



technical data

Indoor Units
FCQ-C8VEB

air conditioning systems

R-410A



technical data

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FCQ-C8VEB

air conditioning systems

R-410A

TABLE OF CONTENTS

FCQ-C8VEB

| | | |
|---|---|----|
| 1 | Features | 2 |
| 2 | Specifications | 3 |
| | Technical Specifications | 3 |
| | Electrical Specifications (50Hz) | 4 |
| | Electrical Specifications (60Hz) | 4 |
| 3 | Safety device settings | 5 |
| 4 | Options | 6 |
| 5 | Dimensional drawing & centre of gravity | 7 |
| | Dimensional drawing for standard panel | 7 |
| | Dimensional drawing for auto cleaning panel | 8 |
| | Dimensional drawing with accessories | 9 |
| | Centre of gravity | 10 |
| 6 | Piping diagram | 12 |
| 7 | Wiring diagram | 13 |
| | Wiring diagram | 13 |
| 8 | Sound data | 14 |
| | Sound pressure spectrum | 14 |
| | Sound power spectrum | 16 |
| 9 | Air flow pattern | 18 |

1 Features

- 360° air discharge ensures uniform air flow and temperature distribution
- Modern style decoration panel is available in 3 different variations: Standard panel in white (RAL9010) with grey louvers and standard panel in full white (RAL9010) including white louvers, auto cleaning panel
- For auto cleaning panel:
 - Daikin introduces first auto cleaning cassette to European market¹
 - Higher efficiency and comfort from daily auto cleaning of the filter¹
- Lower maintenance costs thanks to auto cleaning function¹
- Easy removal of dust with a vacuum cleaner without opening the unit¹
- Fresh air intake: up to 20 % (optional kit required)
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- 23 different air flow patterns possible
- Drain-up pump with 850 mm lift fitted as standard

¹ Only for auto cleaning panel BYCQ140CG



2 Specifications

| 2-1 Technical Specifications | | | | FCQ35C8VEB | FCQ50C8VEB | FCQ60C8VEB | FCQ71C8VEB | FCQ100C8VEB | FCQ125C8VEB | FCQ140C8VEB | |
|------------------------------|----------------------------|----------------------|---------------------|---------------------------------|---|------------|------------|-------------|-------------|-------------|----|
| Power input 50Hz | Cooling | Nom. | kW | 0.056 | | | | 0.120 | | | |
| | Heating | Nom. | kW | 0.056 | | | | 0.120 | | | |
| Casing | Material | | | Galvanised steel plate | | | | | | | |
| Dimensions | Unit | Height | mm | 204 | | | | 246 | | | |
| | | Width | mm | 840 | | | | | | | |
| | | Depth | mm | 840 | | | | | | | |
| | Packed unit | Height | mm | 220 | | | | 262 | | | |
| | | Width | mm | 882 | | | | | | | |
| | | Depth | mm | 882 | | | | | | | |
| Weight | Unit | | kg | 19 | | | 21 | | 23 | | |
| | Packed Unit | | kg | 24 | | | 25 | | 28 | | |
| Heat Exchanger | Dimensions | Length | mm | inside: 2096, outside: 2152 | | | | | | | |
| | | Nr of Rows | | 2 | | | | | | | |
| | | Fin Pitch | mm | 1.2 | | | | | | | |
| | | Nr of Passes | | 4 | 6 | | 7 | | 9 | | |
| | | Face Area | m ² | 0.267 | | | 0.357 | | 0.446 | | |
| | | Nr of Stages | | 6 | | | 8 | | 10 | | |
| | | Empty Tubeplate Hole | | 4 | 0 | | | | | | |
| | Fin | Type | | | Cross fin coil (Multi louver fins and Hi-XSS tubes) | | | | | | |
| Fan | Type | | | Turbo fan | | | | | | | |
| | Quantity | | | 1 | | | | | | | |
| Air Flow Rate | Cooling | High | m ³ /min | 10.5 | 12.5 | 13.5 | 15.5 | 23.5 | 27.5 | | |
| | | Low | m ³ /min | 8.5 | | | 9.0 | 16.0 | 19.0 | | |
| | Heating | High | m ³ /min | 12.5 | | 13.5 | 16.0 | 23.5 | 27.5 | | |
| | | Low | m ³ /min | 10.0 | 8.5 | | 9.5 | 16.0 | 19.0 | | |
| Fan | Motor | Model | | | QTS48D11M | | | QTS48C15M | | | |
| | | Number of steps | | | 2 | | | | | | |
| | | Output (high) | W | 56 | | | | 120 | | | |
| Cooling | Sound Power | High | dBA | 49 | | 51 | | 54 | 58 | | |
| | | Low | dBA | 27 | | 28 | | 32 | 35 | | |
| | Sound Pressure | High | dBA | 31 | | 33 | | 34 | 37 | 41 | |
| Low | | dBA | 27 | | 28 | | 32 | 35 | | | |
| Heating | Sound Pressure | High | dBA | 31 | | 33 | | 34 | 37 | 41 | 42 |
| | | Low | dBA | 27 | | 28 | | 32 | 35 | | |
| Sound Level | Sound Absorbing Insulation | | | Foamed polyurethane | | | | | | | |
| Refrigerant | Type | | | R-410A | | | | | | | |
| Piping connections | Liquid (OD) | Type | | | Flare connection | | | | | | |
| | | Diameter (OD) | mm | 6.35 | | | | 9.52 | | | |
| | Gas | Type | | | Flare connection | | | | | | |
| | | Diameter (OD) | mm | 9.52 | 12.7 | | 15.9 | | | | |
| | Drain | Diameter (OD) | mm | VP25 (O.D. 32 / I.D. 25) | | | | | | | |
| | Heat Insulation | | | Foamed polystyrene/polyethylene | | | | | | | |

2 Specifications

| 2-1 Technical Specifications | | | | FCQ35C8VEB | FCQ50C8VEB | FCQ60C8VEB | FCQ71C8VEB | FCQ100C8VEB | FCQ125C8VEB | FCQ140C8VEB |
|------------------------------|------------|----|--------|-----------------------------------|------------|------------|------------|-------------|-------------|-------------|
| Decoration Panel | Model | | | BYCQ140CW1 | | | | | | |
| | Colour | | | Pure White (RAL 9010) | | | | | | |
| | Dimensions | H | mm | 50 | | | | | | |
| | | W | mm | 950 | | | | | | |
| | | D | mm | 950 | | | | | | |
| | Weight | | | kg 5.5 | | | | | | |
| | Model | | | BYCQ140CW1W | | | | | | |
| | Colour | | | Pure White (RAL 9010) | | | | | | |
| | Dimensions | H | mm | 50 | | | | | | |
| | | W | mm | 950 | | | | | | |
| | | D | mm | 950 | | | | | | |
| | Weight | | | kg 5.5 | | | | | | |
| | Model | | | BYCQ140CGW1 | | | | | | |
| | Colour | | | Pure White (RAL 9010) | | | | | | |
| | Dimensions | H | mm | 130 | | | | | | |
| W | | mm | 950 | | | | | | | |
| D | | mm | 950 | | | | | | | |
| Weight | | | kg 5.5 | | | | | | | |
| Air Filter | | | | Resin net with mold resistance | | | | | | |
| Standard Accessories | Item | | | Installation and operation manual | | | | | | |
| | | | | Drain hose | | | | | | |
| | | | | Clamp for drain hose | | | | | | |
| | | | | Washer for hanger bracket | | | | | | |
| | | | | Screws | | | | | | |
| | | | | Installation guide | | | | | | |
| | | | | Insulation for fitting | | | | | | |
| | | | | Sealing pads | | | | | | |
| | | | | Drain sealing pad | | | | | | |

| 2-2 Electrical Specifications (50Hz) | | | | FCQ35C8VEB | FCQ50C8VEB | FCQ60C8VEB | FCQ71C8VEB | FCQ100C8VEB | FCQ125C8VEB | FCQ140C8VEB |
|--------------------------------------|----------------------------|------|----|------------|------------|------------|------------|-------------|-------------|-------------|
| Power Supply | Phase | | | 1~ | | | | | | |
| | Frequency | | Hz | 50 | | | | | | |
| | Voltage | | V | 220-440 | | | | | | |
| | Voltage range | Min. | % | -10 | | | | | | |
| | Voltage range | Max. | % | 10 | | | | | | |
| Current | Minimum circuit amps (MCA) | | A | 9.75 | 19.75 | 17.0 | 24.7 | 25.0 | | |
| | Maximum fuse amps (MFA) | | A | 10 | 20 | | 32 | | | |

| 2-3 Electrical Specifications (60Hz) | | | | FCQ35C8VEB | FCQ50C8VEB | FCQ60C8VEB | FCQ71C8VEB | FCQ100C8VEB | FCQ125C8VEB | FCQ140C8VEB |
|--------------------------------------|---------------|------|----|------------|------------|------------|------------|-------------|-------------|-------------|
| Power Supply | Phase | | | 1~ | | | | | | |
| | Frequency | | Hz | 60 | | | | | | |
| | Voltage | | V | 220 | | | | | | |
| | Voltage range | Min. | % | -10 | | | | | | |
| | Voltage range | Max. | % | 10 | | | | | | |

3 Safety device settings

FCQ35-140C8

| Safety devices | | | 35 | 50 | 60 | 71 | 100 | 125 | 140 |
|----------------|-----------------------------|----|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| FCQ | PC board fuse | | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A |
| | Fan motor thermal fuse | °C | --- | --- | --- | --- | --- | --- | --- |
| | Fan motor thermal protector | °C | Off: 108 \pm 5 (On: 96 \pm 15) | Off: 108 \pm 5 (On: 96 \pm 15) | Off: 108 \pm 5 (On: 96 \pm 15) | Off: 108 \pm 5 (On: 96 \pm 15) | Off: 108 \pm 5 (On: 96 \pm 15) | Off: 108 \pm 5 (On: 96 \pm 15) | Off: 108 \pm 5 (On: 96 \pm 15) |
| | Drain pump fuse | °C | 145 | 145 | 145 | 145 | 145 | 145 | 145 |

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4 Options

FCQ35-140C8VEB

OPTIONS

| Item | Model | FCQ35 | FCQ50 | FCQ60 | FCQ71 | FCQ100 | FCQ125 | FCQ140 | FCQH71 | FCQH100 | FCQH125 | FCQH140 | |
|------|--|---|-------|-------|-------|--------|--------|-------------|--------|---------|---------|---------|--|
| 1 | Decoration panel | BYCQ140CW1 / BYCQ140CW1W *3 / BYCQ140CGW1 *5,*6 | | | | | | | | | | | |
| 2 | Long life replacement filter | Non-woven type | | | | | | KAFP551K160 | | | | | |
| 3 | Fresh air intake kit (20% fresh air) | Chamber type | | | | | | KDDQ55C140 | | | | | |
| 4 | Sealing member of air discharge outlet | KDBHQ55C140 | | | | | | | | | | | |

CONTROL SYSTEMS

| Item | Model | FCQ35 | FCQ50 | FCQ60 | FCQ71 | FCQ100 | FCQ125 | FCQ140 | FCQH71 | FCQH100 | FCQH125 | FCQH140 |
|------|---|--------------|-------|-------|-----------|--------|-------------|--------|--------|---------|---------|---------|
| 1 | Remote control | Wireless | H/P | | BRC7F532F | | | | | | | |
| | | | C/O | | BRC7F533F | | | | | | | |
| | Wired | BRC1D528 | | | | | | | | | | |
| | | BRC1E51A7 *4 | | | | | | | | | | |
| 2-1 | Wiring adaptor for electrical appendices (1) | | | | | | KRP1BA57 *1 | | | | | |
| 2-2 | Wiring adaptor for electrical appendices (2) | | | | | | KRP4AA53 *1 | | | | | |
| 2-3 | Wiring adaptor (hour meter) | | | | | | EKRP1C11 *1 | | | | | |
| 3 | Remote sensor | | | | | | KRCS01-4 | | | | | |
| 4 | Installation box for adapter PCB | | | | | | KRP1H98 | | | | | |
| 5 | Central remote control | | | | | | DCS302CA51 | | | | | |
| 6 | Unified ON/OFF control | | | | | | DCS301BA51 | | | | | |
| 7 | Electrical box with earth terminal (2 blocks) | | | | | | KJB212AA | | | | | |
| 8 | Schedule timer | | | | | | DST301BA51 | | | | | |
| 9 | Remote on/off | | | | | | EKRORO2 | | | | | |

3TW32359-1B

NOTES

- *1. Installation box is necessary for these adaptors.
- *2. All options are supplied as kit.
- *3. The BYCQ140CW1W white insulations.
Be informed that formation of dirt on white insulations is visibly stronger and that it is consequently not advised to install the BYCQ140CW1W decoration panel in environments exposed to concentrations of dirt.
- *4. Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.
- *5. To be able to control the BYCQ140CGW1 the controller BRC1E* is needed.
- *6. The BYCQ140CGW1 is not compatible with Mini-VRV, Multi and Split Non-Inverter Outdoor units.

