

MHI

DRAFT

DATA BOOK

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR CONDITIONERS (Split system, air to air heat pump type)

(OUTDOOR UNIT)

SCM40ZJ-S

45ZJ-S

50ZJ-S

71ZJ-S

In this DATA BOOK, the outdoor units only is shown. Please see the '10 • SCM-DB-092D concerning the indoor units.

 **MITSUBISHI HEAVY INDUSTRIES, LTD.**



**Большая библиотека технической документации
<http://splitoff.ru/tehn-doc.html>
каталоги, инструкции, сервисные мануалы, схемы.**

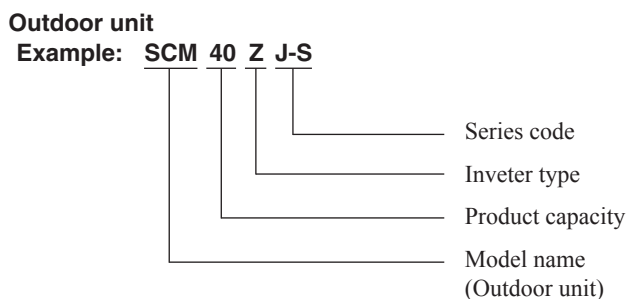
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■ Table of models

| Model \ Capacity | 20 | 25 | 35 | 50 | 60 |
|---|--------------------------------|----|----|----|----|
| Wall mounted type (SRK**ZJX-S) | ○ | ○ | ○ | ○ | ○ |
| Wall mounted type (SRK**ZJ-S) | ○ | ○ | ○ | ○ | |
| Floor standing type (SRF) | | ○ | ○ | ○ | |
| Ceiling concealed type (SRR) | | ○ | ○ | ○ | ○ |
| Ceiling cassette-4way compact type (FDTC) | | ○ | ○ | ○ | ○ |
| Outdoor unit to be combined (FDC) | SCM40ZJ-S,45ZJ-S,50ZJ-S,71ZJ-S | | | | |


■ How to read the model name



1. SPECIFICATIONS

Adapted to RoHS directive

| Item | | Model | SCM40ZJ-S | | | |
|---|---|------------------------|---|---|-----|--------------------|
| Cooling capacity (1) | | W | 4000 (1800 (Min.)~5900 (Max.)) | | | |
| Heating capacity (1) | | W | 4500 (1400 (Min.)~6900 (Max.)) | | | |
| Power supply | | | 1 Phase, 220~240 V, 50Hz | | | |
| Operation data (1) | Power consumption | Cooling | kW | 0.84 (0.49~1.90) | | |
| | | Heating | | 0.90 (0.47~2.30) | | |
| | Running current | Cooling | A | 3.9 / 3.7 / 3.5 (220/ 230/ 240 V) | | |
| | | Heating | | 4.1 / 4.0 / 3.8 (220/ 230/ 240 V) | | |
| | Inrush current | | | 4.1 / 4.0 / 3.8 (220/ 230/ 240 V) | | |
| | COP | Cooling | | 4.76 | | |
| | | Heating | | 5.00 | | |
| | Noise level | Cooling | Sound level | dB (A) | 47 | |
| Power level | | | dB | 60 | | |
| Heating | | Sound level | dB (A) | 48 | | |
| | | Power level | dB | 62 | | |
| Exterior dimensions (Height x Width x Depth) | | mm | 640 x 850 x 290 | | | |
| Exterior appearance (Munsell color) | | | Stucco white (4.2Y 7.5/1.1) near equivalent | | | |
| Net weight | | kg | 47 | | | |
| Refrigerant equipment | Compressor type & Q'ty | | | RM-T5113MDE2 (Twin rotary type) x 1 | | |
| | Motor (Starting method) | | kW | 1.4 (Line starting) | | |
| | Refrigerant oil | | ℓ | 0.45 (DIAMOND FREEZE MA68) | | |
| | Refrigerant (4) | | kg | R410A 2 (Pre-Charged up to the piping length of 30m) | | |
| | Heat exchanger | | | M fins & inner grooved tubing | | |
| | Refrigerant control | | | Capillary tubes + Electronic expansion valve | | |
| Device control | | | Microcomputer control | | | |
| Air handling equipment | Fan type & Q'ty | | | Propeller fan x 1 | | |
| | Motor | | W | 34 | | |
| | Air flow | Cooling | CMM | 40.0 | | |
| Heating | | 40.0 | | | | |
| Shock & vibration absorber | | | Cushion rubber (for compressor) | | | |
| Electric heater | | | Crank case heater (220V 20W) | | | |
| Safety devices | | | Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection | | | |
| Installation data | Refrigerant piping size (O.D) | | mm | Liquid line: ϕ 6.35 (1/4") x 2 Gas line: ϕ 9.52 (3/8") x 2 | | |
| | Connecting method | | | Flare connecting | | |
| | Insulation for piping | | | Necessary (Both sides), independent | | |
| | Length for one indoor unit | | m | Max. 25 | | |
| | Total length for all rooms | | | Max. 30 | | |
| | Vertical height difference between outdoor unit and indoor unit | | | Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is higher) | | |
| Height difference of the indoor units | | Max. 25 | | | | |
| Recommended breaker size | | A | 25 | | | |
| Connection wiring | Size x Core number | | 1.5mm ² x 4 cores (Including earth cable) | | | |
| | Connecting method | | Terminal block (Screw fixing type) | | | |
| Accessories (included) | | | Installation sheet, Elbow, Grommet | | | |
| Indoor unit to be combined | | | SRK20,25,35ZJX-S SRK20,25,35ZJ-S SRF25,35ZJX-S SRR25,35ZJ-S FDTC25,35VD | | | |
| Number of connectable indoor units | | | 2 | | | |
| Total of indoor units | | kW | Max. 6 | | | |
| Note (1) The data are measured at the following conditions. The pipe length for one indoor unit is 7.5m. | | | | | | |
| Operation | Cooling | Indoor air temperature | | Outdoor air temperature | | Standards |
| | | DB | WB | DB | WB | |
| | 27°C | 19°C | 35°C | 24°C | | |
| Heating | 20°C | | 7°C | | 6°C | ISO-T1, JIS C 9612 |
| (2) This air-conditioner is manufactured and tested in conformity with the ISO. | | | | | | |
| (3) The operation data are applied to the 220/230/240V districts respectively. | | | | | | |
| (4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping. (Purging is not required even for the short piping.) | | | | | | |

RWC000Z235 

Adapted to RoHS directive

| Item | | | Model | SCM45ZJ-S | |
|--|---|-------------|-------------|---|----|
| Cooling capacity (1) | | | W | 4500 (1800 (Min.)~6400 (Max.)) | |
| Heating capacity (1) | | | W | 5600 (1400 (Min.)~7400 (Max.)) | |
| Power supply | | | | 1 Phase, 220~240 V, 50Hz | |
| Operation data (1) | Power consumption | Cooling | kW | 1.04 (0.49~2.14) | |
| | | Heating | | 1.20 (0.47~2.57) | |
| | Running current | Cooling | A | 4.8 / 4.6 / 4.4 (220/ 230/ 240 V) | |
| | | Heating | | 5.5 / 5.3 / 5.1 (220/ 230/ 240 V) | |
| | Inrush current | | | 5.5 / 5.3 / 5.1 (220/ 230/ 240 V) | |
| | COP | | Cooling | 4.33 | |
| | | | Heating | 4.67 | |
| | Noise level | Cooling | Sound level | dB (A) | 47 |
| | | | Power level | | 60 |
| Heating | | Sound level | dB (A) | 49 | |
| | | Power level | | 62 | |
| Exterior dimensions (Height x Width x Depth) | | | mm | 640 x 850 x 290 | |
| Exterior appearance (Munsell color) | | | | Stucco white (4.2Y 7.5/1.1) near equivalent | |
| Net weight | | | kg | 47 | |
| Refrigerant equipment | Compressor type & Q'ty | | | RM-T5113MDE2 (Twin rotary type) x 1 | |
| | Motor (Starting method) | | kW | 1.4 (Line starting) | |
| | Refrigerant oil | | ℓ | 0.45 (DIAMOND FREEZE MA68) | |
| | Refrigerant (4) | | kg | R410A 2 (Pre-Charged up to the piping length of 30m) | |
| | Heat exchanger | | | M fins & inner grooved tubing | |
| | Refrigerant control | | | Capillary tubes + Electronic expansion valve | |
| | Device control | | | Microcomputer control | |
| Air handling equipment | Fan type & Q'ty | | | Propeller fan x 1 | |
| | Motor | | W | 34 | |
| | Air flow | Cooling | CMM | 40.0 | |
| Heating | | 40.0 | | | |
| Shock & vibration absorber | | | | Cushion rubber (for compressor) | |
| Electric heater | | | | Crank case heater (220V 20W) | |
| Safety devices | | | | Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection | |
| Installation data | Refrigerant piping size (O.D) | | mm | Liquid line: $\phi 6.35 (1/4") \times 2$ | |
| | | | | Gas line: $\phi 9.52 (3/8") \times 2$ | |
| | Connecting method | | | Flare connecting | |
| | Insulation for piping | | | Necessary (Both sides), independent | |
| | Length for one indoor unit | | m | Max. 25 | |
| | Total length for all rooms | | | Max. 30 | |
| | Vertical height difference between outdoor unit and indoor unit | | | Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower) | |
| Height difference of the indoor units | | Max. 25 | | | |
| Recommended breaker size | | | A | 25 | |
| Connection wiring | Size x Core number | | | 1.5mm ² x 4 cores (Including earth cable) | |
| | Connecting method | | | Terminal block (Screw fixing type) | |
| Accessories (included) | | | | Installation sheet, Elbow, Grommet | |
| Indoor unit to be combined | | | | SRK20,25,35ZJX-S SRK20,25,35ZJ-S SRF25,35ZJX-S SRR25,35ZJ-S FDTC25,35VD | |
| Number of connectable indoor units | | | | 2 | |
| Total of indoor units | | | kW | Max. 7 | |

Note (1) The data are measured at the following conditions.

The pipe length for one indoor unit is 7.5m.


| Item | Indoor air temperature | | Outdoor air temperature | | Standards |
|---------|------------------------|------|-------------------------|------|--------------------|
| | DB | WB | DB | WB | |
| Cooling | 27°C | 19°C | 35°C | 24°C | ISO-T1, JIS C 9612 |
| Heating | 20°C | — | 7°C | 6°C | |

(2) This air-conditioner is manufactured and tested in conformity with the ISO.

(3) The operation data are applied to the 220/230/240V districts respectively.


(4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping.

(Purging is not required even for the short piping.)

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Adapted to RoHS directive

| Item | | | Model | SCM50ZJ-S | | |
|---|---|------------------------|--|---|------|-----------|
| Cooling capacity (1) | | | W | 5000 (1800 (Min.)~7100 (Max.)) | | |
| Heating capacity (1) | | | W | 6000 (1400 (Min.)~7500 (Max.)) | | |
| Power supply | | | | 1 Phase, 220~240 V, 50Hz | | |
| Operation data (1) | Power consumption | Cooling | kW | 1.08 (0.50~2.15) | | |
| | | Heating | | 1.31 (0.48~2.58) | | |
| | Running current | Cooling | A | 5.0 / 4.7 / 4.5 (220/ 230/ 240 V) | | |
| | | Heating | | 6.0 / 5.8 / 5.5 (220/ 230/ 240 V) | | |
| | Inrush current | | | 6.0 / 5.8 / 5.5 (220/ 230/ 240 V) | | |
| | COP | | Cooling | 4.63 | | |
| | | | Heating | 4.58 | | |
| | Noise level | Cooling | Sound level | dB (A) | 49 | |
| | | | Power level | | 62 | |
| Heating | | Sound level | dB (A) | 52 | | |
| | | Power level | | 65 | | |
| Exterior dimensions (Height x Width x Depth) | | | mm | 640 x 850 x 290 | | |
| Exterior appearance (Munsell color) | | | | Stucco white (4.2Y 7.5/1.1) near equivalent | | |
| Net weight | | | kg | 48 | | |
| Refrigerant equipment | Compressor type & Q'ty | | | RM-T5113MDE2 (Twin rotary type) x 1 | | |
| | Motor (Starting method) | | kW | 1.4 (Line starting) | | |
| | Refrigerant oil | | ℓ | 0.45 (DIAMOND FREEZE MA68) | | |
| | Refrigerant (4) | | kg | R410A 2.5 (Pre-Charged up to the piping length of 40m) | | |
| | Heat exchanger | | | M fins & inner grooved tubing | | |
| | Refrigerant control | | | Capillary tubes + Electronic expansion valve | | |
| | Device control | | | Microcomputer control | | |
| Air handling equipment | Fan type & Q'ty | | | Propeller fan x 1 | | |
| | Motor | | W | 34 | | |
| | Air flow | Cooling | CMM | 41.0 | | |
| Heating | | 41.0 | | | | |
| Shock & vibration absorber | | | | Cushion rubber (for compressor) | | |
| Electric heater | | | | Crank case heater (220V 20W) | | |
| Safety devices | | | | Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection | | |
| Installation data | Refrigerant piping size (O.D) | | mm | Liquid line: $\phi 6.35 (1/4") \times 3$ | | |
| | | | | Gas line: $\phi 9.52 (3/8") \times 3$ | | |
| | Connecting method | | | Flare connecting | | |
| | Insulation for piping | | | Necessary (Both sides), independent | | |
| | Length for one indoor unit | | m | Max. 25 | | |
| | Total length for all rooms | | | Max. 40 | | |
| | Vertical height difference between outdoor unit and indoor unit | | | Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower) | | |
| Height difference of the indoor units | | Max. 25 | | | | |
| Recommended breaker size | | | A | 25 | | |
| Connection wiring | Size x Core number | | | 1.5mm ² x 4 cores (Including earth cable) | | |
| | Connecting method | | | Terminal block (Screw fixing type) | | |
| Accessories (included) | | | | Union : ($\phi 9.52 \rightarrow \phi 12.7$) x 1, Installation sheet, Elbow, Grommet | | |
| Indoor unit to be combined | | | | SRK20,25,35,50ZJX-S SRK20,25,35,50ZJ-S SRF25,35,50ZJX-S SRR25,35,50ZJ-S FDTC25,35,50VD | | |
| Number of connectable indoor units | | | | Min. 2~Max. 3 | | |
| Total of indoor units | | | kW | Max. 8.5 | | |
| Note (1) The data are measured at the following conditions. | | | The pipe length for one indoor unit is 7.5m. | | | |
| Operation | Item | Indoor air temperature | | Outdoor air temperature | | Standards |
| | | DB | WB | DB | WB | |
| | Cooling | 27°C | 19°C | 35°C | 24°C | |
| Heating | 20°C | — | 7°C | 6°C | | |
| (2) This air-conditioner is manufactured and tested in conformity with the ISO. | | | | | | |
| (3) The operation data are applied to the 220/230/240V districts respectively. | | | | | | |
| (4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping. (Purging is not required even for the short piping.) | | | | | | |

RWC000Z235 

Adapted to RoHS directive

| Item | | | Model | SCM71ZJ-S | | |
|---|-------------------------------|---|-------------|---|------|-----------|
| Cooling capacity (1) | | | W | 7100 (1800 (Min.)—8800 (Max.)) | | |
| Heating capacity (1) | | | W | 8600 (1500 (Min.)—9400 (Max.)) | | |
| Power supply | | | | 1 Phase, 220~240 V, 50Hz | | |
| Operation data (1) | Power consumption | Cooling | kW | 1.74 (0.48~2.75) | | |
| | | Heating | | 2.00 (0.60~3.35) | | |
| | Running current | Cooling | A | 8.0 / 7.6 / 7.3 (220/ 230/ 240 V) | | |
| | | Heating | | 9.2 / 8.8 / 8.4 (220/ 230/ 240 V) | | |
| | Inrush current | | | 9.2 / 8.8 / 8.4 (220/ 230/ 240 V) | | |
| | COP | | Cooling | 4.08 | | |
| | | | Heating | 4.30 | | |
| | Noise level | Cooling | Sound level | dB (A) | 52 | |
| | | | Power level | | 65 | |
| Heating | | Sound level | dB (A) | 54 | | |
| | | Power level | | 66 | | |
| Exterior dimensions (Height x Width x Depth) | | | mm | 750 x 880 x 340 | | |
| Exterior appearance (Munsell color) | | | | Stucco white (4.2Y 7.5/1.1) near equivalent | | |
| Net weight | | | kg | 62 | | |
| Refrigerant equipment | Compressor type & Q'ty | | | RM-T5118MDE2 (Twin rotary type) x 1 | | |
| | Motor (Starting method) | | kW | 1.4 (Line starting) | | |
| | Refrigerant oil | | ℓ | 0.675 (DIAMOND FREEZE MA68) | | |
| | Refrigerant (4) | | kg | R410A 3.15 (Pre-Charged up to the piping length of 40m) | | |
| | Heat exchanger | | | M fins & inner grooved tubing | | |
| | Refrigerant control | | | Capillary tubes + Electronic expansion valve | | |
| | Device control | | | Microcomputer control | | |
| Air handling equipment | Fan type & Q'ty | | | Propeller fan x 1 | | |
| | Motor | | W | 86 | | |
| | Air flow | Cooling | CMM | 56.0 | | |
| Heating | | 56.0 | | | | |
| Shock & vibration absorber | | | | Cushion rubber (for compressor) | | |
| Electric heater | | | | Crank case heater (220V 20W) | | |
| Safety devices | | | | Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection | | |
| Installation data | Refrigerant piping size (O.D) | | mm | Liquid line: ϕ 6.35 (1/4") x 4 | | |
| | | | | Gas line: ϕ 9.52 (3/8") x 4 | | |
| | Connecting method | | | Flare connecting | | |
| | Insulation for piping | | | Necessary (Both sides), independent | | |
| | Length for one indoor unit | | m | Max. 25 | | |
| | Total length for all rooms | | | Max. 70 | | |
| Vertical height difference between outdoor unit and indoor unit | | Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower) | | | | |
| Height difference of the indoor units | | Max. 25 | | | | |
| Recommended breaker size | | | A | 25 | | |
| Connection wiring | Size x Core number | | | 1.5mm ² x 4 cores (Including earth cable) | | |
| | Connecting method | | | Terminal block (Screw fixing type) | | |
| Accessories (included) | | | | Union : (ϕ 9.52 → ϕ 12.7) x 2, Installation sheet, Elbow, Grommet x 2 | | |
| Indoor unit to be combined | | | | SRK20,25,35,50,60ZJX-S SRK20,25,35,50ZJ-S SRF25,35,50ZJX-S SRR25,35,50,60ZJ-S FDTC25,35,50,60VD | | |
| Number of connectable indoor units | | | | Min. 2~Max. 4 | | |
| Total of indoor units | | | kW | Max. 12.5 | | |
| Note (1) The data are measured at the following conditions. The pipe length for one indoor unit is 7.5m. | | | | | | |
| Operation | Item | Indoor air temperature | | Outdoor air temperature | | Standards |
| | | DB | WB | DB | WB | |
| | Cooling | 27°C | 19°C | 35°C | 24°C | |
| Heating | 20°C | — | 7°C | 6°C | | |
| (2) This air-conditioner is manufactured and tested in conformity with the ISO. | | | | | | |
| (3) The operation data are applied to the 220/230/240V districts respectively. | | | | | | |
| (4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping. (Purging is not required even for the short piping.) | | | | | | |

RWC000Z235 

2. EXTERIOR DIMENSIONS

Models SCM40ZJ-S, 45ZJ-S

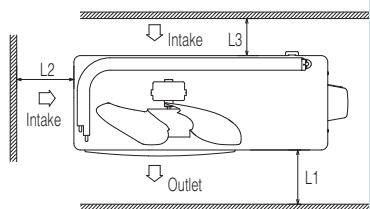
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Все каталоги и инструкции здесь: <http://splitoff.ru/ehh-doc.html>

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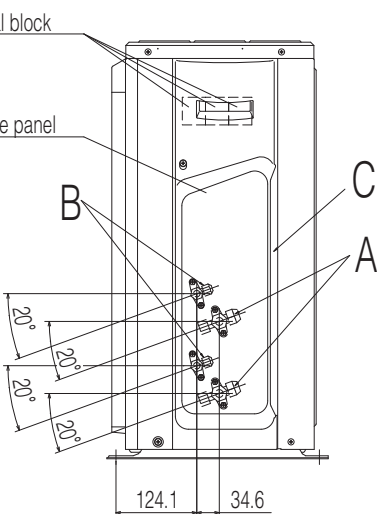
Note

- (1) It must not be surrounded by walls on four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1.2m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the service panel.

