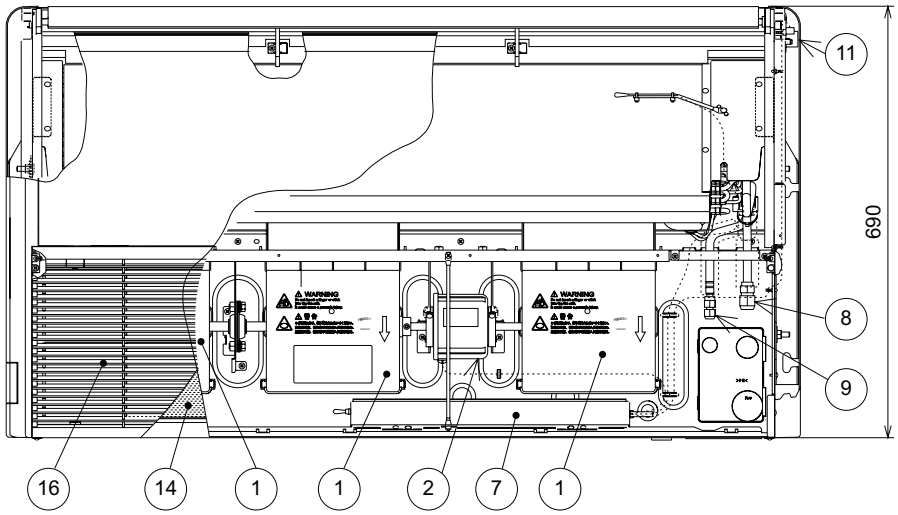
Code	Category	Content of abnormality
01	Indoor unit	Activation of protection device (float switch)
02	Outdoor unit	Activation of protection device (high pressure cut)
03	Transmission	Abnormality between indoor and outdoor
04		Abnormality between Inverter PCB and outdoor PCB
05	Supply phase	Abnormality power source phases
06	Voltage	Abnormality of voltage drop in outdoor unit
07	Cycle	Decrease in discharge gas superheat
08		Excessively high discharge gas temperature at top of compressor chamber
09	Outdoor unit	Activation of protection device for outdoor fan
11	Sensor on indoor unit	Inlet air thermistor
12		Outlet air thermistor
13		Freeze protection thermistor
14		Gas piping thermistor
19	Fan motor	Activation of the protection device for the indoor fan
20	Sensor on outdoor unit	Compressor thermistor
21		High pressure sensor
22		Outdoor air thermistor
23		Discharge gas thermistor
24		Evaporating thermistor
29		Low pressure sensor
31	System	Incorrect capacity setting of outdoor unit and indoor unit
32		Incorrect setting of other indoor unit number
35		Incorrect setting of indoor unit number
36		Incorrect of indoor unit combination
38		Abnormality of picking up circuit for protection in outdoor unit
39	Compressor	Abnormality running current at constant speed compressor
41	Pressure	Overload cooling
42		Overload heating
43	Protection device	Activation of pressure ratio decrease protection device
44		Activation of low pressure decrease protection device
45		Activation of low pressure increase protection device
46		Activation of high pressure increase protection device
47		Activation of high pressure decrease protection device
48		Activation of overcurrent protection device
51	Inverter	Abnormal inverter current sensor
52		Activation of inverter overcurrent protection
53		Activation of transistor module protection
54		Abnormality of inverter fin temperature
56	Outdoor fan	Abnormality of detection for fan motor position
57		Activation of fan controller protection
58		Abnormality of fan controller
b0	System	Incorrect setting of unit capacity
b1		Incorrect setting of unit and refrigerant cycle number
b5		Incorrect setting of indoor unit number for H-LINK type
EE	Compressor	Compressor protection alarm

PART II- INSTALLATION

10 NAME OF PARTS







Number	Part name	Number	Part name
1	Fan	9	Refrigerant liquid pipe connection
2	Fan motor	10	Drain pipe connection
3	Heat exchanger	11	Auto louver motor
4	Distributor	12	Drain pan
5	Strainer	13	Air inlet grille
6	Micro-Computer control expansion valve	14	Air filter
7	Electrical control box	15	Air outlet
8	Refrigerant gas pipe connection	16	Air inlet

Model	a	b	c	d
RPC-1.5FSR	12.7	6.35	960	916
RPC-2.0FSR	15.88	6.35	960	916
RPC-2.5FSR	15.88	9.52	1270	1226
RPC-3.0FSR	15.88	9.52	1270	1226
RPC-4.0FSR	15.88	9.52	1580	1536
RPC-5.0FSR	15.88	9.52	1580	1536
RPC-6.0FSR	15.88	9.52	1580	1536

11 BEFORE INSTALLATION

11.1 COMBINATION OF OUTDOOR UNIT AND INDOOR UNIT

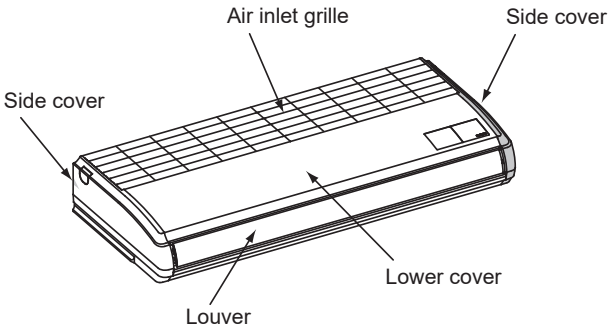
The combination capacity of indoor unit against the outdoor unit is selected by the outdoor unit capacity. Refer to the installation manual of outdoor unit and select the indoor unit and the outdoor unit to be satisfied the combination unit number and the combination unit capacity.

11.2 TRANSPORTATION AND HANDLING

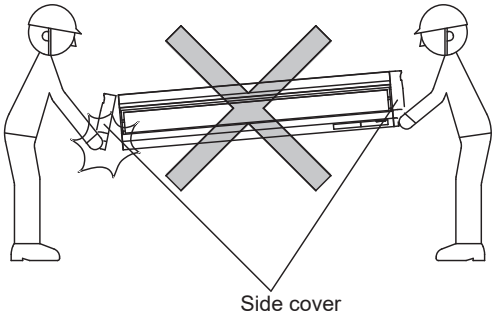
⚠ CAUTION

Do not put any material on the product. Do not step on the product.

Transport the product as close to the installation location as practical before unpacking.



Do not handle the side cover.



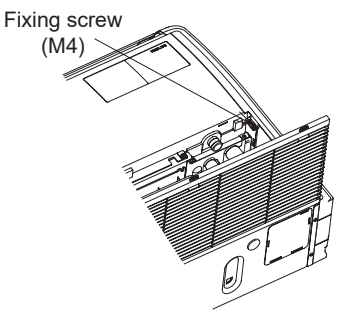
Do not put any material on the indoor unit.

Remove the side cover when the indoor unit is moved after unpacking. If not, the side cover may be damaged so that may cause injury.

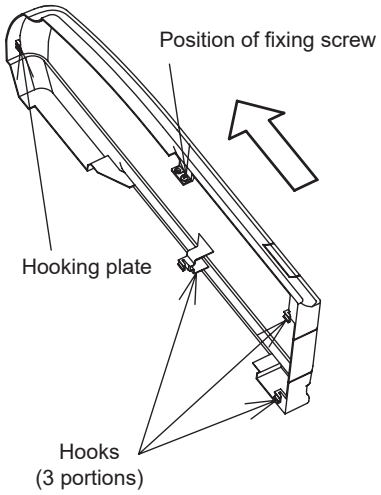
◆ Removing side cover

1 Open the air inlet grille.

2 Remove the fixing screw (M4).



3 Push the side cover forward to remove the hooks and the hooking plate.



4 Remove the side cover to lift upward.

When the indoor unit is unpacked, moved and installed, do not take the air inlet grille, louver and lower cover. Additionally, do not apply an excessive force to them. The air inlet grille, louver and lower cover are deformed or damaged.

⚠ DANGER

Do not put any foreign material into the indoor unit and check to ensure that no foreign material exists in the indoor unit before the installation and the test run. Otherwise, a fire or failure, etc. may occur.

⚠ CAUTION

- *The indoor unit covers are resin made. Do not apply an excessive force to the resin covers or make it fall.*
- *Do not move the louver by hand. If moved, the louver mechanism will be damaged.*

NOTE

To avoid damage to the resin covers, before lifting or moving the indoor unit, put a cloth on the resin covers.

12 INDOOR UNIT INSTALLATION

DANGER

- ***Do not perform installation work, refrigerant piping work, drain pumping, drain piping and electrical wiring connecting work without referring to the installation manual. If the instructions are not followed, it may result in a water leakage, an electric shock, a fire and an injury.***
- ***Do not put any foreign material into the indoor unit and check to ensure that no foreign material exists in the indoor unit before installation and the test run. Otherwise, a fire or failure, etc may occur.***
- ***Do not install the indoor unit in a flammable environment to avoid fire or an explosion.***
- ***The refrigerant used in each unit is identified on the specification label and manuals of the unit. Hitachi shall not be held liable for any failure, trouble, malfunction or accident caused by units illegally charged with refrigerants other than the specified one.***
- ***Select a sufficiently strong installation location. If not, the unit may fall down and it may lead to injuries.***
- ***Do not install the indoor unit outdoors. If installed outdoors, an electric hazard or electric leakage will occur.***
- ***This unit is exclusive non electrical heater type indoor unit. It is prohibited to install an electrical heater in the field.***
- ***Do not mix refrigerant R410A and refrigerant R32.***

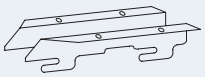
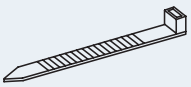
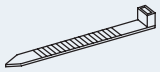
12.1 FACTORY-SUPPLIED ACCESSORIES

Check to ensure that the following accessories are packed with the indoor unit.

The hose clamp, screws, washers and cord clamps are put in the pipe insulation.

