DAIKIN

R410A

# TECHNICAL MANUAL

## Inverter Single Split Series Air Conditioner

**FTK-J, FTXN-J Series**

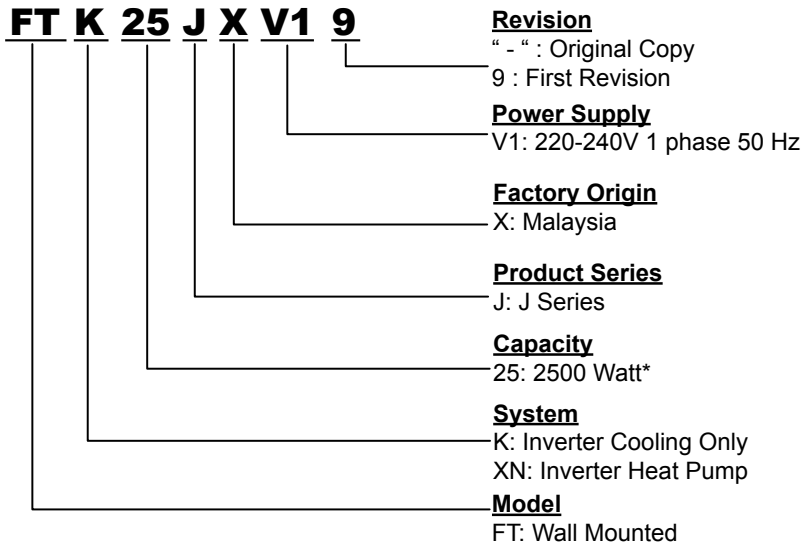
## — Cooling only & Heatpump [50Hz] —


TM-5WMY-J-ST-A2

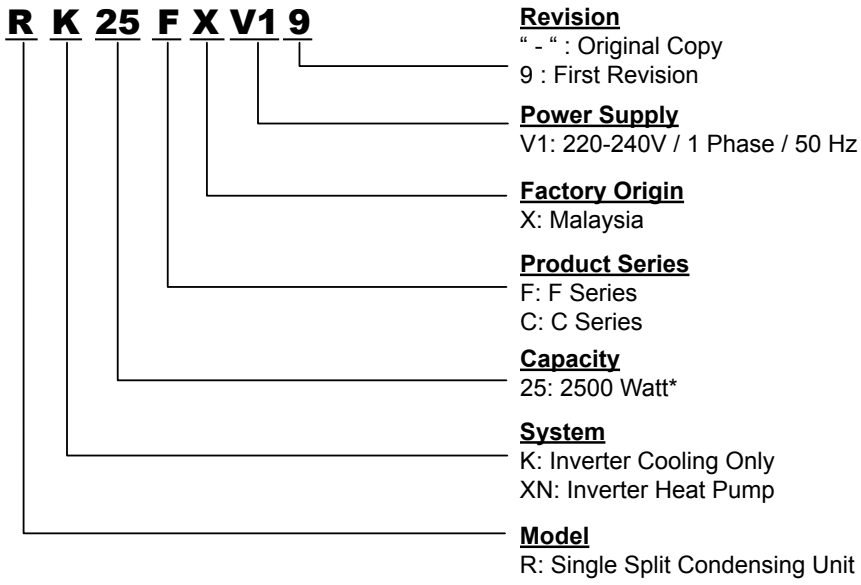
# Table of Contents

# Nomenclature

## Indoor




## Outdoor




Remark:
* : Capacity value under Nomenclature is an indication.
Please refer to Engineering and Physical Data for exact capacity value.

## Product Line-Up

### Indoor Unit
### FTK, FTXN

| Nomenclature | | Classification | | | | | |
|---|---|---|---|---|---|---|---|
| | | Handset | | PCB | | Air Purification | |
| | | BRC52A62 | BRC52A61 | W_2_03C | W_2_04A | Saranet Filter | Titanium Apatite Filter |
| COOLING | FTK25JXV19 | X | | X | | X | X |
| | FTK35JXV19 | X | | X | | X | X |
| | FTK50JXV19 | X | | | X | X | X |
| | FTK60JXV19 | X | | | X | X | X |
| HEATPUMP | FTXN25JXV1 | | X | X | | X | X |
| | FTXN35JXV1 | | X | X | | X | X |
| | FTXN50JXV1 | | X | | X | X | X |
| | FTXN60JXV1 | | X | | X | X | X |

**Outdoor Unit**
**RK, RXN**

| Nomenclature | | Refrigerant Control | | PCB | | | Fin | | | Compressor | Others |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Cap Tube | EXV | Main PCB (ADGPA31) | Main PCB (2P273854) | Filter PCB (3P273862) | Hydrophilic (Blue) | Hydrophilic (Gold) | Bare Aluminium | Swing | Drain Elbow |
| COOLING | RK25FXV19 | | X | X | | | | | X | X | |
| | RK35FXV19 | | X | X | | | | | X | X | |
| | RK50CXV19 | | X | | X | X | | | X | X | |
| | RK60CXV19 | | X | | X | X | | | X | X | |
| HEATPUMP | RXN25FXV1 | | X | X | | | X | | | X | X |
| | RXN35FXV1 | | X | X | | | X | | | X | X |
| | RXN50CXV1 | | X | | X | X | X | | | X | X |
| | RXN60CXV1 | | X | | X | X | X | | | X | X |

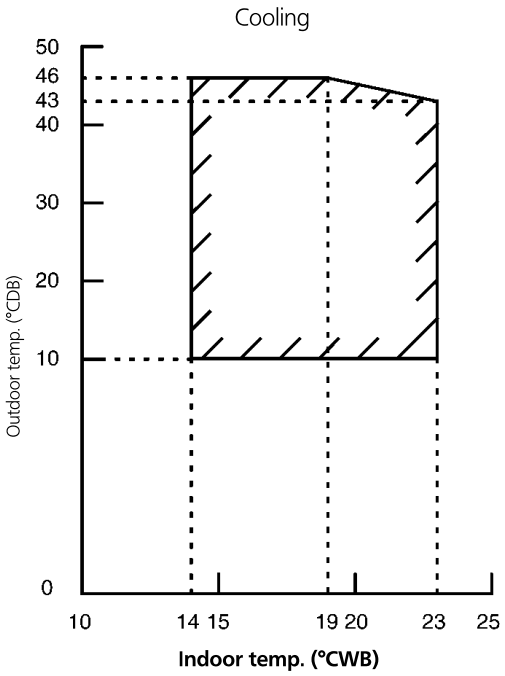
# Application Information

## Operating Range

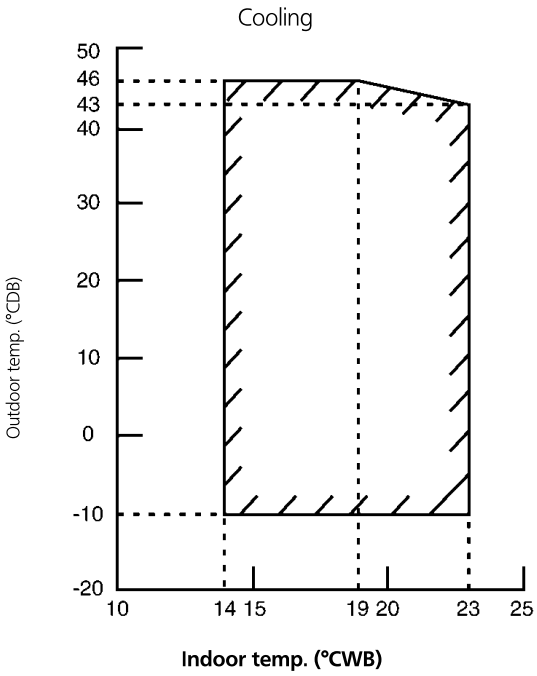
Ensure the operating temperature is in allowable range.

### Cooling

**FTK25/35JXV19 – RK25/35FXV19**
**FTXN25/35JXV1 – RXN25/35FXV1**

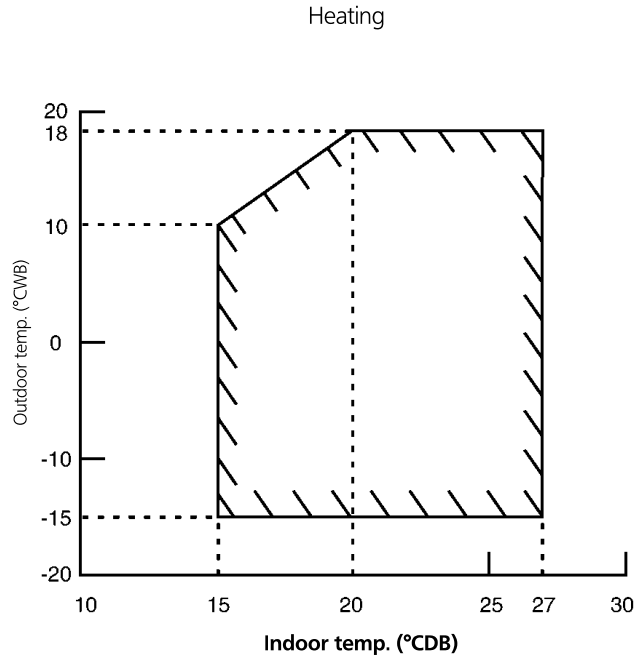



**FTK50/60JXV19 – RK50/60CXV19**
**FTXN50/60JXV1 – RXN50/60CXV1**




### Heating

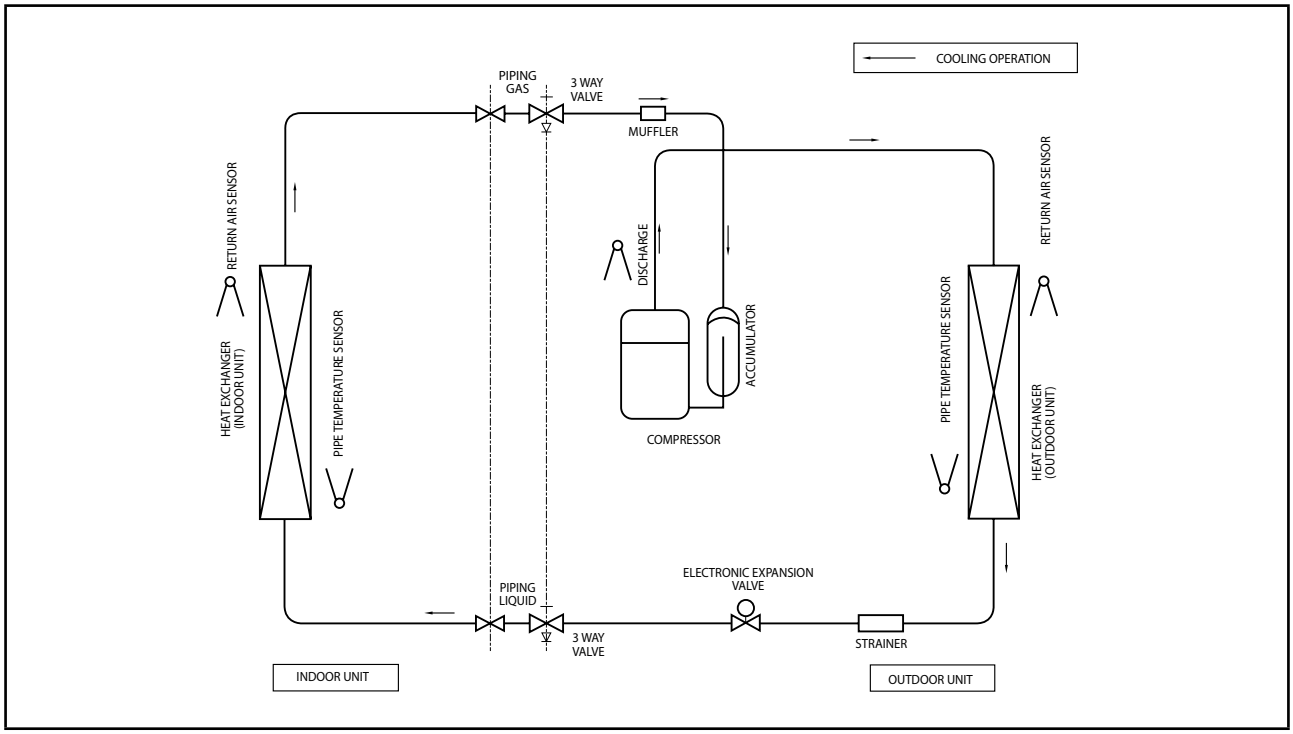
**FTXN25/35/50/60JXV1 – RXN25/35FXV1;50/60CXV1**