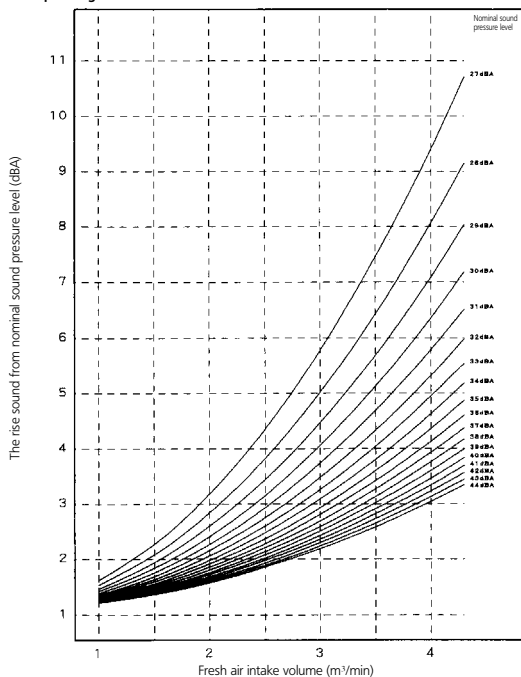
FCQ35-140C8

Max fresh air intake volume table

The maximum intake air flow volume is following table.
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.

| FCQ-C8VEB | 35 | 50 | 60 | 71 | 100 | 125 | 140 |
|---|-----|-----|-----|-----|-----|-----|-----|
| Max fresh air intake volume (m ³ /min) | 2.5 | 2.5 | 2.7 | 3.2 | 4.3 | 4.3 | 4.3 |

The rise of operating sound at with fresh air intake kit



4D057910

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing for standard panel

FCQ35-71C8

| Nr | Name | Description |
|----|--------------------------------|------------------------------|
| 1 | Liquid pipe connection | ø A flare connection |
| 2 | Gas pipe connection | ø B flare connection |
| 3 | Drain pipe connection | VP25 (O.D. ø 32 / I.D. ø 25) |
| 4 | Power supply entry hole | |
| 5 | Transmission wiring entry hole | |
| 6 | Air discharge opening | |
| 7 | Air suction grille | |
| 8 | Corner decoration cover | |
| 9 | Drain hose | O.D. ø 32 / I.D. ø 26 |
| 10 | Knock out hole | |

| MODEL | A | B |
|----------|------|------|
| FCQ35 | 6.35 | 9.52 |
| FCQ50-60 | 6.35 | 12.7 |
| FCQ71 | 9.52 | 15.9 |

NOTES

- Location of the nameplates
- Unit body: on the control box cover.
- Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings.
- For the fresh air intake kit an inspection port is necessary
- In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of the infrared remote control for more detail.
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. MAX ceiling opening: 910mm.
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).
- Please respect the distances as shown on the figure

3TW28834-1B

FCQ(H)100-140C8

| Item | Name | Remark |
|------|--------------------------------|---------------------------|
| 1 | Liquid pipe connection | ø9.52 (Flare connection) |
| 2 | Gas pipe connection | ø15.90 (Flare connection) |
| 3 | Drain pipe connection | VP25 (ODø32, IDø25) |
| 4 | Power supply entry hole | |
| 5 | Transmission wiring entry hole | |
| 6 | Air discharge opening | |
| 7 | Air suction grille | |
| 8 | Corner decoration cover | |
| 9 | Drain hose | ODø32, IDø25 |
| 10 | Knock out hole | |

NOTE

- Location of the nameplates - Unit body: on the control box - Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings
For the fresh air intake kit an inspection port is necessary
- In case of using a wireless remote control, this position will be a signal receiver. Refer to the drawing of the wireless remote control for more detail.
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max ceiling opening: 910mm.
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).

3TW28914-1C

5 Dimensional drawing & centre of gravity

5 - 2 Dimensional drawing for auto cleaning panel

FCQ35-71C8VEB

| Nr | Name | Description |
|----|--------------------------------|---------------------------|
| 1 | Liquid pipe connection | ØA flare connection |
| 2 | Gas pipe connection | ØB flare connection |
| 3 | Drain pipe connection | VP25 (O.D. Ø32, I.D. Ø25) |
| 4 | Power supply entry hole | |
| 5 | Transmission wiring entry hole | |
| 6 | Air discharge opening | |
| 7 | Air suction grille | |
| 8 | Corner decoration cover | |
| 9 | Drain hose | O.D. Ø32, I.D. Ø26 |
| 10 | Knock out hole | |

| Model | A | B |
|---------------|------|------|
| FCQ35 | 6.35 | 9.52 |
| FCQ50-60 | 6.35 | 12.7 |
| FCQ71, FXFQ63 | 9.52 | 15.9 |

NOTES

- Location of the nameplates:
 - Unit body: on the control box.
 - Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings.
 - For the fresh air intake kit an inspection part is necessary
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max. ceiling opening: 910mm
- When the conditions exceed 30°C and RH 80% in de ceiling or fresh air is included into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).

6. Please respect the distances as shown on figure below

(*1) Does not count for build in light
 (*2) Space needed to enter with vacuum-cleaner tube.
 (*3) Keep the exhaust of decoration panel free.

(*4) In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500 mm on the closed side.

3TW32464-1

FCQ100-140C8VEB

| Nr | Name | Description |
|----|--------------------------------|---------------------------|
| 1 | Liquid pipe connection | Ø9.52 flare connection |
| 2 | Gas pipe connection | Ø15.90 flare connection |
| 3 | Drain pipe connection | VP25 (O.D. Ø32, I.D. Ø25) |
| 4 | Power supply entry hole | |
| 5 | Transmission wiring entry hole | |
| 6 | Air discharge opening | |
| 7 | Air suction grille | |
| 8 | Corner decoration cover | |
| 9 | Drain hose | O.D. Ø32, I.D. Ø26 |
| 10 | Knock out hole | |

NOTES

- Location of the nameplates:
 - Unit body: on the control box.
 - Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings.
 - For the fresh air intake kit an inspection part is necessary
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max. ceiling opening: 910mm
- When the conditions exceed 30°C and RH 80% in de ceiling or fresh air is included into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).

6. Please respect the distances as shown on figure below

(*1) Does not count for build in light
 (*2) Space needed to enter with vacuum-cleaner tube.
 (*3) Keep the exhaust of decoration panel free.

(*4) In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500 mm on the closed side.

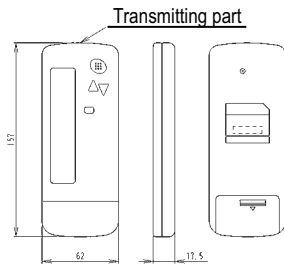
3TW32524-1

5 Dimensional drawing & centre of gravity

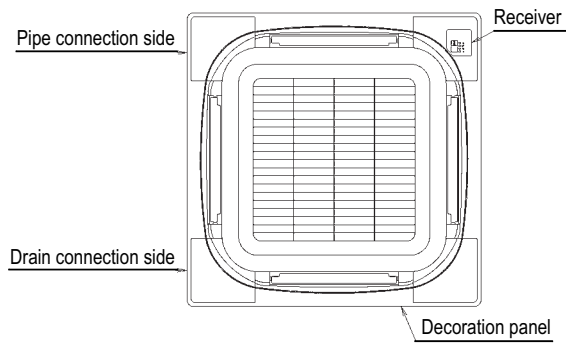
5 - 4 Centre of gravity

FCQ35-140C8

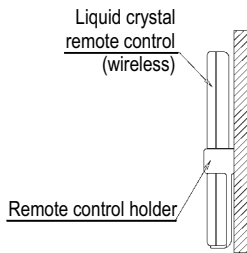
Remote control dimensions



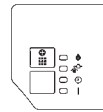
Receiver installation procedure



Remote controller holder installation procedure (installation to wall surface)



Receiver detail



Wireless remote control kit for each decoration panel

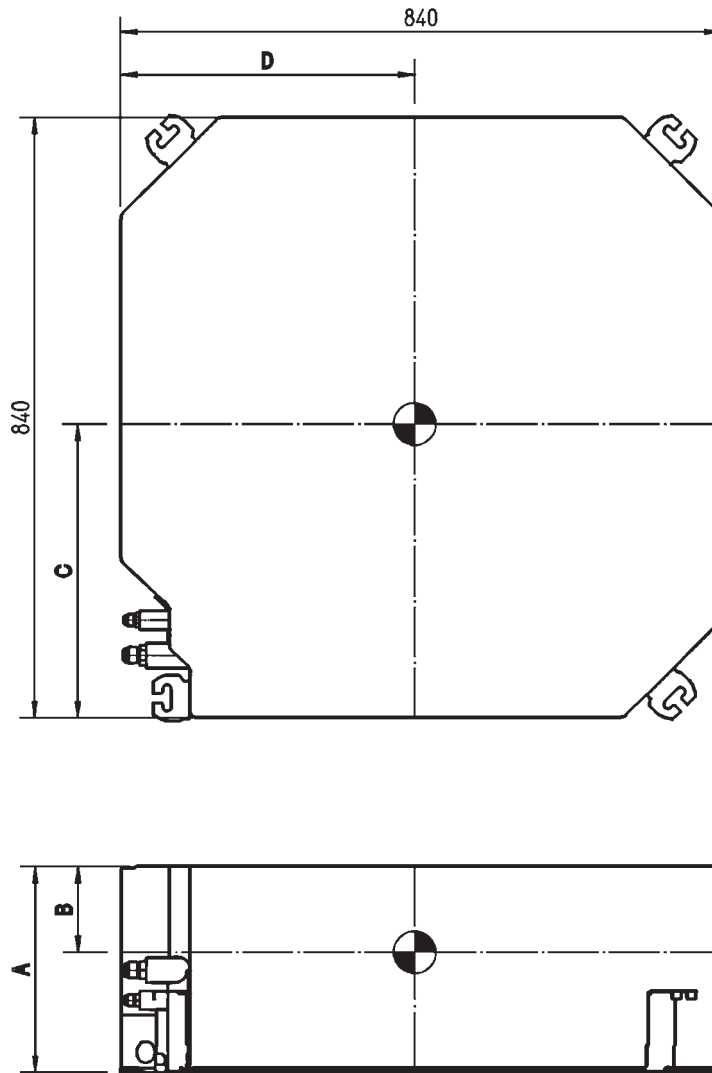
| Wireless remote control kit | Decoration panel |
|-----------------------------|------------------|
| BRC7F532F BRC7F533F | BYCQ140CW1 |

3D056851

5 Dimensional drawing & centre of gravity

5 - 4 Centre of gravity

FCQ35-140C8

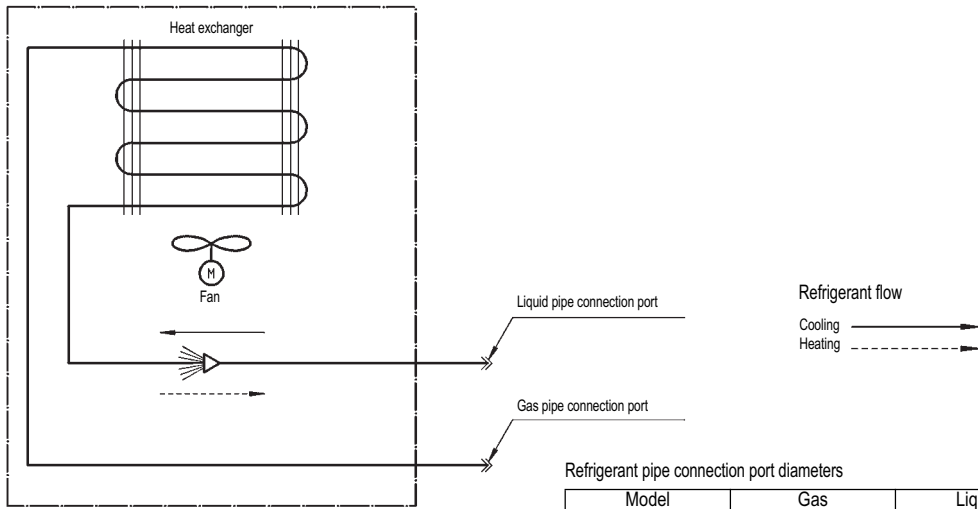


| Models | A | B | C | D |
|------------|-----|----|-----|-----|
| FCQ35~71 | 202 | 60 | 409 | 358 |
| FCQ100~140 | 246 | 90 | 411 | 411 |