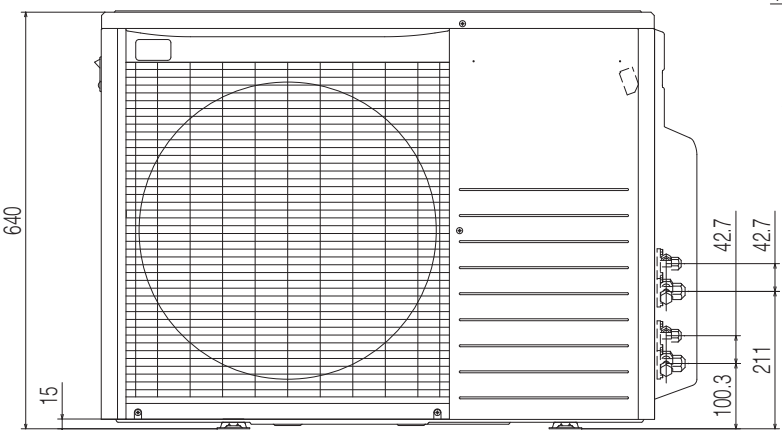
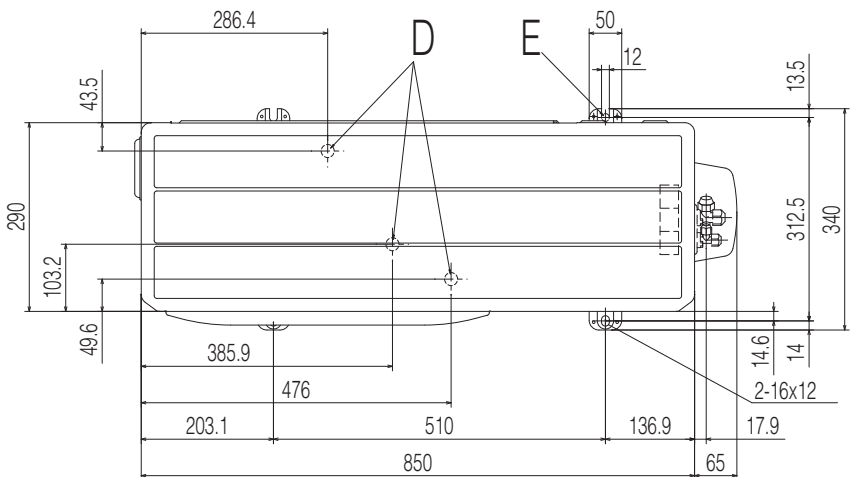


Minimum installation space

| Examples of Installation | |
|--------------------------|-----|
| Dimensions | |
| L1 | 600 |
| L2 | 100 |
| L3 | 100 |



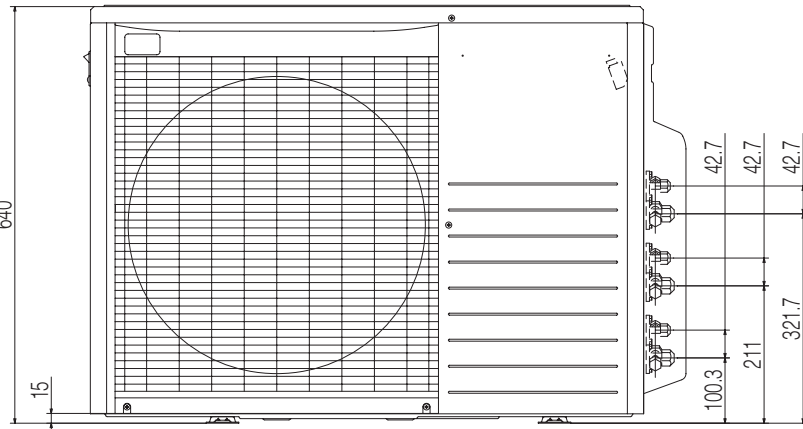
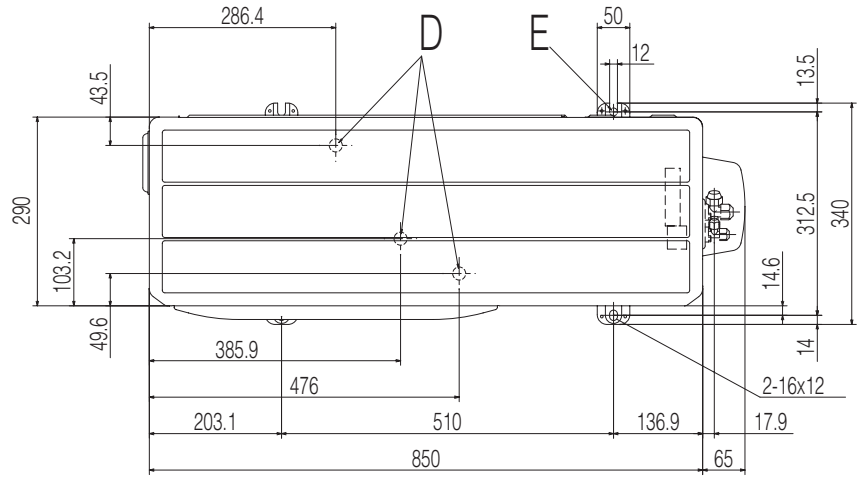
| Symbol | Content | |
|--------|--|----------------------------|
| A | Service valve connection (gas side) | $\phi 9.52$ (3/8") (Flare) |
| B | Service valve connection (liquid side) | $\phi 6.35$ (1/4") (Flare) |
| C | Pipe/cable draw-out hole | |
| D | Drain discharge hole | $\phi 20 \times 3$ places |
| E | Anchor bolt hole | M10 x 4 places |



RWC000Z231

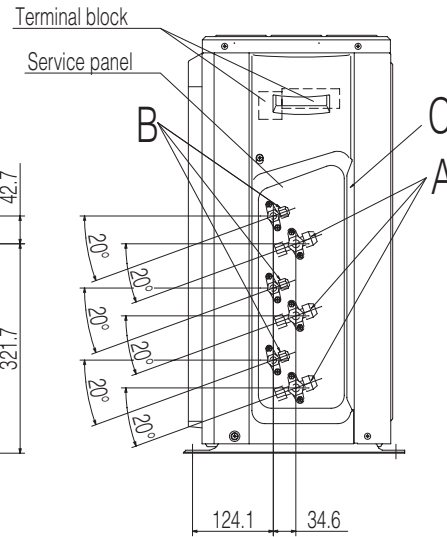
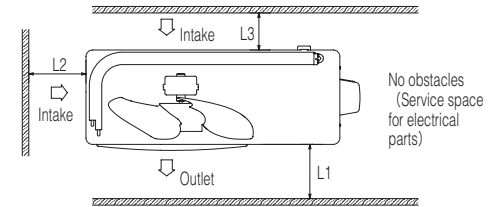
RWSC000Z233

| Symbol | Content | |
|--------|--|----------------------|
| A | Service valve connection (gas side) | φ9.52 (3/8") (Flare) |
| B | Service valve connection (liquid side) | φ6.35 (1/4") (Flare) |
| C | Pipe/cable draw-out hole | |
| D | Drain discharge hole | φ20 x 3 places |
| E | Anchor bolt hole | M10 x 4 places |



Note

- (1) It must not be surrounded by walls on four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1.2m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the service panel.



Minimum installation space

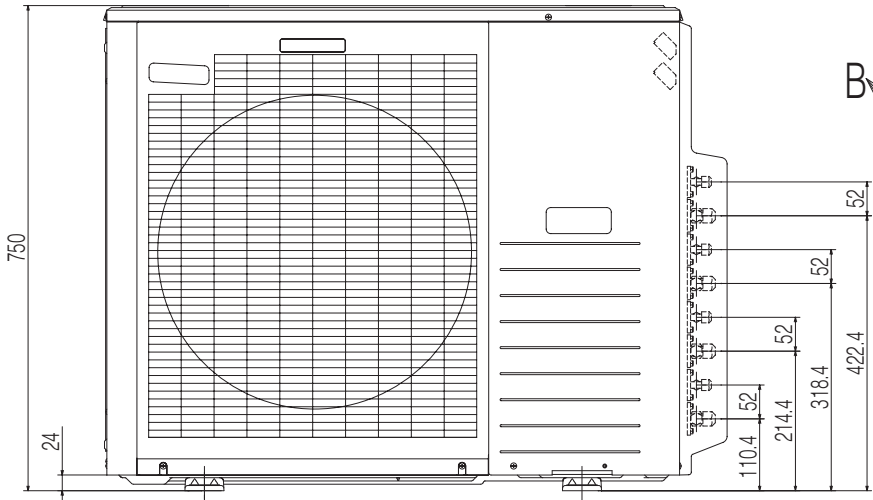
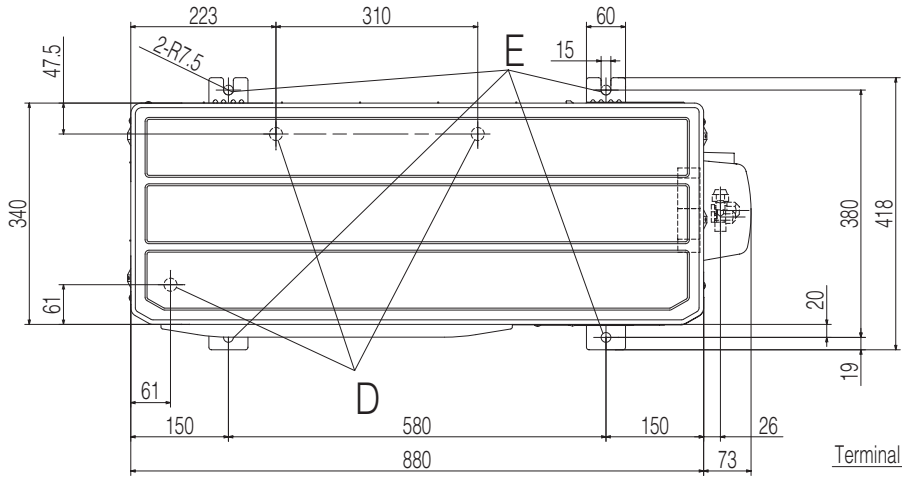
| Dimensions | Examples of Installation |
|------------|--------------------------|
| L1 | 600 |
| L2 | 100 |
| L3 | 100 |

Unit:mm

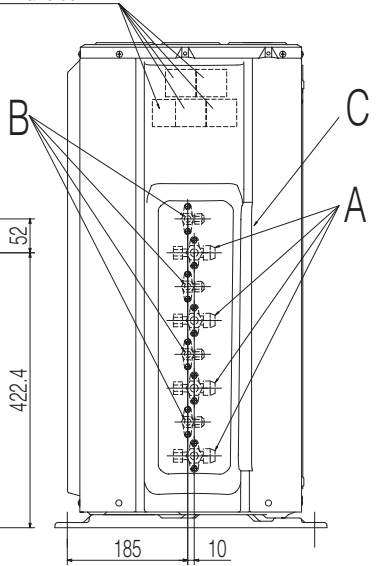
Model SCM50ZJ-S

RWC000Z229

| Symbol | Content | |
|--------|--|----------------------|
| A | Service valve connection (gas side) | φ9.52 (3/8") (Flare) |
| B | Service valve connection (liquid side) | φ6.35 (1/4") (Flare) |
| C | Pipe/cable draw-out hole | |
| D | Drain discharge hole | φ20 x 3 places |
| E | Anchor bolt hole | M10 x 4 places |

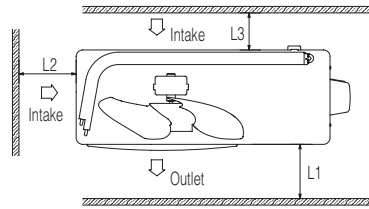


Terminal block



Notes

- (1) It must not be surrounded by walls on four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1.2m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the rear panel.



Minimum installation space

| Examples of Installation | |
|--------------------------|-----|
| Dimensions | |
| L1 | 600 |
| L2 | 100 |
| L3 | 100 |

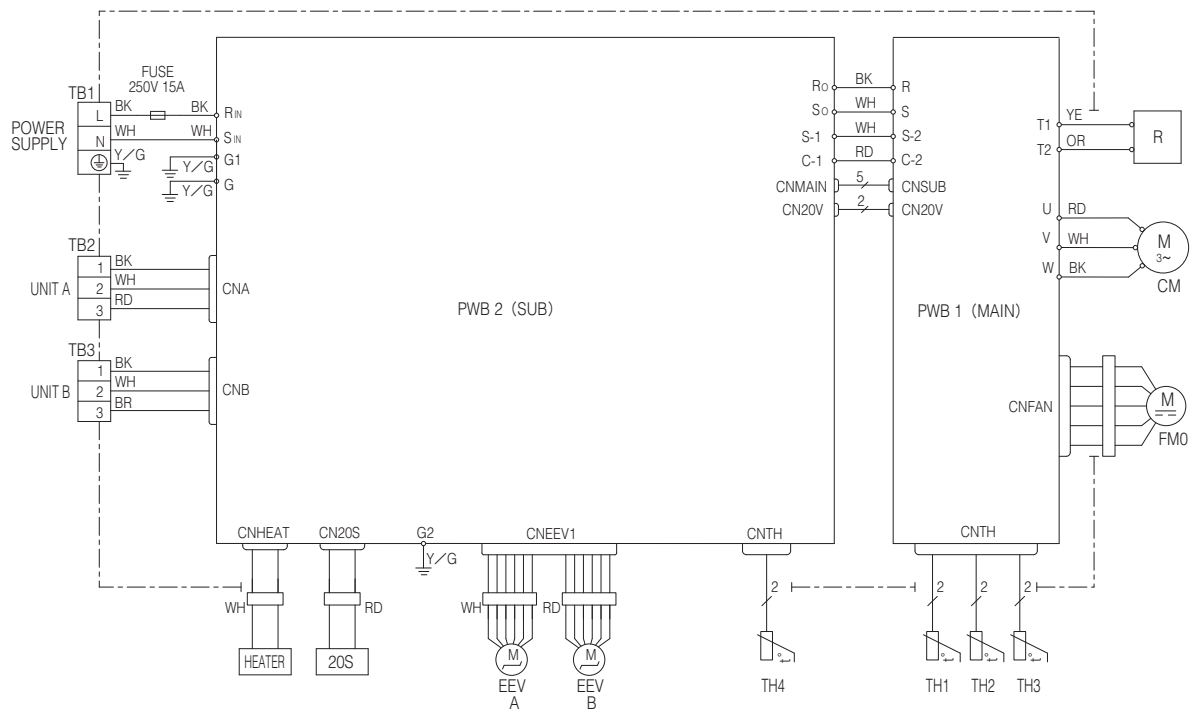
Все каталоги и инструкции здесь: <http://splitoff.ru/ehp-doc.html>

Model SCM71ZJ-S

3. ELECTRICAL WIRINGS

Models SCM40ZJ-S, 45ZJ-S

WIRING DIAGRAM



| Indication lamp | Color | Function |
|--|--|--------------|
| Led e (1) | Red | Warning lamp |
| Self diagnosis function by led e | | |
| 1 Time flash | Current cut | |
| 2 Time flash | Trouble of outdoor unit | |
| 3 Time flash | Over current | |
| 4 Time flash | Transmission error | |
| 5 Time flash | Over heat of compressor | |
| 6 Time flash | Error of signal transmission | |
| 7 Time flash | Lock of compressor | |
| 8 Time flash | Sensor error (Except discharge pipe sensor) | |
| Light on | Outdoor fan motor error | |
| Four sec light and four sec off | Discharge pipe sensor error | |
| Caution • When the compressor does not run immediately after hitting on the button, wait for 5 to 10 minutes. (There is possibility of delayed start.) • High voltage is produced in the control box. don't touch electrical parts in the control box for 5 minutes after cutting power supply. | | |

Color Marks

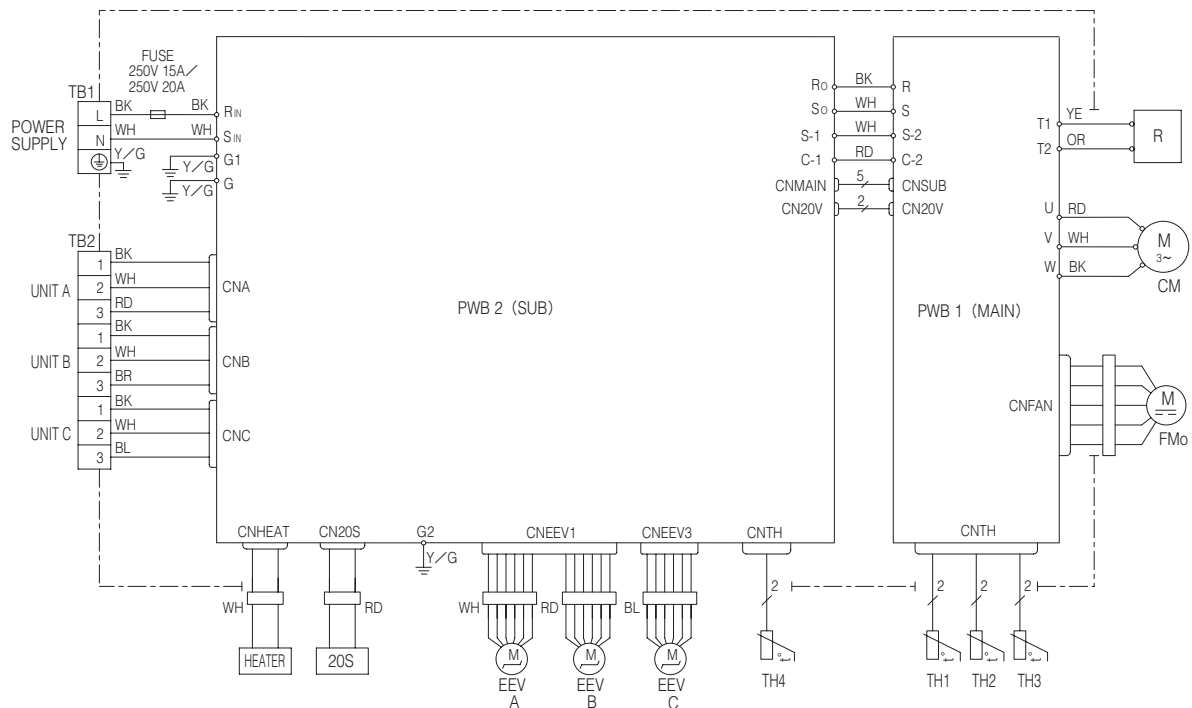
| Mark | Color | Mark | Color |
|------|--------|------|--------------|
| BK | Black | YE | Yellow |
| RD | Red | Y/G | Yellow/Green |
| WH | White | | |
| OR | Orange | | |
| BR | Brown | | |

Meaning of Marks

| Item | Description | Item | Description |
|--------------|------------------------------------|---------|---|
| CNA-CN20S | Connector | R | Reactor |
| 20S | 4 Way valve (coil) | TB1-TB3 | Terminal block |
| CM | Compressor motor | Th1 | Heat exchanger sensor (outdoor unit) |
| EEV A, EEV B | Electric expansion valve (coil) | Th2 | Outdoor air temp. sensor |
| FMO | Fan motor | Th3 | Discharge pipe temp. sensor |
| HEATER | Crank case heater | Th4 | Suction pipe temp. sensor |

RWC000Z232

WIRING DIAGRAM



| Indication lamp | Color | Function |
|--|--|--------------|
| Led e (1) | Red | Warning lamp |
| Self diagnosis function by led e | | |
| 1 Time flash | Current cut | |
| 2 Time flash | Trouble of outdoor unit | |
| 3 Time flash | Over current | |
| 4 Time flash | Transmission error | |
| 5 Time flash | Over heat of compressor | |
| 6 Time flash | Error of signal transmission | |
| 7 Time flash | Lock of compressor | |
| 8 Time flash | Sensor error (Except discharge pipe sensor) | |
| Light on | Outdoor fan motor error | |
| Four sec light and four sec off | Discharge pipe sensor error | |
| Caution • When the compressor does not run immediately after hitting on the button, wait for 5 to 10 minutes to avoid possibility of delayed start.) | | |
| • High voltage is produced in the control board. Do not touch electrical parts in the control box for 5 minutes after cutting power supply. | | |

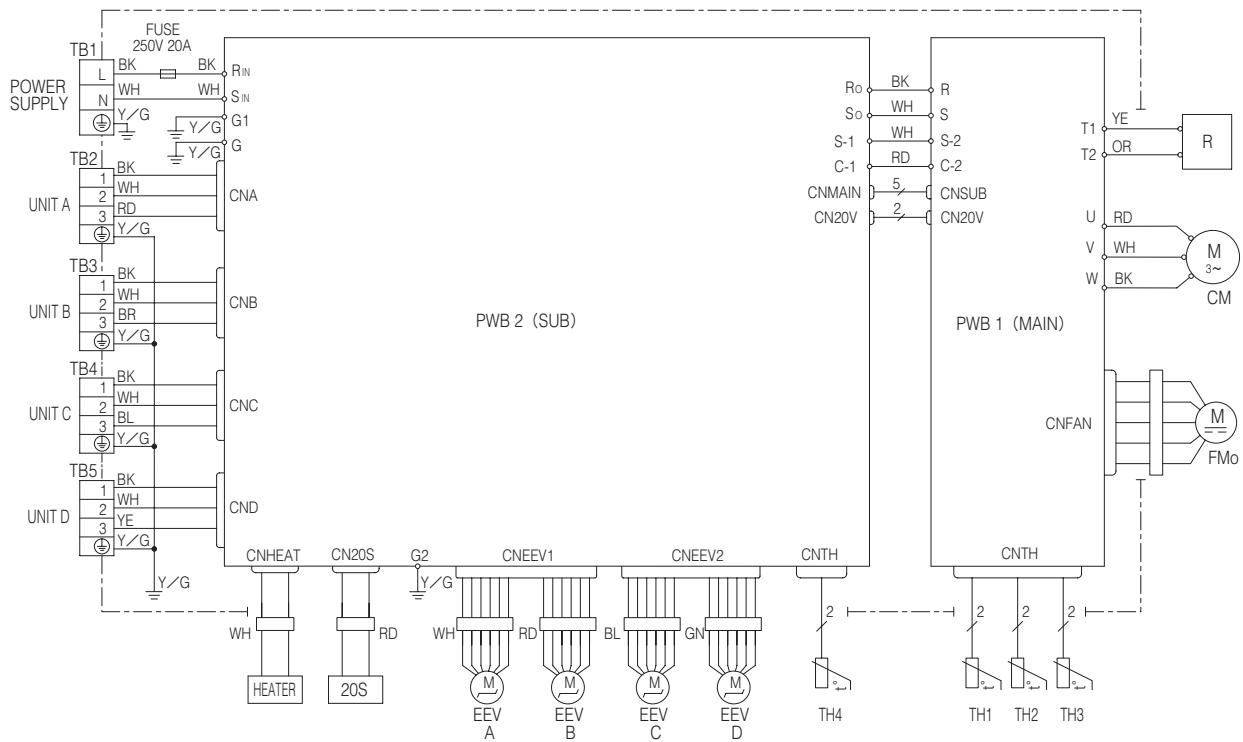
Всё каталоги и инструкции здесь: <http://splitoff.ru/ehd-doc.html>

Color Marks

| Mark | Color | Mark | Color |
|------|--------|------|--------------|
| BK | Black | BR | Brown |
| BL | Blue | YE | Yellow |
| RD | Red | Y/G | Yellow/Green |
| WH | White | | |
| OR | Orange | | |

Meaning of Marks

| Item | Description | Item | Description |
|--------------|---------------------------------|----------|--------------------------------------|
| CNA-CN20S | Connector | R | Reactor |
| 20S | 4 Way valve (coil) | TB1, TB2 | Terminal block |
| CM | Compressor motor | Th1 | Heat exchanger sensor (outdoor unit) |
| EEV A, EEV B | Electric expansion valve (coil) | Th2 | Outdoor air temp. sensor |
| EEV C | Electric expansion valve (coil) | Th3 | Discharge pipe temp. sensor |
| FMo | Fan motor | Th4 | Suction pipe temp. sensor |
| HEATER | Crank case heater | | |



| Indication lamp | Color | Function |
|--|-------|--|
| Led e (1) | Red | Warning lamp |
| Self diagnosis function by led e | | |
| 1 Time flash | | Current cut |
| 2 Time flash | | Trouble of outdoor unit |
| 3 Time flash | | Over current |
| 4 Time flash | | Transmission error |
| 5 Time flash | | Over heat of compressor |
| 6 Time flash | | Error of signal transmission |
| 7 Time flash | | Lock of compressor |
| 8 Time flash | | Sensor error (Except discharge pipe sensor) |
| Light on | | Outdoor fan motor error |
| Four sec light and four sec off | | Discharge pipe sensor error |
| Caution • When the compressor does not run immediately after hitting on the button, wait for 5 to 10 minutes. (There is possibility of delayed start.) • High voltage is produced in the control box. don't touch electrical parts in the control box for 5 minutes after cutting power supply. | | |

Color Marks

| Mark | Color | Mark | Color |
|------|--------|------|--------------|
| BK | Black | RD | Red |
| BL | Blue | WH | White |
| BR | Brown | YE | Yellow |
| GN | Green | Y/G | Yellow/Green |
| OR | Orange | | |

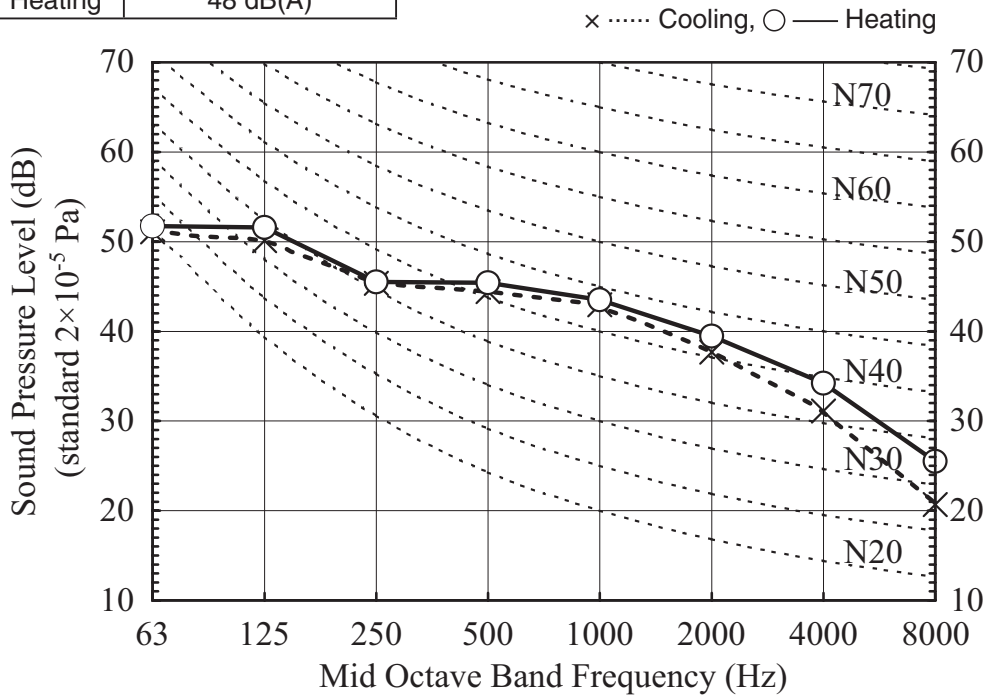
Meaning of Marks

| Item | Description | Item | Description |
|-------------|------------------------------------|-------|---|
| CNA-CN20S | Connector | R | Reactor |
| 20S | 4 Way valve (coil) | TB1~5 | Terminal block |
| CM | Compressor motor | Th1 | Heat exchanger sensor (outdoor unit) |
| EEV A,EEV B | Electric expansion valve (coil) | Th2 | Outdoor air temp. sensor |
| EEV C,EEV D | | Th3 | Discharge pipe temp. sensor |
| FMo | Fan motor | Th4 | Suction pipe temp. sensor |
| HEATER | Crank case heater | | |