NOTE

- *If any of these accessories are not packed with the unit, please contact your contractor.*
- *The remote control switch, the branch pipes and the transition wires are optional accessories which are not included with the indoor unit.*

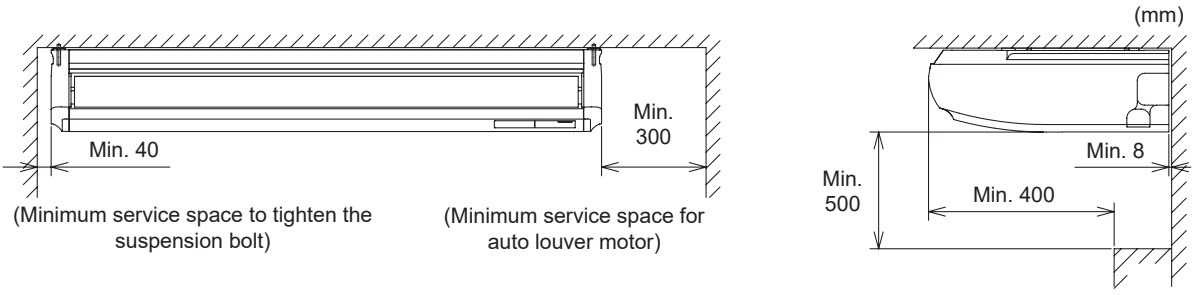
Accessory		Q'ty	Purpose
Suspension bracket		2	For mounting indoor unit
Washer		8	For suspension bracket
Pipe insulation (large)		1	For refrigerant piping connection
Pipe insulation (small)		1	
Cord clamp (large)		6	For fixing insulation
Cord clamp (small)		1	For fixing plug
Drain hose		1	For connection drain pipe
Hose clamp		2	For connecting drain hose
Insulation		2	For drain hose connection
Installation and operation manual		1	-

12.2 INITIAL CHECK

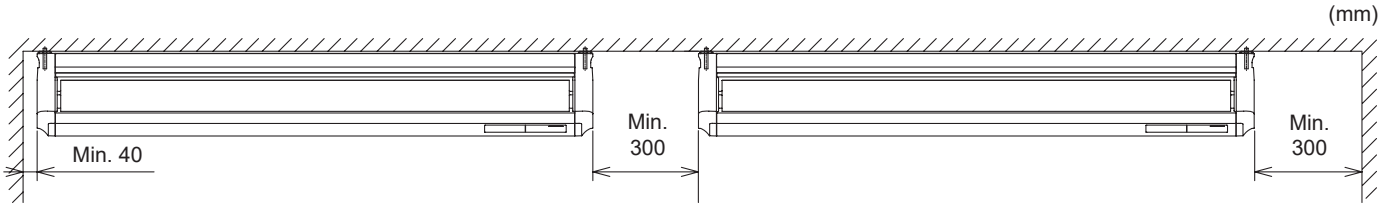
NOTE

- ***Install the indoor unit with a proper clearance around it for operation, maintenance working space and safety.***
- ***Consider the air distribution from the indoor unit to the space of the room, and select a suitable location so that uniform air temperature in the room can be obtained.***
- ***Avoid obstacles such as electric light, partition which may hamper the air inlet or the air outlet flow.***
- ***Check to ensure that the ceiling has a sufficient strength to hang the indoor unit.***
- ***Check whether the wall is vertical and flat.***
- ***Do not install the indoor unit in a machinery shop or kitchen where vapor from oil or its mist flows to the indoor unit. The oil will deposit on the heat exchanger, thereby reducing the indoor unit performance and the plastic parts may deform, and in the worst case, break due to splash oil at operation.***
- ***Avoid the installation place where the indoor unit may contact high humidity.***
- ***The warmed air may stay at the high ceiling space during the heating operation. Thus, the parallel installing of a circulator is recommended.***
- ***The indoor unit can be installed up to 3.5 meters (for 1.5 to 3HP) and 4.3 meters (for 4 to 6HP) from the floor level.***
- ***Avoid installing the air conditioning where the direct airflow blows from the air outlet to the temperature detecting devices such an alarm device or a control device. It may cause a failure of an alarm device or a control device.***

For single installation



For parallel installation

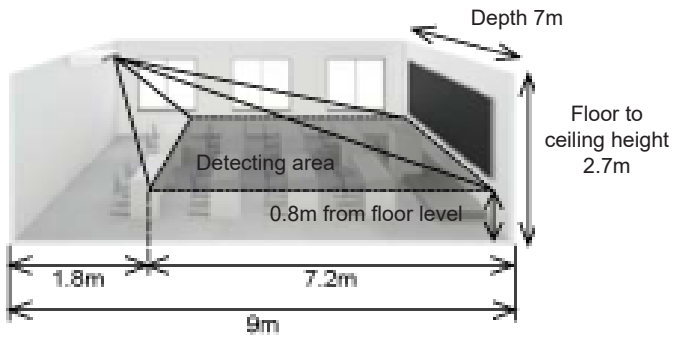


NOTE

If there is a cornice on the ceiling, measure the dimension from the front or undersurface.

- For the indoor unit with motion sensor, the detecting area for the motion sensor is shown in the figure below.

Detecting area



- Multiple Combinations: the twin combination, the triple combination and the quad combination for simultaneous operation of indoor units are installed in a same room and required to operate with equal conditions. In the case of these combination indoor unit types, if each indoor unit is partitioned by a wall, furniture or a curtain, etc, it may cause an operation failure. In addition, in the case of rearranging furniture or remodeling an interior after the installation, pay attention to effects for indoor units combination operation.
- To avoid any corrosive action to the heat exchangers, do not install the indoor unit in an acid or alkaline environment.
- The temperature and humidity inside the ceiling have the potential to exceed 30ºC/RH (Relative Humidity) 80%. Thus, apply additional insulation materials to the indoor unit external surface to avoid dew condensation.

- Pay attention to the following points when the indoor unit is installed in a hospital or other facilities where there are electronic waves from medical equipment, etc.
  - **a.** Do not install the indoor unit where the electromagnetic wave is directly radiated to the electrical box, remote control cable or remote control switch.
  - **b.** Install the indoor unit and components as far as practical or at least 3 meters from the electromagnetic wave radiator.
  - **c.** Prepare a steel box and install the remote control switch in it. Prepare a steel conduit tube and wire the remote control cable in it. Then, connect the ground wire with the box and the tube.
  - **d.** Install a noise filter when the power supply emits harmful noises.

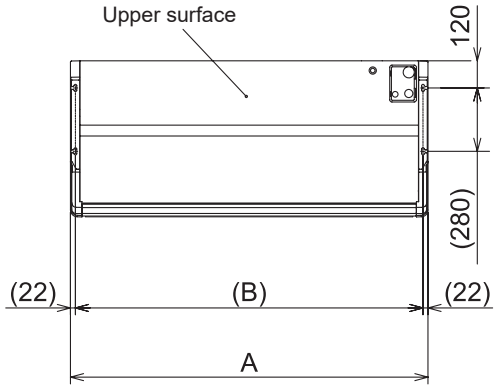
12.3 INSTALLATION

12.3.1 Position of suspension bolts

1 Determine the final location and installation direction of indoor unit with care to the space for piping and wiring.

2 After the position of indoor unit is determined, make holes in the ceiling to install the suspension bolts.

3 The position of suspension bolts is shown below.



(): Dimension for suspension bolt

HP	A	B
(1.5-2)	960	916
(2.5-3)	1270	1226
(4-6)	1580	1536

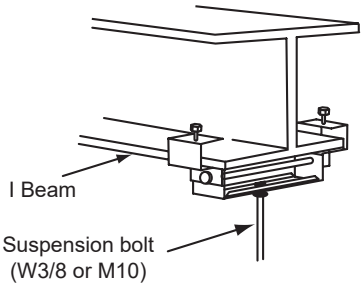
4 Ceiling Work: It is different depending on the building structure. Consult with an architect or an interior finish worker for more information. Do not install electric light units and the indoor unit to the same furring for ceiling. If installed, electric lights may flicker or vibrate by the indoor unit operation. When installing the indoor unit and electric lights, a furring for ceiling must be separated for each.

12.3.2 Installation of suspension bolts

1 The structure of suspending part shall be strong enough. The ductor facilitates suspending work.

2 Strengthen suspension bolts with support plates for the earthquake resistant depending on the needs of the quakeproof. Apply M10 of suspension bolts and support plates for the earthquake resistant. (Field-Supplied).

For steel beam

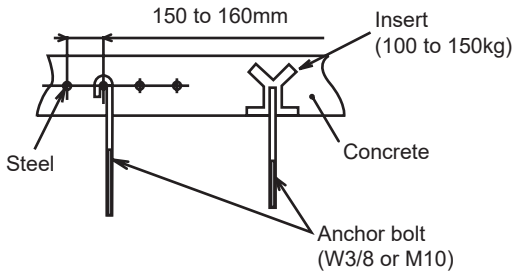


NOTE

To hang the indoor unit, a strong square lumber shall be utilized.

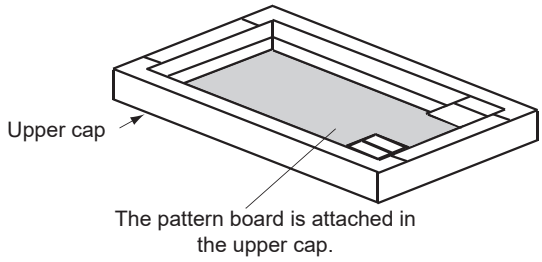
- *Span < 90cm: square Lumber larger than 6cm.*
- *Span < 180cm: square Lumber larger than 9cm.*

For concrete slab



12.3.3 Mounting indoor unit

1 Pattern Board for Installation. The pattern board for the installation is printed on the packing. When making holes in wall and ceiling, the pattern board which hole positions for suspension, refrigerant pipe and drain pipe are printed shall be used.



2 Hanging indoor unit:

- Hanging indoor unit with suspension bracket

  a. Make holes in the ceiling for suspension bolts.

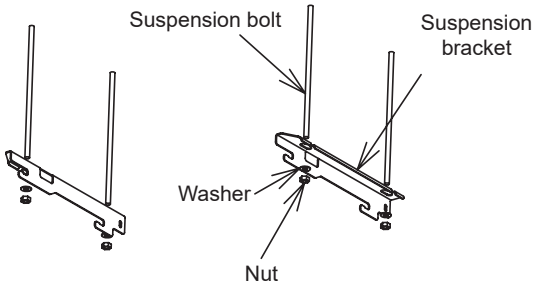
  b. Remove the side cover.

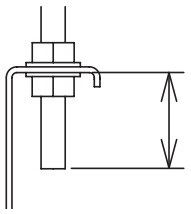
  c. Remove the suspension brackets attached to the indoor unit.