4TW28839-2

6 Piping diagram

FCQ35-140C8



Refrigerant pipe connection port diameters

| Model | Gas | Liquid |
|----------|--------|--------|
| FCQ35C8 | ø9.52 | ø6.35 |
| FCQ50C8 | ø12.70 | ø6.35 |
| FCQ60C8 | | |
| FCQ71C8 | | |
| FCQ100C8 | ø15.90 | ø9.52 |
| FCQ125C8 | | |
| FCQ140C8 | | |

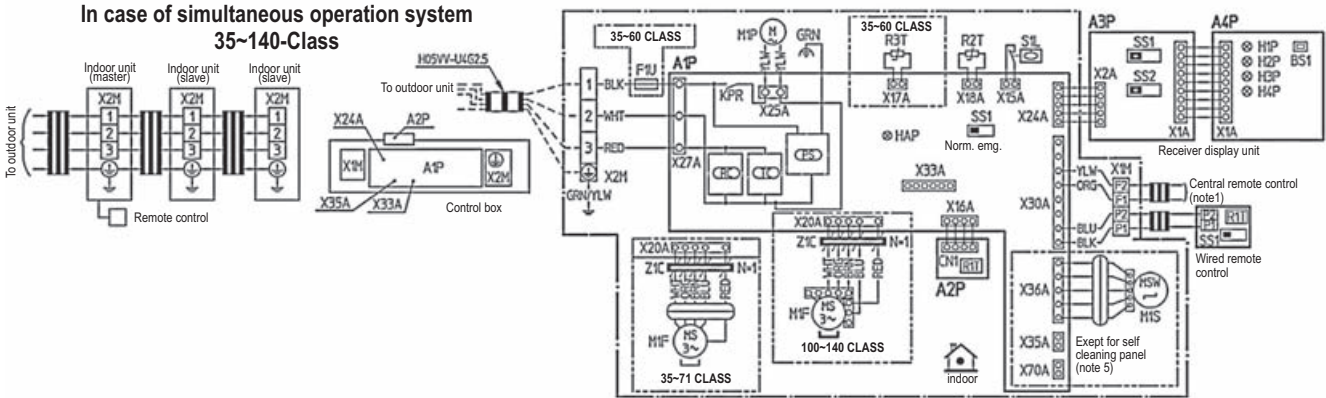
3TW28925-1A

7 Wiring diagram

7 - 1 Wiring diagram

FCQ35-140C8VEB

In case of simultaneous operation system
35~140-Class



| Indoor unit | | Receiver display unit (attached to wireless remote controller) | |
|-------------|--|--|---|
| A1P | Printed circuit board | A3P | Printed circuit board |
| A2P | Printed circuit board (Humidity sensor unit) | A4P | Printed circuit board |
| HAP | Light emitting diode (Service monitor green) | BS1 | Push button (On/off) |
| KPR | Magnetic relay (M1P) | H1P | Light emitting diode (On-red) |
| M1F | Motor (Indoor fan) | H2P | Light emitting diode (Timer-green) |
| M1P | Motor (Drain pump) | H3P | Light emitting diode (Filter sign-red) |
| M1S | Motor (Swing flap) | H4P | Light emitting diode (Defrost - orange) |
| PS | Power supply circuit | SS1 | Selector switch (Main/sub) |
| R1T | Thermistor (Air) | SS2 | Selector switch (Wireless address set) |
| R2T | Thermistor (Coil) | Connector for optional parts | |
| RC | Signal receiver circuit | X24A | Connector (Wireless remote control) |
| S1L | Float switch | X33A | Connector (Adapter for wiring) |
| SS1 | Selector switch (Emergency) | X35A | Connector (Group control adapter) |
| TC | Signal transmission circuit | X70A | Connector (Self cleaning panel) |
| X1M | Terminal strip | Wired remote control | |
| X2M | Terminal strip | R1T | Thermistor (Air) |
| Z1C | Ferrite core | SS1 | Selector switch (Main/sub) |



□ □ □ : Terminal strip
 □ □ □ : Connector
 — — — : Field wiring

Colors: RED Red YLW Yellow BRN Brown
 BLK Black GRN Green GRY Grey
 WHT White ORG Orange BLU Blue

3TW32356-1

NOTES

- In case of using a central remote control, connect it to the unit in accordance with the attached installation manual.
- X24A, X33A and X335A are connected when the optional accessories are being used.
- Remote control model varies according to the combination system, confirm engineering data and catalogs, etc. before connecting.
- Confirm the method of setting the selector switch (SS1, SS2) by installation manual and engineering data, etc.
- In case of self cleaning panel follow the self cleaning panel installation instruction.

8 Sound data

8 - 1 Sound pressure spectrum

FCQ35C8

Octave band sound pressure level $dB(0dB=0.0002 \mu bar)$

Octave band center frequency (Hz)

Approximate threshold hearing for continuous noise

Scale

| Scale | Mode | |
|-------|------|------|
| | Hi | Low |
| A | 31.0 | 27.0 |
| C | 37.0 | 33.0 |

Over All (dB): (B, G, N is already rectified)

Operating conditions:

- Power source: 220-240V 50Hz/220V 60Hz
- Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
- Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
- 4 direction discharge

Power level (dB): Hi 49

Measuring place: Anechoic chamber

Location of microphone

Note: Operation noise differs with operation and ambient conditions.

FCQ50C8

Octave band sound pressure level $dB(0dB=0.0002 \mu bar)$

Octave band center frequency (Hz)

Approximate threshold hearing for continuous noise

Scale

| Scale | Mode | |
|-------|------|------|
| | Hi | Low |
| A | 31.0 | 27.0 |
| C | 37.0 | 33.0 |

Over All (dB): (B, G, N is already rectified)

Operating conditions:

- Power source: 220-240V 50Hz/220V 60Hz
- Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
- Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
- 4 direction discharge

Power level (dB): Hi 49

Measuring place: Anechoic chamber

Location of microphone

Note: Operation noise differs with operation and ambient conditions.

FCQ60C8

Octave band sound pressure level $dB(0dB=0.0002 \mu bar)$

Octave band center frequency (Hz)

Approximate threshold hearing for continuous noise

Scale

| Scale | Mode | |
|-------|------|------|
| | Hi | Low |
| A | 33.0 | 28.0 |
| C | 39.0 | 34.0 |

Over All (dB): (B, G, N is already rectified)

Operating conditions:

- Power source: 220-240V 50Hz/220V 60Hz
- Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
- Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
- 4 direction discharge

Power level (dB): Hi 51

Measuring place: Anechoic chamber

Location of microphone

Note: Operation noise differs with operation and ambient conditions.

FCQ71C8

Octave band sound pressure level $dB(0dB=0.0002 \mu bar)$

Octave band center frequency (Hz)

Approximate threshold hearing for continuous noise

Scale

| Scale | Mode | | | |
|-------|---------|------|---------|------|
| | Cooling | | Heating | |
| A | 33.0 | 34.0 | 28.0 | 28.0 |
| C | 39.0 | 40.0 | 34.0 | 34.0 |

Over All (dB): (B, G, N is already rectified)

Operating conditions:

- Power source: 220-240V 50Hz/220V 60Hz
- Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
- Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
- 4 direction discharge

Power level (dB): Hi 51

Measuring place: Anechoic chamber

Location of microphone

Note: Operation noise differs with operation and ambient conditions.

8 Sound data

8 - 1 Sound pressure spectrum

FCQ100C8

4D056860

| Scale | Mode | |
|-------|------|------|
| | Hi | Low |
| A | 37.0 | 32.0 |
| C | 43.0 | 38.0 |

Over All (dB): (B, G, N is already rectified)
 Operating conditions:
 • Power source: 220~240V 50Hz/220V 60Hz
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
 • 4 direction discharge

Power level (dB): **Hi 54**
 Measuring place: Anechoic chamber
 Location of microphone

Note: Operation noise differs with operation and ambient conditions.

FCQ125C8

4D056861

| Scale | Mode | |
|-------|------|------|
| | Hi | Low |
| A | 41.0 | 35.0 |
| C | 47.0 | 41.0 |

Over All (dB): (B, G, N is already rectified)
 Operating conditions:
 • Power source: 220~240V 50Hz/220V 60Hz
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
 • 4 direction discharge

Power level (dB): **Hi 58**
 Measuring place: Anechoic chamber
 Location of microphone

Note: Operation noise differs with operation and ambient conditions.

FCQ140C8

4D056862

| Scale | Mode | | | |
|-------|---------|------|---------|------|
| | Cooling | | Heating | |
| | Hi | Low | Hi | Low |
| A | 41.0 | 42.0 | 35.0 | 35.0 |
| C | 47.0 | 48.0 | 41.0 | 41.0 |

Over All (dB): (B, G, N is already rectified)

Operating conditions:
 • Power source: 220~240V 50Hz/220V 60Hz
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB
 • 4 direction discharge

Power level (dB):

| Hi | |
|---------|---------|
| Cooling | Heating |
| 58 | 59 |

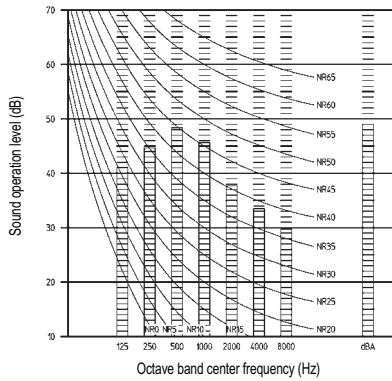
Measuring place: Anechoic chamber
 Location of microphone

Note: Operation noise differs with operation and ambient conditions.

8 Sound data

8 - 2 Sound power spectrum

FCQ35-50C8

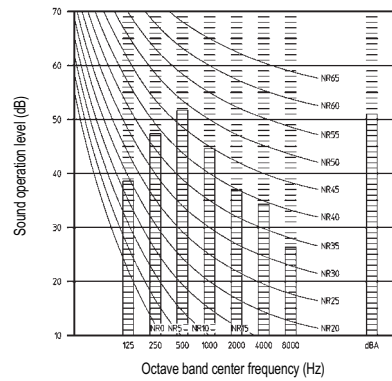


4TW28927-1

NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC).
- 4 Reference acoustic intensity $0dB = 10E-6\mu W/m^2$
- 5 Curve for FCQ35-50C8VEB in cooling mode.

FCQ60C8

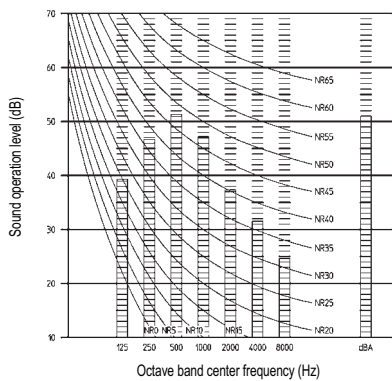


4TW28947-1

NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC).
- 4 Reference acoustic intensity $0dB = 10E-6\mu W/m^2$
- 5 Curve for FCQ60C8VEB in cooling mode.

FCQ71C8

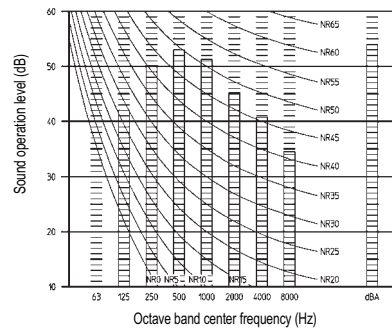


4TW28957-1

NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC).
- 4 Reference acoustic intensity $0dB = 10E-6\mu W/m^2$
- 5 Curve for FCQ71C8VEB in cooling mode.