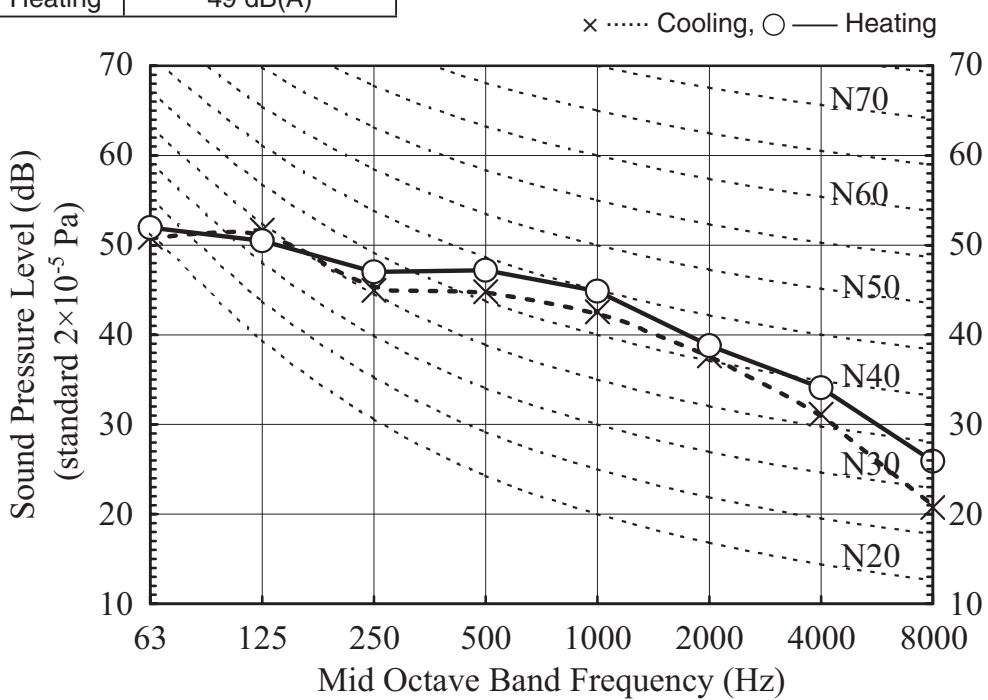
RWC000Z230

4. NOISE LEVELS

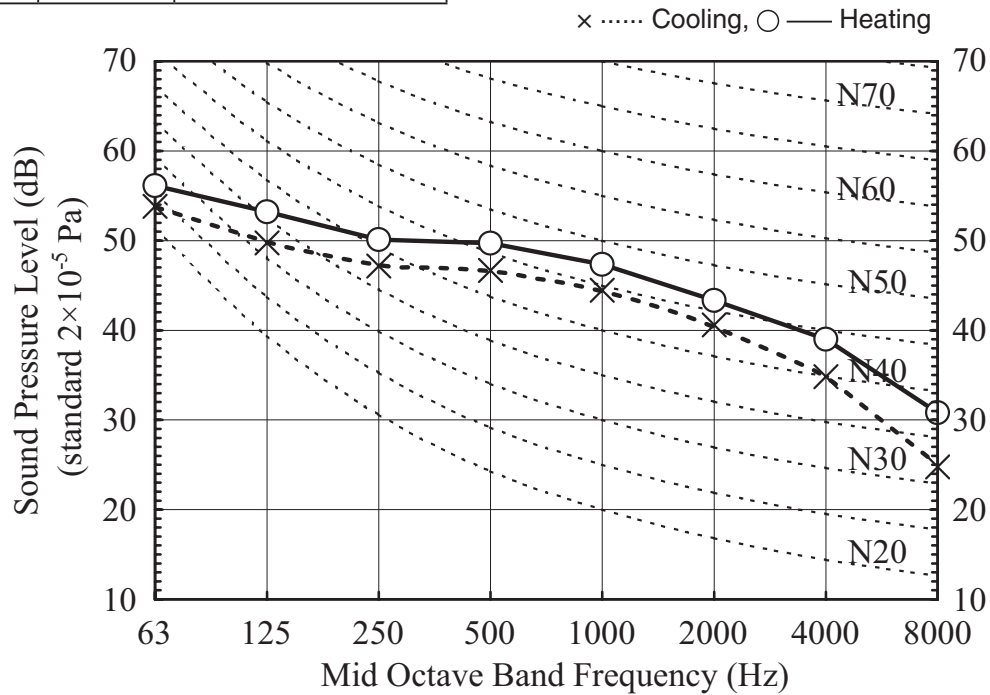
| | | |
|-------------|-----------|----------|
| Model | SCM40ZJ-S | |
| Noise Level | Cooling | 47 dB(A) |
| | Heating | 48 dB(A) |



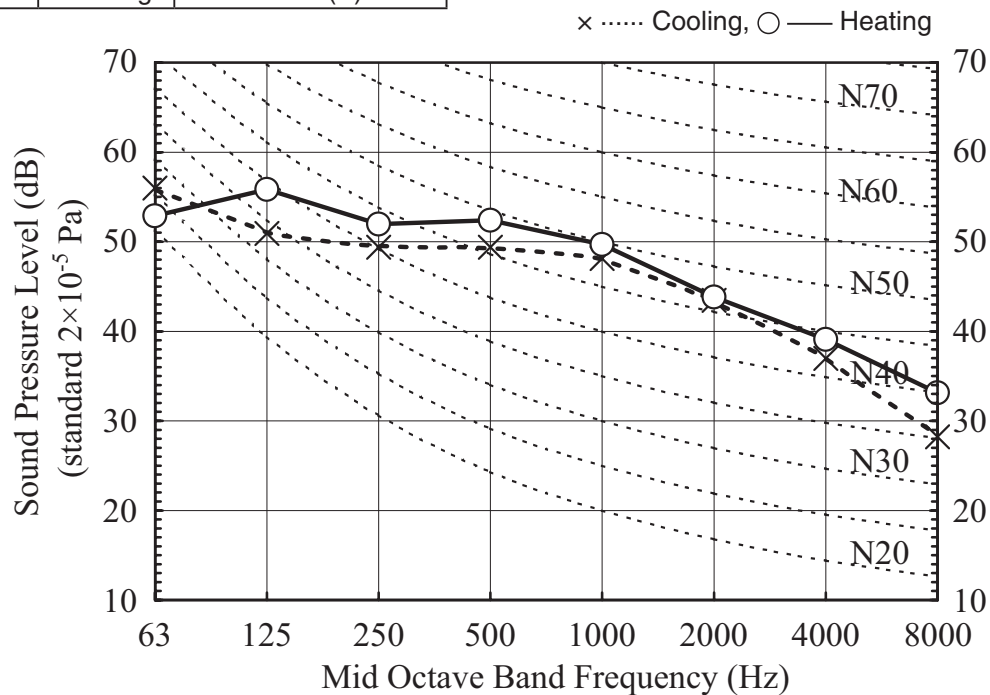
| | | |
|-------------|-----------|----------|
| Model | SCM45ZJ-S | |
| Noise Level | Cooling | 47 dB(A) |
| | Heating | 49 dB(A) |



| | | |
|-------------|-----------|----------|
| Model | SCM50ZJ-S | |
| Noise Level | Cooling | 49 dB(A) |
| | Heating | 52 dB(A) |



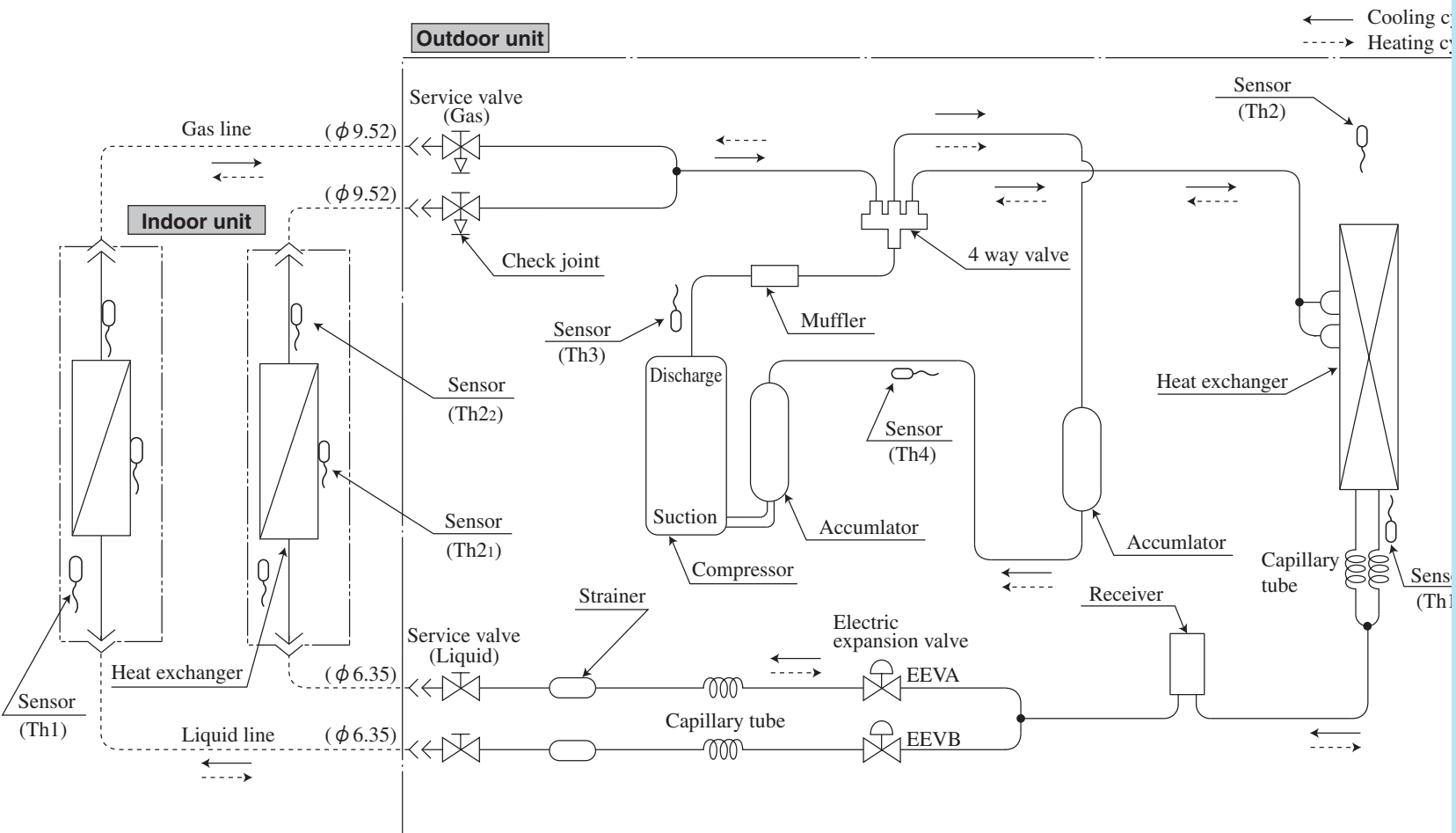
| | | |
|-------------|-----------|----------|
| Model | SCM71ZJ-S | |
| Noise Level | Cooling | 52 dB(A) |
| | Heating | 54 dB(A) |

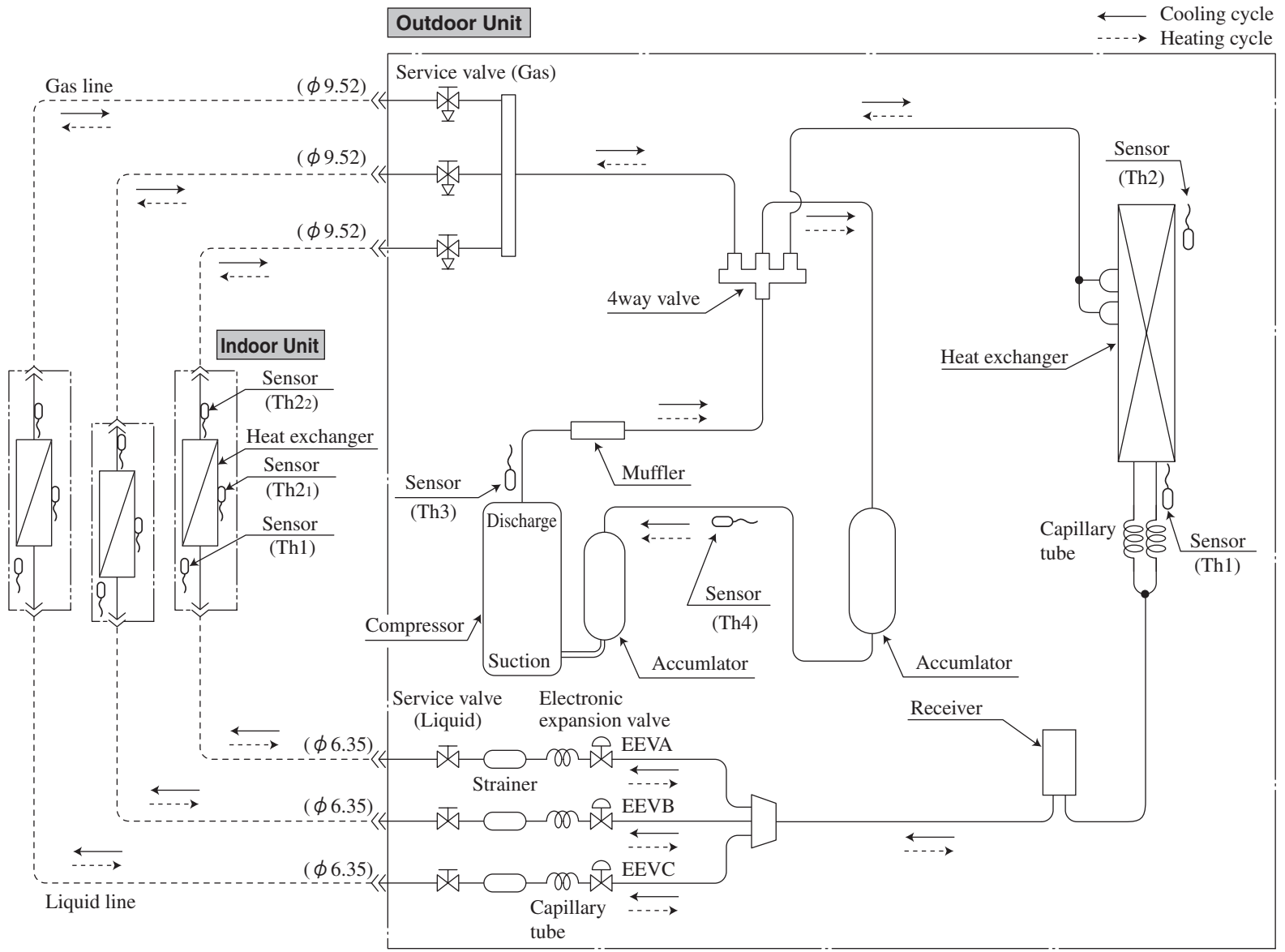


5. PIPING SYSTEMS

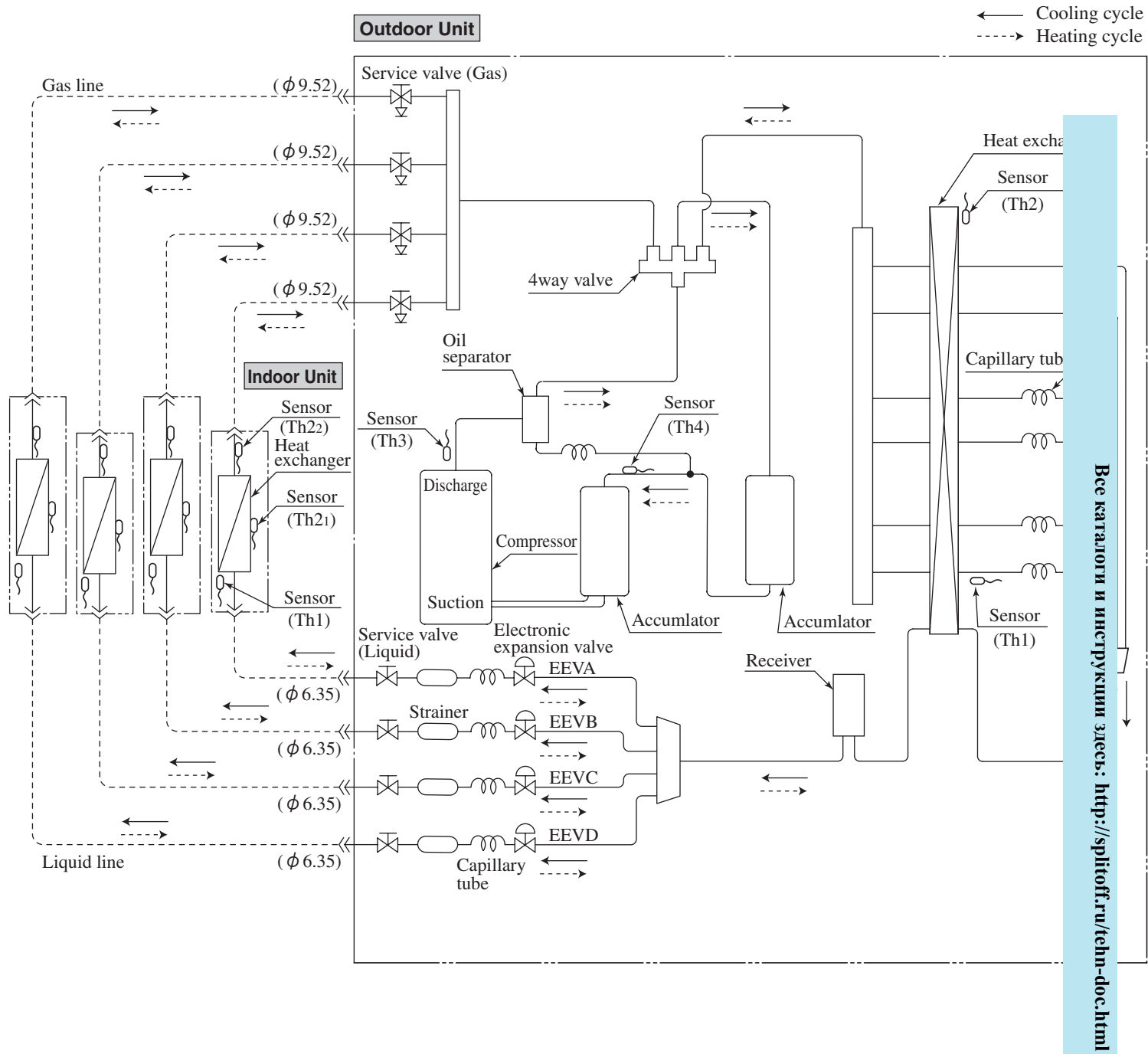
Models SCM40ZJ-S, 45ZJ-S

Все каталоги и инструкции здесь: <http://splitoff.ru/ehh-doc.html>





Model SCM50ZJ-S



6. APPLICATION DATAS

RPC012A915

(1) Models SCM40ZJ-S, 45ZJ-S

MULTI TYPE AIR CONDITIONER
R410A REFRIGERANT USED

• This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to the respective installation manuals supplied with the units.

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into **WARNING** and **CAUTION**. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the **WARNING** and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in **CAUTION**. These are very important precautions for safety. Be sure to observe all of them without fail.
- Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to

- the user according to the owner's manual.
- Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user.
- For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, gloves, etc., and then perform the installation works.
- Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
- If unusual noise can be heard during operation, consult the dealer.
- Symbols which appear frequently in the text have the following meaning:

| | | | | | |
|--|--------------------------------------|--|---------------------|--|-------------------------|
| | Observe instructions with great care | | Strictly prohibited | | Provide proper earthing |
|--|--------------------------------------|--|---------------------|--|-------------------------|

| WARNING | | |
|--|--|---|
| <p>Installation must be carried out by the qualified installer. If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system malfunction.</p> <p>Install the system in full accordance with the instruction manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire.</p> <p>Be sure to use only for household and residence. If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction.</p> <p>Use the original accessories and the specified components for installation. If parts other than those prescribed by us are used, it may cause water leaks, electric shocks, fire and personal injury.</p> <p>Install the unit in a location with good support. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.</p> <p>Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.</p> <p>Ventilate the working area well in the event of refrigerant leakage during installation. If the refrigerant comes into contact with naked flames, poisonous gas is produced.</p> <p>Use the prescribed pipes, flare nuts and tools for R410A. Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit.</p> | <p>Tighten the flare nut by torque wrench with specified method. If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period.</p> <p>Do not open the operation valves for liquid line and gas line until completed refrigerant piping work, air tightness test and evacuation. If the compressor is operated in state of opening operation valves before completed connection of refrigerant piping work, air can be sucked into refrigerant circuit, which can cause burst or personal injury due to anomalously high pressure in the refrigerant.</p> <p>The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit. Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire.</p> <p>Be sure to shut off the power before starting electrical work. Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment.</p> <p>Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. Unconformable cables can cause electric leak, anomalous heat production or fire.</p> <p>This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm.</p> | <p>Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire.</p> <p>Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly. Incorrect installation may result in overheating and fire.</p> <p>Be sure to fix up the service panels. Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water.</p> <p>Be sure to switch off the power supply in the event of installation, inspection or servicing. If the power supply is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan.</p> <p>Stop the compressor before disconnecting refrigerant pipes in case of pump down operation. If disconnecting refrigerant pipes in state of opening operation valves before compressor stopping, air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrigerant circuit</p> <p>Only use prescribed optional parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.</p> |
| <p>Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury.</p> <p>Do not processing, splice the power cord, or share a socket with other power plugs. This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc.</p> | <p>Do not bundling, winding or processing for the power cord. Or, do not deforming the power plug due to tread it. This may cause fire or heating.</p> <p>Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shocks.</p> | <p>Do not perform any change of protective device itself or its setup condition. The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst.</p> |
| <p>Carry out the electrical work for ground lead with care. Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting.</p> | | |

| CAUTION | | |
|---|---|---|
| <p>Use the circuit breaker with sufficient breaking capacity. If the breaker does not have sufficient breaking capacity, it can cause the unit malfunction and fire.</p> <p>Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks.</p> <p>Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations.</p> <p>After maintenance, all wiring, wiring ties and the like, should be returned to their original state and wiring route, and the necessary clearance from all metal parts should be secured.</p> <p>Secure a space for installation, inspection and maintenance specified in the manual. Insufficient space can result in accident such as personal injury due to falling from the installation place.</p> | <p>Take care when carrying the unit by hand. If the unit weights more than 20Kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins.</p> <p>Dispose of any packing materials correctly. Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from children and to dispose after tear it up.</p> <p>Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them. Insufficient insulation can cause condensation, which can lead to moisture damage on the ceiling, floor, furniture and any other valuables.</p> | <p>When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc.</p> |
| <p>Do not install the unit in the locations listed below.</p> <ul style="list-style-type: none"> • Locations where carbon fiber, metal powder or any powder is floating. • Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur. • Vehicles and ships. • Locations where cosmetic or special sprays are often used. • Locations with direct exposure of oil mist and steam such as kitchen and machine plant. • Locations where any machines which generate high frequency harmonics are used. • Locations with salty atmospheres such as coastlines. • Locations with heavy snow (If installed, be sure to provide | <p>base flame and snow hood mentioned in the manual).</p> <ul style="list-style-type: none"> • Locations where the unit is exposed to chimney smoke. • Locations at high altitude (more than 1000m high). • Locations with ammoniac atmospheres. • Locations where heat radiation from other heat source can affect the unit. • Locations without good air circulation. • Locations with any obstacles which can prevent inlet and outlet air of the unit. • Locations where short circuit of air can occur (in case of multiple units installation). • Locations where strong air blows against the air outlet of outdoor unit. <p>It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.</p> | <p>Do not install the outdoor unit in the locations listed below.</p> <ul style="list-style-type: none"> • Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood. • Locations where outlet air of the outdoor unit blows directly to plants. • Locations where vibration can be amplified and transmitted due to insufficient strength of structure. • Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room). • Locations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1m). • Locations where drainage cannot run off safely. <p>It can affect surrounding environment and cause a claim.</p> |

CAUTION

- Do not install the unit near the location where leakage of combustible gases can occur. If leaked gases accumulate around the unit, it can cause fire.
- Do not install the unit where corrosive gas (such as sulfurous acid gas etc.) or combustible gas (such as and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- Do not install the outdoor unit in a location where insects and small animals can inhabit. Insects and small animals can enter the electric parts and
- Do not touch any buttons with wet hands. It can cause electric shocks.
- Do not touch any refrigerant pipes with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition, and it

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

um fin on the

- breakage of plastic parts and etc. And combustible gas can cause fire.
- Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics. Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions operation.
- Using an old and damage base flame can cause the unit falling down and cause personal injury.
- Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used. Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.
- Do not put anything on the outdoor unit and operating unit. This may cause damage the objects or injury due to falling to the object.

