


# Design Simulator

Izabrati dugme za brisanje

Izabrati dugme za kopiranje

Izabrati dugme za izmenu



## Dodaj novu spoljnu jedinicu

**Input new outdoor unit**

Name:

Comments:

Refrigerant: R410A

Model:

Type: V-III Heat pump space saving combination

Model: ☐ Manual selection

PS: ---

Combination: 100% ☒ Full Load  
☐ Partial Load

Language No.

---

Outdoor dry bulb temperature

Cooling: C  Heating: C

Actual capacity

Cooling: 84.0 kW Heating: 94.5 kW

Piping

Actual piping length: m

Position of outdoor unit relative to indoor unit

☐ Higher ↑ ☒ Same Floor → ☐ Lower ↓

Height difference between outdoor and indoor units: m

Downsizing of pipe diameter

☐ Apply

Oldr1 0%

**Indoor unit not yet connected**

- ☒ Indr1 Cassette
- ☒ Indr2 Cassette
- ☒ Indr3 Cassette
- ☒ Indr4 Cassette
- ☒ Indr5 Cassette
- ☒ Indr6 Cassette
- ☒ Indr7 Cassette
- ☒ Indr8 Cassette
- ☒ Indr9 Cassette
- ☒ Indr10 Cassette
- ☒ Indr11 Cassette
- ☒ Indr12 Cassette
- ☒ Indr13 Cassette
- ☒ Indr14 Cassette
- ☒ Indr15 Cassette

### Spoljna jedinica (2/4)

Input new outdoor unit

Name:

Comments:

Refrigerant: R410A

Model:

Type:

Model: ☐ Manual selection

PS: ---

Combination:

Language No:

Full Load ☒

Partial Load ☐

Outdoor dry bulb temperature

Cooling: C

Heating: C

Actual capacity

Cooling: 84.0 kW

Heating: 94.5 kW

Piping

Actual piping length: m

Position of outdoor unit relative to indoor unit

☐ Higher ☒ Same Floor ☐ Lower

Height difference between outdoor and indoor units: m

Downsizing of pipe diameter

☐ Apply

Preview

Partial Load operation

Cancel

OK

Prikaz imena preference

Ulazni komentari. (ograničenje je 10 karaktera)  
Moguće je slobodno pisati. (Primer. : Krov, 1F)

Izaberite vrstu spoljne jedinice

Izabrati model spoljne jedinice

Lista kapaciteta spoljnih jedinica

Izabrati maksimalni limit. Ukoliko se maksimalni limit prekorači, spoljna jedinica će se automatski promeniti na model iznad.

Izabrati vrstu opterećenja.

Uneti uslove za dizajn spoljne jedinice .  
Ukoliko se ne odlučite za početne dizajn uslove, podrazumevani ulazni parametri ce biti „35C,, na hladjenju i „7C,, na grejanju

Uneti vrednost „Stvarne dužine cevi“ i "Visinska razlika".  
Odabrati poziciju spoljne jedinice povezane sa unutrašnjom jedinicom.(\*1)

Umanjenje prečnika cevi(\*1)

Delimična radna opterećenost

(\*1) The loss coefficient is automatically calculated.

## Spoljna jedinica (3/4)

Crvena oznaka označava uslove za dizajn.

Koristite ekran za unos unutrašnjih jedinica da biste podesili njihovo grupisanje (prevuci i pusti)

Model spoljne jedinice i unutrašnje jedinice su odabrani automatski.

Input new outdoor unit

Name: Otdr1

Comments:

Refrigerant: R410A

Model: VR-II Heat Recovery space saving combination

PS: Full Load

Combination: 100%

Language No:

Outdoor dry bulb temperature: Cooling: 35, Heating: 7

Actual capacity: Cooling: 84.0 kW, Heating: 94.5 kW

Piping: Actual piping length: 7.5

Position of outdoor unit relative to indoor unit: Same Floor

Height difference between outdoor and indoor units: 0.0

Indoor unit not yet connected

- Indr1 Cassette
- Indr2 Cassette
- Indr3 Cassette
- Indr4 Cassette
- Indr5 Cassette
- Indr6 Cassette
- Indr7 Cassette
- Indr8 Cassette
- Indr9 Cassette
- Indr10 Cassette
- Indr11 Cassette
- Indr12 Cassette
- Indr13 Cassette
- Indr14 Cassette
- Indr15 Cassette

