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ARHITEKTONSKI STUDIO AIM d.o.o.

OBRAZAC 1

Elektronski potpis projektanta	Elektronski potpis revidenta
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INVESTITOR: VRHOVNI SUD CRNE GORE

OBJEKAT: Objekat centralnih djelatnosti, zgrada Vrhovnog Suda

LOKACIJA: Urbanistička parcela br. 4, blok „S“, UP „Nova Varoš“ u Podgorici

VRSTA TEHNIČKE DOKUMENTACIJE:

GLAVNI PROJEKAT

PROJEKTANT:

"ARHITEKTONSKI STUDIO AIM" D.O.O. PODGORICA

ODGOVORNO LICE:

Ivan Milošević, dipl.inž.arh.

GLAVNI INŽENJER:

Ivan Milošević, dipl.inž.arh.
br.lic. UPI 107/7-1751/2

Decembar 2021.

Elektronski potpis projektanta	Elektronski potpis revidenta
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INVESTITOR: VRHOVNI SUD CRNE GORE, Podgorica

OBJEKAT: Rekonstrukcija i adaptacije fasadnog i krovnog omotača objekta Vrhovnog suda u Podgorici

LOKACIJA: Urbanistička parcela br.4, blok "S", UP "Nova Varoš", Opština Podgorica

DIO TEHNIČKE DOKUMENTACIJE: MAŠINSKI PROJEKAT- TERMOTEHNIČKE INSTALACIJE

PROJEKTANT: AIM STUDIO d.o.o Podgorica

ODGOVORNO LICE: Ivan Milošević, dipl.ing.arh.

ODGOVORNI INŽENJER: Sanja Mihaljević, dipl.inž.maš.

SARADNIK NA PROJEKTU:

decembar 2021.

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- Naslovna strana, Obrazac 1a

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TEHNIČKI OPIS

Glavni projekat termotehničkih instalacija za dio objekata VRHOVNI SUD CRNE GORE (Rekonstrukcija i adaptacije fasadnog i krovnog omotača objekta Vrhovnog suda u Podgorici), Urbanistička parcela br.4, blok "S", UP "Nova Varoš", Opština Podgorica, Crna Gora u skladu sa odredbama Zakona o uređenju prostora i izgradnji objekata (Sl. list Crne Gore br. 064/17 od 06.10.2017 god.) i Pravilnikom o načinu izrade i sadržini tehničke dokumentacije (Sl. list Crne Gore br. 041/18 od 28.06.2018 god) MEST i EN standardima kao i važećim propisima i preporukama za ovu vrstu instalacija.

1.1 OBJEKAT

Objekat se nalazi na lokaciji Urbanistička parcela br.4, blok "S", UP "Nova Varoš", Opština Podgorica, Crna Gora.

PROJEKTNİ PARAMETRI

Za izradu projekta korišćeni su sledeći parametri:

1.1.1 Projektne temperature

- Zimska spoljna temperatura - 6°C
- Zimska unutrašnja temperatura..... +25°C
- Ljetnja spoljna temperatura..... + 35°C
- Ljetnja unutrašnja temperatura +22°C

1.2 SISTEM TERMOTEHNIČKIH INSTALACIJA

1.3

Glavnim projektom predviđen je VRV sistem klimatizacije objekta (grijanje i hlađenje).

Grijanje, odnosno hlađenje objekta vrši se pomoću VRV sistema (sistem koji radi sa promjenljivom količinom freona) i na taj način štedi energiju, na način što spoljašnja jedinica šalje freon ka unutrašnjim jedinicama u količini potrebnoj za optimalan rad. Ovaj sistem trenutno predstavlja najsofisticiraniji sistem u oblasti klimatizacije. Kompresorom upravlja inverter koji zavisno od toplotnog opterećenja objekta odabira najpovoljniju brzinu obrtaja kompresora. Prema tome rashladni fluid se dovodi do unutrašnjih jedinica sa promjenljivim zapreminskim protokom, dok unutrašnje jedinice imaju elektronski ekspanzioni ventil sa opsegom otvaranja 0-100%. Spoljašnja (kompresorsko-kondenzatorska) jedinica ima veliki broj stepeni regulacije kapaciteta, tako da je moguće da u sistemu radi samo jedna unutrašnja jedinica, a spoljašnja jedinica će preko invertera postići toliku snagu kolika njoj treba. Znači ne angažuje se kompletna instalisana električna snaga za spoljašnju jedinicu već se samo angažuje onoliko snage koliko je potrebno da se ostvari potrebna toplotna snaga na unutrašnjoj jedinici. Ovo čini ovaj sistem izuzetno energetski efikasnim što se tiče potrošnje električne energije za njegov pogon tj. eksploatacionih troškova.

Projektom je predviđena ugradnja dvije spoljašnje jedinice kojom bi se tretirao prostor prizemlja, prvog, drugog sprata i potkrovlja. Klimatizije se samo dio prostorija, koje smo dobili od vodećeg arhitekta, a tiču se prostorija koje su obuhvaćene spoljnom fasadom koja se rekonstruiše. Spoljašnja jedinica je predviđena za ugradnju van objekta, u dijelu parcele koju je odredio vodeći projektant u skladu sa investitorom. Horizontalni bakarni razvod se razvodi u nivou prizemlja, dok je horizontalni razvod kroz sve etaze fasadno do krova objekta.

Na osnovu proračuna gubitaka toplote, prema standardu DIN 4701, kao i na osnovu proračuna dobitaka toplote prema standardu ASHRAE 1997 i odabrane su unutrašnje jedinice. Projektovane su zidnog tipa. Odvod kondezata vući uraditi vertikalama do prizemlja, a u prizemlje u najblizu olučnu vertikalu. U svakoj prostoriji predviđena je kontrola daljinskim kontrolerom.

U tabeli ispod se nalazi model i tip unutrašnje jedinica za prostorije, kao i spoljasnih jedinica za objekat.

SPOLJAŠNJE JEDINICE	AM180KXVAGH/ET	1	DVM S(NEW) (2017 HP Standard)
	AM220KXVAGH/ET	3	DVM S(NEW) (2017 HP Standard)
UNUTRAŠNJE JEDINICE	AM015TNADKH/EU	4	Wind-Free
	AM022TNADKH/EU	7	Wind-Free
	AM022TNVDKH/UK	1	Wind-Free
	AM028TNADKH/EU	21	Wind-Free
	AM036TNADKH/EU	12	Wind-Free
	AM045TNADKH/EU	10	Wind-Free
	AM056TNVDKH/EU	1	Wind-Free
	AM056TNADKH/EU	8	Wind-Free
	AM082TNADKH/EU	1	Wind-Free

Kako nismo dobili projekat izvedenog stanja termotehničkih instalacija projekat, kao ni projekat u kojem se vide slojevi zida, međukonstrukcije, unutrašnjih zidova i slično, kako bi se adekvatno uradio proračun gubitaka i dobitaka, a samim tim i izbor opreme, projekat je urađen po standardnim podacima za tip stare gradnje i ne uzima se kao finalan i tačan, zbog nepotpunih informacija. Pozicija unutrašnjih jedinica smo pozicionirali blizu zidova fasade, kako se ne bi mijenjao enterijer prostorije.

Tačni podaci o broju i količini unutrašnjih jedinica nemamo, ali kako smo nezvanično dobili iz tehničke službe Vrhovnog suda to je:

-67 komada – topotnog kapaciteta 2-2,5 KW

-10 komada – toplotnog kapacitet 4-5 KW , nije potrebno dovoditi dodatno električno napajanje,

Ali, ukoliko ove informacije nisu relevantne(tačne) , sugerisati (obavijestiti) izvođača elekto instalacija o tome, kako bi na vrijeme bilo promijenjeno dato rešenje i ne bi doslo do toga da nemamo dovoljno napajanja za spoljasnje i unutrašnje jedinice.

u Podgorici, Decembar 2021. god.

Odgovorni inženjer:
Sanja Mihaljević, dipl.ing.maš.

PROGRAM KONTROLE I OSIGURANJA KVALITETA

Sa uslovima za ispunjavanje osnovnih zahtjeva za objekat tokom građenja i održavanja objekta (procedure za obezbjeđenje kvaliteta, program ispitivanja)

OPŠTE

Radove treba izvesti tačno prema opisu iz projekta, predmjeru i tehničkim uslovima za izvođenje radova, koji su sastavni dio ovog projekta. U stavkama gdje nije objašnjen način rada i posebne osobine finalnog proizvoda izvođač je dužan pridržavati se uobičajenog načina rada, uvažavajući odredbe važećih standarda, uz obavezu dobijanja kvalitetnog proizvoda. Osim toga, izvođač je obavezan pridržavati se uputstava projektanta u svim pitanjima koja se odnose na izbor i obradu materijala i način izvođenja pojedinih detalja, ukoliko nije već detaljno opisano predmjerom, a naročito u slučajevima kada se zahtijeva izvođenje van propisanih standarda.

Sav materijal za izgradnju mora biti kvalitetan i mora odgovarati opisu predmjera i postojećim propisima. Cijene pojedinih radova moraju sadržavati sve elemente koji određuju cijenu gotovog proizvoda, a u skladu s odredbama predmjera.

Ako izvođač sumnja u ispravnost ili kvalitet nekog propisanog materijala i smatra da za takvo izvođenje ne bi mogao preuzeti odgovornost, dužan je da o tome obavijesti projektante i nadzornu službu s obrazloženjem i dokumentacijom. Konačnu odluku donosi projektant u saglasnosti s nadzornim inženjerom investitora, nakon proučenog predloga proizvođača.

U slučaju da opis pojedine stavke nije dovoljno jasan, mjerodavna su uputstva i tumačenje projektanta. O tome se izvođač mora informisati već prilikom sastavljanja jedinične cijene.

Kontrola kvaliteta

Kontrola kvaliteta sastoji se od:

- ispitivanja pogodnosti materijala,
- tekuće kontrole,
- kontrolnog ispitivanja, i
- provjere kvaliteta uskladištenih materijala.

Ispitivanje pogodnosti

Pogodnost materijala s obzirom na njegovu namjenu utvrđuje se prethodnim laboratorijskim ispitivanjima. Svojstva materijala moraju zadovoljiti zahtjeve tehničkih uslova. Uzorkovanje i ispitivanje obavlja licencirana institucija za kontrolu kvaliteta.

Tekuća kontrola

Tekuća kontrola obavlja se radi kontrole tehnološkog procesa. Tekuća ispitivanja obavlja proizvođač u vlastitoj laboratoriji ili ih o njegovom trošku obavlja organizacija za kontrolu kvaliteta. Učestalost i vrste tekućih ispitivanja propisani su tehničkim uslovima, zavisno od vrste i namjene materijala.

Kontrolno ispitivanje

Kontrolno ispitivanje obavlja se radi provjere usklađenosti kvaliteta proizvoda sa svojstvima i karakteristikama propisanih tehničkim uslovima. Kontrolna ispitivanja može obavljati jedino organizacija za kontrolu kvaliteta, koja obavlja i uzorkovanje materijala. Učestalost i vrste ispitivanja propisani su tehničkim uslovima, zavisno od vrste i namjene materijala. Za materijale koji podliježu obaveznom atestiranju, uzorkovanje i ispitivanje radi izdavanja atesta obavlja isključivo ovlašćena organizacija.

Dokumentacija

Izveštaj o ispitivanju kvaliteta s ocjenom pogodnosti materijala mora sadržavati ove podatke:

- opšti dio: naziv materijala, mjesto uzorkovanja, podatke o naručiocu ili proizvođaču, datum uzorkovanja i završetku ispitivanja, namjenu materijala i laboratorijsku oznaku uzorka,
- rezultate svih laboratorijskih ispitivanja propisanih tehničkim uslovima za tu vrstu materijala,
- ocjenu kvaliteta materijala s obzirom na vrstu i namjenu,
- mišljenje o pogodnosti materijala s obzirom na namjenu.

Uvjerjenje o kvalitetu proizvoda

Uvjerjenje o kvalitetu proizvoda izdaje se poslije najmanje tri uzastopna kontrolna ispitivanja proizvoda kojima je ustanovljen propisani kvalitet. Uslov za izdavanje uvjerenja o kvalitetu je redovna evidencija rezultata tekuće kontrole. Rok važenja uvjerenja o kvalitetu proizvoda može biti najviše jedna godina.

Uvjerjenje o kvalitetu proizvoda mora sadržavati ove podatke:

- opšti dio: naziv proizvoda, deklaraciju, mjesto, podatke o proizvođaču i naručiocu, datum uzorkovanja, laboratorijske oznake uzorka,
- pregledni prikaz rezultata kontrolnih ispitivanja na osnovu kojih se izdaje uvjerenje,
- ocjenu kvaliteta i mišljenje o upotrebljivosti s obzirom na stalnost kvaliteta proizvoda, namjeni materijala i svojstva primarne sirovine,
- rok važenja uvjerenja.

Stalnost kvaliteta proizvoda do isteka roka važenja uvjerenja o kvalitetu prati se kontrolnim ispitivanjima.

Ispitivanja i atesti

Da bi se osigurao stalni kvalitet sastavnih materijala, a da bi se dobio odgovarajući uvid u kvalitet sastavnih materijala potrebno je:

- Kontrolisati kvalitet materijala,
- Osigurati odgovarajuću dokumentaciju o kvalitetu materijala,

- Za ispitivanje materijala primjenjivati metode ispitivanja, standarde i propise date u tehničkim uslovima.

Atesti se izdaju za svu opremu i radove koji su prošli kompletnu proceduru ispitivanja. Obavezni atesti koje treba dostaviti u dokumentaciji u toku izvođenja radova su:

- Zapisnik o probama na pritisak, hladna i topla;
- Uvjerenje o kvalitetu cijevi;
- Atesti ugrađene opreme i materijala;
- Zapisnik sa mjerenja o postignutim parametrima postrojenja (pritisci, temperature, protoci...);
- Zapisnici sa obavljenih funkcionalnih ispitivanja.

IZVOĐAČ RADOVA

Izvođač radova instalacije i montažer trebaju da budu registrovani za takvu djelatnost i licencirani od strane Ministarstva za održivi razvoj.

Graditi ili izvoditi pojedine radove na građenju, može pravno ili fizičko lice registrovano za obavljanje te djelatnosti (Izvođač radova) koje je upoznato sa pravilima struke navedenim u prikazu primijenjenih propisa i nepisanim pravilima struke, odnosno biti kvalifikovan za obavljanje predviđene djelatnosti.

Izvođač radova treba da dostavi Nadzoru potvrde zavarivača koji rade na instalaciji. Izvođač radova imenuje odgovornog inženjera građenja koji je obavezan sarađivati sa nadzornim inženjerom.

Izvođač radova je dužan:

- ugrađivati materijale i opremu zahtijevanog kvaliteta u skladu sa projektom;
- za vrijeme građenja na gradilištu imati svu atestnu dokumentaciju materijala i opreme koji se ugrađuju;
- osiguravati dokaze o kvalitetu radova i ugrađene opreme prema zahtjevima iz projekta;
- redovno voditi dnevnik građenja i u njega upisivati sve podatke u skladu sa Pravilnikom o vođenju dnevnika i redovno ga davati na uvid nadzornom inženjeru.

Obavještenje o završetku radova izvođač radova mora dostaviti pismenim putem.

Za kvalitet izvedenih radova izvođač radova garantuje dvije godine od datuma primopredaje radova odobrenih od strane nadzornog inženjera i puštanja u rad svih sistema. Minimalni garantnirok za ugrađenu opremu, prema Zakonu o zaštiti potrošača, je dvije godine, a u dogovoru sa investitorom i nadzornim inženjerom, može se i produžiti.

U garantnom roku izvođač radova je dužan, o svom trošku, otkloniti sve nedostatke izazvanenepравilnim izvođenjem ili upotrebom nekvalitetnog materijala.

INVESTITOR – NARUČILAC POSLA

Građenje i nadzor nad građenjem investitor mora povjeriti licima registrovanim za obavljanje tih djelatnosti koje poznaju propise i pravila struke.

Investitor je dužan da prije početka radova dostavi izvođaču radova imena nadzornih inženjera zaduženih za nadzor izvođenja radova.

Naručilac posla - investitor treba da osigura nadzornu službu za nadzor nad izvođenjem u pogledu kvaliteta i kvantiteta radova. Nadzorni inženjer može biti samo osoba koja odgovara uslovima iz Zakona o planiranju prostora i izgradnji objekata.

Investitor će prema potrebi osigurati projektantski nadzor, a za sve bitne promjene tokom izvođenja radova od Projektanta zatražiti pismenu saglasnost. U slučaju prekida radova investitor je dužan preduzeti mjere radi osiguranja gradilišta susjednih površina.

Naručilac treba da odredi osobu kojoj će izvedene radove preuzeti od izvođača radova. Osoba morabit dovoljno stručna da prihvati izvedene radove, a to može biti u isto vrijeme osoba koja je radila nadzor.

NADZORNI INŽENJER

Nadzorni inženjer dužan je:

- voditi računa da se gradi u skladu s projektnim rješenjem i Zakonom o planiranju prostora i izgradnji objekata;
- voditi računa o tome da je kvaliteta radova, ugrađenih proizvoda i opreme u skladu sa zahtjevima projekta te da je taj kvalitet dokazan propisanim ispitivanjima i dokumentima;
- redovno pratiti izvođenje radova i sve eventualne primjedbe upisivati u građevinski dnevnik.

ISPITIVANJA IZVEDENIH RADOVA

Nakon izvođenja radova po ovom projektu treba:

Obaveze investitora

- Izdati rješenje osobi koja će primiti izvedene radove s obvezom obuke prilikom primanja.

Obaveze izvođača radova

- Izvršiti obuku osobe koja će upravljati ugrađenim uređajima;
- Izvršiti funkcionalnu probu svih instalacija, kao i obaviti puštanje u rad svih uređaja u prisustvu stručnih i ovlašćenih servisera;
- Izvršiti hladnu probu na pritisak cjevovoda na 6 bar u trajanju 24 sata;
- Izvršiti toplu probu na pritisak cjevovoda vodom na 1,5 x radni pritisak u trajanju od 2 sata;
- Ispitivanje efikasnosti ventilacije od strane ovlašćene ustanove;
- Sva ispitivanja potkrijepiti potvrdama o usklađenosti za opremu i radove, a na kraju izdatigarantne listove.

Obaveze nadzornog inženjera

- Izvršiti vizualan pregled cjelokupne instalacije i ustanoviti da li su svi dijelovi izvedeni po projektu;

- Izvršiti pregled ugrađene opreme i konstatovati da su svi ugrađeni djelovi novi i atestirani i da posjeduju proizvođačke potvrde o usklađenosti;
- Prisustvovati probama na pritisak i funkcionalnim probama do utvrđivanja da su probe uspjele.
- Izvršiti obračunkoličina ugrađenih materijala i opreme;
- Konačnim izvještajem o završenim radovima potvrditi da je sve izvršeno i da je funkcionalno.

UREĐENJE GRADILIŠTA

Izvođač radova dužan je prije početka radova da uredi prostor gradilišta i osigura da se radovi obavljaju u skladu s pravilima zaštite na radu prema elaboratu ouređenju gradilišta.

Izgrađene privremene građevine i postavljena oprema gradilišta moraju biti stabilni i odgovarati propisanim uslovima zaštite od požara i eksplozije, zaštite na radu i svim drugim mjerama zaštite radi sprečavanja ugrožavanja života i zdravlja ljudi.

Za privremeno zauzimanje javnih i saobraćajnih površina za potrebe gradilišta, izvođač je dužan obezbijediti odobrenje nadležnog tijela, odnosno poduzeća.

MATERIJALI I UREĐAJI

Ugrađeni materijali moraju biti ispravni i kvalitetni. Kvalitet ugrađenih materijala dokazuje se odgovarajućim potvrdama o usklađenosti. Svi elementi, djelovi i oprema cjevovoda moraju odgovarati zahtjevima navedenim u specifikaciji materijala.

MJERENJA I KONTROLNI PREGLEDI

Najmanje jedanput godišnje treba izvršiti kontrolu i funkcionalno ispitivanje svih uređaja. Kontrola uređaja i opreme, kao što su filteri, mjerni uređaji i slično vrši se više puta u godini prema potrebi i tehničkim uslovima.

Sve uređaje i opremu koja ima posebnu namjenu i posebne tehničke zahtjeve treba kontrolisati i servisirati prema posebnim tehničkim uputstvima koje su date uz navedene uređaje.

Preventivno održavanje, kontrolu i servis mogu vršiti samo osobe koje su za to tehnički osposobljene i ovlaštene od strane odgovorne osobe.

U Podgorici, Decembar 2021. god.

Odgovorni inženjer:

Sanja Mihaljević, dipl.inž.maš.

SPISAK PROPISA I LITERATURE KORIŠĆENE TOKOM IZRADE PROJEKTA

▪ PROPISI

Zakon o uređenju prostora i izgradnji objekata (Sl.list CG, br. 51/08, 40/10, 34/11, 40/11, 47/11, 35/13, 39/13 i 33/14)

Zakon o zaštiti i spašavanju (Sl. list Crne Gore br. 13/07, 05/08, 86/09 i 32/11)

Zakon o zaštiti i zdravlju na radu (Sl.list Crne Gore, br. 34/14)

Zakon o zaštiti od požara (Sl.list Crne Gore, br. 13/07)

Zakon o zaštiti buke u životnoj sredini (Sl. list Crne Gore, br. 28/11)

Zakon o upravljanju otpadom (Sl. list Crne Gore br. 64/11)

Zakon o životnoj sredini (Sl. list Crne Gore br. 48/08)

Pravilnik o načinu izrade, razmjeri i bližoj sadržini tehničke dokumentacije (Sl.list RCG, br. 23/14)

Pravilnik o graničnim vrijednostima buke u životnoj sredini, načinu utvrđivanja indikatora buke i akustičnih zona i metodama ocjenjivanja štetnih efekata buke (Sl. list Crne Gore, br. 60/11)

Pravilnik o tehničkim normativima za sisteme za ventilaciju i klimatizaciju (Sl.list SFRJ, br. 38/89)

▪ LITERATURA

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▪ STANDARDI

MEST EN 12735-1:2014 – Bakar i legure bakra - Bešavne bakarne cijevi kružnog poprečnog presjeka za klimatizaciju i hlađenje - Dio 1: Cijevi za cjevovode;

MEST EN 12735-2:2014 – Bakar i legure bakra - Bešavne bakarne cijevi kružnog poprečnog presjeka za klimatizaciju i hlađenje - Dio 2: Cijevi za opremu;

DIN 4701/1983

ASHRAE 1997

i ostali relevantni standardi i propisi koji nisu posebno navedeni

- **KATALOZI I TEHNIČKA DOKUMENTACIJA PROIZVOĐAČA OPREME**

DAIKIN – Katalozi i tehnička dokumentacija opreme za klimatizaciju

u Podgorici, decembar 2021. godine

Odgovorni inženjer:

Sanja Mihaljević, dipl.inž.maš.

UPUTSTVO ZA UPRAVLJANJE SA GRAĐEVINSKIM OTPADOM *odnosno opasnim otpadom koji nastaje tokom građenja, korišćenja odnosno uklanjanja objekta, u skladu sa posebnim propisom*

Izvođenje instalacija klimatizacije i ventilacije zahtijeva dopremu velike količine materijala i uređaja na gradilište. Prerada poluproizvoda i sirovina na licu mjesta i ugradnja fabrički zapakovane opreme uzrokuju nastanak otpada na gradilištu. Upravljanje otpadom je definisano u Zakonu o upravljanju otpadom ("Službeni list Crne Gore", br. 064/11 od 29.12.2011, 039/16 od 29.06.2016).

Preporuke kojih se izvođač mora pridržavati i posebni tehnički uslovi građenja za upravljanje građevinskim otpadom, koji nastaje tokom izvođenja predmetnih instalacija, u cilju smanjenja uticajana okolinu i na osobe na gradilištu su definisane Pravilnikom o postupanju sa građevinskim otpadom, načinu i postupku prerade građevinskog otpada, uslovima i načinu odlaganja cement azbestnog građevinskog otpada ("Sl. list Crne Gore", br. 50/12 od 01.10.2012).

Sakupljanje, privremeno deponovanje, odvoz i trajno zbrinjavanje građevinskog otpada sa gradilišta u opštini Kolašin mora se uskladiti sa Lokalnim planom upravljanja komunalnim i neopasnim građevinskim otpadom, Opštine Kolašin.

Upravljanje otpadom definiše se u sledećim tačkama:

- Dokumentacija o otpadu koji nastaje na gradilištu;
- Mjere koje se trebaju preduzeti radi sprečavanja proizvodnje otpada, posebno kada se radi o opasnom otpadu;
- Odvajanje otpada, posebno opasnog otpada od druge vrste otpada koji će se ponovo koristiti;
- Odlaganje otpada;
- Metode tretmana i/ili odlaganja.

Radi postizanja cilja i pravovremenog sprječavanja zagađivanja i smanjenja posljedica po zdravlje ljudi i okoline, upravljanje otpadom treba sprovesti na način koji osigurava:

- minimalno nastajanje otpada, a posebno smanjenje opasnih karakteristika takvog otpada na minimum;
- smanjenje nastalog otpada po količini;
- tretiranje otpada na način kojim se osigurava povrat nastalog materijala iz njega;
- odlaganja na odlagališta na prihvatljiv način onih vrsta otpada koje ne podliježu povratu komponenti, ponovnoj upotrebi ili proizvodnji energije.

Prilikom izvođenja pripremnih radova kao i za vrijeme izgradnje očekuje se da će nastati veće količine otpada od čišćenja terena, iskopa, izgradnje objekta i sl.

U toku pripremnih radova nastaje otpadna zemlja i kamenje iz iskopa kanala i građevinski otpad od rušenja i probijanja otvora. Nakon izvođenja pripremnih radova slijedi faza izgradnje

odnosno izvođenja građevinskih radova. Od otpada koji se stvara u toku izvođenja radova to su otpadna ambalaža, drvo, plastika, bakar, aluminijum, čelik, miješani metali, djelovi toplotne izolacije (polietilen, ekspandirana guma, stiropor, mineralna vuna...)

Prilikom izvođenja radova, na gradilištu će biti veći broj radnika, pa će samim tim biti i velika produkcija komunalnog otpada. U ovom slučaju se misli na veće količine otpada nastale boravkom i ishranom radnika. Radnici koji rukuju opasnim materijama moraju poznavati sve potencijalne opasnosti i biti adekvatno zaštićeni od njih zaštitnim sredstvima. Svi radnici treba da poznaju raspored mjesta odlaganja otpada i opasnih materija.

Sav nastali otpad na gradilištu će se skupljati selektivno, odnosno u odvojenim posudama i na određenim lokacijama, u skladu sa klasifikacijom otpada. Najbitnije je odvajanje opasnog od neopasnog otpada, odvajanje građevinskog od ostalih kategorija, odvajanje otpadne biomase, te posebno odvajanje otpada koji se može reciklirati.

Opasni otpad i njihova ambalaža koji se skupljaju ili skladište moraju biti označeni u skladu sa propisima koji regulišu označavanje opasnih materija. Opasni otpad treba odvojeno prikupljati i adekvatno privremeno skladištiti. Eventualno miješanje otpada je dozvoljeno samo ako je to u skladu sa propisima i dozvolom.

Otpadna ulja treba prikupljati u odgovarajuću ambalažu, čuvati i skupljati odvojeno. Zabranjeno je izlivanje otpadnih ulja u površinske i podzemne vode, kanalizaciju ili na tlo. Skladištenje ili čuvanje selektiranog otpada se izvodi na za to posebno određenim, sigurnim i označenim mjestima, opremljenim ambalažom za privremeno odlaganje, npr.:

- Kontejner za opasni otpad;
- miješani opasni otpad
- Kontejner za bezopasni otpad - miješani komunalni otpad
- Kontejner ili podloga za bezopasni otpad - miješani ambalažni otpad koji se može reciklirati
- Kontejner ili podloga za bezopasni otpad
- miješani metalni otpad koji se može reciklirati i sl.