FCQ100C8



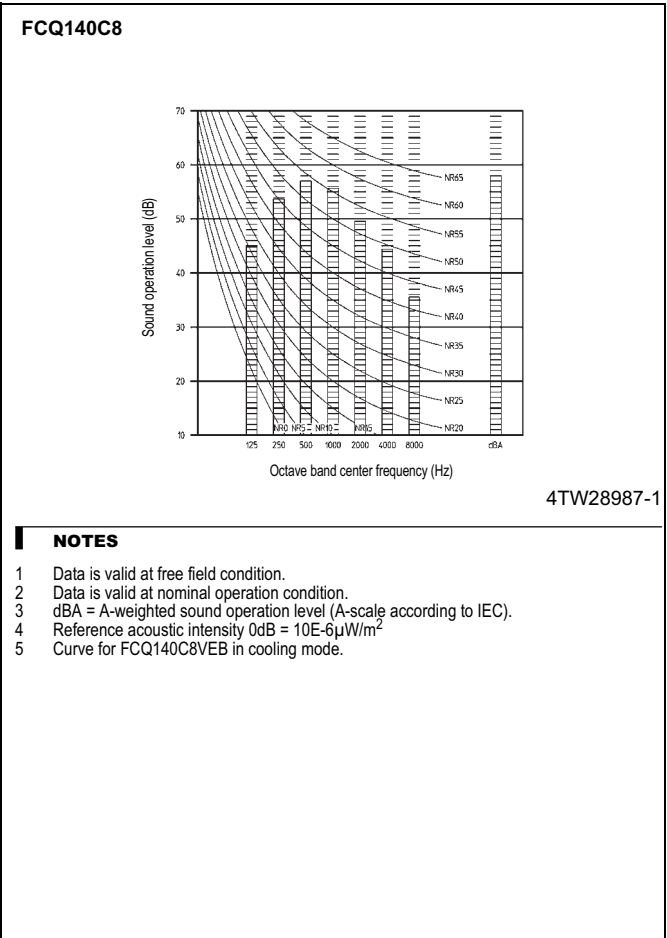
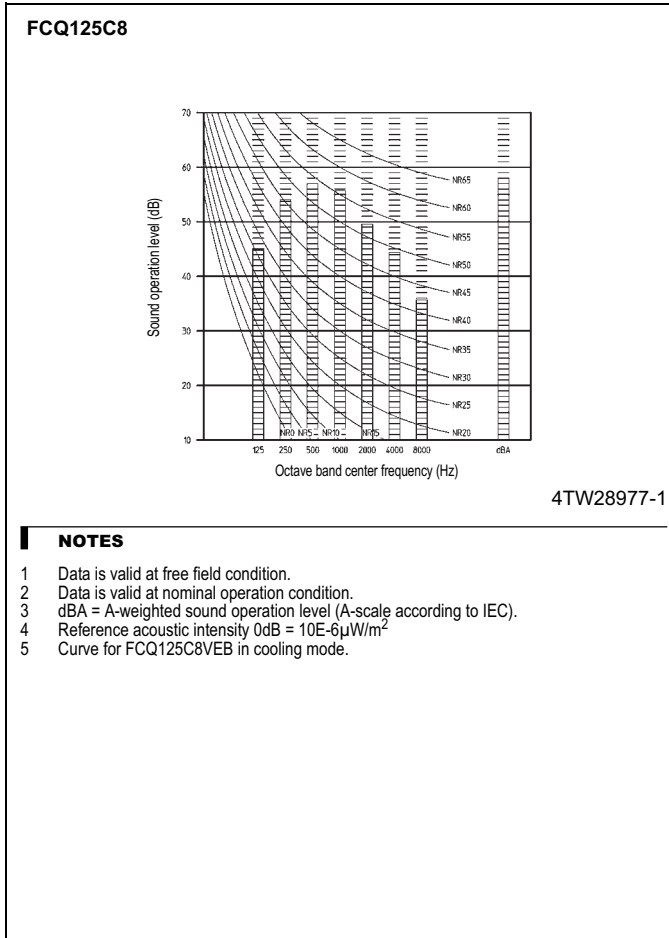
4TW28967-1

NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC).
- 4 Reference acoustic intensity $0dB = 10E-6\mu W/m^2$
- 5 Curve for FCQ100C8VEB in cooling mode.

8 Sound data

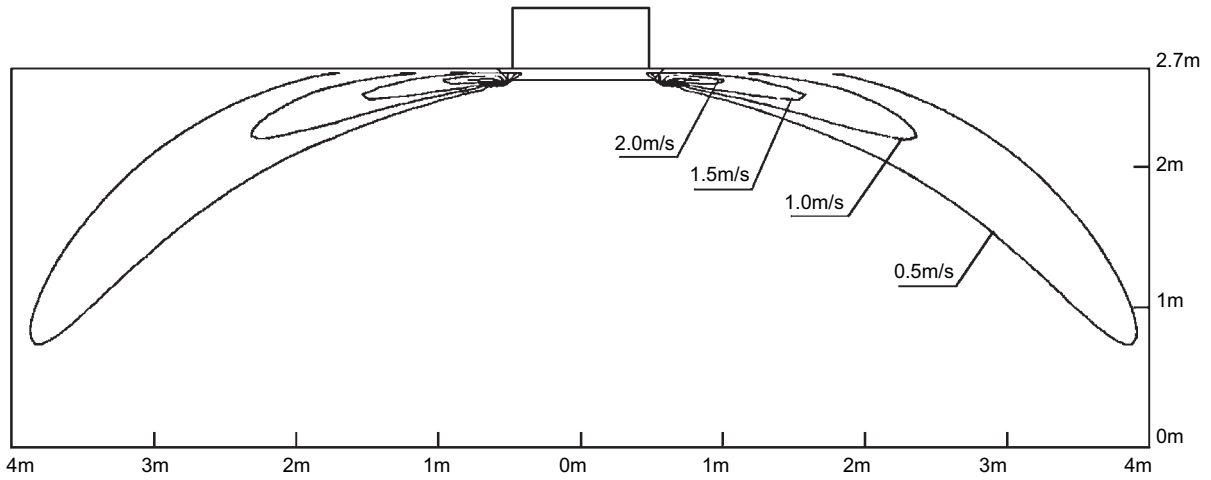
8 - 2 Sound power spectrum



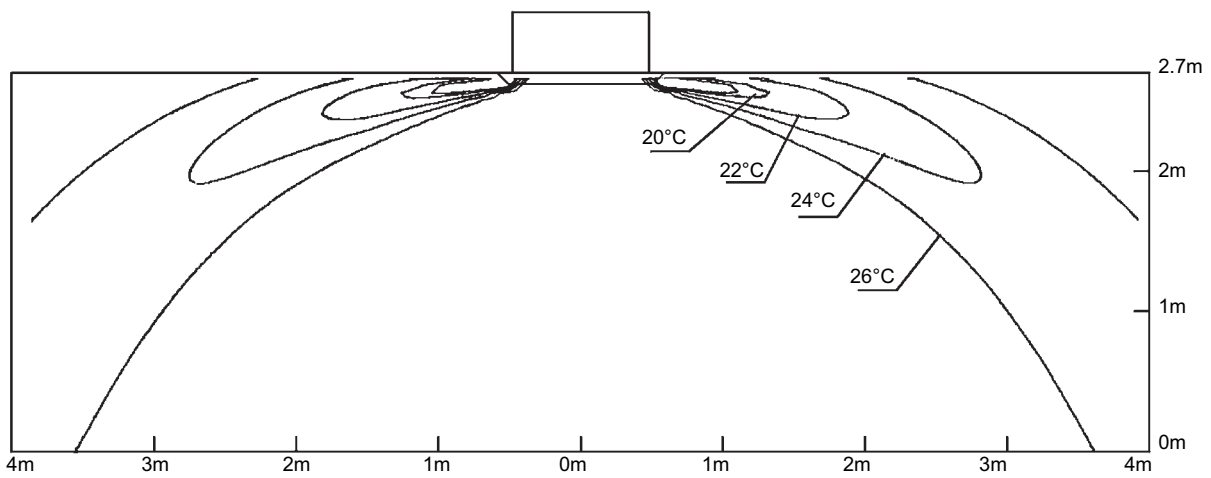
9 Air flow pattern

FCQ35C8

Cooling air velocity distribution
 All round air discharge, air flow direction: horizontal



Cooling air temperature distribution
 All round air discharge, air flow direction: horizontal



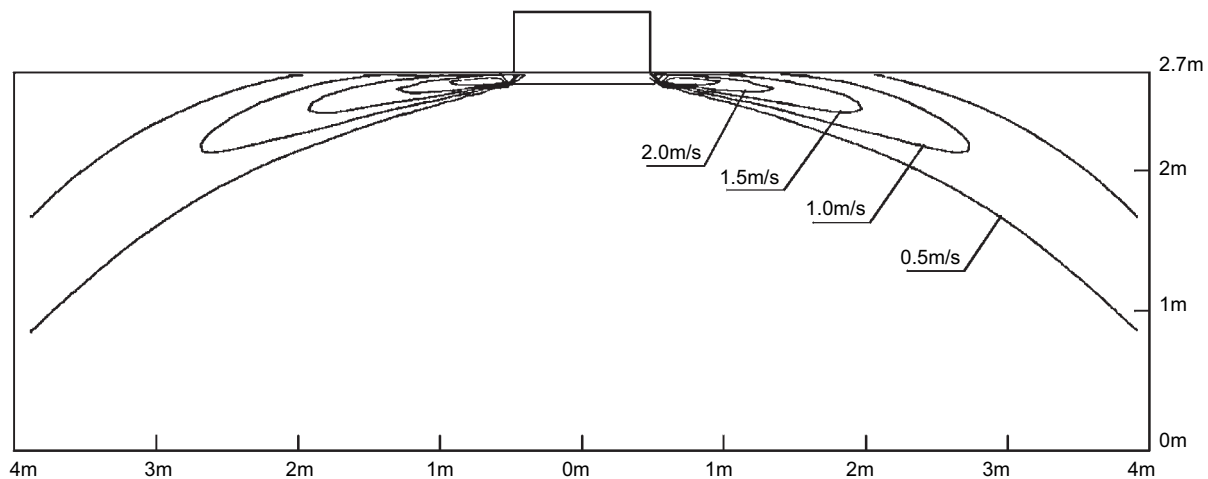
4D057199

9 Air flow pattern

FCQ50C8

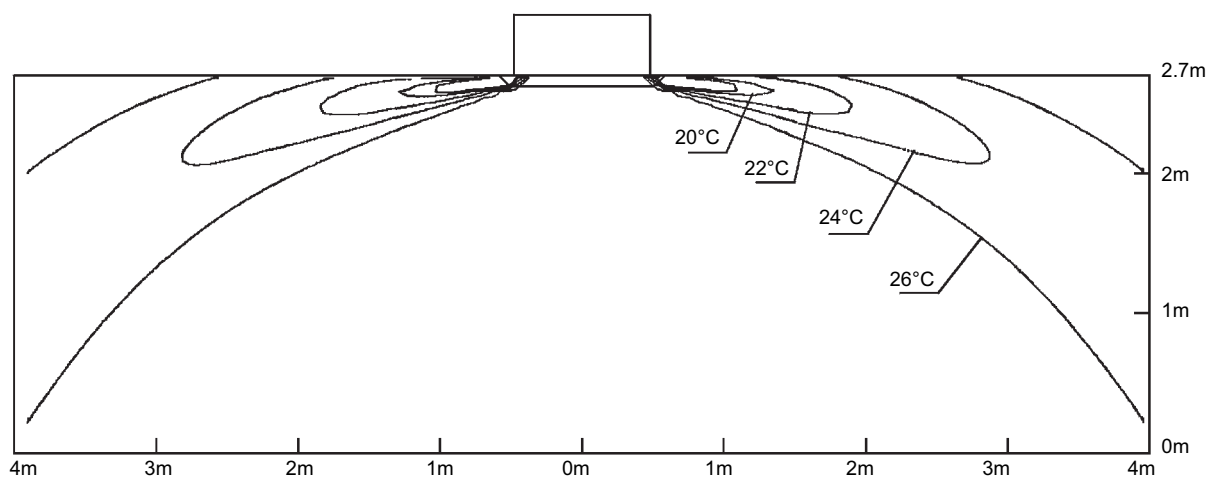
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