Otdr1 AJY270GALH 98.8%

- Indr1 AUXD18GALH
- Indr2 AUXD18GALH
- Indr3 AUXD18GALH
- Indr4 AUXD18GALH
- Indr5 AUXD18GALH
- Indr6 AUXD18GALH
- Indr7 AUXD18GALH
- Indr8 AUXD18GALH
- Indr9 AUXD18GALH
- Indr10 AUXD18GALH
- Indr11 AUXD18GALH
- Indr12 AUXD18GALH
- Indr13 AUXD18GALH
- Indr14 AUXD18GALH
- Indr15 AUXD18GALH

Partial Load operation

Cancel OK

## Spoljna jedinica (4/4)

Input new outdoor unit

Name: Oldr1

Comments:

Refrigerant: R410A

Model: VR-II Heat Recovery space saving combination

Type: ☐ Manual selection

Model: AJY270GALH

PS: 3N, 400V, 50Hz

Combination: 100%

Language: 100 %

Outdoor dry bulb temperature

Cooling: C 35 Heating: C 7

Actual capacity

Cooling: 84.0 kW Heating: 94.5 kW

Piping

Actual piping length: m 7.5

Position of outdoor unit relative to indoor unit

☐ Higher ☒ Same Floor ☐ Lower

Height difference between outdoor and indoor units

m 0.0

Partial Load operation

Cancel OK

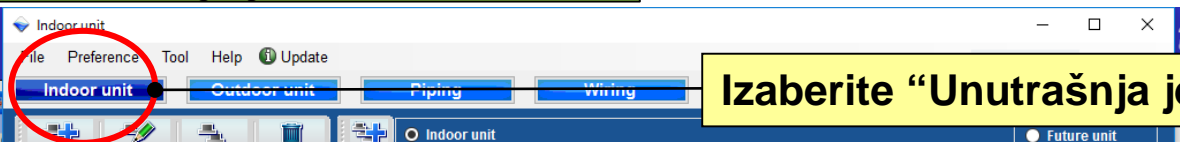
Izaberite "OK"

Prkaz ekrana sa osnovnim podacima o unutrašnjoj i spolnoj jedinici

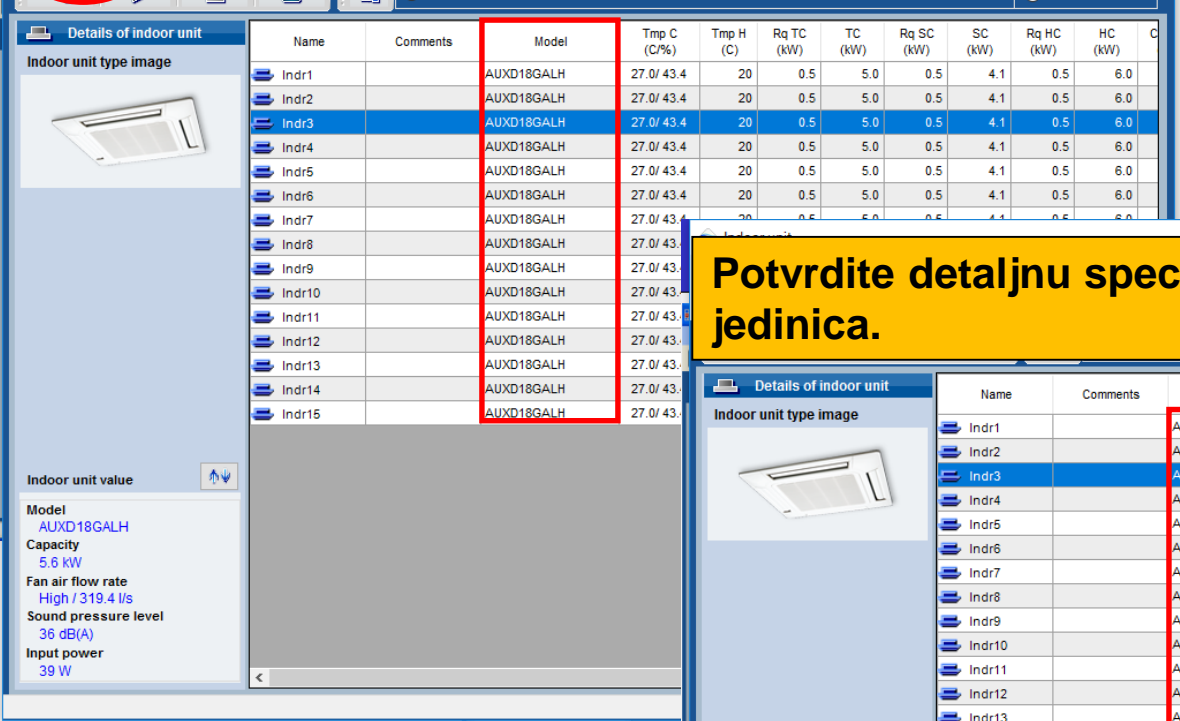
Model				
Type	VR-II Heat Recovery space saving combination			
Model				
AJY270GALH				
PS	3N, 400V, 50Hz			
Combination				
Actual	98.8%	Max.	100%	
Capacity	Cooling	85.0 kW	Heating	95.0 kW
Actual capacity	Cooling	84.0 kW	Heating	94.5 kW
Indoor connect count				
15				
Total indoor capa				
Cooling	84.0 kW	Heating	94.5 kW	
Outdoor temp.				
Cooling	35C	Heating	7C	
Piping				
Actual piping length				
7.5m				
Height difference between outdoor and indoor units				
0.0m				
Position of outdoor unit relative to indoor unit				
Same Floor				