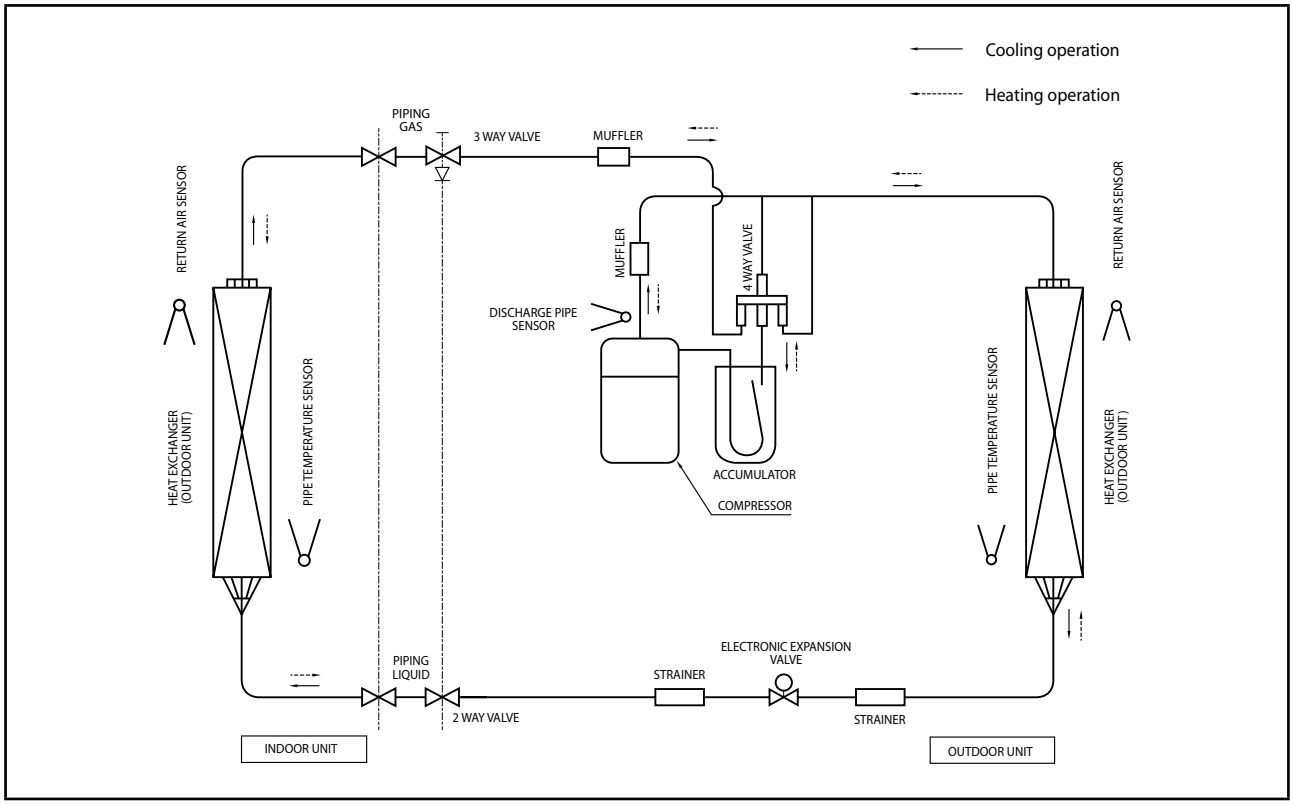

DB: Dry bulb WB: Wet bulb

## Refrigerant Circuit Diagrams

**Model: FTK25JXV19 – RK25FXV19 / FTK35JXV19 – RK35FXV19 / FTK50JXV19 – RK50CXV19 / FTK60JXV19 – RK60CXV19**




**Model: FTXN25JXV1 – RXN25FXV1 / FTXN35JXV1 – RXN35FXV1 / FTXN50JXV1 – RXN50CXV1 / FTXN60JXV1 – RXN60CXV1**

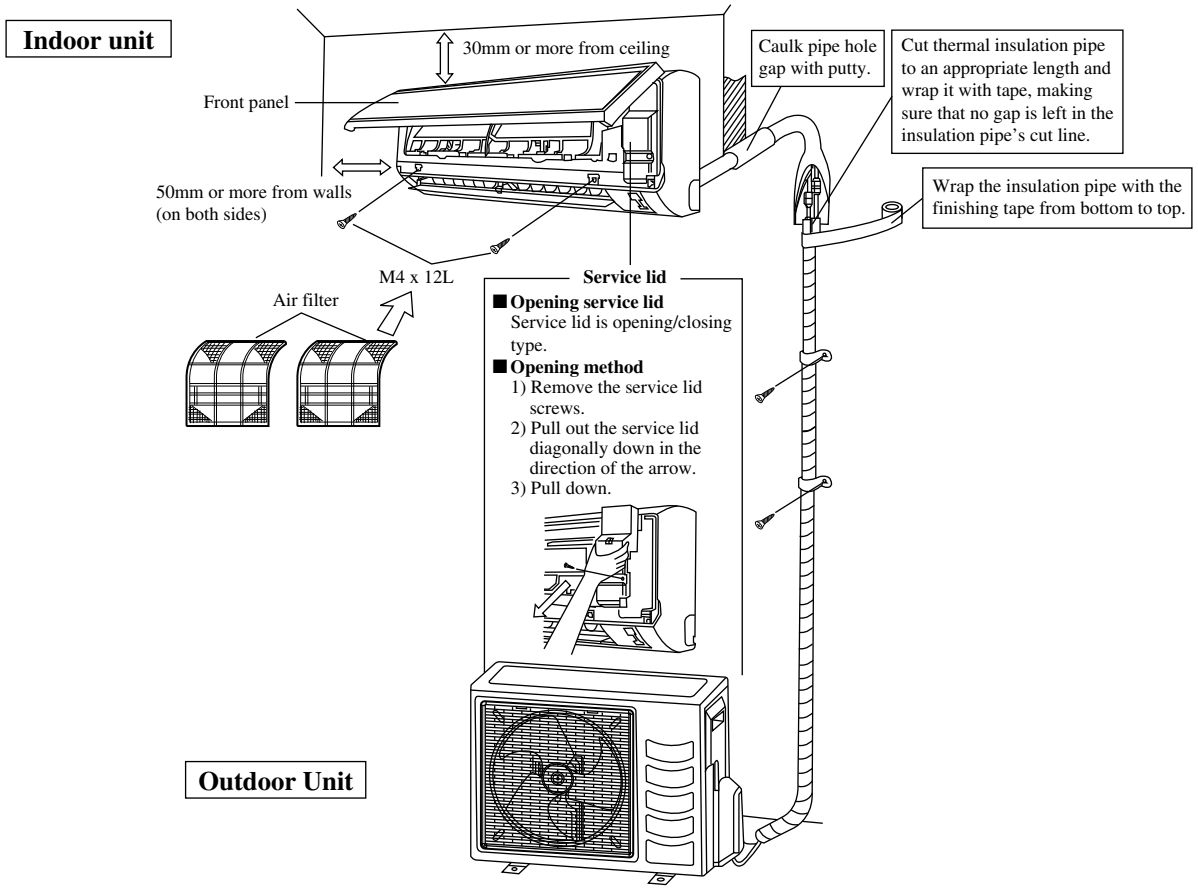


## Installation Guideline

**⚠ Caution**

**Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.**

## Installation Diagram



## Outdoor Clearance

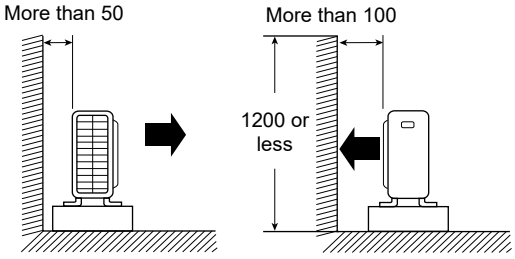
**⚠ Caution**

**If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such as substances may lead to failure of the unit.**

- Where a wall or order obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.
- For any of the below installation patterns, the wall height on the exhaust side should be 1200mm or less.

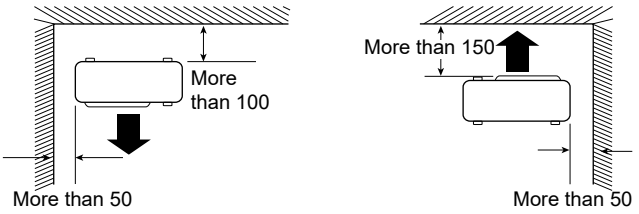
**Model: RK25/35FXV19, RXN25/35FXV1**

Wall facing one side



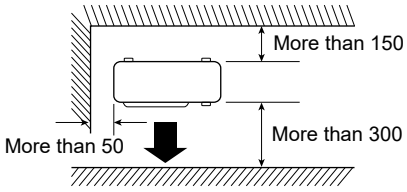

Side View

Wall facing two side




Top View

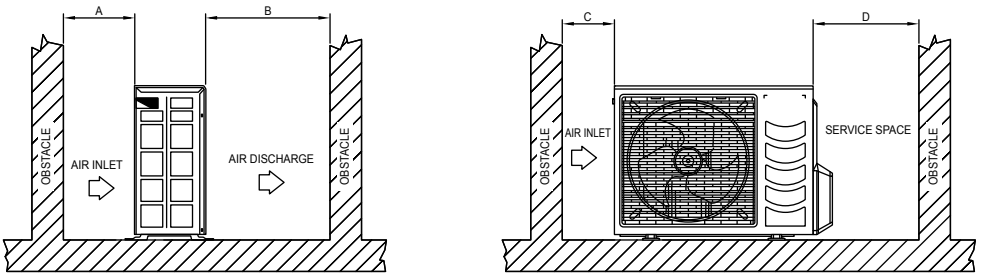
Wall facing three side




Top View

Unit : mm

**Model: RK50/60CXV19, RXN50/60CXV1**




| ALL MODELS | A | B | C | D |
|---|---|---|---|---|
| Minimum Distance | 300 mm | 1000 mm | 300 mm | 500 mm |

## Cable Size

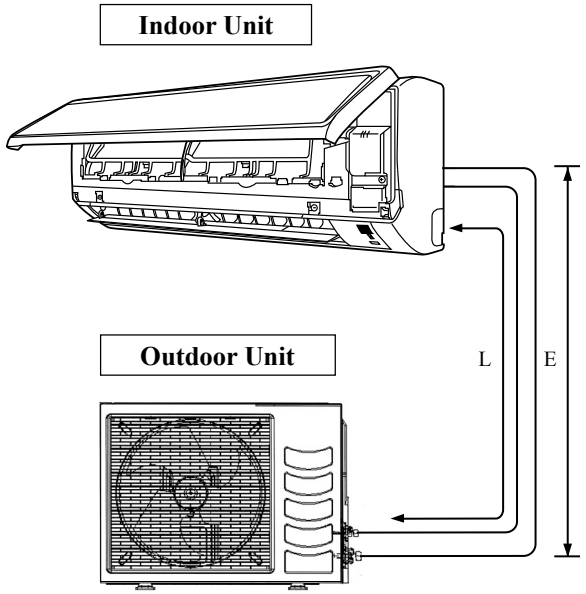
| Model | Unit | FTK25JXV19 | FTK35JXV19 | FTK50JXV19 | FTK60JXV19 |
|---|---|---|---|---|---|
| | | RK25FXV19 | RK35FXV19 | RK50CXV19 | RK60CXV19 |
| Power supply cable size<br>Number of wire | $mm^2$ | 1.5<br>3 | | 2.5<br>3 | |
| Interconnection cable size<br>Number of wire | $mm^2$ | 1.5<br>4 | | 2.5<br>4 | |
| Recommended fuse | A | 16 | | 20 | |

| Model | Unit | FTXN25JXV1 | FTXN35JXV1 | FTXN50JXV1 | FTXN60JXV1 |
|---|---|---|---|---|---|
| | | RXN25CXV19 | RXN35CXV19 | RXN50CXV19 | RXN60CXV19 |
| Power supply cable size<br>Number of wire | $mm^2$ | 1.5<br>3 | | 2.5<br>3 | |
| Interconnection cable size<br>Number of wire | $mm^2$ | 1.5<br>4 | | 2.5<br>4 | |
| Recommended fuse | A | 16 | | 20 | |

## Refrigerant Piping

### Piping Length and Elevation

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:




| Model | Indoor (FTXN/FTK) | 25 | 35 | 50 | 60 |
|---|---|---|---|---|---|
| | Outdoor (RXN/RK) | 25 | 35 | 50 | 60 |
| Min. Allowable Length (L), m | | 3 | | 3 | |
| Max. Allowable Length (L), m | | 20 | | 30 | |
| Max. Allowable Elevation (E), m | | 10 | | 10 | |
| Gas Pipe Size, mm/(in) | | 9.52 (3/8") | | 12.70 (1/2") | 15.88 (5/8") |
| Liquid Pipe Size, mm/(in) | | 6.35 (1/4") | | 6.35 (1/4") | |

## Additional Charge

- The refrigerant gas is charged in the outdoor unit and, if the piping length is 7.5m, additional charge of the refrigerant after vacuuming is not necessary.
- When the piping length is more than 7.5m, additional refrigerant charge (g) per additional 1m length as tabulated:

| Model | Indoor (FTXN/FTK) | 25 | 35 | 50 | 60 |
|---|---|---|---|---|---|
| | Outdoor (RXN/RK) | 25 | 35 | 50 | 60 |
| Additional charge [g/m] | | 20 | 20 | 20 | 20 |

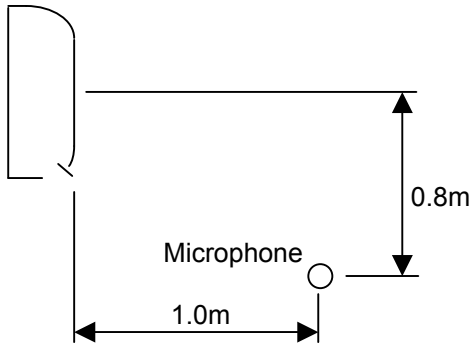
## Example:

FTXN25 & RXN25 with 12m piping length, additional piping length is 4.5m.
Thus, Additional charge = 4.5[m] x 20[g/m]
= 90.0[g]

# Sound Data

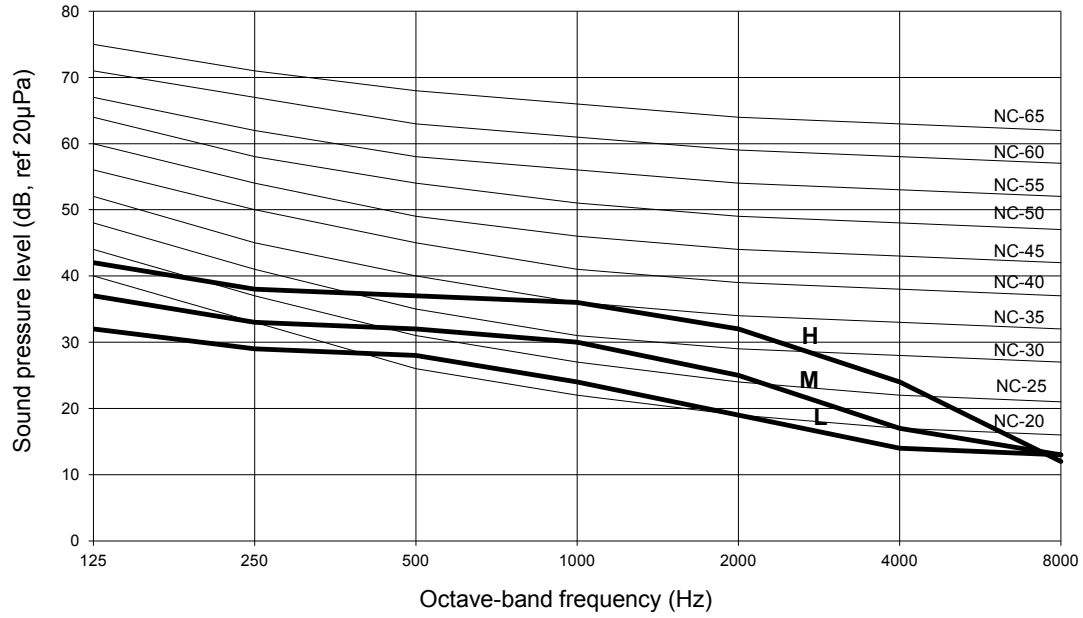
## Sound Pressure Level

| Model | Speed | 1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa) | | | | | | | Overall (dBA) | Noise Criteria |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | | |
| FTK25JXV19 FTXN25JXV1 | Turbo | 43 | 39 | 37 | 37 | 33 | 26 | 13 | 41 | 36 |
| | Hi | 42 | 38 | 37 | 36 | 32 | 24 | 12 | 40 | 35 |
| | Me | 37 | 33 | 32 | 30 | 25 | 17 | 13 | 34 | 29 |
| | Lo | 32 | 29 | 28 | 24 | 19 | 14 | 13 | 29 | 22 |
| | Quiet | 21 | 22 | 20 | 15 | 10 | 7 | 8 | 21 | - |
| FTK35JXV19 FTXN35JXV1 | Turbo | 41 | 39 | 38 | 38 | 36 | 29 | 15 | 42 | 37 |
| | Hi | 40 | 38 | 38 | 37 | 34 | 27 | 14 | 41 | 36 |
| | Me | 36 | 32 | 32 | 30 | 26 | 18 | 11 | 34 | 29 |
| | Lo | 33 | 29 | 29 | 25 | 21 | 15 | 11 | 30 | 23 |
| | Quiet | 24 | 22 | 21 | 17 | 11 | 7 | 7 | 22 | - |
| FTK50JXV19 FTXN50JXV1 | Turbo | 39 | 41 | 40 | 40 | 37 | 29 | 16 | 44 | 39 |
| | Hi | 35 | 37 | 37 | 36 | 32 | 25 | 12 | 40 | 35 |
| | Me | 34 | 36 | 36 | 34 | 29 | 22 | 11 | 38 | 33 |
| | Lo | 30 | 34 | 33 | 31 | 26 | 18 | 10 | 35 | 30 |
| | Quiet | 28 | 32 | 30 | 28 | 22 | 14 | 10 | 32 | 26 |
| FTK60JXV19 FTXN60JXV1 | Turbo | 42 | 44 | 43 | 42 | 40 | 35 | 20 | 46 | 41 |
| | Hi | 39 | 41 | 40 | 38 | 36 | 31 | 16 | 43 | 37 |
| | Me | 37 | 39 | 38 | 37 | 33 | 28 | 13 | 41 | 36 |
| | Lo | 33 | 36 | 35 | 33 | 28 | 22 | 11 | 37 | 32 |
| | Quiet | 28 | 33 | 32 | 28 | 23 | 17 | 9 | 33 | 26 |

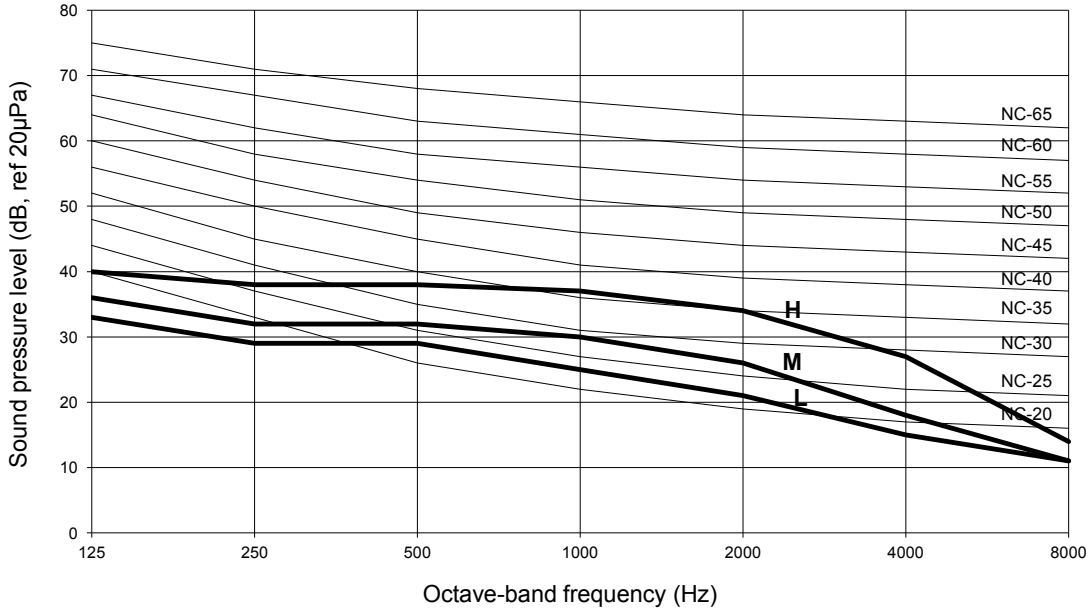
| Model | Measuring Location |
|---|---|
| **FTK25JXV19**<br>**FTK35JXV19**<br>**FTK50JXV19**<br>**FTK60JXV19**<br><br>**FTXN25JXV1**<br>**FTXN35JXV1**<br>**FTXN50JXV1**<br>**FTXN60JXV1** |  <br>Standard : JIS C 9612 |