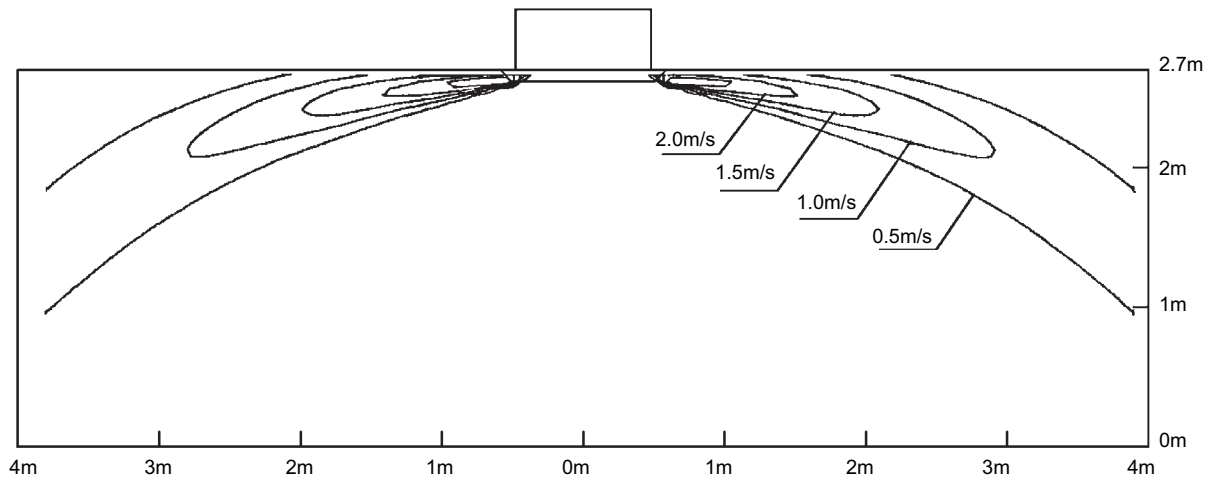
4D057201

9 Air flow pattern

FCQ60C8

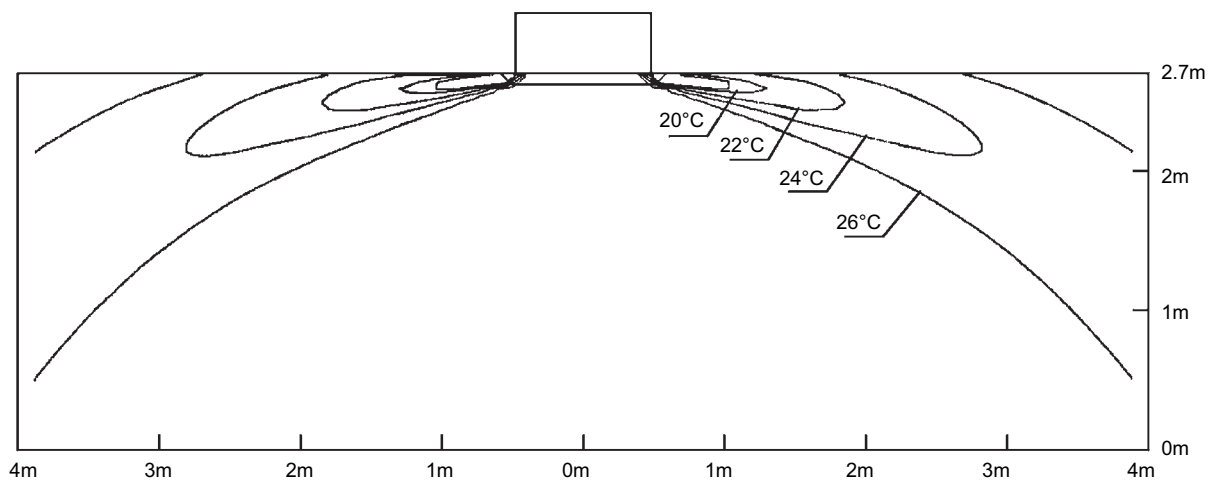
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



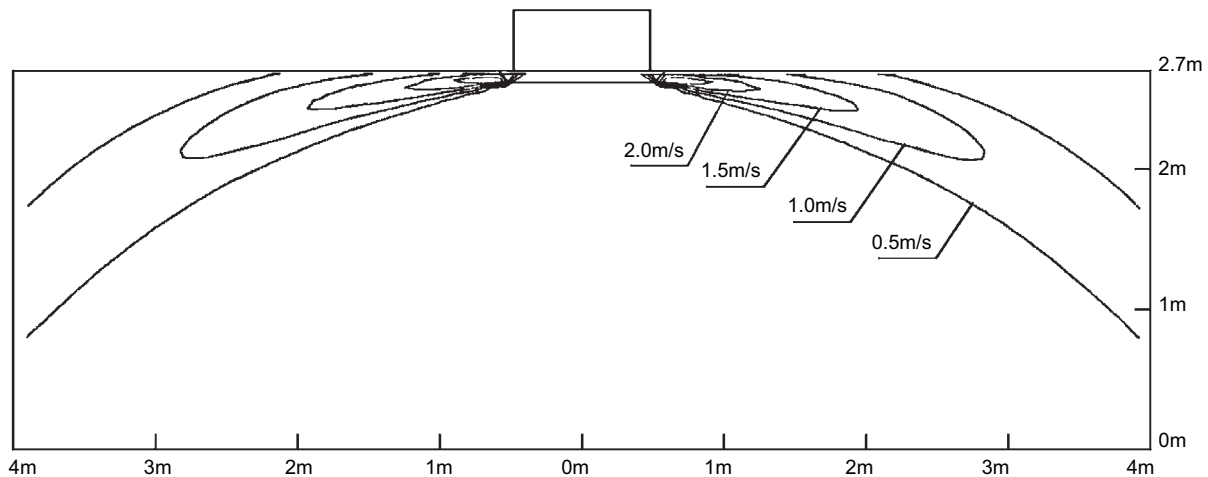
4D057203

9 Air flow pattern

FCQ71C8

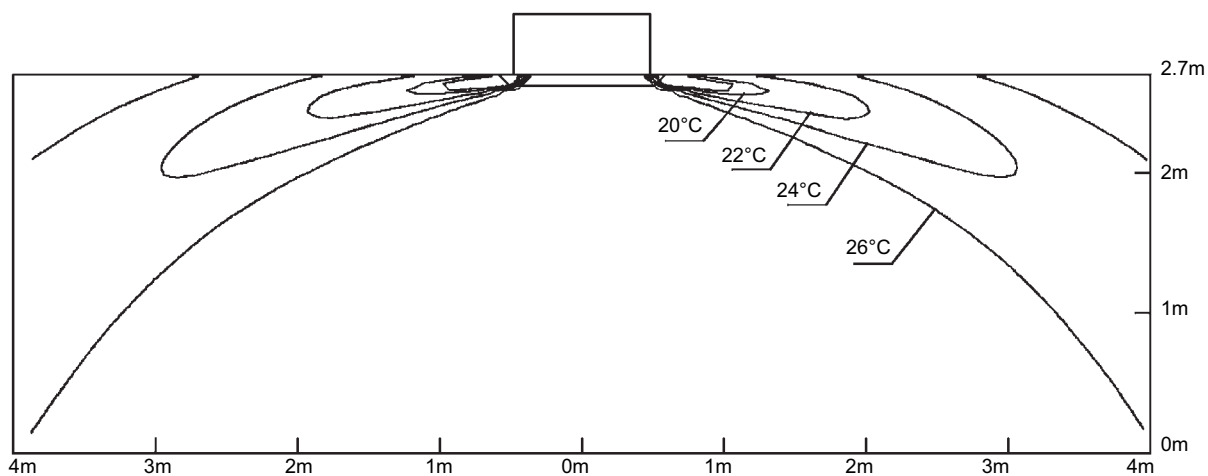
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



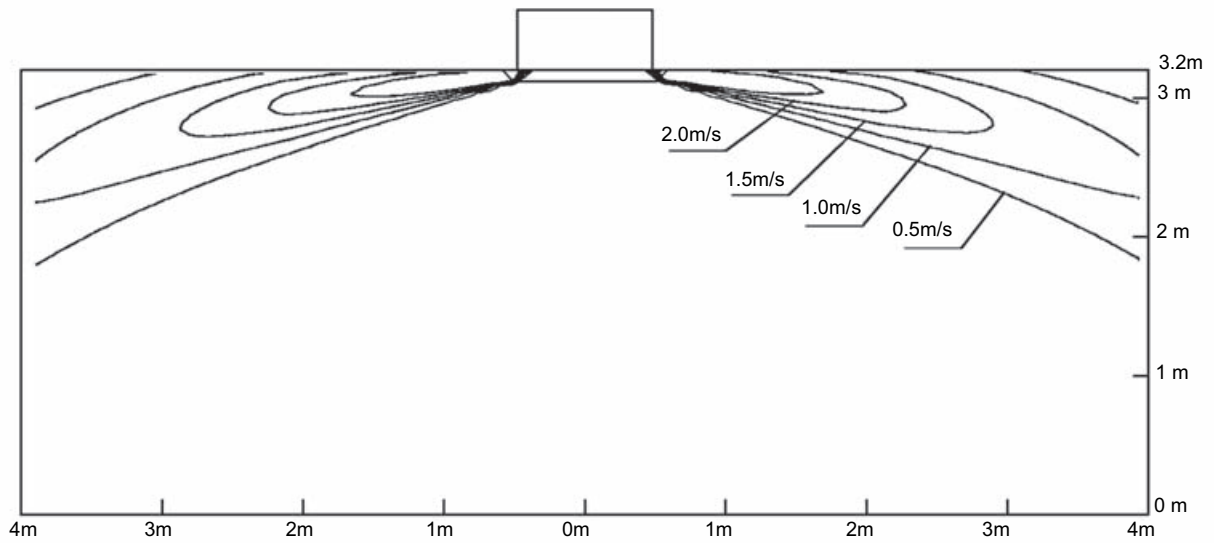
4D057205

9 Air flow pattern

FCQ100C8

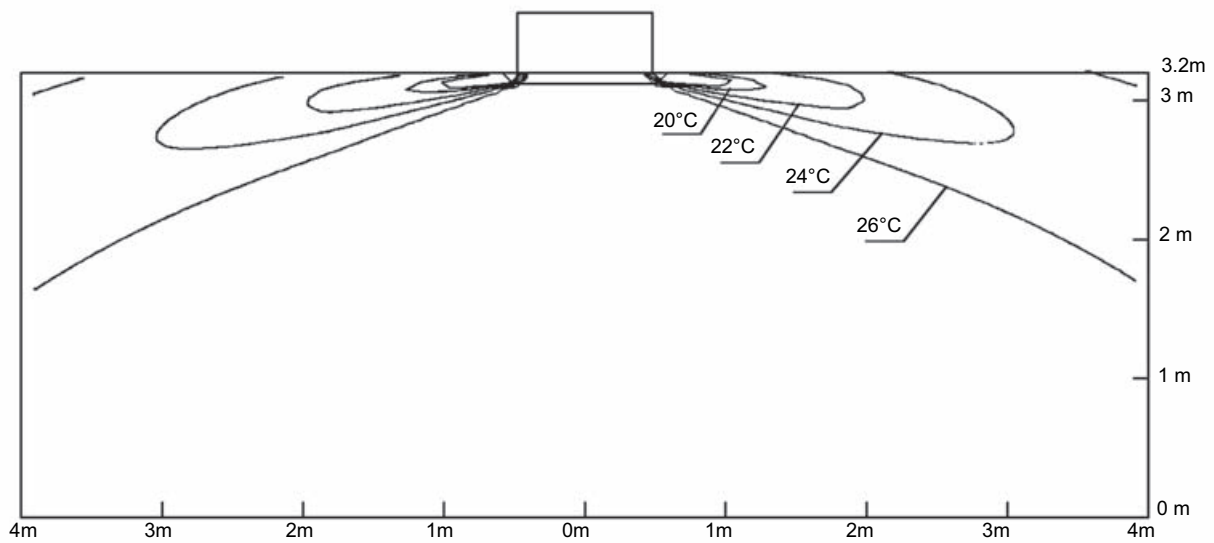
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



