1 Features

- Outdoor units for pair application
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



2 Specifications

| 2-1 NOMII NOMINAL IN | NAL CAPAC NPUT | ITY AND | | RN50E3V1B | RN60E3V1B |
|---|---------------------------------|-------------|-----|-------------------|-------------------|
| For combination indoor units + outdoor units | Indoor Units | | | FTN50FV1B | FTN60FV1B |
| Cooling capacity | Standard | kW | | 5.0 | 6.0 |
| Nominal input | Cooling | Standard | kW | 1.55 | 1.99 |
| For | EER | Nominal | | 3.23 | 3.02 |
| combination indoor units + outdoor units | Energy Labeling Directive | Cooling | | A | В |
| | Annual energy | consumption | kWh | 775 | 995 |
| | Indoor Units | | | FLKS50BAVMB | FBQ60B8V1 |
| Cooling capacity | Standard | kW | | 4.9 | 5.7 |
| Nominal input | Cooling | Standard | kW | 1.72 | 2.19 |
| For | EER | Nominal | | 2.85 | 2.60 |
| combination indoor units + outdoor units | Energy Labeling Directive | Cooling | | С | E |
| | Annual energy | consumption | kWh | 860 | 1095 |
| | Indoor Units | | | FBQ50B8V1 | FFQ60B8V1B |
| Cooling capacity | Standard | kW | | 5.0 | 5.8 |
| Nominal input | Cooling | Standard | kW | 1.92 | 2.07 |
| For | EER | Nominal | | 2.60 | 2.80 |
| combination indoor units + outdoor units | Energy Labeling Directive | Cooling | | E | D |
| | Annual energy | consumption | kWh | 960 | 1035 |
| | Indoor Units | oonounpiion | | FFQ50B8V1B | FCQ60C7VEB |
| Cooling capacity | Standard | kW | | 4.7 | 5.7 |
| Nominal input | Cooling | Standard | kW | 1.8 | 1.64 |
| For | EER | Nominal | | 2.61 | 3.48 |
| combination | Energy | Cooling | | D | A |
| indoor units + | Labeling | | | | |
| outdoor units | Directive | | | | |
| | Annual energy | consumption | KWN | 900 FCQ50C7VEB | 820 |
| Cooling | Indoor Units Standard | kW | | 5.0 | FHQ60BVV1B 5.7 |
| capacity | Stanuaru | KVV | | 5.0 | 5.7 |
| Nominal input | Cooling | Standard | kW | 1.41 | 2.15 |
| For | EER | Nominal | | 3.55 | 2.65 |
| combination indoor units + | Energy Labeling | Cooling | | A | D |
| outdoor units | Directive | | | | |
| | Annual energy | consumption | kWh | 705 | 1075 |
| | Indoor Units | | | FHQ | 50BVV1B |
| Cooling capacity | Standard | kW | | | 5.0 |
| Nominal input | Cooling | Standard | kW | | 1.83 |
| For | EER | Nominal | | | 2.73 |
| combination indoor units + | Energy Labeling | Cooling | _ | | D |
| outdoor units | Directive | | | | |

Specifications 2

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| 2-2 TECH | NICAL SPECI | FICATION | IS | RN50E3V1B | RN60E3V1B | | | | | | | | |
|-------------------|-------------------|----------------|----------|-------------------|--------------------|--|--|--|--|--|--|--|--|
| Casing | Colour | | | lvory | White | | | | | | | | |
| Dimensions | Unit | Height | mm | 735 | 735 | | | | | | | | |
| | | Width | mm | 825 | 825 | | | | | | | | |
| | | Depth | mm | 300 | 300 | | | | | | | | |
| | Packing | Height | mm | 797 | 797 | | | | | | | | |
| | 3 | Width | mm | 960 | 960 | | | | | | | | |
| | | Depth | mm | 390 | 390 | | | | | | | | |
| Weight | Unit | Doput | kg | 47 | 47 | | | | | | | | |
| weigin | Packed Unit | | | 52 | 52 | | | | | | | | |
| 11 | | Level | kg | | | | | | | | | | |
| Heat Exchanger | Dimensions | Length | mm | 845 | 845 | | | | | | | | |
| Exchanger | | Nr of Rows | | 2 | 2 | | | | | | | | |
| | | Fin Pitch | mm | 1.80 | 1.80 | | | | | | | | |
| | | Nr of Stage | es | 32 | 32 | | | | | | | | |
| | Tube type | | | Hi-X | a(8) | | | | | | | | |
| | Fin | Туре | | Waff | le fin | | | | | | | | |
| | | Treatment | | Anti-corrosion | treatment (PE) | | | | | | | | |
| Fan | Туре | | | Prop | 1 P | | | | | | | | |
| | Quantity | | | 1 | 1 | | | | | | | | |
| | Air Flow Rate | Cooling | m³/min | 48.9 | 50.9 | | | | | | | | |
| | (nominal at | Soomig | , | 0.0 | 00.0 | | | | | | | | |
| | 230V) | | | | | | | | | | | | |
| | Motor | Quantity | 1 | 1 | 1 | | | | | | | | |
| | | Model | | KFD-38 | | | | | | | | | |
| Motor | Speed | Cooling | rpm | 780 | 810 | | | | | | | | |
| WOUN | (nominal) | Cooling | ipin | 788 | 810 | | | | | | | | |
| Fan | Motor | Output | W | 53 | 53 | | | | | | | | |
| | Quantity | Output | | | 53 | | | | | | | | |
| Compressor | | M | | 1 1 2YC36BXD#A | | | | | | | | | |
| | Motor | Model | | | | | | | | | | | |
| | | Туре | | | d swing compressor | | | | | | | | |
| | | Motor | W | 1100 | 1100 | | | | | | | | |
| - | | Output | | | | | | | | | | | |
| Operation | Cooling | Min | °CDB | -10.0 | -10.0 | | | | | | | | |
| Range | | Max | °CDB | 46.0 | 46.0 | | | | | | | | |
| Sound Level | Cooling | Sound | dBA | 61.0 | 63.0 | | | | | | | | |
| (nominal) | | Power | | | | | | | | | | | |
| | | Sound | dBA | 47.0 | 49.0 | | | | | | | | |
| | | Pressure | | | | | | | | | | | |
| Refrigerant | Туре | | | R-4 | | | | | | | | | |
| | Charge | | kg | 1.5 | 1.5 | | | | | | | | |
| Refrigerant Oil | Туре | | | FVC | 50K | | | | | | | | |
| | Charged Volum | e | I | 0.65 | 0.65 | | | | | | | | |
| Piping | Liquid (OD) | Quantity | | 1 | 1 | | | | | | | | |
| connections | | Diameter | mm | 6.35 | 6.35 | | | | | | | | |
| | | (OD) | | | | | | | | | | | |
| | Gas | Quantity | • | 1 | 1 | | | | | | | | |
| | | Diameter | mm | 12.7 | 12.7 | | | | | | | | |
| | | (OD) | | | | | | | | | | | |
| | Drain | Quantity | <u> </u> | 1 | 1 | | | | | | | | |
| | | Diameter | mm | 18 | 18 | | | | | | | | |
| | | (OD) | | 10 | 10 | | | | | | | | |
| | Piping Length | Maximum | m | 30 | 30 | | | | | | | | |
| | | | | 10 | 10 | | | | | | | | |
| | | Chargele ss | m | IU | IU | | | | | | | | |
| | Additional Def | | ka/m | kg/m 0.02/>10m | | | | | | | | | |
| | Additional Refrig | yerant | kg/m | 0.02/5 | >1011 | | | | | | | | |
| | Max. internunit | ovol | | 00.0 | 00 | | | | | | | | |
| | | evei | m | 20.0 | 20 | | | | | | | | |
| | difference | | | | | | | | | | | | |