Kontejneri moraju obezbjediti uslove da otpad ne može štetno uticati na okolinu. Otpad mora biti označen, shodno propisima.

Za sakupljena otpadna ulja treba nabaviti burad ili druge odgovarajuće posude, tako da ne može doći do curenja i zagađenja okoliša. Servisiranje vozila se smije raditi isključivo na servisnom platou, koji treba imati drenažni sistem.

Višak materijala od iskopa treba usmjeriti na korišćenje prilikom izvođenja drugih planiranih građevinskih radova, a neiskorošteni dio iskopnog materijala deponovati na lokacijama, koje su odabrane i odobrene od nadležne službe. Za konačno deponovanje takvog otpada treba uraditi projekat i dobiti odobrenje nadležnih organa.

Privremeno ili konačno deponovanje materijala iz iskopa u blizini vodotoka, nije dopušteno. Lokacija mora biti odabrana, tako da nema štetnih uticaja na vode. Privremene deponije se na kraju izvođenja radova moraju rekultivisati.

Izvođač radova, u ovom slučaju i proizvođač otpada će kompletan selektivno prikupljeni otpad predati operatoru, odnosno ovlašćenim poduzećima za prikupljanje, transport, preradu i konačno zbrinjavanje otpada u skladu sa propisima. U postupku traženja najbolje ponude, izvođač će od ponuđača zatražiti dokaz o zadovoljavanju zakonskih odredbi. Po izboru ponuđača, sačiniće se ugovori o pružanju usluga prikupljanja, transporta, prerade i konačnog zbrinjavanja otpada.

Otpad naveden pod „Opasni otpad“, generiše se u slučaju da izvođač radova predvidi gradilišta, na kojem će se vršiti i servisiranje građevinske mehanizacije. U slučaju da izvođač ne bude vršio servisiranje mehanizacije, pretakanje goriva i sl. na gradilištu, opasni otpad ne bi trebao nastajati.

Dakle, obaveza izvođača radova je da adekvatno zbrine kompletan generisani otpad.

U Podgorici, Decembar 2021. god.

Odgovorni inženjer:

Sanja Mihaljević, dipl.ing.maš.

NUMERIČKA DOKUMENTACIJA

Aircon heat load calculation sheet

Project Name: Vrhovni sud Podgorica

Address:

21/June/2021

Heat load sum up table

Room name	Fl	Sys -tem	Qty. of rooms	Cooling				Heating				Floor area	Heat load per area	
				Indoor SH	Total	Selected	Time	Total	Selected	Humid.	Time		Cooling	Heating
				[W]			[Hr]	[W]		[kg/h]	[Hr]	[m2]	[W/m2]	
Prizemlje- 01	1	1	1	11715	12007	12607	16	8294	9123	0.24	7	26.0	484.9	350.9
Prizemlje- 02	1	1	1	10708	11000	11550	16	5696	6266	0.24	7	26.0	444.2	241.0
Prizemlje- 03	1	1	1	10708	11000	11550	16	5696	6266	0.24	7	26.0	444.2	241.0
Prizemlje- 04	1	1	1	10887	11179	11738	16	6292	6921	0.24	7	26.0	451.5	266.2
Prizemlje- 05	1	1	1	10887	11179	11738	16	6292	6921	0.24	7	26.0	451.5	266.2
Prizemlje- 06	1	1	1	10708	11000	11550	16	5696	6266	0.24	7	26.0	444.2	241.0
Prizemlje- 07	1	1	1	10708	11000	11550	16	5696	6266	0.24	7	26.0	444.2	241.0
Prizemlje- 08	1	1	1	10768	11060	11613	16	5895	6485	0.24	7	26.0	446.7	249.4
Prizemlje- 010	1	1	1	4970	5147	5404	8	4500	4950	0.12	7	13.0	415.7	380.8
Prizemlje- 011	1	1	1	9531	9794	10284	8	5141	5655	0.16	7	18.0	571.3	314.2
Prizemlje- 012	1	1	1	9488	9748	10235	8	5034	5537	0.15	7	16.7	612.9	331.6
Prizemlje- 013	1	1	1	2650	2823	2964	9	2486	2735	0.09	7	9.9	299.4	276.2
Prvi sprat- 101	2	1	1	11545	11837	12429	16	7764	8540	0.24	7	26.0	478.0	328.5
Prvi sprat- 102	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 103	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 104	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 105	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 106	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 107	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 108	2	1	1	10546	10838	11380	16	5194	5713	0.24	7	26.0	437.7	219.7
Prvi sprat- 109	2	1	1	11104	11396	11966	16	6054	6659	0.24	7	26.0	460.2	256.1
Drugi sprat- 201	3	1	1	22221	22737	23874	16	12111	13322	0.52	7	55.0	434.1	242.2
Drugi sprat- 202	3	1	1	10540	10835	11377	16	5129	5642	0.25	7	27.0	421.4	209.0
Drugi sprat- 203	3	1	1	20999	21510	22586	16	10203	11223	0.50	7	53.0	426.1	211.8
Drugi sprat- 204	3	1	1	10540	10835	11377	16	5129	5642	0.25	7	27.0	421.4	209.0
Drugi sprat- 205	3	1	1	10540	10835	11377	16	5129	5642	0.25	7	27.0	421.4	209.0
Drugi sprat- 206	3	1	1	10540	10835	11377	16	5129	5642	0.25	7	27.0	421.4	209.0
Drugi sprat- 207	3	1	1	11505	11800	12390	16	6907	7598	0.25	7	27.0	458.9	281.4
Drugi sprat- 208	3	1	1	2605	2799	2939	9	3587	3946	0.17	7	19.5	150.7	202.3
Treci sprat - 301	4	1	1	6535	6837	7179	16	6311	6942	0.28	7	30.0	239.3	231.4
Treci sprat - 302	4	1	1	3000	3201	3361	16	2092	2301	0.19	7	20.0	168.1	115.1
Treci sprat - 303	4	1	1	5277	5562	5840	16	3326	3659	0.22	7	23.0	253.9	159.1
Treci sprat - 304	4	1	1	3096	3373	3542	16	2193	2412	0.19	7	20.0	177.1	120.6
Treci sprat - 305	4	1	1	5232	5509	5784	16	3375	3713	0.19	7	20.0	289.2	185.6
Treci sprat - 306	4	1	1	5527	5829	6120	16	3618	3980	0.28	7	30.0	204.0	132.7
Treci sprat - 307	4	1	1	3041	3318	3484	16	2052	2257	0.19	7	20.0	174.2	112.9
Treci sprat - 308	4	1	1	5304	5589	5868	16	3397	3737	0.22	7	23.0	255.2	162.5
Treci sprat - 309	4	1	1	3081	3358	3526	16	2154	2369	0.19	7	20.0	176.3	118.5

SH : Sensible heat

Heat load sum up table

Room name	Fl	Sys -tem	Qty. of rooms	Cooling				Heating				Floor area	Heat load per area	
				Indoor SH	Total	Selected	Time	Total	Selected	Humid.	Time		Cooling	Heating
				[W]			[Hr]	[W]		[kg/h]	[Hr]	[m2]	[W/m2]	
Treci sprat - 310	4	1	1	5283	5568	5846	16	3345	3680	0.22	7	23.0	254.2	160.0
Treci sprat - 311	4	1	1	5674	6052	6355	16	3861	4247	0.28	7	30.0	211.8	141.6
Potkrovlje 01	5	1	1	4041	4359	4577	16	9018	9920	0.34	7	27.0	169.5	367.4
Potkrovlje 02	5	1	1	10182	10831	11373	16	12261	13487	0.73	7	58.0	196.1	232.5
Potkrovlje 03	5	1	1	5032	5353	5621	16	6056	6662	0.35	7	28.0	200.7	237.9
Potkrovlje 04	5	1	1	5032	5353	5621	16	6056	6662	0.35	7	28.0	200.7	237.9
Potkrovlje 05	5	1	1	5032	5353	5621	16	6056	6662	0.35	7	28.0	200.7	237.9
Potkrovlje 06	5	1	1	5032	5353	5621	16	6056	6662	0.35	7	28.0	200.7	237.9
Potkrovlje 07	5	1	1	5032	5353	5621	16	6056	6662	0.35	7	28.0	200.7	237.9
Potkrovlje 08	5	1	1	5032	5353	5621	16	6056	6662	0.35	7	28.0	200.7	237.9
Potkrovlje 15	5	1	1	3078	3297	3462	15	7349	8084	0.24	7	19.0	182.2	425.5
Potkrovlje 16	5	1	1	4030	4429	4650	14	6883	7571	0.33	7	27.0	172.2	280.4
Potkrovlje 17	5	1	1	3974	4297	4512	14	6883	7571	0.33	7	27.0	167.1	280.4
Peak load of building			51	398976	414509	435234	16	284672	313139	13.65	7	1347.1	323.1	232.5

SH : Sensible heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 01	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	974	0	34	168	228	603	0	0	1745	262	0	2007
7	27.4	57.2	0	0	27	22	1480	9	42	168	228	603	0	0	2309	270	0	2579
8	29.2	53.5	12	0	62	50	2160	20	50	168	228	603	0	0	3075	278	0	3353
9	31.1	49.3	65	0	99	79	2842	32	56	168	228	603	0	0	3888	284	0	4172
10	32.8	46.1	133	0	132	105	3400	43	63	168	228	603	0	0	4584	291	0	4875
11	34.3	42.9	218	0	161	129	3828	53	66	168	228	603	0	0	5160	294	0	5454
12	35.2	41.1	317	0	178	143	4094	58	67	168	228	603	0	0	5561	295	0	5856
13	35.6	40.2	405	0	186	149	6150	61	67	168	228	603	0	0	7722	295	0	8017
14	35.4	40.7	483	0	182	146	8596	60	67	168	228	603	0	0	10238	295	0	10533
15	34.7	42.3	560	0	169	135	9926	55	67	168	228	603	0	0	11616	295	0	11911
*16	33.7	44.1	621	0	149	119	10006	49	64	168	228	603	0	0	11715	292	0	12007

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1933	0	491	392	5116	265	154	0	0	0	0	0	8197	154	0	8197
* 7	-3.6	86.1	1955	0	496	397	5178	268	154	0	0	0	0	0	8294	154	0	8294
8	-3.0	81.8	1910	0	485	387	5056	262	154	0	0	0	0	0	8100	154	0	8100
9	-1.5	81.1	1795	0	456	364	4754	246	146	0	0	0	0	0	7615	146	0	7615
10	0.5	76.7	1642	0	417	333	4350	225	138	0	0	0	0	0	6967	138	0	6967
11	2.6	70.4	1482	0	376	301	3924	203	133	0	0	0	0	0	6286	133	0	6286
12	4.1	67.2	1368	0	347	277	3620	188	127	0	0	0	0	0	5800	127	0	5800
13	4.6	66.8	1329	0	337	270	3520	182	125	0	0	0	0	0	5638	125	0	5638
14	4.5	67.3	1337	0	339	271	3540	183	125	0	0	0	0	0	5670	125	0	5670
15	4.0	67.7	1375	0	349	279	3642	189	127	0	0	0	0	0	5834	127	0	5834
16	3.3	69.1	1428	0	363	290	3782	196	130	0	0	0	0	0	6059	130	0	6059

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 02	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	27	22	1194	9	42	168	228	603	0	0	2023	270	0	2293
8	29.2	53.5	0	0	62	50	1776	20	50	168	228	603	0	0	2679	278	0	2957
9	31.1	49.3	0	0	99	79	2334	32	56	168	228	603	0	0	3315	284	0	3599
10	32.8	46.1	8	0	132	105	2792	43	63	168	228	603	0	0	3851	291	0	4142
11	34.3	42.9	22	0	161	129	3146	53	66	168	228	603	0	0	4282	294	0	4576
12	35.2	41.1	38	0	178	143	3374	58	67	168	228	603	0	0	4562	295	0	4857
13	35.6	40.2	54	0	186	149	5434	61	67	168	228	603	0	0	6655	295	0	6950
14	35.4	40.7	73	0	182	146	7916	60	67	168	228	603	0	0	9148	295	0	9443
15	34.7	42.3	96	0	169	135	9320	55	67	168	228	603	0	0	10546	295	0	10841
*16	33.7	44.1	122	0	149	119	9498	49	64	168	228	603	0	0	10708	292	0	11000

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	491	392	4204	265	154	0	0	0	0	0	5630	154	0	5630
* 7	-3.6	86.1	281	0	496	397	4254	268	154	0	0	0	0	0	5696	154	0	5696
8	-3.0	81.8	275	0	485	387	4154	262	154	0	0	0	0	0	5563	154	0	5563
9	-1.5	81.1	258	0	456	364	3906	246	146	0	0	0	0	0	5230	146	0	5230
10	0.5	76.7	236	0	417	333	3574	225	138	0	0	0	0	0	4785	138	0	4785
11	2.6	70.4	213	0	376	301	3224	203	133	0	0	0	0	0	4317	133	0	4317
12	4.1	67.2	197	0	347	277	2974	188	127	0	0	0	0	0	3983	127	0	3983
13	4.6	66.8	191	0	337	270	2892	182	125	0	0	0	0	0	3872	125	0	3872
14	4.5	67.3	192	0	339	271	2908	183	125	0	0	0	0	0	3893	125	0	3893
15	4.0	67.7	198	0	349	279	2992	189	127	0	0	0	0	0	4007	127	0	4007
16	3.3	69.1	205	0	363	290	3108	196	130	0	0	0	0	0	4162	130	0	4162

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 03	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	27	22	1194	9	42	168	228	603	0	0	2023	270	0	2293
8	29.2	53.5	0	0	62	50	1776	20	50	168	228	603	0	0	2679	278	0	2957
9	31.1	49.3	0	0	99	79	2334	32	56	168	228	603	0	0	3315	284	0	3599
10	32.8	46.1	8	0	132	105	2792	43	63	168	228	603	0	0	3851	291	0	4142
11	34.3	42.9	22	0	161	129	3146	53	66	168	228	603	0	0	4282	294	0	4576
12	35.2	41.1	38	0	178	143	3374	58	67	168	228	603	0	0	4562	295	0	4857
13	35.6	40.2	54	0	186	149	5434	61	67	168	228	603	0	0	6655	295	0	6950
14	35.4	40.7	73	0	182	146	7916	60	67	168	228	603	0	0	9148	295	0	9443
15	34.7	42.3	96	0	169	135	9320	55	67	168	228	603	0	0	10546	295	0	10841
*16	33.7	44.1	122	0	149	119	9498	49	64	168	228	603	0	0	10708	292	0	11000

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	491	392	4204	265	154	0	0	0	0	0	5630	154	0	5630
* 7	-3.6	86.1	281	0	496	397	4254	268	154	0	0	0	0	0	5696	154	0	5696
8	-3.0	81.8	275	0	485	387	4154	262	154	0	0	0	0	0	5563	154	0	5563
9	-1.5	81.1	258	0	456	364	3906	246	146	0	0	0	0	0	5230	146	0	5230
10	0.5	76.7	236	0	417	333	3574	225	138	0	0	0	0	0	4785	138	0	4785
11	2.6	70.4	213	0	376	301	3224	203	133	0	0	0	0	0	4317	133	0	4317
12	4.1	67.2	197	0	347	277	2974	188	127	0	0	0	0	0	3983	127	0	3983
13	4.6	66.8	191	0	337	270	2892	182	125	0	0	0	0	0	3872	125	0	3872
14	4.5	67.3	192	0	339	271	2908	183	125	0	0	0	0	0	3893	125	0	3893
15	4.0	67.7	198	0	349	279	2992	189	127	0	0	0	0	0	4007	127	0	4007
16	3.3	69.1	205	0	363	290	3108	196	130	0	0	0	0	0	4162	130	0	4162

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 04	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	60	22	1194	9	42	168	228	603	0	0	2056	270	0	2326
8	29.2	53.5	0	0	136	50	1776	20	50	168	228	603	0	0	2753	278	0	3031
9	31.1	49.3	0	0	218	79	2334	32	56	168	228	603	0	0	3434	284	0	3718
10	32.8	46.1	8	0	290	105	2792	43	63	168	228	603	0	0	4009	291	0	4300
11	34.3	42.9	22	0	354	129	3146	53	66	168	228	603	0	0	4475	294	0	4769
12	35.2	41.1	38	0	392	143	3374	58	67	168	228	603	0	0	4776	295	0	5071
13	35.6	40.2	54	0	409	149	5434	61	67	168	228	603	0	0	6878	295	0	7173
14	35.4	40.7	73	0	401	146	7916	60	67	168	228	603	0	0	9367	295	0	9662
15	34.7	42.3	96	0	371	135	9320	55	67	168	228	603	0	0	10748	295	0	11043
*16	33.7	44.1	122	0	328	119	9498	49	64	168	228	603	0	0	10887	292	0	11179

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	1080	392	4204	265	154	0	0	0	0	0	6219	154	0	6219
* 7	-3.6	86.1	281	0	1092	397	4254	268	154	0	0	0	0	0	6292	154	0	6292
8	-3.0	81.8	275	0	1067	387	4154	262	154	0	0	0	0	0	6145	154	0	6145
9	-1.5	81.1	258	0	1003	364	3906	246	146	0	0	0	0	0	5777	146	0	5777
10	0.5	76.7	236	0	917	333	3574	225	138	0	0	0	0	0	5285	138	0	5285
11	2.6	70.4	213	0	827	301	3224	203	133	0	0	0	0	0	4768	133	0	4768
12	4.1	67.2	197	0	763	277	2974	188	127	0	0	0	0	0	4399	127	0	4399
13	4.6	66.8	191	0	742	270	2892	182	125	0	0	0	0	0	4277	125	0	4277
14	4.5	67.3	192	0	746	271	2908	183	125	0	0	0	0	0	4300	125	0	4300
15	4.0	67.7	198	0	768	279	2992	189	127	0	0	0	0	0	4426	127	0	4426
16	3.3	69.1	205	0	798	290	3108	196	130	0	0	0	0	0	4597	130	0	4597

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 05	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	60	22	1194	9	42	168	228	603	0	0	2056	270	0	2326
8	29.2	53.5	0	0	136	50	1776	20	50	168	228	603	0	0	2753	278	0	3031
9	31.1	49.3	0	0	218	79	2334	32	56	168	228	603	0	0	3434	284	0	3718
10	32.8	46.1	8	0	290	105	2792	43	63	168	228	603	0	0	4009	291	0	4300
11	34.3	42.9	22	0	354	129	3146	53	66	168	228	603	0	0	4475	294	0	4769
12	35.2	41.1	38	0	392	143	3374	58	67	168	228	603	0	0	4776	295	0	5071
13	35.6	40.2	54	0	409	149	5434	61	67	168	228	603	0	0	6878	295	0	7173
14	35.4	40.7	73	0	401	146	7916	60	67	168	228	603	0	0	9367	295	0	9662
15	34.7	42.3	96	0	371	135	9320	55	67	168	228	603	0	0	10748	295	0	11043
*16	33.7	44.1	122	0	328	119	9498	49	64	168	228	603	0	0	10887	292	0	11179

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	1080	392	4204	265	154	0	0	0	0	0	6219	154	0	6219
* 7	-3.6	86.1	281	0	1092	397	4254	268	154	0	0	0	0	0	6292	154	0	6292
8	-3.0	81.8	275	0	1067	387	4154	262	154	0	0	0	0	0	6145	154	0	6145
9	-1.5	81.1	258	0	1003	364	3906	246	146	0	0	0	0	0	5777	146	0	5777
10	0.5	76.7	236	0	917	333	3574	225	138	0	0	0	0	0	5285	138	0	5285
11	2.6	70.4	213	0	827	301	3224	203	133	0	0	0	0	0	4768	133	0	4768
12	4.1	67.2	197	0	763	277	2974	188	127	0	0	0	0	0	4399	127	0	4399
13	4.6	66.8	191	0	742	270	2892	182	125	0	0	0	0	0	4277	125	0	4277
14	4.5	67.3	192	0	746	271	2908	183	125	0	0	0	0	0	4300	125	0	4300
15	4.0	67.7	198	0	768	279	2992	189	127	0	0	0	0	0	4426	127	0	4426
16	3.3	69.1	205	0	798	290	3108	196	130	0	0	0	0	0	4597	130	0	4597

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 06	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	27	22	1194	9	42	168	228	603	0	0	2023	270	0	2293
8	29.2	53.5	0	0	62	50	1776	20	50	168	228	603	0	0	2679	278	0	2957
9	31.1	49.3	0	0	99	79	2334	32	56	168	228	603	0	0	3315	284	0	3599
10	32.8	46.1	8	0	132	105	2792	43	63	168	228	603	0	0	3851	291	0	4142
11	34.3	42.9	22	0	161	129	3146	53	66	168	228	603	0	0	4282	294	0	4576
12	35.2	41.1	38	0	178	143	3374	58	67	168	228	603	0	0	4562	295	0	4857
13	35.6	40.2	54	0	186	149	5434	61	67	168	228	603	0	0	6655	295	0	6950
14	35.4	40.7	73	0	182	146	7916	60	67	168	228	603	0	0	9148	295	0	9443
15	34.7	42.3	96	0	169	135	9320	55	67	168	228	603	0	0	10546	295	0	10841
*16	33.7	44.1	122	0	149	119	9498	49	64	168	228	603	0	0	10708	292	0	11000

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	491	392	4204	265	154	0	0	0	0	0	5630	154	0	5630
* 7	-3.6	86.1	281	0	496	397	4254	268	154	0	0	0	0	0	5696	154	0	5696
8	-3.0	81.8	275	0	485	387	4154	262	154	0	0	0	0	0	5563	154	0	5563
9	-1.5	81.1	258	0	456	364	3906	246	146	0	0	0	0	0	5230	146	0	5230
10	0.5	76.7	236	0	417	333	3574	225	138	0	0	0	0	0	4785	138	0	4785
11	2.6	70.4	213	0	376	301	3224	203	133	0	0	0	0	0	4317	133	0	4317
12	4.1	67.2	197	0	347	277	2974	188	127	0	0	0	0	0	3983	127	0	3983
13	4.6	66.8	191	0	337	270	2892	182	125	0	0	0	0	0	3872	125	0	3872
14	4.5	67.3	192	0	339	271	2908	183	125	0	0	0	0	0	3893	125	0	3893
15	4.0	67.7	198	0	349	279	2992	189	127	0	0	0	0	0	4007	127	0	4007
16	3.3	69.1	205	0	363	290	3108	196	130	0	0	0	0	0	4162	130	0	4162

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 07	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	27	22	1194	9	42	168	228	603	0	0	2023	270	0	2293
8	29.2	53.5	0	0	62	50	1776	20	50	168	228	603	0	0	2679	278	0	2957
9	31.1	49.3	0	0	99	79	2334	32	56	168	228	603	0	0	3315	284	0	3599
10	32.8	46.1	8	0	132	105	2792	43	63	168	228	603	0	0	3851	291	0	4142
11	34.3	42.9	22	0	161	129	3146	53	66	168	228	603	0	0	4282	294	0	4576
12	35.2	41.1	38	0	178	143	3374	58	67	168	228	603	0	0	4562	295	0	4857
13	35.6	40.2	54	0	186	149	5434	61	67	168	228	603	0	0	6655	295	0	6950
14	35.4	40.7	73	0	182	146	7916	60	67	168	228	603	0	0	9148	295	0	9443
15	34.7	42.3	96	0	169	135	9320	55	67	168	228	603	0	0	10546	295	0	10841
*16	33.7	44.1	122	0	149	119	9498	49	64	168	228	603	0	0	10708	292	0	11000

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	491	392	4204	265	154	0	0	0	0	0	5630	154	0	5630
* 7	-3.6	86.1	281	0	496	397	4254	268	154	0	0	0	0	0	5696	154	0	5696
8	-3.0	81.8	275	0	485	387	4154	262	154	0	0	0	0	0	5563	154	0	5563
9	-1.5	81.1	258	0	456	364	3906	246	146	0	0	0	0	0	5230	146	0	5230
10	0.5	76.7	236	0	417	333	3574	225	138	0	0	0	0	0	4785	138	0	4785
11	2.6	70.4	213	0	376	301	3224	203	133	0	0	0	0	0	4317	133	0	4317
12	4.1	67.2	197	0	347	277	2974	188	127	0	0	0	0	0	3983	127	0	3983
13	4.6	66.8	191	0	337	270	2892	182	125	0	0	0	0	0	3872	125	0	3872
14	4.5	67.3	192	0	339	271	2908	183	125	0	0	0	0	0	3893	125	0	3893
15	4.0	67.7	198	0	349	279	2992	189	127	0	0	0	0	0	4007	127	0	4007
16	3.3	69.1	205	0	363	290	3108	196	130	0	0	0	0	0	4162	130	0	4162

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 08	1	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	38	22	1194	9	42	168	228	603	0	0	2034	270	0	2304
8	29.2	53.5	0	0	86	50	1776	20	50	168	228	603	0	0	2703	278	0	2981
9	31.1	49.3	0	0	139	79	2334	32	56	168	228	603	0	0	3355	284	0	3639
10	32.8	46.1	8	0	184	105	2792	43	63	168	228	603	0	0	3903	291	0	4194
11	34.3	42.9	22	0	225	129	3146	53	66	168	228	603	0	0	4346	294	0	4640
12	35.2	41.1	38	0	250	143	3374	58	67	168	228	603	0	0	4634	295	0	4929
13	35.6	40.2	54	0	260	149	5434	61	67	168	228	603	0	0	6729	295	0	7024
14	35.4	40.7	73	0	255	146	7916	60	67	168	228	603	0	0	9221	295	0	9516
15	34.7	42.3	96	0	236	135	9320	55	67	168	228	603	0	0	10613	295	0	10908
*16	33.7	44.1	122	0	209	119	9498	49	64	168	228	603	0	0	10768	292	0	11060

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	278	0	687	392	4204	265	154	0	0	0	0	0	5826	154	0	5826
* 7	-3.6	86.1	281	0	695	397	4254	268	154	0	0	0	0	0	5895	154	0	5895
8	-3.0	81.8	275	0	679	387	4154	262	154	0	0	0	0	0	5757	154	0	5757
9	-1.5	81.1	258	0	638	364	3906	246	146	0	0	0	0	0	5412	146	0	5412
10	0.5	76.7	236	0	583	333	3574	225	138	0	0	0	0	0	4951	138	0	4951
11	2.6	70.4	213	0	526	301	3224	203	133	0	0	0	0	0	4467	133	0	4467
12	4.1	67.2	197	0	485	277	2974	188	127	0	0	0	0	0	4121	127	0	4121
13	4.6	66.8	191	0	472	270	2892	182	125	0	0	0	0	0	4007	125	0	4007
14	4.5	67.3	192	0	475	271	2908	183	125	0	0	0	0	0	4029	125	0	4029
15	4.0	67.7	198	0	489	279	2992	189	127	0	0	0	0	0	4147	127	0	4147
16	3.3	69.1	205	0	508	290	3108	196	130	0	0	0	0	0	4307	130	0	4307