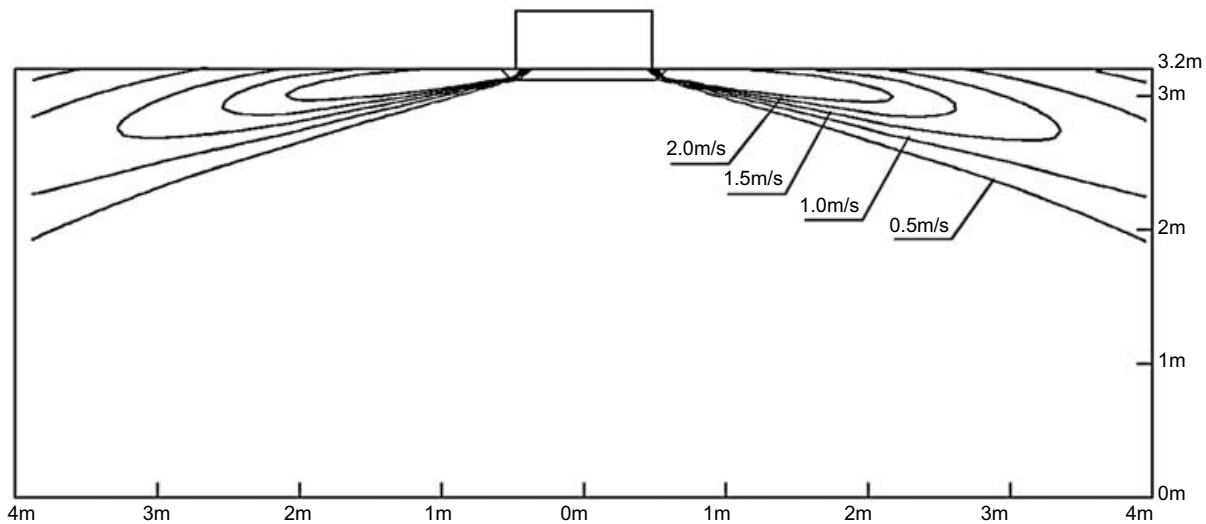
4D057207

9 Air flow pattern

FCQ125C8

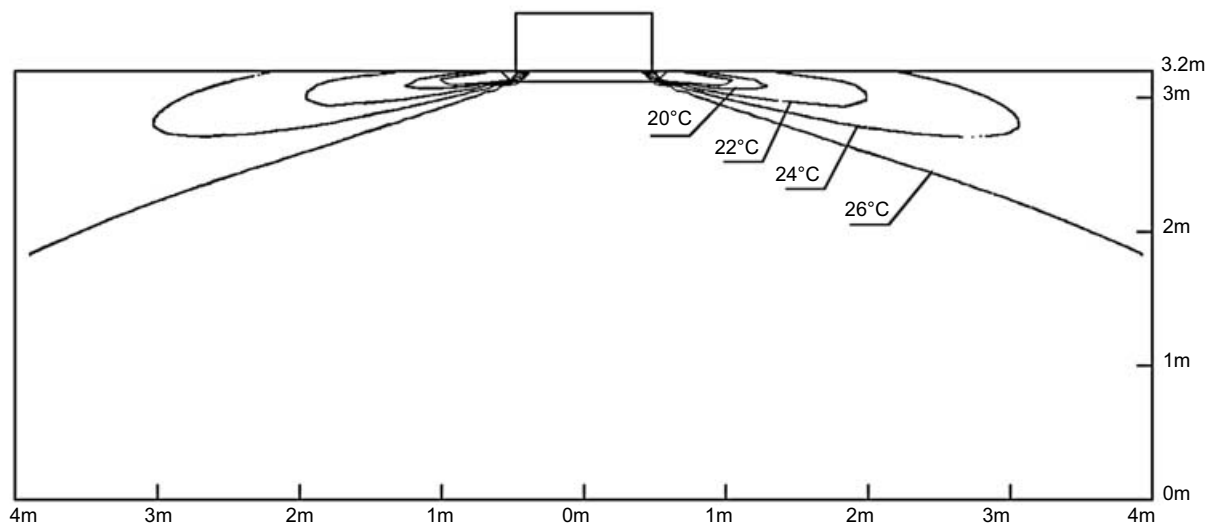
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

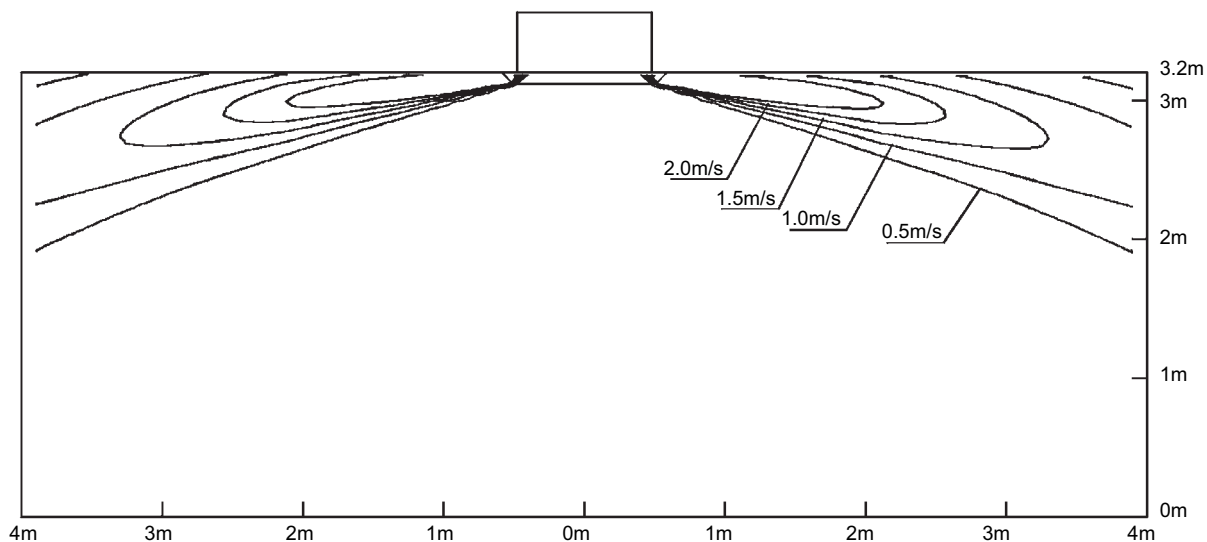


4D057209

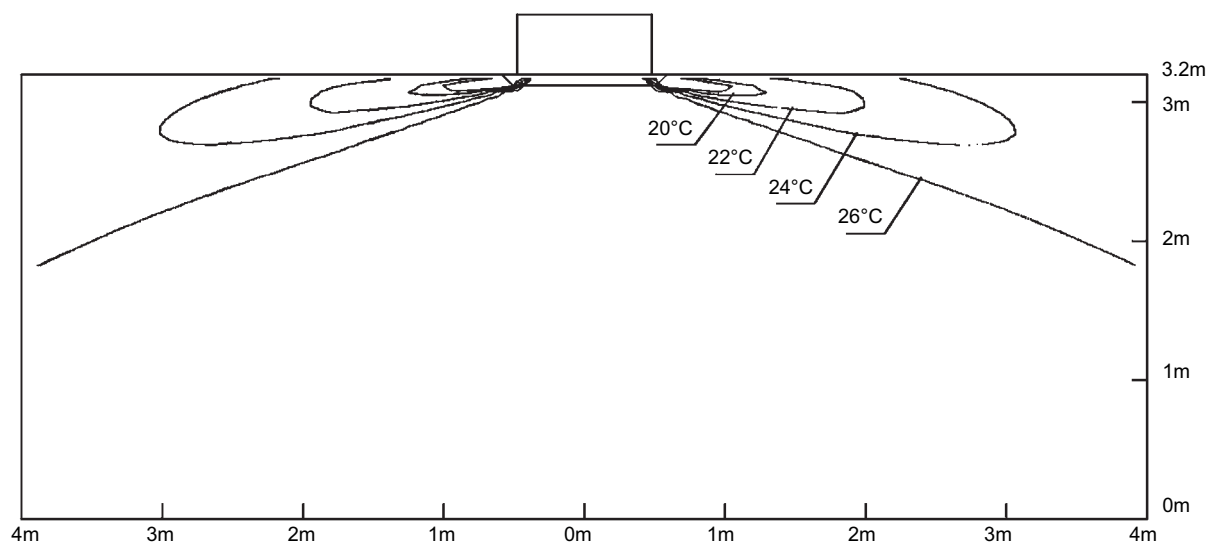
9 Air flow pattern

FCQ140C8

Cooling air velocity distribution
 All round air discharge, air flow direction: horizontal



Cooling air temperature distribution
 All round air discharge, air flow direction: horizontal



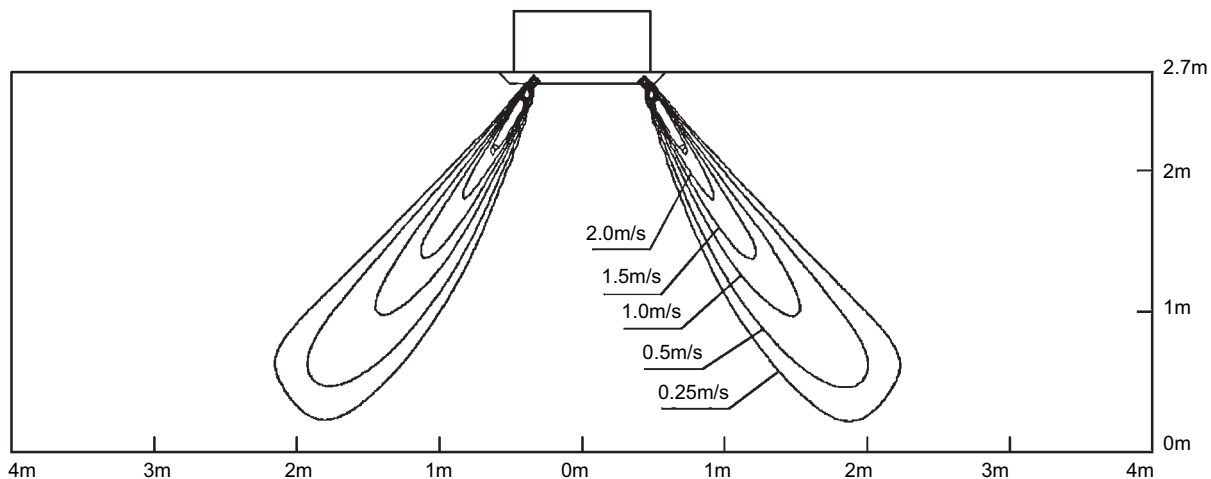
4D057211

9 Air flow pattern

FCQ35C8

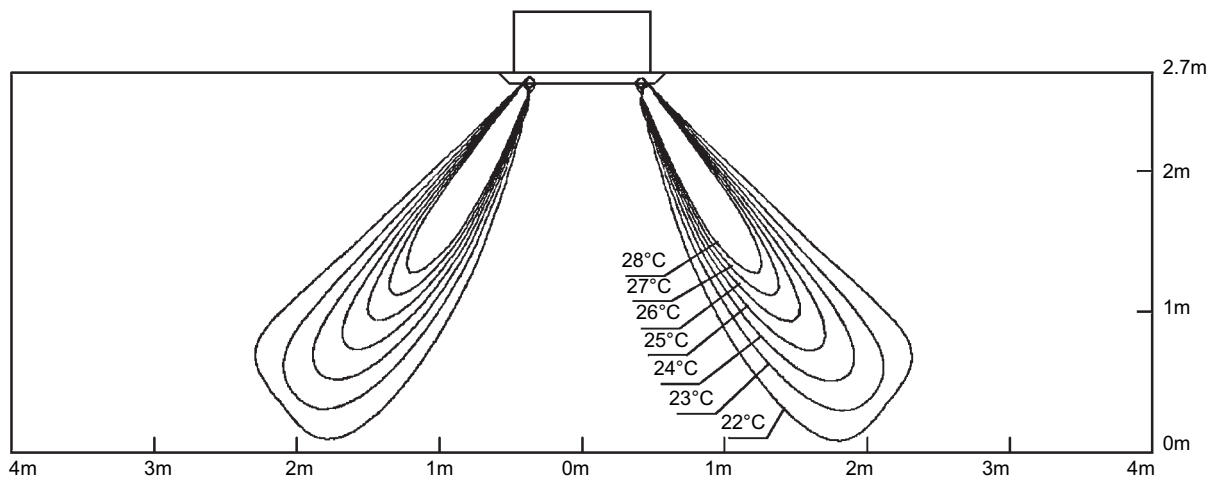
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