2 Specifications

| 2-2 TECHN | NICAL SPECIFICATIONS | RN50E3V1B RN60E3V1B | | | | | | | | | |
|-------------|----------------------|--|---|--|--|--|--|--|--|--|--|
| Standard | Item | Installation manual | | | | | | | | | |
| Accessories | Quantity | 1 | 1 | | | | | | | | |
| Notes | - | Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, | | | | | | | | | |
| | | equivalent refrigerant piping : 7.5m, level difference : 0m. | | | | | | | | | |

| 2-3 ELEC | TRICAL SPEC | IFICATIO | NS | RN50E3V1B | RN60E3V1B | | | | |
|--------------------|-------------------------------------|----------------|----|-------------------------|--------------------------|--|--|--|--|
| Power Supply | Name | | | V | 1 | | | | |
| | Phase | | | 1 | 1 | | | | |
| | Frequency | | Hz | 50 | 50 | | | | |
| | Voltage | | V | 220- | -240 | | | | |
| Current | Nominal running current (RLA) | Cooling (A) | A | 7.15 | 8.62 | | | | |
| | Starting current (heating) | (cooling/ | A | 7.6 | 9.2 | | | | |
| | Maximum Runni | ng Current | А | | 9.01 | | | | |
| Wiring connections | For Power Supply | Quantity | • | 3 | 3 | | | | |
| | For connection | Quantity | | 4 | 4 | | | | |
| | with indoor | Remark | | (included earth wiring) | (including earth wiring) | | | | |