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 010	1	1	1	Others	13.0	3.7	2	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	3494	0	17	112	152	302	0	0	3908	169	0	4077
7	27.4	57.2	13	0	20	11	4146	4	21	112	152	302	0	0	4608	173	0	4781
* 8	29.2	53.5	67	0	46	25	4408	10	25	112	152	302	0	0	4970	177	0	5147
9	31.1	49.3	161	0	73	40	4198	16	28	112	152	302	0	0	4902	180	0	5082
10	32.8	46.1	258	0	98	53	3370	22	31	112	152	302	0	0	4215	183	0	4398
11	34.3	42.9	356	0	119	64	2110	26	33	112	152	302	0	0	3089	185	0	3274
12	35.2	41.1	452	0	132	71	1660	29	34	112	152	302	0	0	2758	186	0	2944
13	35.6	40.2	514	0	138	74	1654	30	34	112	152	302	0	0	2824	186	0	3010
14	35.4	40.7	550	0	135	73	1566	30	34	112	152	302	0	0	2768	186	0	2954
15	34.7	42.3	576	0	125	67	1394	28	34	112	152	302	0	0	2604	186	0	2790
16	33.7	44.1	584	0	110	60	1174	24	32	112	152	302	0	0	2366	184	0	2550

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1756	0	363	196	2006	126	73	0	0	0	0	0	4447	73	0	4447
* 7	-3.6	86.1	1777	0	367	198	2030	128	73	0	0	0	0	0	4500	73	0	4500
8	-3.0	81.8	1736	0	359	194	1984	125	73	0	0	0	0	0	4398	73	0	4398
9	-1.5	81.1	1632	0	337	182	1864	117	70	0	0	0	0	0	4132	70	0	4132
10	0.5	76.7	1493	0	308	167	1706	107	66	0	0	0	0	0	3781	66	0	3781
11	2.6	70.4	1346	0	278	150	1538	97	63	0	0	0	0	0	3409	63	0	3409
12	4.1	67.2	1242	0	257	139	1420	89	61	0	0	0	0	0	3147	61	0	3147
13	4.6	66.8	1208	0	250	135	1380	87	60	0	0	0	0	0	3060	60	0	3060
14	4.5	67.3	1215	0	251	136	1388	87	60	0	0	0	0	0	3077	60	0	3077
15	4.0	67.7	1250	0	258	139	1428	90	61	0	0	0	0	0	3165	61	0	3165
16	3.3	69.1	1298	0	268	145	1484	93	62	0	0	0	0	0	3288	62	0	3288

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 011	1	1	1	Others	18.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	6986	0	23	168	228	418	0	0	7572	251	0	7823
7	27.4	57.2	5	0	26	15	8290	6	29	168	228	418	0	0	8928	257	0	9185
* 8	29.2	53.5	21	0	58	34	8818	14	35	168	228	418	0	0	9531	263	0	9794
9	31.1	49.3	39	0	93	55	8394	22	39	168	228	418	0	0	9189	267	0	9456
10	32.8	46.1	57	0	124	73	6742	30	43	168	228	418	0	0	7612	271	0	7883
11	34.3	42.9	72	0	151	89	4220	36	45	168	228	418	0	0	5154	273	0	5427
12	35.2	41.1	83	0	168	99	3318	40	46	168	228	418	0	0	4294	274	0	4568
13	35.6	40.2	85	0	175	103	3306	42	46	168	228	418	0	0	4297	274	0	4571
14	35.4	40.7	80	0	171	101	3130	41	47	168	228	418	0	0	4109	275	0	4384
15	34.7	42.3	74	0	159	93	2788	38	47	168	228	418	0	0	3738	275	0	4013
16	33.7	44.1	67	0	140	83	2346	34	44	168	228	418	0	0	3256	272	0	3528

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	158	0	461	271	4014	175	102	0	0	0	0	0	5079	102	0	5079
* 7	-3.6	86.1	160	0	467	275	4062	177	102	0	0	0	0	0	5141	102	0	5141
8	-3.0	81.8	156	0	456	268	3966	173	102	0	0	0	0	0	5019	102	0	5019
9	-1.5	81.1	147	0	428	252	3728	163	96	0	0	0	0	0	4718	96	0	4718
10	0.5	76.7	134	0	392	231	3410	149	91	0	0	0	0	0	4316	91	0	4316
11	2.6	70.4	121	0	354	208	3078	134	88	0	0	0	0	0	3895	88	0	3895
12	4.1	67.2	112	0	326	192	2840	124	84	0	0	0	0	0	3594	84	0	3594
13	4.6	66.8	109	0	317	187	2760	120	82	0	0	0	0	0	3493	82	0	3493
14	4.5	67.3	109	0	319	188	2776	121	82	0	0	0	0	0	3513	82	0	3513
15	4.0	67.7	113	0	328	193	2856	125	84	0	0	0	0	0	3615	84	0	3615
16	3.3	69.1	117	0	341	201	2966	129	86	0	0	0	0	0	3754	86	0	3754

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 012	1	1	1	Others	16.7	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	6986	0	22	168	228	387	0	0	7541	250	0	7791
7	27.4	57.2	3	0	24	14	8290	6	27	168	228	387	0	0	8892	255	0	9147
* 8	29.2	53.5	14	0	56	32	8818	13	32	168	228	387	0	0	9488	260	0	9748
9	31.1	49.3	26	0	89	51	8394	21	36	168	228	387	0	0	9136	264	0	9400
10	32.8	46.1	38	0	119	68	6742	28	40	168	228	387	0	0	7550	268	0	7818
11	34.3	42.9	48	0	145	83	4220	34	42	168	228	387	0	0	5085	270	0	5355
12	35.2	41.1	55	0	161	92	3318	38	43	168	228	387	0	0	4219	271	0	4490
13	35.6	40.2	56	0	168	96	3306	39	43	168	228	387	0	0	4220	271	0	4491
14	35.4	40.7	53	0	164	94	3130	38	43	168	228	387	0	0	4034	271	0	4305
15	34.7	42.3	49	0	152	87	2788	35	43	168	228	387	0	0	3666	271	0	3937
16	33.7	44.1	45	0	134	77	2346	31	41	168	228	387	0	0	3188	269	0	3457

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	105	0	441	252	4014	163	94	0	0	0	0	0	4975	94	0	4975
* 7	-3.6	86.1	106	0	447	255	4062	164	94	0	0	0	0	0	5034	94	0	5034
8	-3.0	81.8	104	0	436	249	3966	161	94	0	0	0	0	0	4916	94	0	4916
9	-1.5	81.1	97	0	410	234	3728	151	89	0	0	0	0	0	4620	89	0	4620
10	0.5	76.7	89	0	375	214	3410	138	85	0	0	0	0	0	4226	85	0	4226
11	2.6	70.4	80	0	339	193	3078	125	81	0	0	0	0	0	3815	81	0	3815
12	4.1	67.2	74	0	312	178	2840	115	78	0	0	0	0	0	3519	78	0	3519
13	4.6	66.8	72	0	304	173	2760	112	77	0	0	0	0	0	3421	77	0	3421
14	4.5	67.3	72	0	305	174	2776	112	77	0	0	0	0	0	3439	77	0	3439
15	4.0	67.7	75	0	314	179	2856	116	78	0	0	0	0	0	3540	78	0	3540
16	3.3	69.1	77	0	326	186	2966	120	80	0	0	0	0	0	3675	80	0	3675

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prizemlje- 013	1	1	1	Others	9.9	3.7	2	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	1654	0	13	112	152	230	0	0	1996	165	0	2161
7	27.4	57.2	16	0	42	8	1964	3	16	112	152	230	0	0	2375	168	0	2543
8	29.2	53.5	68	0	94	19	2088	8	19	112	152	230	0	0	2619	171	0	2790
* 9	31.1	49.3	128	0	150	30	1988	12	21	112	152	230	0	0	2650	173	0	2823
10	32.8	46.1	186	0	200	40	1598	16	24	112	152	230	0	0	2382	176	0	2558
11	34.3	42.9	235	0	244	49	1000	20	25	112	152	230	0	0	1890	177	0	2067
12	35.2	41.1	270	0	271	54	786	22	26	112	152	230	0	0	1745	178	0	1923
13	35.6	40.2	275	0	283	57	784	23	26	112	152	230	0	0	1764	178	0	1942
14	35.4	40.7	262	0	277	55	742	23	26	112	152	230	0	0	1701	178	0	1879
15	34.7	42.3	242	0	257	51	662	21	26	112	152	230	0	0	1575	178	0	1753
16	33.7	44.1	219	0	227	45	556	19	24	112	152	230	0	0	1408	176	0	1584

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	515	0	745	149	950	96	56	0	0	0	0	0	2455	56	0	2455
* 7	-3.6	86.1	521	0	755	151	962	97	56	0	0	0	0	0	2486	56	0	2486
8	-3.0	81.8	509	0	737	148	940	95	56	0	0	0	0	0	2429	56	0	2429
9	-1.5	81.1	479	0	692	139	882	89	53	0	0	0	0	0	2281	53	0	2281
10	0.5	76.7	438	0	634	127	808	82	50	0	0	0	0	0	2089	50	0	2089
11	2.6	70.4	395	0	572	114	728	74	48	0	0	0	0	0	1883	48	0	1883
12	4.1	67.2	365	0	527	106	672	68	46	0	0	0	0	0	1738	46	0	1738
13	4.6	66.8	354	0	513	103	654	66	45	0	0	0	0	0	1690	45	0	1690
14	4.5	67.3	356	0	516	103	658	67	45	0	0	0	0	0	1700	45	0	1700
15	4.0	67.7	367	0	530	106	676	69	46	0	0	0	0	0	1748	46	0	1748
16	3.3	69.1	381	0	551	110	702	71	47	0	0	0	0	0	1815	47	0	1815

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 101	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	974	0	34	168	228	603	0	0	1745	262	0	2007
7	27.4	57.2	0	0	26	0	1480	9	42	168	228	603	0	0	2286	270	0	2556
8	29.2	53.5	12	0	60	0	2160	20	50	168	228	603	0	0	3023	278	0	3301
9	31.1	49.3	64	0	95	0	2842	32	56	168	228	603	0	0	3804	284	0	4088
10	32.8	46.1	129	0	127	0	3400	43	63	168	228	603	0	0	4470	291	0	4761
11	34.3	42.9	208	0	154	0	3828	53	66	168	228	603	0	0	5014	294	0	5308
12	35.2	41.1	301	0	171	0	4094	58	67	168	228	603	0	0	5395	295	0	5690
13	35.6	40.2	383	0	179	0	6150	61	67	168	228	603	0	0	7544	295	0	7839
14	35.4	40.7	454	0	175	0	8596	60	67	168	228	603	0	0	10056	295	0	10351
15	34.7	42.3	523	0	162	0	9926	55	67	168	228	603	0	0	11437	295	0	11732
*16	33.7	44.1	576	0	143	0	10006	49	64	168	228	603	0	0	11545	292	0	11837

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1821	0	471	0	5116	265	154	0	0	0	0	0	7673	154	0	7673
* 7	-3.6	86.1	1842	0	476	0	5178	268	154	0	0	0	0	0	7764	154	0	7764
8	-3.0	81.8	1798	0	465	0	5056	262	154	0	0	0	0	0	7581	154	0	7581
9	-1.5	81.1	1691	0	437	0	4754	246	146	0	0	0	0	0	7128	146	0	7128
10	0.5	76.7	1547	0	400	0	4350	225	138	0	0	0	0	0	6522	138	0	6522
11	2.6	70.4	1396	0	361	0	3924	203	133	0	0	0	0	0	5884	133	0	5884
12	4.1	67.2	1288	0	333	0	3620	188	127	0	0	0	0	0	5429	127	0	5429
13	4.6	66.8	1252	0	324	0	3520	182	125	0	0	0	0	0	5278	125	0	5278
14	4.5	67.3	1259	0	326	0	3540	183	125	0	0	0	0	0	5308	125	0	5308
15	4.0	67.7	1295	0	335	0	3642	189	127	0	0	0	0	0	5461	127	0	5461
16	3.3	69.1	1345	0	348	0	3782	196	130	0	0	0	0	0	5671	130	0	5671

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 102	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 103	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 104	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 105	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 106	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 107	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 108	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	26	0	1194	9	42	168	228	603	0	0	2000	270	0	2270
8	29.2	53.5	0	0	60	0	1776	20	50	168	228	603	0	0	2627	278	0	2905
9	31.1	49.3	0	0	95	0	2334	32	56	168	228	603	0	0	3232	284	0	3516
10	32.8	46.1	6	0	127	0	2792	43	63	168	228	603	0	0	3739	291	0	4030
11	34.3	42.9	15	0	154	0	3146	53	66	168	228	603	0	0	4139	294	0	4433
12	35.2	41.1	26	0	171	0	3374	58	67	168	228	603	0	0	4400	295	0	4695
13	35.6	40.2	38	0	179	0	5434	61	67	168	228	603	0	0	6483	295	0	6778
14	35.4	40.7	51	0	175	0	7916	60	67	168	228	603	0	0	8973	295	0	9268
15	34.7	42.3	67	0	162	0	9320	55	67	168	228	603	0	0	10375	295	0	10670
*16	33.7	44.1	85	0	143	0	9498	49	64	168	228	603	0	0	10546	292	0	10838

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	194	0	471	0	4204	265	154	0	0	0	0	0	5134	154	0	5134
* 7	-3.6	86.1	196	0	476	0	4254	268	154	0	0	0	0	0	5194	154	0	5194
8	-3.0	81.8	191	0	465	0	4154	262	154	0	0	0	0	0	5072	154	0	5072
9	-1.5	81.1	180	0	437	0	3906	246	146	0	0	0	0	0	4769	146	0	4769
10	0.5	76.7	165	0	400	0	3574	225	138	0	0	0	0	0	4364	138	0	4364
11	2.6	70.4	149	0	361	0	3224	203	133	0	0	0	0	0	3937	133	0	3937
12	4.1	67.2	137	0	333	0	2974	188	127	0	0	0	0	0	3632	127	0	3632
13	4.6	66.8	133	0	324	0	2892	182	125	0	0	0	0	0	3531	125	0	3531
14	4.5	67.3	134	0	326	0	2908	183	125	0	0	0	0	0	3551	125	0	3551
15	4.0	67.7	138	0	335	0	2992	189	127	0	0	0	0	0	3654	127	0	3654
16	3.3	69.1	143	0	348	0	3108	196	130	0	0	0	0	0	3795	130	0	3795

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Prvi sprat- 109	2	1	1	Others	26.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	34	168	228	603	0	0	1389	262	0	1651
7	27.4	57.2	0	0	5	0	1194	9	42	168	228	603	0	0	1979	270	0	2249
8	29.2	53.5	0	0	12	0	1776	20	50	168	228	603	0	0	2579	278	0	2857
9	31.1	49.3	0	0	20	0	2334	32	56	168	228	603	0	0	3157	284	0	3441
10	32.8	46.1	64	0	26	0	2792	43	63	168	228	603	0	0	3696	291	0	3987
11	34.3	42.9	179	0	32	0	3146	53	66	168	228	603	0	0	4181	294	0	4475
12	35.2	41.1	321	0	36	0	3374	58	67	168	228	603	0	0	4560	295	0	4855
13	35.6	40.2	468	0	37	0	5434	61	67	168	228	603	0	0	6771	295	0	7066
14	35.4	40.7	597	0	36	0	7916	60	67	168	228	603	0	0	9380	295	0	9675
15	34.7	42.3	700	0	34	0	9320	55	67	168	228	603	0	0	10880	295	0	11175
*16	33.7	44.1	756	0	30	0	9498	49	64	168	228	603	0	0	11104	292	0	11396

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1416	0	98	0	4204	265	154	0	0	0	0	0	5983	154	0	5983
* 7	-3.6	86.1	1433	0	99	0	4254	268	154	0	0	0	0	0	6054	154	0	6054
8	-3.0	81.8	1399	0	97	0	4154	262	154	0	0	0	0	0	5912	154	0	5912
9	-1.5	81.1	1315	0	91	0	3906	246	146	0	0	0	0	0	5558	146	0	5558
10	0.5	76.7	1204	0	83	0	3574	225	138	0	0	0	0	0	5086	138	0	5086
11	2.6	70.4	1086	0	75	0	3224	203	133	0	0	0	0	0	4588	133	0	4588
12	4.1	67.2	1002	0	69	0	2974	188	127	0	0	0	0	0	4233	127	0	4233
13	4.6	66.8	974	0	67	0	2892	182	125	0	0	0	0	0	4115	125	0	4115
14	4.5	67.3	979	0	68	0	2908	183	125	0	0	0	0	0	4138	125	0	4138
15	4.0	67.7	1008	0	70	0	2992	189	127	0	0	0	0	0	4259	127	0	4259
16	3.3	69.1	1046	0	73	0	3108	196	130	0	0	0	0	0	4423	130	0	4423

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 201	3	1	1	Others	55.0	3.7	5	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	1372	0	72	280	380	1276	0	0	2928	452	0	3380
7	27.4	57.2	0	0	20	0	2648	19	88	280	380	1276	0	0	4243	468	0	4711
8	29.2	53.5	0	0	45	0	3962	43	105	280	380	1276	0	0	5606	485	0	6091
9	31.1	49.3	0	0	71	0	5386	68	118	280	380	1276	0	0	7081	498	0	7579
10	32.8	46.1	79	0	95	0	6646	91	133	280	380	1276	0	0	8467	513	0	8980
11	34.3	42.9	223	0	116	0	7592	111	139	280	380	1276	0	0	9598	519	0	10117
12	35.2	41.1	397	0	128	0	8138	124	142	280	380	1276	0	0	10343	522	0	10865
13	35.6	40.2	577	0	134	0	12176	129	142	280	380	1276	0	0	14572	522	0	15094
14	35.4	40.7	740	0	131	0	16864	126	143	280	380	1276	0	0	19417	523	0	19940
15	34.7	42.3	873	0	121	0	19364	117	143	280	380	1276	0	0	22031	523	0	22554
*16	33.7	44.1	955	0	107	0	19500	103	136	280	380	1276	0	0	22221	516	0	22737

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1816	0	353	0	9240	561	326	0	0	0	0	0	11970	326	0	11970
* 7	-3.6	86.1	1837	0	357	0	9350	567	326	0	0	0	0	0	12111	326	0	12111
8	-3.0	81.8	1794	0	349	0	9130	554	326	0	0	0	0	0	11827	326	0	11827
9	-1.5	81.1	1686	0	328	0	8582	521	309	0	0	0	0	0	11117	309	0	11117
10	0.5	76.7	1542	0	300	0	7852	476	292	0	0	0	0	0	10170	292	0	10170
11	2.6	70.4	1392	0	271	0	7084	430	281	0	0	0	0	0	9177	281	0	9177
12	4.1	67.2	1284	0	250	0	6538	397	270	0	0	0	0	0	8469	270	0	8469
13	4.6	66.8	1249	0	243	0	6354	386	264	0	0	0	0	0	8232	264	0	8232
14	4.5	67.3	1256	0	244	0	6390	388	264	0	0	0	0	0	8278	264	0	8278
15	4.0	67.7	1292	0	251	0	6574	399	270	0	0	0	0	0	8516	270	0	8516
16	3.3	69.1	1341	0	261	0	6830	414	275	0	0	0	0	0	8846	275	0	8846

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 202	3	1	1	Others	27.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	35	168	228	626	0	0	1412	263	0	1675
7	27.4	57.2	0	0	25	0	1194	9	43	168	228	626	0	0	2022	271	0	2293
8	29.2	53.5	0	0	57	0	1776	21	52	168	228	626	0	0	2648	280	0	2928
9	31.1	49.3	0	0	91	0	2334	34	58	168	228	626	0	0	3253	286	0	3539
10	32.8	46.1	4	0	121	0	2792	45	65	168	228	626	0	0	3756	293	0	4049
11	34.3	42.9	11	0	148	0	3146	55	68	168	228	626	0	0	4154	296	0	4450
12	35.2	41.1	19	0	164	0	3374	61	70	168	228	626	0	0	4412	298	0	4710
13	35.6	40.2	27	0	171	0	5434	63	70	168	228	626	0	0	6489	298	0	6787
14	35.4	40.7	36	0	168	0	7916	62	70	168	228	626	0	0	8976	298	0	9274
15	34.7	42.3	48	0	155	0	9320	57	70	168	228	626	0	0	10374	298	0	10672
*16	33.7	44.1	60	0	137	0	9498	51	67	168	228	626	0	0	10540	295	0	10835

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	138	0	451	0	4204	275	160	0	0	0	0	0	5068	160	0	5068
* 7	-3.6	86.1	139	0	457	0	4254	279	160	0	0	0	0	0	5129	160	0	5129
8	-3.0	81.8	136	0	446	0	4154	272	160	0	0	0	0	0	5008	160	0	5008
9	-1.5	81.1	128	0	419	0	3906	256	152	0	0	0	0	0	4709	152	0	4709
10	0.5	76.7	117	0	383	0	3574	234	143	0	0	0	0	0	4308	143	0	4308
11	2.6	70.4	106	0	346	0	3224	211	138	0	0	0	0	0	3887	138	0	3887
12	4.1	67.2	97	0	319	0	2974	195	132	0	0	0	0	0	3585	132	0	3585
13	4.6	66.8	95	0	310	0	2892	189	130	0	0	0	0	0	3486	130	0	3486
14	4.5	67.3	95	0	312	0	2908	190	130	0	0	0	0	0	3505	130	0	3505
15	4.0	67.7	98	0	321	0	2992	196	132	0	0	0	0	0	3607	132	0	3607
16	3.3	69.1	102	0	334	0	3108	203	135	0	0	0	0	0	3747	135	0	3747

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 203	3	1	1	Others	53.0	3.7	5	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	1238	0	69	280	380	1230	0	0	2748	449	0	3197
7	27.4	57.2	0	0	41	0	2388	18	85	280	380	1230	0	0	3957	465	0	4422
8	29.2	53.5	0	0	94	0	3550	41	102	280	380	1230	0	0	5195	482	0	5677
9	31.1	49.3	0	0	150	0	4672	66	114	280	380	1230	0	0	6398	494	0	6892
10	32.8	46.1	11	0	200	0	5584	88	128	280	380	1230	0	0	7393	508	0	7901
11	34.3	42.9	31	0	245	0	6292	107	134	280	380	1230	0	0	8185	514	0	8699
12	35.2	41.1	53	0	271	0	6746	119	137	280	380	1230	0	0	8699	517	0	9216
13	35.6	40.2	75	0	283	0	10870	124	137	280	380	1230	0	0	12862	517	0	13379
14	35.4	40.7	102	0	277	0	15830	122	138	280	380	1230	0	0	17841	518	0	18359
15	34.7	42.3	134	0	256	0	18640	113	138	280	380	1230	0	0	20653	518	0	21171
*16	33.7	44.1	170	0	227	0	18992	100	131	280	380	1230	0	0	20999	511	0	21510

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	388	0	746	0	8410	540	314	0	0	0	0	0	10084	314	0	10084
* 7	-3.6	86.1	392	0	754	0	8510	547	314	0	0	0	0	0	10203	314	0	10203
8	-3.0	81.8	383	0	737	0	8310	534	314	0	0	0	0	0	9964	314	0	9964
9	-1.5	81.1	360	0	693	0	7812	502	298	0	0	0	0	0	9367	298	0	9367
10	0.5	76.7	329	0	634	0	7146	459	281	0	0	0	0	0	8568	281	0	8568
11	2.6	70.4	297	0	572	0	6448	414	271	0	0	0	0	0	7731	271	0	7731
12	4.1	67.2	274	0	528	0	5950	382	260	0	0	0	0	0	7134	260	0	7134
13	4.6	66.8	267	0	513	0	5784	372	254	0	0	0	0	0	6936	254	0	6936
14	4.5	67.3	268	0	516	0	5816	374	254	0	0	0	0	0	6974	254	0	6974
15	4.0	67.7	276	0	530	0	5984	384	260	0	0	0	0	0	7174	260	0	7174
16	3.3	69.1	286	0	551	0	6216	399	265	0	0	0	0	0	7452	265	0	7452

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 204	3	1	1	Others	27.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	35	168	228	626	0	0	1412	263	0	1675
7	27.4	57.2	0	0	25	0	1194	9	43	168	228	626	0	0	2022	271	0	2293
8	29.2	53.5	0	0	57	0	1776	21	52	168	228	626	0	0	2648	280	0	2928
9	31.1	49.3	0	0	91	0	2334	34	58	168	228	626	0	0	3253	286	0	3539
10	32.8	46.1	4	0	121	0	2792	45	65	168	228	626	0	0	3756	293	0	4049
11	34.3	42.9	11	0	148	0	3146	55	68	168	228	626	0	0	4154	296	0	4450
12	35.2	41.1	19	0	164	0	3374	61	70	168	228	626	0	0	4412	298	0	4710
13	35.6	40.2	27	0	171	0	5434	63	70	168	228	626	0	0	6489	298	0	6787
14	35.4	40.7	36	0	168	0	7916	62	70	168	228	626	0	0	8976	298	0	9274
15	34.7	42.3	48	0	155	0	9320	57	70	168	228	626	0	0	10374	298	0	10672
*16	33.7	44.1	60	0	137	0	9498	51	67	168	228	626	0	0	10540	295	0	10835

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	138	0	451	0	4204	275	160	0	0	0	0	0	5068	160	0	5068
* 7	-3.6	86.1	139	0	457	0	4254	279	160	0	0	0	0	0	5129	160	0	5129
8	-3.0	81.8	136	0	446	0	4154	272	160	0	0	0	0	0	5008	160	0	5008
9	-1.5	81.1	128	0	419	0	3906	256	152	0	0	0	0	0	4709	152	0	4709
10	0.5	76.7	117	0	383	0	3574	234	143	0	0	0	0	0	4308	143	0	4308
11	2.6	70.4	106	0	346	0	3224	211	138	0	0	0	0	0	3887	138	0	3887
12	4.1	67.2	97	0	319	0	2974	195	132	0	0	0	0	0	3585	132	0	3585
13	4.6	66.8	95	0	310	0	2892	189	130	0	0	0	0	0	3486	130	0	3486
14	4.5	67.3	95	0	312	0	2908	190	130	0	0	0	0	0	3505	130	0	3505
15	4.0	67.7	98	0	321	0	2992	196	132	0	0	0	0	0	3607	132	0	3607
16	3.3	69.1	102	0	334	0	3108	203	135	0	0	0	0	0	3747	135	0	3747

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 205	3	1	1	Others	27.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	35	168	228	626	0	0	1412	263	0	1675
7	27.4	57.2	0	0	25	0	1194	9	43	168	228	626	0	0	2022	271	0	2293
8	29.2	53.5	0	0	57	0	1776	21	52	168	228	626	0	0	2648	280	0	2928
9	31.1	49.3	0	0	91	0	2334	34	58	168	228	626	0	0	3253	286	0	3539
10	32.8	46.1	4	0	121	0	2792	45	65	168	228	626	0	0	3756	293	0	4049
11	34.3	42.9	11	0	148	0	3146	55	68	168	228	626	0	0	4154	296	0	4450
12	35.2	41.1	19	0	164	0	3374	61	70	168	228	626	0	0	4412	298	0	4710
13	35.6	40.2	27	0	171	0	5434	63	70	168	228	626	0	0	6489	298	0	6787
14	35.4	40.7	36	0	168	0	7916	62	70	168	228	626	0	0	8976	298	0	9274
15	34.7	42.3	48	0	155	0	9320	57	70	168	228	626	0	0	10374	298	0	10672
*16	33.7	44.1	60	0	137	0	9498	51	67	168	228	626	0	0	10540	295	0	10835