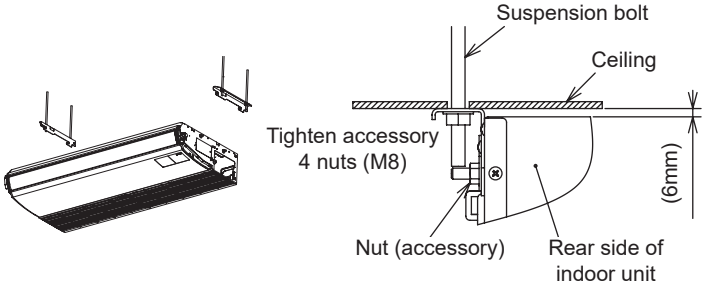
  d. Fix the suspension brackets to the suspension bolts (4 portions).

  e. Mount the indoor unit to the suspension brackets.

  f. Tighten the 4 nuts and the fixing screw for suspension bracket.







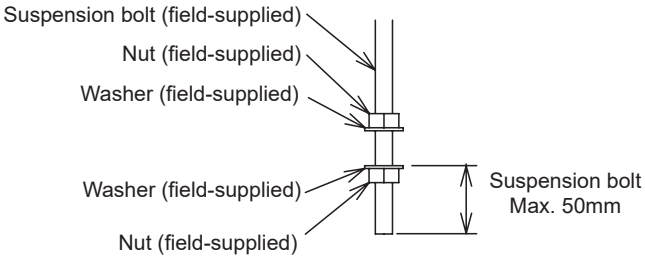
- Hanging indoor unit without suspension bracket

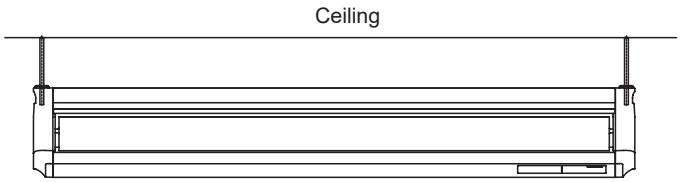
If there is not enough service space between the ceiling and the indoor unit, hang the indoor unit by method "Hanging indoor unit with suspension bracket".

a. Determine the position to install the suspension bolt.

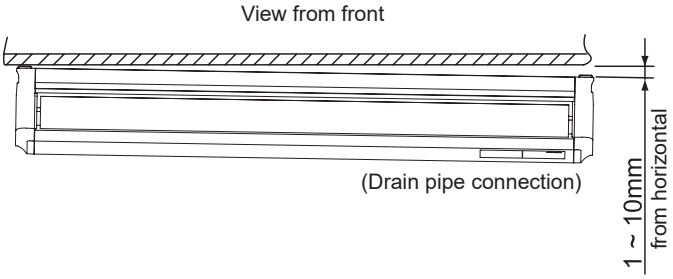
b. Fix the washer and nut to the suspension bolt.

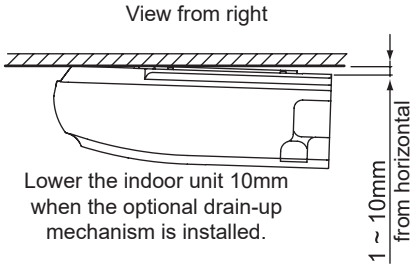
c. Mount the indoor unit to the suspension bolts.





3 When the indoor unit is mounted, create down-slope toward drain pipe connection to be well drainage. The figure shows the right drain pipe connection. (Before shipment) For the left drain pipe connection, create down-slope toward left.





NOTE

The ceiling surface may not be horizontal. When the indoor unit is mounted, check the levelness by a level to be the drain pipe connection down-slope. If the indoor unit is mounted with incorrect suspending position, it may deform and the abnormal vibration may occur.

4 Attach the side cover and the supporting string.

5 Remove the protection film attached to the louver surface.

6 Remove the protection tape attached to the air inlet filter.

13 REFRIGERANT PIPING WORK

For the refrigerant piping work, vacuum pump and refrigerant charge, the details shall be referred to Installation and Operation Manual of the outdoor unit.

13.1 PIPING MATERIALS

1 The tolerance of refrigerant piping length differs depending on the combination with the outdoor unit. The details shall be referred to Installation and Operation Manual of the outdoor unit.

2 Select the piping size from the following table.

Unit: mm

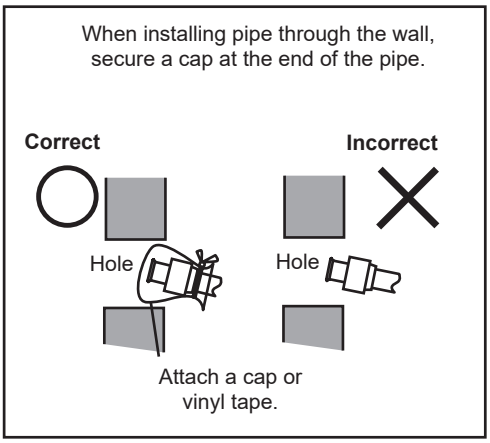
Model	Gas piping	Liquid piping
RPC-1.5FSR	Ø12.7 (1/2)	Ø6.35 (1/4)
RPC-2.0FSR	Ø15.88 (5/8)	Ø6.35 (1/4)
RPC-(2.5-6.0)FSR	Ø15.88 (5/8)	Ø9.52 (3/8)

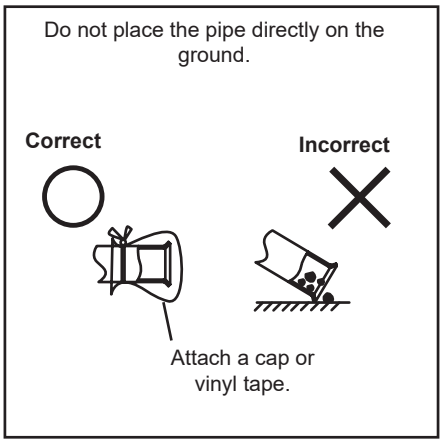
3 Prepare field-supplied copper pipes.

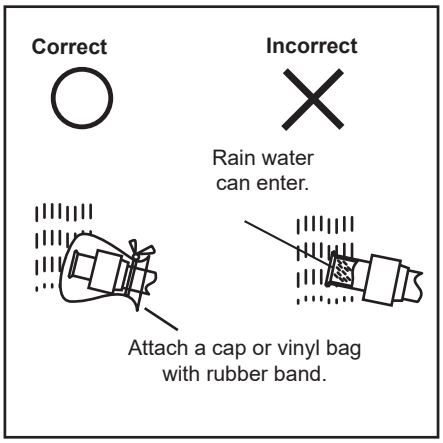
4 Select clean copper pipes. Make sure there is no dust and moisture inside.

5 As the new refrigerant (R410A) is adopted, the refrigerant oil has been also changed, which tends to be affected by foreign matters such as moisture, oxide film, fat. Perform the installation work with care not to enter moisture, dust or old refrigerant into the refrigerant cycle, otherwise the parts such as expansion valve bite foreign matter and the operation may be unavailable.

6 Use a pipe cutter to avoid a grind swarf generation for the pipe cutting work. (Do not use a saw or a grind stone to cut pipes.) Blow the inside of the pipes with nitrogen or dry air, to remove any dust or foreign materials before connecting pipes.







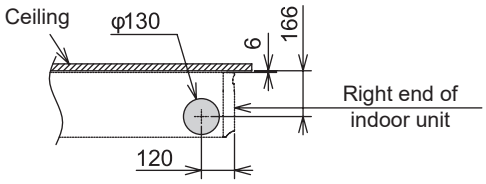
13.2 PIPING CONNECTION

13.2.1 Position of pipe connection

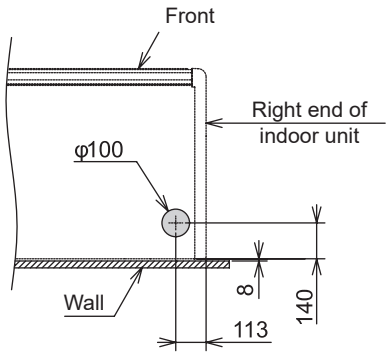
The piping connection is performed inside the indoor unit. The pipe connection can be performed from 3 directions, rear, right and upper. For rear and upper pipe connections, the plastic cap is attached at knockout hole for the refrigerant pipe and the drain pipe. Cut out the knockout hole of cap for piping and attach the cap again after running the refrigerant pipe through the cap.

Hole position and size

View from front



View from bottom

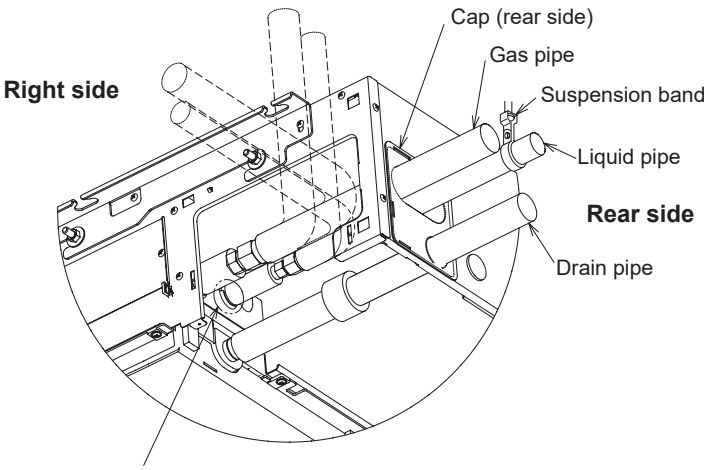


NOTE

When the optional drain-up mechanism is attached, refer to the installation manual of itself.

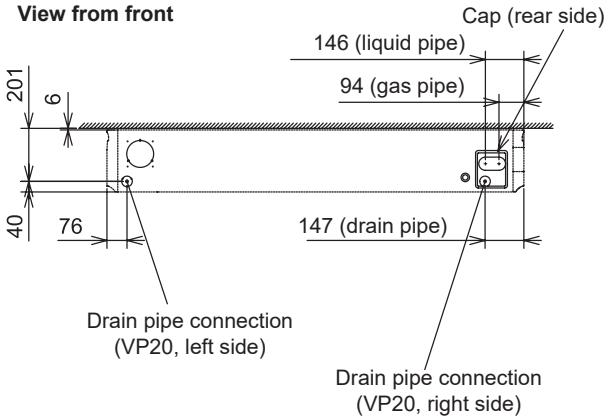
Position of pipe connection

Upper side

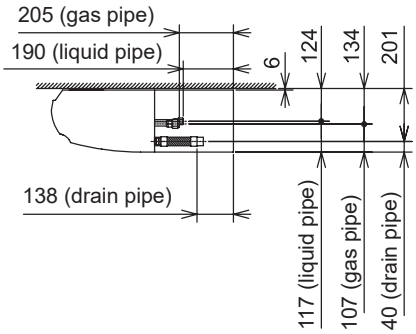


If the liquid pipe contacts strongly to the plate, noise caused by refrigerant flowing may increase. Suspend the local liquid pipe by suspension band to prevent dangling.