3 Features



4 - 1 Cooling capacity tables

| FINSOF | V1B+R | N50E3 | V1B | | | | | | | | | | | | | | AFR | | 14.7 |
|------------------------------------|--|---|---------------------|--------------|--------------|--------------|----------------|-----------------------|--------------|--|--|--|---|--|--|--|---------------------------------|---|----------------------------|
| Cooling | | | | | | | | 2 | 20-240 | | | | | | | | BF | | 0.28 |
| EWB | oor EDB | | 20 | | | 25 | | | Out 30 | door temp | erature (°CI | DB) 32 | | 1 | 35 | | | 40 | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 5.12 | | 1.19 | 4.89 | 3.49 | 1.30 | 4.66 | 3.37 | 1.42 | 4.56 | 3.32 | 1.46 | 4.42 | 3.25 | 1.53 | 4.19 | 3.13 | 1.65 |
| 16.0 | 22 | 5.35 | | 1.20 | 5.12 | 3.43 | 1.31 | 4.89 | 3.32 | 1.43 | 4.79 | 3.27 | 1.47 | 4.65 | 3.21 | 1.54 | 4.42 | 3.10 | 1.65 |
| 18.0 19.0 | 25 27 | 5.58 5.70 | 3.69 3.86 | 1.20 1.21 | 5.35 5.47 | 3.58 3.75 | 1.32 1.32 | 5.12 5.23 | 3.47 3.65 | 1. 43 1. 44 | 5.02 5.14 | 3.43 3.61 | 1.48 1.48 | 4.88 | 3.37 3.55 | 1.55 1.55 | 4.65 4.77 | 3.26 3.45 | 1.66 1.66 |
| 22.0 | 30 | 6.04 | 3.71 | 1.22 | 5.81 | 3.62 | 1.33 | 5.58 | 3.52 | 1.45 | 5.49 | 3.49 | 1.49 | 5.35 | 3.43 | 1.56 | 5.11 | 3.35 | 1.67 |
| 24.0 | 32 | 6.27 | 3.60 | 1.22 | 6.04 | 3.52 | 1.34 | 5.81 | 3.43 | 1.45 | 5.72 | 3.40 | 1.50 | 5.58 | 3.35 | 1.57 | 5.34 | 3.27 | 1.68 |
| | SY | MBOL | 5 | | | | | | | | NC | DTES | | | | | | 3DC | 51926A |
| ■ AFR: | Air flov | | - | | | | (r | m ³ /min) | | 1 | | | own are | net cap | acities v | vhich ind | lude a (| deductic | n for |
| BF: EWB: | Bypass | | ulb tem | ~ | | | /0 | | | | ind | oor fan | | | | | | | |
| EDB: | Enterin | g dry b | ulb temp | μ.). | | | | °C) °C) | | 2 | | | | | | d) capaci | | | |
| tc: Shc: PI: | Sensibl | tal capacity (kW) 3 TC, PI and SHC mus nsible heating capacity (kW) figures in the above wer input (kW) used for calculation. | | | | | | | | | | re tables n.) | . (Figure | s out of | the tabl | les shou | ld not be | | |
| | | | | | | | | | | 4 | Ab the | out SHC m with | : which around | are not values i | mentior n direct | ned on th proporti | ne table on. | , please | calculate |
| | | | | | | | | | | 5 | Cap Cor | pacities | are base ding refi | | llowing | conditio | | | 7.5 m 0 m |
| FLKS50 | B+ RN | 50E | | | | | | | | | | | | | | | AFR | | 11.4 |
| Cooling | | ity | | | | | | 5 | 60Hz 22 | | | ~ | | | | | BF | | 0.18 |
| EWB | oor EDB | | 20 | | | 25 | | | 30 | utdoor tem | perature (°C | <u>.)</u> 32 | | | 35 | | | 40 | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | Pl | TC | SHC | Pl | TC | SHC | PI | TC | SHC | PI |
| 14.0 16.0 | 20 22 | 4.96 | 3.26 | 1.37 | 4.81 | 3.19 | 1.47 | 4.66 | 3.12 | 1.56 | 4.60 | 3.09 | 1.60 | 4.51 | 3.05 | 1.66 | 4.36 | 2.98 | 1.75 |
| 18.0 | 25 | 5.12 5.27 | 3.30 3.33 | 1.40 1.42 | 4.97 5.12 | 3.23 3.26 | 1.49 1.52 | 4.82 4.97 | 3.16 3.19 | 1.59 1.61 | 4.76 4.91 | 3.13 3.16 | 1.62 1.65 | 4.67 4.82 | 3.09 3.12 | 1.68 1.71 | 4.52 4.67 | 3.02 3.05 | 1.78 1.80 |
| 19.0 | 27 | 5.35 | 3.35 | 1.44 | 5.20 | 3.28 | 1.53 | 5.05 | 3.21 | 1.63 | 4.99 | 3.18 | 1.66 | 4.90 | 3.14 | 1.72 | 4.75 | 3.07 | 1.82 |
| 22.0 | 30 | 5.58 | 3.40 | 1.47 | 5.43 | 3.33 | 1.57 | 5.28 | 3.26 | 1.66 | 5.22 | 3.23 | 1.70 | 5.13 | 3.19 | 1.76 | 4.98 | 3.12 | 1.85 |
| 24.0 | 32 | 5.74 | 3.43 | 1.50 | 5.59 | 3.36 | 1.60 | 5.44 | 3.29 | 1.69 | 5.38 | 3.26 | 1.73 | 5.29 | 3.22 | 1. 79 | 5.14 | 3.15 | 1.88 |
| | | | | | | | | | | | | | | | | | | 30 | 051921 |
| - | | | | | | | | | | | | | | | | | | | |
| | | MBOL | 5 | | | | | - | | | | DTES | | | | | | | |
| | Air flov | v rate | 5 | | | | (r | m ³ /min) | | | ngs shov | | net capa | acities w | hich inc | lude a d | eductio | n for ind | oor fan |
| BF: EWB: | Air flov Bypass Enterin | v rate factor g wet b | oulb tem | | | | (° | CWB) | | mot | ngs shov or heat | wn are i | | | | lude a d and po\ | | | oor fan |
| BF: EWB: EDB: | Air flov Bypass Enterin Enterin | v rate factor g wet b g dry b | | | | | (° (° | °CWB) °CDB) | | mot 2 3. TC, | ngs shov or heat Sho PI and Si | wn are i ows noi HC mus | minal co t be cal | oling ca culated l | pacities by inter | and pov | wer inpu using th | ut ne figure | s in the |
| BF: EWB: EDB: TC: SHC: | Air flov Bypass Enterin Enterin Total c Sensibl | v rate factor g wet b g dry b apacity e heatir | oulb tem |). | | | (° (° (k | CWB) CDB) W) | | mot 2 3. TC, abo | ngs shov or heat Sho PI and Si | wn are i ows noi HC mus s. (Figure | minal co t be cal es out o | ooling ca culated f the tak | pacities by interp ples sho | and po | wer inpu using th | ut ne figure | s in the |
| BF: EWB: EDB: TC: SHC: | Air flow Bypass Enterin Enterin Total c | v rate factor g wet b g dry b apacity e heatir | ulb tem ulb temp |). | | | (° (° (k | °CWB) °CDB) «W) | | 2. 3. TC, abo 4. SHC SHC SHC | ngs shov or heat or Sho PI and Si ve table | wn are i ows noi HC mus s. (Figure d on ea correct 2 x AFR | minal cc t be cal es out o ch EWB ion for | ooling ca culated f the tak and EDI other dr | pacities by interp bles sho 3 y bulb | and pov polation uld not l | wer inpu using th | ut ne figure | s in the |
| EWB: EDB: TC: SHC: | Air flov Bypass Enterin Enterin Total c Sensibl | v rate factor g wet b g dry b apacity e heatir | ulb tem ulb temp |). | | | (° (° (k | CWB) CDB) W) | | 2. 3. TC, abo 4. SHC SHC SHC 5. Cap | ngs show for heat PI and Si ve tables is base is base is a base is bas is base is base is base is base is base is base is base is base | wn are i ows nor HC mus s. (Figure d on ea C correct 2 x AFR o SHC. re based | minal cc t be cal es out o ch EWB ion for (m ³ /mir d on fol | ooling ca culated l f the tak and EDI other dr n) x (1-B lowing o | pacities by interp bles sho 3 y bulb F) x (DB condition | and pov polation uld not b -EDB) | wer inpu using th | ut ne figure for calc | s in the ulation.) |
| BF: EWB: EDB: | Air flov Bypass Enterin Enterin Total c Sensibl | v rate factor g wet b g dry b apacity e heatir | ulb tem ulb temp |). | | | (° (° (k | CWB) CDB) W) | | 2. 3. TC, abo 4. SHC SHC SHC Adc 5. Cap Corr Lev | ngs shov for heat Pl and S is based to | wn are i bws nor HC mus s. (Figure d on ea C correct 2 x AFR b SHC. re base ing refrie ence: | minal cc t be cal es out o ch EWB ion for (m ³ /mir d on fol gerant p | ooling ca culated f the tak and EDI other dr h) x (1-B lowing c biping le | pacities by interp ples sho 3 y bulb F) x (DB condition ngth: | and pov polation uld not b -EDB) ns: | wer inpu using th pe used | ut he figure for calc 7.5 i 0 m | s in the ulation.) m |
| BF: EWB: EDB: TC: SHC: | Air flov Bypass Enterin Enterin Total c Sensibl | v rate factor g wet b g dry b apacity e heatir | ulb tem ulb temp |). | | | (° (° (k | CWB) CDB) W) | | 2. 3. TC, abo 4. SHC SHC SHC Adc 5. Cap Corr Lev | ngs shov for heat Pl and S is based to | wn are i bws nor HC mus s. (Figure d on ea C correct 2 x AFR b SHC. re base ing refrie ence: | minal cc t be cal es out o ch EWB ion for (m ³ /mir d on fol gerant p | ooling ca culated f the tak and EDI other dr h) x (1-B lowing c biping le | pacities by interp ples sho 3 y bulb F) x (DB condition ngth: | and pov polation uld not b -EDB) | wer inpu using th pe used | ut he figure for calc 7.5 i 0 m | s in the ulation.) m |
| BF: EWB: EDB: TC: SHC: | Air flov Bypass Enterin Enterin Total c Sensibl | v rate factor g wet b g dry b apacity e heatir | ulb tem ulb temp |). | | | (° (° (k | CWB) CDB) W) | | 2. 3. TC, abo 4. SHC SHC SHC Adc 5. Cap Corr Lev | ngs shov for heat Pl and S is based to | wn are i bws nor HC mus s. (Figure d on ea C correct 2 x AFR b SHC. re base ing refrie ence: | minal cc t be cal es out o ch EWB ion for (m ³ /mir d on fol gerant p | ooling ca culated f the tak and EDI other dr h) x (1-B lowing c biping le | pacities by interp ples sho 3 y bulb F) x (DB condition ngth: | and pov polation uld not b -EDB) ns: | wer inpu using th pe used | ut he figure for calc 7.5 i 0 m | s in the ulation.) m |
| BF: EWB: EDB: TC: SHC: | Air flov Bypass Enterin Enterin Total c Sensibl | v rate factor g wet b g dry b apacity e heatir | ulb tem ulb temp |). | | | (° (° (k | CWB) CDB) W) | | 2. 3. TC, abo 4. SHC SHC SHC Adc 5. Cap Corr Lev | ngs shov for heat Pl and S is based to | wn are i bws nor HC mus s. (Figure d on ea C correct 2 x AFR b SHC. re base ing refrie ence: | minal cc t be cal es out o ch EWB ion for (m ³ /mir d on fol gerant p | ooling ca culated f the tak and EDI other dr h) x (1-B lowing c biping le | pacities by interp ples sho 3 y bulb F) x (DB condition ngth: | and pov polation uld not b -EDB) ns: | wer inpu using th pe used | ut he figure for calc 7.5 i 0 m | s in the ulation.) m |

4 - 1 Cooling capacity tables

| FFO50B8V1E | +RN50E3V1B |
|------------|------------|

| FFQ50B | 8V1B+ | RN50E | 3V1B | | | | | | | | | | | | | | AFR | | 12.0 |
|---------|-------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Cooling | J | | | | | | | | | | | | | | | | 0.16 | | |
| Indo | α | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
| EWB | EDB | | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 4.76 | 3.51 | 1.45 | 4.61 | 3.44 | 1.55 | 4.46 | 3.37 | 1.64 | 4.40 | 3.34 | 1.68 | 4.31 | 3.30 | 1.74 | 4.16 | 3.23 | 1.83 |
| 16.0 | 22 | 4.92 | 3.54 | 1.48 | 4.77 | 3.47 | 1.57 | 4.62 | 3.40 | 1.67 | 4.56 | 3.38 | 1.70 | 4.47 | 3.33 | 1.76 | 4.32 | 3.26 | 1.86 |
| 18.0 | 25 | 5.07 | 3.58 | 1.50 | 4.92 | 3.51 | 1.60 | 4.77 | 3.44 | 1.69 | 4.71 | 3.41 | 1.73 | 4.62 | 3.37 | 1.79 | 4.47 | 3.30 | 1.88 |
| 19.0 | 27 | 5.15 | 3.59 | 1.52 | 5.00 | 3.52 | 1.61 | 4.85 | 3.45 | 1,71 | 4.79 | 3.43 | 1.74 | 4,70 | 3.38 | 1.80 | 4,55 | 3.31 | 1.90 |
| 22.0 | 30 | 5.38 | 3.65 | 1.55 | 5.23 | 3.58 | 1.65 | 5.08 | 3.51 | 1.74 | 5.02 | 3.48 | 1.78 | 4.93 | 3.44 | 1.84 | 4,78 | 3.37 | 1.93 |
| 24.0 | 32 | 5.54 | 3.68 | 1.58 | 5.39 | 3.61 | 1.68 | 5.24 | 3.54 | 1,77 | 5.18 | 3.51 | 1.81 | 5.09 | 3.47 | 1.87 | 4.94 | 3.40 | 1.96 |
| | | | | | | | | | | | | | | | | | | 36 | 041021 |
| | | | | | | | | | | | | | | | | | | 50 | |
| | SY | MBOLS | 5 | | | | | | _ | | NC | DTES | | | | | | | |