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	138	0	451	0	4204	275	160	0	0	0	0	0	5068	160	0	5068
* 7	-3.6	86.1	139	0	457	0	4254	279	160	0	0	0	0	0	5129	160	0	5129
8	-3.0	81.8	136	0	446	0	4154	272	160	0	0	0	0	0	5008	160	0	5008
9	-1.5	81.1	128	0	419	0	3906	256	152	0	0	0	0	0	4709	152	0	4709
10	0.5	76.7	117	0	383	0	3574	234	143	0	0	0	0	0	4308	143	0	4308
11	2.6	70.4	106	0	346	0	3224	211	138	0	0	0	0	0	3887	138	0	3887
12	4.1	67.2	97	0	319	0	2974	195	132	0	0	0	0	0	3585	132	0	3585
13	4.6	66.8	95	0	310	0	2892	189	130	0	0	0	0	0	3486	130	0	3486
14	4.5	67.3	95	0	312	0	2908	190	130	0	0	0	0	0	3505	130	0	3505
15	4.0	67.7	98	0	321	0	2992	196	132	0	0	0	0	0	3607	132	0	3607
16	3.3	69.1	102	0	334	0	3108	203	135	0	0	0	0	0	3747	135	0	3747

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 206	3	1	1	Others	27.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	35	168	228	626	0	0	1412	263	0	1675
7	27.4	57.2	0	0	25	0	1194	9	43	168	228	626	0	0	2022	271	0	2293
8	29.2	53.5	0	0	57	0	1776	21	52	168	228	626	0	0	2648	280	0	2928
9	31.1	49.3	0	0	91	0	2334	34	58	168	228	626	0	0	3253	286	0	3539
10	32.8	46.1	4	0	121	0	2792	45	65	168	228	626	0	0	3756	293	0	4049
11	34.3	42.9	11	0	148	0	3146	55	68	168	228	626	0	0	4154	296	0	4450
12	35.2	41.1	19	0	164	0	3374	61	70	168	228	626	0	0	4412	298	0	4710
13	35.6	40.2	27	0	171	0	5434	63	70	168	228	626	0	0	6489	298	0	6787
14	35.4	40.7	36	0	168	0	7916	62	70	168	228	626	0	0	8976	298	0	9274
15	34.7	42.3	48	0	155	0	9320	57	70	168	228	626	0	0	10374	298	0	10672
*16	33.7	44.1	60	0	137	0	9498	51	67	168	228	626	0	0	10540	295	0	10835

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	138	0	451	0	4204	275	160	0	0	0	0	0	5068	160	0	5068
* 7	-3.6	86.1	139	0	457	0	4254	279	160	0	0	0	0	0	5129	160	0	5129
8	-3.0	81.8	136	0	446	0	4154	272	160	0	0	0	0	0	5008	160	0	5008
9	-1.5	81.1	128	0	419	0	3906	256	152	0	0	0	0	0	4709	152	0	4709
10	0.5	76.7	117	0	383	0	3574	234	143	0	0	0	0	0	4308	143	0	4308
11	2.6	70.4	106	0	346	0	3224	211	138	0	0	0	0	0	3887	138	0	3887
12	4.1	67.2	97	0	319	0	2974	195	132	0	0	0	0	0	3585	132	0	3585
13	4.6	66.8	95	0	310	0	2892	189	130	0	0	0	0	0	3486	130	0	3486
14	4.5	67.3	95	0	312	0	2908	190	130	0	0	0	0	0	3505	130	0	3505
15	4.0	67.7	98	0	321	0	2992	196	132	0	0	0	0	0	3607	132	0	3607
16	3.3	69.1	102	0	334	0	3108	203	135	0	0	0	0	0	3747	135	0	3747

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 207	3	1	1	Others	27.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	618	0	35	168	228	626	0	0	1412	263	0	1675
7	27.4	57.2	0	0	25	0	1194	9	43	168	228	626	0	0	2022	271	0	2293
8	29.2	53.5	0	0	57	0	1776	21	52	168	228	626	0	0	2648	280	0	2928
9	31.1	49.3	0	0	91	0	2334	34	58	168	228	626	0	0	3253	286	0	3539
10	32.8	46.1	87	0	121	0	2792	45	65	168	228	626	0	0	3839	293	0	4132
11	34.3	42.9	247	0	148	0	3146	55	68	168	228	626	0	0	4390	296	0	4686
12	35.2	41.1	443	0	164	0	3374	61	70	168	228	626	0	0	4836	298	0	5134
13	35.6	40.2	645	0	171	0	5434	63	70	168	228	626	0	0	7107	298	0	7405
14	35.4	40.7	821	0	168	0	7916	62	70	168	228	626	0	0	9761	298	0	10059
15	34.7	42.3	958	0	155	0	9320	57	70	168	228	626	0	0	11284	298	0	11582
*16	33.7	44.1	1025	0	137	0	9498	51	67	168	228	626	0	0	11505	295	0	11800

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1895	0	451	0	4204	275	160	0	0	0	0	0	6825	160	0	6825
* 7	-3.6	86.1	1917	0	457	0	4254	279	160	0	0	0	0	0	6907	160	0	6907
8	-3.0	81.8	1872	0	446	0	4154	272	160	0	0	0	0	0	6744	160	0	6744
9	-1.5	81.1	1760	0	419	0	3906	256	152	0	0	0	0	0	6341	152	0	6341
10	0.5	76.7	1610	0	383	0	3574	234	143	0	0	0	0	0	5801	143	0	5801
11	2.6	70.4	1453	0	346	0	3224	211	138	0	0	0	0	0	5234	138	0	5234
12	4.1	67.2	1340	0	319	0	2974	195	132	0	0	0	0	0	4828	132	0	4828
13	4.6	66.8	1303	0	310	0	2892	189	130	0	0	0	0	0	4694	130	0	4694
14	4.5	67.3	1310	0	312	0	2908	190	130	0	0	0	0	0	4720	130	0	4720
15	4.0	67.7	1348	0	321	0	2992	196	132	0	0	0	0	0	4857	132	0	4857
16	3.3	69.1	1401	0	334	0	3108	203	135	0	0	0	0	0	5046	135	0	5046

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Drugi sprat- 208	3	1	1	Others	19.5	3.7	2	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	1516	0	25	112	152	452	0	0	2080	177	0	2257
7	27.4	57.2	23	0	0	0	1800	7	31	112	152	452	0	0	2394	183	0	2577
8	29.2	53.5	102	0	0	0	1914	15	37	112	152	452	0	0	2595	189	0	2784
* 9	31.1	49.3	193	0	0	0	1824	24	42	112	152	452	0	0	2605	194	0	2799
10	32.8	46.1	362	0	0	0	1464	32	47	112	152	452	0	0	2422	199	0	2621
11	34.3	42.9	583	0	0	0	916	40	49	112	152	452	0	0	2103	201	0	2304
12	35.2	41.1	818	0	0	0	720	44	50	112	152	452	0	0	2146	202	0	2348
13	35.6	40.2	1016	0	0	0	716	46	50	112	152	452	0	0	2342	202	0	2544
14	35.4	40.7	1157	0	0	0	680	45	51	112	152	452	0	0	2446	203	0	2649
15	34.7	42.3	1249	0	0	0	606	41	51	112	152	452	0	0	2460	203	0	2663
16	33.7	44.1	1268	0	0	0	508	37	48	112	152	452	0	0	2377	200	0	2577

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2483	0	0	0	872	190	110	0	0	0	0	0	3545	110	0	3545
* 7	-3.6	86.1	2513	0	0	0	882	192	110	0	0	0	0	0	3587	110	0	3587
8	-3.0	81.8	2454	0	0	0	862	187	110	0	0	0	0	0	3503	110	0	3503
9	-1.5	81.1	2307	0	0	0	810	176	105	0	0	0	0	0	3293	105	0	3293
10	0.5	76.7	2111	0	0	0	740	161	99	0	0	0	0	0	3012	99	0	3012
11	2.6	70.4	1904	0	0	0	668	145	95	0	0	0	0	0	2717	95	0	2717
12	4.1	67.2	1757	0	0	0	616	134	91	0	0	0	0	0	2507	91	0	2507
13	4.6	66.8	1708	0	0	0	600	130	89	0	0	0	0	0	2438	89	0	2438
14	4.5	67.3	1718	0	0	0	602	131	89	0	0	0	0	0	2451	89	0	2451
15	4.0	67.7	1767	0	0	0	620	135	91	0	0	0	0	0	2522	91	0	2522
16	3.3	69.1	1836	0	0	0	644	140	93	0	0	0	0	0	2620	93	0	2620

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 301	4	1	1	Others	30.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	656	0	39	168	228	696	0	0	1520	267	0	1787
7	27.4	57.2	0	0	5	0	830	10	48	168	228	696	0	0	1709	276	0	1985
8	29.2	53.5	12	0	12	0	1190	23	58	168	228	696	0	0	2101	286	0	2387
9	31.1	49.3	67	0	20	0	1566	37	65	168	228	696	0	0	2554	293	0	2847
10	32.8	46.1	153	0	26	0	1874	50	72	168	228	696	0	0	2967	300	0	3267
11	34.3	42.9	271	0	32	0	2112	61	76	168	228	696	0	0	3340	304	0	3644
12	35.2	41.1	408	0	36	0	2252	67	77	168	228	696	0	0	3627	305	0	3932
13	35.6	40.2	533	0	37	0	3144	70	77	168	228	696	0	0	4648	305	0	4953
14	35.4	40.7	655	0	36	0	4178	69	78	168	228	696	0	0	5802	306	0	6108
15	34.7	42.3	784	0	34	0	4708	64	78	168	228	696	0	0	6454	306	0	6760
*16	33.7	44.1	905	0	30	0	4680	56	74	168	228	696	0	0	6535	302	0	6837

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2793	0	98	0	3044	306	178	0	0	0	0	0	6241	178	0	6241
* 7	-3.6	86.1	2825	0	99	0	3078	309	178	0	0	0	0	0	6311	178	0	6311
8	-3.0	81.8	2558	0	97	0	2788	302	178	0	0	0	0	0	5745	178	0	5745
9	-1.5	81.1	2405	0	91	0	2622	284	168	0	0	0	0	0	5402	168	0	5402
10	0.5	76.7	2201	0	83	0	2398	260	159	0	0	0	0	0	4942	159	0	4942
11	2.6	70.4	1985	0	75	0	2164	235	153	0	0	0	0	0	4459	153	0	4459
12	4.1	67.2	1831	0	69	0	1996	216	147	0	0	0	0	0	4112	147	0	4112
13	4.6	66.8	1781	0	67	0	1940	210	144	0	0	0	0	0	3998	144	0	3998
14	4.5	67.3	1791	0	68	0	1950	212	144	0	0	0	0	0	4021	144	0	4021
15	4.0	67.7	1842	0	70	0	2006	218	147	0	0	0	0	0	4136	147	0	4136
16	3.3	69.1	1914	0	73	0	2086	226	150	0	0	0	0	0	4299	150	0	4299

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 302	4	1	1	Others	20.0	3.7	2	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	134	0	26	112	152	464	0	0	710	178	0	888
7	27.4	57.2	0	0	18	0	260	7	32	112	152	464	0	0	861	184	0	1045
8	29.2	53.5	0	0	42	0	384	16	38	112	152	464	0	0	1018	190	0	1208
9	31.1	49.3	0	0	67	0	508	25	43	112	152	464	0	0	1176	195	0	1371
10	32.8	46.1	15	0	90	0	608	33	48	112	152	464	0	0	1322	200	0	1522
11	34.3	42.9	40	0	109	0	682	41	50	112	152	464	0	0	1448	202	0	1650
12	35.2	41.1	69	0	121	0	732	45	52	112	152	464	0	0	1543	204	0	1747
13	35.6	40.2	98	0	127	0	1180	47	52	112	152	464	0	0	2028	204	0	2232
14	35.4	40.7	133	0	124	0	1718	46	52	112	152	464	0	0	2597	204	0	2801
15	34.7	42.3	175	0	115	0	2024	42	52	112	152	464	0	0	2932	204	0	3136
*16	33.7	44.1	222	0	102	0	2062	38	49	112	152	464	0	0	3000	201	0	3201

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	546	0	334	0	986	204	118	0	0	0	0	0	2070	118	0	2070
* 7	-3.6	86.1	552	0	338	0	996	206	118	0	0	0	0	0	2092	118	0	2092
8	-3.0	81.8	500	0	330	0	902	201	118	0	0	0	0	0	1933	118	0	1933
9	-1.5	81.1	470	0	310	0	848	189	112	0	0	0	0	0	1817	112	0	1817
10	0.5	76.7	430	0	283	0	776	173	106	0	0	0	0	0	1662	106	0	1662
11	2.6	70.4	388	0	256	0	700	156	102	0	0	0	0	0	1500	102	0	1500
12	4.1	67.2	358	0	236	0	646	144	98	0	0	0	0	0	1384	98	0	1384
13	4.6	66.8	348	0	229	0	628	140	96	0	0	0	0	0	1345	96	0	1345
14	4.5	67.3	350	0	231	0	632	141	96	0	0	0	0	0	1354	96	0	1354
15	4.0	67.7	360	0	237	0	650	145	98	0	0	0	0	0	1392	98	0	1392
16	3.3	69.1	374	0	247	0	674	151	100	0	0	0	0	0	1446	100	0	1446

Total heat load in heating is not contained latent heat.

F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 303	4	1	1	Others	23.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH)

[W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	268	0	30	168	228	534	0	0	970	258	0	1228
7	27.4	57.2	0	0	18	0	518	8	37	168	228	534	0	0	1246	265	0	1511
8	29.2	53.5	0	0	41	0	770	18	44	168	228	534	0	0	1531	272	0	1803
9	31.1	49.3	0	0	65	0	1014	29	49	168	228	534	0	0	1810	277	0	2087
10	32.8	46.1	20	0	87	0	1212	38	55	168	228	534	0	0	2059	283	0	2342
11	34.3	42.9	56	0	106	0	1366	47	58	168	228	534	0	0	2277	286	0	2563
12	35.2	41.1	96	0	118	0	1466	52	59	168	228	534	0	0	2434	287	0	2721
13	35.6	40.2	137	0	123	0	2360	54	59	168	228	534	0	0	3376	287	0	3663
14	35.4	40.7	185	0	120	0	3436	53	60	168	228	534	0	0	4496	288	0	4784
15	34.7	42.3	243	0	111	0	4046	49	60	168	228	534	0	0	5151	288	0	5439
*16	33.7	44.1	309	0	99	0	4124	43	57	168	228	534	0	0	5277	285	0	5562

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH)

[W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	760	0	324	0	1970	234	136	0	0	0	0	0	3288	136	0	3288
* 7	-3.6	86.1	769	0	328	0	1992	237	136	0	0	0	0	0	3326	136	0	3326
8	-3.0	81.8	696	0	320	0	1804	232	136	0	0	0	0	0	3052	136	0	3052
9	-1.5	81.1	655	0	301	0	1696	218	129	0	0	0	0	0	2870	129	0	2870
10	0.5	76.7	599	0	275	0	1552	199	122	0	0	0	0	0	2625	122	0	2625
11	2.6	70.4	540	0	248	0	1400	180	117	0	0	0	0	0	2368	117	0	2368
12	4.1	67.2	499	0	229	0	1292	166	113	0	0	0	0	0	2186	113	0	2186
13	4.6	66.8	485	0	223	0	1256	161	110	0	0	0	0	0	2125	110	0	2125
14	4.5	67.3	487	0	224	0	1262	162	110	0	0	0	0	0	2135	110	0	2135
15	4.0	67.7	501	0	230	0	1298	167	113	0	0	0	0	0	2196	113	0	2196
16	3.3	69.1	521	0	239	0	1350	173	115	0	0	0	0	0	2283	115	0	2283

Total heat load in heating is not contained latent heat.

F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 304	4	1	1	Others	20.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	134	0	26	168	228	464	0	0	766	254	0	1020
7	27.4	57.2	0	0	19	0	260	7	32	168	228	464	0	0	918	260	0	1178
8	29.2	53.5	0	0	43	0	384	16	38	168	228	464	0	0	1075	266	0	1341
9	31.1	49.3	0	0	69	0	508	25	43	168	228	464	0	0	1234	271	0	1505
10	32.8	46.1	17	0	92	0	608	33	48	168	228	464	0	0	1382	276	0	1658
11	34.3	42.9	47	0	113	0	682	41	50	168	228	464	0	0	1515	278	0	1793
12	35.2	41.1	81	0	125	0	732	45	52	168	228	464	0	0	1615	280	0	1895
13	35.6	40.2	115	0	130	0	1180	47	52	168	228	464	0	0	2104	280	0	2384
14	35.4	40.7	155	0	128	0	1718	46	52	168	228	464	0	0	2679	280	0	2959
15	34.7	42.3	204	0	118	0	2024	42	52	168	228	464	0	0	3020	280	0	3300
*16	33.7	44.1	259	0	105	0	2062	38	49	168	228	464	0	0	3096	277	0	3373

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	637	0	343	0	986	204	118	0	0	0	0	0	2170	118	0	2170
* 7	-3.6	86.1	644	0	347	0	996	206	118	0	0	0	0	0	2193	118	0	2193
8	-3.0	81.8	583	0	339	0	902	201	118	0	0	0	0	0	2025	118	0	2025
9	-1.5	81.1	548	0	319	0	848	189	112	0	0	0	0	0	1904	112	0	1904
10	0.5	76.7	502	0	292	0	776	173	106	0	0	0	0	0	1743	106	0	1743
11	2.6	70.4	453	0	263	0	700	156	102	0	0	0	0	0	1572	102	0	1572
12	4.1	67.2	418	0	243	0	646	144	98	0	0	0	0	0	1451	98	0	1451
13	4.6	66.8	406	0	236	0	628	140	96	0	0	0	0	0	1410	96	0	1410
14	4.5	67.3	408	0	238	0	632	141	96	0	0	0	0	0	1419	96	0	1419
15	4.0	67.7	420	0	244	0	650	145	98	0	0	0	0	0	1459	98	0	1459
16	3.3	69.1	436	0	254	0	674	151	100	0	0	0	0	0	1515	100	0	1515

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 305	4	1	1	Others	20.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	268	0	26	168	228	464	0	0	900	254	0	1154
7	27.4	57.2	0	0	19	0	518	7	32	168	228	464	0	0	1176	260	0	1436
8	29.2	53.5	0	0	43	0	770	16	38	168	228	464	0	0	1461	266	0	1727
9	31.1	49.3	0	0	69	0	1014	25	43	168	228	464	0	0	1740	271	0	2011
10	32.8	46.1	22	0	92	0	1212	33	48	168	228	464	0	0	1991	276	0	2267
11	34.3	42.9	60	0	113	0	1366	41	50	168	228	464	0	0	2212	278	0	2490
12	35.2	41.1	104	0	125	0	1466	45	52	168	228	464	0	0	2372	280	0	2652
13	35.6	40.2	148	0	130	0	2360	47	52	168	228	464	0	0	3317	280	0	3597
14	35.4	40.7	200	0	128	0	3436	46	52	168	228	464	0	0	4442	280	0	4722
15	34.7	42.3	262	0	118	0	4046	42	52	168	228	464	0	0	5100	280	0	5380
*16	33.7	44.1	333	0	105	0	4124	38	49	168	228	464	0	0	5232	277	0	5509

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	821	0	343	0	1970	204	118	0	0	0	0	0	3338	118	0	3338
* 7	-3.6	86.1	830	0	347	0	1992	206	118	0	0	0	0	0	3375	118	0	3375
8	-3.0	81.8	752	0	339	0	1804	201	118	0	0	0	0	0	3096	118	0	3096
9	-1.5	81.1	707	0	319	0	1696	189	112	0	0	0	0	0	2911	112	0	2911
10	0.5	76.7	646	0	292	0	1552	173	106	0	0	0	0	0	2663	106	0	2663
11	2.6	70.4	583	0	263	0	1400	156	102	0	0	0	0	0	2402	102	0	2402
12	4.1	67.2	538	0	243	0	1292	144	98	0	0	0	0	0	2217	98	0	2217
13	4.6	66.8	523	0	236	0	1256	140	96	0	0	0	0	0	2155	96	0	2155
14	4.5	67.3	526	0	238	0	1262	141	96	0	0	0	0	0	2167	96	0	2167
15	4.0	67.7	541	0	244	0	1298	145	98	0	0	0	0	0	2228	98	0	2228
16	3.3	69.1	562	0	254	0	1350	151	100	0	0	0	0	0	2317	100	0	2317

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 306	4	1	1	Others	30.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	268	0	39	168	228	696	0	0	1132	267	0	1399
7	27.4	57.2	0	0	25	0	518	10	48	168	228	696	0	0	1417	276	0	1693
8	29.2	53.5	0	0	57	0	770	23	58	168	228	696	0	0	1714	286	0	2000
9	31.1	49.3	0	0	91	0	1014	37	65	168	228	696	0	0	2006	293	0	2299
10	32.8	46.1	23	0	121	0	1212	50	72	168	228	696	0	0	2270	300	0	2570
11	34.3	42.9	62	0	148	0	1366	61	76	168	228	696	0	0	2501	304	0	2805
12	35.2	41.1	108	0	164	0	1466	67	77	168	228	696	0	0	2669	305	0	2974
13	35.6	40.2	153	0	171	0	2360	70	77	168	228	696	0	0	3618	305	0	3923
14	35.4	40.7	207	0	168	0	3436	69	78	168	228	696	0	0	4744	306	0	5050
15	34.7	42.3	272	0	155	0	4046	64	78	168	228	696	0	0	5401	306	0	5707
*16	33.7	44.1	346	0	137	0	4124	56	74	168	228	696	0	0	5527	302	0	5829

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	851	0	451	0	1970	306	178	0	0	0	0	0	3578	178	0	3578
* 7	-3.6	86.1	860	0	457	0	1992	309	178	0	0	0	0	0	3618	178	0	3618
8	-3.0	81.8	779	0	446	0	1804	302	178	0	0	0	0	0	3331	178	0	3331
9	-1.5	81.1	733	0	419	0	1696	284	168	0	0	0	0	0	3132	168	0	3132
10	0.5	76.7	670	0	383	0	1552	260	159	0	0	0	0	0	2865	159	0	2865
11	2.6	70.4	605	0	346	0	1400	235	153	0	0	0	0	0	2586	153	0	2586
12	4.1	67.2	558	0	319	0	1292	216	147	0	0	0	0	0	2385	147	0	2385
13	4.6	66.8	542	0	310	0	1256	210	144	0	0	0	0	0	2318	144	0	2318
14	4.5	67.3	546	0	312	0	1262	212	144	0	0	0	0	0	2332	144	0	2332
15	4.0	67.7	561	0	321	0	1298	218	147	0	0	0	0	0	2398	147	0	2398
16	3.3	69.1	583	0	334	0	1350	226	150	0	0	0	0	0	2493	150	0	2493

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 307	4	1	1	Others	20.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	134	0	26	168	228	464	0	0	766	254	0	1020
7	27.4	57.2	0	0	18	0	260	7	32	168	228	464	0	0	917	260	0	1177
8	29.2	53.5	0	0	41	0	384	16	38	168	228	464	0	0	1073	266	0	1339
9	31.1	49.3	0	0	65	0	508	25	43	168	228	464	0	0	1230	271	0	1501
10	32.8	46.1	14	0	87	0	608	33	48	168	228	464	0	0	1374	276	0	1650
11	34.3	42.9	38	0	106	0	682	41	50	168	228	464	0	0	1499	278	0	1777
12	35.2	41.1	65	0	118	0	732	45	52	168	228	464	0	0	1592	280	0	1872
13	35.6	40.2	93	0	123	0	1180	47	52	168	228	464	0	0	2075	280	0	2355
14	35.4	40.7	125	0	120	0	1718	46	52	168	228	464	0	0	2641	280	0	2921
15	34.7	42.3	165	0	111	0	2024	42	52	168	228	464	0	0	2974	280	0	3254
*16	33.7	44.1	210	0	99	0	2062	38	49	168	228	464	0	0	3041	277	0	3318

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	516	0	324	0	986	204	118	0	0	0	0	0	2030	118	0	2030
* 7	-3.6	86.1	522	0	328	0	996	206	118	0	0	0	0	0	2052	118	0	2052
8	-3.0	81.8	473	0	320	0	902	201	118	0	0	0	0	0	1896	118	0	1896
9	-1.5	81.1	444	0	301	0	848	189	112	0	0	0	0	0	1782	112	0	1782
10	0.5	76.7	407	0	275	0	776	173	106	0	0	0	0	0	1631	106	0	1631
11	2.6	70.4	367	0	248	0	700	156	102	0	0	0	0	0	1471	102	0	1471
12	4.1	67.2	338	0	229	0	646	144	98	0	0	0	0	0	1357	98	0	1357
13	4.6	66.8	329	0	223	0	628	140	96	0	0	0	0	0	1320	96	0	1320
14	4.5	67.3	331	0	224	0	632	141	96	0	0	0	0	0	1328	96	0	1328
15	4.0	67.7	340	0	230	0	650	145	98	0	0	0	0	0	1365	98	0	1365
16	3.3	69.1	354	0	239	0	674	151	100	0	0	0	0	0	1418	100	0	1418

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 308	4	1	1	Others	23.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	268	0	30	168	228	534	0	0	970	258	0	1228
7	27.4	57.2	0	0	18	0	518	8	37	168	228	534	0	0	1246	265	0	1511
8	29.2	53.5	0	0	42	0	770	18	44	168	228	534	0	0	1532	272	0	1804
9	31.1	49.3	0	0	67	0	1014	29	49	168	228	534	0	0	1812	277	0	2089
10	32.8	46.1	22	0	90	0	1212	38	55	168	228	534	0	0	2064	283	0	2347
11	34.3	42.9	60	0	109	0	1366	47	58	168	228	534	0	0	2284	286	0	2570
12	35.2	41.1	104	0	121	0	1466	52	59	168	228	534	0	0	2445	287	0	2732
13	35.6	40.2	148	0	127	0	2360	54	59	168	228	534	0	0	3391	287	0	3678
14	35.4	40.7	200	0	124	0	3436	53	60	168	228	534	0	0	4515	288	0	4803
15	34.7	42.3	262	0	115	0	4046	49	60	168	228	534	0	0	5174	288	0	5462
*16	33.7	44.1	333	0	102	0	4124	43	57	168	228	534	0	0	5304	285	0	5589

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	821	0	334	0	1970	234	136	0	0	0	0	0	3359	136	0	3359
* 7	-3.6	86.1	830	0	338	0	1992	237	136	0	0	0	0	0	3397	136	0	3397
8	-3.0	81.8	752	0	330	0	1804	232	136	0	0	0	0	0	3118	136	0	3118
9	-1.5	81.1	707	0	310	0	1696	218	129	0	0	0	0	0	2931	129	0	2931
10	0.5	76.7	646	0	283	0	1552	199	122	0	0	0	0	0	2680	122	0	2680
11	2.6	70.4	583	0	256	0	1400	180	117	0	0	0	0	0	2419	117	0	2419
12	4.1	67.2	538	0	236	0	1292	166	113	0	0	0	0	0	2232	113	0	2232
13	4.6	66.8	523	0	229	0	1256	161	110	0	0	0	0	0	2169	110	0	2169
14	4.5	67.3	526	0	231	0	1262	162	110	0	0	0	0	0	2181	110	0	2181
15	4.0	67.7	541	0	237	0	1298	167	113	0	0	0	0	0	2243	113	0	2243
16	3.3	69.1	562	0	247	0	1350	173	115	0	0	0	0	0	2332	115	0	2332

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 309	4	1	1	Others	20.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	134	0	26	168	228	464	0	0	766	254	0	1020
7	27.4	57.2	0	0	18	0	260	7	32	168	228	464	0	0	917	260	0	1177
8	29.2	53.5	0	0	42	0	384	16	38	168	228	464	0	0	1074	266	0	1340
9	31.1	49.3	0	0	67	0	508	25	43	168	228	464	0	0	1232	271	0	1503
10	32.8	46.1	16	0	90	0	608	33	48	168	228	464	0	0	1379	276	0	1655
11	34.3	42.9	44	0	109	0	682	41	50	168	228	464	0	0	1508	278	0	1786
12	35.2	41.1	77	0	121	0	732	45	52	168	228	464	0	0	1607	280	0	1887
13	35.6	40.2	109	0	127	0	1180	47	52	168	228	464	0	0	2095	280	0	2375
14	35.4	40.7	148	0	124	0	1718	46	52	168	228	464	0	0	2668	280	0	2948
15	34.7	42.3	194	0	115	0	2024	42	52	168	228	464	0	0	3007	280	0	3287
*16	33.7	44.1	247	0	102	0	2062	38	49	168	228	464	0	0	3081	277	0	3358

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	607	0	334	0	986	204	118	0	0	0	0	0	2131	118	0	2131
* 7	-3.6	86.1	614	0	338	0	996	206	118	0	0	0	0	0	2154	118	0	2154
8	-3.0	81.8	556	0	330	0	902	201	118	0	0	0	0	0	1989	118	0	1989
9	-1.5	81.1	522	0	310	0	848	189	112	0	0	0	0	0	1869	112	0	1869
10	0.5	76.7	478	0	283	0	776	173	106	0	0	0	0	0	1710	106	0	1710
11	2.6	70.4	431	0	256	0	700	156	102	0	0	0	0	0	1543	102	0	1543
12	4.1	67.2	398	0	236	0	646	144	98	0	0	0	0	0	1424	98	0	1424
13	4.6	66.8	387	0	229	0	628	140	96	0	0	0	0	0	1384	96	0	1384
14	4.5	67.3	389	0	231	0	632	141	96	0	0	0	0	0	1393	96	0	1393
15	4.0	67.7	400	0	237	0	650	145	98	0	0	0	0	0	1432	98	0	1432
16	3.3	69.1	416	0	247	0	674	151	100	0	0	0	0	0	1488	100	0	1488

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 310	4	1	1	Others	23.0	3.7	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH)

[W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	268	0	30	168	228	534	0	0	970	258	0	1228
7	27.4	57.2	0	0	19	0	518	8	37	168	228	534	0	0	1247	265	0	1512
8	29.2	53.5	0	0	43	0	770	18	44	168	228	534	0	0	1533	272	0	1805
9	31.1	49.3	0	0	69	0	1014	29	49	168	228	534	0	0	1814	277	0	2091
10	32.8	46.1	20	0	92	0	1212	38	55	168	228	534	0	0	2064	283	0	2347
11	34.3	42.9	56	0	113	0	1366	47	58	168	228	534	0	0	2284	286	0	2570
12	35.2	41.1	96	0	125	0	1466	52	59	168	228	534	0	0	2441	287	0	2728
13	35.6	40.2	137	0	130	0	2360	54	59	168	228	534	0	0	3383	287	0	3670
14	35.4	40.7	185	0	128	0	3436	53	60	168	228	534	0	0	4504	288	0	4792
15	34.7	42.3	243	0	118	0	4046	49	60	168	228	534	0	0	5158	288	0	5446
*16	33.7	44.1	309	0	105	0	4124	43	57	168	228	534	0	0	5283	285	0	5568

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH)

[W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	760	0	343	0	1970	234	136	0	0	0	0	0	3307	136	0	3307
* 7	-3.6	86.1	769	0	347	0	1992	237	136	0	0	0	0	0	3345	136	0	3345
8	-3.0	81.8	696	0	339	0	1804	232	136	0	0	0	0	0	3071	136	0	3071
9	-1.5	81.1	655	0	319	0	1696	218	129	0	0	0	0	0	2888	129	0	2888
10	0.5	76.7	599	0	292	0	1552	199	122	0	0	0	0	0	2642	122	0	2642
11	2.6	70.4	540	0	263	0	1400	180	117	0	0	0	0	0	2383	117	0	2383
12	4.1	67.2	499	0	243	0	1292	166	113	0	0	0	0	0	2200	113	0	2200
13	4.6	66.8	485	0	236	0	1256	161	110	0	0	0	0	0	2138	110	0	2138
14	4.5	67.3	487	0	238	0	1262	162	110	0	0	0	0	0	2149	110	0	2149
15	4.0	67.7	501	0	244	0	1298	167	113	0	0	0	0	0	2210	113	0	2210
16	3.3	69.1	521	0	254	0	1350	173	115	0	0	0	0	0	2298	115	0	2298

Total heat load in heating is not contained latent heat.