View from front

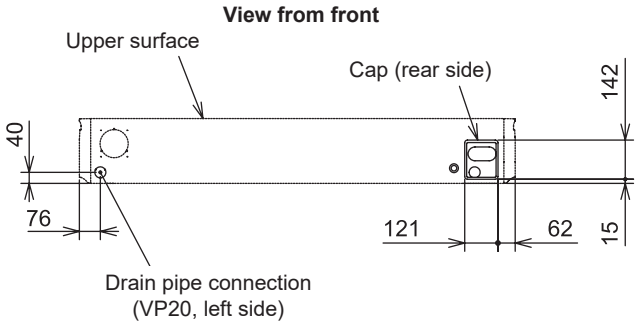


View from right



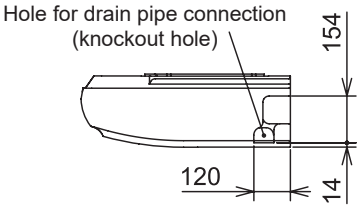
Piping from rear side

View from front



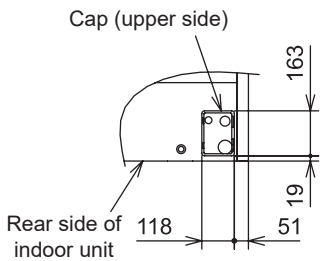
Piping from right side

View from right



Piping from upper side

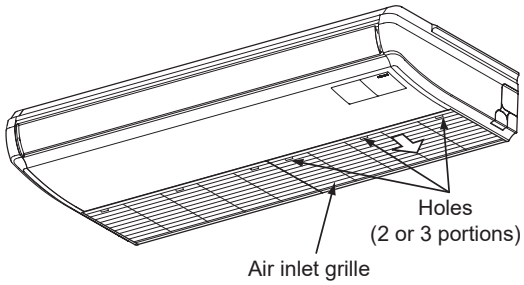
View from bottom



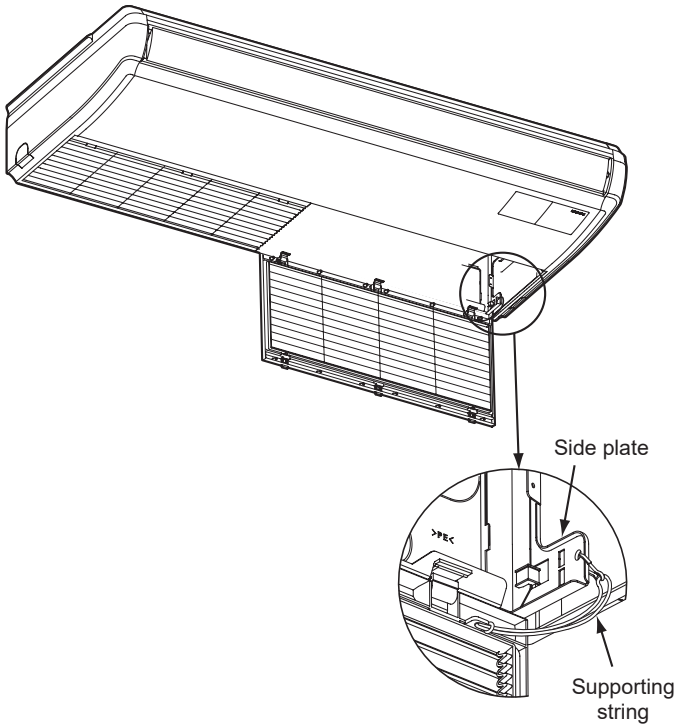
13.2.2 Piping connection

1 Open the air inlet grille.

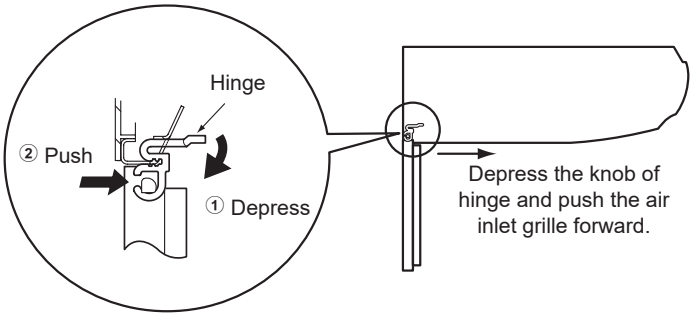
Press and slide the cover of the air inlet grille in the direction of the arrow with fingers in the holes on the cover.



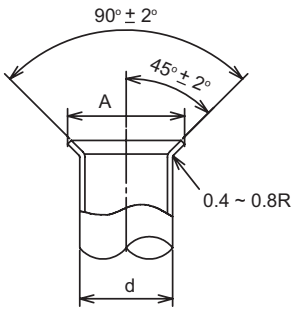
Remove the supporting string from the side plate.



While the air inlet grille is being opened, depress the knobs of hinge (①), push the air inlet grille toward arrow direction (②) and remove the air inlet grille.



2 Perform the flaring work as shown below.



mm (in.)

Diameter (Ød)	+0 A -0.4
6.35 (1/4)	9.1
9.52 (3/8)	13.2
12.7 (1/2)	16.6
15.88 (5/8)	19.7

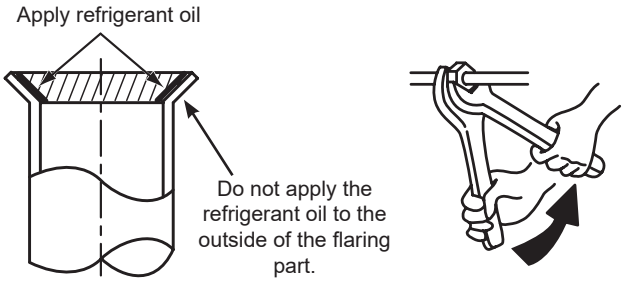
3 Use specific flare nut.

4 Check that there are no scratch, chip, deformation, gap, etc. at the flaring part.

5 Apply the refrigerant oil in a thin layer to the inside of the flaring part of the pipe before tightening the flare nut. And the flare nut must be tightened using two spanners according to the tightening torque as shown in the figure below. The tightening work will be easier if tightening the flare pipe in order of the liquid pipe, the gas pipe. Check the leakage of the refrigerant after the tightening work.

NOTE

- *If the refrigerant oil attaches to the air panel, it may cause a crack. Pay attention not to attach.*
- *Refrigerant oil is field-supplied: [Ethereal Oil FVC50K, FVC68D (Idemitsu Kousan Co. Ltd.)]*



Required tightening torque (JIS B8607)

Pipe size	Tightening torque
Ø6.35 (1/4)	14 - 18 (Nm)
Ø9.52 (3/8)	34 - 42 (Nm)
Ø12.7 (1/2)	49 - 61 (Nm)
Ø15.88 (5/8)	68 - 82 (Nm)

CAUTION

Tighten the flare nuts according to the specified torque. If not, it may cause the refrigerant leakage.

6 When on-site piping with joint such as elbow, socket is buried, provide a service access door to facilitate the check for connecting part.

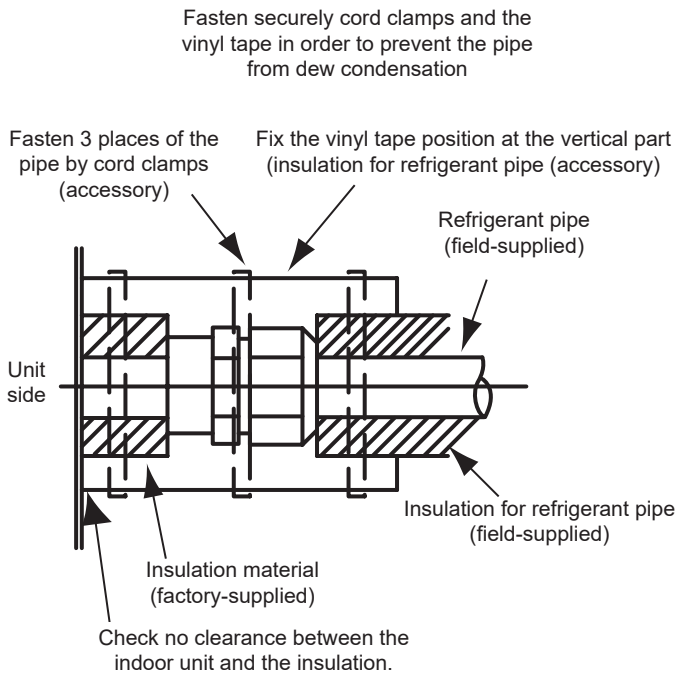
7 Perform to support for earthquake resistant to the pipes in order not to damage by an external force.

8 Do not clamp tightly the refrigerant pipe when supporting for prevention of heat stress.

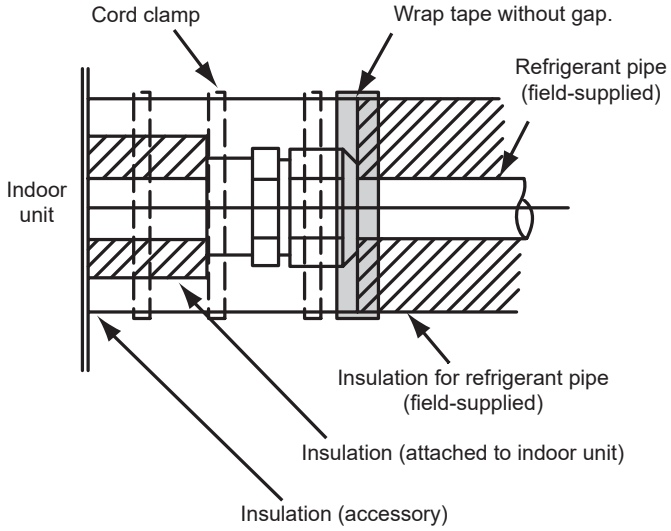
9 Do not touch the refrigerant pipes to low strength portions of walls or ceilings. If not, it may cause abnormal sound or vibration.

10 Perform the air tight test. The air tight procedures should be performed according to Installation and Operation Manual of the outdoor unit.