## NC Curve

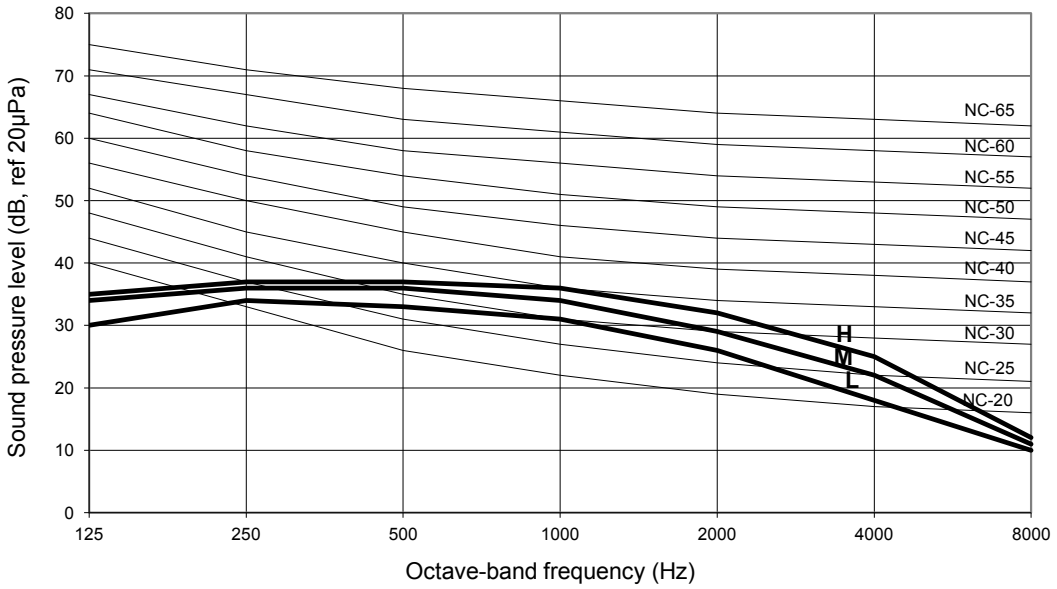
**FTK25JXV19 / FTXN25JXV1**



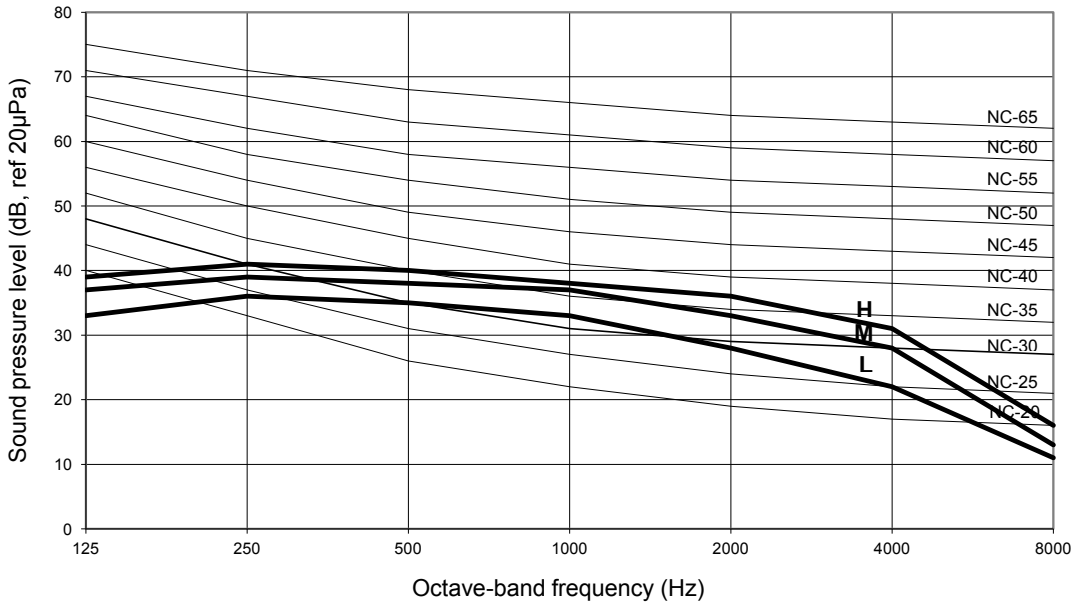

**FTK35JXV19 / FTXN35JXV1**



**FTK50JXV19 / FTXN50JXV1**




**FTK60JXV19 / FTXN60JXV1**



# Engineering & Physical Data

## Engineering Data - R410A MODEL (Cooling Only)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **MODEL** | | **INDOOR UNIT** | | | **FTK25JXV19** | **FTK35JXV19** | **FTK50JXV19** | **FTK60JXV19** |
| | | **OUTDOOR UNIT** | | | **RK25FXV19** | **RK35FXV19** | **RK50CXV19** | **RK60CXV19** |
| **NOMINAL COOLING CAPACITY (Max - Min)** | | | | **Btu/h** | 8700 (4400 - 10200) | 11600 (4400 - 13000) | 19100 (5560 - 21150) | 21500 (5970 - 22180) |
| | | | | **W** | 2560 (1300 - 3000) | 3410 (1300 - 3800) | 5600 (1630 - 6200) | 6300 (1750 - 6500) |
| **NOMINAL TOTAL INPUT POWER (COOLING)** | | | | **W** | 693 | 1060 | 1650 | 1880 |
| **NOMINAL RUNNING CURRENT (COOLING)** | | | | **A** | 3.82 | 5.73 | 7.28 | 8.29 |
| **EER** | | | | **W/W** | 3.69 | 3.22 | 3.39 | 3.35 |
| **REFRIGERANT CHARGE** | | | | **kg** | 0.74 | 1.00 | 1.25 | 1.45 |
| **POWER SOURCE** | | | | **V/Ph/Hz** | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| **REFRIGERANT TYPE** | | | | | R410A | R410A | R410A | R410A |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) |
| | | **OPERATION** | | | WIRELESS REMOTE CONTROL | WIRELESS REMOTE CONTROL | WIRELESS REMOTE CONTROL | WIRELESS REMOTE CONTROL |
| | **AIR FLOW** | | **TURBO** | **l/s / CFM** | 178 / 378 | 185 / 392 | 273 / 578 | 332 / 703 |
| | | | **HIGH** | **l/s / CFM** | 163 / 345 | 169 / 358 | 250 / 529 | 309 / 654 |
| | | | **MEDIUM** | **l/s / CFM** | 128 / 272 | 133 / 282 | 222 / 471 | 276 / 585 |
| | | | **LOW** | **l/s / CFM** | 101 / 215 | 109 / 232 | 197 / 418 | 239 / 507 |
| | | | **QUIET** | **l/s / CFM** | 78 / 165 | 78 / 165 | 177 / 374 | 206 / 437 |
| | **SOUND PRESSURE LEVEL (T/H/M/L/Q)** | | | **dBA** | 41/40/34/29/21 | 42/41/34/30/22 | 44/40/38/35/32 | 46/43/41/37/33 |
| | **UNIT DIMENSION** | **HEIGHT X WIDTH X DEPTH** | | **mm** | 288 X800 X 212 | 288 X800 X 212 | 310 X 1065 X 228 | 310 X 1065 X 228 |
| | **PACKING DIMENSION** | **HEIGHT X WIDTH X DEPTH** | | **mm** | 344 X 874 X 274 | 344 X 874 X 274 | 386 X 1136 X 314 | 386 X 1136 X 314 |
| | **UNIT WEIGHT** | | | **kg** | 9 | 9 | 14 | 14 |
| | **CONDENSATE DRAIN SIZE** | | | **mm** | 19.05 | 19.05 | 19.05 | 19.05 |
| | **FAN** | **TYPE** | | | CROSS FLOW | CROSS FLOW | CROSS FLOW | CROSS FLOW |
| | | **DRIVE** | | | DIRECT | DIRECT | DIRECT | DIRECT |
| | **FAN MOTOR** | **TYPE** | | | PERMANENT SPLIT CAPACITOR MOTOR | | DIRECT CURRENT MOTOR | |
| | | **INDEX OF PROTECTION (IP)** | | | IP44 | IP44 | IP20 | IP20 |
| | | **INSULATION GRADE** | | | CLASS E | CLASS E | CLASS E | CLASS E |
| | | **RATED INPUT POWER** | | **W** | 37 | 42 | 37 | 63 |
| | | **RATED RUNNING CURRENT** | | **A** | 0.19 | 0.21 | 0.32 | 0.56 |
| | | **MOTOR OUTPUT** | | **W** | 18 | 18 | 40 | 40 |
| | | **POLES** | | | 4 | 4 | 8 | 8 |
| | **COIL** | **TUBE** | **MATERIAL** | | COPPER | COPPER | COPPER | COPPER |
| | | | **DIAMETER** | **mm** | 7 | 7 | 7 | 7 |
| | | **FIN** | **MATERIAL** | | ALUMINIUM | ALUMINIUM | ALUMINIUM | ALUMINIUM |
| | | | **FACE AREA** | **$m^2$** | 0.18 | 0.18 | 0.29 | 0.29 |
| | | | **ROW** | | 2 | 2 | 2 | 2 |
| | **AIR QUALITY** | **FILTER** | **TYPE** | | TITANIUM APATITE | TITANIUM APATITE | TITANIUM APATITE | TITANIUM APATITE |
| | | | **QUANTITY** | **pc** | 2 | 2 | 2 | 2 |
| | **CASING** | | | **COLOUR** | WHITE | WHITE | WHITE | WHITE |
| **OUTDOOR UNIT** | **AIR FLOW** | | | **l/s / CFM** | 401 / 850 | 345 / 730 | 798 / 1796 | 848 / 1796 |
| | **SOUND PRESSURE LEVEL** | | | **dBA** | 45 | 46 | 51 | 51 |
| | **UNIT DIMENSION** | **HEIGHT X WIDTH X DEPTH** | | **mm** | 550 X 658 X 289 | 550 X 658 X 289 | 753 x 855 x 328 | 753 x 855 x 328 |
| | **PACKING DIMENSION** | **HEIGHT X WIDTH X DEPTH** | | **mm** | 580 X 775 X 355 | 580 X 775 X 355 | 793 x 990 x 415 | 793 x 990 x 415 |
| | **UNIT WEIGHT** | | | **kg** | 24 | 26 | 37 | 44 |
| | **PIPE CONNECTION** | **TYPE** | | | FLARE VALVE | FLARE VALVE | FLARE VALVE | FLARE VALVE |
| | | **SIZE** | **LIQUID** | **mm** | 6.35 | 6.35 | 6.35 | 6.35 |
| | | | **GAS** | **mm** | 9.52 | 9.52 | 12.70 | 15.90 |
| | **PIPE LENGTH** | **PRE-CHARGED** | | **m** | 7.5 | 7.5 | 7.5 | 7.5 |
| | | **MAXIMUM** | | **m** | 20 | 20 | 30 | 30 |
| | **FAN** | **TYPE** | | | PROPELLER | PROPELLER | PROPELLER | PROPELLER |
| | | **DRIVE** | | | DIRECT | DIRECT | DIRECT | DIRECT |
| | **FAN MOTOR** | **TYPE** | | | DIRECT CURRENT MOTOR | DIRECT CURRENT MOTOR | DIRECT CURRENT MOTOR | DIRECT CURRENT MOTOR |
| | | **INDEX OF PROTECTION (IP)** | | | IP24 | IP24 | IP23 | IP23 |
| | | **INSULATION GRADE** | | | CLASS E | CLASS E | CLASS E | CLASS E |
| | | **RATED INPUT POWER** | | **W** | 22 | 24 | 86 | 80 |
| | | **RATED RUNNING CURRENT** | | **A** | 0.31 | 0.34 | 0.90 | 0.77 |
| | | **MOTOR OUTPUT** | | **W** | 41 | 41 | 61 | 61 |
| | | **POLES** | | | 8 | 8 | 8 | 8 |
| | **COMPRESSOR** | **TYPE** | | | HERMETIC SWING | HERMETIC SWING | HERMETIC SWING | HERMETIC SWING |
| | | **OIL TYPE** | | | DAPHNE FVC50K (Ether Oil) | DAPHNE FVC50K (Ether Oil) | DAPHNE FVC50K (Ether Oil) | DAPHNE FVC50K (Ether Oil) |
| | **COIL** | **TUBE** | **MATERIAL** | | COPPER | COPPER | COPPER | COPPER |
| | | | **DIAMETER** | **mm** | 7 | 7 | 7 | 7 |
| | | **FIN** | **MATERIAL** | | ALUMINIUM | ALUMINIUM | ALUMINIUM | ALUMINIUM |
| | | | **FACE AREA** | **$m^2$** | 0.33 | 0.32 | 0.62 | 0.62 |
| | | | **ROW** | | 1 | 2 | 2 | 2 |
| | **CASING** | | | **COLOUR** | IVORY WHITE | IVORY WHITE | IVORY WHITE | IVORY WHITE |
| **OPERATING RANGE** | **COOLING** | | | **°C DB** | 10 ~ 46 | 10 ~ 46 | -10 ~ 46 | -10 ~ 46 |

1) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).
2) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

| COOLING |
|---|
| INDOOR: 27°C DB / 19°C WB |
| OUTDOOR: 35°C DB / 24°C WB |

# Engineering Data - R410A MODEL (Heatpump)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **MODEL** | **INDOOR UNIT** | | | **FTXN25JXV1** | **FTXN35JXV1** | **FTXN50JXV1** | **FTXN60JXV1** |
| | **OUTDOOR UNIT** | | | **RXN25FXV1** | **RXN35FXV1** | **RXN50CXV1** | **RXN60CXV1** |
| **NOMINAL COOLING CAPACITY (Max - Min)** | | | **Btu/h** | 8700 (4400 - 10200) | 11600 (4400 - 13000) | 19100 (5560 - 21150) | 21500 (5970 - 22180) |
| | | | **W** | 2560 (1300 - 3000) | 3410 (1300 - 3800) | 5600 (1630 - 6200) | 6300 (1750 - 6500) |
| **NOMINAL HEATING CAPACITY (Max - Min)** | | | **Btu/h** | 9700 (4400 - 13600) | 12200 (4400 - 16200) | 19200 (3990 - 22520) | 21800 (4100 - 27300) |
| | | | **W** | 2840 (1300 - 4000) | 3580 (1300 - 4750) | 5620 (1170 - 6600) | 6400 (1200 - 8000) |
| **NOMINAL TOTAL INPUT POWER (COOLING) (Max - Min)** | | | **W** | 693 | 1060 | 1650 | 1880 |
| **NOMINAL TOTAL INPUT POWER (HEATING) (Max - Min)** | | | **W** | 700 | 950 | 1550 | 1680 |
| **NOMINAL RUNNING CURRENT (COOLING) (Max - Min)** | | | **A** | 3.82 | 5.73 | 7.28 | 8.29 |
| **NOMINAL RUNNING CURRENT (HEATING) (Max - Min)** | | | **A** | 3.83 | 5.19 | 6.86 | 7.46 |
| **EER** | | | **W/W** | 3.69 | 3.22 | 3.39 | 3.35 |
| **COP** | | | **W/W** | 4.06 | 3.77 | 3.63 | 3.81 |
| **REFRIGERANT CHARGE** | | | **kg** | 0.74 | 1.00 | 1.25 | 1.45 |
| **POWER SOURCE** | | | **V/Ph/Hz** | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| **REFRIGERANT TYPE** | | | | R410A | R410A | R410A | R410A |
| **INDOOR UNIT** | **CONTROL** | **AIR DISCHARGE** | | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) | AUTO LOUVER (UP & DOWN) & MANUAL GRILLE (LEFT & RIGHT) |
| | | **OPERATION** | | WIRELESS REMOTE CONTROL | | | |
| | **AIR FLOW** | **TURBO** | **l/s / CFM** | 178 / 378 | 185 / 392 | 273 / 578 | 332 / 703 |
| | | **HIGH** | **l/s / CFM** | 163 / 345 | 169 / 358 | 250 / 529 | 309 / 654 |
| | | **MEDIUM** | **l/s / CFM** | 128 / 272 | 133 / 282 | 222 / 471 | 276 / 585 |
| | | **LOW** | **l/s / CFM** | 101 / 215 | 109 / 232 | 197 / 418 | 239 / 507 |
| | | **QUIET** | **l/s / CFM** | 78 / 165 | 78 / 165 | 177 / 374 | 206 / 437 |
| | **SOUND PRESSURE LEVEL (T/H/M/L/Q)** | | **dBA** | 41/40/34/29/21 | 42/41/34/30/22 | 44/40/38/35/32 | 46/43/41/37/33 |
| | **UNIT DIMENSION** | **HEIGHT X WIDTH X DEPTH** | **mm** | 288 X800 X 212 | 288 X800 X 212 | 310 X 1065 X 228 | 310 X 1065 X 228 |
| | **PACKING DIMENSION** | **HEIGHT X WIDTH X DEPTH** | **mm** | 344 X 874 X 274 | 344 X 874 X 274 | 386 X 1136 X 314 | 386 X 1136 X 314 |
| | **UNIT WEIGHT** | | **kg** | 9 | 9 | 14 | 14 |
| | **CONDENSATE DRAIN SIZE** | | **mm** | 19.05 | 19.05 | 19.05 | 19.05 |
| | **FAN** | **TYPE** | | CROSS FLOW | CROSS FLOW | CROSS FLOW | CROSS FLOW |
| | | **DRIVE** | | DIRECT | DIRECT | DIRECT | DIRECT |
| | **FAN MOTOR** | **TYPE** | | PERMANENT SPLIT CAPACITOR MOTOR | | DIRECT CURRENT MOTOR | |
| | | **INDEX OF PROTECTION (IP)** | | IP44 | IP44 | IP20 | IP20 |
| | | **INSULATION GRADE** | | CLASS E | CLASS E | CLASS E | CLASS E |
| | | **RATED INPUT POWER** | **W** | 37 | 42 | 37 | 63 |
| | | **RATED RUNNING CURRENT** | **A** | 0.19 | 0.21 | 0.32 | 0.56 |
| | | **MOTOR OUTPUT** | **W** | 18 | 18 | 40 | 40 |
| | | **POLES** | | 4 | 4 | 8 | 8 |
| | **COIL** | **TUBE** | **MATERIAL** | COPPER | COPPER | COPPER | COPPER |
| | | | **DIAMETER** | 7 | 7 | 7 | 7 |
| | | **FIN** | **MATERIAL** | ALUMINIUM | ALUMINIUM | ALUMINIUM | ALUMINIUM |
| | | | **FACE AREA** | 0.18 | 0.18 | 0.29 | 0.29 |
| | | | **ROW** | 2 | 2 | 2 | 2 |
| | **AIR QUALITY** | **FILTER** | **TYPE** | TITANIUM APATITE | TITANIUM APATITE | TITANIUM APATITE | TITANIUM APATITE |
| | | | **QUANTITY** | 2 | 2 | 2 | 2 |
| | **CASING** | | **COLOUR** | WHITE | WHITE | WHITE | WHITE |
| **OUTDOOR UNIT** | **AIR FLOW** | | **l/s / CFM** | 401 / 850 | 345 / 730 | 798 / 1796 | 848 / 1796 |
| | **SOUND PRESSURE LEVEL** | | **dBA** | 45 | 46 | 51 | 51 |
| | **UNIT DIMENSION** | **HEIGHT X WIDTH X DEPTH** | **mm** | 550 X 658 X 289 | 550 X 658 X 289 | 753 x 855 x 328 | 753 x 855 x 328 |
| | **PACKING DIMENSION** | **HEIGHT X WIDTH X DEPTH** | **mm** | 580 X 775 X 355 | 580 X 775 X 355 | 793 x 990 x 415 | 793 x 990 x 415 |
| | **UNIT WEIGHT** | | **kg** | 24 | 26 | 37 | 44 |
| | **PIPE CONNECTION** | **TYPE** | | FLARE VALVE | FLARE VALVE | FLARE VALVE | FLARE VALVE |
| | | **SIZE** | **LIQUID** | 6.35 | 6.35 | 6.35 | 6.35 |
| | | | **GAS** | 9.52 | 9.52 | 12.70 | 15.90 |
| | **PIPE LENGTH** | **PRE-CHARGED** | **m** | 7.5 | 7.5 | 7.5 | 7.5 |
| | | **MAXIMUM** | **m** | 20 | 20 | 30 | 30 |
| | **FAN** | **TYPE** | | PROPELLER | PROPELLER | PROPELLER | PROPELLER |
| | | **DRIVE** | | DIRECT | DIRECT | DIRECT | DIRECT |
| | **FAN MOTOR** | **TYPE** | | DIRECT CURRENT MOTOR | DIRECT CURRENT MOTOR | DIRECT CURRENT MOTOR | DIRECT CURRENT MOTOR |
| | | **INDEX OF PROTECTION (IP)** | | IP24 | IP24 | IP23 | IP23 |
| | | **INSULATION GRADE** | | CLASS E | CLASS E | CLASS E | CLASS E |
| | | **RATED INPUT POWER** | **W** | 22 | 24 | 86 | 80 |
| | | **RATED RUNNING CURRENT** | **A** | 0.31 | 0.34 | 0.90 | 0.77 |
| | | **MOTOR OUTPUT** | **W** | 41 | 41 | 61 | 61 |
| | | **POLES** | | 8 | 8 | 8 | 8 |
| | **COMPRESSOR** | **TYPE** | | HERMETIC SWING | HERMETIC SWING | HERMETIC SWING | HERMETIC SWING |
| | | **OIL TYPE** | | DAPHNE FVC50K (Ether Oil) | DAPHNE FVC50K (Ether Oil) | DAPHNE FVC50K (Ether Oil) | DAPHNE FVC50K (Ether Oil) |
| | | **OIL AMOUNT** | **cm³** | 375 | 375 | 650 | 650 |
| | **COIL** | **TUBE** | **MATERIAL** | COPPER | COPPER | COPPER | COPPER |
| | | | **DIAMETER** | 7 | 7 | 7 | 7 |
| | | **FIN** | **MATERIAL** | ALUMINIUM | ALUMINIUM | ALUMINIUM | ALUMINIUM |
| | | | **FACE AREA** | 0.33 | 0.32 | 0.62 | 0.62 |
| | | | **ROW** | 1 | 2 | 2 | 2 |
| | **CASING** | | **COLOUR** | IVORY WHITE | IVORY WHITE | IVORY WHITE | IVORY WHITE |
| **OPERATING RANGE** | **COOLING** | | **°C DB** | 10 ~ 46 | 10 ~ 46 | -10 ~ 46 | -10 ~ 46 |
| | **HEATING** | | **°C WB** | -15 ~ 18 | -15 ~ 18 | -15 ~ 18 | -15 ~ 18 |

1) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).
2) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

| COOLING | HEATING |
|---|---|
| INDOOR: 27°C DB / 19°C WB | INDOOR: 20°C DB |
| OUTDOOR: 35°C DB / 24°C WB | OUTDOOR: 8°C DB / 6°C WB |

# Performance Data

## Calculation Steps

*Interpolation* method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

**Example:**

**Model:** FTK25JXV19 - RK25FXV19
**Indoor Condition:** 25°C DB, 17°C WB
**Outdoor Condition:** 37°C DB
**Fan Speed:** High

**Solution:**
Based on the Performance Table,

1. Refer to the Indoor DB column,
   - **25°C** is located between 24°C & 27°C for 16°C WB.
   - **25°C** is located between 24°C & 27°C for 19°C WB.
   - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
   - **17°C** is located between 16°C & 19°C for 25°C DB.
   - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C & 40°C.
   - Thus, Interpolation needs to be applied.

**1st Step**
**Interpolation of Indoor WB**
Find TC, SC & PI
(a) Indoor: **25°C DB**, 16°C WB
Outdoor: 35°C DB
(b) Indoor: **25°C DB**, 19°C WB
Outdoor: 35°C DB
(c) Indoor: **25°C DB**, 16°C WB
Outdoor: 40°C DB
(d) Indoor: **25°C DB**, 19°C WB
Outdoor: 40°C DB

⇨

**2nd Step**
**Interpolation of Indoor DB**
Find TC, SC & PI
(a) Indoor: 25°C DB, **17°C WB**
Outdoor: 35°C DB
(b) Indoor: 25°C DB, **17°C WB**
Outdoor: 40°C DB

⇨

**3rd Step**
**Interpolation of Outdoor DB**
Find TC, SC & PI
(a) Indoor: 25°C DB, 17°C WB
Outdoor: **37°C DB**

## Details of Calculation:

**1st Step:**

To obtain the TC, SC & PI for

**(a) Indoor Condition:** 25°C DB, 16°C WB
**Outdoor Condition:** 35°C DB

| EWB | EDB | Outdoor temperature | | | | |
|---|---|---|---|---|---|---|
| | | | 35°C | | | |
| | | | TC | SC | PI | |
| | | | ⋮ | ⋮ | ⋮ | |
| 16 | 24 | | 2.33 | 2.32 | 0.68 | |
| | 25 | - - - - - - | $x_1$ | $y_1$ | $z_1$ | |
| | 27 | | 2.40 | 2.40 | 0.68 | |

**By Interpolation Method**

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_1 - 2.33\ kW}{2.40\ kW - 2.33\ kW}$$

$\Rightarrow x_1 = 2.35$ kW

**Similarly**,

$y_1 = 2.35$ kW

$z_1 = 0.68$ kW

**(b) Indoor Condition:** 25°C DB, 19°C WB
**Outdoor Condition:** 35°C DB

| EWB | EDB | Outdoor temperature | | | | |
|---|---|---|---|---|---|---|
| | | | 35°C | | | |
| | | | TC | SC | PI | |
| | | | ⋮ | ⋮ | ⋮ | |
| 19 | 24 | | 2.55 | 1.82 | 0.69 | |
| | 25 | ------ | $x_2$ | $y_2$ | $z_2$ | |
| | 27 | | 2.56 | 2.12 | 0.69 | |

**By Interpolation Method**

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{y_2 - 1.82\ kW}{2.12\ kW - 1.82\ kW}$$

$\Rightarrow y_2 = 1.92$ kW

**Similarly**,

$x_2 = 2.55$ kW

$z_2 = 0.69$ kW

**Repeat the same process for (c) & (d) in 1st Step**

(c) $x_3 = 2.17$ kW; $y_3 = 2.17$ kW; $z_3 = 0.69$ kW

(d) $x_4 = 2.34$ W; $y_4 = 1.80$ kW; $z_4 = 0.75$ kW

---

**2nd Step:**

To obtain the TC, SC & PI for

**(a) Indoor Condition:** 25°C DB, 17°C WB
**Outdoor Condition:** 35°C DB

| EWB | EDB | Outdoor temperature | | | | |
|---|---|---|---|---|---|---|
| | | | 35°C | | | |
| | | | TC | SC | PI | |
| | | | ⋮ | ⋮ | ⋮ | |
| 16 | 25 | | 2.35 | 2.35 | 0.68 | |
| 17 | | ------ | $x_5$ | $y_5$ | $z_5$ | |
| 19 | | | 2.55 | 1.92 | 0.69 | |

**By Interpolation Method**

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_5 - 2.35\ kW}{2.55\ kW - 2.35\ kW}$$

$\Rightarrow x_5 = 2.42$ kW

**Similarly**,

$y_5 = 2.21$ kW

$z_5 = 0.68$ kW

**Repeat the same process for (b) in 2nd Step**

(c) $x_6 = 2.22$ kW; $y_6 = 2.05$ kW; $z_6 = 0.71$ kW

---

**3rd Step:**

To obtain the TC, SC & PI for

**(a) Indoor Condition:** 25°C DB, 17°C WB
**Outdoor Condition:** 37°C DB

| EWB | EDB | Outdoor temperature | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 35°C | | | 37°C | | | 40°C | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| | | | | | | ⋮ | ⋮ | ⋮ | | | |
| 25 | 17 | ------ | 2.42 | 2.21 | 0.68 | x | y | z | 2.22 | 2.05 | 0.71 |

**By Interpolation Method**

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{x - 2.42\ kW}{2.22\ kW - 2.42\ kW}$$