F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Treci sprat - 311	4	1	1	Others	30.0	3.7	4	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	268	0	39	224	304	696	0	0	1188	343	0	1531
7	27.4	57.2	0	0	28	0	518	10	48	224	304	696	0	0	1476	352	0	1828
8	29.2	53.5	0	0	65	0	770	23	58	224	304	696	0	0	1778	362	0	2140
9	31.1	49.3	0	0	103	0	1014	37	65	224	304	696	0	0	2074	369	0	2443
10	32.8	46.1	28	0	137	0	1212	50	72	224	304	696	0	0	2347	376	0	2723
11	34.3	42.9	76	0	167	0	1366	61	76	224	304	696	0	0	2590	380	0	2970
12	35.2	41.1	131	0	186	0	1466	67	77	224	304	696	0	0	2770	381	0	3151
13	35.6	40.2	186	0	194	0	2360	70	77	224	304	696	0	0	3730	381	0	4111
14	35.4	40.7	251	0	190	0	3436	69	78	224	304	696	0	0	4866	382	0	5248
15	34.7	42.3	330	0	175	0	4046	64	78	224	304	696	0	0	5535	382	0	5917
*16	33.7	44.1	419	0	155	0	4124	56	74	224	304	696	0	0	5674	378	0	6052

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	1032	0	510	0	1970	306	178	0	0	0	0	0	3818	178	0	3818
* 7	-3.6	86.1	1044	0	516	0	1992	309	178	0	0	0	0	0	3861	178	0	3861
8	-3.0	81.8	945	0	504	0	1804	302	178	0	0	0	0	0	3555	178	0	3555
9	-1.5	81.1	889	0	474	0	1696	284	168	0	0	0	0	0	3343	168	0	3343
10	0.5	76.7	813	0	434	0	1552	260	159	0	0	0	0	0	3059	159	0	3059
11	2.6	70.4	734	0	391	0	1400	235	153	0	0	0	0	0	2760	153	0	2760
12	4.1	67.2	677	0	361	0	1292	216	147	0	0	0	0	0	2546	147	0	2546
13	4.6	66.8	658	0	351	0	1256	210	144	0	0	0	0	0	2475	144	0	2475
14	4.5	67.3	662	0	353	0	1262	212	144	0	0	0	0	0	2489	144	0	2489
15	4.0	67.7	681	0	363	0	1298	218	147	0	0	0	0	0	2560	147	0	2560
16	3.3	69.1	707	0	377	0	1350	226	150	0	0	0	0	0	2660	150	0	2660

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 01	5	1	1	Others	27.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	185	0	47	168	228	626	0	0	979	275	0	1254
7	27.4	57.2	0	0	7	0	146	12	58	168	228	626	0	0	959	286	0	1245
8	29.2	53.5	24	0	17	0	194	29	70	168	228	626	0	0	1058	298	0	1356
9	31.1	49.3	130	49	27	0	254	45	78	168	228	626	0	0	1299	306	0	1605
10	32.8	46.1	314	148	36	0	302	61	88	168	228	626	0	0	1655	316	0	1971
11	34.3	42.9	571	276	43	0	339	74	92	168	228	626	0	0	2097	320	0	2417
12	35.2	41.1	868	429	48	0	358	82	94	168	228	626	0	0	2579	322	0	2901
13	35.6	40.2	1142	587	50	0	356	86	94	168	228	626	0	0	3015	322	0	3337
14	35.4	40.7	1416	725	49	0	336	84	95	168	228	626	0	0	3404	323	0	3727
15	34.7	42.3	1711	833	46	0	298	78	95	168	228	626	0	0	3760	323	0	4083
*16	33.7	44.1	1995	892	40	0	251	69	90	168	228	626	0	0	4041	318	0	4359

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	6321	1620	133	0	477	372	216	0	0	0	0	0	8923	216	0	8923
* 7	-3.6	86.1	6390	1636	134	0	482	376	216	0	0	0	0	0	9018	216	0	9018
8	-3.0	81.8	5788	1294	131	0	437	368	216	0	0	0	0	0	8018	216	0	8018
9	-1.5	81.1	5441	1217	123	0	410	345	205	0	0	0	0	0	7536	205	0	7536
10	0.5	76.7	4978	1113	113	0	375	316	194	0	0	0	0	0	6895	194	0	6895
11	2.6	70.4	4492	1004	102	0	339	285	186	0	0	0	0	0	6222	186	0	6222
12	4.1	67.2	4145	927	94	0	312	263	179	0	0	0	0	0	5741	179	0	5741
13	4.6	66.8	4028	901	91	0	304	256	175	0	0	0	0	0	5580	175	0	5580
14	4.5	67.3	4052	906	92	0	306	257	175	0	0	0	0	0	5613	175	0	5613
15	4.0	67.7	4168	932	94	0	314	265	179	0	0	0	0	0	5773	179	0	5773
16	3.3	69.1	4329	968	98	0	327	275	183	0	0	0	0	0	5997	183	0	5997

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 02	5	1	1	Others	58.0	5.0	6	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	280	0	102	336	456	1346	0	0	1962	558	0	2520
7	27.4	57.2	0	0	66	0	530	27	125	336	456	1346	0	0	2305	581	0	2886
8	29.2	53.5	0	0	151	0	778	61	150	336	456	1346	0	0	2672	606	0	3278
9	31.1	49.3	0	106	241	0	1017	98	169	336	456	1346	0	0	3144	625	0	3769
10	32.8	46.1	121	318	321	0	1210	130	189	336	456	1346	0	0	3782	645	0	4427
11	34.3	42.9	332	593	391	0	1359	159	198	336	456	1346	0	0	4516	654	0	5170
12	35.2	41.1	573	921	434	0	1454	176	202	336	456	1346	0	0	5240	658	0	5898
13	35.6	40.2	814	1260	453	0	2383	184	202	336	456	1346	0	0	6776	658	0	7434
14	35.4	40.7	1100	1557	443	0	3508	180	203	336	456	1346	0	0	8470	659	0	9129
15	34.7	42.3	1447	1790	410	0	4148	167	203	336	456	1346	0	0	9644	659	0	10303
*16	33.7	44.1	1838	1917	363	0	4235	147	193	336	456	1346	0	0	10182	649	0	10831

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	4751	3481	1193	0	1908	799	464	0	0	0	0	0	12132	464	0	12132
* 7	-3.6	86.1	4804	3514	1207	0	1928	808	464	0	0	0	0	0	12261	464	0	12261
8	-3.0	81.8	4351	2780	1179	0	1747	790	464	0	0	0	0	0	10847	464	0	10847
9	-1.5	81.1	4090	2613	1108	0	1642	742	440	0	0	0	0	0	10195	440	0	10195
10	0.5	76.7	3742	2391	1014	0	1502	679	416	0	0	0	0	0	9328	416	0	9328
11	2.6	70.4	3376	2157	915	0	1355	613	400	0	0	0	0	0	8416	400	0	8416
12	4.1	67.2	3115	1991	844	0	1251	565	384	0	0	0	0	0	7766	384	0	7766
13	4.6	66.8	3028	1935	821	0	1216	550	376	0	0	0	0	0	7550	376	0	7550
14	4.5	67.3	3046	1946	825	0	1222	553	376	0	0	0	0	0	7592	376	0	7592
15	4.0	67.7	3133	2002	849	0	1257	568	384	0	0	0	0	0	7809	384	0	7809
16	3.3	69.1	3255	2080	882	0	1307	591	392	0	0	0	0	0	8115	392	0	8115

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 03	5	1	1	Others	28.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	140	0	49	168	228	650	0	0	958	277	0	1235
7	27.4	57.2	0	0	33	0	264	13	60	168	228	650	0	0	1128	288	0	1416
8	29.2	53.5	0	0	75	0	388	30	73	168	228	650	0	0	1311	301	0	1612
9	31.1	49.3	0	51	120	0	508	47	81	168	228	650	0	0	1544	309	0	1853
10	32.8	46.1	60	153	160	0	605	63	91	168	228	650	0	0	1859	319	0	2178
11	34.3	42.9	166	286	196	0	679	77	95	168	228	650	0	0	2222	323	0	2545
12	35.2	41.1	286	445	217	0	728	85	98	168	228	650	0	0	2579	326	0	2905
13	35.6	40.2	407	608	226	0	1191	89	98	168	228	650	0	0	3339	326	0	3665
14	35.4	40.7	550	752	222	0	1754	87	98	168	228	650	0	0	4183	326	0	4509
15	34.7	42.3	723	864	205	0	2074	80	98	168	228	650	0	0	4764	326	0	5090
*16	33.7	44.1	919	925	182	0	2117	71	93	168	228	650	0	0	5032	321	0	5353

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2376	1680	597	0	954	386	224	0	0	0	0	0	5993	224	0	5993
* 7	-3.6	86.1	2402	1696	604	0	964	390	224	0	0	0	0	0	6056	224	0	6056
8	-3.0	81.8	2176	1342	590	0	873	381	224	0	0	0	0	0	5362	224	0	5362
9	-1.5	81.1	2045	1262	554	0	821	358	212	0	0	0	0	0	5040	212	0	5040
10	0.5	76.7	1871	1154	507	0	751	328	201	0	0	0	0	0	4611	201	0	4611
11	2.6	70.4	1688	1041	457	0	678	296	193	0	0	0	0	0	4160	193	0	4160
12	4.1	67.2	1558	961	422	0	625	273	185	0	0	0	0	0	3839	185	0	3839
13	4.6	66.8	1514	934	410	0	608	265	182	0	0	0	0	0	3731	182	0	3731
14	4.5	67.3	1523	939	413	0	612	267	182	0	0	0	0	0	3754	182	0	3754
15	4.0	67.7	1566	966	424	0	629	274	185	0	0	0	0	0	3859	185	0	3859
16	3.3	69.1	1627	1004	441	0	653	285	189	0	0	0	0	0	4010	189	0	4010

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 04	5	1	1	Others	28.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	140	0	49	168	228	650	0	0	958	277	0	1235
7	27.4	57.2	0	0	33	0	264	13	60	168	228	650	0	0	1128	288	0	1416
8	29.2	53.5	0	0	75	0	388	30	73	168	228	650	0	0	1311	301	0	1612
9	31.1	49.3	0	51	120	0	508	47	81	168	228	650	0	0	1544	309	0	1853
10	32.8	46.1	60	153	160	0	605	63	91	168	228	650	0	0	1859	319	0	2178
11	34.3	42.9	166	286	196	0	679	77	95	168	228	650	0	0	2222	323	0	2545
12	35.2	41.1	286	445	217	0	728	85	98	168	228	650	0	0	2579	326	0	2905
13	35.6	40.2	407	608	226	0	1191	89	98	168	228	650	0	0	3339	326	0	3665
14	35.4	40.7	550	752	222	0	1754	87	98	168	228	650	0	0	4183	326	0	4509
15	34.7	42.3	723	864	205	0	2074	80	98	168	228	650	0	0	4764	326	0	5090
*16	33.7	44.1	919	925	182	0	2117	71	93	168	228	650	0	0	5032	321	0	5353

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2376	1680	597	0	954	386	224	0	0	0	0	0	5993	224	0	5993
* 7	-3.6	86.1	2402	1696	604	0	964	390	224	0	0	0	0	0	6056	224	0	6056
8	-3.0	81.8	2176	1342	590	0	873	381	224	0	0	0	0	0	5362	224	0	5362
9	-1.5	81.1	2045	1262	554	0	821	358	212	0	0	0	0	0	5040	212	0	5040
10	0.5	76.7	1871	1154	507	0	751	328	201	0	0	0	0	0	4611	201	0	4611
11	2.6	70.4	1688	1041	457	0	678	296	193	0	0	0	0	0	4160	193	0	4160
12	4.1	67.2	1558	961	422	0	625	273	185	0	0	0	0	0	3839	185	0	3839
13	4.6	66.8	1514	934	410	0	608	265	182	0	0	0	0	0	3731	182	0	3731
14	4.5	67.3	1523	939	413	0	612	267	182	0	0	0	0	0	3754	182	0	3754
15	4.0	67.7	1566	966	424	0	629	274	185	0	0	0	0	0	3859	185	0	3859
16	3.3	69.1	1627	1004	441	0	653	285	189	0	0	0	0	0	4010	189	0	4010

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 05	5	1	1	Others	28.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	140	0	49	168	228	650	0	0	958	277	0	1235
7	27.4	57.2	0	0	33	0	264	13	60	168	228	650	0	0	1128	288	0	1416
8	29.2	53.5	0	0	75	0	388	30	73	168	228	650	0	0	1311	301	0	1612
9	31.1	49.3	0	51	120	0	508	47	81	168	228	650	0	0	1544	309	0	1853
10	32.8	46.1	60	153	160	0	605	63	91	168	228	650	0	0	1859	319	0	2178
11	34.3	42.9	166	286	196	0	679	77	95	168	228	650	0	0	2222	323	0	2545
12	35.2	41.1	286	445	217	0	728	85	98	168	228	650	0	0	2579	326	0	2905
13	35.6	40.2	407	608	226	0	1191	89	98	168	228	650	0	0	3339	326	0	3665
14	35.4	40.7	550	752	222	0	1754	87	98	168	228	650	0	0	4183	326	0	4509
15	34.7	42.3	723	864	205	0	2074	80	98	168	228	650	0	0	4764	326	0	5090
*16	33.7	44.1	919	925	182	0	2117	71	93	168	228	650	0	0	5032	321	0	5353

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2376	1680	597	0	954	386	224	0	0	0	0	0	5993	224	0	5993
* 7	-3.6	86.1	2402	1696	604	0	964	390	224	0	0	0	0	0	6056	224	0	6056
8	-3.0	81.8	2176	1342	590	0	873	381	224	0	0	0	0	0	5362	224	0	5362
9	-1.5	81.1	2045	1262	554	0	821	358	212	0	0	0	0	0	5040	212	0	5040
10	0.5	76.7	1871	1154	507	0	751	328	201	0	0	0	0	0	4611	201	0	4611
11	2.6	70.4	1688	1041	457	0	678	296	193	0	0	0	0	0	4160	193	0	4160
12	4.1	67.2	1558	961	422	0	625	273	185	0	0	0	0	0	3839	185	0	3839
13	4.6	66.8	1514	934	410	0	608	265	182	0	0	0	0	0	3731	182	0	3731
14	4.5	67.3	1523	939	413	0	612	267	182	0	0	0	0	0	3754	182	0	3754
15	4.0	67.7	1566	966	424	0	629	274	185	0	0	0	0	0	3859	185	0	3859
16	3.3	69.1	1627	1004	441	0	653	285	189	0	0	0	0	0	4010	189	0	4010

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 06	5	1	1	Others	28.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	140	0	49	168	228	650	0	0	958	277	0	1235
7	27.4	57.2	0	0	33	0	264	13	60	168	228	650	0	0	1128	288	0	1416
8	29.2	53.5	0	0	75	0	388	30	73	168	228	650	0	0	1311	301	0	1612
9	31.1	49.3	0	51	120	0	508	47	81	168	228	650	0	0	1544	309	0	1853
10	32.8	46.1	60	153	160	0	605	63	91	168	228	650	0	0	1859	319	0	2178
11	34.3	42.9	166	286	196	0	679	77	95	168	228	650	0	0	2222	323	0	2545
12	35.2	41.1	286	445	217	0	728	85	98	168	228	650	0	0	2579	326	0	2905
13	35.6	40.2	407	608	226	0	1191	89	98	168	228	650	0	0	3339	326	0	3665
14	35.4	40.7	550	752	222	0	1754	87	98	168	228	650	0	0	4183	326	0	4509
15	34.7	42.3	723	864	205	0	2074	80	98	168	228	650	0	0	4764	326	0	5090
*16	33.7	44.1	919	925	182	0	2117	71	93	168	228	650	0	0	5032	321	0	5353

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2376	1680	597	0	954	386	224	0	0	0	0	0	5993	224	0	5993
* 7	-3.6	86.1	2402	1696	604	0	964	390	224	0	0	0	0	0	6056	224	0	6056
8	-3.0	81.8	2176	1342	590	0	873	381	224	0	0	0	0	0	5362	224	0	5362
9	-1.5	81.1	2045	1262	554	0	821	358	212	0	0	0	0	0	5040	212	0	5040
10	0.5	76.7	1871	1154	507	0	751	328	201	0	0	0	0	0	4611	201	0	4611
11	2.6	70.4	1688	1041	457	0	678	296	193	0	0	0	0	0	4160	193	0	4160
12	4.1	67.2	1558	961	422	0	625	273	185	0	0	0	0	0	3839	185	0	3839
13	4.6	66.8	1514	934	410	0	608	265	182	0	0	0	0	0	3731	182	0	3731
14	4.5	67.3	1523	939	413	0	612	267	182	0	0	0	0	0	3754	182	0	3754
15	4.0	67.7	1566	966	424	0	629	274	185	0	0	0	0	0	3859	185	0	3859
16	3.3	69.1	1627	1004	441	0	653	285	189	0	0	0	0	0	4010	189	0	4010

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 07	5	1	1	Others	28.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	140	0	49	168	228	650	0	0	958	277	0	1235
7	27.4	57.2	0	0	33	0	264	13	60	168	228	650	0	0	1128	288	0	1416
8	29.2	53.5	0	0	75	0	388	30	73	168	228	650	0	0	1311	301	0	1612
9	31.1	49.3	0	51	120	0	508	47	81	168	228	650	0	0	1544	309	0	1853
10	32.8	46.1	60	153	160	0	605	63	91	168	228	650	0	0	1859	319	0	2178
11	34.3	42.9	166	286	196	0	679	77	95	168	228	650	0	0	2222	323	0	2545
12	35.2	41.1	286	445	217	0	728	85	98	168	228	650	0	0	2579	326	0	2905
13	35.6	40.2	407	608	226	0	1191	89	98	168	228	650	0	0	3339	326	0	3665
14	35.4	40.7	550	752	222	0	1754	87	98	168	228	650	0	0	4183	326	0	4509
15	34.7	42.3	723	864	205	0	2074	80	98	168	228	650	0	0	4764	326	0	5090
*16	33.7	44.1	919	925	182	0	2117	71	93	168	228	650	0	0	5032	321	0	5353

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2376	1680	597	0	954	386	224	0	0	0	0	0	5993	224	0	5993
* 7	-3.6	86.1	2402	1696	604	0	964	390	224	0	0	0	0	0	6056	224	0	6056
8	-3.0	81.8	2176	1342	590	0	873	381	224	0	0	0	0	0	5362	224	0	5362
9	-1.5	81.1	2045	1262	554	0	821	358	212	0	0	0	0	0	5040	212	0	5040
10	0.5	76.7	1871	1154	507	0	751	328	201	0	0	0	0	0	4611	201	0	4611
11	2.6	70.4	1688	1041	457	0	678	296	193	0	0	0	0	0	4160	193	0	4160
12	4.1	67.2	1558	961	422	0	625	273	185	0	0	0	0	0	3839	185	0	3839
13	4.6	66.8	1514	934	410	0	608	265	182	0	0	0	0	0	3731	182	0	3731
14	4.5	67.3	1523	939	413	0	612	267	182	0	0	0	0	0	3754	182	0	3754
15	4.0	67.7	1566	966	424	0	629	274	185	0	0	0	0	0	3859	185	0	3859
16	3.3	69.1	1627	1004	441	0	653	285	189	0	0	0	0	0	4010	189	0	4010

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 08	5	1	1	Others	28.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	140	0	49	168	228	650	0	0	958	277	0	1235
7	27.4	57.2	0	0	33	0	264	13	60	168	228	650	0	0	1128	288	0	1416
8	29.2	53.5	0	0	75	0	388	30	73	168	228	650	0	0	1311	301	0	1612
9	31.1	49.3	0	51	120	0	508	47	81	168	228	650	0	0	1544	309	0	1853
10	32.8	46.1	60	153	160	0	605	63	91	168	228	650	0	0	1859	319	0	2178
11	34.3	42.9	166	286	196	0	679	77	95	168	228	650	0	0	2222	323	0	2545
12	35.2	41.1	286	445	217	0	728	85	98	168	228	650	0	0	2579	326	0	2905
13	35.6	40.2	407	608	226	0	1191	89	98	168	228	650	0	0	3339	326	0	3665
14	35.4	40.7	550	752	222	0	1754	87	98	168	228	650	0	0	4183	326	0	4509
15	34.7	42.3	723	864	205	0	2074	80	98	168	228	650	0	0	4764	326	0	5090
*16	33.7	44.1	919	925	182	0	2117	71	93	168	228	650	0	0	5032	321	0	5353

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	2376	1680	597	0	954	386	224	0	0	0	0	0	5993	224	0	5993
* 7	-3.6	86.1	2402	1696	604	0	964	390	224	0	0	0	0	0	6056	224	0	6056
8	-3.0	81.8	2176	1342	590	0	873	381	224	0	0	0	0	0	5362	224	0	5362
9	-1.5	81.1	2045	1262	554	0	821	358	212	0	0	0	0	0	5040	212	0	5040
10	0.5	76.7	1871	1154	507	0	751	328	201	0	0	0	0	0	4611	201	0	4611
11	2.6	70.4	1688	1041	457	0	678	296	193	0	0	0	0	0	4160	193	0	4160
12	4.1	67.2	1558	961	422	0	625	273	185	0	0	0	0	0	3839	185	0	3839
13	4.6	66.8	1514	934	410	0	608	265	182	0	0	0	0	0	3731	182	0	3731
14	4.5	67.3	1523	939	413	0	612	267	182	0	0	0	0	0	3754	182	0	3754
15	4.0	67.7	1566	966	424	0	629	274	185	0	0	0	0	0	3859	185	0	3859
16	3.3	69.1	1627	1004	441	0	653	285	189	0	0	0	0	0	4010	189	0	4010

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 15	5	1	1	Others	19.0	5.0	2	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	127	0	33	112	152	441	0	0	680	185	0	865
7	27.4	57.2	46	0	12	0	99	9	41	112	152	441	0	0	719	193	0	912
8	29.2	53.5	223	0	27	0	133	20	49	112	152	441	0	0	956	201	0	1157
9	31.1	49.3	503	35	43	0	174	32	55	112	152	441	0	0	1340	207	0	1547
10	32.8	46.1	788	104	57	0	206	43	62	112	152	441	0	0	1751	214	0	1965
11	34.3	42.9	1069	194	70	0	233	52	65	112	152	441	0	0	2171	217	0	2388
12	35.2	41.1	1332	302	77	0	244	58	66	112	152	441	0	0	2566	218	0	2784
13	35.6	40.2	1487	413	80	0	242	60	66	112	152	441	0	0	2835	218	0	3053
14	35.4	40.7	1561	510	79	0	230	59	67	112	152	441	0	0	2992	219	0	3211
*15	34.7	42.3	1607	586	73	0	204	55	67	112	152	441	0	0	3078	219	0	3297
16	33.7	44.1	1607	628	65	0	172	48	63	112	152	441	0	0	3073	215	0	3288

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	5330	1140	212	0	327	262	152	0	0	0	0	0	7271	152	0	7271
* 7	-3.6	86.1	5388	1151	215	0	330	265	152	0	0	0	0	0	7349	152	0	7349
8	-3.0	81.8	4881	911	210	0	299	259	152	0	0	0	0	0	6560	152	0	6560
9	-1.5	81.1	4588	856	197	0	281	243	144	0	0	0	0	0	6165	144	0	6165
10	0.5	76.7	4198	783	180	0	257	222	136	0	0	0	0	0	5640	136	0	5640
11	2.6	70.4	3788	707	163	0	232	201	131	0	0	0	0	0	5091	131	0	5091
12	4.1	67.2	3494	652	150	0	214	185	126	0	0	0	0	0	4695	126	0	4695
13	4.6	66.8	3397	634	146	0	208	180	123	0	0	0	0	0	4565	123	0	4565
14	4.5	67.3	3417	638	147	0	210	181	123	0	0	0	0	0	4593	123	0	4593
15	4.0	67.7	3515	656	151	0	215	186	126	0	0	0	0	0	4723	126	0	4723
16	3.3	69.1	3651	681	157	0	224	193	128	0	0	0	0	0	4906	128	0	4906