11 Insulate each flare connection without gap to prevent of dew condensation by using the accessory thermal insulation pipe. Additionally, insulate field gas and liquid pipings by using field-supplied thermal insulations.



12 When the thickness of insulation for gas piping is 20mm, attach the insulation moving to the indoor unit side as shown in the figure. When attaching, wrap the insulation without gap between the insulation and local piping insulation.



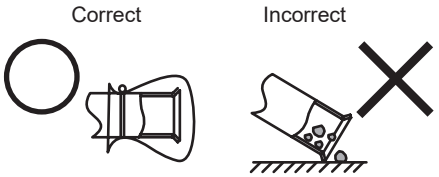
⚠ CAUTION

Do not apply excessive force to the flare nut when tightening. If applied, the flare nut may crack due to aged degradation and refrigerant leakage may occur. Use the specified tightening torque.

13 If using a forming agent (recommended Gupoflex) after installing the air panel, avoid touching the forming agent to the air panel. If the forming agent is touched to the air panel, it may cause the breakage and the falling of the air panel. In this case, completely wipe off the touched forming agent.

NOTE

- *Cap the end of the pipe when the pipe is to be inserted through a hole.*
- *Cap the end of the pipe to avoid rain or water entering.*
- *Do not put pipes on the ground directly without a cap or vinyl tape at the end of the pipe.*



14 Evacuation and refrigerant charging procedures should be performed according to Installation and Operation Manual of the outdoor unit.

14 DRAIN PIPING

Perfom the drain piping work after connecting the refrigerant pipes and attaching insulations.

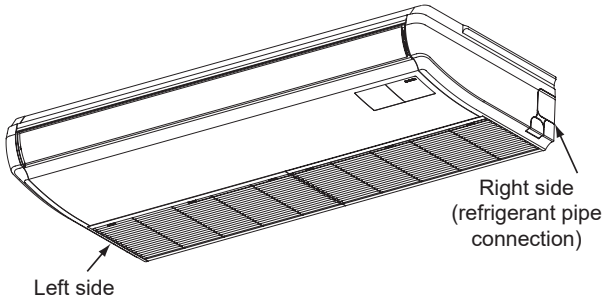
DANGER

Do not insert the drain pipe for the indoor unit to the drainage trench where corrosive gases occur. Poisonous gases flow into the room, so that may cause the poisoning.

NOTE

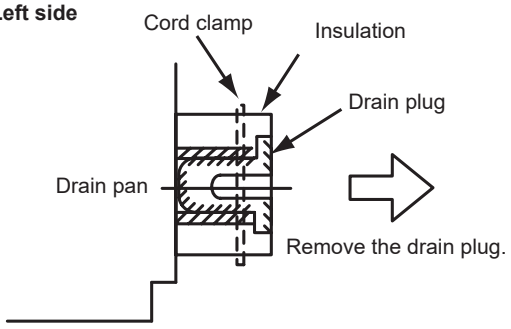
- *Do not create an upper-slope or rise for the drain piping, since drain water can flow back to the indoor unit and leakage into the room will occur when the system operation is stopped.*
- *Do not connect the drain pipe with sanitary or sewage piping or any other drainage piping.*
- *When the common drain piping is connected with other indoor units, the connected position of each indoor unit must be higher than the common piping. The pipe size of the common drain pipe must be large enough according to the unit size and number of units.*
- *After performing drain piping work and electrical wiring, check to ensure that water flows smoothly as in the following procedure.*
- *If there is excessive clearance between the drain pipe connection and the drain hose, add a sealing material between both parts in order to fit and not deform the drain hose.*

1 Connecting direction of drain pipe: the standard direction of drain piping connection is right side as viewed from front. However, it can be performed from the left side when it is required due to building construction.



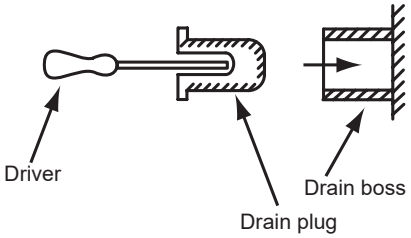
For left side drain piping

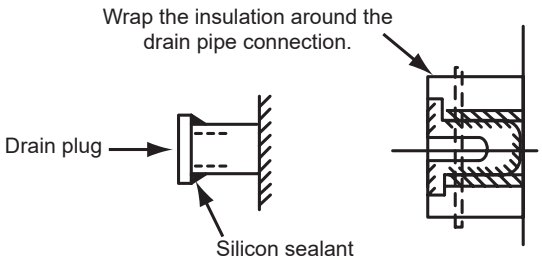
Left side



Right side

Insert the drain plug into the drain boss by using a driver.





2 Connecting drain hose.

a. Insert the hose into the hose clamp.

b. Push the drain hose onto the drain boss until the hose reaches the end of drain pan. (If the drain hose is not inserted completely, it causes water leakage.)

c. Tighten the screw for hose clamp to face the screw part downward as shown in the figure below to prevent dew drop.

d. Wrap the insulation (accessory) around the hose clamp to cover drain hose, drain pan, hose clamp without gap. (If there is gap, dew drop may occur.)

3 Connecting drain piping.

a. Prepare a polyvinyl chloride pipe with a 26mm outer diameter. (VP20 (based on JIS K6741) is recommended.)

b. When the drain hose is used, do not create rising part or twist.

c. Insulate surely the polyvinyl chloride pipe after connecting.

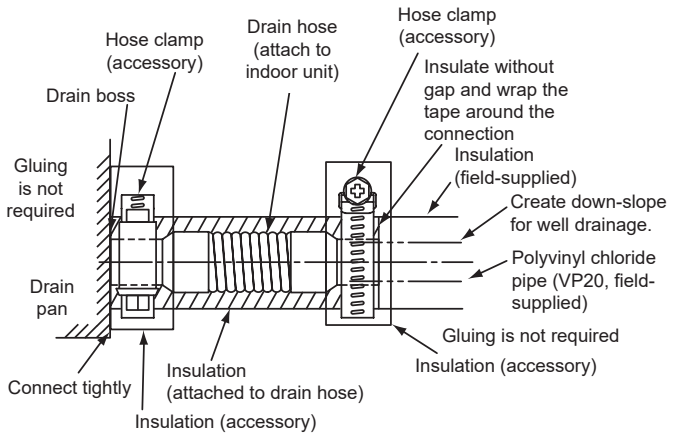
d. Tighten the hose clamp after surely inserting the polyvinyl chloride pipe.

e. The drain pipe must be performed with a down-slope pitch of 1/25 to 1/100.

f. Wrap the insulation (accessory) around the hose clamp to cover drain hose, drain pan, hose clamp without gap.

NOTE

- *Do not connect the drain pipe with sanitary or sewage piping or any other drainage piping.*
- *Do not tighten the drain pipe and the refrigerant pipe together by the hose clamp.*



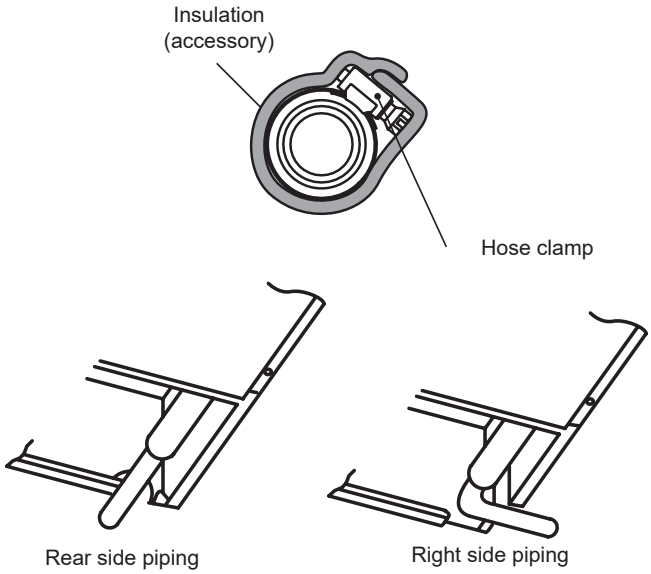
NOTE

- *Connect the field-supplied drain pipe to the drain hose by the polyvinyl chloride adhesive. Perform firmly cleaning the connection surface, applying the adhesive, inserting the pipe, retaining and curing according to the adhesive manufacturer information. The adhesive Eslon No.73 (Sekisui Chemical Co. Ltd) is recommended.*
- *Insert the drain hose completely. If not, or twisted, it will cause water leakage.*
- *Attach the hose clamp to be the screw part upward not to touch the screw part to the air filter.*
- *If the polyvinyl chloride adhesive is used to the drain boss which is ABS resin made, a crack and water leakage may occur.*
- *The tightening torque for hose clamp shall be 3.0 to 3.5Nm.*
- *If there is excessive clearance between the drain pipe connection and the drain hose, add a sealing material between both parts in order to fit and not deform the drain hose.*

4 After the drain piping work is completed, check that water flows smoothly by pouring water into the drain pan by hose.

NOTE

The optional drain-up mechanism is required when the drain piping is connected from the upper surface of indoor unit. The details shall be referred to Installation and Operation Manual of the drain-up mechanism.



CAUTION

Pay attention not to splash water to the electrical parts such as the fan motor, the float switch or thermistors.

15 ELECTRICAL WIRING

DANGER

- ***The electrical wiring work must be performed by authorized installers. If not, it may cause an electric shock or a fire.***
- ***Perform the electrical work according to each regulation of region and Installation and Operation Manual, and the dedicated electrical circuit must be used. If not performing the electrical wiring work completely or a capacity shortage of the power circuit, it will cause an electric shock or a fire.***
- ***Use the specified cables for wiring between the outdoor unit and indoor units. Selecting incorrect cables will cause an electric shock or a fire.***
- ***Install an ELB (Earth Leakage Breaker) and CB (Circuit Breaker) in the power source. Failure to do so may lead to electric shock or a fire in the event of electrical failure.***
- ***Turn OFF the main power switch of the indoor unit and the outdoor unit before an electrical wiring work or a periodical check is performed. If not, it will cause an electric shock or a fire.***
- ***Check to ensure that the indoor fan and the outdoor fan have stopped before electrical wiring work or a periodical check is performed.***
- ***Protect the wires, drain pipe, electrical parts, etc. from rats or other small animals. If not protected, rats may gnaw at unprotected parts and at the worst, a fire will occur.***
- ***Tighten screws according to the following torque.***
  M3.5: 1.2 Nm
  M4: 1.0 to 1.3 Nm
- ***Connect earth wires for the outdoor / indoor unit to prevent an electrical shock or an unexpected accident. The earth resistance must be less than 1 megohm. The earth work must be performed by authorized installers.***
- ***Turn completely OFF the power source to prevent an electrical shock when opening the service cover to perform the electrical work or the maintenance.***
- ***Pay attention not to bite electrical wirings when attaching the service cover. It may cause an electrical shock or fire.***

⚠ CAUTION

- *Wrap the accessory packing around the wires, and plug the wiring connection hole with the seal material to protect the product from any condensate water or insects.*
- *Tightly secure the wires with the cord clamp inside the indoor unit.*
- *Lead the wires through the knockout hole in the side cover when using conduit.*
- *Secure the cable of the remote control switch using the cord clamp inside the electrical box.*

NOTE

The procedure of the wiring work shall be performed according to this manual and Installation and Operation Manual of the outdoor unit.