$\Rightarrow x = 2.34$ kW

**Similarly**,

$y = 2.15$ kW

$z = 0.69$ kW

# Performance Tables

## R410A Cooling Only

### Model: FTK25JXV19 - RK25FXV19
### Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 215 | 16°C | 21°C | 2.41 | 1.89 | 0.53 | 2.33 | 1.84 | 0.57 | 2.24 | 1.79 | 0.62 | 2.15 | 1.74 | 0.67 | 1.98 | 1.62 | 0.73 | 1.82 | 1.52 | 0.80 |
| | | 24°C | 2.42 | 2.26 | 0.53 | 2.33 | 2.21 | 0.57 | 2.24 | 2.16 | 0.62 | 2.15 | 2.10 | 0.67 | 1.98 | 1.97 | 0.73 | 1.83 | 1.83 | 0.80 |
| | | 27°C | 2.44 | 2.44 | 0.53 | 2.35 | 2.35 | 0.57 | 2.27 | 2.27 | 0.62 | 2.19 | 2.19 | 0.67 | 2.02 | 2.02 | 0.73 | 1.88 | 1.88 | 0.80 |
| | | 30°C | 2.51 | 2.51 | 0.53 | 2.44 | 2.44 | 0.57 | 2.36 | 2.36 | 0.62 | 2.29 | 2.29 | 0.68 | 2.12 | 2.12 | 0.73 | 1.98 | 1.98 | 0.81 |
| | 19°C | 24°C | 2.66 | 1.76 | 0.53 | 2.57 | 1.72 | 0.58 | 2.47 | 1.67 | 0.63 | 2.38 | 1.63 | 0.68 | 2.18 | 1.51 | 0.74 | 2.02 | 1.43 | 0.81 |
| | | 27°C | 2.66 | 2.02 | 0.53 | 2.57 | 1.97 | 0.58 | 2.48 | 1.93 | 0.63 | 2.38 | 1.88 | 0.68 | 2.19 | 1.76 | 0.74 | 2.02 | 1.67 | 0.81 |
| | | 30°C | 2.67 | 2.49 | 0.54 | 2.58 | 2.44 | 0.58 | 2.48 | 2.38 | 0.63 | 2.39 | 2.32 | 0.68 | 2.20 | 2.17 | 0.74 | 2.04 | 2.04 | 0.81 |
| | | 33°C | 2.70 | 2.70 | 0.54 | 2.61 | 2.61 | 0.58 | 2.53 | 2.53 | 0.63 | 2.44 | 2.44 | 0.68 | 2.26 | 2.26 | 0.74 | 2.11 | 2.11 | 0.82 |
| | 22°C | 27°C | 2.93 | 1.73 | 0.54 | 2.83 | 1.68 | 0.59 | 2.72 | 1.64 | 0.64 | 2.62 | 1.60 | 0.69 | 2.41 | 1.49 | 0.75 | 2.23 | 1.40 | 0.83 |
| | | 30°C | 2.93 | 2.10 | 0.54 | 2.83 | 2.06 | 0.59 | 2.72 | 2.01 | 0.64 | 2.62 | 1.96 | 0.69 | 2.41 | 1.84 | 0.75 | 2.23 | 1.74 | 0.83 |
| | | 33°C | 2.93 | 2.46 | 0.54 | 2.83 | 2.41 | 0.59 | 2.73 | 2.36 | 0.64 | 2.62 | 2.31 | 0.69 | 2.41 | 2.17 | 0.75 | 2.23 | 2.06 | 0.83 |
| | | 36°C | 2.94 | 2.79 | 0.55 | 2.84 | 2.73 | 0.59 | 2.74 | 2.67 | 0.64 | 2.64 | 2.61 | 0.70 | 2.44 | 2.44 | 0.75 | 2.27 | 2.27 | 0.83 |
| 272 | 16°C | 21°C | 2.51 | 1.97 | 0.53 | 2.42 | 1.92 | 0.57 | 2.33 | 1.87 | 0.62 | 2.23 | 1.82 | 0.67 | 2.05 | 1.69 | 0.73 | 1.89 | 1.59 | 0.81 |
| | | 24°C | 2.52 | 2.39 | 0.53 | 2.43 | 2.34 | 0.57 | 2.34 | 2.28 | 0.62 | 2.24 | 2.22 | 0.68 | 2.06 | 2.06 | 0.73 | 1.90 | 1.90 | 0.81 |
| | | 27°C | 2.55 | 2.55 | 0.53 | 2.46 | 2.46 | 0.58 | 2.38 | 2.38 | 0.62 | 2.29 | 2.29 | 0.68 | 2.12 | 2.12 | 0.74 | 1.97 | 1.97 | 0.81 |
| | | 30°C | 2.66 | 2.66 | 0.54 | 2.58 | 2.58 | 0.58 | 2.50 | 2.50 | 0.63 | 2.42 | 2.42 | 0.68 | 2.24 | 2.24 | 0.74 | 2.09 | 2.09 | 0.82 |
| | 19°C | 24°C | 2.77 | 1.86 | 0.54 | 2.67 | 1.82 | 0.58 | 2.57 | 1.77 | 0.63 | 2.46 | 1.72 | 0.69 | 2.26 | 1.60 | 0.74 | 2.09 | 1.51 | 0.82 |
| | | 27°C | 2.77 | 2.15 | 0.54 | 2.67 | 2.10 | 0.58 | 2.57 | 2.05 | 0.63 | 2.47 | 2.00 | 0.69 | 2.27 | 1.87 | 0.75 | 2.10 | 1.77 | 0.82 |
| | | 30°C | 2.78 | 2.65 | 0.54 | 2.69 | 2.59 | 0.59 | 2.59 | 2.53 | 0.63 | 2.49 | 2.47 | 0.69 | 2.29 | 2.29 | 0.75 | 2.13 | 2.13 | 0.82 |
| | | 33°C | 2.83 | 2.83 | 0.54 | 2.74 | 2.74 | 0.59 | 2.66 | 2.66 | 0.64 | 2.57 | 2.57 | 0.69 | 2.38 | 2.38 | 0.75 | 2.22 | 2.22 | 0.83 |
| | 22°C | 27°C | 3.04 | 1.83 | 0.55 | 2.93 | 1.78 | 0.60 | 2.82 | 1.74 | 0.65 | 2.71 | 1.69 | 0.70 | 2.49 | 1.58 | 0.76 | 2.30 | 1.49 | 0.84 |
| | | 30°C | 3.04 | 2.24 | 0.55 | 2.94 | 2.19 | 0.60 | 2.83 | 2.14 | 0.65 | 2.71 | 2.09 | 0.70 | 2.49 | 1.96 | 0.76 | 2.31 | 1.86 | 0.84 |
| | | 33°C | 3.05 | 2.62 | 0.55 | 2.94 | 2.57 | 0.60 | 2.83 | 2.52 | 0.65 | 2.72 | 2.47 | 0.70 | 2.51 | 2.32 | 0.76 | 2.32 | 2.20 | 0.84 |
| | | 36°C | 3.07 | 2.97 | 0.55 | 2.97 | 2.91 | 0.60 | 2.86 | 2.85 | 0.65 | 2.76 | 2.76 | 0.70 | 2.55 | 2.55 | 0.76 | 2.37 | 2.37 | 0.84 |
| 345 | 16°C | 21°C | 2.60 | 2.06 | 0.54 | 2.51 | 2.00 | 0.58 | 2.41 | 1.95 | 0.63 | 2.31 | 1.90 | 0.68 | 2.12 | 1.77 | 0.74 | 1.96 | 1.66 | 0.81 |
| | | 24°C | 2.62 | 2.50 | 0.54 | 2.52 | 2.44 | 0.58 | 2.43 | 2.38 | 0.63 | 2.33 | 2.32 | 0.68 | 2.14 | 2.14 | 0.74 | 1.98 | 1.98 | 0.81 |
| | | 27°C | 2.66 | 2.66 | 0.54 | 2.57 | 2.57 | 0.58 | 2.49 | 2.49 | 0.63 | 2.40 | 2.40 | 0.68 | 2.22 | 2.22 | 0.74 | 2.06 | 2.06 | 0.82 |
| | | 30°C | 2.79 | 2.79 | 0.54 | 2.71 | 2.71 | 0.59 | 2.63 | 2.63 | 0.64 | 2.54 | 2.54 | 0.69 | 2.35 | 2.35 | 0.75 | 2.20 | 2.20 | 0.83 |
| | 19°C | 24°C | 2.87 | 1.97 | 0.54 | 2.76 | 1.92 | 0.59 | 2.66 | 1.87 | 0.64 | 2.55 | 1.82 | 0.69 | 2.34 | 1.70 | 0.75 | 2.16 | 1.60 | 0.83 |
| | | 27°C | 2.88 | 2.28 | 0.54 | 2.77 | 2.23 | 0.59 | 2.67 | 2.18 | 0.64 | 2.56 | 2.12 | 0.69 | 2.35 | 1.99 | 0.75 | 2.17 | 1.88 | 0.83 |
| | | 30°C | 2.90 | 2.81 | 0.55 | 2.80 | 2.75 | 0.59 | 2.70 | 2.68 | 0.64 | 2.59 | 2.59 | 0.69 | 2.39 | 2.39 | 0.75 | 2.22 | 2.22 | 0.83 |
| | | 33°C | 2.96 | 2.96 | 0.55 | 2.87 | 2.87 | 0.59 | 2.79 | 2.79 | 0.65 | 2.69 | 2.69 | 0.70 | 2.50 | 2.50 | 0.76 | 2.33 | 2.33 | 0.84 |
| | 22°C | 27°C | 3.15 | 1.93 | 0.55 | 3.03 | 1.89 | 0.60 | 2.92 | 1.84 | 0.65 | 2.80 | 1.79 | 0.71 | 2.57 | 1.67 | 0.77 | 2.38 | 1.58 | 0.84 |
| | | 30°C | 3.15 | 2.38 | 0.55 | 3.04 | 2.33 | 0.60 | 2.93 | 2.28 | 0.65 | 2.81 | 2.23 | 0.71 | 2.58 | 2.09 | 0.77 | 2.39 | 1.98 | 0.84 |
| | | 33°C | 3.16 | 2.79 | 0.56 | 3.05 | 2.74 | 0.60 | 2.94 | 2.68 | 0.65 | 2.83 | 2.62 | 0.71 | 2.60 | 2.46 | 0.77 | 2.41 | 2.33 | 0.85 |
| | | 36°C | 3.19 | 3.15 | 0.56 | 3.09 | 3.09 | 0.60 | 2.98 | 2.98 | 0.65 | 2.88 | 2.88 | 0.71 | 2.66 | 2.66 | 0.77 | 2.48 | 2.48 | 0.85 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 10°C to 46°C without pressure trip.

## Model: FTK35JXV19 - RK35FXV19
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 232 | 16°C | 21°C | 3.21 | 2.27 | 0.81 | 3.10 | 2.21 | 0.87 | 2.99 | 2.15 | 0.94 | 2.87 | 2.09 | 1.02 | 2.63 | 1.95 | 1.11 | 2.43 | 1.83 | 1.22 |
| | | 24°C | 3.22 | 2.72 | 0.81 | 3.10 | 2.66 | 0.87 | 2.99 | 2.60 | 0.94 | 2.87 | 2.53 | 1.02 | 2.64 | 2.37 | 1.11 | 2.44 | 2.23 | 1.22 |
| | | 27°C | 3.24 | 3.09 | 0.81 | 3.14 | 3.02 | 0.87 | 3.03 | 2.95 | 0.95 | 2.91 | 2.87 | 1.03 | 2.69 | 2.67 | 1.11 | 2.50 | 2.50 | 1.23 |
| | | 30°C | 3.34 | 3.34 | 0.81 | 3.25 | 3.25 | 0.88 | 3.15 | 3.15 | 0.95 | 3.05 | 3.05 | 1.03 | 2.83 | 2.83 | 1.12 | 2.64 | 2.64 | 1.24 |
| | 19°C | 24°C | 3.55 | 2.12 | 0.82 | 3.42 | 2.07 | 0.89 | 3.30 | 2.01 | 0.96 | 3.16 | 1.96 | 1.04 | 2.91 | 1.82 | 1.13 | 2.69 | 1.72 | 1.24 |
| | | 27°C | 3.55 | 2.43 | 0.82 | 3.42 | 2.37 | 0.89 | 3.30 | 2.32 | 0.96 | 3.17 | 2.26 | 1.04 | 2.91 | 2.12 | 1.13 | 2.69 | 2.01 | 1.24 |
| | | 30°C | 3.55 | 3.00 | 0.82 | 3.43 | 2.93 | 0.89 | 3.31 | 2.87 | 0.96 | 3.18 | 2.80 | 1.04 | 2.93 | 2.62 | 1.13 | 2.72 | 2.48 | 1.25 |
| | | 33°C | 3.60 | 3.60 | 0.82 | 3.48 | 3.48 | 0.89 | 3.37 | 3.37 | 0.96 | 3.25 | 3.25 | 1.05 | 3.01 | 3.01 | 1.14 | 2.81 | 2.81 | 1.25 |
| | 22°C | 27°C | 3.90 | 2.08 | 0.83 | 3.77 | 2.03 | 0.90 | 3.63 | 1.98 | 0.98 | 3.49 | 1.92 | 1.06 | 3.21 | 1.79 | 1.15 | 2.97 | 1.69 | 1.27 |
| | | 30°C | 3.90 | 2.53 | 0.83 | 3.77 | 2.48 | 0.90 | 3.63 | 2.42 | 0.98 | 3.49 | 2.36 | 1.06 | 3.21 | 2.21 | 1.15 | 2.97 | 2.10 | 1.27 |
| | | 33°C | 3.90 | 2.96 | 0.83 | 3.77 | 2.90 | 0.90 | 3.63 | 2.84 | 0.98 | 3.49 | 2.78 | 1.06 | 3.21 | 2.61 | 1.15 | 2.98 | 2.48 | 1.27 |
| | | 36°C | 3.92 | 3.35 | 0.83 | 3.79 | 3.29 | 0.90 | 3.66 | 3.22 | 0.98 | 3.52 | 3.15 | 1.06 | 3.25 | 2.95 | 1.15 | 3.02 | 2.80 | 1.27 |
| 282 | 16°C | 21°C | 3.34 | 2.37 | 0.81 | 3.22 | 2.31 | 0.88 | 3.10 | 2.25 | 0.95 | 2.98 | 2.19 | 1.03 | 2.73 | 2.04 | 1.12 | 2.52 | 1.92 | 1.23 |
| | | 24°C | 3.35 | 2.88 | 0.81 | 3.23 | 2.81 | 0.88 | 3.11 | 2.74 | 0.95 | 2.99 | 2.68 | 1.03 | 2.74 | 2.50 | 1.12 | 2.54 | 2.36 | 1.23 |
| | | 27°C | 3.40 | 3.27 | 0.81 | 3.28 | 3.19 | 0.88 | 3.17 | 3.11 | 0.96 | 3.05 | 3.02 | 1.04 | 2.82 | 2.80 | 1.13 | 2.63 | 2.62 | 1.24 |
| | | 30°C | 3.54 | 3.54 | 0.82 | 3.43 | 3.43 | 0.89 | 3.33 | 3.33 | 0.96 | 3.22 | 3.22 | 1.05 | 2.99 | 2.99 | 1.14 | 2.79 | 2.79 | 1.26 |
| | 19°C | 24°C | 3.69 | 2.24 | 0.83 | 3.55 | 2.19 | 0.89 | 3.42 | 2.13 | 0.97 | 3.28 | 2.07 | 1.05 | 3.01 | 1.93 | 1.14 | 2.79 | 1.82 | 1.26 |
| | | 27°C | 3.69 | 2.58 | 0.83 | 3.56 | 2.53 | 0.89 | 3.43 | 2.47 | 0.97 | 3.29 | 2.41 | 1.05 | 3.02 | 2.25 | 1.14 | 2.79 | 2.13 | 1.26 |
| | | 30°C | 3.71 | 3.19 | 0.83 | 3.58 | 3.12 | 0.90 | 3.45 | 3.05 | 0.97 | 3.32 | 2.97 | 1.05 | 3.06 | 2.78 | 1.14 | 2.84 | 2.63 | 1.26 |
| | | 33°C | 3.77 | 3.77 | 0.83 | 3.66 | 3.66 | 0.90 | 3.54 | 3.54 | 0.98 | 3.42 | 3.42 | 1.06 | 3.17 | 3.17 | 1.15 | 2.96 | 2.96 | 1.27 |
| | 22°C | 27°C | 4.05 | 2.20 | 0.84 | 3.91 | 2.15 | 0.91 | 3.76 | 2.09 | 0.99 | 3.61 | 2.03 | 1.07 | 3.32 | 1.90 | 1.16 | 3.07 | 1.79 | 1.28 |
| | | 30°C | 4.05 | 2.70 | 0.84 | 3.91 | 2.64 | 0.91 | 3.77 | 2.58 | 0.99 | 3.62 | 2.52 | 1.07 | 3.32 | 2.36 | 1.16 | 3.07 | 2.24 | 1.28 |
| | | 33°C | 4.06 | 3.16 | 0.84 | 3.92 | 3.10 | 0.91 | 3.78 | 3.04 | 0.99 | 3.63 | 2.97 | 1.07 | 3.34 | 2.79 | 1.16 | 3.09 | 2.65 | 1.28 |
| | | 36°C | 4.09 | 3.57 | 0.84 | 3.95 | 3.50 | 0.91 | 3.82 | 3.43 | 0.99 | 3.68 | 3.35 | 1.08 | 3.39 | 3.14 | 1.17 | 3.16 | 2.96 | 1.29 |
| 358 | 16°C | 21°C | 3.47 | 2.48 | 0.82 | 3.34 | 2.41 | 0.89 | 3.21 | 2.35 | 0.96 | 3.08 | 2.28 | 1.04 | 2.83 | 2.13 | 1.13 | 2.60 | 2.00 | 1.24 |
| | | 24°C | 3.49 | 3.01 | 0.82 | 3.36 | 2.94 | 0.89 | 3.23 | 2.86 | 0.96 | 3.10 | 2.79 | 1.04 | 2.85 | 2.60 | 1.13 | 2.63 | 2.45 | 1.25 |
| | | 27°C | 3.54 | 3.45 | 0.82 | 3.43 | 3.36 | 0.89 | 3.31 | 3.26 | 0.96 | 3.19 | 3.16 | 1.05 | 2.95 | 2.93 | 1.14 | 2.75 | 2.74 | 1.25 |
| | | 30°C | 3.72 | 3.72 | 0.83 | 3.61 | 3.61 | 0.90 | 3.50 | 3.50 | 0.98 | 3.39 | 3.39 | 1.06 | 3.13 | 3.13 | 1.15 | 2.93 | 2.93 | 1.27 |
| | 19°C | 24°C | 3.82 | 2.37 | 0.83 | 3.68 | 2.32 | 0.90 | 3.54 | 2.26 | 0.98 | 3.40 | 2.20 | 1.06 | 3.12 | 2.05 | 1.15 | 2.88 | 1.93 | 1.27 |
| | | 27°C | 3.83 | 2.75 | 0.83 | 3.69 | 2.68 | 0.90 | 3.55 | 2.62 | 0.98 | 3.41 | 2.56 | 1.06 | 3.13 | 2.39 | 1.15 | 2.89 | 2.26 | 1.27 |
| | | 30°C | 3.86 | 3.38 | 0.83 | 3.72 | 3.31 | 0.90 | 3.59 | 3.23 | 0.98 | 3.45 | 3.15 | 1.06 | 3.18 | 2.94 | 1.15 | 2.95 | 2.77 | 1.27 |
| | | 33°C | 3.94 | 3.94 | 0.84 | 3.83 | 3.83 | 0.91 | 3.71 | 3.71 | 0.99 | 3.59 | 3.59 | 1.07 | 3.33 | 3.33 | 1.16 | 3.11 | 3.11 | 1.28 |
| | 22°C | 27°C | 4.19 | 2.32 | 0.85 | 4.04 | 2.27 | 0.92 | 3.89 | 2.21 | 1.00 | 3.73 | 2.16 | 1.08 | 3.43 | 2.01 | 1.17 | 3.17 | 1.90 | 1.29 |
| | | 30°C | 4.20 | 2.86 | 0.85 | 4.05 | 2.81 | 0.92 | 3.90 | 2.75 | 1.00 | 3.74 | 2.69 | 1.08 | 3.44 | 2.52 | 1.17 | 3.18 | 2.38 | 1.29 |
| | | 33°C | 4.21 | 3.36 | 0.85 | 4.07 | 3.30 | 0.92 | 3.92 | 3.23 | 1.00 | 3.76 | 3.16 | 1.08 | 3.46 | 2.96 | 1.17 | 3.21 | 2.81 | 1.29 |
| | | 36°C | 4.25 | 3.79 | 0.85 | 4.12 | 3.72 | 0.92 | 3.98 | 3.64 | 1.00 | 3.83 | 3.55 | 1.09 | 3.54 | 3.31 | 1.18 | 3.30 | 3.12 | 1.30 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 10°C to 46°C without pressure trip.