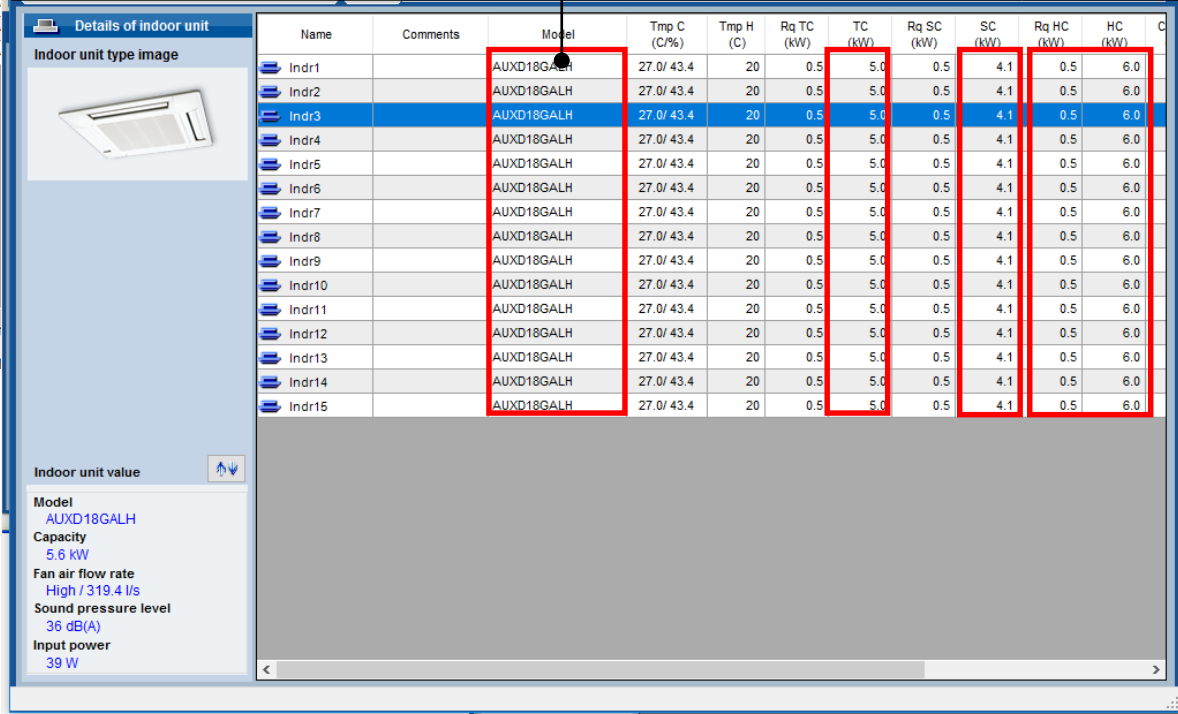
## Unutrašnja jedinica



Izaberite “Unutrašnja jedinica”



Potvrdite detaljnu specifikaciju na ekranu unutrašnjih jedinica.