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| MBOLS | |
|--------------------|---|
| v rate | (m ³ /min) |
| factor | |
| g wet bulb temp. | (°C) |
| g dry bulb temp. | (°C) |
| apacity | (kW) |
| e heating capacity | (kW) |
| input | (kW) |
| | v rate factor g wet bulb temp. g dry bulb temp. apacity e heating capacity |

NOTES

Ratings shown are net capacities which include a deduction for indoor fan motor heat shows nominal (rated) capacities and power input. TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.) SHC is based on each EWB and EDB SHC* = SHC correction for other dry bulb =0.02*AFR(m3/min.)*(1-BF)*(DB*-EDB) Add SHC* to SHC. Capacities are based on following conditions: Corresponding refrigerant piping length: 7.5 m 0 m Level difference:

Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 - 1 Cooling capacity tables

| 40 | | |
|-----------------------------|-------------------|---------------------------------|
| SHC | | P |
| 3,3 3,4 3,4 3,4 | 3,3 3,4 3,4 | 1,9 1,9 2,0 2,0 2,0 |
| | | 2,0 |
| 3TW251 | 3TW25 | :5112 |
| | | |
| a deduction nd power inp | | |
| | //// | input |
| | | |
|)/860 IC |) | |
| | | |
| | | 7.5 n 0 m |
| ourated abo | ed aboʻ | ove. |
| | | |
| | | |
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4 - 1 Cooling capacity tables