## Model: FTK50JXV19 - RK50CXV19
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 418 | 16°C | 21°C | 5.28 | 3.54 | 1.25 | 5.09 | 3.44 | 1.36 | 4.90 | 3.35 | 1.47 | 4.71 | 3.26 | 1.59 | 4.32 | 3.03 | 1.73 | 3.99 | 2.85 | 1.90 |
| | | 24°C | 5.29 | 4.24 | 1.25 | 5.10 | 4.14 | 1.36 | 4.91 | 4.04 | 1.47 | 4.71 | 3.94 | 1.59 | 4.33 | 3.68 | 1.73 | 4.01 | 3.47 | 1.91 |
| | | 27°C | 5.33 | 4.80 | 1.26 | 5.15 | 4.69 | 1.36 | 4.97 | 4.58 | 1.47 | 4.78 | 4.47 | 1.60 | 4.41 | 4.16 | 1.73 | 4.11 | 3.90 | 1.91 |
| | | 30°C | 5.49 | 5.49 | 1.26 | 5.34 | 5.34 | 1.37 | 5.17 | 5.17 | 1.48 | 5.01 | 5.01 | 1.61 | 4.64 | 4.64 | 1.75 | 4.34 | 4.34 | 1.93 |
| | 19°C | 24°C | 5.82 | 3.30 | 1.27 | 5.62 | 3.22 | 1.38 | 5.41 | 3.13 | 1.49 | 5.20 | 3.04 | 1.62 | 4.78 | 2.84 | 1.76 | 4.42 | 2.67 | 1.94 |
| | | 27°C | 5.83 | 3.78 | 1.27 | 5.62 | 3.69 | 1.38 | 5.42 | 3.61 | 1.49 | 5.20 | 3.52 | 1.62 | 4.78 | 3.29 | 1.76 | 4.42 | 3.12 | 1.94 |
| | | 30°C | 5.84 | 4.66 | 1.27 | 5.64 | 4.56 | 1.38 | 5.44 | 4.46 | 1.50 | 5.23 | 4.35 | 1.62 | 4.82 | 4.07 | 1.76 | 4.47 | 3.85 | 1.94 |
| | | 33°C | 5.91 | 5.91 | 1.28 | 5.71 | 5.71 | 1.38 | 5.53 | 5.53 | 1.50 | 5.34 | 5.34 | 1.63 | 4.94 | 4.94 | 1.77 | 4.62 | 4.62 | 1.95 |
| | 22°C | 27°C | 6.41 | 3.23 | 1.30 | 6.19 | 3.15 | 1.40 | 5.96 | 3.08 | 1.52 | 5.73 | 2.99 | 1.65 | 5.27 | 2.79 | 1.79 | 4.88 | 2.63 | 1.97 |
| | | 30°C | 6.41 | 3.94 | 1.30 | 6.19 | 3.86 | 1.40 | 5.96 | 3.77 | 1.52 | 5.73 | 3.68 | 1.65 | 5.27 | 3.44 | 1.79 | 4.88 | 3.27 | 1.97 |
| | | 33°C | 6.41 | 4.60 | 1.30 | 6.19 | 4.51 | 1.40 | 5.97 | 4.42 | 1.52 | 5.73 | 4.33 | 1.65 | 5.28 | 4.07 | 1.79 | 4.89 | 3.86 | 1.98 |
| | | 36°C | 6.43 | 5.22 | 1.30 | 6.22 | 5.11 | 1.41 | 6.01 | 5.01 | 1.53 | 5.79 | 4.90 | 1.66 | 5.34 | 4.59 | 1.80 | 4.96 | 4.35 | 1.98 |
| 471 | 16°C | 21°C | 5.49 | 3.69 | 1.26 | 5.30 | 3.59 | 1.37 | 5.09 | 3.50 | 1.48 | 4.89 | 3.40 | 1.61 | 4.48 | 3.17 | 1.74 | 4.14 | 2.98 | 1.92 |
| | | 24°C | 5.51 | 4.48 | 1.27 | 5.31 | 4.37 | 1.37 | 5.11 | 4.27 | 1.48 | 4.91 | 4.16 | 1.61 | 4.51 | 3.88 | 1.74 | 4.17 | 3.66 | 1.92 |
| | | 27°C | 5.58 | 5.09 | 1.27 | 5.39 | 4.97 | 1.37 | 5.20 | 4.84 | 1.49 | 5.02 | 4.69 | 1.61 | 4.63 | 4.36 | 1.75 | 4.31 | 4.08 | 1.93 |
| | | 30°C | 5.81 | 5.81 | 1.28 | 5.64 | 5.64 | 1.38 | 5.47 | 5.47 | 1.50 | 5.29 | 5.29 | 1.63 | 4.90 | 4.90 | 1.77 | 4.58 | 4.58 | 1.95 |
| | 19°C | 24°C | 6.05 | 3.49 | 1.29 | 5.84 | 3.40 | 1.39 | 5.62 | 3.31 | 1.51 | 5.39 | 3.22 | 1.63 | 4.95 | 3.00 | 1.77 | 4.57 | 2.83 | 1.95 |
| | | 27°C | 6.06 | 4.02 | 1.29 | 5.85 | 3.93 | 1.39 | 5.63 | 3.84 | 1.51 | 5.40 | 3.75 | 1.64 | 4.96 | 3.51 | 1.77 | 4.59 | 3.32 | 1.96 |
| | | 30°C | 6.09 | 4.96 | 1.29 | 5.88 | 4.85 | 1.39 | 5.67 | 4.74 | 1.51 | 5.45 | 4.63 | 1.64 | 5.02 | 4.33 | 1.78 | 4.66 | 4.09 | 1.96 |
| | | 33°C | 6.19 | 6.19 | 1.29 | 6.01 | 6.01 | 1.40 | 5.81 | 5.81 | 1.52 | 5.62 | 5.62 | 1.65 | 5.21 | 5.21 | 1.79 | 4.87 | 4.87 | 1.98 |
| | 22°C | 27°C | 6.65 | 3.42 | 1.31 | 6.42 | 3.34 | 1.42 | 6.18 | 3.25 | 1.54 | 5.93 | 3.16 | 1.67 | 5.45 | 2.95 | 1.81 | 5.04 | 2.78 | 1.99 |
| | | 30°C | 6.66 | 4.19 | 1.31 | 6.42 | 4.11 | 1.42 | 6.18 | 4.01 | 1.54 | 5.94 | 3.92 | 1.67 | 5.46 | 3.67 | 1.81 | 5.05 | 3.48 | 1.99 |
| | | 33°C | 6.67 | 4.91 | 1.31 | 6.44 | 4.82 | 1.42 | 6.20 | 4.72 | 1.54 | 5.96 | 4.62 | 1.67 | 5.48 | 4.33 | 1.81 | 5.08 | 4.11 | 2.00 |
| | | 36°C | 6.71 | 5.55 | 1.31 | 6.49 | 5.45 | 1.42 | 6.27 | 5.33 | 1.54 | 6.04 | 5.21 | 1.67 | 5.57 | 4.88 | 1.82 | 5.20 | 4.60 | 2.00 |
| 529 | 16°C | 21°C | 5.70 | 3.85 | 1.28 | 5.49 | 3.75 | 1.38 | 5.28 | 3.65 | 1.49 | 5.06 | 3.55 | 1.62 | 4.64 | 3.31 | 1.76 | 4.28 | 3.11 | 1.94 |
| | | 24°C | 5.73 | 4.68 | 1.28 | 5.52 | 4.57 | 1.38 | 5.31 | 4.45 | 1.50 | 5.10 | 4.34 | 1.62 | 4.68 | 4.05 | 1.76 | 4.32 | 3.82 | 1.94 |
| | | 27°C | 5.82 | 5.36 | 1.28 | 5.63 | 5.22 | 1.39 | 5.44 | 5.07 | 1.50 | 5.24 | 4.92 | 1.63 | 4.85 | 4.56 | 1.77 | 4.52 | 4.25 | 1.95 |
| | | 30°C | 6.11 | 6.11 | 1.29 | 5.93 | 5.93 | 1.40 | 5.75 | 5.75 | 1.52 | 5.56 | 5.56 | 1.65 | 5.15 | 5.15 | 1.79 | 4.81 | 4.81 | 1.98 |
| | 19°C | 24°C | 6.27 | 3.69 | 1.30 | 6.04 | 3.60 | 1.40 | 5.81 | 3.51 | 1.52 | 5.58 | 3.41 | 1.65 | 5.12 | 3.18 | 1.79 | 4.73 | 3.00 | 1.97 |
| | | 27°C | 6.29 | 4.27 | 1.30 | 6.06 | 4.17 | 1.40 | 5.84 | 4.08 | 1.52 | 5.60 | 3.98 | 1.65 | 5.14 | 3.72 | 1.79 | 4.75 | 3.52 | 1.97 |
| | | 30°C | 6.34 | 5.26 | 1.30 | 6.12 | 5.14 | 1.41 | 5.90 | 5.02 | 1.53 | 5.67 | 4.90 | 1.65 | 5.22 | 4.57 | 1.79 | 4.85 | 4.31 | 1.98 |
| | | 33°C | 6.48 | 6.48 | 1.31 | 6.29 | 6.29 | 1.42 | 6.10 | 6.10 | 1.54 | 5.89 | 5.89 | 1.67 | 5.46 | 5.46 | 1.81 | 5.11 | 5.11 | 2.00 |
| | 22°C | 27°C | 6.88 | 3.61 | 1.32 | 6.64 | 3.53 | 1.43 | 6.39 | 3.44 | 1.55 | 6.13 | 3.35 | 1.68 | 5.63 | 3.13 | 1.82 | 5.20 | 2.95 | 2.01 |
| | | 30°C | 6.90 | 4.45 | 1.32 | 6.65 | 4.37 | 1.43 | 6.40 | 4.27 | 1.55 | 6.14 | 4.18 | 1.68 | 5.64 | 3.91 | 1.82 | 5.22 | 3.71 | 2.01 |
| | | 33°C | 6.92 | 5.22 | 1.32 | 6.68 | 5.13 | 1.43 | 6.43 | 5.02 | 1.55 | 6.18 | 4.91 | 1.69 | 5.69 | 4.60 | 1.83 | 5.27 | 4.37 | 2.01 |
| | | 36°C | 6.98 | 5.89 | 1.33 | 6.76 | 5.78 | 1.44 | 6.53 | 5.66 | 1.56 | 6.29 | 5.52 | 1.69 | 5.81 | 5.15 | 1.84 | 5.42 | 4.84 | 2.03 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from -10°C to 46°C without pressure trip.