15.1 GENERAL CHECK

1 Make sure that the field-selected electrical components (main power switches, circuit breakers, wires, conduit connectors and wire terminals) have been properly selected according to the electrical data given in “Technical Catalog”. Make sure that the components comply with National Electrical Code (NEC).

2 Use the shielded twist pair cable for the control cable between the outdoor unit and the indoor unit, the control cable between indoor units and the remote control switch cable.

3 Check to ensure that the power supply voltage is within ±10% of the rated voltage.

4 Check the capacity of the electrical wires. If the power source capacity is too low, the system cannot be started due to the voltage drop.

5 Check to ensure that the earth wire is connected.

15.2 ELECTRICAL WIRING CAPACITY

15.2.1 Field minimum wire sizes for power source

- Do not operate the system until all the check points have been cleared.

  a. Check to ensure that the electrical resistance is more than 1 megohm, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired. Check to ensure that the stop valves of the outdoor unit are fully opened, and then start the system.

  b. Check to ensure that the switch on the main power source has been ON for more than 12 hours, to warm the compressor oil by the crankcase heater.

- Do not touch any of the parts by hand at the discharge gas side, since the compressor chamber and the pipes at the discharge side are heated higher than 90ºC.

Model	Power source	Maximum current	Power source cable size	Transmitting cable size
			EN 60335-1 *1	EN 60335-1 *1
RPC-(1.5-6.0)FSR	1~ 230V 50Hz	5A	0.75mm^2	0.75mm^2

NOTE

- *Follow local codes and regulations when selecting field wires.*
- *The wire sizes marked with *1 in the above table are selected at the maximum current of the unit according to the European Standard, EN 60335-1. Use the wires which are not lighter than the ordinary tough rubber sheathed flexible cord (code designation 60245 IEC 57) or ordinary polychloroprene sheathed flexible cord (code designation 60245 IEC 57).*
- *Use a shielded cable for the transmitting circuit and connect it to ground.*
- *In the case that power cables are connected in series, add each unit maximum current and select wires below.*

Selection according to EN 60335-1	
Current i (A)	Wire size (mm^2)
i < 6	0.75
6 < i < 10	1
10 < i < 16	1.5
16 < i < 25	2.5
25 < i < 32	4
32 < i < 40	6
40 < i < 63	10
63 < i	In the case that current exceeds 63A, do not connect cables in series.

15.2.2 Harmonics

In relation to IEC 61000-3-2, the situation of harmonics for each model is as follows:

Situation of the models in relation to IEC 61000- 3-2	Model
Equipment complying with IEC61000-3-2	RPC-(1.5-3.0)FSR
Installation restrictions may be applied by supplied authorities in relation to harmonics	RPC-(4.0-6.0)FSR

15.2.3 Position of electrical wiring connection

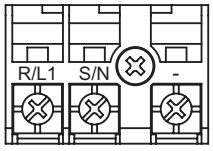
DANGER

- ***Tightly secure wirings to the terminal board according to the specified torque. If tightening the terminals is not completed, heat generation, an electric shock or a fire will occur at the terminal connection.***
- ***Make sure that the wires are securely fixed in order not to apply an external force to the terminal connections of the wirings. If fixing is not completed, heat generation or a fire will occur.***

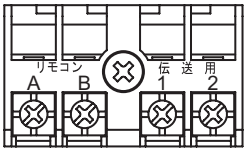
The connections at the terminal board for the indoor unit is shown in the figure below. Check the outdoor unit for the combination before the wiring work. The screws at the terminal board should be performed according to the tightening torque as shown in the table below.

	Tightening torque for terminals
M4	1.0 - 1.3 (Nm)

Terminal board for power source cable TB1 (black)



Terminal board for control cable TB2 (white)



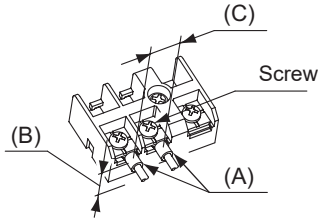
CAUTION

- *Do not connect the main power source cables to the control line (Terminals A, B, 1 and 2 of TB2). If connected, the printed circuit board (PCB) will be broken.*
- *Pay attention to followings when wires are connected to terminal board.*

  (A) Attach an insulation tape or a sleeve to each terminal.

  (B) Maintain the distance between the electrical box and the terminals to prevent a short circuit.

  (C) Maintain the distance between the terminals.



1 Connect the cable for the optional remote control switch or the optional extension cable to the terminals inside the electrical box through the connecting hole in the cabinet.

2 Connect the power supply and the earth wires to the terminals in the electrical box.

3 Connect the wires between the indoor unit and the outdoor unit to the terminals in the electrical box.

4 Connect cables correctly to match the terminal No. and the mark band.

5 Connect the transition wires between indoor units connected to the same outdoor unit.

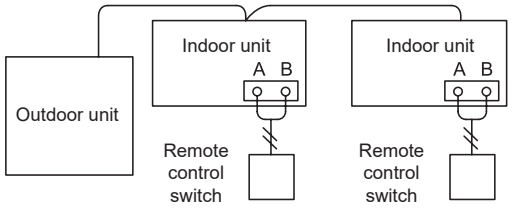
6 Do not connect the main power source cables to the control line (Terminals A, B, 1 and 2 of TB2). If connected, the printed circuit board (PCB) will be broken.

7 Tightly clamp the wires using the cord clamp inside the electrical box.

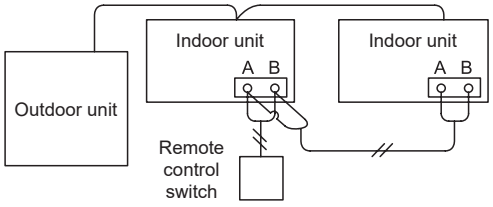
8 The wiring work for the indoor unit should be performed according to the electrical wiring diagram and Installation and Operation Manual of the outdoor unit.

9 Remote control switch connection

a. Installing remote control switch to each unit with individual operation setting.

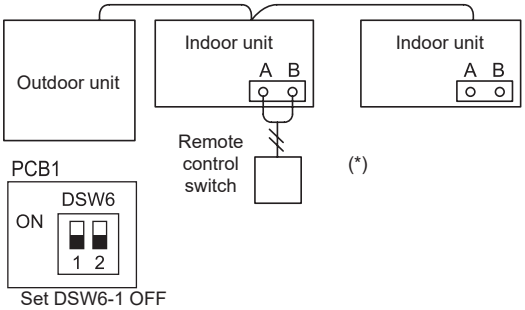


b. Installing one remote control switch with individual operation setting.



The transition wiring for the remote control switch is required.

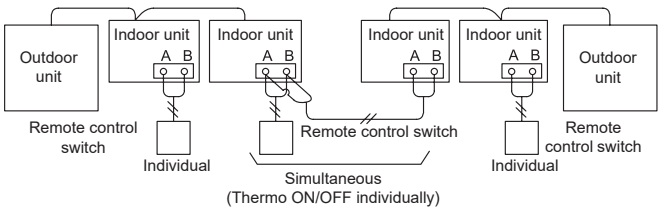
c. Simultaneous operation. The indoor unit is H-LINK II model. (For UTOPIA series only)



NOTE

(*) This indoor unit is adopted 4 steps of fan speed (HIGH 2, HIGH, MED and LOW). When installing this indoor unit with 3 steps of fan speed type, connect the remote control switch to 4 steps of fan speed type. If not, "HIGH 2" will not be indicated and can not be selected.

d. Connecting remote control switch in case of connecting between refrigerant cycles.



NOTE

- *The dip switches setting in the outdoor unit should be performed according to Installation and Operation Manual of the outdoor unit.*
- *Pay attention that the transition wiring for the remote control switch is required in the following cases:*

a The following functions are set to the sub unit which is not installed the remote control switch.
- *"Remote ON/OFF function, 1, 2 and 3" (External Input / Output Function)*
- *"Power supply ON/OFF function, 1 and 2" (Function Selection)*
- *"Prohibiting remote control after manual stoppage" (External Input / Output Function)*
- *"Group setting by the centralized controller"*

b The combination of twin, triple or quad is controlled by one remote control switch.

c The address of the indoor unit is changed from the remote control switch.

d The multiple panels with the motion sensor are controlled by one remote control switch.

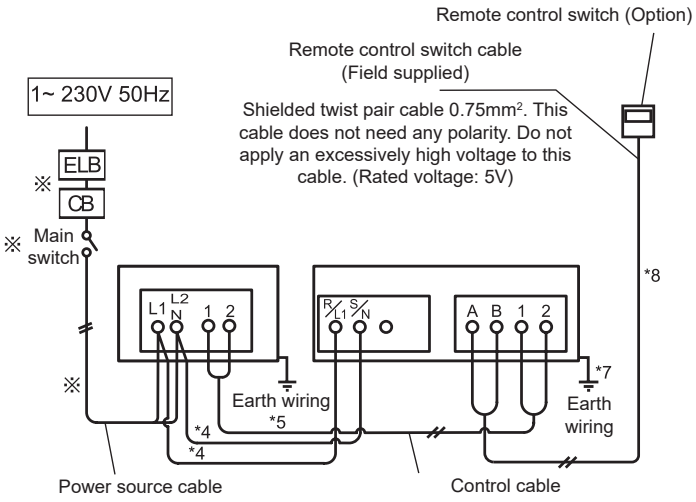
15.2.4 Details of electrical wiring connection

The electrical wiring capacity of the outdoor unit should be referred according to Installation and Operation Manual of the outdoor unit. Dip switch setting may be required depending on the combination with the outdoor unit.