| - | | RN50E | 3V1B | | | | | | | | | | | FCQ50C7VEB+RN50E3V1B AFR 125 Cooling 220-240V [50Hz] BF 0.21 | | | | | | | | | | | | | |
|--|---|--|---|--|--------------------------------------|--|--|--|--|---|---|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|--|
| | • | | | | | | | 2 | | | - | | | | | | RF | | 0.21 | | | | | | | | |
| Inde | | | 20 | | | 25 | | | | tdoor tempe | erature (°CE | | | | 25 | | | 40 | | \square | | | | | | | |
| EWB (°C) | EDB (°C) | TC | 20 SHC | PI | TC | 25 SHC | PI | TC | 30 SHC | PI | TC | 32 SHC | PI | TC | 35 SHC | PI | TC | 40 SHC | PI | _ | | | | | | | |
| 14.0 | 20 | 5.12 | 3.56 | 1.08 | 4.89 | 3.43 | 1.19 | 4.66 | 3.31 | 1.29 | 4.56 | 3.26 | 1.33 | 4.42 | 3.18 | 1.39 | 4.19 | | | | | | | | | | |
| 16.0 | 22 | 5.35 | 3.49 | 1.09 | 5.12 | 3.37 | 1.19 | 4.89 | 3.26 | 1.30 | 4.79 | 3.21 | 1.34 | 4.65 | 3.14 | 1.40 | 4.42 | | _ | | | | | | | | |
| 18.0 | 25 | 5.58 | 3.62 | 1.09 | 5.35 | 3.50 | 1.20 | 5.12 | 3.40 | 1.30 | 5.02 | 3.35 | 1.34 | 4.88 | 3.29 | 1.41 | 4.65 | | | | | | | | | | |
| 19.0 | 27 | 5.70 | 3.77 | 1.10 | 5.47 | 3.67 | 1.20 | 5.23 | 3.56 | 1.31 | 5.14 | 3.52 | 1.35 | 5.00 | 3.46 | 1.41 | 4.77 | | | | | | | | | | |
| 22.0 | 30 | 6.04 | 3.62 | 1.11 | 5.81 | 3.53 | 1.21 | 5.58 | 3.44 | 1.32 | 5.49 | 3.40 | 1.36 | 5.35 | 3.34 | 1.42 | 5.11 | | 5 1.5 | <u>52</u> | | | | | | | |
| 24.0 | 32 | 6.27 | 3.52 | 1.11 | 6.04 | 3.43 | 1.22 | 5.81 | 3.34 | 1.32 | 5,72 | 3,31 | 1.36 | 5.58 | 3.26 | 1.43 | 5.34 | 3.18 | 3 1.5 | 53 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 3D0572 | 249 | | | | | | | |
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| | SYMBOLS NOTES AFP: Air flow rate (m³/min) 1. Capacities are based on the following conditions: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AFR: | AFR: Air flow rate (m ³ /min) 1. Capacities are based on the following conditions: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BF: | BF: Bypass factor (1) Corresponding refrigerant piping length: 5 m | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EWB: Entering wet bulb temp. (°C) (2) Level difference: 0 m | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TC: Total capacity (kW) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHC: PI: | SHC: Sensible heating capacity (kW) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F1. | Power | input | | | | | (| KVV) | | | | | | | | | | | | | | | | | | | |
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| Thicor | 3./4.0 - 0 | | | | | | | | | | | | | | | | | | 4.6 | | | | | | | | |
| FTN60F | | RN60E3 | V1B | | | | | | | | | | | | | | AFR | | 16.2 | | | | | | | | |
| Cooling | 9 | RN60E3 | V1B | | | | | 2 | 20-240 | - | - | | | | | | AFR BF | | 16.2 0.2 | | | | | | | | |
| | g por | RN60E3 | | | | 25 | | 2 | Οι | - | z] Jerature (°C | | | | | | | | 0.29 | | | | | | | | |
| Cooling | D Dor EDB | RN60E3 | 20 | | TC | 25 SHC | PI | 2 | | - | - | 32 | PI | TC | 35 SHC | PI | | 40 | 0.29 | | | | | | | | |
| Cooling Indo EWB (°C) | Dor EDB (°C) | TC | 20 SHC | | | SHC | | TC | 0u 30 SHC | utdoor temp | erature (°C | 32 SHC | | - | SHC | | BF | 40 | 0.29 | PI | | | | | | | |
| Cooling Inda EWB (°C) 14.0 | Door EDB (°C) 20 | TC 5.60 | 20 SHC 3.94 | 1.49 | 5.60 | SHC 3.94 | 1.66 | TC 5.59 | 0u 30 SHC 3.94 | PI | erature (°C TC 5.48 | 32 SHC 3.88 | 1.88 | 5.31 | SHC 3.79 | 1.97 | BF TC 5.03 | 40 SHG 3 3.6 | 0.29 54 2. | PI | | | | | | | |
| Cooling Indo EWB (°C) | Dor EDB (°C) | TC | 20 SHC | | | SHC | | TC | Ou 30 SHC 3.94 3.88 | utdoor temp | TC 5.48 5.75 | 32 SHC | | 5.31 5.59 | SHC 3.79 3.74 | 1.97 | BF TC 5.03 | 40 SHO 3 3.6 1 3.6 | 0.29 54 2. 50 2. | PI | | | | | | | |
| Cooling Inda EWB (°C) 14.0 16.0 | Dor EDB (°C) 20 22 | тс 5.60 6.42 | 20 SHC 3.94 4.17 4.31 4.49 | 1.49 1.54 1.54 1.55 | 5.60 6.14 6.42 6.56 | SHC 3.94 4.02 4.17 4.36 | 1.66 1.68 1.69 1.70 | TC 5.59 5.86 6.14 6.28 | OL 30 SHC 3.94 3.88 4.04 4.23 | Pl 1.82 1.83 1.84 1.84 | TC 5.48 5.75 6.03 6.17 | 32 SHC 3.88 3.82 | 1.88 1.89 | 5.31 5.59 5.86 | SHC 3.79 3.74 3.91 | 1.97 1.98 1.99 | BF TC 5.03 5.58 | 40 SHC 3 3.6 1 3.6 3 3.7 | 0.29 64 2. 60 2. 78 2. | 9 Pl .12 .12 | | | | | | | |
| Cooling Inde EWB (°C) 14.0 16.0 18.0 | Dor EDB (°C) 20 22 25 27 30 | тс 5.60 6.42 6.70 6.84 7.25 | 20 SHC 3.94 4.17 4.31 4.49 | 1.49 1.54 1.54 1.55 | 5.60 6.14 6.42 | SHC 3.94 4.02 4.17 4.36 | 1.66 1.68 1.69 1.70 | TC 5.59 5.86 6.14 6.28 | OL 30 SHC 3.94 3.88 4.04 | Pl 1.82 1.83 1.84 1.84 | erature (°C TC 5.48 5.75 6.03 6.17 | 32 SHC 3.88 3.82 3.99 4.18 4.04 | 1.88 1.89 1.90 1.90 | 5.31 5.59 5.86 6.00 | SHC 3.79 3.74 3.91 | 1.97 1.98 1.99 1.99 | BF TC 5.03 5.58 5.58 | 40 SHC 3 3.6 1 3.6 3 3.7 | 0.29 64 2. 60 2. 78 2. 98 2. | 9 Pl .12 .12 .13 .14 | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 | Dor EDB (°C) 20 22 25 27 | TC 5.60 6.42 6.70 6.84 | 20 SHC 3.94 4.17 4.31 4.49 | 1.49 1.54 1.54 1.55 | 5.60 6.14 6.42 6.56 | SHC 3.94 4.02 4.17 4.36 | 1.66 1.68 1.69 1.70 | TC 5.59 5.86 6.14 6.28 | OL 30 SHC 3.94 3.88 4.04 4.23 | Pl 1.82 1.83 1.84 1.84 | erature (°C TC 5.48 5.75 6.03 6.17 | 32 SHC 3.88 3.82 3.99 4.18 | 1.88 1.89 1.90 1.90 | 5.31 5.59 5.86 6.00 6.41 | SHC 3.79 3.74 3.91 4.10 3.97 | 1.97 1.98 1.99 1.99 | BF TC 5.03 5.58 5.72 6.14 | 40 SHC 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 | 0.29 64 2. 60 2. 78 2. 98 2. 98 2. | 9 Pl .12 .12 .13 .14 | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 | Dor EDB (°C) 20 22 25 27 30 | тс 5.60 6.42 6.70 6.84 7.25 | 20 SHC 3.94 4.17 4.31 4.49 4.31 | 1.49 1.54 1.54 1.55 1.56 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 | TC 5.59 5.86 6.14 6.28 6.69 | 01 30 SHC 3.94 3.88 4.04 4.23 4.08 | Pl 1.82 1.83 1.84 1.84 1.84 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 | 32 SHC 3.88 3.82 3.99 4.18 4.04 | 1.88 1.89 1.90 1.90 1.91 | 5.31 5.59 5.86 6.00 6.41 | SHC 3.79 3.74 3.91 4.10 3.97 | 1.97 1.98 1.99 1.99 2.00 | BF TC 5.03 5.58 5.72 6.14 | 40 SHC 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 | 0.29 64 2. 60 2. 78 2. 98 2. 98 2. | 9 Pl .12 .12 .13 .14 .15 .16 | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 | Dor EDB (°C) 20 22 25 27 30 | тс 5.60 6.42 6.70 6.84 7.25 | 20 SHC 3.94 4.17 4.31 4.49 4.31 | 1.49 1.54 1.54 1.55 1.56 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 | TC 5.59 5.86 6.14 6.28 6.69 | 01 30 SHC 3.94 3.88 4.04 4.23 4.08 | Pl 1.82 1.83 1.84 1.84 1.84 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 | 32 SHC 3.88 3.82 3.99 4.18 4.04 | 1.88 1.89 1.90 1.90 1.91 | 5.31 5.59 5.86 6.00 6.41 | SHC 3.79 3.74 3.91 4.10 3.97 | 1.97 1.98 1.99 1.99 2.00 | BF TC 5.03 5.58 5.72 6.14 | 40 SHC 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 | 0.2 64 2. 60 2. 78 2. 98 2. 99 2 | 9 Pl .12 .12 .13 .14 .15 .16 | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 | 2 DOI EDB (°C) 20 22 25 27 30 32 | тс 5.60 6.42 6.70 6.84 7.25 | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.54 1.55 1.56 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 | TC 5.59 5.86 6.14 6.28 6.69 | 01 30 SHC 3.94 3.88 4.04 4.23 4.08 | Pl 1.82 1.83 1.84 1.84 1.84 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 | 32 SHC 3.88 3.82 3.99 4.18 4.04 | 1.88 1.89 1.90 1.90 1.91 | 5.31 5.59 5.86 6.00 6.41 | SHC 3.79 3.74 3.91 4.10 3.97 | 1.97 1.98 1.99 1.99 2.00 | BF TC 5.03 5.58 5.72 6.14 | 40 SHC 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 | 0.2 64 2. 60 2. 78 2. 98 2. 99 2 | 9 Pl .12 .12 .13 .14 .15 .16 | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 | 2 Dor EDB (°C) 20 22 25 27 30 32 SY Air flov | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.54 1.55 1.56 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.84 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 | 32 5HC 3.88 3.82 3.99 4.18 4.04 3.93 | 1.88 1.89 1.90 1.90 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 | SHC 3.79 3.74 3.91 4.10 3.97 3.87 | 1.97 1.98 1.99 1.99 2.00 2.01 | BF TC 5.03 5.33 5.58 5.72 6.14 6.4 | 40 SHC 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 | 0.29 04 2. 00 2. 78 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 09 2. 00 2. 0000000000 | 9 Pl .12 .13 .14 .15 .16 927A | | | | | | | |