Check before installation work

- Model name and power source
- Refrigerant piping length
- Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

| Accessories for outdoor unit | Q'ty |
|-------------------------------------|------|
| ① Grommet (Heat pump type only) | 1 |
| ② Drain elbow (Heat pump type only) | 1 |

| Option parts | Q'ty |
|--|------|
| Ⓐ Sealing plate | 1 |
| Ⓑ Sleeve | 1 |
| Ⓒ Inclination plate | 1 |
| Ⓓ Putty | 1 |
| Ⓔ Drain hose (extension hose) | 1 |
| ① Piping cover (for insulation of connection piping) | 1 |

| Necessary tools for the installation work |
|---|
| 1 Plus headed driver |
| 2 Knife |
| 3 Saw |
| 4 Tape measure |
| 5 Hammer |
| 6 Spanner wrench |
| 7 Torque wrench [14.0~62.0N·m (1.4~6.2kgf·m)] |
| 8 Hole core drill (65mm in diameter) |

| |
|---|
| 9 Wrench key (Hexagon) [4m/m] |
| 10 Vacuum pump |
| 11 Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A) |
| 12 Gauge manifold (Designed specifically for R410A) |
| 13 Charge hose (Designed specifically for R410A) |
| 14 Flaring tool set (Designed specifically for R410A) |
| 15 Gas leak detector (Designed specifically for R410A) |
| 16 Gauge for projection adjustment (Used when flare is made by using conventional flare tool) |

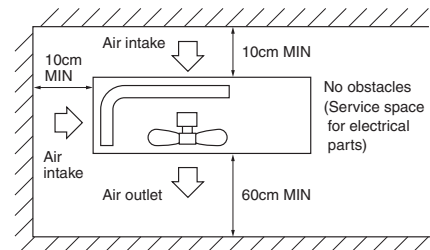
1 SELECTION OF INSTALLATION LOCATION

Install at location that meets the following conditions after getting approval from the customer.

- Where the following installation space is available, and where air does not gather.
- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation.
- Also, where the unit cannot be buried by snow.
- a location which can sustain the weight of the unit, and where noises and vibrations are not enhanced.
- Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.
- Please avoid the following locations.
- Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
- Where there are oil splashes, vapor, and smoke.
- Where there are possibilities of flammable gas leaks.

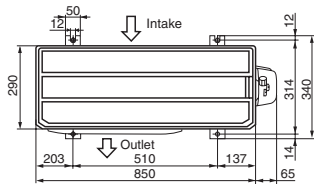
① Installation Space (on a flat surface)

- Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.
- (In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.)
- When the unit is installed, the space of the following dimension and above shall be secured.

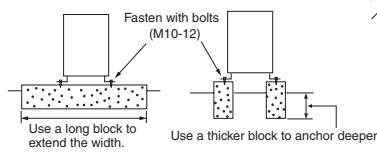


Installation

① Anchor bolt fixed position



② Notabilia for installation

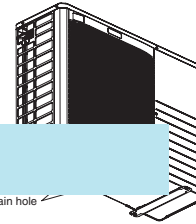


- In installing the unit, fix the unit's legs with bolts specified on the left.
 - The protrusion of an anchor bolt on the front side must be kept within 15 mm.
 - Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
 - Refer to the above illustrations for information regarding concrete foundations.
 - Install the unit in a level area. (With a gradient of 5 mm or less.)
- Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

2 INSTALLATION OF OUTDOOR UNIT

Drainage

- There are 2 holes in the bottom panel of the outdoor unit to drain condensation.
- Install the outdoor unit so it will be horizontal.



Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

Connection of the power supply cable and the connecting cables for indoor and outdoor units.

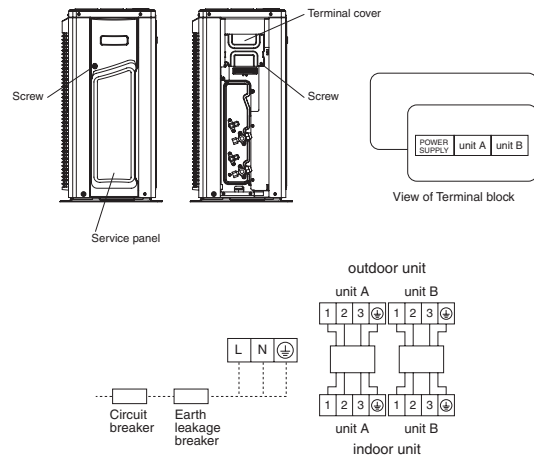
- This multi-type room air conditioner receives its power from outside.
- To ensure correct connections, mark each ends of the cables with number, A and B. It is important to use the same number the corresponding cables and pipes.
- An earth leakage breaker and a circuit breaker must be installed. Their capacities are 25A.

- ① Remove the service panel. (Remove the screw of the service panel.)
- ② Remove the terminal cover. (Remove the screw of the terminal cover.)
- ③ Connect the power supply cable and the connection wire securely to the terminal block.

[POWER SUPPLY CODE]
CENELEC code for cables requiring fields cables. H05RNR3G4.0
[INTERCONNECTING WIRING CODE]
CENELEC code for cables requiring fields cables. H05RNR4G1.5

- 1) In wiring, make sure that the wire terminal numbers of outdoor unit terminal block are match to the wire terminal numbers of indoor unit terminal block.
- 2) Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively.

- ④ After connecting the wire, use wiring clamps to secure the wiring.
- ⑤ Fit the terminal cover and the service panel.

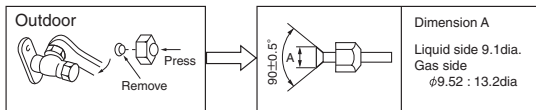


3 CONNECTION OF REFRIGERANT PIPINGS

[Connection of pipes]

NOTE

- Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
- When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.



- Remove the flared nuts. (on both liquid and gas sides)

- Install the removed flared nuts to the pipes to be connected, then flare the pipes.

CAUTION

Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur.

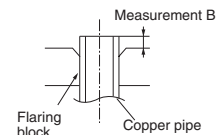
CAUTION

Do not apply refrigerating machine oil to the flared surface.

| Copper pipe diameter | Measurement B (mm) | | |
|----------------------|----------------------------------|-------------------------------|---------------|
| | Clutch type flare tool for R410A | Conventional (R22) flare tool | |
| | | Clutch type | Wing nut type |
| φ6.35 | 0.0~0.5 | 1.0~1.5 | 1.5~2.0 |
| φ9.52 | 0.0~0.5 | 1.0~1.5 | 1.5~2.0 |

Use a flare tool designed for R410A or a conventional flare tool. Please note that measurement B (protrusion from the flaring block) will vary depending on the type of a flare tool in use.

If a conventional flare tool is used, please use copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct value.



Connection

Outdoor

Liquid side
Gas side



- Connect the pipes on both liquid and gas sides.
- Tighten the nuts to the following torque.
Liquid side : 14.0~18.0N·m (1.4~1.8kgf·m)
Gas side (φ9.52): 33.0~42.0N·m (3.3~4.2kgf·m)

Gas Leakage Test

- Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.

[Limit]

| pipng length | one indoor unit all indoor unit | MAX 25m MAX 30m |
|---------------------------------------|------------------------------------|-------------------------------|
| hight difference | | MAX 15m MAX 25m MAX 15m |
| length of chargeless refrigerant pipe | 30m | |

4 AIR PURGING

NOTE : Fully open the operation valves (on both liquid and gas sides) after completing air purging.

- Since the system uses service ports differing in diameter from those found on the conventional models, a charge hose (for R22) presently in use is not applicable. Please use one designed specifically for R410A.
- Please use an anti-reverse flow type vacuum pump adapter so as to prevent vacuum pump oil from running back into the system. Oil running back into an air-conditioning system may cause the refrigerant cycle to break down.

Procedure

- (1) Secure all flare nuts on both indoor and outdoor sides to prevent leaks from the pipes.
- (2) Connect the operation valves, charge hose, manifold valve and vacuum pump as shown in the right figure.
- (3) Fully open the handle Lo for the manifold valve, and pump a vacuum for 15 minutes. Ensure that the meter is indicating -0.1MPa (-76cmHg).
- (4) After vacuuming, fully open the operation valve (both liquid and gas sides) with a hexagon wrench.
- (5) Remove the charge hose from service port.
- (6) Repeat the above steps (1) ~ (5) for all connected indoor units.
- (7) Ensure that there are no gas leaks from the joints in the indoor and outdoor units.

| Operation valve size (mm) | Operation valve cap tightening torque (N·m) | Check joint blind nut tightening torque (N·m) |
|---------------------------|---|---|
| φ 6.35 (1/4") | 20~30 | 10~12 |
| φ 9.52 (3/8") | | |

5 HEAT INSULATION FOR JOINTS

Heat insulation for joints

Cover the joint with insulation material and tape it.

Finish and fixing

Apply exterior tape and shape along the place where the pipes will be routed. Secure to the wall with a pipe clamp. Be careful not to damage the pipes and the wires.

7 BEWARE OF WRONG CONNECTIONS IN REFRIGERANT PIPING AND WIRING

- Make sure to match the piping and wiring from each unit to the outdoor unit.
- Be careful because if connections are wrong, normal operation cannot be achieved and may damage the compressor.

[Correct connections] **[Example of wrong connections]**

EARTHING WORK

- Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
- The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephonenumber, etc.)

6 TEST RUN AND HANDLING INSTRUCTIONS

Installation test check points

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the installation manual. If the compressor does not operate after the operation has started, wait for 5-10 minutes. (This may be due to delayed start.) (Three-minutes restart preventive timer) When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3minutes. This is to protect the unit and it is not a malfunction.

After installation

- The power supply voltage is correct as the rating.
- No gas leaks from the joints of the operation valve.
- Power cables and crossover wires are securely fixed to the terminal board.
- Each indoor and outdoor unit is properly connected (no wrong wiring or piping).
- Operation valve is fully open.
- Refrigerant has been additionally charged (when the total pipe length exceeds the refrigerant charged pipe length).
- The pipe joints for indoor and outdoor pipes have been insulated.
- Earthing work has been conducted properly.

Test run

- Air conditioning and heating are normal.
- No abnormal noise.
- Water drains smoothly.
- Protective functions are not working.
- Operation of the unit has been explained to the customer.
- The remote control is normal.

Operation of indicator lamps

| INDICATION LAMP | COLOR | FUNCTION |
|----------------------------------|-------|---|
| LED E (1) | RED | WARNING LAMP |
| SELF DIAGNOSIS FUNCTION BY LED E | | |
| 1 TIME FLASH | | CURRENT CUT |
| 2 TIME FLASH | | TROUBLE OF OUTDOOR UNIT |
| 3 TIME FLASH | | OVER CURRENT |
| 4 TIME FLASH | | TRANSMISSION ERROR IN OUTDOOR UNIT PCB |
| 5 TIME FLASH | | OVER HEAT OF COMPRESSOR |
| 6 TIME FLASH | | ERROR OF SIGNAL TRANSMISSION |
| 7 TIME FLASH | | LOCK OF COMPRESSOR |
| 8 TIME FLASH | | SENSOR ERROR (EXCEPT DISCHARGE PIPE SENSOR) |
| LIGHT ON | | OUTDOOR FAN MOTOR ERROR |
| FOUR SEC LIGHT AND FOUR SEC OFF | | DISCHARGE PIPE SENSOR ERROR |

(2) Model SCM50ZJ-S

RPC012A916A

MULTI TYPE AIR CONDITIONER
R410A REFRIGERANT USED

- This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to manual No.'10 • SCM-DB-092D.
- When install the unit, be sure to check whether the selection of installation place, power supply specifications, usage limitation (mining length, height differences between

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- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into **WARNING** and **CAUTION**. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the **WARNING** and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in **CAUTION**. These are very important precautions for safety. Be sure to observe all of them without fail.
- Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to

the user according to the owner's manual.

- Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user.
- For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, gloves, etc., and then perform the installation works.
- Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
- If unusual noise can be heard during operation, consult the dealer.
- Symbols which appear frequently in the text have the following meaning:

| | | | | | |
|--|--------------------------------------|--|---------------------|--|-------------------------|
| | Observe instructions with great care | | Strictly prohibited | | Provide proper earthing |
|--|--------------------------------------|--|---------------------|--|-------------------------|

WARNING

| | | |
|---|---|---|
| <p>!</p> <ul style="list-style-type: none"> • Installation must be carried out by the qualified installer. If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system malfunction. • Install the system in full accordance with the instruction manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire. • Be sure to use only for household and residence. If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction. • Use the original accessories and the specified components for installation. If parts other than those prescribed by us are used, it may cause water leaks, electric shocks, fire and personal injury. • Install the unit in a location with good support. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. • Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. • Ventilate the working area well in the event of refrigerant leakage during installation. If the refrigerant comes into contact with naked flames, poisonous gas is produced. • Use the prescribed pipes, flare nuts and tools for R410A. Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit. | <ul style="list-style-type: none"> • Tighten the flare nut by torque wrench with specified method. If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period. • Do not open the operation valves for liquid line and gas line until completed refrigerant piping work, air tightness test and evacuation. If the compressor is operated in state of opening operation valves before completed connection of refrigerant piping work, air can be sucked into refrigerant circuit, which can cause burst or personal injury due to anomalously high pressure in the refrigerant. • The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit. Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire. • Be sure to shut off the power before starting electrical work. Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment. • Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. Unconformable cables can cause electric leak, anomalous heat production or fire. • This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm. | <ul style="list-style-type: none"> • Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. • Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly. Incorrect installation may result in overheating and fire. • Be sure to fix up the service panels. Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water. • Be sure to switch off the power supply in the event of installation, inspection or servicing. If the power supply is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan. • Stop the compressor before disconnecting refrigerant pipes in case of pump down operation. If disconnecting refrigerant pipes in state of opening operation valves before compressor stopping, air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrigerant circuit. • Only use prescribed optional parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire. |
| <p>⊘</p> <ul style="list-style-type: none"> • Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury. • Do not processing, splice the power cord, or share a socket with other power plugs. This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc. | <ul style="list-style-type: none"> • Do not bundling, winding or processing for the power cord. Or, do not deforming the power plug due to tread it. This may cause fire or heating. • Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shocks. | <ul style="list-style-type: none"> • Do not perform any change of protective device itself or its setup condition. The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst. |
| <p>⚡</p> <ul style="list-style-type: none"> • Carry out the electrical work for ground lead with care. Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting. | | |

CAUTION

| | | |
|--|--|---|
| <p>!</p> <ul style="list-style-type: none"> • Use the circuit breaker with sufficient breaking capacity. If the breaker does not have sufficient breaking capacity, it can cause the unit malfunction and fire. • Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks. • Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations. • After maintenance, all wiring, wiring ties and the like, should be returned to their original state and wiring route, and the necessary clearance from all metal parts should be secured. • Secure a space for installation, inspection and maintenance specified in the manual. Insufficient space can result in accident such as personal injury due to falling from the installation place. | <ul style="list-style-type: none"> • Take care when carrying the unit by hand. If the unit weights more than 20kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins. • Dispose of any packing materials correctly. Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from children and to dispose after tear it up. • Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them. Insufficient insulation can cause condensation, which can lead to moisture damage on the ceiling, floor, furniture and any other valuables. | <ul style="list-style-type: none"> • When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc. |
| <p>⊘</p> <ul style="list-style-type: none"> • Do not install the unit in the locations listed below. <ul style="list-style-type: none"> • Locations where carbon fiber, metal powder or any powder is floating. • Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur. • Vehicles and ships. • Locations where cosmetic or special sprays are often used. • Locations with direct exposure of oil mist and steam such as kitchen and machine plant. • Locations where any machines which generate high frequency harmonics are used. • Locations with salty atmospheres such as coastlines. • Locations with heavy snow (if installed, be sure to provide | <ul style="list-style-type: none"> • base flame and snow hood mentioned in the manual). • Locations where the unit is exposed to chimney smoke. • Locations at high altitude (more than 1000m high). • Locations with ammoniac atmospheres. • Locations where heat radiation from other heat source can affect the unit. • Locations without good air circulation. • Locations with any obstacles which can prevent inlet and outlet air of the unit. • Locations where short circuit of air can occur (in case of multiple units installation). • Locations where strong air blows against the air outlet of outdoor unit. <p>It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.</p> | <ul style="list-style-type: none"> • Do not install the outdoor unit in the locations listed below. <ul style="list-style-type: none"> • Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood. • Locations where outlet air of the outdoor unit blows directly to plants. • Locations where vibration can be amplified and transmitted due to insufficient strength of structure. • Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room). • Locations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1m). • Locations where drainage cannot run off safely. • It can affect surrounding environment and cause a claim. |

CAUTION

- Do not install the unit near the location where leakage of combustible gases can occur. If leaked gases accumulate around the unit, it can cause fire.
- Do not install the unit where corrosive gas (such as sulfurous acid gas etc.) or combustible gas (such as
- and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- Do not install the outdoor unit in a location where insects and small animals can inhabit. Insects and small animals can enter the electric parts and
- Do not touch any buttons with wet hands. It can cause electric shocks.
- Do not touch any refrigerant pipes with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it

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sum fin on the

- breakage of plastic parts and etc. And combustible gas can cause fire.
- Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics. Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions
- operation. Using an old and damage base flame can cause the unit falling down and cause personal injury.
- Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used. Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.
- Do not put anything on the outdoor unit and operating unit. This may cause damage the objects or injury due to falling to the object.

Check before installation work

- Model name and power source
- Refrigerant piping length
- Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

| Accessories for outdoor unit | Q'ty | |
|-------------------------------------|-------|---|
| ① Grommet (Heat pump type only) | 1 | |
| ② Drain elbow (Heat pump type only) | 1 | |
| ③ Variable diameter joint | SCM50 | 1 |
| | SCM60 | 2 |

Note: Provide flare nuts when using the variable diameter joint (for $\phi 12.7$).

| Option parts | Q'ty | Necessary tools for the installation work |
|--|------|---|
| Ⓐ Sealing plate | 1 | 1 Plus headed driver |
| Ⓑ Sleeve | 1 | 2 Knife |
| Ⓒ Inclination plate | 1 | 3 Saw |
| Ⓓ Putty | 1 | 4 Tape measure |
| Ⓔ Drain hose (extension hose) | 1 | 5 Hammer |
| | | 6 Spanner wrench |
| ① Piping cover (for insulation of connection piping) | 1 | 7 Torque wrench [14.0~62.0N·m (1.4~6.2kgf·m)] |
| | | 8 Hole core drill (65mm in diameter) |
| | | 9 Wrench key (Hexagon) [4m/m] |
| | | 10 Vacuum pump |
| | | 11 Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A) |
| | | 12 Gauge manifold (Designed specifically for R410A) |
| | | 13 Charge hose (Designed specifically for R410A) |
| | | 14 Flaring tool set (Designed specifically for R410A) |
| | | 15 Gas leak detector (Designed specifically for R410A) |
| | | 16 Gauge for projection adjustment (Used when flare is made by using conventional flare tool) |

CAUTION • This model requires a minimum of 2 indoor units.

1 SELECTION OF INSTALLATION LOCATION

Install at location that meets the following conditions after getting approval from the customer.

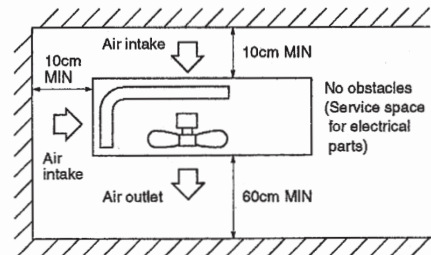
- Where the following installation space is available, and where air does not gather.
- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation.
- Also, where the unit cannot be buried by snow. a location which can sustain the weight of the unit, and where noises and vibrations are not enhanced.
- Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.
- ※ Please avoid the following locations.
 - Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
 - Where there are oil splashes, vapor, and smoke.
 - Where there are possibilities of flammable gas leaks.

① Installation Space (on a flat surface)

Ⓞ Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.

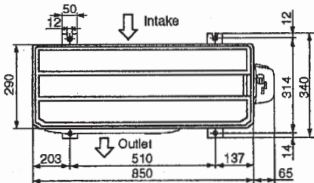
(In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.)

Ⓞ When the unit is installed, the space of the following dimension and above shall be secured.

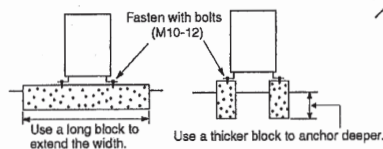


Installation

① Anchor bolt fixed position



② Notabilia for installation

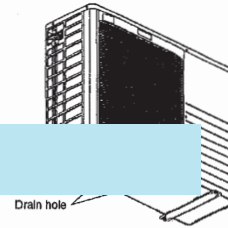


- In installing the unit, fix the unit's legs with bolts specified on the left.
 - The protrusion of an anchor bolt on the front side must be kept within 15 mm.
 - Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
 - Refer to the above illustrations for information regarding concrete foundations.
 - Install the unit in a level area. (With a gradient of 5 mm or less.)
- Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

2 INSTALLATION OF OUTDOOR UNIT

Drainage

- There are 2 holes in the bottom panel of the outdoor unit to drain condensation.
- Install the outdoor unit so it will be horizontal.



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Connection of the power supply cable and the connecting cables for indoor and outdoor units.

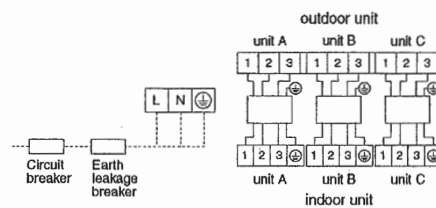
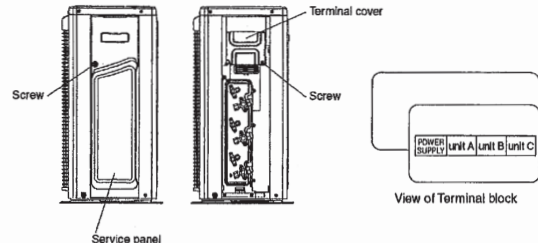
- This multi-type room air conditioner receives its power from outside.
- To ensure correct connections, mark each ends of the cables with number, A to C. It is important to use the same number the corresponding cables and pipes.
- An earth leakage breaker and a circuit breaker must be installed. Their capacities are 25A.