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 16	5	1	1	Others	27.0	5.0	4	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	1580	0	47	224	304	626	0	0	2430	351	0	2781
7	27.4	57.2	83	0	44	0	1869	12	58	224	304	626	0	0	2858	362	0	3220
8	29.2	53.5	364	0	101	0	1981	29	70	224	304	626	0	0	3325	374	0	3699
9	31.1	49.3	686	49	160	0	1878	45	78	224	304	626	0	0	3668	382	0	4050
10	32.8	46.1	997	148	214	0	1497	61	88	224	304	626	0	0	3767	392	0	4159
11	34.3	42.9	1257	276	261	0	922	74	92	224	304	626	0	0	3640	396	0	4036
12	35.2	41.1	1444	429	289	0	715	82	94	224	304	626	0	0	3809	398	0	4207
13	35.6	40.2	1475	587	302	0	710	86	94	224	304	626	0	0	4010	398	0	4408
*14	35.4	40.7	1403	725	296	0	672	84	95	224	304	626	0	0	4030	399	0	4429
15	34.7	42.3	1299	833	274	0	596	78	95	224	304	626	0	0	3930	399	0	4329
16	33.7	44.1	1174	892	242	0	500	69	90	224	304	626	0	0	3727	394	0	4121

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	3127	1620	795	0	910	355	206	0	0	0	0	0	6807	206	0	6807
* 7	-3.6	86.1	3162	1636	805	0	921	359	206	0	0	0	0	0	6883	206	0	6883
8	-3.0	81.8	2864	1294	786	0	834	351	206	0	0	0	0	0	6129	206	0	6129
9	-1.5	81.1	2692	1217	739	0	783	330	196	0	0	0	0	0	5761	196	0	5761
10	0.5	76.7	2463	1113	676	0	717	302	185	0	0	0	0	0	5271	185	0	5271
11	2.6	70.4	2222	1004	610	0	647	272	178	0	0	0	0	0	4755	178	0	4755
12	4.1	67.2	2051	927	563	0	597	251	171	0	0	0	0	0	4389	171	0	4389
13	4.6	66.8	1993	901	547	0	580	244	167	0	0	0	0	0	4265	167	0	4265
14	4.5	67.3	2005	906	550	0	583	246	167	0	0	0	0	0	4290	167	0	4290
15	4.0	67.7	2062	932	566	0	600	253	171	0	0	0	0	0	4413	171	0	4413
16	3.3	69.1	2142	968	588	0	623	262	174	0	0	0	0	0	4583	174	0	4583

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

Table of room heat load

Room name	Floor	System	Rooms	Usage	Fl area(m2)	Height(m)	No of person	F/A volume(m3/h)
Potkrovlje 17	5	1	1	Others	27.0	5.0	3	Summer 0.0/Winter 0.0

[Cooling load] Condition of indoor design temprature & humidity: 26.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	25.9	60.2	0	0	0	0	1580	0	47	168	228	626	0	0	2374	275	0	2649
7	27.4	57.2	83	0	44	0	1869	12	58	168	228	626	0	0	2802	286	0	3088
8	29.2	53.5	364	0	101	0	1981	29	70	168	228	626	0	0	3269	298	0	3567
9	31.1	49.3	686	49	160	0	1878	45	78	168	228	626	0	0	3612	306	0	3918
10	32.8	46.1	997	148	214	0	1497	61	88	168	228	626	0	0	3711	316	0	4027
11	34.3	42.9	1257	276	261	0	922	74	92	168	228	626	0	0	3584	320	0	3904
12	35.2	41.1	1444	429	289	0	715	82	94	168	228	626	0	0	3753	322	0	4075
13	35.6	40.2	1475	587	302	0	710	86	94	168	228	626	0	0	3954	322	0	4276
*14	35.4	40.7	1403	725	296	0	672	84	95	168	228	626	0	0	3974	323	0	4297
15	34.7	42.3	1299	833	274	0	596	78	95	168	228	626	0	0	3874	323	0	4197
16	33.7	44.1	1174	892	242	0	500	69	90	168	228	626	0	0	3671	318	0	3989

[Heating load] Condition of indoor design temprature & humidity: 22.0(CDB) 50.0(%RH) [W]

Time	F/A cond.		Outer Wall	Roof & Ceiling	Inner Wall	Floor	Window	Infiltration		Human body		Light -ing	Equipments		Indoor heat		Fresh air	Total Heat Load
	CDB	%RH						SH	LH	SH	LH		SH	LH	SH	LH		
6	-3.3	83.9	3127	1620	795	0	910	355	206	0	0	0	0	0	6807	206	0	6807
* 7	-3.6	86.1	3162	1636	805	0	921	359	206	0	0	0	0	0	6883	206	0	6883
8	-3.0	81.8	2864	1294	786	0	834	351	206	0	0	0	0	0	6129	206	0	6129
9	-1.5	81.1	2692	1217	739	0	783	330	196	0	0	0	0	0	5761	196	0	5761
10	0.5	76.7	2463	1113	676	0	717	302	185	0	0	0	0	0	5271	185	0	5271
11	2.6	70.4	2222	1004	610	0	647	272	178	0	0	0	0	0	4755	178	0	4755
12	4.1	67.2	2051	927	563	0	597	251	171	0	0	0	0	0	4389	171	0	4389
13	4.6	66.8	1993	901	547	0	580	244	167	0	0	0	0	0	4265	167	0	4265
14	4.5	67.3	2005	906	550	0	583	246	167	0	0	0	0	0	4290	167	0	4290
15	4.0	67.7	2062	932	566	0	600	253	171	0	0	0	0	0	4413	171	0	4413
16	3.3	69.1	2142	968	588	0	623	262	174	0	0	0	0	0	4583	174	0	4583

Total heat load in heating is not contained latent heat.
F/A : Fresh air
SH : Sensible heat
LH : Latent heat

SAMSUNG

Project Report

Name : VRHOVNI SUD PODGORICA

Telephone :

E-mail :

Address :

Name : AIM studio d.o.o.

Telephone :

E-mail :

Address :

VRHOVNI SUD PODGORICA

2021



1. Total Load Profile

1.1 VRHOVNI SUD PODGORICA

Dept	FI	Room	Area		Load per unit area		Load			Sum of capacity			Model	Qty	Nominal Capacity			Outdoor	Model	Nominal Capacity		Combi. Ratio	
			CAD	SALES	Cooling	Heating	Cooling		Heating	Cooling		Heating			Cooling		Heating						
							TC	SHC		TC	SHC				TC								
																kW				kW	kW	kW	kW
			m2	m2	kW/m2	kW/m2	TC kW	SHC kW	TC kW	TC kW	SHC kW	TC kW			TC kW	SHC kW	TC kW	-	-	TC kW	Heating kW	Cooling %	Heating %
VRHO VNI SUD POD GORI CA	3F	DRUGI SPRAT 201	54.55 65	54.56	0.01	0.1	0.55	0.00	5.46	9	6.2	10	AM045TNADKH/EU	2	4.50	3.10	5.00	Spoljasnja jedinica 1	AM440KXVAGH /ET	123.2 0	138.6 0	98	98
		DRUGI SPRAT 202	25.72 3	25.72	0.01	0.1	0.26	0.00	2.57	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		DRUGI SPRAT 203	53.35 66	53.36	0.01	0.1	0.53	0.00	5.34	9	6.2	10	AM045TNADKH/EU	2	4.50	3.10	5.00						
		DRUGI SPRAT 204	25.11 57	25.12	0.01	0.1	0.25	0.00	2.51	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		DRUGI SPRAT 205	25.79 27	25.79	0.01	0.1	0.26	0.00	2.58	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		DRUGI SPRAT 206	26.21 13	26.21	0.01	0.1	0.26	0.00	2.62	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		DRUGI SPRAT 207	26.32 94	26.33	0.01	0.1	0.26	0.00	2.63	4.5	3.1	5	AM045TNADKH/EU	1	4.50	3.10	5.00						
		DRUGI SPRAT 208	23.49 17	23.49	0.01	0.1	0.23	0.00	2.35	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		DRUGI SPRAT 209	17.95 91	17.96	0.01	0.1	0.18	0.00	1.80	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
		DRUGI SPRAT 210	17.77 13	17.77	0.01	0.1	0.18	0.00	1.78	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		DRUGI SPRAT 211	10.71 59	10.72	0.01	0.1	0.11	0.00	1.07	1.5	1	1.7	AM015TNADKH/EU	1	1.50	1.00	1.70						
	2F	PRVI SPRAT 101	26.25 05	26.25	0.01	0.1	0.26	0.00	2.63	4.5	3.1	5	AM045TNADKH/EU	1	4.50	3.10	5.00						
		PRVI SPRAT 102	26.34 38	26.34	0.01	0.1	0.26	0.00	2.63	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRVI SPRAT 103	25.68 06	25.68	0.01	0.1	0.26	0.00	2.57	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRVI SPRAT 104	26.33 97	26.34	0.01	0.1	0.26	0.00	2.63	1.5	1	1.7	AM015TNADKH/EU	1	1.50	1.00	1.70						
		PRVI SPRAT 105	25.67 65	25.68	0.01	0.1	0.26	0.00	2.57	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRVI SPRAT 106	26.45 58	26.46	0.01	0.1	0.26	0.00	2.65	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRVI SPRAT 107	25.67 25	25.67	0.01	0.1	0.26	0.00	2.57	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRVI SPRAT 109	26.33 15	26.33	0.01	0.1	0.26	0.00	2.63	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
PRVI SPRAT 109	26.93 03	26.93	0.01	0.1	0.27	0.00	2.69	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00								



		PRVI SPRAT 110	23.80 34	23.8	0.01	0.1	0.24	0.00	2.38	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRVI SPRAT 111	17.65 09	17.65	0.01	0.1	0.18	0.00	1.77	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
		PRVI SPRAT 112	17.92 25	17.92	0.01	0.1	0.18	0.00	1.79	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
		PRVI SPRAT 113	10.8	10.8	0.01	0.1	0.11	0.00	1.08	1.5	1	1.7	AM015TNADKH/EU	1	1.50	1.00	1.70						
	1F	PRIZEML JE 01	27.60 55	27.61	0.01	0.1	0.28	0.00	2.76	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		PRIZEML JE 02	26.64 08	26.64	0.01	0.1	0.27	0.00	2.66	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 03	26.34 47	26.34	0.01	0.1	0.26	0.00	2.63	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 04	25.78 04	25.78	0.01	0.1	0.26	0.00	2.58	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 05	25.67 51	25.68	0.01	0.1	0.26	0.00	2.57	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 06	26.28 66	26.29	0.01	0.1	0.26	0.00	2.63	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 07	26.64 66	26.65	0.01	0.1	0.27	0.00	2.66	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 08	27.30 61	27.31	0.01	0.1	0.27	0.00	2.73	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		PRIZEML JE 09	12.48 12	12.48	0.01	0.1	0.12	0.00	1.25	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRIZEML JE 010	17.76 85	17.77	0.01	0.1	0.18	0.00	1.78	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		PRIZEML JE 011	16.85 14	16.85	0.01	0.1	0.17	0.00	1.69	2.2	1.5	2.5	AM022TNV/DKH/UK	1	2.20	1.50	2.50						
		PRIZEML JE 012	9.877 04	9.88	0.01	0.1	0.10	0.00	0.99	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
	Ro of	POTKRO VLJE 01	27.83 06	27.83	0.01	0.1	0.28	0.00	2.78	4.5	3.1	5	AM045TNADKH/EU	1	4.50	3.10	5.00						
		POTKRO VLJE 02	57.97 24	57.97	0.01	0.1	0.58	0.00	5.80	9	6.2	10	AM045TNADKH/EU	2	4.50	3.10	5.00						
		POTKRO VLJE 03	27.21 06	27.21	0.01	0.1	0.27	0.00	2.72	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 04	26.50 2	26.5	0.01	0.1	0.27	0.00	2.65	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 05	25.92 29	25.92	0.01	0.1	0.26	0.00	2.59	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 06	25.33 85	25.34	0.01	0.1	0.25	0.00	2.53	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 07	0.323 347	32.12	0.01	0.1	0.32	0.00	3.21	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 08	27.54 72	27.55	0.01	0.1	0.28	0.00	2.75	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 09	19.35 33	19.35	0.01	0.1	0.19	0.00	1.94	5.6	3.8	6.3	AM056TNADKH/EU	1	5.60	3.80	6.30						
		POTKRO VLJE 010	27.17 64	27.18	0.01	0.1	0.27	0.00	2.72	8.2	5.6	8.5	AM082TNADKH/EU	1	8.20	5.60	8.50						
		POTKRO VLJE 011	27.39 01	27.39	0.01	0.1	0.27	0.00	2.74	5.6	3.8	6.3	AM056TNV/DKH/EU	1	5.60	3.80	6.30						
	4F	TRECI SPRAT 301	28.54 77	28.55	0.01	0.1	0.29	0.00	2.85	4.5	3.1	5	AM045TNADKH/EU	1	4.50	3.10	5.00	SPOLJAS NJA JEDINICA 2	AM400KXVAGH /ET	112.0 0	126.0 0	97	97
		TRECI SPRAT 301	19.22 13	19.22	0.01	0.1	0.19	0.00	1.92	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
		TRECI SPRAT 303	21.61 71	21.62	0.01	0.1	0.22	0.00	2.16	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 304	20.08 84	20.09	0.01	0.1	0.20	0.00	2.01	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 305	22.16 95	22.17	0.01	0.1	0.22	0.00	2.22	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						



		TRECI SPRAT 306	27.80 05	27.8	0.01	0.1	0.28	0.00	2.78	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 307	19.46 02	19.46	0.01	0.1	0.19	0.00	1.95	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
		TRECI SPRAT 308	21.58 02	21.58	0.01	0.1	0.22	0.00	2.16	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 309	19.95 38	19.95	0.01	0.1	0.20	0.00	2.00	2.2	1.5	2.5	AM022TNADKH/EU	1	2.20	1.50	2.50						
		TRECI SPRAT 311	29.38 83	29.39	0.01	0.1	0.29	0.00	2.94	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		TRECI SPRAT 310	21.89 47	21.89	0.01	0.1	0.22	0.00	2.19	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 312	19.33 29	19.33	0.01	0.1	0.19	0.00	1.93	3.6	2.4	4	AM036TNADKH/EU	1	3.60	2.40	4.00						
		TRECI SPRAT 313	21.80 29	21.8	0.01	0.1	0.22	0.00	2.18	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 314	19.37 38	19.37	0.01	0.1	0.19	0.00	1.94	2.8	1.9	3.2	AM028TNADKH/EU	1	2.80	1.90	3.20						
		TRECI SPRAT 315	12.68 04	12.68	0.01	0.1	0.13	0.00	1.27	1.5	1	1.7	AM015TNADKH/EU	1	1.50	1.00	1.70						



2. Piping & Wiring

2.1 Spoljasnja jedinica 1

2.1.1 Detail Load Profile

1) Design condition: Montenegro, PODGORICA, Cooling 35, Heating -15

2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P.Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition		Simultaneous Operation Capacity			Combination Ratio		
Dept	FI	Room	Name	Model name						Cooling WB.Temp	Heating DB.Temp	Cooling		Heating	Cooling		Heating	Cooling	Heating
-	-	-	-	-	ø, mm	ø, mm	ø, mm	Mod e	CMM	°C	°C	kW	kW	kW	kW	kW	%	%	
VRHOV NI SUD PODGO RICA	1F		Spoljasnja jedinica 1	AM440KXVAGH/ET	19.05	41.28									0.00		0.00	97.8	97.8
	3F	DRUGI SPRAT 201	DRUGI SPRAT 201_1	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 201	DRUGI SPRAT 201_2	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 202	DRUGI SPRAT 202	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 203	DRUGI SPRAT 203_1	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 203	DRUGI SPRAT 203_2	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 204	DRUGI SPRAT 204	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 205	DRUGI SPRAT 205	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 206	DRUGI SPRAT 206	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 207	DRUGI SPRAT 207	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 208	DRUGI SPRAT 208	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 209	DRUGI SPRAT 209	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 210	DRUGI SPRAT 210	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		DRUGI SPRAT 211	DRUGI SPRAT 211	AM015TNADKH/EU	6.35	12.70		H	4.90	19	20				0.00	0.00	0.00		
	2F	PRVI SPRAT 101	PRVI SPRAT 101	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 102	PRVI SPRAT 102	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 103	PRVI SPRAT 103	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 104	PRVI SPRAT 104_1	AM015TNADKH/EU	6.35	12.70		H	4.90	19	20				0.00	0.00	0.00		
		PRVI SPRAT 105	PRVI SPRAT 105	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 106	PRVI SPRAT 106	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 107	PRVI SPRAT 107	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 109	PRVI SPRAT 109	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRVI SPRAT 109	PRVI SPRAT 109	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRVI SPRAT 110	PRVI SPRAT 110	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRVI SPRAT 111	PRVI SPRAT 111	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		



		PRVI SPRAT 112	PRVI SPRAT 112	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		
		PRVI SPRAT 113	PRVI SPRAT 113	AM015TNADKH/EU	6.35	12.70		H	4.90	19	20				0.00	0.00	0.00		
	1F	PRIZEMLJE 01	PRIZEMLJE 01	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		PRIZEMLJE 02	PRIZEMLJE 02	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 03	PRIZEMLJE 03	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 04	PRIZEMLJE 04	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 05	PRIZEMLJE 05	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 06	PRIZEMLJE 06	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 07	PRIZEMLJE 07	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 08	PRIZEMLJE 08	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		PRIZEMLJE 09	PRIZEMLJE 09	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRIZEMLJE 010	PRIZEMLJE 010	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		PRIZEMLJE 011	PRIZEMLJE 011	AM022TNVDKH/UK	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		
		PRIZEMLJE 012	PRIZEMLJE 012	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		



2.1.2 Control

1) This data is for reference only. Verify local, state, and national electric codes. Samsung does not guarantee this data.

2) Configuration

Building			Unit		Communication wires	Power wires	Breaker Fuse	Main Address		RMC Address		Accessories	
Dept	Fl	Room	Name	Model name								Optional accessories	Basic accessories
-	-	-	-	-	mm2	mm2	A						
VRHOVNI SUD PODGORI CA	1F		Spoljasnja jedinica 1	AM440KXVAGH/ET	0.75~	~	100						
	3F	DRUGI SPRAT 201	DRUGI SPRAT 201_1	AM045TNADKH/EU	0.75~	~		2	5	0	0		
		DRUGI SPRAT 201	DRUGI SPRAT 201_2	AM045TNADKH/EU	0.75~	~		2	2	0	0		
		DRUGI SPRAT 202	DRUGI SPRAT 202	AM028TNADKH/EU	0.75~	~		1	9	0	0		
		DRUGI SPRAT 203	DRUGI SPRAT 203_1	AM045TNADKH/EU	0.75~	~		1	6	0	0		
		DRUGI SPRAT 203	DRUGI SPRAT 203_2	AM045TNADKH/EU	0.75~	~		1	3	0	0		
		DRUGI SPRAT 204	DRUGI SPRAT 204	AM028TNADKH/EU	0.75~	~		1	1	0	0		
		DRUGI SPRAT 205	DRUGI SPRAT 205	AM028TNADKH/EU	0.75~	~		0	8	0	0		
		DRUGI SPRAT 206	DRUGI SPRAT 206	AM028TNADKH/EU	0.75~	~		0	5	0	0		
		DRUGI SPRAT 207	DRUGI SPRAT 207	AM045TNADKH/EU	0.75~	~		0	2	0	0		
		DRUGI SPRAT 208	DRUGI SPRAT 208	AM036TNADKH/EU	0.75~	~		2	8	0	0		
		DRUGI SPRAT 209	DRUGI SPRAT 209	AM022TNADKH/EU	0.75~	~		3	0	0	0		
		DRUGI SPRAT 210	DRUGI SPRAT 210	AM028TNADKH/EU	0.75~	~		3	3	0	0		
		DRUGI SPRAT 211	DRUGI SPRAT 211	AM015TNADKH/EU	0.75~	~		3	6	0	0		
	2F	PRVI SPRAT 101	PRVI SPRAT 101	AM045TNADKH/EU	0.75~	~		2	4	0	0		
		PRVI SPRAT 102	PRVI SPRAT 102	AM028TNADKH/EU	0.75~	~		2	1	0	0		
		PRVI SPRAT 103	PRVI SPRAT 103	AM028TNADKH/EU	0.75~	~		1	8	0	0		
		PRVI SPRAT 104	PRVI SPRAT 104_1	AM015TNADKH/EU	0.75~	~		1	5	0	0		
		PRVI SPRAT 105	PRVI SPRAT 105	AM028TNADKH/EU	0.75~	~		1	2	0	0		
		PRVI SPRAT 106	PRVI SPRAT 106	AM028TNADKH/EU	0.75~	~		1	0	0	0		
		PRVI SPRAT 107	PRVI SPRAT 107	AM028TNADKH/EU	0.75~	~		0	7	0	0		
		PRVI SPRAT 109	PRVI SPRAT 109	AM028TNADKH/EU	0.75~	~		0	4	0	0		
		PRVI SPRAT 109	PRVI SPRAT 109	AM036TNADKH/EU	0.75~	~		0	1	0	0		
		PRVI SPRAT 110	PRVI SPRAT 110	AM036TNADKH/EU	0.75~	~		2	7	0	0		
		PRVI SPRAT 111	PRVI SPRAT 111	AM022TNADKH/EU	0.75~	~		2	9	0	0		
		PRVI SPRAT 112	PRVI SPRAT 112	AM022TNADKH/EU	0.75~	~		3	2	0	0		
		PRVI SPRAT 113	PRVI SPRAT 113	AM015TNADKH/EU	0.75~	~		3	5	0	0		
	1F	PRIZEMLJE 01	PRIZEMLJE 01	AM056TNADKH/EU	0.75~	~		2	3	0	0		
		PRIZEMLJE 02	PRIZEMLJE 02	AM036TNADKH/EU	0.75~	~		2	0	0	0		
		PRIZEMLJE 03	PRIZEMLJE 03	AM036TNADKH/EU	0.75~	~		1	7	0	0		
		PRIZEMLJE 04	PRIZEMLJE 04	AM036TNADKH/EU	0.75~	~		1	4	0	0		



		PRIZEMLJE 05	PRIZEMLJE 05	AM036TNADKH/EU	0.75~	~		0	9	0	0		
		PRIZEMLJE 06	PRIZEMLJE 06	AM036TNADKH/EU	0.75~	~		0	6	0	0		
		PRIZEMLJE 07	PRIZEMLJE 07	AM036TNADKH/EU	0.75~	~		0	3	0	0		
		PRIZEMLJE 08	PRIZEMLJE 08	AM036TNADKH/EU	0.75~	~		0	0	0	0		
		PRIZEMLJE 09	PRIZEMLJE 09	AM028TNADKH/EU	0.75~	~		2	6	0	0		
		PRIZEMLJE 010	PRIZEMLJE 010	AM028TNADKH/EU	0.75~	~		3	1	0	0		
		PRIZEMLJE 011	PRIZEMLJE 011	AM022TNVDKH/UK	0.75~	~		3	4	0	0		
		PRIZEMLJE 012	PRIZEMLJE 012	AM022TNADKH/EU	0.75~	~		3	7	0	0		



2.1.3 Equipment list

1) Equipment list

Categories	Model name		Qty	Categories	Model name		Qty
DVM S(NEW)	AM440KXVAGH/ET	AM220KXVAGH/ET	2	Distributor Kit	MEV-E24SA	30	
Wind-Free		AM056TNADKH/EU	1	Y-Joint	MEV-E32SA	7	
		AM036TNADKH/EU	10		MXJ-TA3419M	1	
		AM028TNADKH/EU	13		MXJ-YA4119M	7	
		AM022TNVDKH/UK	1		MXJ-YA3419M	4	
		AM022TNADKH/EU	4		MXJ-YA2815M	6	
		AM045TNADKH/EU	6		MXJ-YA2512M	6	
		AM015TNADKH/EU	3		MXJ-YA1509M	14	

2) Piping length

Length as pipe diameter		6.35	9.52	12.70	15.88	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.63	50.80	53.98
1. Liquid piping	m	100.36		172.98	11.09	12.59	37.46										
2. Gas piping	m			100.36		166.71	4.09		13.28		8.68		41.37				
3. High pressure gas piping	m																
Restriction of pipe length		Restriction (Based on installation manual)						Actual piping length				Equivalent piping length					
1. Total piping length	m	1000.00						351.43									
2. Maximum piping length	m	200.00						90.72				99.92					
3. Main pipe length	m							10.73									
4. Piping length between the first branch and the farthest indoor unit	m	45.00/90.00						77.00									
5. Level difference between outdoor and indoor unit(Max) (OD above ID unit / OD below ID unit)	m	40.00/110.00															
6. Level difference between indoor units	m	50.00						6.40									

3) Basic and additional charging ref. amount

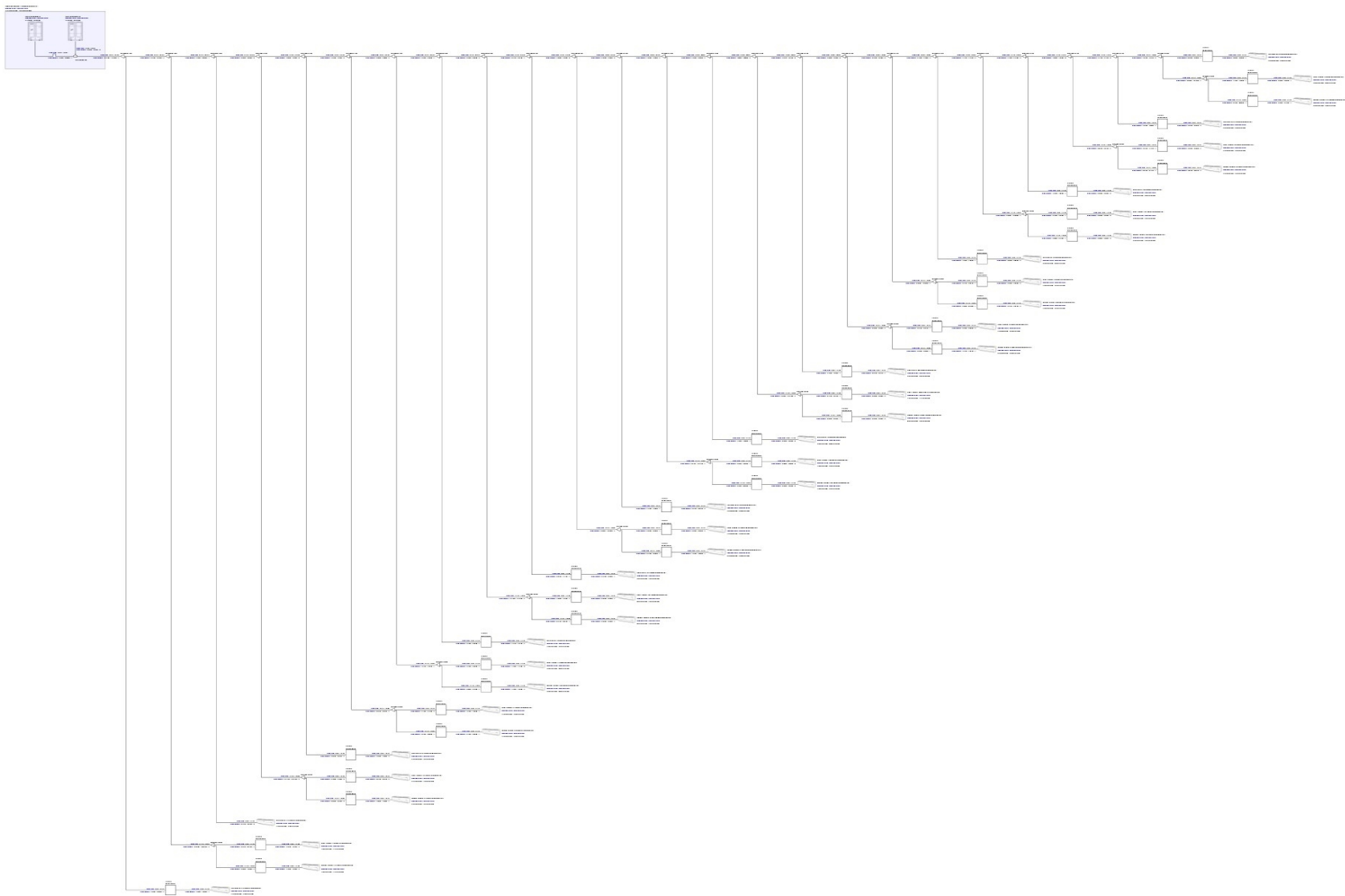
Basic (Factory) charge ref. amount : 16.800 kg