| Cooling EWB (°Q) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: | 2007 EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.84 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Rai | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 | 1.88 1.89 1.90 1.90 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 | SHC 3.79 3.74 3.91 4.10 3.97 3.87 | 1.97 1.98 1.99 1.99 2.00 2.01 | BF TC 5.03 5.33 5.58 5.72 6.14 6.4 | 40 SHC 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 | 0.29 04 2. 00 2. 78 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 08 2. 09 2. 00 2. 0000000000 | 9 Pl .12 .13 .14 .15 .16 927A | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: | Dor EDB (°C) 20 22 25 27 30 32 SY Air flov Bypass Enterin | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.84 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Rai | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 DTES | 1.88 1.89 1.90 1.90 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 | SHC 3.79 3.74 3.91 4.10 3.97 3.87 | 1.97 1.98 1.99 1.99 2.00 2.01 | BF TC 5.03 5.58 5.72 6.14 6.4 | 40 SH0 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 2 3.9 4 3.8 1 3.7 3 3.7 2 3.9 4 3.8 1 3.7 3 3.7 4 3.8 1 3.7 1 3.7 1 3.7 1 3.7 1 3.7 1 3.8 1 | 0.29 34 2. 30 2. 38 2. 38 2. 30 2. 30 2. 30 3. 30 5. 30 | 9 P .12 .12 .13 .14 .15 .16 927A | | | | | | | |
| Cooling Inde EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: EDB: | Dor EDB (°C) 20 22 25 27 30 32 SY Air flov Bypass Enterin Enterin | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dry bu | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 m ³ /min) °C) °C) °C) | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 OTES tings she loor fan | 1.88 1.89 1.90 1.90 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c | SHC 3.79 3.74 3.91 4.10 3.97 3.87 pacities nal (rate alculate | 1.97 1.98 1.99 2.00 2.01 which ii d) capa | BF TC 5.03 5.58 5.72 6.14 6.4 nclude cities and expolation | 40 5H0 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 a dedu nd pow on usir | 0.25 14 2 . 14 2 . 16 2 . 18 2 . 18 2 . 18 2 . 16 2 . 17 2 . 3 D0515 ction for ver inp ing the | 9 Pl .12 .13 .14 .15 .16 927A | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: EDB: TC: SHC: | Dor EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass Enterin Enterin Total c Sensib | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dy bu g dy bu g apacity le heatin | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 OTES tings she loor fan | 1.88 1.89 1.90 1.90 1.91 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c ve table | SHC 3.79 3.74 3.91 4.10 3.97 3.87 pacities nal (rate alculate | 1.97 1.98 1.99 2.00 2.01 which ii d) capa | BF TC 5.03 5.58 5.72 6.14 6.4 nclude cities and expolation | 40 5H0 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 a dedu nd pow on usir | 0.25 14 2 . 14 2 . 16 2 . 18 2 . 18 2 . 18 2 . 16 2 . 17 2 . 3 D0515 ction for ver inp ing the | 9 Pl .12 .13 .14 .15 .16 927A | | | | | | | |
| Cooling Inde EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EVB: EDB: TC: | Dor EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass Enterin Enterin Total c | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dy bu g dy bu g apacity le heatin | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 m ³ /min) °C) °C) °C) kW) | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 1.86 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration TC figures | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 OTES tings she loor fan , PI and ures in t ed for ca | 1.88 1.89 1.90 1.90 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c ve table m.) | SHC 3.79 3.74 3.91 4.10 3.97 3.87 pacities nal (rate alculated s. (Figure | 1.97 1.98 1.99 2.00 2.01 which in d) capa d by inte | BF TC 5.03 5.58 5.72 6.14 6.4 nclude cities and expolation of the tage | 40 5H(3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 a dedu a dedu nd pow on usir bles sh | 0.25 4 2. 6 2. 7 2. 8 2. 8 2. 9 2. 1 2. 1 2. 1 2. 1 2. 1 2. 1 2. 1 2. | 9 Pl .12 .13 .14 .15 .16 Souther the second | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: EDB: TC: SHC: | Dor EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass Enterin Enterin Total c Sensib | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dy bu g dy bu g apacity le heatin | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 m ³ /min), °C) °C) kW) kW) | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | Pl 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration TC figures Ab | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 OTES tings sho loor fan , PI and ures in t ed for ca pout SHC | 1.88 1.89 1.90 1.90 1.91 1.91 1.92 | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c ve table on.) are not | SHC 3.79 3.74 3.91 4.10 3.97 3.87 pacities nal (rate alculated s. (Figure s. mentio | 1.97 1.98 1.99 2.00 2.01 which in d) capa d by inte es out conned on | BF TC 5.03 5.58 5.72 6.14 6.4 nclude cities and expolation of the tab the tab | 40 5H(3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 a dedu a dedu nd pow on usir bles sh | 0.25 4 2. 6 2. 7 2. 8 2. 8 2. 9 2. 1 2. 1 2. 1 2. 1 2. 1 2. 1 2. 1 2. | 9 Pl .12 .13 .14 .15 .16 Souther the second | | | | | | | |
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| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: EDB: TC: SHC: | Dor EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass Enterin Enterin Total c Sensib | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dy bu g dy bu g apacity le heatin | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 m ³ /min), °C) °C) kW) kW) | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | PI 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 3 4 5 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration TC figures Ab the Ca Co Le | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 0 DTES tings she loor fan out SHC em with pacities rrespon vel diffe | 1.88 1.89 1.90 1.90 1.91 1.92 0 0 1.91 1.92 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c ve table m.) are not t values sed on fi frigerant | SHC 3.79 3.74 3.91 4.10 3.97 3.87 9acities nal (rate alculated s. (Figure in direct ollowing t piping | 1.97 1.98 1.99 2.00 2.01 which in d) capa d by inte es out con propor g condit length: | TC 5.03 5.58 5.72 6.14 6.4 nclude a cities an erpolati f the tab tion. ions: | 40 5H0 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 1 3.7 1 3.7 | 0.24 0.24 0 2. 0 2. 8 2. 8 2. 8 2. 8 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 | 9 Pl .12 .13 .14 .15 .16 out. not be culate | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: EDB: TC: SHC: | Dor EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass Enterin Enterin Total c Sensib | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dy bu g dy bu g apacity le heatin | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 m ³ /min), °C) °C) kW) kW) | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | PI 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 3 4 5 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration TC figures Ab the Ca Co Le | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 0 DTES tings she loor fan out SHC em with pacities rrespon vel diffe | 1.88 1.89 1.90 1.90 1.91 1.92 1.91 1.92 0000 are about the about t | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c ve table m.) are not t values sed on fi frigerant | SHC 3.79 3.74 3.91 4.10 3.97 3.87 9acities nal (rate alculated s. (Figure in direct ollowing t piping | 1.97 1.98 1.99 2.00 2.01 which in d) capa d by inte es out con propor g condit length: | TC 5.03 5.58 5.72 6.14 6.4 nclude a cities an erpolati f the tab tion. ions: | 40 5H0 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 1 3.7 1 3.7 | 0.24 0.24 0 2. 0 2. 8 2. 8 2. 8 2. 8 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 | 9 Pl .12 .13 .14 .15 .16 out. not be culate | | | | | | | |
| Cooling EWB (°C) 14.0 16.0 18.0 19.0 22.0 24.0 AFR: BF: EWB: EDB: TC: SHC: | Dor EDB (°C) 20 22 25 27 30 32 30 32 SY Air flov Bypass Enterin Enterin Total c Sensib | TC 5.60 6.42 6.70 6.84 7.25 7.53 WBOLS w rate factor g wet b g dy bu g dy bu g apacity le heatin | 20 SHC 3.94 4.17 4.31 4.49 4.31 4.18 | 1.49 1.54 1.55 1.56 1.57 | 5.60 6.14 6.42 6.56 6.97 | SHC 3.94 4.02 4.17 4.36 4.19 | 1.66 1.68 1.69 1.70 1.71 1.72 | TC 5.59 5.86 6.14 6.28 6.69 6.97 6.97 m ³ /min), °C) °C) °C) kW) kW) | OL 30 5HC 3.94 3.88 4.04 4.23 4.08 3.97 | PI 1.82 1.83 1.84 1.84 1.86 1.86 1.86 1.86 3 4 5 | erature (°C TC 5.48 5.75 6.03 6.17 6.58 6.86 NC Ration TC figures Ab the Ca Co Le | 32 SHC 3.88 3.82 3.99 4.18 4.04 3.93 0 DTES tings she loor fan out SHC em with pacities rrespon vel diffe | 1.88 1.89 1.90 1.90 1.91 1.92 1.91 1.92 0000 are about the about t | 5.31 5.59 5.86 6.00 6.41 6.69 e net ca heat vs nomi ust be c ve table m.) are not t values sed on fi frigerant | SHC 3.79 3.74 3.91 4.10 3.97 3.87 9acities nal (rate alculated s. (Figure in direct ollowing t piping | 1.97 1.98 1.99 2.00 2.01 which in d) capa d by inte es out con propor g condit length: | TC 5.03 5.58 5.72 6.14 6.4 nclude a cities an erpolati f the tab tion. ions: | 40 5H0 3 3.6 1 3.6 3 3.7 2 3.9 4 3.8 1 3.7 1 3.7 1 3.7 | 0.24 0.24 0 2. 0 2. 8 2. 8 2. 8 2. 8 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 2. 9 | 9 Pl .12 .13 .14 .15 .16 out. not be culate | | | | | | | |