- ① Remove the service panel. (Remove the screw of the service panel.)
- ② Remove the terminal cover. (Remove the screw of the terminal cover.)
- ③ Connect the power supply cable and the connection wire securely to the terminal block.

[POWER SUPPLY CODE]
CENELEC code for cables requiring fields cables. H05RNR3G4.0
(INTERCONNECTING WIRING CODE)
CENELEC code for cables requiring fields cables. H05RNR4G1.5

- 1) In wiring, make sure that the wire terminal numbers of outdoor unit terminal block are match to the wire terminal numbers of indoor unit terminal block.
- 2) Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively.

- ④ After connecting the wire, use wiring clamps to secure the wiring.
- ⑤ Fit the terminal cover and the service panel.



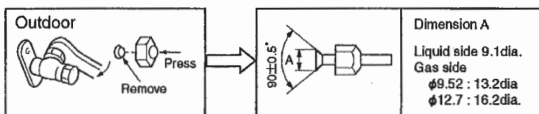
3 CONNECTION OF REFRIGERANT PIPINGS

- Regarding the change in the sizes of gas side pipes (usage of the variable joints); If a 5.0, 6.0 kw class indoor unit (gas side pipe 12.7) is going to be connected to the operation valves (9.52), variable joints available as accessories must be applied to the gas side operation valves.
- Securely fit the copper packing between the operation valve and the variable diameter joint to prevent shifting.

[Connection of pipes]

NOTE

- Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
- When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.



- Remove the flared nuts. (on both liquid and gas sides)
- Install the removed flared nuts to the pipes to be connected, then flare the pipes.

CAUTION

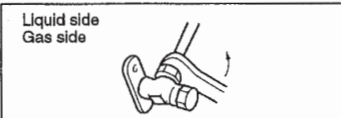
Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur.

CAUTION

Do not apply refrigerating machine oil to the flared surface.

Connection

Outdoor



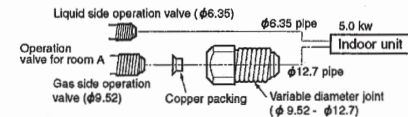
- Connect the pipes on both liquid and gas sides.
- Tighten the nuts to the following torque.
Liquid side : 14.0~18.0N·m (1.4~1.8kgf·m)
Gas side (φ9.52): 33.0~42.0N·m (3.3~4.2kgf·m)
(φ12.7): 49.0~61.0N·m (4.9~6.1kgf·m)

Gas Leakage Test

- Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.

[Examples of use of variable diameter joints]

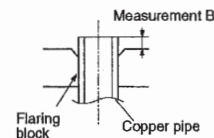
- Connection of indoor unit of Class 5.0 to A unit.



| Copper pipe diameter | Measurement B (mm) | | |
|----------------------|----------------------------------|-------------------------------|---------------|
| | Clutch type flare tool for R410A | Conventional (R22) flare tool | |
| | | Clutch type | Wing nut type |
| φ6.35 | 0.0~0.5 | 1.0~1.5 | 1.5~2.0 |
| φ9.52 | 0.0~0.5 | 1.0~1.5 | 1.5~2.0 |
| φ12.7 | 0.0~0.5 | 1.0~1.5 | 2.0~2.5 |

Use a flare tool designed for R410A or a conventional flare tool. Please note that measurement B (protrusion from the flaring block) will vary depending on the type of a flare tool in use.

If a conventional flare tool is used, please use copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct value.



[Limit]

| piping length | one indoor unit all indoor unit | |
|---------------------------------------|---------------------------------|---------|
| | MAX 25m | MAX 40m |
| height difference | MAX 15m | MAX 15m |
| | MAX 25m | MAX 15m |
| length of chargeless refrigerant pipe | 40m | |

4 AIR PURGING

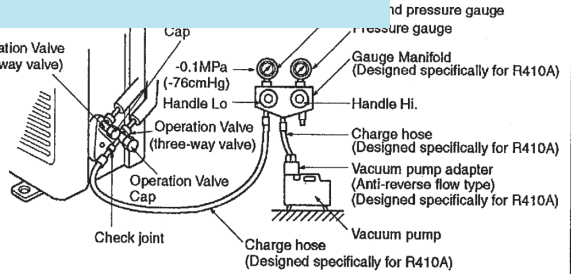
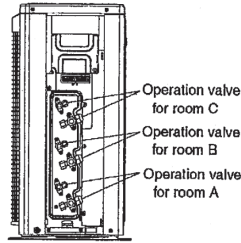
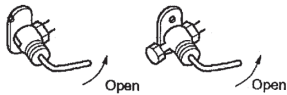
NOTE : Fully open the operation valves (on both liquid and gas sides) after completing air purging.

- Since the system uses service ports differing in diameter from those found on the conventional models, a charge hose (for R22) presently in use is not applicable. Please use one designed specifically for R410A.
- Please use an anti-reverse flow type vacuum pump adapter so as to prevent vacuum pump oil from running back into the system. Oil running back into an air-conditioning system may cause the refrigerant cycle to break down.

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

Procedure

- (1) Secure all flare nuts on both indoor and outdoor sides to prevent leaks from the pipes.
- (2) Connect the operation valves, charge hose, manifold valve and vacuum pump as shown in the right figure.
- (3) Fully open the handle Lo for the manifold valve, and pump a vacuum for 15 minutes. Ensure that the meter is indicating -0.1MPa (-76cmHg).
- (4) After vacuuming, fully open the operation valve (both liquid and gas sides) with a hexagon wrench.



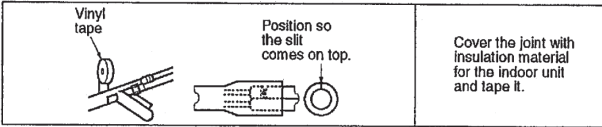
Securely tighten the operation valve cap and the check joint blind nut after adjustment.

| Operation valve size (mm) | Operation valve cap tightening torque (N·m) | Check joint blind nut tightening torque (N·m) |
|---------------------------|---|---|
| φ 6.35 (1/4") | 20~30 | 10~12 |
| φ 9.52 (3/8") | | |
| φ 12.7 (1/2") | 25~35 | |

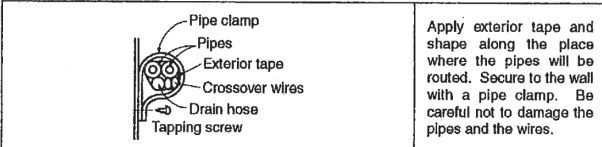
- (5) Remove the charge hose from service port.
- (6) Repeat the above steps (1) ~ (5) for all connected indoor units.
- (7) Ensure that there are no gas leaks from the joints in the indoor and outdoor units.

5 HEAT INSULATION FOR JOINTS

Heat insulation for joints



Finish and fixing

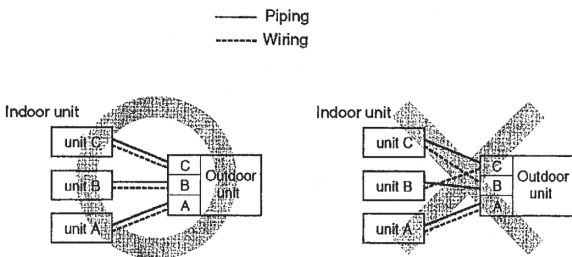


7 BEWARE OF WRONG CONNECTIONS IN REFRIGERANT PIPING AND WIRING

- Make sure to match the piping and wiring from each unit to the outdoor unit.
- Be careful because if connections are wrong, normal operation cannot be achieved and may damage the compressor.

[Correct connections]

[Example of wrong connections]



EARTHING WORK

- Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
- The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephonenumber, etc.)

6 TEST RUN AND HANDLING INSTRUCTIONS

Installation test check points

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the installation manual. If the compressor does not operate after the operation has started, wait for 5-10 minutes. (This may be due to delayed start.) (Three-minutes restart preventive timer) When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3minutes. This is to protect the unit and it is not a malfunction.

After installation

- The power supply voltage is correct as the rating.
- No gas leaks from the joints of the operation valve.
- Power cables and crossover wires are securely fixed to the terminal board.
- Each indoor and outdoor unit is properly connected (no wrong wiring or piping).
- Operation valve is fully open.
- Refrigerant has been additionally charged (when the total pipe length exceeds the refrigerant charged pipe length).
- The pipe joints for indoor and outdoor pipes have been insulated.
- Earthing work has been conducted properly.

Test run

- Air conditioning and heating are normal.
- No abnormal noise.
- Water drains smoothly.
- Protective functions are not working.
- Operation of the unit has been explained to the customer.
- The remote control is normal.

Operation of indicator lamps

| INDICATION LAMP | COLOR | FUNCTION |
|----------------------------------|---|--------------|
| LED E (1) | RED | WARNING LAMP |
| SELF DIAGNOSIS FUNCTION BY LED E | | |
| 1 TIME FLASH | CURRENT CUT | |
| 2 TIME FLASH | TROUBLE OF OUTDOOR UNIT | |
| 3 TIME FLASH | OVER CURRENT | |
| 4 TIME FLASH | TRANSMISSION ERROR IN OUTDOOR UNIT PCB | |
| 5 TIME FLASH | OVER HEAT OF COMPRESSOR | |
| 6 TIME FLASH | ERROR OF SIGNAL TRANSMISSION | |
| 7 TIME FLASH | LOCK OF COMPRESSOR | |
| 8 TIME FLASH | SENSOR ERROR (EXCEPT DISCHARGE PIPE SENSOR) | |
| LIGHT ON | OUTDOOR FAN MOTOR ERROR | |
| FOUR SEC LIGHT AND FOUR SEC OFF | DISCHARGE PIPE SENSOR ERROR | |

(3) Model SCM71ZJ-S

RPC012A913

MULTI TYPE AIR CONDITIONER
R410A REFRIGERANT USED

- This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to manual No.'10 - SCM-DB-092D.
- When install the unit, be sure to check whether the selection of installation place, power supply specifications, usage limitation (lining length, height differences between

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- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into **WARNING** and **CAUTION**. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the **WARNING** and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in **CAUTION**. These are very important precautions for safety. Be sure to observe all of them without fail.
- Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to

the user according to the owner's manual.

- Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user.
- For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, gloves, etc., and then perform the installation works.
- Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
- If unusual noise can be heard during operation, consult the dealer.
- Symbols which appear frequently in the text have the following meaning:

| | | | | | |
|--|--------------------------------------|--|---------------------|--|-------------------------|
| | Observe instructions with great care | | Strictly prohibited | | Provide proper earthing |
|--|--------------------------------------|--|---------------------|--|-------------------------|

WARNING

| | | |
|---|---|---|
| <p></p> <ul style="list-style-type: none"> • Installation must be carried out by the qualified installer. If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system malfunction. • Install the system in full accordance with the instruction manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire. • Be sure to use only for household and residence. If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction. • Use the original accessories and the specified components for installation. If parts other than those prescribed by us are used, it may cause water leaks, electric shocks, fire and personal injury. • Install the unit in a location with good support. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. • Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. • Ventilate the working area well in the event of refrigerant leakage during installation. If the refrigerant comes into contact with naked flames, poisonous gas is produced. • Use the prescribed pipes, flare nuts and tools for R410A. Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit. | <ul style="list-style-type: none"> • Tighten the flare nut by torque wrench with specified method. If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period. • Do not open the operation valves for liquid line and gas line until completed refrigerant piping work, air tightness test and evacuation. If the compressor is operated in state of opening operation valves before completed connection of refrigerant piping work, air can be sucked into refrigerant circuit, which can cause burst or personal injury due to anomalously high pressure in the refrigerant. • The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit. Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire. • Be sure to shut off the power before starting electrical work. Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment. • Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. Unconformable cables can cause electric leak, anomalous heat production or fire. • This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm. | <ul style="list-style-type: none"> • Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. • Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly. Incorrect installation may result in overheating and fire. • Be sure to fix up the service panels. Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water. • Be sure to switch off the power supply in the event of installation, inspection or servicing. If the power supply is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan. • Stop the compressor before disconnecting refrigerant pipes in case of pump down operation. If disconnecting refrigerant pipes in state of opening operation valves before compressor stopping, air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrigerant circuit. • Only use prescribed optional parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire. |
| <p></p> <ul style="list-style-type: none"> • Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury. • Do not processing, splice the power cord, or share a socket with other power plugs. This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc. | <ul style="list-style-type: none"> • Do not bundling, winding or processing for the power cord. Or, do not deforming the power plug due to tread it. This may cause fire or heating. • Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shocks. | <ul style="list-style-type: none"> • Do not perform any change of protective device itself or its setup condition. The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst. |
| <p></p> <ul style="list-style-type: none"> • Carry out the electrical work for ground lead with care. Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting. | | |

CAUTION

| | | |
|--|--|--|
| <p></p> <ul style="list-style-type: none"> • Use the circuit breaker with sufficient breaking capacity. If the breaker does not have sufficient breaking capacity, it can cause the unit malfunction and fire. • Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks. • Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations. • After maintenance, all wiring, wiring ties and the like, should be returned to their original state and wiring route, and the necessary clearance from all metal parts should be secured. • Secure a space for installation, inspection and maintenance specified in the manual. Insufficient space can result in accident such as personal injury due to falling from the installation place. | <ul style="list-style-type: none"> • Take care when carrying the unit by hand. If the unit weights more than 20kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins. • Dispose of any packing materials correctly. Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from children and to dispose after tear it up. • Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them. Insufficient insulation can cause condensation, which can lead to moisture damage on the ceiling, floor, furniture and any other valuables. | <ul style="list-style-type: none"> • When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc. |
| <p></p> <ul style="list-style-type: none"> • Do not install the unit in the locations listed below. <ul style="list-style-type: none"> • Locations where carbon fiber, metal powder or any powder is floating. • Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur. • Vehicles and ships. • Locations where cosmetic or special sprays are often used. • Locations with direct exposure of oil mist and steam such as kitchen and machine plant. • Locations where any machines which generate high frequency harmonics are used. • Locations with salty atmospheres such as coastlines. • Locations with heavy snow (if installed, be sure to provide | <ul style="list-style-type: none"> • base flame and snow hood mentioned in the manual). • Locations where the unit is exposed to chimney smoke. • Locations at high altitude (more than 1000m high). • Locations with ammoniac atmospheres. • Locations where heat radiation from other heat source can affect the unit. • Locations without good air circulation. • Locations with any obstacles which can prevent inlet and outlet air of the unit. • Locations where short circuit of air can occur (in case of multiple units installation). • Locations where strong air blows against the air outlet of outdoor unit. <p>It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.</p> | <ul style="list-style-type: none"> • Do not install the outdoor unit in the locations listed below. <ul style="list-style-type: none"> • Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood. • Locations where outlet air of the outdoor unit blows directly to plants. • Locations where vibration can be amplified and transmitted due to insufficient strength of structure. • Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room). • Locations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1m). • Locations where drainage cannot run off safely. It can affect surrounding environment and cause a claim. |

⚠ CAUTION

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

- Do not install the unit where corrosive gas (such as sulfurous acid gas etc.) or combustible gas (such as thinner and petroleum gases) can accumulate or collect, or where volatile combustible substances are handled.
Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.
- Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.
Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions

- insects and small animals can inhabit.
Insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.
- Do not use the base flange for outdoor unit which is corroded or damaged due to long periods of operation.
Using an old and damage base flange can cause the unit falling down and cause personal injury.
- Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.
Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.

- During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury.
- Do not touch the suction or aluminum fin on the outdoor unit.
This may cause injury.
- Do not put anything on the outdoor unit and operating unit.
This may cause damage the objects or injury due to falling to the object.

Check before installation work

- Model name and power source
- Refrigerant piping length
- Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

| Accessories for outdoor unit | Q'ty |
|---|------|
| ① Grommet (Heat pump type only) | 2 |
| ② Drain elbow (Heat pump type only) | 1 |
| ③ Variable diameter joint $\phi 9.52 \Rightarrow \phi 12.7$ | 2 |

Note: Provide flare nuts when using the variable diameter joint (for $\phi 12.7$).

| Option parts | Q'ty | Necessary tools for the installation work |
|--|------|---|
| Ⓐ Sealing plate | 1 | 9 Wrench key (Hexagon) [4m/m] |
| Ⓑ Sleeve | 1 | 10 Vacuum pump |
| Ⓒ Inclination plate | 1 | 11 Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A) |
| Ⓓ Putty | 1 | 12 Gauge manifold (Designed specifically for R410A) |
| Ⓔ Drain hose (extension hose) | 1 | 13 Charge hose (Designed specifically for R410A) |
| Ⓕ Piping cover (for insulation of connection piping) | 1 | 14 Flaring tool set (Designed specifically for R410A) |
| | | 15 Gas leak detector (Designed specifically for R410A) |
| | | 16 Gauge for projection adjustment (Used when flare is made by using conventional flare tool) |
| | | 1 Plus headed driver |
| | | 2 Knife |
| | | 3 Saw |
| | | 4 Tape measure |
| | | 5 Hammer |
| | | 6 Spanner wrench |
| | | 7 Torque wrench [14.0~62.0N·m (1.4~6.2kgf·m)] |
| | | 8 Hole core drill (65mm in diameter) |

CAUTION • This model requires a minimum of 2 indoor units.

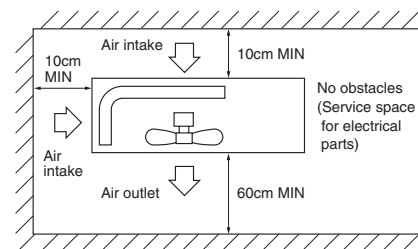
1 SELECTION OF INSTALLATION LOCATION

Install at location that meets the following conditions after getting approval from the customer.

- Where the following installation space is available, and where air does not gather.
- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation.
- Also, where the unit cannot be buried by snow.
a location which can sustain the weight of the unit, and where noises and vibrations are not enhanced.
- Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.
- ※ Please avoid the following locations.
- Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
- Where there are oil splashes, vapor, and smoke.
- Where there are possibilities of flammable gas leaks.

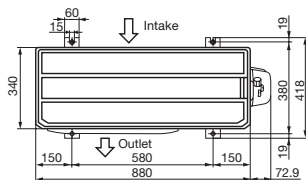
① Installation Space (on a flat surface)

- Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.
(In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.)
- When the unit is installed, the space of the following dimension and above shall be secured.

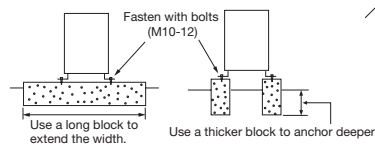


Installation

① Anchor bolt fixed position



② Notabilia for installation



- In installing the unit, fix the unit's legs with bolts specified on the left.
- The protrusion of an anchor bolt on the front side must be kept within 15 mm.
- Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
- Refer to the above illustrations for information regarding concrete foundations.
- Install the unit in a level area. (With a gradient of 5 mm or less.)
Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

2 INSTALLATION OF OUTDOOR UNIT

Drainage

- There are 3 holes in the bottom panel of the outdoor unit to drain condensation.
- Install the outdoor unit so it will be horizontal.

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

not install a drain elbow. (water discharge could stop due to freezing.)

Connection of the power supply cable and the connecting cables for indoor and outdoor units.

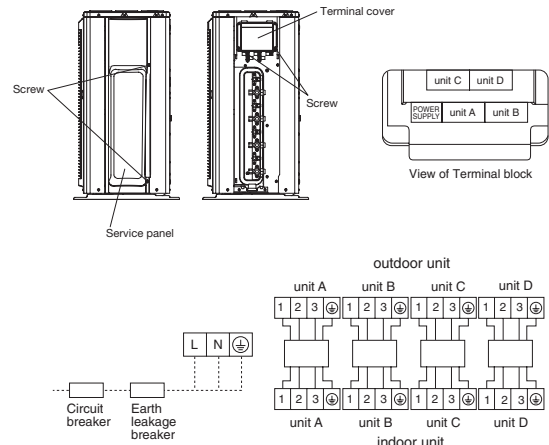
- This multi-type room air conditioner receives its power from outside.
- To ensure correct connections, mark each ends of the cables with number, A to D. It is important to use the same number the corresponding cables and pipes.
- An earth leakage breaker and a circuit breaker must be installed. Their capacities are 25A.

- ① Remove the service panel. (Remove the 2 sets screws of the service panel.)
- ② Remove the terminal cover. (Remove the 2 sets screws of the terminal cover.)
- ③ Connect the power supply cable and the connection wire securely to the terminal block.

[POWER SUPPLY CODE]
CENELEC code for cables requiring fields cables. H05RNR3G4.0
[INTERCONNECTING WIRING CODE]
CENELEC code for cables requiring fields cables. H05RNR4G1.5

- 1) In wiring, make sure that the wire terminal numbers of outdoor unit terminal block are match to the wire terminal numbers of indoor unit terminal block.
- 2) Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively.

- ④ After connecting the wire, use wiring clamps to secure the wiring.
- ⑤ Fit the terminal cover and the service panel.



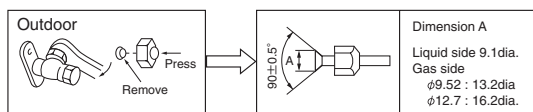
3 CONNECTION OF REFRIGERANT PIPINGS

- Regarding the change in the sizes of gas side pipes (usage of the variable joints); If a 5.0, 6.0 kw class indoor unit (gas side pipe 12.7) is going to be connected to the operation valves (9.52), variable joints available as accessories must be applied to the gas side operation valves.
- Securely fit the copper packing between the operation valve and the variable diameter joint to prevent shifting.

[Connection of pipes]

NOTE

- Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
- When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.



- Remove the flared nuts. (on both liquid and gas sides)
- Install the removed flared nuts to the pipes to be connected, then flare the pipes.

CAUTION

Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur.

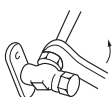
CAUTION

Do not apply refrigerating machine oil to the flared surface.

Connection

Outdoor

Liquid side
Gas side



- Connect the pipes on both liquid and gas sides.
- Tighten the nuts to the following torque.
Liquid side : 14.0~18.0N·m (1.4~1.8kgf·m)
Gas side (φ9.52): 33.0~42.0N·m (3.3~4.2kgf·m)
(φ12.7): 49.0~61.0N·m (4.9~6.1kgf·m)

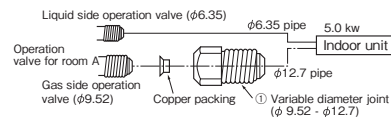
- When the total refrigerant pipe length for all the rooms exceeds the length of the uncharged pipe (40m), additional refrigerant is required. (If 40m or less, additional charge is not required.)
Additional charge amount per meter = 20g/m

Gas Leakage Test

- Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.

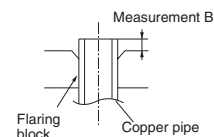
[Examples of use of variable diameter joints]

- Connection of indoor unit of Class 5.0 to A unit.



| Copper pipe diameter | Measurement B (mm) | | |
|----------------------|----------------------------------|-------------------------------|---------------|
| | Clutch type flare tool for R410A | Conventional (R22) flare tool | |
| | | Clutch type | Wing nut type |
| φ6.35 | 0.0~0.5 | 1.0~1.5 | 1.5~2.0 |
| φ9.52 | 0.0~0.5 | 1.0~1.5 | 1.5~2.0 |
| φ12.7 | 0.0~0.5 | 1.0~1.5 | 2.0~2.5 |

Use a flare tool designed for R410A or a conventional flare tool. Please note that measurement B (protrusion from the flaring block) will vary depending on the type of a flare tool in use. If a conventional flare tool is used, please use a copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct value.



[Limit]

| piping length | one indoor unit | MAX 25m |
|---------------------------------------|-----------------|---------|
| | all indoor unit | MAX 70m |
| height difference | MAX 20m | MAX 20m |
| length of chargeless refrigerant pipe | 40m | |

4 AIR PURGING

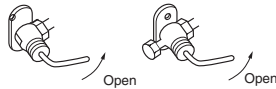
NOTE : Fully open the operation valves (on both liquid and gas sides) after completing air purging.