## Lista kapaciteta spoljne jedinice (1/3)

Input new outdoor unit

Name: Otdr1  
Comments:   
Refrigerant: R410A  
Model: VR-II Heat Recovery space saving combination  
Type:   
Model: ☐ Manual selection  
AJYA90GALH  
PS: 3N, 400V, 50Hz  
Combination: 100% ☒ Full Load ☐ Partial Load  
Language No: 100 %

Outdoor dry bulb temperature  
Cooling: C 35 Heating: C 7  
Actual capacity  
Cooling: 28.0 kW Heating: 31.5 kW  
Piping  
Actual piping length: m 7.5  
Position of outdoor unit relative to indoor unit  
☐ Higher ☒ Same Floor ☐ Lower  
Height difference between outdoor and indoor units: m 0.0

Partial Load

Procenat povezivanja i kapacitet su izračunati, i najveća spoljna jedinica iz vrednosti kombinacije je odabrana prilikom povezivanja

Input new outdoor unit

Name: Otdr1  
Comments:   
Refrigerant: R410A  
Model: VR-II Heat Recovery space saving combination  
Type:   
Model: ☒ Manual selection  
AJYA90GALH  
PS: 3N, 400V, 50Hz  
Combination: 100% ☒ Full Load ☐ Partial Load  
Language No: 100 %

Outdoor dry bulb temperature  
Cooling: C   
Actual capacity  
Cooling: 28.0 kW  
Piping  
Actual piping length:   
Position of outdoor unit relative to indoor unit  
☐ Higher ☒ Same Floor ☐ Lower  
Height difference between outdoor and indoor units:   
Partial Load

Outdoor capacity list

Combination (%)	HP	Capacity (kW)	Model name	Outdoor unit	Outdoor unit	Outdoor unit
100.0	10	28.0	AJYA90GALH	AJYA90GALH		
83.6	12	33.5	AJY108GALH	AJY108GALH		
70.0	14	40.0	AJY126GALH	AJY126GALH		

Upper bound: 100%  
Lower bound: 70%  
Calculate  
Cancel OK

### Lista kapaciteta spoljne jedinice (2/3)

Modify outdoor unit

+ Input new outdoor unit

Name

Comments

Refrigerant **R410A**

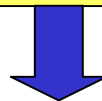
Model

Type VR-II Heat Recovery space saving combination

Model ☒ Manual selection

PS **3N, 400V, 50Hz**

Izaberite “Lista kapaciteta spoljne jedinice”



Otvorite “Lista kapaciteta spoljne jedinice”

Outdoor capacity list

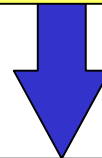
Combination (%)	HP	Capacity (kW)	Model name	Outdoor unit	Outdoor unit	Outdoor unit
62.9	10	28.0	AJHA90GALH	AJHA90GALH		
52.5	12	33.5	AJH108GALH	AJH108GALH		

Upper bound

Lower bound

Izaberite “granicu”

Izaberite “izračunaj”



Spoljne jedinice koje odgovaraju rasponu su prikazane na listi

### Lista kapaciteta spoljne jedinice (3/3)

Outdoor capacity list

Combination (%)	HP	Capacity (kW)	Model name	Outdoor unit	Outdoor unit	Outdoor unit
62.9	10	28.0	AJHA90GALH	AJHA90GALH		
52.5	12	33.5	AJH108GALH	AJH108GALH		

Modify outdoor unit

Name: Otdr1  
Comments:   
Refrigerant: R410A  
Model: VR-II Heat Recovery space saving combination  
Type: VR-II Heat Recovery space saving combination  
Model: ☒ Manual selection  
AJHA90GALH  
PS: 3N, 400V, 50Hz  
Combination: 70%  
Language No: 70 %  
Full Load  
Partial Load  
Outdoor dry bulb temperature  
Cooling: C 35.0 Heating: C 7.0  
Actual capacity  
Cooling: 17.6 kW Heating: 20.8 kW  
Piping  
Actual piping length: m 7.5  
Position of outdoor unit relative to indoor unit  
Higher ☐ Same Floor ☒ Lower ☐  
Height difference between outdoor and indoor units: m 0.0

Izaberite "Optimalni model spoljne jedinice"

OK



### Funkcija delimičnog opterećenja (1/6)

Kada se koristi delimično opterećenje kapacitet spoljne jedinice se može smanjiti podešavanjem brzine rada unutrašnje jedinice

① Kada izabrana unutrašnja jedinica radi 100%  
→ Koristite maksimalno opterećenje.