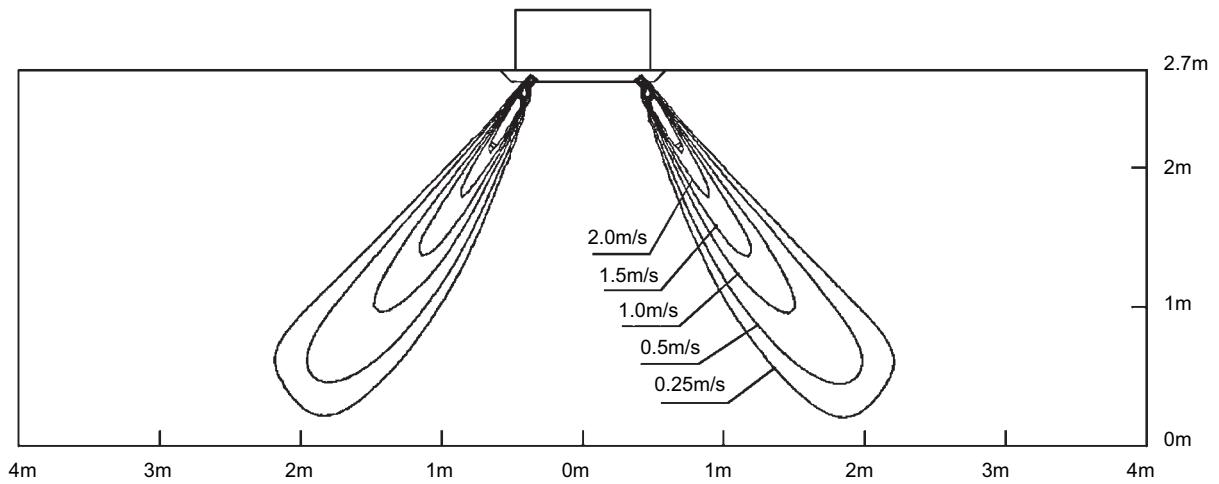
4D057198

9 Air flow pattern

FCQ50C8

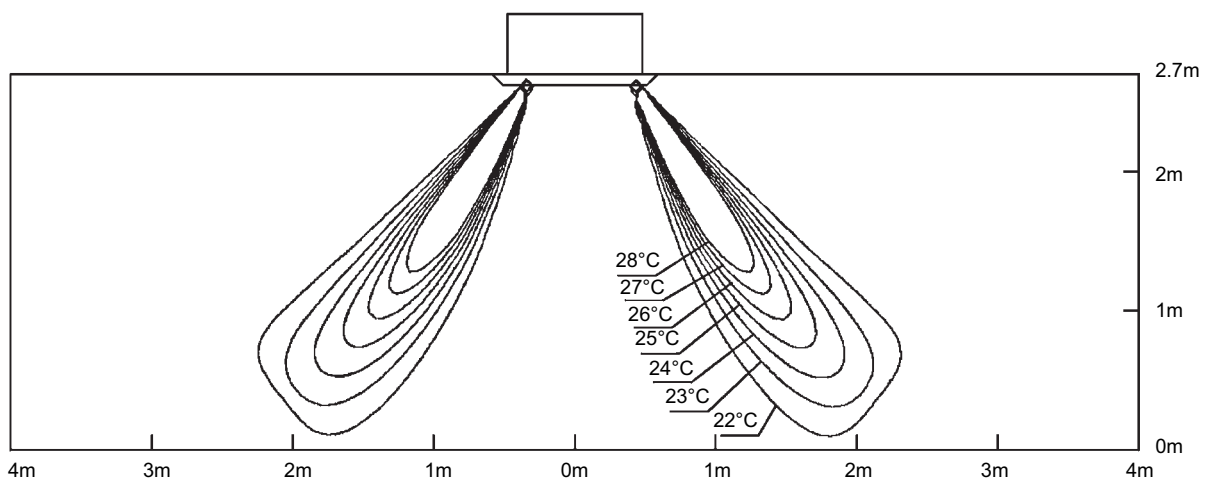
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

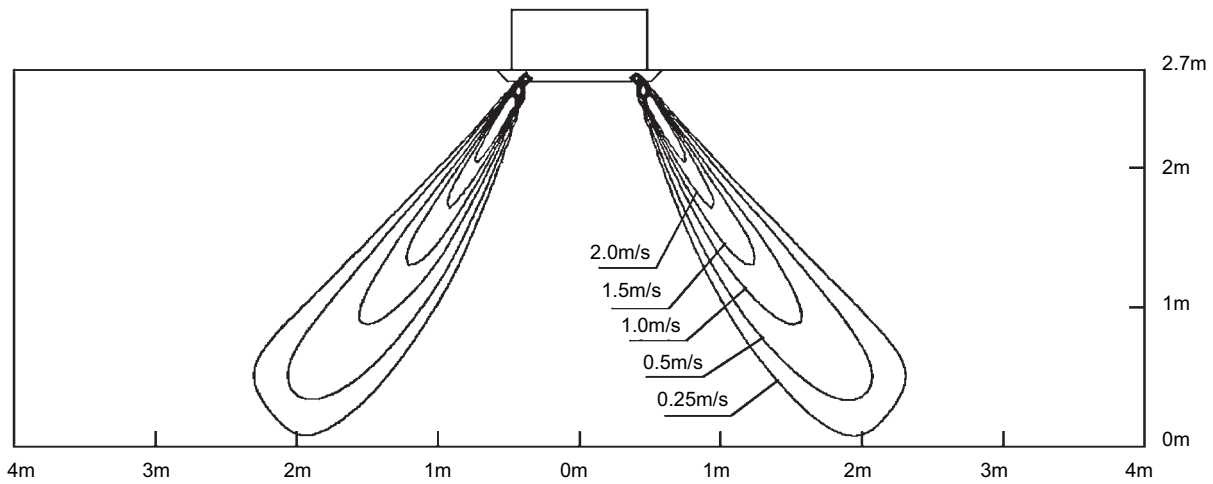


4D057200

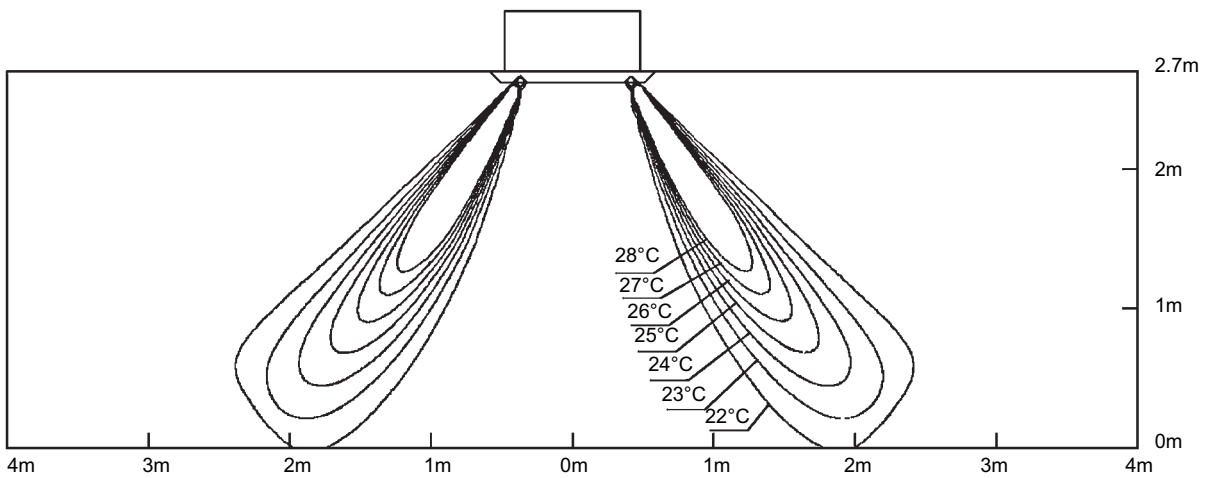
9 Air flow pattern

FCQ60C8

Heating air velocity distribution
 All round air discharge, air flow direction: horizontal



Heating air temperature distribution
 All round air discharge, air flow direction: horizontal

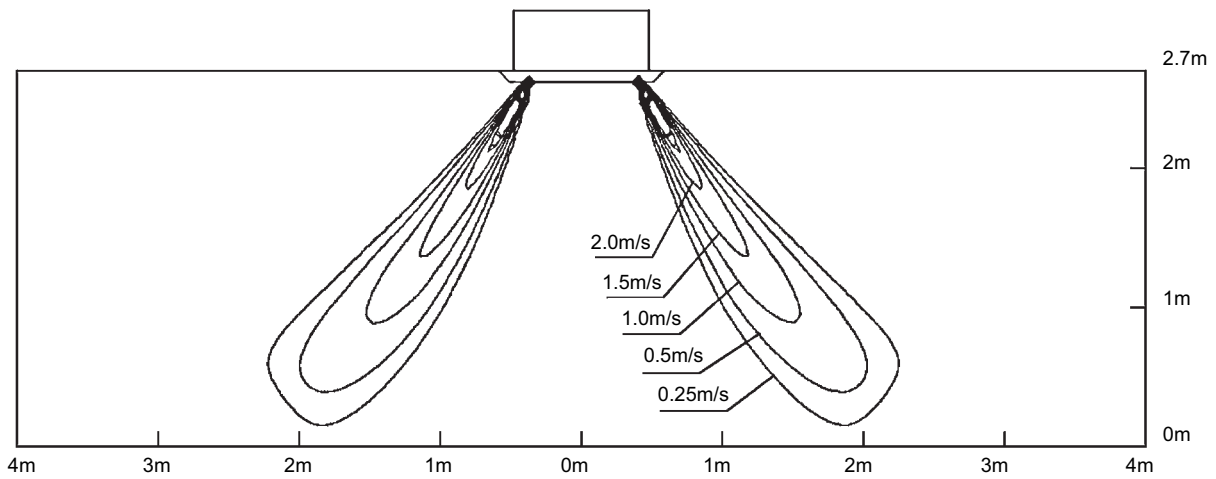


4D057202

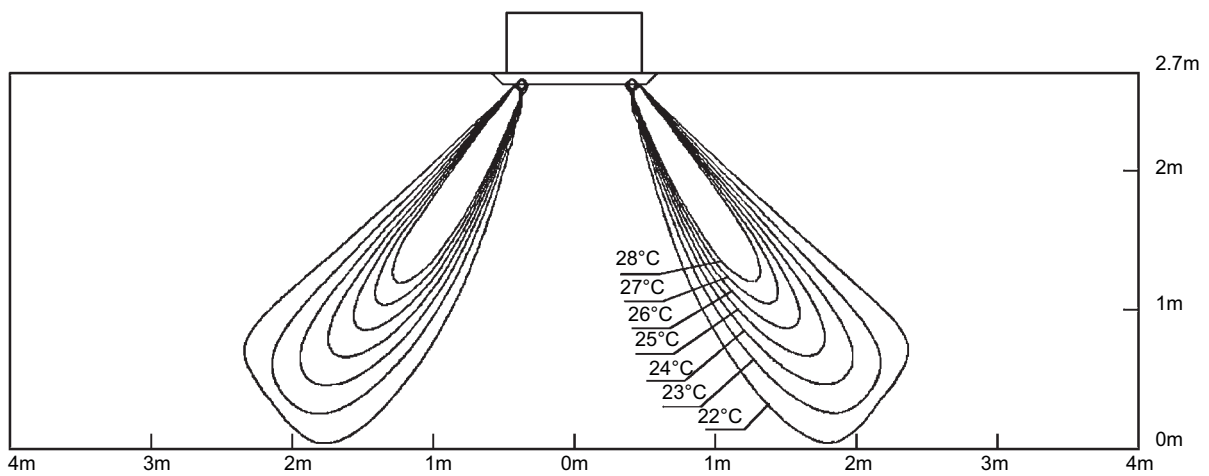
9 Air flow pattern

FCQ71C8

Heating air velocity distribution
 All round air discharge, air flow direction: horizontal



Heating air temperature distribution
 All round air discharge, air flow direction: horizontal