- Since the system uses service ports differing in diameter from those found on the conventional models, a charge hose (for R22) presently in use is not applicable. Please use one designed specifically for R410A.
- Please use an anti-reverse flow type vacuum pump adapter so as to prevent vacuum pump oil from running back into the system. Oil running back into an air-conditioning system may cause the refrigerant cycle to break down.

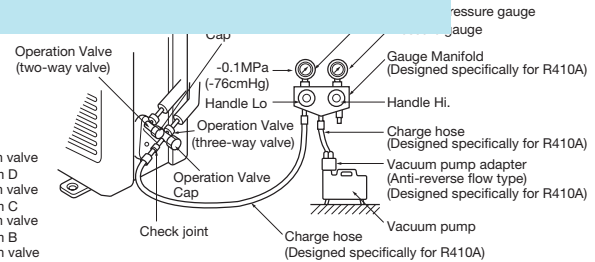
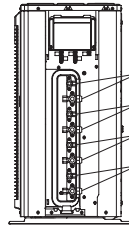
Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

Procedure

- (1) Secure all flare nuts on both indoor and outdoor sides to prevent leaks from the pipes.
- (2) Connect the operation valves, charge hose, manifold valve and vacuum pump as shown in the right figure.
- (3) Fully open the handle Lo for the manifold valve, and pump a vacuum for 15 minutes. Ensure that the meter is indicating -0.1MPa (-76cmHg).
- (4) After vacuuming, fully open the operation valve (both liquid and gas sides) with a hexagon wrench.



- (5) Remove the charge hose from service port.
- (6) Repeat the above steps (1) ~ (5) for all connected indoor units.
- (7) Ensure that there are no gas leaks from the joints in the indoor and outdoor units.

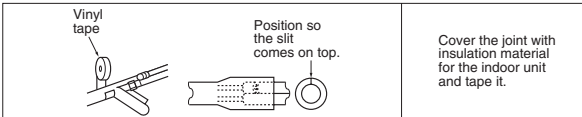


Securely tighten the operation valve cap and the check joint blind nut after adjustment.

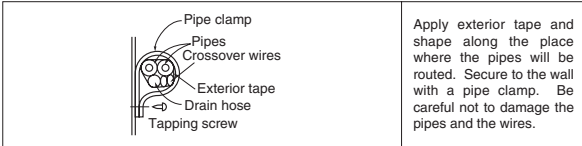
| Operation valve size (mm) | Operation valve cap tightening torque (N·m) | Check joint blind nut tightening torque (N·m) |
|---------------------------|---|---|
| φ6.35 (1/4") | 20~30 | 10~12 |
| φ9.52 (3/8") | | |
| φ12.7 (1/2") | 25~35 | |

5 HEAT INSULATION FOR JOINTS

Heat insulation for joints



Finish and fixing

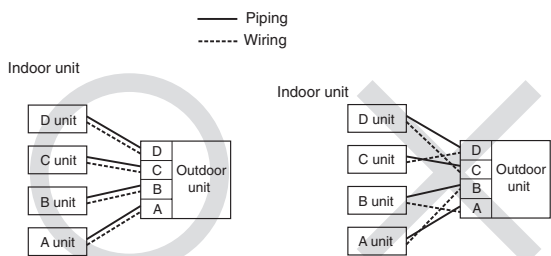


7 BEWARE OF WRONG CONNECTIONS IN REFRIGERANT PIPING AND WIRING.

- Make sure to match the piping and wiring from each unit to the outdoor unit.
- Be careful because if connections are wrong, normal operation cannot be achieved and may damage the compressor.

[Correct connections]

[Example of wrong connections]



EARTHING WORK

- Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
- The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

6 TEST RUN AND HANDLING INSTRUCTIONS

Installation test check points

Check the following points again after completion of the installation, and before turning on the power.
 Conduct a test run again and ensure that the unit operates properly.
 At the same time, explain to the customer how to use the unit and how to take care of the unit following the installation manual.
 If the compressor does not operate after the operation has started, wait for 5-10 minutes. (This may be due to delayed start.)
 (Three-minute restart preventive timer)
 When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3minutes. This is to protect the unit and it is not a malfunction.

After installation

- The power supply voltage is correct as the rating.
- No gas leaks from the joints of the operation valve.
- Power cables and crossover wires are securely fixed to the terminal board.
- Each indoor and outdoor unit is properly connected (no wrong wiring or piping).
- Operation valve is fully open.
- Refrigerant has been additionally charged (when the total pipe length exceeds the refrigerant charged pipe length).
- The pipe joints for indoor and outdoor pipes have been insulated.
- Earthing work has been conducted properly.

Test run

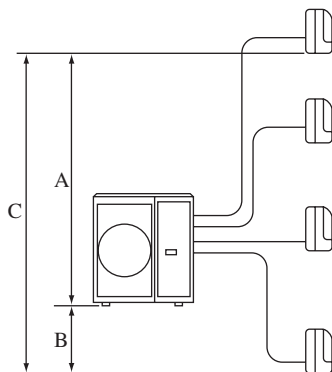
- Air conditioning and heating are normal.
- No abnormal noise.
- Water drains smoothly.
- Protective functions are not working.
- Operation of the unit has been explained to the customer.
- The remote control is normal.

Operation of indicator lamps

| INDICATION LAMP | COLOR | FUNCTION |
|----------------------------------|-------|---|
| LED E (1) | RED | WARNING LAMP |
| SELF DIAGNOSIS FUNCTION BY LED E | | |
| 1 TIME FLASH | | CURRENT CUT |
| 2 TIME FLASH | | TROUBLE OF OUTDOOR UNIT |
| 3 TIME FLASH | | OVER CURRENT |
| 4 TIME FLASH | | TRANSMISSION ERROR IN OUTDOOR UNIT PCB |
| 5 TIME FLASH | | OVER HEAT OF COMPRESSOR |
| 6 TIME FLASH | | ERROR OF SIGNAL TRANSMISSION |
| 7 TIME FLASH | | LOCK OF COMPRESSOR |
| 8 TIME FLASH | | SENSOR ERROR (EXCEPT DISCHARGE PIPE SENSOR) |
| LIGHT ON | | OUTDOOR FAN MOTOR ERROR |
| FOUR SEC LIGHT AND FOUR SEC OFF | | DISCHARGE PIPE SENSOR ERROR |

7. RANGE OF USAGE & LIMITATIONS

| Item | | Models | | | |
|---|--|--|---------------------------|--------------|--------------|
| | | SCM40ZJ-S | SCM45ZJ-S | SCM50ZJ-S | SCM71ZJ-S |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | |
| Outdoor air temperature (Upper, lower limits) | | Cooling | Approximately -15 to 43°C | | |
| | | Heating | Approximately -15 to 24°C | | |
| Indoor units that can be used in combination | Number of connected units | 2 units | | 2 to 3 units | 2 to 4 units |
| | Total of indoor Units (class kW) | 6.0kW | 7.0kW | 8.5kW | 12.5kW |
| Total length for all rooms | | Max. 30m | | Max. 40m | Max. 70m |
| Length for one indoor unit | | Max. 25m | | | |
| Difference in height between indoor and outdoor units | When indoor unit is above outdoor unit (A) | Max. 15m | | Max. 20m | |
| | When indoor unit is below outdoor unit (B) | Max. 15m | | Max. 20m | |
| Difference in height between indoor units (C) | | Max. 25m | | | |
| Compressor stop/start frequency | 1 cycle time | 6 min or more (from stop to stop or from start to start) | | | |
| | Stop time | 3 min or more | | | |
| Power source voltage | Voltage fluctuation | Within $\pm 10\%$ of rated voltage | | | |
| | Voltage drop during start | Within $\pm 15\%$ of rated voltage | | | |
| | Interval unbalance | Within $\pm 3\%$ of rated voltage | | | |



8. TABLE OF INDOOR UNIT COMBINATIONS

- The combinations of the indoor units is indicated by numbers. They are read as follows.

(Example) SRK20ZJX-S→20 SRK25ZJX-S→25

- The capacity of the indoor units is shown by rooms. If this exceeds the maximum capacity of the outdoor unit, the demand

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

- If units are to be combined, use the table below to make the proper selection.

• Number of connectable indoor units

| | SCM40ZJ-S | SCM45ZJ-S | SCM50ZJ-S | SCM71ZJ-S |
|-----|-----------|-----------|-----------|-----------|
| MIN | 2 | 2 | 2 | 2 |
| MAX | 2 | 2 | 3 | 4 |

(1) Model SCM40ZJ-S

(a) Indoor unit SRK**ZJX-S models only

<Cooling>

| Indoor unit combination | | Cooling capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room cooling capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 2.0 | - | 1.8 | 2.0 | 2.8 | 490 | 530 | 880 | 2.4 | 2.3 | 2.2 |
| | 25 | 2.5 | - | 1.8 | 2.5 | 3.4 | 490 | 670 | 1040 | 3.1 | 2.9 | 2.8 |
| | 35 | 3.5 | - | 1.8 | 3.5 | 3.9 | 490 | 970 | 1200 | 4.5 | 4.3 | 4.1 |
| 2 room | 20 + 20 | 2.00 | 2.00 | 3.0 | 4.0 | 5.7 | 560 | 840 | 1750 | 3.9 | 3.7 | 3.5 |
| | 20 + 25 | 2.00 | 2.50 | 3.0 | 4.5 | 5.9 | 560 | 1040 | 1900 | 4.8 | 4.6 | 4.4 |
| | 20 + 35 | 1.89 | 3.31 | 3.0 | 5.2 | 5.9 | 560 | 1430 | 1900 | 6.6 | 6.3 | 6.0 |
| | 25 + 25 | 2.50 | 2.50 | 3.0 | 5.0 | 5.9 | 560 | 1280 | 1900 | 5.9 | 5.6 | 5.4 |
| | 25 + 35 | 2.17 | 3.03 | 3.0 | 5.2 | 5.9 | 560 | 1430 | 1900 | 6.6 | 6.3 | 6.0 |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 3.0 | - | 1.4 | 3.0 | 3.7 | 470 | 750 | 1070 | 3.4 | 3.3 | 3.2 |
| | 25 | 3.4 | - | 1.4 | 3.4 | 4.2 | 470 | 920 | 1210 | 4.2 | 4.0 | 3.9 |
| | 35 | 4.5 | - | 1.4 | 4.5 | 5.0 | 470 | 1210 | 1450 | 5.6 | 5.3 | 5.1 |
| 2 room | 20 + 20 | 2.25 | 2.25 | 2.0 | 4.5 | 6.9 | 530 | 900 | 2300 | 4.1 | 4.0 | 3.8 |
| | 20 + 25 | 2.49 | 3.11 | 2.0 | 5.6 | 6.9 | 530 | 1200 | 2300 | 5.5 | 5.3 | 5.1 |
| | 20 + 35 | 2.11 | 3.69 | 2.0 | 5.8 | 6.9 | 530 | 1290 | 2300 | 5.9 | 5.7 | 5.4 |
| | 25 + 25 | 2.90 | 2.90 | 2.0 | 5.8 | 6.9 | 530 | 1290 | 2300 | 5.9 | 5.7 | 5.4 |
| | 25 + 35 | 2.42 | 3.38 | 2.0 | 5.8 | 6.9 | 530 | 1290 | 2300 | 5.9 | 5.7 | 5.4 |

(b) Indoor unit except SRK**ZJX-S models

<Cooling>

| Indoor unit combination | | Cooling capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room cooling capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 2.0 | - | 1.8 | 2.0 | 2.7 | 490 | 560 | 880 | 2.6 | 2.5 | 2.4 |
| | 25 | 2.5 | - | 1.8 | 2.5 | 3.2 | 490 | 710 | 1040 | 3.3 | 3.1 | 3.0 |
| | 35 | 3.5 | - | 1.8 | 3.5 | 3.7 | 490 | 1030 | 1200 | 4.7 | 4.5 | 4.3 |
| 2 room | 20 + 20 | 2.00 | 2.00 | 3.0 | 4.0 | 5.6 | 560 | 880 | 1750 | 4.0 | 3.9 | 3.7 |
| | 20 + 25 | 2.00 | 2.50 | 3.0 | 4.5 | 5.8 | 560 | 1090 | 1900 | 5.0 | 4.8 | 4.6 |
| | 20 + 35 | 1.89 | 3.31 | 3.0 | 5.2 | 5.8 | 560 | 1500 | 1900 | 6.9 | 6.6 | 6.3 |
| | 25 + 25 | 2.50 | 2.50 | 3.0 | 5.0 | 5.8 | 560 | 1340 | 1900 | 6.2 | 5.9 | 5.6 |
| | 25 + 35 | 2.17 | 3.03 | 3.0 | 5.2 | 5.8 | 560 | 1500 | 1900 | 6.9 | 6.6 | 6.3 |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|--|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | |
| | | | | | | | | | | 1.0 | 3.8 | |
| 1 room | 25 | 3.4 | - | 1.4 | 3.4 | 4.0 | 470 | 1070 | 1210 | 4.9 | 4.7 | 4.5 |
| | 35 | 4.5 | - | 1.4 | 4.5 | 4.8 | 470 | 1340 | 1450 | 6.2 | 5.9 | 5.6 |
| 2 room | 20 + 20 | 2.25 | 2.25 | 2.0 | 4.5 | 6.7 | 530 | 930 | 2300 | 4.3 | 4.1 | 3.9 |
| | 20 + 25 | 2.49 | 3.11 | 2.0 | 5.6 | 6.7 | 530 | 1240 | 2300 | 5.7 | 5.4 | 5.2 |
| | 20 + 35 | 2.11 | 3.69 | 2.0 | 5.8 | 6.7 | 530 | 1330 | 2300 | 6.1 | 5.8 | 5.6 |
| | 25 + 25 | 2.90 | 2.90 | 2.0 | 5.8 | 6.7 | 530 | 1330 | 2300 | 6.1 | 5.8 | 5.6 |
| | 25 + 35 | 2.42 | 3.38 | 2.0 | 5.8 | 6.7 | 530 | 1330 | 2300 | 6.1 | 5.8 | 5.6 |

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(2) Model SCM45ZJ-S

(a) Indoor unit SRK**ZJX-S models only

<Cooling>

| Indoor unit combination | | Cooling capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room cooling capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 2.0 | - | 1.8 | 2.0 | 2.8 | 490 | 530 | 880 | 2.4 | 2.3 | 2.2 |
| | 25 | 2.5 | - | 1.8 | 2.5 | 3.4 | 490 | 670 | 1040 | 3.1 | 2.9 | 2.8 |
| | 35 | 3.5 | - | 1.8 | 3.5 | 3.9 | 490 | 970 | 1200 | 4.5 | 4.3 | 4.1 |
| 2 room | 20 + 20 | 2.00 | 2.00 | 3.0 | 4.0 | 5.7 | 560 | 840 | 1750 | 3.9 | 3.7 | 3.5 |
| | 20 + 25 | 2.00 | 2.50 | 3.0 | 4.5 | 5.9 | 560 | 1040 | 1900 | 4.8 | 4.6 | 4.4 |
| | 20 + 35 | 2.00 | 3.50 | 3.0 | 5.5 | 6.3 | 560 | 1490 | 2110 | 6.8 | 6.5 | 6.3 |
| | 25 + 25 | 2.50 | 2.50 | 3.0 | 5.0 | 6.2 | 560 | 1280 | 2050 | 5.9 | 5.6 | 5.4 |
| | 25 + 35 | 2.42 | 3.38 | 3.0 | 5.8 | 6.4 | 560 | 1740 | 2140 | 8.0 | 7.6 | 7.3 |
| | 35 + 35 | 2.90 | 2.90 | 3.0 | 5.8 | 6.4 | 560 | 1740 | 2140 | 8.0 | 7.6 | 7.3 |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 3.0 | - | 1.4 | 3.0 | 3.7 | 470 | 750 | 1070 | 3.4 | 3.3 | 3.2 |
| | 25 | 3.4 | - | 1.4 | 3.4 | 4.2 | 470 | 920 | 1210 | 4.2 | 4.0 | 3.9 |
| | 35 | 4.5 | - | 1.4 | 4.5 | 5.0 | 470 | 1210 | 1450 | 5.6 | 5.3 | 5.1 |
| 2 room | 20 + 20 | 2.25 | 2.25 | 2.0 | 4.5 | 7.4 | 530 | 900 | 2570 | 4.1 | 4.0 | 3.8 |
| | 20 + 25 | 2.49 | 3.11 | 2.0 | 5.6 | 7.4 | 530 | 1200 | 2570 | 5.5 | 5.3 | 5.1 |
| | 20 + 35 | 2.36 | 4.14 | 2.0 | 6.5 | 7.4 | 530 | 1500 | 2570 | 6.9 | 6.6 | 6.3 |
| | 25 + 25 | 3.25 | 3.25 | 2.0 | 6.5 | 7.4 | 530 | 1500 | 2570 | 6.9 | 6.6 | 6.3 |
| | 25 + 35 | 2.71 | 3.79 | 2.0 | 6.5 | 7.4 | 530 | 1500 | 2570 | 6.9 | 6.6 | 6.3 |
| | 35 + 35 | 3.25 | 3.25 | 2.0 | 6.5 | 7.4 | 530 | 1500 | 2570 | 6.9 | 6.6 | 6.3 |

(b) Indoor unit except SRK**ZJX-S models

<Cooling>

| Indoor unit | | Cooling capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------|---------|--|------|-----|-----|-----|-----------------------|------|------|----------------------|------|-----|
| | | Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | |
| | | | | | | | | | | 30V | 240V | |
| 1 room | 20 | 2.0 | - | 1.8 | 2.0 | 2.7 | 490 | 560 | 880 | 2.6 | 2.5 | 2.4 |
| | 25 | 2.5 | - | 1.8 | 2.5 | 3.2 | 490 | 710 | 1040 | 3.3 | 3.1 | 3.0 |
| | 35 | 3.5 | - | 1.8 | 3.5 | 3.7 | 490 | 1030 | 1200 | 4.7 | 4.5 | 4.3 |
| 2 room | 20 + 20 | 2.00 | 2.00 | 3.0 | 4.0 | 5.6 | 560 | 880 | 1750 | 4.0 | 3.9 | 3.7 |
| | 20 + 25 | 2.00 | 2.50 | 3.0 | 4.5 | 5.8 | 560 | 1090 | 1900 | 5.0 | 4.8 | 4.6 |
| | 20 + 35 | 2.00 | 3.50 | 3.0 | 5.5 | 6.2 | 560 | 1560 | 2110 | 7.2 | 6.9 | 6.6 |
| | 25 + 25 | 2.50 | 2.50 | 3.0 | 5.0 | 6.1 | 560 | 1340 | 2050 | 6.2 | 5.9 | 5.6 |
| | 25 + 35 | 2.42 | 3.38 | 3.0 | 5.8 | 6.3 | 560 | 1820 | 2140 | 8.4 | 8.0 | 7.7 |
| | 35 + 35 | 2.90 | 2.90 | 3.0 | 5.8 | 6.3 | 560 | 1820 | 2140 | 8.4 | 8.0 | 7.7 |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 3.0 | - | 1.4 | 3.0 | 3.5 | 470 | 900 | 1070 | 4.1 | 4.0 | 3.8 |
| | 25 | 3.4 | - | 1.4 | 3.4 | 4.0 | 470 | 1070 | 1210 | 4.9 | 4.7 | 4.5 |
| | 35 | 4.5 | - | 1.4 | 4.5 | 4.8 | 470 | 1340 | 1450 | 6.2 | 5.9 | 5.6 |
| 2 room | 20 + 20 | 2.25 | 2.25 | 2.0 | 4.5 | 7.2 | 530 | 930 | 2570 | 4.3 | 4.1 | 3.9 |
| | 20 + 25 | 2.49 | 3.11 | 2.0 | 5.6 | 7.2 | 530 | 1240 | 2570 | 5.7 | 5.4 | 5.2 |
| | 20 + 35 | 2.36 | 4.14 | 2.0 | 6.5 | 7.2 | 530 | 1550 | 2570 | 7.1 | 6.8 | 6.5 |
| | 25 + 25 | 3.25 | 3.25 | 2.0 | 6.5 | 7.2 | 530 | 1550 | 2570 | 7.1 | 6.8 | 6.5 |
| | 25 + 35 | 2.71 | 3.79 | 2.0 | 6.5 | 7.2 | 530 | 1550 | 2570 | 7.1 | 6.8 | 6.5 |
| | 35 + 35 | 3.25 | 3.25 | 2.0 | 6.5 | 7.2 | 530 | 1550 | 2570 | 7.1 | 6.8 | 6.5 |

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(3) Model SCM50ZJ-S
(a) Indoor unit SRKZJX-S models only**