② Odaberite kada su svi izabrani modeli uzimajući u obzir i unutrašnje jedinice van funkcije. Procenat rada može se podesiti za hlađenje i grejanje  
→ Koristite delimično opterećenje.

③ Modeli su odabrani na osnovu pretpostavke da postoje unutrašnje jedinice sa delimičnim radom i sa 100 % radom za svaku prostoriju  
→ Koristite funkciju delimičnog opterećenja.

### Funkcija delimičnog opterećenja (2/6)

Input new outdoor unit

Name: Otdr1  
Comments:  
Refrigerant: R410A  
Model:  
Type: VR-II Heat Recovery space saving combination  
Model: ☒ Manual selection  
AJHA72GALH  
PS: 3N, 400V, 50Hz  
Combination: 100%  
Language No: 100 %  
Outdoor dry bulb temperature:  
Cooling: C 35.0 Heating: C 7  
Actual capacity:  
Cooling: 16.5 kW Heating: 19.5 kW  
Piping:  
Actual piping length: m 7.5  
Position of outdoor unit relative to indoor unit:  
☐ Higher ☒ Same Floor ☐ Lower  
Height difference between outdoor and indoor units: m 0

Indoor unit not yet connected  
Indr16 Compact cassette

Otdr1 AJHA72GALH 73.7%  
Indr1 AUXB04GALH  
Indr2 AUXB04GALH  
Indr3 AUXB04GALH  
Indr4 AUXB04GALH  
Indr5 AUXB04GALH  
Indr6 AUXB04GALH  
Indr7 AUXB04GALH  
Indr8 AUXB04GALH  
Indr12 AUXB04GALH

☐ Full Load  
☒ Partial Load  
Operating ratio C: 20%  
Operating ratio H: 20%

Partial Load operation

Cancel OK

Izaberite maksimalno opterećenje

Izaberite delimično opterećenje  
\*\*“Vrednost “ Delimičnog opterećenja” može biti izabrana i iz “Preference”

Izaberite Funkcija delimičnog opterećenja

## Funkcija delimičnog opterećenja (3/6)

Name: Otdr1  
Comments:  
Refrigerant: R410A  
Model Type: VR-II Heat Recovery space saving combination  
Model: ☒ Manual selection  
PS: 3N, 400V, 50Hz  
Combination: 100% ☒ Full Load ☒ Partial Load  
Language No: 100 %  
Operating ratio C: 20%  
Operating ratio H: 20%  
Outdoor dry bulb temperature: Cooling C 35.0 Heating C 7  
Actual capacity: Cooling 16.5 kW Heating 19.5 kW  
Piping: Actual piping length m 7.5  
Position of outdoor unit relative to indoor unit: ☐ Higher ☒ Same Floor ☐ Lower  
Height difference between outdoor and indoor units m 0

Partial Load operation

Izaberite “Funkcija delimičnog opterećenja”



Otvorite “Funkcija delimičnog opterećenja”

Partial Load operation

Full Load operation Partial Load operation

Outdoor Model  
Combination  
Rated Capacity  
Cooling  
Heating  
Actual Capacity(outdoor)  
Cooling  
Heating

Combination: 150%

Partial load ratio  
☒ Operating ratio designation  
Cooling 88 %  
Heating 88 %  
☐ Partial Indoor designation

Actual Capacity(indoor)  
Cooling  
Heating

Reset Check capacity  
Cancel OK

Procenat rada unutrašnje/spoljne jedinice se može promeniti

Može se promeniti odnos rada svih unutrašnjih jedinica

## Funkcija delimičnog opterećenja (4/6)

Izaberite “Proveriti kapacitet”



Prikazani se rezultati proračuna

Reset  
Check capacity  
Cancel  
OK

Prikazani se rezultati proračuna  
Levo: Maksimalno opterećenje  
Desno: Delimično opterećenje

	Full Load operation	Partial Load operation
Outdoor Model	AJY216LALBH	AJY198LALBH
Combination	132.4%	144.2%
Rated Capacity		
Cooling	68.0 kW	62.4 kW
Heating	76.5 kW	70.0 kW
Actual Capacity(outdoor)		
Cooling	69.9 kW	65.2 kW
Heating	60.6 kW	55.9 kW
Total indoor capa.		
Cooling	74.5 kW	74.5 kW
Heating	82.0 kW	82.0 kW
Actual Capacity(indoor)		
Cooling	74.5 kW	74.5 kW
Heating	60.5 kW	56 kW