◆ For UTOPIA series

Select wiring capacity according to the table. Install the ELB, CB and the main switch to each as shown in the following figures. The control cable length between the outdoor unit and the indoor unit shall be less than 75m.

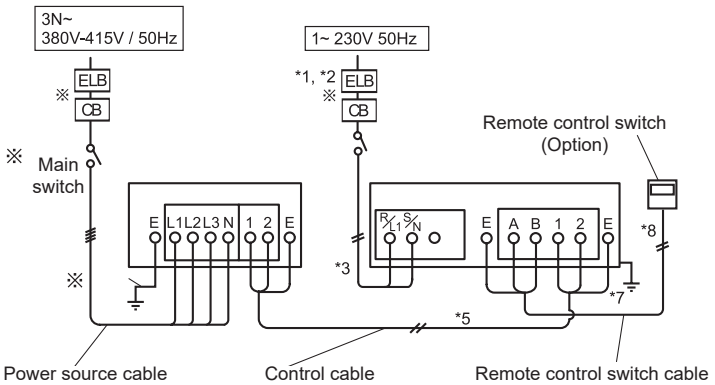
Case A



Pay attention to the phase of power source when wiring.

Shielded twist pair cable 0.75mm²
This cable does not need any polarity. Do not apply an excessively high voltage to this cable. (Rated voltage: 5V)

Case B



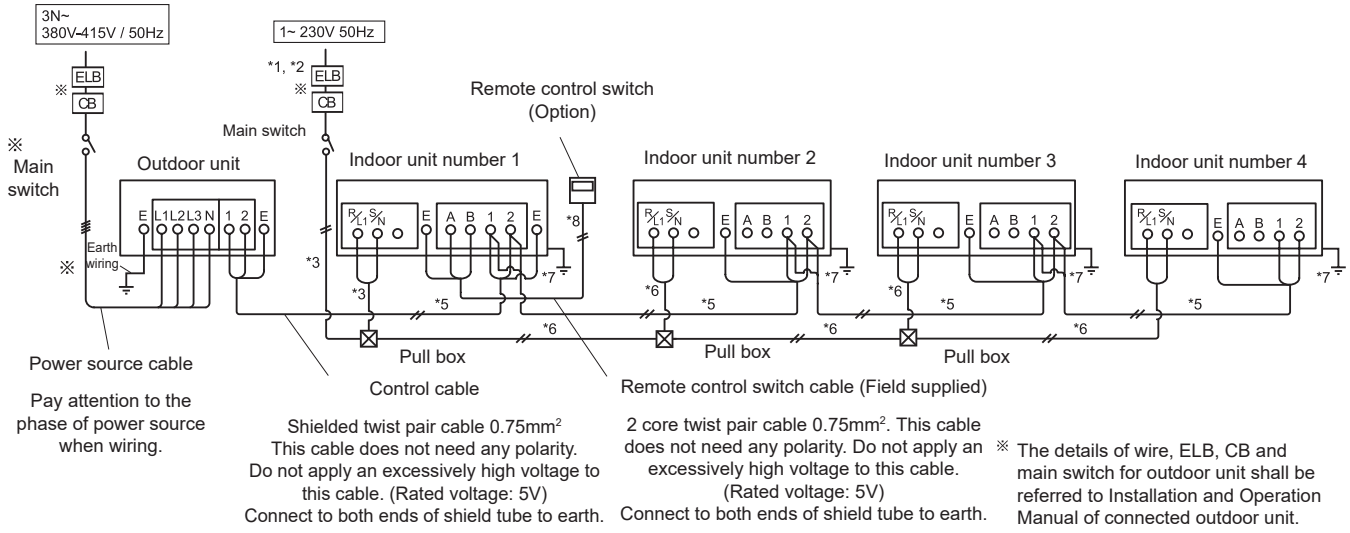
Pay attention to the phase of power source when wiring.

Shielded twist pair cable 0.75mm²
This cable does not need any polarity. Do not apply an excessively high voltage to this cable. (Rated voltage: 5V)

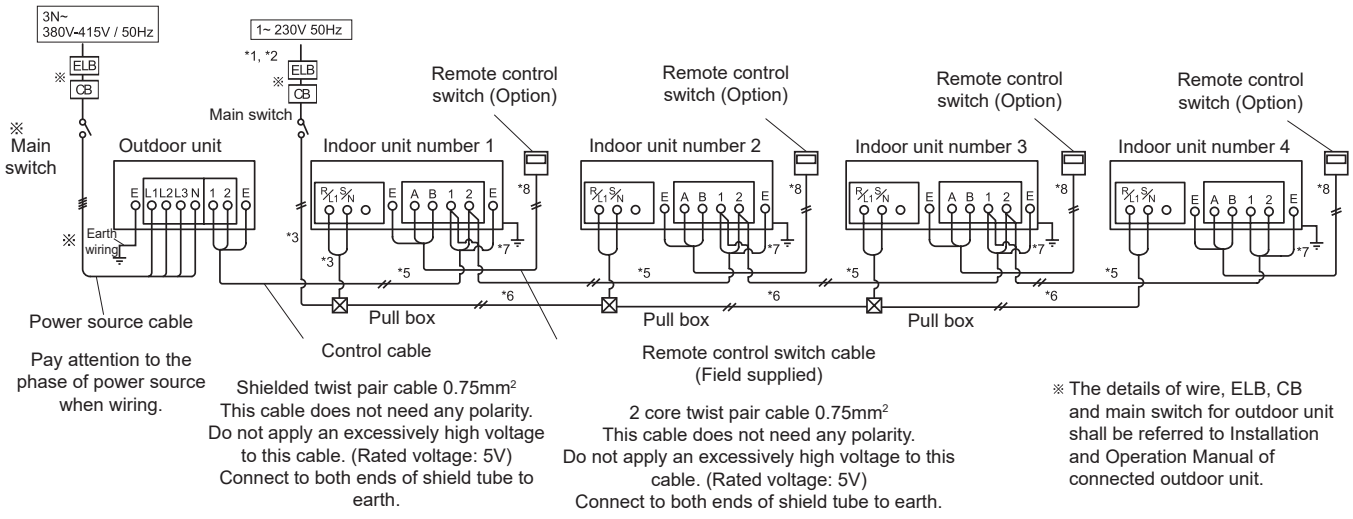
Shielded twist pair cable 0.75mm². This cable does not need any polarity. Do not apply an excessively high voltage to this cable. (Rated voltage: 5V)

※ The details of wire, ELB, CB and main switch for outdoor unit shall be referred to Installation and Operation Manual of connected outdoor unit.

- Example of Wiring Connection (Twin, Triple and Quad Combinations for Simultaneous Operation)



- Example of Wiring Connection (Twin, Triple and Quad Combinations for Individual Operation)



Model	ELB	Main switch	CB (Fuse)	Wiring size (mm²)				
Combination	(n/A/mA)	Rated current (A)	Rated current (A)	Power source cable	Transition wiring between OU and IU		Earth wiring *7	Remote control switch cable *8
					Power supply	Control circuit *5		
	*1	*2	*2	*3 *6	< 20m *4			
Single type	2/40/30	5	5	0.75	1.0	0.75	0.75	0.75
Twin, Triple, Quad				1.0			1.0	

ELB: Earth Leakage Breaker; CB: Circuit Breaker; IU: Indoor unit; OU: Outdoor unit

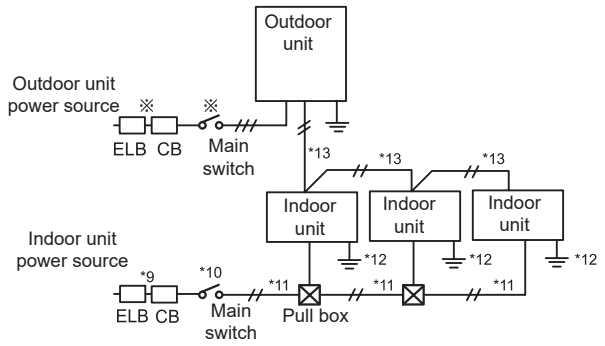
NOTE

For the total wiring length more than 20m, refer to Installation and Operation Manual of the outdoor unit.

◆ For SET-FREE Series

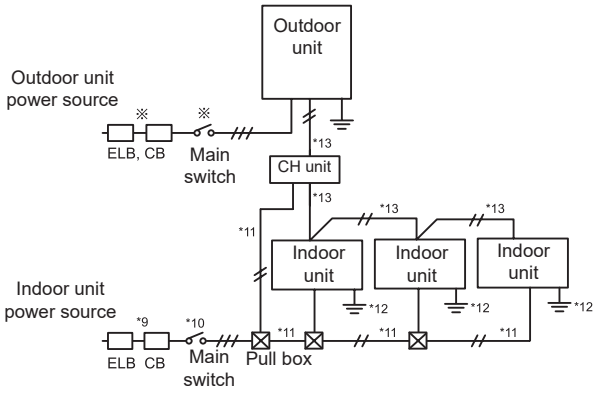
Select wiring capacity according to the following table. Install the ELB, CB and the main switch to each as shown in the figures below.

Heat pump system



※ The details of wire, ELB, CB and main switch for outdoor unit shall be referred to Installation and Operation Manual of connected outdoor unit.

Heat recovery system



※ The details of wire, ELB, CB and main switch for outdoor unit shall be referred to Installation and Operation Manual of connected outdoor unit.

Total indoor unit capacity	Power Source					Earth wire size (mm^2) *12	Transition wire size for control circuit (mm^2) *13	Remote control switch cable (mm^2)
	ELB (n/A/mA) *9	Main Switch Switch capacity (A) *10	CB (fuse) capacity (A) *9	Minimum wire size (mm^2)	Wiring length (m)*1) *11			
< 7A	2/40/30	30	15	2.5	30	2.5	2 Core cable (Shielded twist pair cable) 0.75 ~ 1.25	2 core twist pair cable 0.75
<10A	2/40/30	30	20	4.0	34	4.0		
< 15A	2/40/30	30	30	6.0	34	6.0		

ELB: Earth Leakage Breaker; CB: Circuit Breaker

*1): The above wiring line length shows the case that the indoor units are connected in series. (The voltage drop is within 2%.) When the power source wiring is longer than the above value, select the minimum wiring size which the voltage drop is within 2%.