<Cooling>

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

| | | Cooling capacity (kW) | | | | | | Power consumption (W) | | | Standard current (A) | | |
|---------|--------------|-----------------------|------|------|------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | A | B | C | Min. | Standard | max. | Min. | Standard | max. | 220V | 230V | 240V |
| 1 room | 20 | 2.0 | - | - | 1.8 | 2.0 | 2.8 | 500 | 550 | 900 | 2.5 | 2.4 | 2.3 |
| | 25 | 2.5 | - | - | 1.8 | 2.5 | 3.4 | 500 | 720 | 1070 | 3.3 | 3.2 | 3.0 |
| | 35 | 3.5 | - | - | 1.8 | 3.5 | 3.9 | 500 | 1080 | 1230 | 5.0 | 4.7 | 4.5 |
| | 50 | 5.0 | - | - | 1.8 | 5.0 | 5.5 | 500 | 1700 | 2000 | 7.8 | 7.5 | 7.2 |
| 2 room | 20 + 20 | 2.00 | 2.00 | - | 3.0 | 4.0 | 5.7 | 570 | 910 | 1800 | 4.2 | 4.0 | 3.8 |
| | 20 + 25 | 1.91 | 2.39 | - | 3.0 | 4.3 | 5.9 | 570 | 1070 | 1980 | 4.9 | 4.7 | 4.5 |
| | 20 + 35 | 1.82 | 3.18 | - | 3.0 | 5.0 | 6.2 | 570 | 1430 | 2070 | 6.6 | 6.3 | 6.0 |
| | 20 + 50 | 1.71 | 4.29 | - | 3.0 | 6.0 | 6.5 | 570 | 1960 | 2150 | 9.0 | 8.6 | 8.2 |
| | 25 + 25 | 2.35 | 2.35 | - | 3.0 | 4.7 | 6.2 | 570 | 1270 | 2070 | 5.8 | 5.6 | 5.3 |
| | 25 + 35 | 2.21 | 3.09 | - | 3.0 | 5.3 | 6.5 | 570 | 1600 | 2150 | 7.3 | 7.0 | 6.7 |
| | 25 + 50 | 2.00 | 4.00 | - | 3.0 | 6.0 | 6.5 | 570 | 1960 | 2150 | 9.0 | 8.6 | 8.2 |
| | 35 + 35 | 3.00 | 3.00 | - | 3.0 | 6.0 | 6.5 | 570 | 1960 | 2150 | 9.0 | 8.6 | 8.2 |
| 35 + 50 | 2.47 | 3.53 | - | 3.0 | 6.0 | 6.5 | 570 | 1960 | 2150 | 9.0 | 8.6 | 8.2 | |
| 3 room | 20 + 20 + 20 | 1.67 | 1.67 | 1.67 | 3.4 | 5.0 | 7.1 | 690 | 1080 | 2150 | 5.0 | 4.7 | 4.5 |
| | 20 + 20 + 25 | 1.60 | 1.60 | 2.00 | 3.4 | 5.2 | 7.1 | 690 | 1160 | 2150 | 5.3 | 5.1 | 4.9 |
| | 20 + 20 + 35 | 1.49 | 1.49 | 2.61 | 3.4 | 5.6 | 7.1 | 690 | 1330 | 2150 | 6.1 | 5.8 | 5.6 |
| | 20 + 25 + 25 | 1.54 | 1.93 | 1.93 | 3.4 | 5.4 | 7.1 | 690 | 1260 | 2150 | 5.8 | 5.5 | 5.3 |
| | 20 + 25 + 35 | 1.45 | 1.81 | 2.54 | 3.4 | 5.8 | 7.1 | 690 | 1430 | 2150 | 6.6 | 6.3 | 6.0 |
| | 25 + 25 + 25 | 1.87 | 1.87 | 1.87 | 3.4 | 5.6 | 7.1 | 690 | 1330 | 2150 | 6.1 | 5.8 | 5.6 |
| | 25 + 25 + 35 | 1.76 | 1.76 | 2.47 | 3.4 | 6.0 | 7.1 | 690 | 1490 | 2150 | 6.8 | 6.5 | 6.3 |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|--------------|----------------------------|------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | C | Min. | Standard | max. | | | | | | |
| 1 room | 20 | 3.0 | - | - | 1.4 | 3.0 | 3.7 | 480 | 820 | 1100 | 3.8 | 3.6 | 3.5 |
| | 25 | 3.4 | - | - | 1.4 | 3.4 | 4.2 | 480 | 980 | 1240 | 4.5 | 4.3 | 4.1 |
| | 35 | 4.5 | - | - | 1.4 | 4.5 | 5.0 | 480 | 1280 | 1490 | 5.9 | 5.6 | 5.4 |
| | 50 | 5.8 | - | - | 1.4 | 5.8 | 6.2 | 480 | 1740 | 2260 | 8.0 | 7.6 | 7.3 |
| 2 room | 20 + 20 | 2.95 | 2.95 | - | 2.0 | 5.9 | 7.3 | 540 | 1480 | 2580 | 6.8 | 6.5 | 6.2 |
| | 20 + 25 | 2.67 | 3.33 | - | 2.0 | 6.0 | 7.3 | 540 | 1530 | 2580 | 7.0 | 6.7 | 6.4 |
| | 20 + 35 | 2.29 | 4.01 | - | 2.0 | 6.3 | 7.3 | 540 | 1620 | 2580 | 7.4 | 7.1 | 6.8 |
| | 20 + 50 | 1.89 | 4.71 | - | 2.0 | 6.6 | 7.3 | 540 | 1710 | 2580 | 7.9 | 7.5 | 7.2 |
| | 25 + 25 | 3.05 | 3.05 | - | 2.0 | 6.1 | 7.3 | 540 | 1560 | 2580 | 7.2 | 6.9 | 6.6 |
| | 25 + 35 | 2.67 | 3.73 | - | 2.0 | 6.4 | 7.3 | 540 | 1650 | 2580 | 7.6 | 7.2 | 6.9 |
| | 25 + 50 | 2.20 | 4.40 | - | 2.0 | 6.6 | 7.3 | 540 | 1710 | 2580 | 7.9 | 7.5 | 7.2 |
| | 35 + 35 | 3.30 | 3.30 | - | 2.0 | 6.6 | 7.3 | 540 | 1710 | 2580 | 7.9 | 7.5 | 7.2 |
| 35 + 50 | 2.72 | 3.88 | - | 2.0 | 6.6 | 7.3 | 540 | 1710 | 2580 | 7.9 | 7.5 | 7.2 | |
| 3 room | 20 + 20 + 20 | 2.00 | 2.00 | 2.00 | 3.0 | 6.0 | 7.5 | 600 | 1310 | 2580 | 6.0 | 5.8 | 5.5 |
| | 20 + 20 + 25 | 1.91 | 1.91 | 2.38 | 3.0 | 6.2 | 7.5 | 600 | 1400 | 2580 | 6.4 | 6.1 | 5.9 |
| | 20 + 20 + 35 | 1.76 | 1.76 | 3.08 | 3.0 | 6.6 | 7.5 | 600 | 1560 | 2580 | 7.2 | 6.9 | 6.6 |
| | 20 + 25 + 25 | 1.83 | 2.29 | 2.29 | 3.0 | 6.4 | 7.5 | 600 | 1470 | 2580 | 6.7 | 6.5 | 6.2 |
| | 20 + 25 + 35 | 1.70 | 2.13 | 2.98 | 3.0 | 6.8 | 7.5 | 600 | 1620 | 2580 | 7.4 | 7.1 | 6.8 |
| | 25 + 25 + 25 | 2.20 | 2.20 | 2.20 | 3.0 | 6.6 | 7.5 | 600 | 1560 | 2580 | 7.2 | 6.9 | 6.6 |
| | 25 + 25 + 35 | 2.06 | 2.06 | 2.88 | 3.0 | 7.0 | 7.5 | 600 | 1690 | 2580 | 7.8 | 7.4 | 7.1 |

ESP-PR-1040

(b) Indoor unit except SRK**ZJX-S models only

<Cooling>

| Indoor unit | | Cooling capacity (kW) | | | | | | Power consumption (W) | | | Standard current (A) | | |
|--|--------------|-----------------------|------|------|------|----------|------|-----------------------|----------|------|----------------------|------|-----|
| | | A | B | C | Min. | Standard | max. | Min. | Standard | Max. | 230V | 240V | |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | | |
| 1 room | 20 | 2.0 | - | - | 1.8 | 2.0 | 2.7 | 500 | 580 | 900 | 2.7 | 2.5 | 2.4 |
| | 25 | 2.5 | - | - | 1.8 | 2.5 | 3.2 | 500 | 760 | 1070 | 3.5 | 3.3 | 3.2 |
| | 35 | 3.5 | - | - | 1.8 | 3.5 | 3.7 | 500 | 1140 | 1230 | 5.2 | 5.0 | 4.8 |
| | 50 | 5.0 | - | - | 1.8 | 5.0 | 5.3 | 500 | 1790 | 2000 | 8.2 | 7.9 | 7.5 |
| 2 room | 20 + 20 | 2.00 | 2.00 | - | 3.0 | 4.0 | 5.6 | 570 | 950 | 1800 | 4.4 | 4.2 | 4.0 |
| | 20 + 25 | 1.91 | 2.39 | - | 3.0 | 4.3 | 5.8 | 570 | 1110 | 1980 | 5.1 | 4.9 | 4.7 |
| | 20 + 35 | 1.82 | 3.18 | - | 3.0 | 5.0 | 6.1 | 570 | 1490 | 2070 | 6.8 | 6.5 | 6.3 |
| | 20 + 50 | 1.71 | 4.29 | - | 3.0 | 6.0 | 6.3 | 570 | 2040 | 2150 | 9.4 | 9.0 | 8.6 |
| | 25 + 25 | 2.35 | 2.35 | - | 3.0 | 4.7 | 6.1 | 570 | 1320 | 2070 | 6.1 | 5.8 | 5.6 |
| | 25 + 35 | 2.21 | 3.09 | - | 3.0 | 5.3 | 6.3 | 570 | 1660 | 2150 | 7.6 | 7.3 | 7.0 |
| | 25 + 50 | 2.00 | 4.00 | - | 3.0 | 6.0 | 6.3 | 570 | 2040 | 2150 | 9.4 | 9.0 | 8.6 |
| | 35 + 35 | 3.00 | 3.00 | - | 3.0 | 6.0 | 6.3 | 570 | 2040 | 2150 | 9.4 | 9.0 | 8.6 |
| 3 room | 20 + 20 + 20 | 1.67 | 1.67 | 1.67 | 3.4 | 5.0 | 6.9 | 690 | 1120 | 2150 | 5.3 | 5.1 | 4.9 |
| | 20 + 20 + 25 | 1.60 | 1.60 | 2.00 | 3.4 | 5.2 | 6.9 | 690 | 1200 | 2150 | 5.7 | 5.4 | 5.2 |
| | 20 + 20 + 35 | 1.49 | 1.49 | 2.61 | 3.4 | 5.6 | 6.9 | 690 | 1370 | 2150 | 6.5 | 6.2 | 5.9 |
| | 20 + 25 + 25 | 1.54 | 1.93 | 1.93 | 3.4 | 5.4 | 6.9 | 690 | 1300 | 2150 | 6.2 | 5.9 | 5.6 |
| | 20 + 25 + 35 | 1.45 | 1.81 | 2.54 | 3.4 | 5.8 | 6.9 | 690 | 1470 | 2150 | 7.0 | 6.7 | 6.4 |
| | 25 + 25 + 25 | 1.87 | 1.87 | 1.87 | 3.4 | 5.6 | 6.9 | 690 | 1370 | 2150 | 6.5 | 6.2 | 5.9 |
| | 25 + 25 + 35 | 1.76 | 1.76 | 2.47 | 3.4 | 6.0 | 6.9 | 690 | 1540 | 2150 | 7.3 | 7.0 | 6.7 |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|--------------|----------------------------|------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | C | Min. | Standard | max. | | | | | | |
| 1 room | 20 | 3.0 | - | - | 1.4 | 3.0 | 3.5 | 480 | 1020 | 1100 | 4.7 | 4.5 | 4.3 |
| | 25 | 3.4 | - | - | 1.4 | 3.4 | 4.0 | 480 | 1180 | 1240 | 5.4 | 5.2 | 5.0 |
| | 35 | 4.5 | - | - | 1.4 | 4.5 | 4.8 | 480 | 1470 | 1490 | 6.7 | 6.5 | 6.2 |
| | 50 | 5.8 | - | - | 1.4 | 5.8 | 6.0 | 480 | 1910 | 2260 | 8.8 | 8.4 | 8.0 |
| 2 room | 20 + 20 | 2.95 | 2.95 | - | 2.0 | 5.9 | 7.0 | 540 | 1510 | 2580 | 6.9 | 6.6 | 6.4 |
| | 20 + 25 | 2.67 | 3.33 | - | 2.0 | 6.0 | 7.0 | 540 | 1560 | 2580 | 7.2 | 6.9 | 6.6 |
| | 20 + 35 | 2.29 | 4.01 | - | 2.0 | 6.3 | 7.0 | 540 | 1650 | 2580 | 7.6 | 7.2 | 6.9 |
| | 20 + 50 | 1.89 | 4.71 | - | 2.0 | 6.6 | 7.0 | 540 | 1740 | 2580 | 8.0 | 7.6 | 7.3 |
| | 25 + 25 | 3.05 | 3.05 | - | 2.0 | 6.1 | 7.0 | 540 | 1590 | 2580 | 7.3 | 7.0 | 6.7 |
| | 25 + 35 | 2.67 | 3.73 | - | 2.0 | 6.4 | 7.0 | 540 | 1680 | 2580 | 7.7 | 7.4 | 7.1 |
| | 25 + 50 | 2.20 | 4.40 | - | 2.0 | 6.6 | 7.0 | 540 | 1740 | 2580 | 8.0 | 7.6 | 7.3 |
| | 35 + 35 | 3.30 | 3.30 | - | 2.0 | 6.6 | 7.0 | 540 | 1740 | 2580 | 8.0 | 7.6 | 7.3 |
| 3 room | 20 + 20 + 20 | 2.00 | 2.00 | 2.00 | 3.0 | 6.0 | 7.3 | 600 | 1340 | 2580 | 6.3 | 6.1 | 5.8 |
| | 20 + 20 + 25 | 1.91 | 1.91 | 2.38 | 3.0 | 6.2 | 7.3 | 600 | 1430 | 2580 | 6.8 | 6.5 | 6.2 |
| | 20 + 20 + 35 | 1.76 | 1.76 | 3.08 | 3.0 | 6.6 | 7.3 | 600 | 1600 | 2580 | 7.6 | 7.2 | 6.9 |
| | 20 + 25 + 25 | 1.83 | 2.29 | 2.29 | 3.0 | 6.4 | 7.3 | 600 | 1510 | 2580 | 7.1 | 6.8 | 6.6 |
| | 20 + 25 + 35 | 1.70 | 2.13 | 2.98 | 3.0 | 6.8 | 7.3 | 600 | 1660 | 2580 | 7.9 | 7.5 | 7.2 |
| | 25 + 25 + 25 | 2.20 | 2.20 | 2.20 | 3.0 | 6.6 | 7.3 | 600 | 1600 | 2580 | 7.6 | 7.2 | 6.9 |
| | 25 + 25 + 35 | 2.06 | 2.06 | 2.88 | 3.0 | 7.0 | 7.3 | 600 | 1730 | 2580 | 8.2 | 7.8 | 7.5 |

ESP-PR-1040

(4) Model SCM71ZJ-S
(a) Indoor unit SRK**ZJX-S models only

<Cooling>

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>

| | | Cooling capacity (kW) | | | | | | | Power consumption (W) | | | Standard current (A) | | |
|--------------|--------------|-----------------------|------|------|-----|------|----------|------|-----------------------|------|------|----------------------|------|-----|
| | | A | B | C | D | Min. | Standard | Max. | | | | 230V | 240V | |
| 1 room | 20 | 2.0 | - | - | - | 1.8 | 2.0 | 2.8 | 480 | 500 | 950 | 2.3 | 2.2 | 2.1 |
| | 25 | 2.5 | - | - | - | 1.8 | 2.5 | 3.4 | 480 | 680 | 1080 | 3.1 | 3.0 | 2.9 |
| | 35 | 3.5 | - | - | - | 1.8 | 3.5 | 3.9 | 480 | 1010 | 1240 | 4.6 | 4.4 | 4.3 |
| | 50 | 5.0 | - | - | - | 1.8 | 5.0 | 6.1 | 480 | 1530 | 2100 | 7.0 | 6.7 | 6.4 |
| | 60 | 6.0 | - | - | - | 1.8 | 6.0 | 7.0 | 480 | 1880 | 2700 | 8.6 | 8.3 | 7.9 |
| 2 room | 20 + 20 | 2.00 | 2.00 | - | - | 3.0 | 4.0 | 6.1 | 550 | 850 | 1910 | 3.9 | 3.7 | 3.6 |
| | 20 + 25 | 2.00 | 2.50 | - | - | 3.0 | 4.5 | 6.4 | 550 | 1070 | 2060 | 4.9 | 4.7 | 4.5 |
| | 20 + 35 | 2.00 | 3.50 | - | - | 3.0 | 5.5 | 6.9 | 550 | 1470 | 2320 | 6.7 | 6.5 | 6.2 |
| | 20 + 50 | 1.94 | 4.86 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 20 + 60 | 1.70 | 5.10 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 25 + 25 | 2.50 | 2.50 | - | - | 3.0 | 5.0 | 6.8 | 550 | 1250 | 2270 | 5.7 | 5.5 | 5.3 |
| | 25 + 35 | 2.46 | 3.44 | - | - | 3.0 | 5.9 | 7.2 | 550 | 1660 | 2470 | 7.6 | 7.3 | 7.0 |
| | 25 + 50 | 2.27 | 4.53 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 25 + 60 | 2.00 | 4.80 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 35 + 35 | 3.40 | 3.40 | - | - | 3.0 | 6.8 | 7.6 | 550 | 2030 | 2680 | 9.3 | 8.9 | 8.5 |
| | 35 + 50 | 2.80 | 4.00 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 35 + 60 | 2.51 | 4.29 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 50 + 50 | 3.40 | 3.40 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| | 50 + 60 | 3.09 | 3.71 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 |
| 60 + 60 | 3.40 | 3.40 | - | - | 3.0 | 6.8 | 7.7 | 550 | 2030 | 2750 | 9.3 | 8.9 | 8.5 | |
| 3 room | 20 + 20 + 20 | 2.00 | 2.00 | 2.00 | - | 3.7 | 6.0 | 8.2 | 670 | 1380 | 2750 | 6.3 | 6.1 | 5.8 |
| | 20 + 20 + 25 | 2.00 | 2.00 | 2.50 | - | 3.7 | 6.5 | 8.2 | 670 | 1560 | 2750 | 7.2 | 6.9 | 6.6 |
| | 20 + 20 + 35 | 1.84 | 1.84 | 3.22 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 20 + 50 | 1.53 | 1.53 | 3.83 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 20 + 60 | 1.38 | 1.38 | 4.14 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 25 + 25 | 1.94 | 2.43 | 2.43 | - | 3.7 | 6.8 | 8.2 | 670 | 1740 | 2750 | 8.0 | 7.6 | 7.3 |
| | 20 + 25 + 35 | 1.73 | 2.16 | 3.02 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 25 + 50 | 1.45 | 1.82 | 3.63 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 25 + 60 | 1.31 | 1.64 | 3.94 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 35 + 35 | 1.53 | 2.68 | 2.68 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 35 + 50 | 1.31 | 2.30 | 3.29 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 35 + 60 | 1.20 | 2.10 | 3.60 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 50 + 50 | 1.15 | 2.88 | 2.88 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 25 + 25 | 2.30 | 2.30 | 2.30 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 25 + 35 | 2.03 | 2.03 | 2.84 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 25 + 50 | 1.73 | 1.73 | 3.45 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 25 + 60 | 1.57 | 1.57 | 3.76 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 35 + 35 | 1.82 | 2.54 | 2.54 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 35 + 50 | 1.57 | 2.20 | 3.14 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 35 + 60 | 1.44 | 2.01 | 3.45 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| | 25 + 50 + 50 | 1.38 | 2.76 | 2.76 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 |
| 35 + 35 + 35 | 2.30 | 2.30 | 2.30 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 | |
| 35 + 35 + 50 | 2.01 | 2.01 | 2.88 | - | 3.7 | 6.9 | 8.2 | 670 | 1830 | 2750 | 8.4 | 8.0 | 7.7 | |

<Cooling>


| Indoor unit combination | | Cooling capacity (kW) | | | | | | | Power consumption (W) | | | Standard current (A) | | | |
|--|-------------------|----------------------------|------|------|------|---------------------|-----|-----|-----------------------|----------|------|----------------------|------|------|--|
| | | Room cooling capacity (kW) | | | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V | |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | | 7.5 | 7.2 | |
| 4 room | 20 + 20 + 20 + 25 | 1.62 | 1.62 | 1.62 | 2.03 | 4.4 | 6.9 | 8.8 | 890 | 1700 | 2750 | 7.8 | 7.5 | 7.2 | |
| | 20 + 20 + 20 + 35 | 1.49 | 1.49 | 1.49 | 2.62 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 20 + 50 | 1.29 | 1.29 | 1.29 | 3.23 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 20 + 60 | 1.18 | 1.18 | 1.18 | 3.55 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 25 + 25 | 1.53 | 1.53 | 1.92 | 1.92 | 4.4 | 6.9 | 8.8 | 890 | 1700 | 2750 | 7.8 | 7.5 | 7.2 | |
| | 20 + 20 + 25 + 35 | 1.42 | 1.42 | 1.78 | 2.49 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 25 + 50 | 1.23 | 1.23 | 1.54 | 3.09 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 25 + 60 | 1.14 | 1.14 | 1.42 | 3.41 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 35 + 35 | 1.29 | 1.29 | 2.26 | 2.26 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 20 + 35 + 50 | 1.14 | 1.14 | 1.99 | 2.84 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 25 + 25 + 25 | 1.49 | 1.87 | 1.87 | 1.87 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 25 + 25 + 35 | 1.35 | 1.69 | 1.69 | 2.37 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 25 + 25 + 50 | 1.18 | 1.48 | 1.48 | 2.96 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 25 + 35 + 35 | 1.23 | 1.54 | 2.16 | 2.16 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 20 + 35 + 35 + 35 | 1.14 | 1.99 | 1.99 | 1.99 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| | 25 + 25 + 25 + 25 | 1.78 | 1.78 | 1.78 | 1.78 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | |
| 25 + 25 + 25 + 35 | 1.61 | 1.61 | 1.61 | 2.26 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | | |
| 25 + 25 + 25 + 50 | 1.42 | 1.42 | 1.42 | 2.84 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | | |
| 25 + 25 + 35 + 35 | 1.48 | 1.48 | 2.07 | 2.07 | 4.4 | 7.1 | 8.8 | 890 | 1740 | 2750 | 8.0 | 7.6 | 7.3 | | |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---|-----|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | C | D | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 3.0 | - | - | - | 1.5 | 3.0 | 3.7 | 600 | 840 | 1330 | 3.9 | 3.7 | 3.5 |
| | 25 | 3.4 | - | - | - | 1.5 | 3.4 | 4.2 | 600 | 1000 | 1510 | 4.6 | 4.4 | 4.2 |
| | 35 | 4.5 | - | - | - | 1.5 | 4.5 | 5.0 | 600 | 1330 | 1790 | 6.1 | 5.8 | 5.6 |
| | 50 | 5.8 | - | - | - | 1.5 | 5.8 | 6.5 | 600 | 1780 | 2310 | 8.2 | 7.8 | 7.5 |
| | 60 | 6.8 | - | - | - | 1.5 | 6.8 | 7.5 | 600 | 2100 | 2660 | 9.6 | 9.2 | 8.8 |
| 2 room | 20 + 20 | 2.70 | 2.70 | - | - | 2.1 | 5.4 | 7.4 | 630 | 1340 | 1870 | 6.2 | 5.9 | 5.6 |
| | 20 + 25 | 2.62 | 3.28 | - | - | 2.1 | 5.9 | 7.7 | 630 | 1530 | 2130 | 7.0 | 6.7 | 6.4 |
| | 20 + 35 | 2.51 | 4.39 | - | - | 2.1 | 6.9 | 8.3 | 630 | 1910 | 2650 | 8.8 | 8.4 | 8.0 |
| | 20 + 50 | 2.34 | 5.86 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 20 + 60 | 2.05 | 6.15 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 25 + 25 | 3.20 | 3.20 | - | - | 2.1 | 6.4 | 8.1 | 630 | 1700 | 2480 | 7.8 | 7.5 | 7.2 |
| | 25 + 35 | 3.08 | 4.32 | - | - | 2.1 | 7.4 | 8.6 | 630 | 2090 | 2910 | 9.6 | 9.2 | 8.8 |
| | 25 + 50 | 2.73 | 5.47 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 25 + 60 | 2.41 | 5.79 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 35 + 35 | 4.10 | 4.10 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 35 + 50 | 3.38 | 4.82 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 35 + 60 | 3.02 | 5.18 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| | 50 + 50 | 4.10 | 4.10 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 |
| 50 + 60 | 3.73 | 4.47 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 | |
| 60 + 60 | 4.10 | 4.10 | - | - | 2.1 | 8.2 | 8.7 | 630 | 2430 | 3350 | 11.2 | 10.7 | 10.2 | |