Combination: 150%  
Partial load ratio: ☒ Operating ratio designation  
Cooling: 88%  
Heating: 88%  
☐ Partial Indoor designation

Reset Check capacity  
Cancel OK

### Funkcija delimičnog opterećenja (5/6)

Combination  
150%  
150 %

Partial load ratio  
☐ Operating ratio designation  
☒ Partial Indoor designation

Cooling 88 %  
Heating 88 %

Indoor Model	Check Cooling	Check Heating
ARXC60GATH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ARXC60GATH	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ARXC60GATH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ARXC60GATH	<input type="checkbox"/>	<input type="checkbox"/>
ARXC60GATH	<input type="checkbox"/>	<input type="checkbox"/>

Indoor Operating ratio  
Check with the indoor unit is operating rate of 100%. Please enter the operating rate of the check without the indoor unit.

80 % 80 %

Reset Check capacity  
Cancel OK

Izaberite kapacitet kombinacije

Izaberite kapacitet kombinacije

Procenat rada se ponovo izračunava i prikazuje sa sadržajem postavljenim u "Delimično određenje unutrašnje jedinice"

Odaberite sve

Izaberite "Delimično određenje unutrašnje jedinice"

Proverite da li je % rada unutrašnje jedinice 100%.

Unesite % rada za proveru bez unutrašnje jedinice

## Funkcija delimičnog opterećenja (6/6)

Partial Load operation

	Full Load operation	Partial Load operation
Outdoor Model	AJY216LALBH	AJY198LALBH
Combination	132.4%	144.2%
Rated Capacity		
Cooling	68.0 kW	62.4 kW
Heating	76.5 kW	70.0 kW
Actual Capacity(outdoor)		
Cooling	69.9 kW	65.2 kW
Heating	60.6 kW	55.9 kW
Total indoor capa.		
Cooling	74.5 kW	74.5 kW
Heating	82.0 kW	82.0 kW
Actual Capacity(indoor)		
Cooling	74.5 kW	74.5 kW
Heating	60.5 kW	56 kW

Combination: 150%  
150 %

Partial load ratio  
☐ Operating ratio designation  
☒ Partial Indoor designation

Cooling: 88 %  
Heating: 88 %

All All

Indoor Model	Check Cooling	Check Heating
ARXC60GATH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ARXC60GATH	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ARXC60GATH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ARXC60GATH	<input type="checkbox"/>	<input type="checkbox"/>
ARXC60GATH	<input type="checkbox"/>	<input type="checkbox"/>

Indoor Operating ratio  
Check with the indoor unit is operating rate of 100%. Please enter the operating rate of the check without the indoor unit.

80 % 80 %

Reset Check capacity Cancel OK

Prikazani se rezultati proračuna  
Levo: Maksimalno opterećenje  
Desno: Delimično opterećenje

### Smanjenje prečnika cevi

Input new outdoor unit

Name: Otdr1

Comments:

Refrigerant: R410A

Model Type: V-III Heat pump energy efficiency combination

Model: ☐ Manual selection

PS: ---

Combination: 100% ☒ Full Load ☐ Partial Load

Language No

Outdoor dry bulb temperature

Cooling: C 35 Heating: C 7

Actual capacity

Cooling: kW Heating: kW

Piping

Actual piping length: m 7.5

Position of outdoor unit relative to indoor unit

☐ Higher ☒ Same Floor ☐ Lower

Height difference between outdoor and indoor units: m 0.0

Downsizing of pipe diameter

☐ Apply

Partial Load operation

Indoor unit not yet connected

- Indr1 Compact cassette
- Indr2 Compact cassette
- Indr3 Compact cassette
- Indr4 Compact cassette
- Indr5 Compact cassette
- Indr6 Compact cassette
- Indr7 Compact cassette
- Indr8 Compact cassette
- Indr9 Compact cassette
- Indr10 Compact cassette
- Indr20 Compact cassette
- Indr21 Compact cassette

Cancel OK

\*2: Opis "Smanjenje prečnika cevi" opisan je na cevnoj mreži