4 - 1 Cooling capacity tables

| FFQ60B | 8V1B+ | -RN60E | 3V1B | | | | | | | | | | | | | | AFR | | 15.0 |
|--------------|-------|--------|------|------|------|------|------|------|------|------------|-------------|------|------|------|------|------|------|------|---------|
| Cooling | J | | | | | | | | 230V | [50Hz] | | | | | | | BF | | 0.11 |
| Indo | or | | | | | | | | Ou | tdoor temp | erature (°C | DB) | | | | | | | |
| EWB | EDB | | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 5.86 | 4.30 | 1.72 | 5,71 | 4.23 | 1.82 | 5.56 | 4.16 | 1.91 | 5.50 | 4.13 | 1.95 | 5.41 | 4.09 | 2.01 | 5.26 | 4.02 | 2.10 |
| 16.0 | 22 | 6.02 | 4.34 | 1,75 | 5.87 | 4.27 | 1.84 | 5.72 | 4.20 | 1.94 | 5.66 | 4.17 | 1.97 | 5.57 | 4.13 | 2.03 | 5.42 | 4.06 | 2.13 |
| 18.0 | 25 | 6.17 | 4.37 | 1,77 | 6.02 | 4.30 | 1.87 | 5.87 | 4.23 | 1.96 | 5.81 | 4.20 | 2.00 | 5.72 | 4.16 | 2.06 | 5.57 | 4.09 | 2.15 |
| 19.0 | 27 | 6.25 | 4.39 | 1.79 | 6.10 | 4.32 | 1.88 | 5.95 | 4.25 | 1,98 | 5.89 | 4.22 | 2.01 | 5.80 | 4.18 | 2.07 | 5.65 | 4.11 | 2.17 |
| 22.0 | 30 | 6.48 | 4.44 | 1.82 | 6.33 | 4.37 | 1.92 | 6.18 | 4.30 | 2.01 | 6.12 | 4.27 | 2.05 | 6.03 | 4.23 | 2.11 | 5.88 | 4.16 | 2.20 |
| <u>2</u> 4.0 | 32 | 6.64 | 4.47 | 1.85 | 6.49 | 4.40 | 1.95 | 6.34 | 4.33 | 2.04 | 6.28 | 4.30 | 2.08 | 6.19 | 4.26 | 2.14 | 6.04 | 4.19 | 2.23 |
| | | | | | | | | | | | | | | | | | | 31 | D041026 |

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| | SYMBOLS | |
|------|---------------------------|-----------------------|
| AFR: | Air flow rate | (m ³ /min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°C) |
| EDB: | Entering dry bulb temp. | (°C) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |

NOTES Ratir ٦ŀ

| Ratings shown are net capacities which include a dedu indoor fan motor heat | uction for |
|---|--------------|
| shows nominal (rated) capacities and pow | wer input. |
| TC, PI and SHC must be calculated by interpolation usi figures in the above tables. (Figures out of the tables s used for calculation.) | |
| SHC is based on each EWB and EDB SHC* = SHC correction for other dry bulb =0.02*AFR(m3/min.)*(1-BF)*(DB*-EDB) Add SHC* to SHC. | |
| Capacities are based on following conditions: Corresponding refrigerant piping length: Level difference: | 7.5 m 0 m |

Air flow rate (AFR) and Bypass factor (BF) are taburated above.

Cooling capacity tables 4 - 1

FBQ60B8V1+RN60E3V1B

| - | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--------------|--------------|------------|------------|------|------------|------------|--------------|------------|--------------|--------------|------------|------------|------|------------|------|------|------------|------------|----------|
| Coolin | g | | | | | | | | 220- | 240V [! | 50Hz] | | | | | | | | | |
| Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | | | | |
| Outdoor | EWB | EDB | | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | |
| | (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 60 | 14,0 | 20,0 | 5,8 | 4,6 | 1,84 | 5,6 | 4,6 | 1,94 | 5,5 | 4,5 | 2,03 | 5,4 | 4,5 | 2,07 | 5,3 | 4,4 | 2,13 | 5,2 | 4,3 | 2,22 |
| | 16,0 18,0 | 22,0 25,0 | 5,9 6,1 | 4,7 | 1,87 | 5,8 5,9 | 4,6 4,6 | 1,96 1,99 | 5,6 5,8 | 4,5 4,6 | 2,06 2,08 | 5,6 5,7 | 4,5 4,5 | 2,10 | 5,5 5,6 | 4,5 | 2,15 | 5,9 5,5 | 4,4 4,4 | 2,25 |
| | 19,0 | 27,0 | 6,2 | 4,7 | 1,91 | 6,0 | 4,6 | 2,00 | 5,9 | 4,6 | 2,10 | 5,8 | 4,5 | 2,13 | 5,7 | 4,5 | 2,19 | 5,6 | 4,4 | 2,29 |
| | 22,0 24.0 | 30,0 32,0 | 6,4 6.5 | 4,8 4.8 | 1,95 | 6,2 6,4 | 4,7 47 | 2,04 2.07 | 6,1 | 4,6 4,7 | 2,14 2.18 | 6,0 6,2 | 4,6 4,6 | 2,17 | 5,9 6.1 | 4,6 | 2,23 | 5,8 | 4,5 4,5 | 2,33 |
| | 24,0 | 32,0 | 0,3 | 1 4,0 | 1 | 0,4 | 4,/ | 2,07 | 6,2 | <u> 4,7</u> | 2,10 | 0,4 | [4,0 | 2,20 | 0,1 | .4,0 | 2,20 | 5,9 | | 2,3 |
| | | | | | | | | | | | | | | | | | | | 3TW2 | 25112-11 |

| | SYMBOLS | | | NOTES |
|---|--|---|------------------|--|
| AFR: BF: EWB: EDB: DB*: TC: SHC: PI: | Air flow rate Bypass factor Entering wet bulb temp. Entering dry bulb temp. Dry bulb temp. Total capacity Sensible heating capacity Power input | (m ³ /min) (°CWB) (°CDB) (°CDB) (kW) (kW) (kW) | 1 2 3 4 | Ratings shown are net capacities which include a deduction for indoor fan motor heat shows nominal (rated) capacities and power input. SHC is based on each EWB and EDB SHC* = SHC correction for other dry bulb = $0.29 \times 60 \times AFR [m^3/min.] \times (1-BF) \times (DB^*-EDB)/860$ Add SHC* to SHC if SHC > TC, then TC equal SHC Direct interpolation is permissible. |
| | | | · | Do not extrapolate. |
| | | | | |

5

7.5 m 0 m Level difference: Air flow rate (AFR) and Bypass factor (BF) are taburated above. 6

Capacities are based on following conditions:

Corresponding refrigerant piping length:

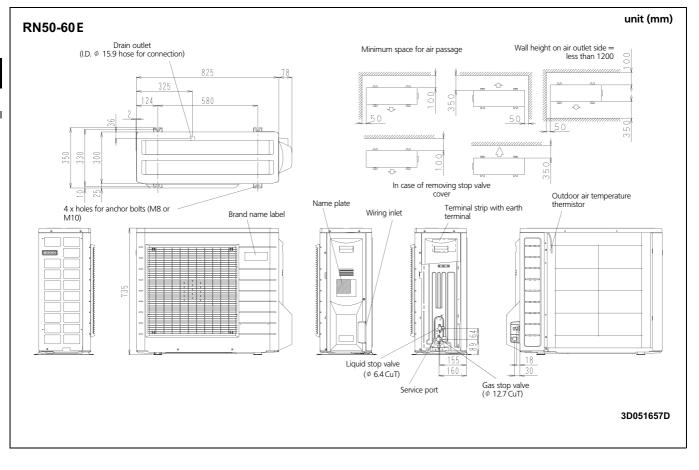
| Model | | FBQ |
|-------|-----|------|
| 35 | AFR | 11.5 |
| 20 | BF | 0.15 |
| 50 | AFR | 14 |
| 00 | BF | 0.15 |
| 60 | AFR | 19 |
| 60 | BF | 0.11 |

4 - 1 Cooling capacity tables

| FCQ60C7VEB+RN60E3V1B AFR 13.5 | | | | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|--------|------------|--------------|------|------|------|------|------|------|------|--------|
| Coolin | g | | | | | | | 22 | 20-240 | / [50Hz | <u>z]</u> | | | | | | BF | | 0.21 |
| Indoor | | | | | | | | | Out | door tempe | erature (°CD | B) | | | | | | | |
| EWB | EDB | | 20 | | | 25 | | | 30 | | 32 | | | 35 | | | 40 | | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 5.84 | 4.01 | 1.26 | 5.57 | 3.86 | 1.38 | 5.31 | 3.72 | 1.50 | 5.20 | 3.66 | 1.55 | 5.04 | 3.58 | 1.62 | 4.78 | 3.44 | 1.74 |
| 16.0 | 22 | 6.10 | 3.94 | 1.27 | 5.84 | 3.80 | 1.39 | 5.57 | 3.67 | 1.51 | 5.47 | 3.61 | 1.56 | 5.31 | 3.53 | 1.63 | 5.04 | 3.40 | 1.75 |
| 18.0 | 25 | 6.36 | 4.07 | 1.27 | 6.10 | 3.94 | 1.39 | 5.83 | 3.81 | 1.52 | 5.73 | 3.76 | 1.56 | 5.57 | 3.69 | 1.64 | 5.30 | 3.56 | 1.76 |
| 19.0 | 27 | 6.50 | 4.24 | 1.28 | 6.23 | 4.11 | 1.40 | 5.97 | 3.99 | 1.52 | 5.86 | 3.94 | 1.57 | 5.70 | 3.87 | 1.64 | 5.43 | 3.75 | 1.76 |
| 22.0 | 30 | 6.89 | 4.07 | 1.29 | 6.62 | 3.95 | 1.41 | 6.36 | 3.85 | 1.53 | 6.25 | 3.80 | 1.58 | 6.09 | 3.74 | 1.65 | 5.83 | 3.63 | 1.77 |
| 24.0 | 32 | 7.15 | 3.94 | 1.29 | 6.89 | 3.84 | 1.42 | 6.62 | 3.74 | 1.54 | 6.52 | 3.70 | 1.59 | 6.36 | 3.64 | 1.66 | 6.09 | 3.54 | 1.78 |
| | | | | | | | | | | | | | | | | | | 3D | 057251 |
| SYMBOLS AFR: Air flow rate (m ³ /min) BF: Bypass factor 0 EWB: Entering wet bulb temp. (°C) EDB: Entering dry bulb temp. (°C) TC: Total capacity (kW) SHC: Sensible heating capacity (kW) PI: Power input (kW) | | | | | | | | | | | | | | | | | | | |

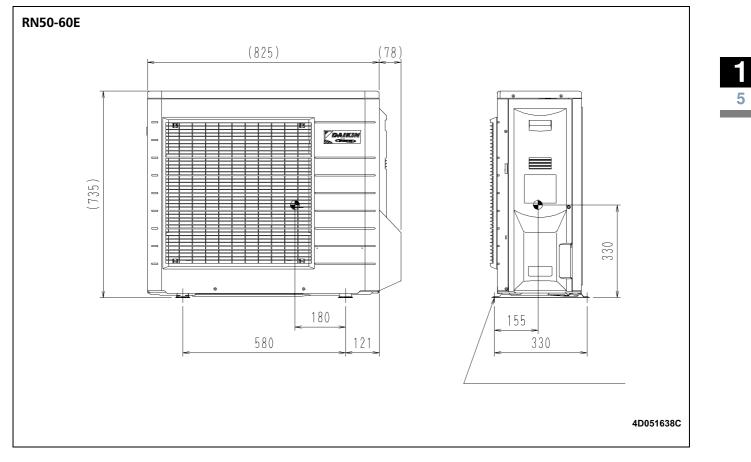
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

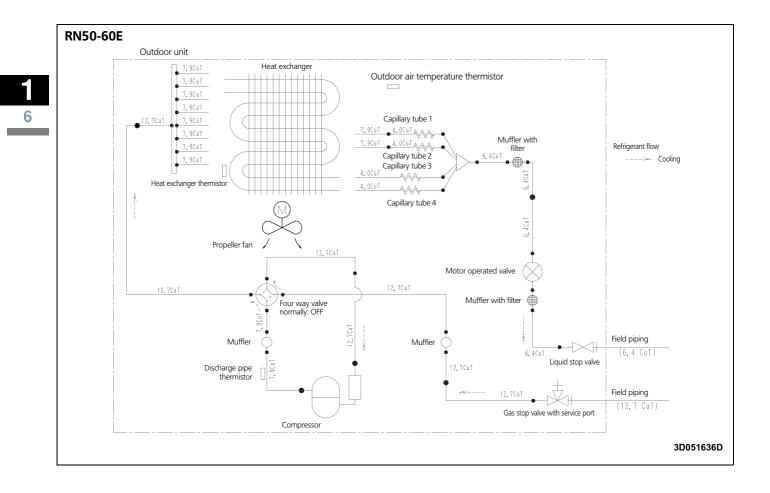


5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

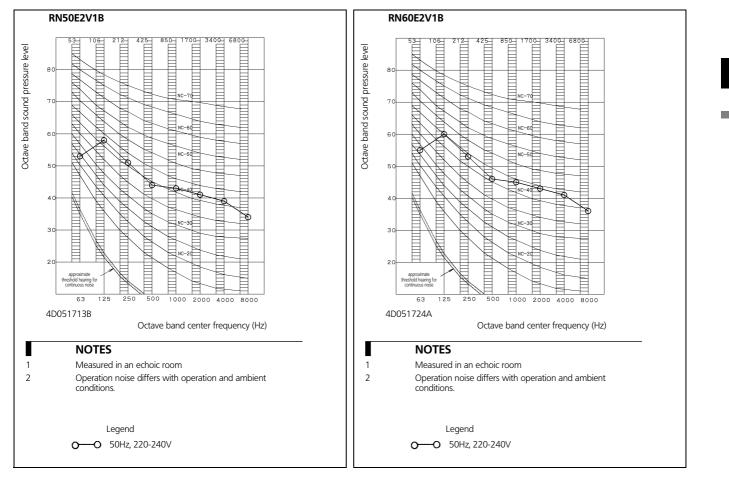


6 Piping diagram



7 Sound data

7 - 1 Sound pressure spectrum



8 Operation range