<Heating>

| Indoor unit combination | Heating capacity (kW) | | | | | | | | Power consumption (W) | | | Standard current (A) | | | |
|--|----------------------------|------|------|------|---------------------|-----|-----|-----|-----------------------|----------|------|----------------------|------|------|--|
| | Room heating capacity (kW) | | | | Total capacity (kW) | | | | Min. | Standard | Max. | 220V | 230V | 240V | |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | | 8.0 | 7.7 | |
| 3 room | 20 + 20 + 20 | 2.40 | 2.40 | 3.60 | - | 3.2 | 8.4 | 9.1 | 660 | 1980 | 3350 | 9.5 | 8.5 | 8.1 | |
| | 20 + 20 + 35 | 2.24 | 2.24 | 3.92 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 20 + 50 | 1.87 | 1.87 | 4.67 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 20 + 60 | 1.68 | 1.68 | 5.04 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 25 + 25 | 2.34 | 2.93 | 2.93 | - | 3.2 | 8.2 | 9.1 | 660 | 1990 | 3350 | 9.1 | 8.7 | 8.4 | |
| | 20 + 25 + 35 | 2.10 | 2.63 | 3.68 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 25 + 50 | 1.77 | 2.21 | 4.42 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 25 + 60 | 1.60 | 2.00 | 4.80 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 35 + 35 | 1.87 | 3.27 | 3.27 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 35 + 50 | 1.60 | 2.80 | 4.00 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 35 + 60 | 1.46 | 2.56 | 4.38 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 20 + 50 + 50 | 1.40 | 3.50 | 3.50 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 25 + 25 + 25 | 2.80 | 2.80 | 2.80 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 25 + 25 + 35 | 2.47 | 2.47 | 3.46 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 25 + 25 + 50 | 2.10 | 2.10 | 4.20 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 25 + 25 + 60 | 1.91 | 1.91 | 4.58 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 25 + 35 + 35 | 2.21 | 3.09 | 3.09 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| | 25 + 35 + 50 | 1.91 | 2.67 | 3.82 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | |
| 25 + 35 + 60 | 1.75 | 2.45 | 4.20 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | | |
| 25 + 50 + 50 | 1.68 | 3.36 | 3.36 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | | |
| 35 + 35 + 35 | 2.80 | 2.80 | 2.80 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | | |
| 35 + 35 + 50 | 2.45 | 2.45 | 3.50 | - | 3.2 | 8.4 | 9.1 | 660 | 2060 | 3350 | 9.5 | 9.0 | 8.7 | | |
| 4 room | 20 + 20 + 20 + 20 | 2.10 | 2.10 | 2.10 | 2.10 | 3.6 | 8.4 | 9.4 | 800 | 1960 | 3350 | 9.0 | 8.6 | 8.2 | |
| | 20 + 20 + 20 + 25 | 1.98 | 1.98 | 1.98 | 2.47 | 3.6 | 8.4 | 9.4 | 800 | 1960 | 3350 | 9.0 | 8.6 | 8.2 | |
| | 20 + 20 + 20 + 35 | 1.79 | 1.79 | 1.79 | 3.13 | 3.6 | 8.5 | 9.4 | 800 | 1980 | 3350 | 9.1 | 8.7 | 8.3 | |
| | 20 + 20 + 20 + 50 | 1.56 | 1.56 | 1.56 | 3.91 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 20 + 20 + 60 | 1.43 | 1.43 | 1.43 | 4.30 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 20 + 25 + 25 | 1.89 | 1.89 | 2.36 | 2.36 | 3.6 | 8.5 | 9.4 | 800 | 1980 | 3350 | 9.1 | 8.7 | 8.3 | |
| | 20 + 20 + 25 + 35 | 1.70 | 1.70 | 2.13 | 2.98 | 3.6 | 8.5 | 9.4 | 800 | 1980 | 3350 | 9.1 | 8.7 | 8.3 | |
| | 20 + 20 + 25 + 50 | 1.50 | 1.50 | 1.87 | 3.74 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 20 + 25 + 60 | 1.38 | 1.38 | 1.72 | 4.13 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 20 + 35 + 35 | 1.56 | 1.56 | 2.74 | 2.74 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 20 + 35 + 50 | 1.38 | 1.38 | 2.41 | 3.44 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 25 + 25 + 25 | 1.79 | 2.24 | 2.24 | 2.24 | 3.6 | 8.5 | 9.4 | 800 | 1980 | 3350 | 9.1 | 8.7 | 8.3 | |
| | 20 + 25 + 25 + 35 | 1.64 | 2.05 | 2.05 | 2.87 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 25 + 25 + 50 | 1.43 | 1.79 | 1.79 | 3.58 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 25 + 35 + 35 | 1.50 | 1.87 | 2.62 | 2.62 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 20 + 35 + 35 + 35 | 1.38 | 2.41 | 2.41 | 2.41 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| | 25 + 25 + 25 + 25 | 2.13 | 2.13 | 2.13 | 2.13 | 3.6 | 8.5 | 9.4 | 800 | 1980 | 3350 | 9.1 | 8.7 | 8.3 | |
| | 25 + 25 + 25 + 35 | 1.95 | 1.95 | 1.95 | 2.74 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | |
| 25 + 25 + 25 + 50 | 1.72 | 1.72 | 1.72 | 3.44 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | | |
| 25 + 25 + 35 + 35 | 1.79 | 1.79 | 2.51 | 2.51 | 3.6 | 8.6 | 9.4 | 800 | 2000 | 3350 | 9.2 | 8.8 | 8.4 | | |

ESP-PR-1036 

(b) Indoor unit except SRK**ZJX-S models only

<Cooling>

| Indoor unit | | Cooling capacity (kW) | | | | | | Power consumption (W) | | | Standard current (A) | | | |
|--------------|--------------|--|------|------|-----|-----|-----|-----------------------|------|------|----------------------|-----|------|------|
| | | Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | |
| | | | | | | | | | | | | | 230V | 240V |
| 1 room | 20 | 2.0 | - | - | - | 1.8 | 2.0 | 2.7 | 480 | 530 | 950 | 2.4 | 2.3 | 2.2 |
| | 25 | 2.5 | - | - | - | 1.8 | 2.5 | 3.2 | 480 | 730 | 1080 | 3.4 | 3.2 | 3.1 |
| | 35 | 3.5 | - | - | - | 1.8 | 3.5 | 3.7 | 480 | 1120 | 1240 | 5.1 | 4.9 | 4.7 |
| | 50 | 5.0 | - | - | - | 1.8 | 5.0 | 5.8 | 480 | 1710 | 2100 | 7.9 | 7.5 | 7.2 |
| | 60 | 6.0 | - | - | - | 1.8 | 6.0 | 6.7 | 480 | 2140 | 2700 | 9.8 | 9.4 | 9.0 |
| 2 room | 20 + 20 | 2.00 | 2.00 | - | - | 3.0 | 4.0 | 5.8 | 550 | 930 | 1910 | 4.3 | 4.1 | 3.9 |
| | 20 + 25 | 2.00 | 2.50 | - | - | 3.0 | 4.5 | 6.1 | 550 | 1170 | 2060 | 5.4 | 5.1 | 4.9 |
| | 20 + 35 | 2.00 | 3.50 | - | - | 3.0 | 5.5 | 6.6 | 550 | 1590 | 2320 | 7.3 | 7.0 | 6.7 |
| | 20 + 50 | 1.94 | 4.86 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| | 20 + 60 | 1.70 | 5.10 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| | 25 + 25 | 2.50 | 2.50 | - | - | 3.0 | 5.0 | 6.5 | 550 | 1360 | 2270 | 6.2 | 6.0 | 5.7 |
| | 25 + 35 | 2.46 | 3.44 | - | - | 3.0 | 5.9 | 6.8 | 550 | 1780 | 2470 | 8.2 | 7.8 | 7.5 |
| | 25 + 50 | 2.27 | 4.53 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| | 25 + 60 | 2.00 | 4.80 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| | 35 + 35 | 3.40 | 3.40 | - | - | 3.0 | 6.8 | 7.2 | 550 | 2150 | 2680 | 9.9 | 9.4 | 9.0 |
| | 35 + 50 | 2.80 | 4.00 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| | 35 + 60 | 2.51 | 4.29 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| | 50 + 50 | 3.40 | 3.40 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 |
| 50 + 60 | 3.09 | 3.71 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 | |
| 60 + 60 | 3.40 | 3.40 | - | - | 3.0 | 6.8 | 7.3 | 550 | 2150 | 2750 | 9.9 | 9.4 | 9.0 | |
| 3 room | 20 + 20 + 20 | 2.00 | 2.00 | 2.00 | - | 3.7 | 6.0 | 7.8 | 670 | 1450 | 2750 | 6.7 | 6.4 | 6.1 |
| | 20 + 20 + 25 | 2.00 | 2.00 | 2.50 | - | 3.7 | 6.5 | 7.8 | 670 | 1630 | 2750 | 7.5 | 7.2 | 6.9 |
| | 20 + 20 + 35 | 1.84 | 1.84 | 3.22 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 20 + 50 | 1.53 | 1.53 | 3.83 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 20 + 60 | 1.38 | 1.38 | 4.14 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 25 + 25 | 1.94 | 2.43 | 2.43 | - | 3.7 | 6.8 | 7.8 | 670 | 1820 | 2750 | 8.4 | 8.0 | 7.7 |
| | 20 + 25 + 35 | 1.73 | 2.16 | 3.02 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 25 + 50 | 1.45 | 1.82 | 3.63 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 25 + 60 | 1.31 | 1.64 | 3.94 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 35 + 35 | 1.53 | 2.68 | 2.68 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 35 + 50 | 1.31 | 2.30 | 3.29 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 35 + 60 | 1.20 | 2.10 | 3.60 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 20 + 50 + 50 | 1.15 | 2.88 | 2.88 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 25 + 25 | 2.30 | 2.30 | 2.30 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 25 + 35 | 2.03 | 2.03 | 2.84 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 25 + 50 | 1.73 | 1.73 | 3.45 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 25 + 60 | 1.57 | 1.57 | 3.76 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 35 + 35 | 1.82 | 2.54 | 2.54 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 35 + 50 | 1.57 | 2.20 | 3.14 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| | 25 + 35 + 60 | 1.44 | 2.01 | 3.45 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 |
| 25 + 50 + 50 | 1.38 | 2.76 | 2.76 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 | |
| 35 + 35 + 35 | 2.30 | 2.30 | 2.30 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 | |
| 35 + 35 + 50 | 2.01 | 2.01 | 2.88 | - | 3.7 | 6.9 | 7.8 | 670 | 1910 | 2750 | 8.8 | 8.4 | 8.0 | |

<Cooling>


| Indoor unit combination | | Cooling capacity (kW) | | | | | | | Power consumption (W) | | | Standard current (A) | | |
|--|-------------------|----------------------------|------|------|------|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room cooling capacity (kW) | | | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | C | D | Min. | Standard | Max. | | | | | | |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | | 7.7 | 7.4 |
| 4 room | 20 + 20 + 20 + 25 | 1.62 | 1.62 | 1.62 | 2.03 | 4.4 | 6.9 | 8.3 | 890 | 1750 | 2750 | 8.0 | 7.7 | 7.4 |
| | 20 + 20 + 20 + 35 | 1.49 | 1.49 | 1.49 | 2.62 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 20 + 50 | 1.29 | 1.29 | 1.29 | 3.23 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 20 + 60 | 1.18 | 1.18 | 1.18 | 3.55 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 25 + 25 | 1.53 | 1.53 | 1.92 | 1.92 | 4.4 | 6.9 | 8.3 | 890 | 1750 | 2750 | 8.0 | 7.7 | 7.4 |
| | 20 + 20 + 25 + 35 | 1.42 | 1.42 | 1.78 | 2.49 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 25 + 50 | 1.23 | 1.23 | 1.54 | 3.09 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 25 + 60 | 1.14 | 1.14 | 1.42 | 3.41 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 35 + 35 | 1.29 | 1.29 | 2.26 | 2.26 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 20 + 35 + 50 | 1.14 | 1.14 | 1.99 | 2.84 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 25 + 25 + 25 | 1.49 | 1.87 | 1.87 | 1.87 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 25 + 25 + 35 | 1.35 | 1.69 | 1.69 | 2.37 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 25 + 25 + 50 | 1.18 | 1.48 | 1.48 | 2.96 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 25 + 35 + 35 | 1.23 | 1.54 | 2.16 | 2.16 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 20 + 35 + 35 + 35 | 1.14 | 1.99 | 1.99 | 1.99 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 25 + 25 + 25 + 25 | 1.78 | 1.78 | 1.78 | 1.78 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| | 25 + 25 + 25 + 35 | 1.61 | 1.61 | 1.61 | 2.26 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 |
| 25 + 25 + 25 + 50 | 1.42 | 1.42 | 1.42 | 2.84 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 | |
| 25 + 25 + 35 + 35 | 1.48 | 1.48 | 2.07 | 2.07 | 4.4 | 7.1 | 8.3 | 890 | 1790 | 2750 | 8.2 | 7.9 | 7.5 | |

<Heating>

| Indoor unit combination | | Heating capacity (kW) | | | | | | | Power consumption (W) | | | Standard current (A) | | |
|-------------------------|---------|----------------------------|------|---|-----|---------------------|----------|------|-----------------------|----------|------|----------------------|------|------|
| | | Room heating capacity (kW) | | | | Total capacity (kW) | | | Min. | Standard | Max. | 220V | 230V | 240V |
| | | A | B | C | D | Min. | Standard | Max. | | | | | | |
| 1 room | 20 | 3.0 | - | - | - | 1.5 | 3.0 | 3.5 | 600 | 1060 | 1330 | 4.9 | 4.7 | 4.5 |
| | 25 | 3.4 | - | - | - | 1.5 | 3.4 | 4.0 | 600 | 1220 | 1510 | 5.6 | 5.4 | 5.1 |
| | 35 | 4.5 | - | - | - | 1.5 | 4.5 | 4.8 | 600 | 1510 | 1790 | 6.9 | 6.6 | 6.4 |
| | 50 | 5.8 | - | - | - | 1.5 | 5.8 | 6.2 | 600 | 1950 | 2310 | 9.0 | 8.6 | 8.2 |
| | 60 | 6.8 | - | - | - | 1.5 | 6.8 | 7.1 | 600 | 2240 | 2660 | 10.3 | 9.8 | 9.4 |
| 2 room | 20 + 20 | 2.70 | 2.70 | - | - | 2.1 | 5.4 | 7.0 | 630 | 1370 | 1870 | 6.3 | 6.0 | 5.8 |
| | 20 + 25 | 2.62 | 3.28 | - | - | 2.1 | 5.9 | 7.3 | 630 | 1560 | 2130 | 7.2 | 6.9 | 6.6 |
| | 20 + 35 | 2.51 | 4.39 | - | - | 2.1 | 6.9 | 7.9 | 630 | 1950 | 2650 | 9.0 | 8.6 | 8.2 |
| | 20 + 50 | 2.34 | 5.86 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 20 + 60 | 2.05 | 6.15 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 25 + 25 | 3.20 | 3.20 | - | - | 2.1 | 6.4 | 7.7 | 630 | 1740 | 2480 | 8.0 | 7.6 | 7.3 |
| | 25 + 35 | 3.08 | 4.32 | - | - | 2.1 | 7.4 | 8.2 | 630 | 2130 | 2910 | 9.8 | 9.4 | 9.0 |
| | 25 + 50 | 2.73 | 5.47 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 25 + 60 | 2.41 | 5.79 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 35 + 35 | 4.10 | 4.10 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 35 + 50 | 3.38 | 4.82 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 35 + 60 | 3.02 | 5.18 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 50 + 50 | 4.10 | 4.10 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| | 50 + 60 | 3.73 | 4.47 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 |
| 60 + 60 | 4.10 | 4.10 | - | - | 2.1 | 8.2 | 8.3 | 630 | 2490 | 3350 | 11.4 | 10.9 | 10.5 | |

<Heating>

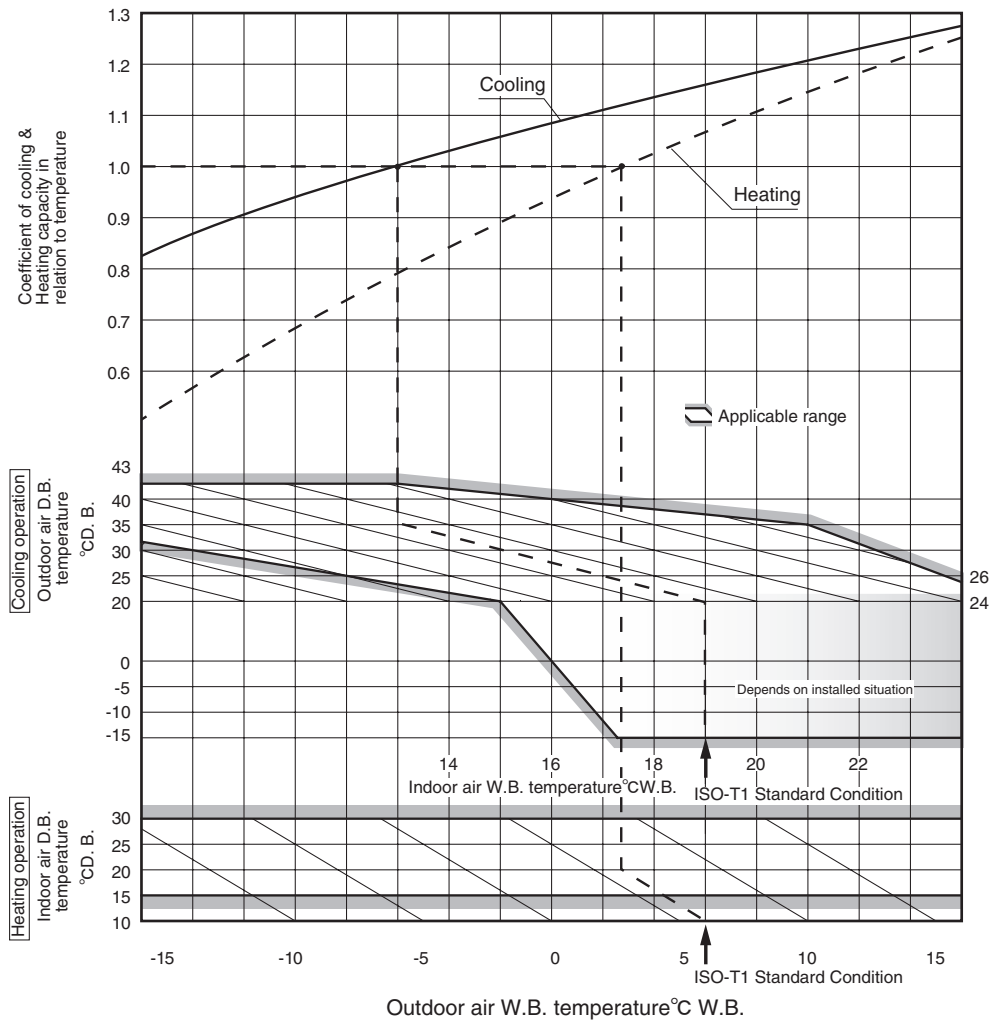
| Indoor unit combination | Heating capacity (kW) | | | | | | | | Power consumption (W) | | | Standard current (A) | | | |
|---|----------------------------|------|------|------|---------------------|-----|-----|-----|-----------------------|----------|------|----------------------|------|------|--|
| | Room heating capacity (kW) | | | | Total capacity (kW) | | | | Min. | Standard | Max. | 220V | 230V | 240V | |
| Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html | | | | | | | | | | | | | 8.2 | 7.9 | |
| 3 room | 20 + 20 + 25 | 2.46 | 2.46 | 3.08 | - | 3.2 | 8.0 | 8.9 | 660 | 1970 | 3350 | 9.0 | 8.7 | 8.3 | |
| | 20 + 20 + 35 | 2.24 | 2.24 | 3.92 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 20 + 50 | 1.87 | 1.87 | 4.67 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 20 + 60 | 1.68 | 1.68 | 5.04 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 25 + 25 | 2.34 | 2.93 | 2.93 | - | 3.2 | 8.2 | 8.9 | 660 | 2030 | 3350 | 9.3 | 8.9 | 8.5 | |
| | 20 + 25 + 35 | 2.10 | 2.63 | 3.68 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 25 + 50 | 1.77 | 2.21 | 4.42 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 25 + 60 | 1.60 | 2.00 | 4.80 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 35 + 35 | 1.87 | 3.27 | 3.27 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 35 + 50 | 1.60 | 2.80 | 4.00 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 35 + 60 | 1.46 | 2.56 | 4.38 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 20 + 50 + 50 | 1.40 | 3.50 | 3.50 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 25 + 25 + 25 | 2.80 | 2.80 | 2.80 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 25 + 25 + 35 | 2.47 | 2.47 | 3.46 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 25 + 25 + 50 | 2.10 | 2.10 | 4.20 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 25 + 25 + 60 | 1.91 | 1.91 | 4.58 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 25 + 35 + 35 | 2.21 | 3.09 | 3.09 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| | 25 + 35 + 50 | 1.91 | 2.67 | 3.82 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | |
| 25 + 35 + 60 | 1.75 | 2.45 | 4.20 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | | |
| 25 + 50 + 50 | 1.68 | 3.36 | 3.36 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | | |
| 35 + 35 + 35 | 2.80 | 2.80 | 2.80 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | | |
| 35 + 35 + 50 | 2.45 | 2.45 | 3.50 | - | 3.2 | 8.4 | 8.9 | 660 | 2100 | 3350 | 9.6 | 9.2 | 8.8 | | |
| 4 room | 20 + 20 + 20 + 20 | 2.10 | 2.10 | 2.10 | 2.10 | 3.6 | 8.4 | 9.1 | 800 | 2010 | 3350 | 9.2 | 8.8 | 8.5 | |
| | 20 + 20 + 20 + 25 | 1.98 | 1.98 | 1.98 | 2.47 | 3.6 | 8.4 | 9.1 | 800 | 2010 | 3350 | 9.2 | 8.8 | 8.5 | |
| | 20 + 20 + 20 + 35 | 1.79 | 1.79 | 1.79 | 3.13 | 3.6 | 8.5 | 9.1 | 800 | 2030 | 3350 | 9.3 | 8.9 | 8.5 | |
| | 20 + 20 + 20 + 50 | 1.56 | 1.56 | 1.56 | 3.91 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 20 + 20 + 60 | 1.43 | 1.43 | 1.43 | 4.30 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 20 + 25 + 25 | 1.89 | 1.89 | 2.36 | 2.36 | 3.6 | 8.5 | 9.1 | 800 | 2030 | 3350 | 9.3 | 8.9 | 8.5 | |
| | 20 + 20 + 25 + 35 | 1.70 | 1.70 | 2.13 | 2.98 | 3.6 | 8.5 | 9.1 | 800 | 2030 | 3350 | 9.3 | 8.9 | 8.5 | |
| | 20 + 20 + 25 + 50 | 1.50 | 1.50 | 1.87 | 3.74 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 20 + 25 + 60 | 1.38 | 1.38 | 1.72 | 4.13 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 20 + 35 + 35 | 1.56 | 1.56 | 2.74 | 2.74 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 20 + 35 + 50 | 1.38 | 1.38 | 2.41 | 3.44 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 25 + 25 + 25 | 1.79 | 2.24 | 2.24 | 2.24 | 3.6 | 8.5 | 9.1 | 800 | 2030 | 3350 | 9.3 | 8.9 | 8.5 | |
| | 20 + 25 + 25 + 35 | 1.64 | 2.05 | 2.05 | 2.87 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 25 + 25 + 50 | 1.43 | 1.79 | 1.79 | 3.58 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 25 + 35 + 35 | 1.50 | 1.87 | 2.62 | 2.62 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 20 + 35 + 35 + 35 | 1.38 | 2.41 | 2.41 | 2.41 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 25 + 25 + 25 + 25 | 2.13 | 2.13 | 2.13 | 2.13 | 3.6 | 8.5 | 9.1 | 800 | 2030 | 3350 | 9.3 | 8.9 | 8.5 | |
| | 25 + 25 + 25 + 35 | 1.95 | 1.95 | 1.95 | 2.74 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 25 + 25 + 25 + 50 | 1.72 | 1.72 | 1.72 | 3.44 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |
| | 25 + 25 + 35 + 35 | 1.79 | 1.79 | 2.51 | 2.51 | 3.6 | 8.6 | 9.1 | 800 | 2050 | 3350 | 9.4 | 9.0 | 8.6 | |

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9. SELECTION CHARTS

Correct the cooling and heating capacity in accordance with the conditions as follows. The net cooling and heating capacity can be obtained in the following way.

Все каталоги и инструкции здесь: <http://splitoff.ru/tehn-doc.html>



(2) Correction of cooling and heating capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling and heating capacity in relation to the one way piping length between the indoor and outdoor units.

| Piping length [m] | 7 | 10 | 15 | 20 | 25 |
|-------------------|-----|------|-------|-------|------|
| Cooling | 1.0 | 0.99 | 0.975 | 0.965 | 0.95 |
| Heating | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

(3) Correction relative to frosting on outdoor heat exchanger during heating

In additions to the foregoing corrections (1), (2) the heating capacity needs to be adjusted also with respect to the frosting on the outdoor heat exchanger.

| Air inlet temperature of outdoor unit in °CWB | -15 | -10 | -9 | -7 | -5 | -3 | -1 | 1 | 3 | 5 or more |
|---|------|------|------|------|------|------|------|------|------|-----------|
| Adjustment coefficient | 0.95 | 0.95 | 0.94 | 0.93 | 0.91 | 0.88 | 0.86 | 0.87 | 0.92 | 1.00 |

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