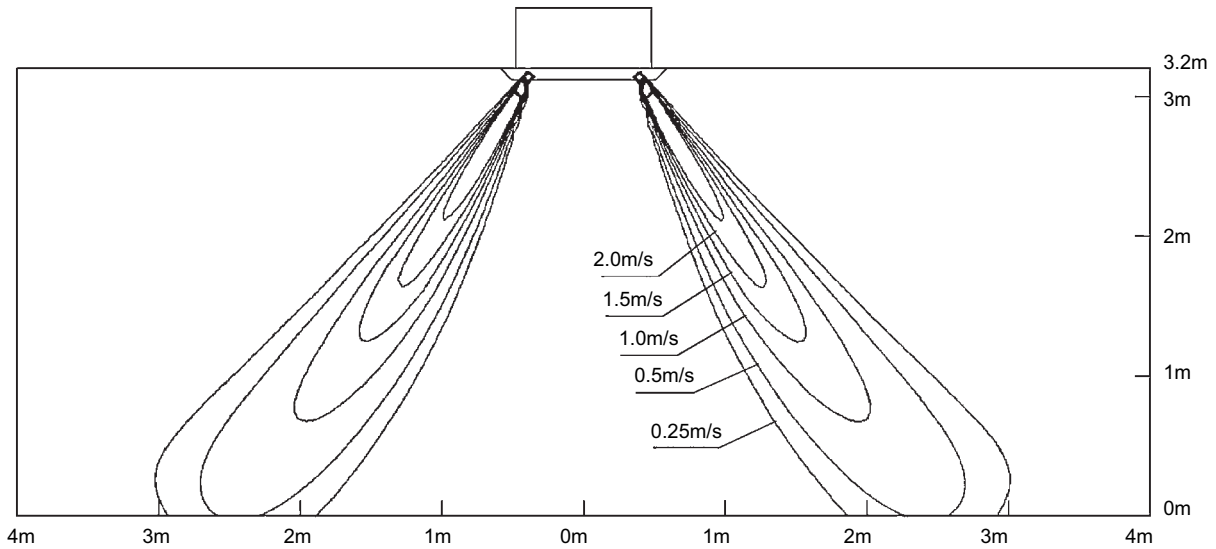


4D057204

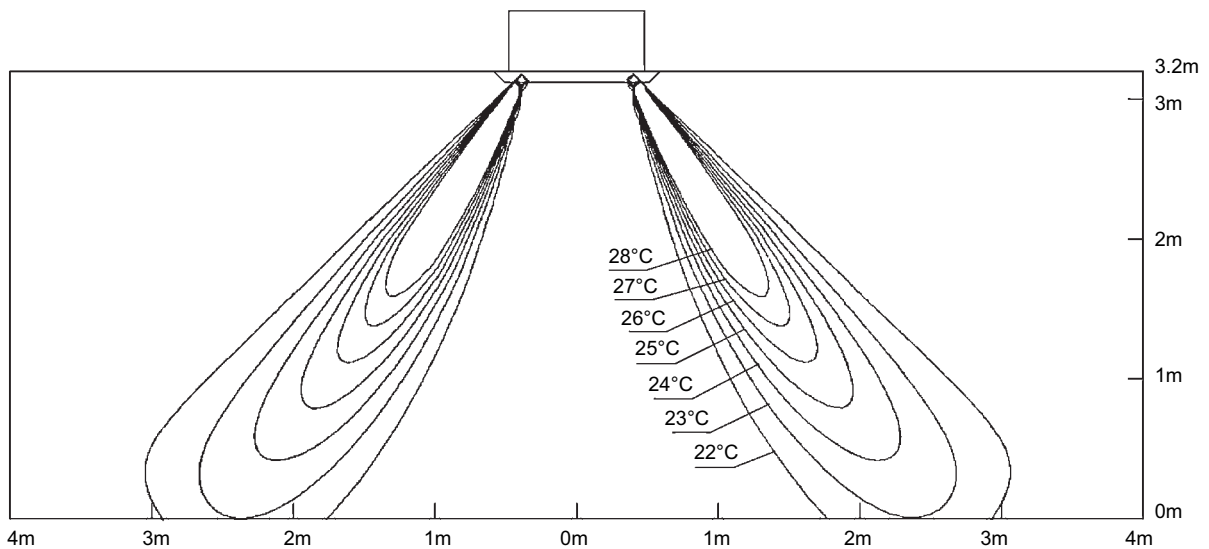
9 Air flow pattern

FCQ100C8

Heating air velocity distribution
 All round air discharge, air flow direction: horizontal



Heating air temperature distribution
 All round air discharge, air flow direction: horizontal

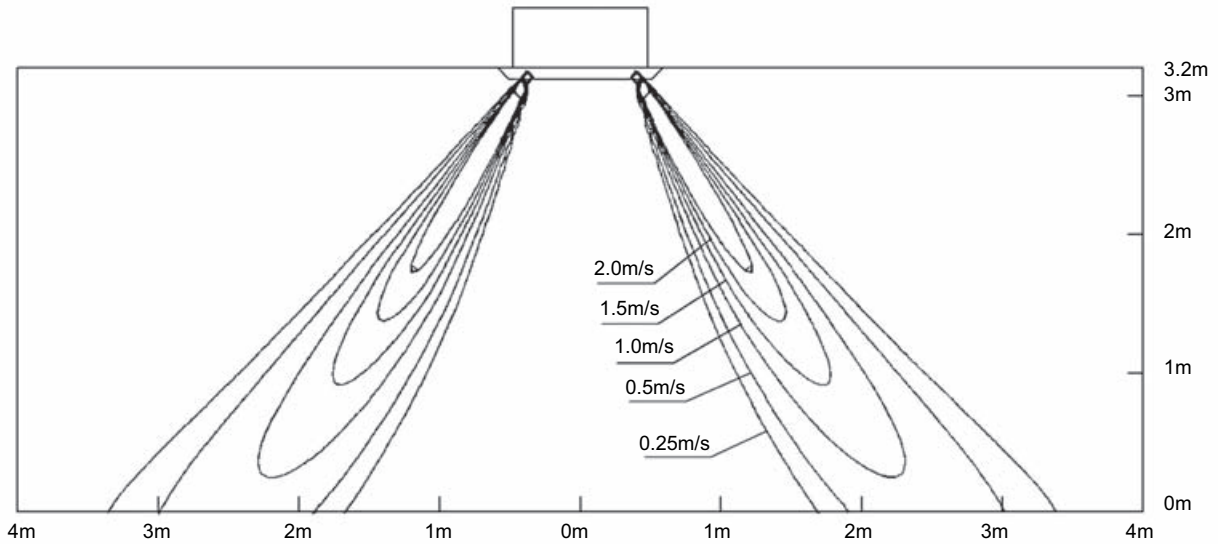


4D057206

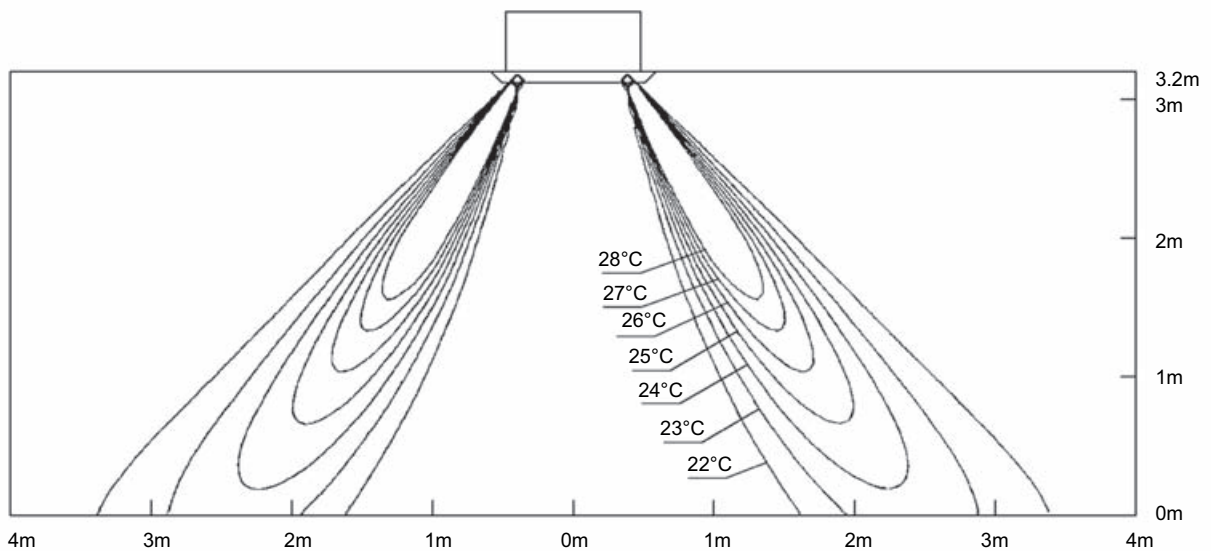
9 Air flow pattern

FCQ125C8

Heating air velocity distribution
 All round air discharge, air flow direction: horizontal



Heating air temperature distribution
 All round air discharge, air flow direction: horizontal



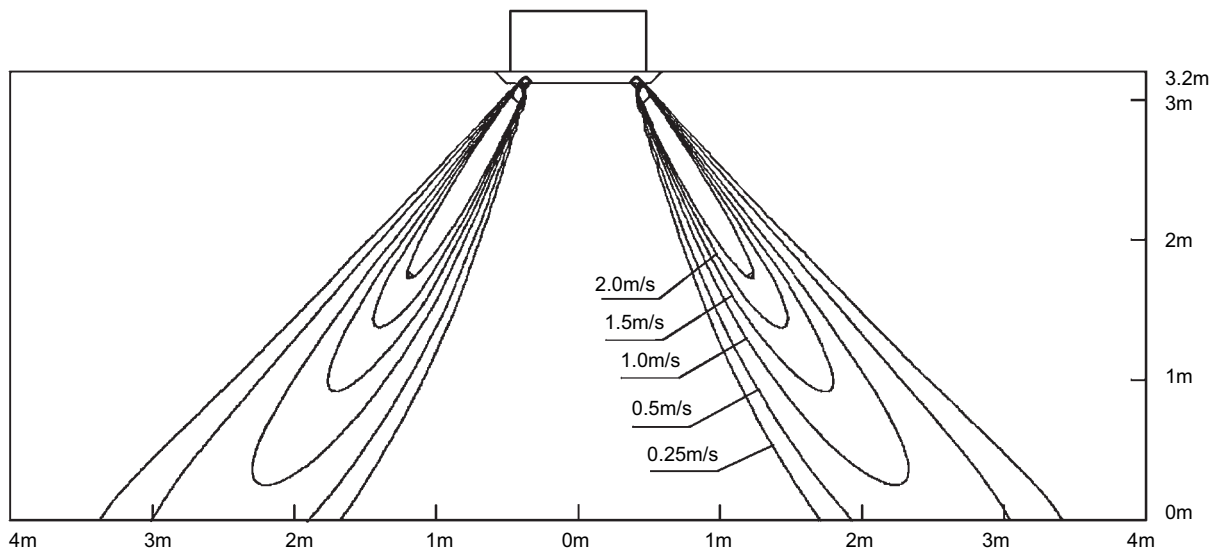
4D057208

9 Air flow pattern

FCQ140C8

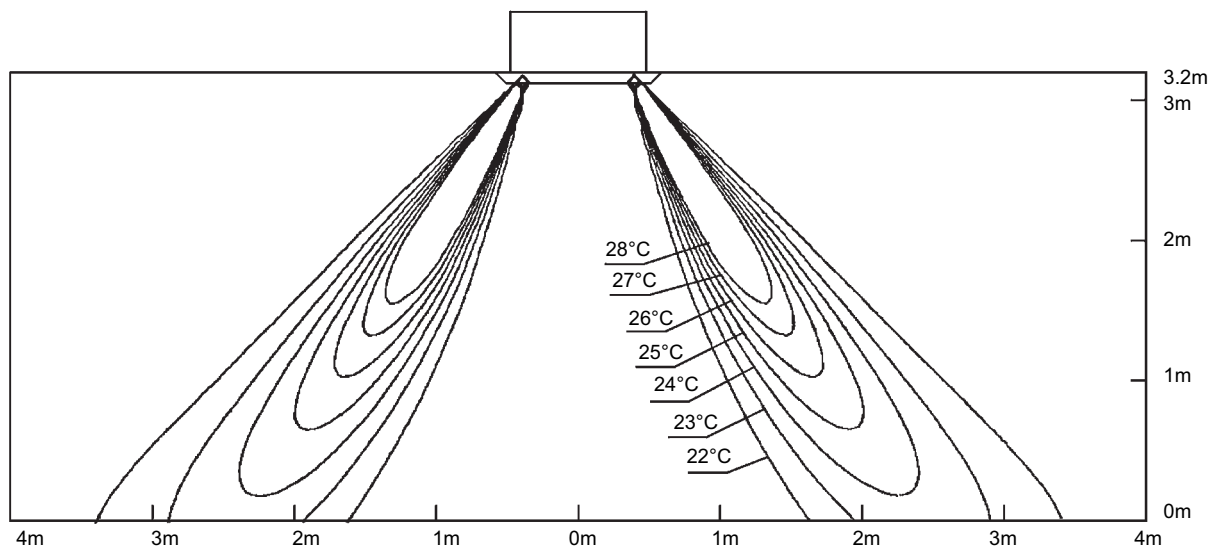
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D057210

In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

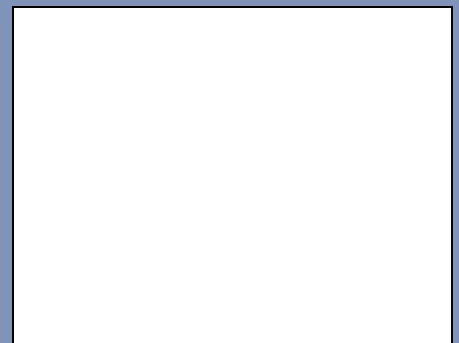


Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

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