Additional Field charging ref. amount : kg

Total number of bendings : 106



2.1.4 Piping



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.1.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.2 SPOLJASNJA JEDINICA 2

2.2.1 Detail Load Profile

1) Design condition: Montenegro, PODGORICA, Cooling 35, Heating -15

2) Load profile

Building			Unit		Liquid Pipe	Gas Pipe	H.P.Gas Pipe	Airflow		Design condition : Indoor		Max. Capacity @design condition			Simultaneous Operation Capacity			Combination Ratio	
Dept	FI	Room	Name	Model name						Cooling WB.Temp	Heating DB.Temp	Cooling		Heating	Cooling	Heating	Cooling	Heating	Cooling
-	-	-	-	-	ø, mm	ø, mm	ø, mm	Mod e	CMM	°C	°C	kW	kW	kW	kW	kW	kW	%	%
VRHOV NI SUD PODGO RICA	1F		SPOLJASNJ A JEDINICA 2	AM400KXVAGH/ET	19.05	41.28									0.00		0.00	97.1	96.6
	4F	TRECI SPRAT 301	TRECI SPRAT 301	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 301	TRECI SPRAT 301	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		
		TRECI SPRAT 303	TRECI SPRAT 303	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 304	TRECI SPRAT 304	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 305	TRECI SPRAT 305	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 306	TRECI SPRAT 306	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 307	TRECI SPRAT 307	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		
		TRECI SPRAT 308	TRECI SPRAT 308	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 309	TRECI SPRAT 309	AM022TNADKH/EU	6.35	12.70		H	5.70	19	20				0.00	0.00	0.00		
		TRECI SPRAT 311	TRECI SPRAT 311	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		TRECI SPRAT 310	TRECI SPRAT 310	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 312	TRECI SPRAT 312	AM036TNADKH/EU	6.35	12.70		H	10.30	19	20				0.00	0.00	0.00		
		TRECI SPRAT 313	TRECI SPRAT 313	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 314	TRECI SPRAT 314	AM028TNADKH/EU	6.35	12.70		H	8.50	19	20				0.00	0.00	0.00		
		TRECI SPRAT 315	TRECI SPRAT 315	AM015TNADKH/EU	6.35	12.70		H	4.90	19	20				0.00	0.00	0.00		
	Roof	POTKROVLJ E 01	POTKROVLJ E 01	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		POTKROVLJ E 02	POTKROVLJ E 02_1	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		POTKROVLJ E 02	POTKROVLJ E 02_2	AM045TNADKH/EU	6.35	12.70		H	12.50	19	20				0.00	0.00	0.00		
		POTKROVLJ E 03	POTKROVLJ E 03	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 04	POTKROVLJ E 04	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 05	POTKROVLJ E 05	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 06	POTKROVLJ E 06	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 07	POTKROVLJ E 07	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 08	POTKROVLJ E 08	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 09	POTKROVLJ E 09	AM056TNADKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		
		POTKROVLJ E 010	POTKROVLJ E 010	AM082TNADKH/EU	9.52	15.88		H	17.50	19	20				0.00	0.00	0.00		
		POTKROVLJ E 011	POTKROVLJ E 011	AM056TNVDKH/EU	6.35	12.70		H	15.70	19	20				0.00	0.00	0.00		



2.2.2 Control

1) This data is for reference only. Verify local, state, and national electric codes. Samsung does not guarantee this data.

2) Configuration

Building			Unit		Communication wires	Power wires	Breaker Fuse	Main Address		RMC Address		Accessories	
Dept	Fl	Room	Name	Model name								Optional accessories	Basic accessories
-	-	-	-	-	mm2	mm2	A						
VRHOVNI SUD PODGORI CA	1F		SPOLJASNA JEDINICA 2	AM400KXVAGH/ET	~	~	100						
	4F	TRECI SPRAT 301	TRECI SPRAT 301	AM045TNADKH/EU	0.75~	~		1	8	0	0		
		TRECI SPRAT 301	TRECI SPRAT 301	AM022TNADKH/EU	0.75~	~		1	6	0	0		
		TRECI SPRAT 303	TRECI SPRAT 303	AM028TNADKH/EU	0.75~	~		1	4	0	0		
		TRECI SPRAT 304	TRECI SPRAT 304	AM028TNADKH/EU	0.75~	~		1	1	0	0		
		TRECI SPRAT 305	TRECI SPRAT 305	AM028TNADKH/EU	0.75~	~		1	2	0	0		
		TRECI SPRAT 306	TRECI SPRAT 306	AM028TNADKH/EU	0.75~	~		0	9	0	0		
		TRECI SPRAT 307	TRECI SPRAT 307	AM022TNADKH/EU	0.75~	~		0	7	0	0		
		TRECI SPRAT 308	TRECI SPRAT 308	AM028TNADKH/EU	0.75~	~		0	5	0	0		
		TRECI SPRAT 309	TRECI SPRAT 309	AM022TNADKH/EU	0.75~	~		0	2	0	0		
		TRECI SPRAT 311	TRECI SPRAT 311	AM036TNADKH/EU	0.75~	~		0	0	0	0		
		TRECI SPRAT 310	TRECI SPRAT 310	AM028TNADKH/EU	0.75~	~		0	3	0	0		
		TRECI SPRAT 312	TRECI SPRAT 312	AM036TNADKH/EU	0.75~	~		2	0	0	0		
		TRECI SPRAT 313	TRECI SPRAT 313	AM028TNADKH/EU	0.75~	~		2	2	0	0		
		TRECI SPRAT 314	TRECI SPRAT 314	AM028TNADKH/EU	0.75~	~		2	4	0	0		
		TRECI SPRAT 315	TRECI SPRAT 315	AM015TNADKH/EU	0.75~	~		2	5	0	0		
	Roof	POTKROVL JE 01	POTKROVLJE 01	AM045TNADKH/EU	0.75~	~		1	9	0	0		
		POTKROVL JE 02	POTKROVLJE 02_1	AM045TNADKH/EU	0.75~	~		1	7	0	0		
		POTKROVL JE 02	POTKROVLJE 02_2	AM045TNADKH/EU	0.75~	~		1	5	0	0		
		POTKROVL JE 03	POTKROVLJE 03	AM056TNADKH/EU	0.75~	~		1	3	0	0		
		POTKROVL JE 04	POTKROVLJE 04	AM056TNADKH/EU	0.75~	~		1	0	0	0		
		POTKROVL JE 05	POTKROVLJE 05	AM056TNADKH/EU	0.75~	~		0	8	0	0		
		POTKROVL JE 06	POTKROVLJE 06	AM056TNADKH/EU	0.75~	~		0	6	0	0		
		POTKROVL JE 07	POTKROVLJE 07	AM056TNADKH/EU	0.75~	~		0	4	0	0		
		POTKROVL JE 08	POTKROVLJE 08	AM056TNADKH/EU	0.75~	~		0	1	0	0		
		POTKROVL JE 09	POTKROVLJE 09	AM056TNADKH/EU	0.75~	~		2	1	0	0		
		POTKROVL JE 010	POTKROVLJE 010	AM082TNADKH/EU	0.75~	~		2	3	0	0		
		POTKROVL JE 011	POTKROVLJE 011	AM056TNVDKH/EU	0.75~	~		2	6	0	0		



2.2.3 Equipment list

1) Equipment list

Categories	Model name		Qty	Categories	Model name		Qty
DVM S(NEW)	AM400KXVAGH/ET	AM180KXVAGH/ET	1	Distributor Kit	MEV-E24SA		14
		AM220KXVAGH/ET	1		MEV-E32SA		12
Wind-Free		AM045TNADKH/EU	4	Y-Joint		MXJ-TA3419M	1
		AM022TNADKH/EU	3			MXJ-YA4119M	3
		AM028TNADKH/EU	8			MXJ-YA3419M	2
		AM036TNADKH/EU	2			MXJ-YA2815M	3
		AM015TNADKH/EU	1			MXJ-YA2812M	1
		AM056TNADKH/EU	7			MXJ-YA2512M	3
		AM082TNADKH/EU	1			MXJ-YA1509M	14
		AM056TNVDKH/EU	1				

2) Piping length

Length as pipe diameter		6.35	9.52	12.70	15.88	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.63	50.80	53.98
1. Liquid piping	m	51.40	2.81	210.25	16.28	16.17	34.16										
2. Gas piping	m			51.40	2.81	205.94	4.30		11.97		12.91		41.71				
3. High pressure gas piping	m																
Restriction of pipe length		Restriction (Based on installation manual)						Actual piping length				Equivalent piping length					
1. Total piping length	m	1000.00						343.05				103.26					
2. Maximum piping length	m	200.00						96.71									
3. Main pipe length	m							11.28									
4. Piping length between the first branch and the farthest indoor unit	m	45.00/90.00						82.45									
5. Level difference between outdoor and indoor unit(Max) (OD above ID unit / OD below ID unit)	m	40.00/110.00															
6. Level difference between indoor units	m	50.00															

3) Basic and additional charging ref. amount

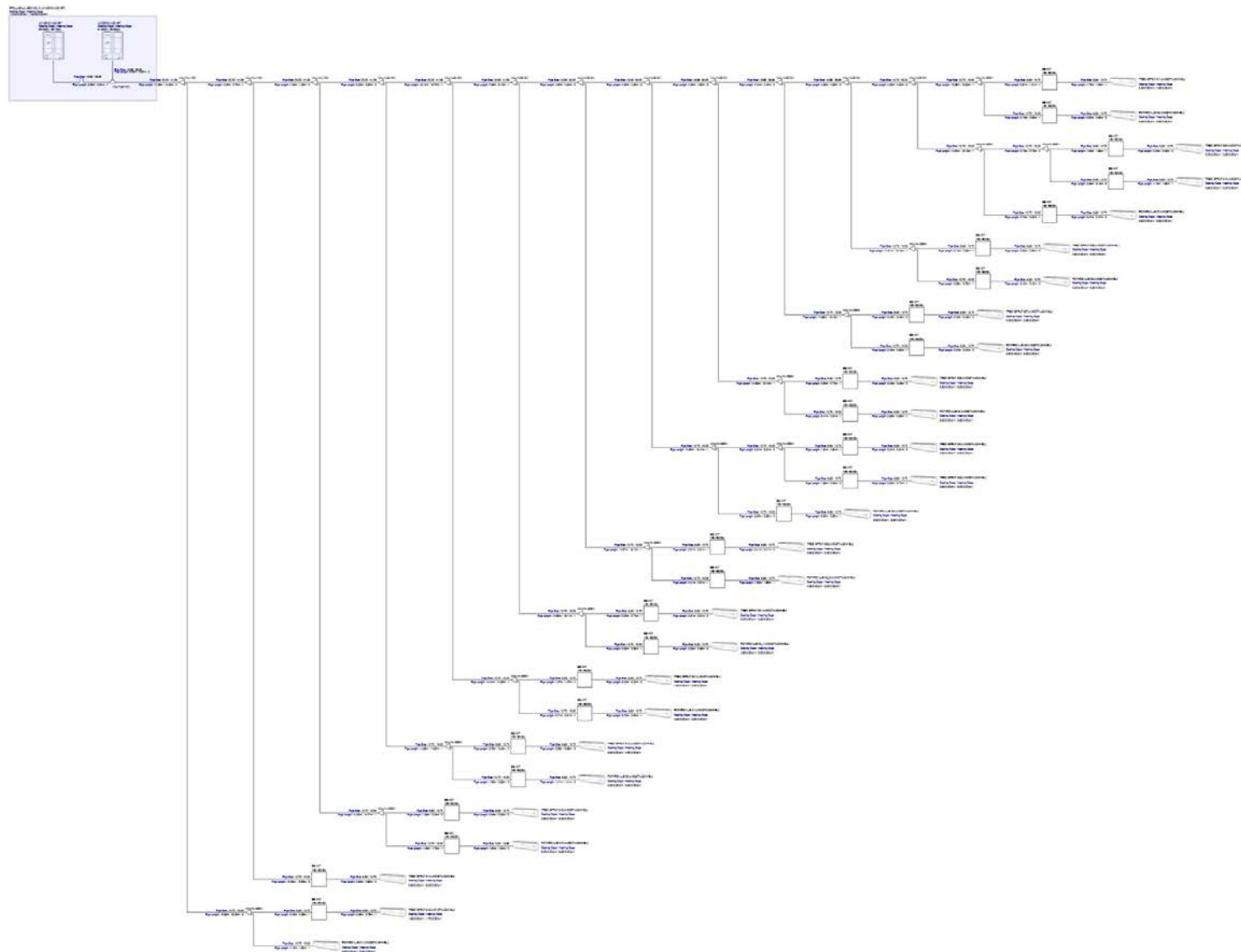
Basic (Factory) charge ref. amount : 16.800 kg

Additional Field charging ref. amount : kg

Total number of bendings : 61



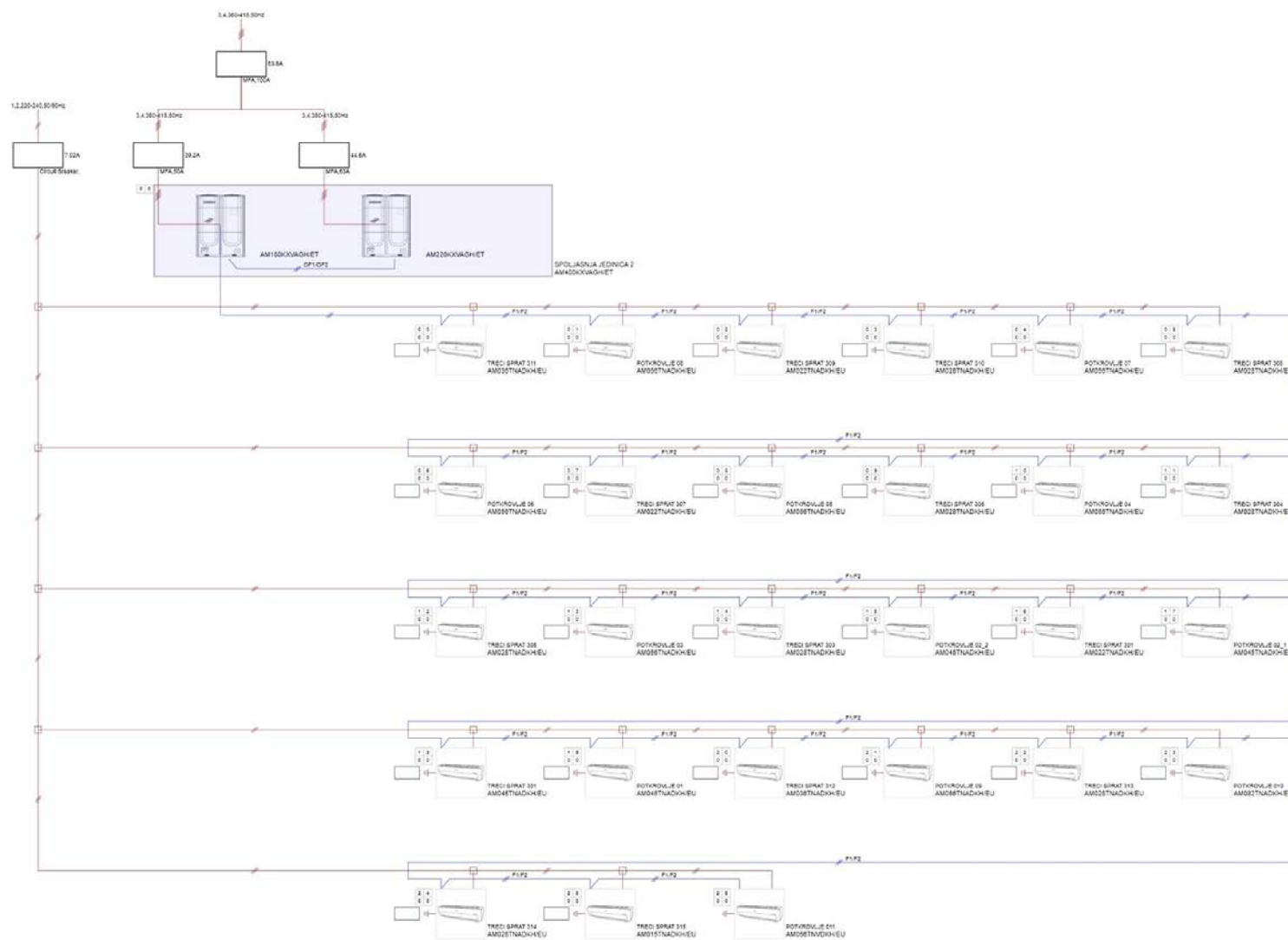
2.2.4 Piping



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



2.2.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.



3. Specification

3.1 DVM

3.1.1 Outdoor units

Model name				AM400KXVAGH/ET	AM440KXVAGH/ET	
Power supply			ø, #, V, Hz	3,4,380-415,50Hz	3,4,380-415,50Hz	
Mode			-	HEAT PUMP	HEAT PUMP	
Performance	HP/TON		HP/TON	40/31.85	44/35.03	
	Capacity(Nominal)	Cooling	kW	112	123.2	
			Kcal/h	96320	105950	
		Cooling 46°C	kW	-	-	
			Kcal/h	N/A	N/A	
		Heating	kW	126	138.6	
			Kcal/h	108360	119200	
	-20 °C	Heating(Low ambient temp.)	kW	-	-	
		Kcal/h	N/A	N/A		
Power	Power Input(Nominal)	Cooling	kW	29.95	34.7	
		Heating	kW	28.61	33.4	
	Power Input (at specific)		kW	N/A	N/A	
	Current Input(Nominal)	Cooling	A	48	55.6	
		Heating	A	45.9	53.6	
	Max. Current Input		A	83.8	89.2	
	Circuit Breaker		A	100	100	
COP	Cooling		-	3.74	3.55	
	Heating		W/W	4.40	4.15	
Compressor	Type		-	SSC Scrollx3	SSC Scrollx4	
	Output		kW × n	7.81x1 + 6.39x2	6.39x4	
Fan	Type		-	Propeller	Propeller	
	Output		W	620x4	620x4	
	Number of Units		EA	4	2	
	Air Flow Rate		CMM	290x2	290x2	
	External Static Pressure	Max.	mmAq	8	8	
Piping Connections	Liquid Pipe		ø,mm(in)	19.05(3/4")	19.05(3/4")	
	Gas Pipe		ø,mm(in)	41.28(1 5/8")	41.28(1 5/8")	
	Discharge Gas Pipe		ø,mm(in)	-(-)	-(-)	
	Oil Equalizing Pipe		ø,mm(in)	N/A(N/A)	N/A(N/A)	
Field Wiring	Power Source Wire		mm2	-	-	
	Transmission Cable		mm2	-	0.75/	
Refrigerant	Type		-	R410A	R410A	
	Factory Charging		kg	8.400x2	8.400x2	
Sound	Sound pressure		dB(A)	68	68	
External Dimension	Net Weight		kg	255.000x1 + 290.000x1	290.000x2	
	Shipping Weight		kg	275.000x1 + 310.000x1	310.000x2	
	Net Dimensions (WxHxD)		mm	(1295.00x1695.00x765.00)x2	(1295.00x1695.00x765.00)x2	
	Shipping Dimensions (WxHxD)		mm	(1363.00x1887.00x832.00)x2	(1363.00x1887.00x832.00)x2	
Operating Temp. Range	Cooling		°C	-5.00~48.00	-5.00~48.00	
	Heating		°C	-25.00~24.00	-25.00~24.00	



3.1.2 Indoor units

Model				AM022TNADKH/EU	AM022TNVDKH/UK	AM028TNADKH/EU	AM036TNADKH/EU	AM056TNADKH/EU
Power supply			Ø, #, V, Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz
Performance	Capacity(Nominal)	Cooling	kW	2.2	2.2	2.8	3.6	5.6
			Kcal/h	1890	1890	2410	3100	4820
		Cooling (SHC)	kW	1.5	1.5	1.9	2.4	3.8
			Kcal/h	1290	1290	1630	2060	3270
		Heating	kW	2.5	2.5	3.2	4	6.3
			Kcal/h	2150	2150	2750	3440	5420
Power	Power Input(Nominal)	Cooling	W	24	24	30	37	52
		Heating		24	24	30	37	52
	Current Input	Cooling	A	0.16	0.2	0.2	0.25	0.35
		Heating		0.16	0.2	0.2	0.25	0.35
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Output	W	27	27	27	27	27
		Number of unit	EA	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	5.70/5.00/4.50	5.70/5.00/4.50	8.50/7.70/6.90	10.30/9.10/8.30	15.70/13.80/12.00
	External Pressure	Min / Std / Max	mmAq	-	-	-	-	-
Piping Connections	Liquid Pipe		Ø,mm(in)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")
	Gas Pipe		Ø,mm(in)	12.7(1/2")	12.7(1/2")	12.7(1/2")	12.7(1/2")	12.7(1/2")
	Drain Pipe		Ø,mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire		mm2					
	Transmission Cable		mm2	0.75/-	0.75/-	0.75/-	0.75/-	0.75/-
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound pressure	High / Low	dBA	34/30	34/30	34/32	40/34	40/34
Dimensions	Net Weight		kg	8.500	9.000	9.000	9.000	11.500
	Shipping Weight		kg	10.000	10.500	10.500	10.500	13.500
	Net Dimensions (WxHxD)		mm	820.00x299.00x215.00	820.00x299.00x215.00	820.00x299.00x215.00	820.00x299.00x215.00	1055.00x299.00x215.00
	Shipping Dimensions (WxHxD)		mm	880.00x290.00x375.00	880.00x290.00x375.00	880.00x290.00x375.00	880.00x290.00x375.00	1115.00x290.00x375.00
Panel Size	Panel model		-					
	Panel Net Weight		kg					
	Shipping Weight		kg					
	Net Dimensions (WxHxD)		mm					
	Shipping Dimensions (WxHxD)		mm					



Model				AM015TNADKH/EU	AM045TNADKH/EU	AM056TNVDKH/EU	AM082TNADKH/EU	
Power supply			Ø, #, V, Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz	1,2,220-240,50/60Hz	
Performance	Capacity(Nominal)	Cooling	kW	1.5	4.5	5.6	8.2	
			Kcal/h	1290	3870	4820	7050	
		Cooling (SHC)	kW	1	3.1	3.8	5.6	
			Kcal/h	860	2670	3270	4820	
		Heating	kW	1.7	5	6.3	8.5	
			Kcal/h	1460	4300	5420	7310	
Power	Power Input(Nominal)	Cooling	W	20	40	52	65	
		Heating		20	40	52	65	
	Current Input	Cooling	A	0.13	0.27	0.35	0.43	
		Heating		0.13	0.27	0.35	0.43	
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	
		Output	W	27	27	27	27	
		Number of unit	EA	1	1	1	1	
	Air Flow Rate	H/M/L (UL)	CMM	4.90/4.50/4.10	12.50/11.40/10.50	15.70/13.80/12.00	17.50/15.60/13.80	
	External Pressure	Min / Std / Max	mmAq	-	-	-	-	
Piping Connections	Liquid Pipe		Ø,mm(in)	6.35(1/4")	6.35(1/4")	6.35(1/4")	9.52(3/8")	
	Gas Pipe		Ø,mm(in)	12.7(1/2")	12.7(1/2")	12.7(1/2")	15.88(5/8")	
	Drain Pipe		Ø,mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	
Field Wiring	Power Source Wire		mm2					
	Transmission Cable		mm2	0.75/-	0.75/-	0.75/-	0.75/-	
Refrigerant	Type		-	R410A	R410A	R410A	R410A	
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV INCLUDED	EEV NOT INCLUDED	
Sound	Sound pressure	High / Low	dBA	31/27	37/33	40/34	46/43	
Dimensions	Net Weight		kg	8.500	11.500	12.000	12.500	
	Shipping Weight		kg	10.000	13.500	14.000	14.500	
	Net Dimensions (WxHxD)		mm	820.00x299.00x215.00	1055.00x299.00x215.00	1055.00x299.00x215.00	1055.00x299.00x215.00	
	Shipping Dimensions (WxHxD)		mm	880.00x290.00x375.00	1115.00x290.00x375.00	1115.00x290.00x375.00	1115.00x290.00x375.00	
Panel Size	Panel model		-					
	Panel Net Weight		kg					
	Shipping Weight		kg					
	Net Dimensions (WxHxD)		mm					
	Shipping Dimensions (WxHxD)		mm					



4. Controller





5. Total Equipment List

Index	Model	Qty	Remark(Categories)	Unit Price	Amount
Outdoor unit	AM180KXVAGH/ET	1	DVM S(NEW)	0	0
	AM220KXVAGH/ET	3	DVM S(NEW)	0	0
Indoor unit	AM015TNADKH/EU	4	Wind-Free	0	0
	AM022TNADKH/EU	7	Wind-Free	0	0
	AM022TNVDKH/UK	1	Wind-Free	0	0
	AM028TNADKH/EU	21	Wind-Free	0	0
	AM036TNADKH/EU	12	Wind-Free	0	0
	AM045TNADKH/EU	10	Wind-Free	0	0
	AM056TNADKH/EU	8	Wind-Free	0	0
	AM056TNVDKH/EU	1	Wind-Free	0	0
	AM082TNADKH/EU	1	Wind-Free	0	0
Piping	MEV-E24SA	44	Distributor Kit	0	0
	MEV-E32SA	19	Distributor Kit	0	0
	MXJ-TA3419M	2	Y-Joint	0	0
	MXJ-YA4119M	10	Y-Joint	0	0
	MXJ-YA3419M	6	Y-Joint	0	0
	MXJ-YA2815M	9	Y-Joint	0	0
	MXJ-YA2512M	9	Y-Joint	0	0
	MXJ-YA1509M	28	Y-Joint	0	0
	MXJ-YA2812M	1	Y-Joint	0	0
Ref. Pipe	6.35(1/4")	151.76	m	0	0
	12.70(1/2")	534.99	m	0	0
	15.88(5/8")	30.18	m	0	0
	19.05(3/4")	401.41	m	0	0
	22.22(7/8")	80.01	m	0	0
	28.58(1 1/8")	25.25	m	0	0
	34.92(1 3/8")	21.59	m	0	0
	41.28(1 5/8")	83.08	m	0	0
	9.52(3/8")	2.81	m	0	0
Additional Ref. Amount	R410A	0	kg	0	0
Total					0