NOTE

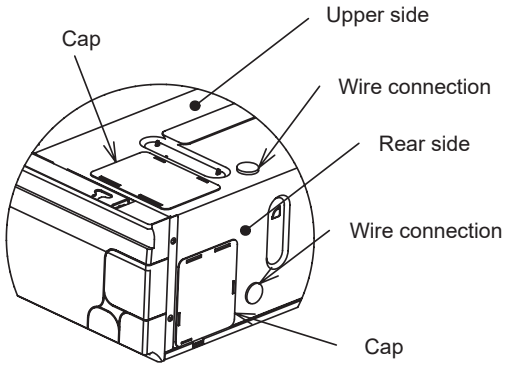
- *Check the recommended size of the ELB and CB shown in table. Select high-sensitive high speed ELB when the rated sensitive current is less than 30mA. (The motion time should be within 0.1 second.)*
- *Use 2 core cable or 2 core twist pair cable (Shielded twist pair cable for the total wiring length more than 100m) for the control cable between the outdoor unit and the indoor unit. The total cable length should be less than 1000m.*
- *Use 2 core twist pair cable for the remote control switch cable and the control cable between indoor units. The total cable length should be less than 500m. If the total length of the cable is less than 30m, other cables can be used (the cable size is 0.3mm^2).*
- *Select the wiring size, ELB (Earth Leakage Breaker) and isolating switch (CB (Circuit Breaker)) according to each regulation of region and Installation and Operation Manual, and the dedicated electrical circuit must be used.*
- *On the outside indoor unit, the power source cable, control cable and remote control cable shall be installed separately as possible.*

15.3 WIRING CONNECTION

DANGER

Tightly clamp wires by the cord clamp after the wiring is completed to the terminal board. If not completed, it may cause a fire by biting wires.

1 The wiring connection for the indoor unit is shown below.

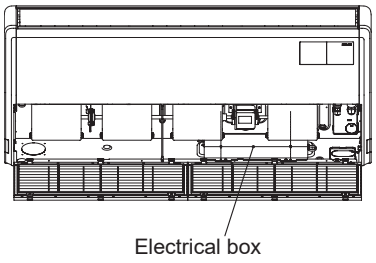


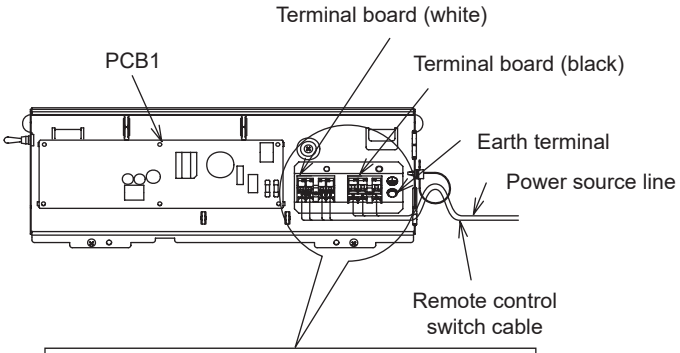
2 The wiring connection for electrical box is as follows.

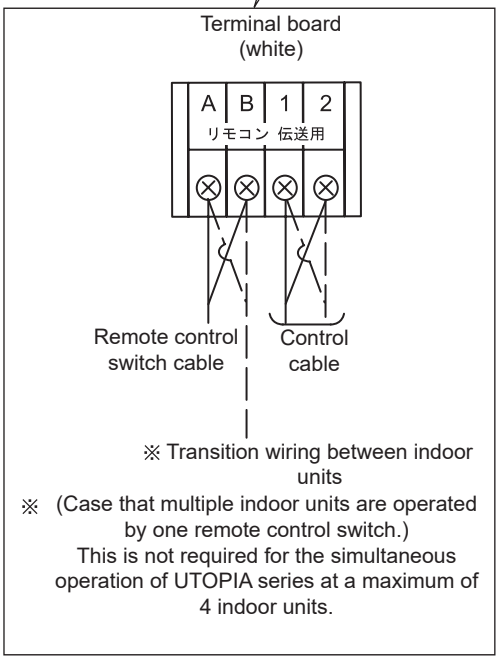
a. Open the air inlet grille.

b. Remove the electrical box cover.

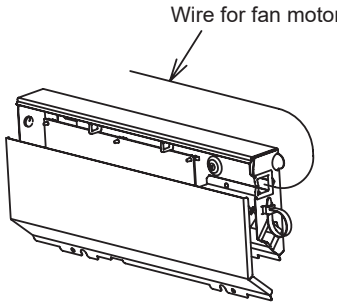
c. Connect the control cable, power source cable and remote control switch cable.







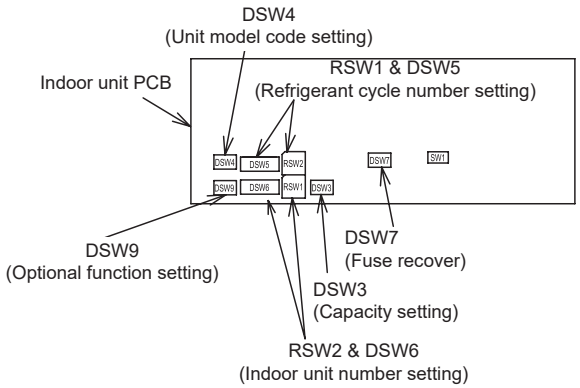
d. After the wiring is completed, attach the electrical box cover again with care in order not to bite wires.



15.4 DIP SWITCH SETTING

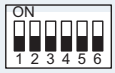
1 Turn OFF all the power supply to the indoor and the outdoor units before dip switch setting. If not, the setting is invalid.

2 The positions of dip switches on PCB are shown in the figure below.



3 Unit number setting (RSW2 & DSW6). The indoor unit number of all indoor units are not required. The indoor unit numbers are set by the auto-address function. If the indoor unit number setting is required, set the unit number of all indoor units respectively and serially by following setting position. It is recommended that the unit number setting start from “1”. For the centralized control, this setting is required.

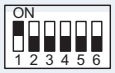
Factory setting

DSW6 (Tens digit)	RSW2 (Units digit)
	

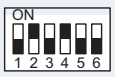
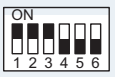
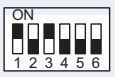
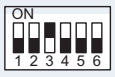
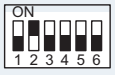
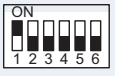
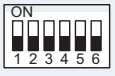
NOTE

- *For units supporting H-LINK II: the unit numbers can be set for maximum 64 indoor units (Number 0-63).*
- *For units supporting H-LINK: the units numbers can be set for maximum 16 indoor units (Number 0-15).*

Example: set at number 16 unit

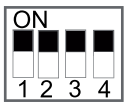
DSW6 (Tens digit)	RSW2 (Units digit)
	

4 Capacity code setting (DSW3). No setting is required, due to setting before shipment. This switch is used for setting the capacity code which corresponds to the Horse Power of the indoor unit.

Horsepower	1.5	2.0	2.5	3.0
Setting position				
Horsepower	**4.0**	**5.0**	**6.0**	
Setting position				

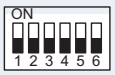
5 Unit Model Code Setting (DSW4). No setting is required. It is for setting the model code of the indoor unit.

Factory setting



6 Refrigerant cycle number setting (RSW1 & DSW5). Setting is required. Setting positions before shipment are all OFF.

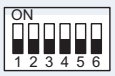
Factory setting

DSW5 (Tens digit)	RSW1 (Units digit)
	

NOTE

- *For units supporting H-LINK II: the refrigerant cycle numbers can be set for maximum 64 cycles (Number 0-63).*
- *For units supporting H-LINK: the refrigerant cycle numbers can be set for maximum 16 cycles (Number 0-15).*

Example: set at number 5 cycle

DSW5 (Tens digit)	RSW1 (Units digit)
	

7 Fuse recover (DSW7). In the case of applying high voltage to the terminal 1 and 2 of TB2, the fuse (0.5A) on the PCB is cut, firstly reconnect the wirings correctly to TB2, and then turn on Number 1 pin.

Factory setting	High voltage
	

8 Optional function setting (DSW9). No setting is required.

Factory setting

NOTE

- *The “■” mark indicates position of dip switches. Figures show setting before shipment.*
- *When the unit number and the refrigerant cycle are set, record the unit number and refrigerant cycle to facilitate maintenance and servicing activities thereafter.*

16 TEST RUN

Test run should be performed according to this manual and Installation and Operation Manual of the outdoor unit.

Do not operate the system until all the check points have been cleared.

DANGER

- ***Check to ensure that the electrical resistance is more than 1 megohm, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired.***
- ***Do not touch any of the parts at the discharge gas side by hand while the system is running, since the compressor chamber and the pipes at the discharge side are heated higher than 90ºC.***

NOTE

- *Check to ensure that the stop valves of the outdoor unit are fully opened, and then start the system.*
- *Check to ensure that the switch on the main power source has been ON for more than 12 hours, to warm the compressor oil by the crankcase heater.*

16.1 BEFORE TEST RUN

Recheck that there is not any problems to the installation, and do not perform the test run until all the following checking points have been cleared.

1 Check to ensure that the refrigerant piping and the transition wiring are connected to the same refrigerant cycle system. If not, it will cause an abnormal operation and breakage of instruments.

2 Do not apply the high voltage to the terminals for the transmission (TB2 (A, B, 1 and 2)).

3 Check to ensure that each wire is correctly connected at the phase of power source. If incorrectly connected, the unit will not operate and the remote control switch will indicate the alarm code “05”. In this case, check the phase of the primary power source according to the attached attention label on the rear side of the service cover. Then, perform the reconnection work correctly with turning OFF the power supply.

4 Check to ensure that the main power source has been turned ON for more than 12 hours, to warm the compressor oil by the crankcase heater.

16.2 START TEST RUN

After the installation work is completed, test run should be performed.

1 Check to ensure that stop valves (gas and liquid) of the outdoor unit are fully opened.

2 In the case that indoor units are connected to the VRF system, perform the test run of the indoor unit one by one sequentially and then check accordance of the refrigerant piping system and the electrical wiring system. (If the multiple indoor units are operated simultaneously, the system can not be inspected the system accordance.).

3 Perform the test run according to the "Installation and Operation Manual" of remote control.

17 MAIN SAFETY AND CONTROL DEVICES

Model			RPC-(1.5-6.0)FSR
For Evaporator Fan Motor			Automatic Reset, Non-Adjustable
Internal Thermostat	Cut-Out	ºC	100^{+15}_{-10}
	Cut-in	ºC	100^{+15}_{-10}
For Control Circuit			
Fuse capacity	A		5
Freeze Protection			
Thermostat	Cut-Out	ºC	0
	Cut-In	ºC	11
Thermostat			
Differential		ºC	2

HITACHI

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