DVM

SAMSUNG

R.br.	Opis pozicije	Jedinica mjere	Količina	Jedinična cijena	Ukupno	Izgled uređaja
	SAMSUNG DVM S STANDARD SPOLJAŠNJA JEDINICA AM180KXVAGH/ET Spoljašnja jedinica VRV sistema serije DVM S STANDARD Proizvođač: SAMSUNG Južna Koreja Tip: AM180KXVAGH/ET Nominalni kapacitet hlađenja : 50.4 kW Nominalni kapacitet grijanja: 50.4 kW Maksimalan broj unutrašnjih jedinica: 32 Nominalna potrošnja u hlađenju: 13.64 kW Nominalna potrošnja u grijanju: 10.78 kW EER/COP (hlađenje/grijanje): 3.7/4.68 Kompresor: Inverterski scroll kompresor Rashladni fluid: R410a Radni režim - grijanje: -25° ÷ +24° Radni režim - hlađenje: -5° ÷ +48 ° Dimenzije (širina x visina x dubina): 1295 x 1695 x 765 mm Nivo zvučnog pritiska(Hlađenje): 64 dB(A) Nivo zvučnog pritiska(Grijanje): 67 dB(A) Težina: 255 kg Priključci (tečna/gasna faza): 15.88mm/28.58mm Maksimalna dužina instalacije (Prva račva - UJ): 90m Maksimalna dužina instalacije: 1000 m Duzina cjevovodua (SJ - UJ): 200m , Ekvivalentna: 220m Maksimalna visinska razlika između spoljašnje i unutrašnje jedinice (Spoljašnja je na najvećoj visini): 110m Maksimalna visinska razlika između spoljašnje i unutrašnje jedinice (Unutrašnja je na najvećoj visini): 110m Fabrički pripremljena količina freona : 8.4kg El.priključak (V/Hz/f): 380÷415/50/3	kom	1,00	8.238,00 €	8.238,00 €	
	SAMSUNG DVM S STANDARD SPOLJAŠNJA JEDINICA AM220KXVAGH/ET Spoljašnja jedinica VRV sistema serije DVM S STANDARD Proizvođač: SAMSUNG Južna Koreja Tip: AM220KXVAGH/ET Nominalni kapacitet hlađenja : 61.6 kW Nominalni kapacitet grijanja: 58 kW Maksimalan broj unutrašnjih jedinica: 40 Nominalna potrošnja u hlađenju: 18.53 kW Nominalna potrošnja u grijanju: 12.89 kW EER/COP (hlađenje/grijanje): 3.32/4.50 Kompresor: Inverterski scroll kompresor Rashladni fluid: R410a Radni režim - grijanje: -25° ÷ +24° Radni režim - hlađenje: -5° ÷ +48 ° Dimenzije (širina x visina x dubina): 1295 x 1695 x 765 mm Nivo zvučnog pritiska(Hlađenje): 65 dB(A) Nivo zvučnog pritiska(Grijanje): 67 dB(A) Težina: 290 kg Priključci (tečna/gasna faza): 15.88mm/28.58mm Maksimalna dužina instalacije (Prva račva - UJ): 90m Maksimalna dužina instalacije: 1000 m Duzina cjevovodua (SJ - UJ): 200m , Ekvivalentna: 220m Maksimalna visinska razlika između spoljašnje i unutrašnje jedinice (Spoljašnja je na najvećoj visini): 110m Maksimalna visinska razlika između spoljašnje i unutrašnje jedinice (Unutrašnja je na najvećoj visini): 110m Fabrički pripremljena količina freona : 8.4kg El.priključak (V/Hz/f): 380÷415/50/3	kom	3,00	10.015,00 €	30.045,00 €	

SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM015JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Proizvođač: SAMSUNG Južna Koreja Tip: AM015JNVDKH/EU Nominalni kapacitet hlađenja: 1.5 kW Nominalni kapacitet grijanja: 1.7 kW Protok vazduha (m³/min): 3.80/4.20/4.40 Dimenzije (širina x visina x dubina): 750x249x246 mm Nivo zvučnog pritiska(min/med/max): 24 / 25 / 28 dB(A) Težina: 7.9 kg Priključci (tečna-gasna faza): 6,35mm/12,7mm El.priključak (V/Hz/f): 220÷240/50/1	kom	4,00	407,00 €	1.628,00 €	
SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM022JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Tip: AM022JNVDKH/EU Nominalni kapacitet hlađenja: 2.2 kW Nominalni kapacitet grijanja: 2.5 kW Protok vazduha (m³/min): 4.00/4.70/5.40 Dimenzije (širina x visina x dubina): 750x249x246 mm Nivo zvučnog pritiska(min/med/max): 25 / 29 / 33 dB(A) Težina: 7.9 kg Priključci (tečna-gasna faza): 6,35mm/12,7mm El.priključak (V/Hz/f): 220÷240/50/1	kom	8,00	419,00 €	3.352,00 €	
SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM028JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Proizvođač: SAMSUNG Južna Koreja Tip: AM028JNVDKH/EU Nominalni kapacitet hlađenja: 2.8 kW Nominalni kapacitet grijanja: 3.2 kW Protok vazduha (m³/min): 4.30/5.00/5.70 Dimenzije (širina x visina x dubina): 750x249x246 mm Nivo zvučnog pritiska(min/med/max): 25 / 31 / 36 dB(A) Težina: 7.9 kg Priključci (tečna-gasna faza): 6,35mm/12,7mm El.priključak (V/Hz/f): 220÷240/50/1	kom	21,00	436,00 €	9.156,00 €	
SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM036JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Proizvođač: SAMSUNG Južna Koreja Tip: AM036JNVDKH/EU Nominalni kapacitet hlađenja: 3.6 kW Nominalni kapacitet grijanja: 4 kW Protok vazduha (m³/min): 4.60/5.70/7.10 Dimenzije (širina x visina x dubina): 826x261x261 mm Nivo zvučnog pritiska(min/med/max): 30 / 34 / 37 dB(A) Težina: 9.6 kg Priključci (tečna-gasna faza): 6,35mm/12,7mm El.priključak (V/Hz/f): 220÷240/50/1	kom	12,00	465,00 €	5.580,00 €	

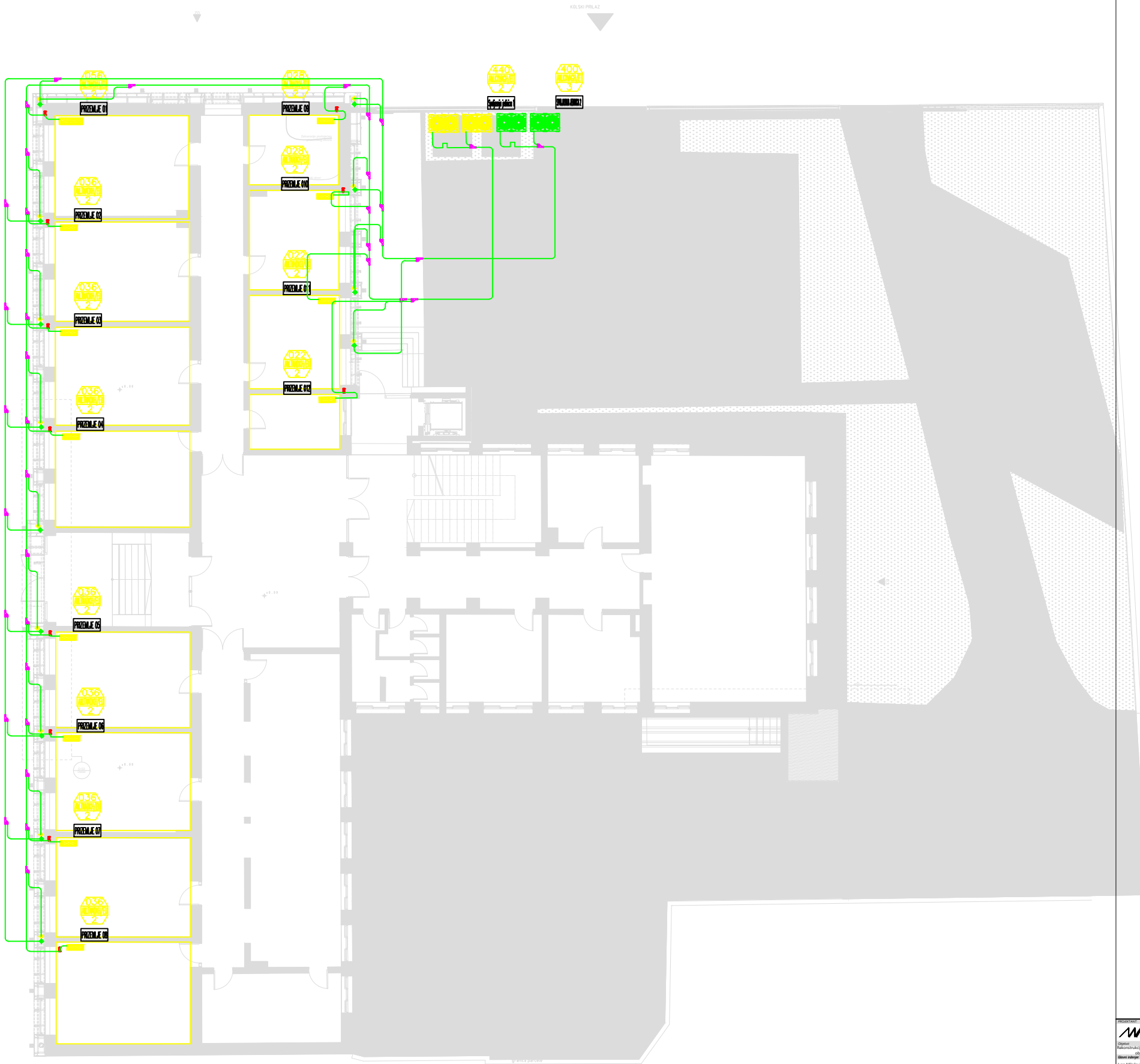
SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM045JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Proizvođač: SAMSUNG Južna Koreja Tip: AM045JNVDKH/EU Nominalni kapacitet hlađenja: 4.5 kW Nominalni kapacitet grijanja: 5 kW Protok vazduha (m³/min): 6.00/7.50/8.90 Dimenzije (širina x visina x dubina): 826x261x261 mm Nivo zvučnog pritiska(min/med/max): 34 / 38 / 41 dB(A) Težina: 9.6 kg Priključci (tečna-gasna faza): 6,35mm/12,7mm El.priključak (V/Hz/f): 220÷240/50/1	kom	10,00	484,00 €	4.840,00 €	
SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM056JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Proizvođač: SAMSUNG Južna Koreja Tip: AM056JNVDKH/EU Nominalni kapacitet hlađenja: 5.6 kW Nominalni kapacitet grijanja: 6.3 kW Protok vazduha (m³/min): 8.20/10.00/11.80 Dimenzije (širina x visina x dubina): 1065x301x294 mm Nivo zvučnog pritiska(min/med/max): 33 / 36 / 39 dB(A) Težina: 14.5 kg Priključci (tečna-gasna faza): 6,35mm/12,7mm El.priključak (V/Hz/f): 220÷240/50/1	kom	9,00	497,00 €	4.473,00 €	
SAMSUNG DVM UNUTRAŠNJA ZIDNA JEDINICA AR5000 EEV AM082JNVDKH/EU Unutrašnja zidna jedinica VRV sistema. Izvedba u obliku trougla omogućava uvećani protok vazduha. Integrisan elektronski ekspanzioni ventil. Proizvođač: SAMSUNG Južna Koreja Tip: AM082JNVDKH/EU Nominalni kapacitet hlađenja: 8.2 kW Nominalni kapacitet grijanja: 8.5 kW Protok vazduha (m³/min): 12.40/14.30/16.70 Dimenzije (širina x visina x dubina): 1065x301x294 mm Nivo zvučnog pritiska(min/med/max): 40 / 43 / 47 dB(A) Težina: 14.5 kg Priključci (tečna-gasna faza): 9,52mm/15,88mm El.priključak (V/Hz/f): 220÷240/50/1	kom	1,00	635,00 €	635,00 €	
Termostati: AR- KH03E	kom	65	25,00 €	1.625,00 €	

Bakarni fazonski komadi, V i T račve:: MEV-E245A MEV-E325A MXJ-TA3419M MXJ-YA4119M MXJ-YA3419M MXJ-YA2815M MXJ-YA2512M MXJ-YA1509M MXJ-YA2812M	kom	44	81,00 €	3.564,00 €	
	kom	19	89,00 €	1.691,00 €	
	kom	2	124,00 €	248,00 €	
	kom	10	170,00 €	1.700,00 €	
	kom	6	101,00 €	606,00 €	
	kom	9	122,00 €	1.098,00 €	
	kom	9	82,00 €	738,00 €	
	kom	28	48,00 €	1.344,00 €	
	kom	1	101,00 €	101,00 €	
Pomoćni materijal za povezivanje i montažu bakarnih fazonskih komada (tiple, vijci, perforirana traka, alu traka, elektro vezice, gas, žica za lem i sl.) Uzima se 25% od ukupne cijene.	%	25%	11.090,00 €	2.772,50 €	
Bakarne cijevi za razvod freona, sledećih dimenzija: 6,35 (1/4") 9,52 (3/8") 12,70 (1/2") 15,87 (5/8") 19,05 (3/4") 22,22 (7/8") 28,58 (1 1/8") 34,92 (1 3/8") 41,28 (1 5/8")	m'	152	1,40 €	212,80 €	
	m'	3	2,09 €	6,27 €	
	m'	535	2,80 €	1.498,00 €	
	m'	31	4,20 €	130,20 €	
	m'	402	5,30 €	2.130,60 €	
	m'	80	5,80 €	464,00 €	
	m'	26	6,30 €	163,80 €	
	m'	22	7,20 €	158,40 €	
	m'	84	8,60 €	722,40 €	
Pomoćni materijal za povezivanje i montažu bakarnih cjevovoda (tiple, vijci, perforirana traka, alu traka, elektro vezice, gas, žica za lem i sl.) Uzima se 25% od ukupne cijene bakarnih cjevovoda.	%	25%	5.486,47 €	1.371,62 €	
Isporučka i montaža cjevaste termičke izolacije sa parnom branom: 6,35 (1/4") 9,52 (3/8") 12,70 (1/2") 15,87 (5/8") 19,05 (3/4") 22,22 (7/8") 28,58 (1 1/8") 34,92 (1 3/8") 41,28 (1 5/8")	m'	152	1,20 €	182,40 €	
	m'	3	1,30 €	3,90 €	
	m'	535	1,35 €	722,25 €	
	m'	31	1,40 €	43,40 €	
	m'	402	1,45 €	582,90 €	
	m'	80	1,70 €	136,00 €	
	m'	26	3,15 €	81,90 €	
	m'	22	3,50 €	77,00 €	
	m'	84	3,80 €	319,20 €	
Pomoćni materijal za povezivanje i montažu bakarnih cjevovoda (tiple, vijci, perforirana traka, alu traka, elektro vezice, gas, žica za lem i sl.) Uzima se 25% od ukupne cijene bakarnih cjevovoda.	%	25%	2.148,95 €	537,24 €	
Cijevi od plastike (PVC) za odvod kondezata iz unutrašnjih jedinica. PVC Ø32 Fazonski komadi i potrošni materijal za povezivanje PVC cijevi. Uzima se 50% od ukupne cijene PVC cjevovoda.	m'	450	0,65 €	292,50 €	
	%	50%	292,50 €	146,25 €	
Aluplast cijevi PEX-AL-PEX za odvod kondezata iz unutrašnjih jedinica. PEX-AL-PEX Ø20 Potrošni materijal za montažu PEX-AL-PEX cijevi. Uzima se 10% od ukupne cijene PEX-AL-PEX cjevovoda.	m'	110	0,90 €	99,00 €	
	%	10%	99,00 €	9,90 €	
Isporučka dodatnog freona R410a. Fabrički pripremljena količina u spoljašnjoj jedinici se dopunjuje dodatnim freonom shodno podacima proizvođača opreme, a prema dužini bakarnog razvoda za svaku unutrašnju jedinicu.	kg	115	10,00 €	1.150,00 €	
* Predmjerom i predračunom nije obuhvaćeno izvođenje radova i montaža opreme					

REKAPITULACIJA:

94.676,43 €

Ukupno bez PDV-a:



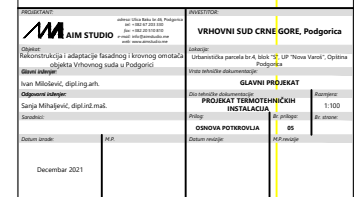


IZRAĐIO: MM MM STUDIO <small>MM Studio d.o.o. Podgorica ul. 13. avgusta 10, 81000 Podgorica tel: +382 (0) 20 20 20 20 fax: +382 (0) 20 20 20 20 e-mail: mmstudio@mmstudio.me www.mmstudio.me</small>		INVESTICIONER: VRHOVNI SUD CRNE GORE, Podgorica	
OPIS: Rekonstrukcija i adaptacija fasadnog i krovnog omotača objekta Vrhovnog suda u Podgorici		LOKACIJA: Urbanska peraza br. 4, blok "C", LP "Nova Vana", Opština Podgorica	
GLAVNI INŽINJER: Ivan Miličević, diplom. arh.		GLAVNI PROJEKTANT: Dejan Vukobratović, diplom. inž. građ.	
OPIS: PROJEKT: PROJEKT TERMOIZOLACIJSKE INSTALACIJE		SKALA: 1:100	
SARAJ: Sarajje, Mihaljević, dipl. inž. maš.		DOKUMENTACIJA: OSNOVNA PRVOS PRIPRATA	
Datum izdavanja: 12.12.2021		Datum revizije: 12.12.2021	



PROJEKTANT		INVESTITOR	
AIM STUDIO		VRHOVNI SUD CRNE GORE, Podgorica	
Rekonstrukcija i adaptacija fasadnog i krovnog omotača objekta Vrhovnog suda u Podgorici		Urbaniistička parcela br.4, blok "D", UP "Nova Varel", Opština Podgorica	
Glavni inženjer: Ivan Mirošević, dipl.ing.arh.		Glavni projektant: PROJEKAT TERMOTEHNIČKIH INSTALACIJA	
Saglasnost inženjera: Sanja Mihaljević, dipl.inž.maš.		Osnova drugog sprata	
Datum izdavanja: 10.12.2021		Datum revizije: 10.12.2021	





List of Equipment

6. Quote

Category	Model Name	Qty	Note	Unit Cost	Amount
Outdoor Unit	AM180KXVAGH/ET		1DM S(NEW) (2017 HP Standard)	0	0
	AM220KXVAGH/ET		3DM S(NEW) (2017 HP Standard)	0	0
Indoor Unit	AM015TNADKH/EU	4	Wind-Free	0	0
	AM022TNADKH/EU	7	Wind-Free	0	0
	AM022TNADKH/UK	1	Wind-Free	0	0
	AM028TNADKH/EU	2	Wind-Free	0	0
	AM036TNADKH/EU	12	Wind-Free	0	0
	AM045TNADKH/EU	10	Wind-Free	0	0
	AM056TNADKH/EU	1	Wind-Free	0	0
	AM056TNADKH/EU	8	Wind-Free	0	0
	AM082TNADKH/EU	1	Wind-Free	0	0
Piping		0		0	0
Optional Accessories		0		0	0
Control System		0		0	0
Ref. Pipe	6.35	151.76	m	0	0
	9.52	2.81	m	0	0
	12.70	534.99	m	0	0
	15.88	30.18	m	0	0
	19.05	401.41	m	0	0
	22.22	80.01	m	0	0
	28.58	25.25	m	0	0
	34.92	21.59	m	0	0
	41.28	83.08	m	0	0
Drain Pipe				0	0
Additional Ref. Amount	R410A	0.000	kg	0	0
Total					

Standard					
Category	Model Name	Qty	Note	Unit Cost	Amount
Optional Accessories		0		0	0
Control System		0		0	0
Total					

- The power supply cable is selected according to the condition of air duct installation / ambient temperature 30°C(86°F) / single multi conductor cables. If the condition is different from those above consult the installation expert.
- * The electronic capacity of building is selected according to $[-10^{\circ}\text{C}(14^{\circ}\text{F}) - 15^{\circ}\text{C}(5^{\circ}\text{F}) / \text{Max of Power Input}]$.
 - * The power should be supplied through the breaker(MCCB & ELB).
 - * Install the air filter or suction diffuser when duct type indoor unit is installed.
 - * Install the horizontal drainpipe with a slope of 1/100 or more.
 - * Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.
 - * Install u-trap at the end of the condensate to prevent a sewer gases from entering indoor units.
 - If gravity drain is not possible, a condensate pump should be installed.
 - * Distance between indoor unit and beam projector : more than 2m (6.56ft)
 - * Distance between indoor unit and fire detector : more than 1.5m (4.92ft)



Load profile














Load profile

Indoor Unit												Outdoor Unit											
Room			Required Capacity						Model			Nominal Capacity						Total Nominal Capacity					
Floor	Room Name	Area	Vol/M ³ /s	Vol/M ³ /s	Cooling			Heating			Qty	Cooling			Heating			Cooling			Heating		
					TC	SHC		TC		Model Type		TC	SHC		TC			TC			TC		
—	—	(m ²)	(l/s)	(l/s)	(kW)	(kcal/h)	(l/s)	(kW)	(kcal/h)	—	(EA)	(kW)	(kcal/h)	(l/s)	(kW)	(kcal/h)		(kW)	(kcal/h)	(l/s)	(kW)	(kcal/h)	
4F	TRECI SPINT 304	20.09	0.01	0.10	0.20	170	—	2.01	1,730	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 305	22.17	0.01	0.10	0.22	190	—	2.22	1,910	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 306	27.80	0.01	0.10	0.28	240	—	2.78	2,380	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 307	19.46	0.01	0.10	0.19	160	—	1.95	1,680	Wind-Free	1	2.20	1,890	1.50	1,290	2.50	2,150	2.20	1,890	2.50	2,150		
	TRECI SPINT 308	21.58	0.01	0.10	0.22	190	—	2.16	1,880	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 309	19.95	0.01	0.10	0.20	170	—	2.00	1,720	Wind-Free	1	2.20	1,890	1.50	1,290	2.50	2,150	2.20	1,890	2.50	2,150		
	TRECI SPINT 311	28.39	0.01	0.10	0.29	250	—	2.94	2,530	Wind-Free	1	3.60	3,100	2.40	2,080	4.00	3,440	3.60	3,100	4.00	3,440		
	TRECI SPINT 310	21.89	0.01	0.10	0.22	190	—	2.19	1,890	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 312	19.33	0.01	0.10	0.19	160	—	1.83	1,680	Wind-Free	1	3.60	3,100	2.40	2,080	4.00	3,440	3.60	3,100	4.00	3,440		
	TRECI SPINT 313	21.80	0.01	0.10	0.22	190	—	2.18	1,670	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 314	19.37	0.01	0.10	0.19	160	—	1.94	1,670	Wind-Free	1	2.80	2,410	1.90	1,630	3.20	2,750	2.80	2,410	3.20	2,750		
	TRECI SPINT 315	12.88	0.01	0.10	0.13	110	—	1.27	1,090	Wind-Free	1	1.50	1,290	1.00	880	1.70	1,460	1.50	1,290	1.70	1,460		



List of Equipment

Indoor Unit																										
Designation	Qty (St)	Type	Model	Cooling Capacity		Heating Capacity		Fan	Refrigerant	Ripple Connections			Net Dimensions (mm) (W x H x D)	Panel Dimensions (mm) (W x H x D)	Weight (kg)	Sound Level (dB)		Power Input (kW)		T.C (mm)	P.C (mm)	Power Supply (V, φ, N, Hz)	Note			
				(kW)	(kW/h)	(kW)	(kW/h)			Height (mm)	Size (mm)	Depth				Cooling	Heating	Cooling	Heating							
	4	Wind-Free	AM015WMDH/EU	1.50	1,290	1.70	1,480	Crossflow Fan	4.80/4.50/4.10	27.0	-	R410A	6.35	12.70	D18	820x298x215	-	8.500	0.1	0.1	20.0	20.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	7	Wind-Free	AM022WMDH/EU	2.20	1,880	2.50	2,150	Crossflow Fan	5.70/5.00/4.50	27.0	-	R410A	6.35	12.70	D18	820x298x215	-	8.500	0.2	0.2	24.0	24.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	1	Wind-Free	AM022WMDH/UK	2.20	1,880	2.50	2,150	Crossflow Fan	5.70/5.00/4.50	27.0	-	R410A	6.35	12.70	D18	820x298x215	-	8.000	0.2	0.2	24.0	24.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	21	Wind-Free	AM028WMDH/EU	2.80	2,410	3.20	2,750	Crossflow Fan	6.50/7.70/6.80	27.0	-	R410A	6.35	12.70	D18	820x298x215	-	8.000	0.2	0.2	30.0	30.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	12	Wind-Free	AM036WMDH/EU	3.60	3,100	4.00	3,440	Crossflow Fan	10.30/9.10/8.30	27.0	-	R410A	6.35	12.70	D18	820x298x215	-	8.000	0.3	0.3	37.0	37.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	10	Wind-Free	AM045WMDH/EU	4.50	3,870	5.00	4,300	Crossflow Fan	12.50/11.40/10.50	27.0	-	R410A	6.35	12.70	D18	1,055x298x215	-	11.500	0.3	0.3	40.0	40.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	1	Wind-Free	AM056WMDH/EU	5.60	4,820	6.30	5,420	Crossflow Fan	15.70/13.80/12.00	27.0	-	R410A	6.35	12.70	D18	1,055x298x215	-	12.000	0.4	0.4	52.0	52.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	8	Wind-Free	AM056WMDH/EU	5.60	4,820	6.30	5,420	Crossflow Fan	15.70/13.80/12.00	27.0	-	R410A	6.35	12.70	D18	1,055x298x215	-	11.500	0.4	0.4	52.0	52.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
	1	Wind-Free	AM082WMDH/EU	8.20	7,050	8.50	7,310	Crossflow Fan	17.50/15.60/13.80	27.0	-	R410A	9.52	15.88	D18	1,055x298x215	-	12.500	0.4	0.4	65.0	65.0	0.75~	-	3,220~240,50/90(Ground vln)	Etc
Total	85																									

Outdoor Unit																											
Designation	Qty (St)	Type	Model	Cooling Capacity		Heating Capacity		Compressor		Fan		Refrigerant	Ripple Dimensions				Net Dimensions (mm) (W x H x D)	Weight (kg)	Sound level (dB)	Power Input (kW)		C.B (kg)	T.C (mm)	P.C (mm)	Power Supply (V, φ, N, Hz)	Note	
				(kW)	(kW/h)	(kW)	(kW/h)	Type	Output (mm)	Type	# No (No. (250))		Height (mm)	Size (mm)	Exchange Size (mm)	DB Equivalency (mm)				Cooling	Heating						Cooling
	1	SW 5000 2017 HP Standard	AM4000WMDH/ET	112.00	96,300	126.00	108,340	SSC Scroll3	7.81x4.38x2	Propeller	290.00x2	R410A	19.05	41.28	-	-	(1,295x1,895x765)x2	255,000x290,000	83.8 (MC)	30.0	28.6	-	100.0	-	-	3,4,380~415,50(Ground vln)	Etc
	1	SW 5000 2017 HP Standard	AM4000WMDH/ET	123.20	105,800	138.60	119,170	SSC Scroll4	6.38x4	Propeller	290.00x2	R410A	19.05	41.28	-	-	(1,295x1,895x765)x2	290,000x2	88.2 (MC)	34.7	33.4	-	100.0	0.75	-	3,4,380~415,50(Ground vln)	Etc
Total		2																									