## Model: FTK60JXV19 - RK60CXV19
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 507 | 16°C | 21°C | 5.94 | 4.09 | 1.43 | 5.73 | 3.98 | 1.54 | 5.52 | 3.88 | 1.67 | 5.30 | 3.77 | 1.81 | 4.86 | 3.50 | 1.97 | 4.49 | 3.30 | 2.17 |
| | | 24°C | 5.95 | 4.90 | 1.43 | 5.74 | 4.79 | 1.55 | 5.52 | 4.68 | 1.67 | 5.30 | 4.56 | 1.81 | 4.87 | 4.26 | 1.97 | 4.51 | 4.02 | 2.17 |
| | | 27°C | 6.00 | 5.55 | 1.43 | 5.80 | 5.43 | 1.55 | 5.59 | 5.30 | 1.68 | 5.38 | 5.16 | 1.82 | 4.97 | 4.81 | 1.97 | 4.62 | 4.51 | 2.18 |
| | | 30°C | 6.18 | 6.18 | 1.44 | 6.00 | 6.00 | 1.56 | 5.82 | 5.82 | 1.69 | 5.63 | 5.63 | 1.83 | 5.22 | 5.22 | 1.99 | 4.89 | 4.89 | 2.20 |
| | 19°C | 24°C | 6.55 | 3.82 | 1.45 | 6.32 | 3.72 | 1.57 | 6.09 | 3.62 | 1.70 | 5.85 | 3.52 | 1.85 | 5.38 | 3.28 | 2.00 | 4.97 | 3.09 | 2.21 |
| | | 27°C | 6.56 | 4.37 | 1.45 | 6.33 | 4.27 | 1.57 | 6.09 | 4.17 | 1.70 | 5.85 | 4.07 | 1.85 | 5.38 | 3.81 | 2.00 | 4.98 | 3.61 | 2.21 |
| | | 30°C | 6.57 | 5.39 | 1.45 | 6.34 | 5.28 | 1.57 | 6.12 | 5.16 | 1.70 | 5.88 | 5.04 | 1.85 | 5.42 | 4.71 | 2.01 | 5.03 | 4.46 | 2.21 |
| | | 33°C | 6.64 | 6.64 | 1.46 | 6.43 | 6.43 | 1.58 | 6.22 | 6.22 | 1.71 | 6.01 | 6.01 | 1.86 | 5.56 | 5.56 | 2.02 | 5.20 | 5.20 | 2.22 |
| | 22°C | 27°C | 7.21 | 3.74 | 1.48 | 6.96 | 3.65 | 1.60 | 6.71 | 3.56 | 1.74 | 6.44 | 3.46 | 1.88 | 5.93 | 3.22 | 2.04 | 5.48 | 3.04 | 2.25 |
| | | 30°C | 7.21 | 4.56 | 1.48 | 6.96 | 4.46 | 1.60 | 6.71 | 4.36 | 1.74 | 6.44 | 4.25 | 1.88 | 5.93 | 3.98 | 2.04 | 5.49 | 3.78 | 2.25 |
| | | 33°C | 7.21 | 5.32 | 1.48 | 6.97 | 5.22 | 1.60 | 6.71 | 5.12 | 1.74 | 6.45 | 5.01 | 1.88 | 5.93 | 4.70 | 2.04 | 5.50 | 4.47 | 2.25 |
| | | 36°C | 7.24 | 6.03 | 1.48 | 7.00 | 5.91 | 1.60 | 6.76 | 5.79 | 1.74 | 6.51 | 5.66 | 1.89 | 6.00 | 5.31 | 2.05 | 5.58 | 5.04 | 2.26 |
| 585 | 16°C | 21°C | 6.18 | 4.27 | 1.44 | 5.96 | 4.16 | 1.56 | 5.73 | 4.05 | 1.69 | 5.50 | 3.93 | 1.83 | 5.04 | 3.66 | 1.98 | 4.65 | 3.45 | 2.19 |
| | | 24°C | 6.20 | 5.18 | 1.44 | 5.98 | 5.06 | 1.56 | 5.75 | 4.94 | 1.69 | 5.52 | 4.81 | 1.83 | 5.07 | 4.49 | 1.99 | 4.69 | 4.24 | 2.19 |
| | | 27°C | 6.27 | 5.88 | 1.45 | 6.06 | 5.74 | 1.56 | 5.85 | 5.60 | 1.69 | 5.64 | 5.43 | 1.84 | 5.21 | 5.04 | 2.00 | 4.85 | 4.72 | 2.20 |
| | | 30°C | 6.54 | 6.54 | 1.46 | 6.35 | 6.35 | 1.58 | 6.15 | 6.15 | 1.71 | 5.95 | 5.95 | 1.86 | 5.52 | 5.52 | 2.02 | 5.16 | 5.16 | 2.23 |
| | 19°C | 24°C | 6.81 | 4.04 | 1.46 | 6.57 | 3.93 | 1.59 | 6.32 | 3.83 | 1.72 | 6.07 | 3.73 | 1.86 | 5.57 | 3.47 | 2.02 | 5.15 | 3.27 | 2.23 |
| | | 27°C | 6.82 | 4.65 | 1.47 | 6.58 | 4.55 | 1.59 | 6.33 | 4.44 | 1.72 | 6.08 | 4.34 | 1.86 | 5.58 | 4.06 | 2.02 | 5.16 | 3.84 | 2.23 |
| | | 30°C | 6.85 | 5.74 | 1.47 | 6.62 | 5.61 | 1.59 | 6.38 | 5.49 | 1.72 | 6.13 | 5.35 | 1.87 | 5.65 | 5.00 | 2.03 | 5.24 | 4.73 | 2.23 |
| | | 33°C | 6.97 | 6.97 | 1.47 | 6.76 | 6.76 | 1.59 | 6.54 | 6.54 | 1.73 | 6.32 | 6.32 | 1.88 | 5.86 | 5.86 | 2.04 | 5.48 | 5.48 | 2.25 |
| | 22°C | 27°C | 7.48 | 3.95 | 1.49 | 7.22 | 3.86 | 1.62 | 6.95 | 3.76 | 1.75 | 6.67 | 3.66 | 1.90 | 6.13 | 3.41 | 2.06 | 5.67 | 3.22 | 2.27 |
| | | 30°C | 7.49 | 4.85 | 1.49 | 7.23 | 4.75 | 1.62 | 6.96 | 4.64 | 1.75 | 6.68 | 4.53 | 1.90 | 6.14 | 4.25 | 2.06 | 5.68 | 4.03 | 2.27 |
| | | 33°C | 7.50 | 5.68 | 1.49 | 7.24 | 5.57 | 1.62 | 6.98 | 5.46 | 1.75 | 6.70 | 5.34 | 1.90 | 6.17 | 5.01 | 2.06 | 5.72 | 4.76 | 2.27 |
| | | 36°C | 7.55 | 6.42 | 1.50 | 7.31 | 6.30 | 1.62 | 7.05 | 6.17 | 1.76 | 6.80 | 6.03 | 1.91 | 6.27 | 5.64 | 2.07 | 5.85 | 5.32 | 2.28 |
| 654 | 16°C | 21°C | 6.41 | 4.45 | 1.45 | 6.17 | 4.34 | 1.57 | 5.94 | 4.22 | 1.70 | 5.69 | 4.11 | 1.84 | 5.22 | 3.82 | 2.00 | 4.81 | 3.60 | 2.20 |
| | | 24°C | 6.44 | 5.41 | 1.45 | 6.21 | 5.28 | 1.57 | 5.98 | 5.15 | 1.70 | 5.73 | 5.02 | 1.85 | 5.27 | 4.68 | 2.00 | 4.86 | 4.41 | 2.21 |
| | | 27°C | 6.55 | 6.20 | 1.46 | 6.33 | 6.04 | 1.58 | 6.12 | 5.87 | 1.71 | 5.90 | 5.69 | 1.86 | 5.45 | 5.27 | 2.02 | 5.08 | 4.92 | 2.23 |
| | | 30°C | 6.87 | 6.87 | 1.47 | 6.67 | 6.67 | 1.59 | 6.47 | 6.47 | 1.73 | 6.26 | 6.26 | 1.88 | 5.79 | 5.79 | 2.04 | 5.41 | 5.41 | 2.25 |
| | 19°C | 24°C | 7.05 | 4.27 | 1.48 | 6.80 | 4.16 | 1.60 | 6.54 | 4.06 | 1.73 | 6.27 | 3.95 | 1.88 | 5.76 | 3.68 | 2.04 | 5.32 | 3.47 | 2.24 |
| | | 27°C | 7.08 | 4.94 | 1.48 | 6.82 | 4.83 | 1.60 | 6.56 | 4.71 | 1.73 | 6.30 | 4.60 | 1.88 | 5.78 | 4.30 | 2.04 | 5.35 | 4.07 | 2.25 |
| | | 30°C | 7.13 | 6.08 | 1.48 | 6.88 | 5.95 | 1.60 | 6.63 | 5.81 | 1.74 | 6.38 | 5.67 | 1.88 | 5.87 | 5.29 | 2.04 | 5.45 | 4.99 | 2.25 |
| | | 33°C | 7.29 | 7.29 | 1.49 | 7.08 | 7.08 | 1.61 | 6.86 | 6.86 | 1.75 | 6.63 | 6.63 | 1.90 | 6.14 | 6.14 | 2.06 | 5.75 | 5.75 | 2.28 |
| | 22°C | 27°C | 7.74 | 4.18 | 1.50 | 7.47 | 4.09 | 1.63 | 7.19 | 3.98 | 1.77 | 6.90 | 3.88 | 1.92 | 6.33 | 3.62 | 2.08 | 5.85 | 3.42 | 2.29 |
| | | 30°C | 7.76 | 5.15 | 1.51 | 7.48 | 5.05 | 1.63 | 7.20 | 4.94 | 1.77 | 6.91 | 4.83 | 1.92 | 6.35 | 4.52 | 2.08 | 5.87 | 4.29 | 2.29 |
| | | 33°C | 7.78 | 6.04 | 1.51 | 7.51 | 5.93 | 1.63 | 7.24 | 5.81 | 1.77 | 6.95 | 5.68 | 1.92 | 6.40 | 5.32 | 2.08 | 5.93 | 5.05 | 2.29 |
| | | 36°C | 7.85 | 6.81 | 1.51 | 7.61 | 6.69 | 1.64 | 7.34 | 6.54 | 1.78 | 7.08 | 6.38 | 1.93 | 6.54 | 5.95 | 2.09 | 6.10 | 5.60 | 2.31 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from -10°C to 46°C without pressure trip.

# R410A Heatpump

## Model: FTXN25JXV1 - RXN25FXV1
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 215 | 16°C | 21°C | 2.41 | 1.89 | 0.53 | 2.33 | 1.84 | 0.57 | 2.24 | 1.79 | 0.62 | 2.15 | 1.74 | 0.67 | 1.98 | 1.62 | 0.73 | 1.82 | 1.52 | 0.80 |
| | | 24°C | 2.42 | 2.26 | 0.53 | 2.33 | 2.21 | 0.57 | 2.24 | 2.16 | 0.62 | 2.15 | 2.10 | 0.67 | 1.98 | 1.97 | 0.73 | 1.83 | 1.83 | 0.80 |
| | | 27°C | 2.44 | 2.44 | 0.53 | 2.35 | 2.35 | 0.57 | 2.27 | 2.27 | 0.62 | 2.19 | 2.19 | 0.67 | 2.02 | 2.02 | 0.73 | 1.88 | 1.88 | 0.80 |
| | | 30°C | 2.51 | 2.51 | 0.53 | 2.44 | 2.44 | 0.57 | 2.36 | 2.36 | 0.62 | 2.29 | 2.29 | 0.68 | 2.12 | 2.12 | 0.73 | 1.98 | 1.98 | 0.81 |
| | 19°C | 24°C | 2.66 | 1.76 | 0.53 | 2.57 | 1.72 | 0.58 | 2.47 | 1.67 | 0.63 | 2.38 | 1.63 | 0.68 | 2.18 | 1.51 | 0.74 | 2.02 | 1.43 | 0.81 |
| | | 27°C | 2.66 | 2.02 | 0.53 | 2.57 | 1.97 | 0.58 | 2.48 | 1.93 | 0.63 | 2.38 | 1.88 | 0.68 | 2.19 | 1.76 | 0.74 | 2.02 | 1.67 | 0.81 |
| | | 30°C | 2.67 | 2.49 | 0.54 | 2.58 | 2.44 | 0.58 | 2.48 | 2.38 | 0.63 | 2.39 | 2.32 | 0.68 | 2.20 | 2.17 | 0.74 | 2.04 | 2.04 | 0.81 |
| | | 33°C | 2.70 | 2.70 | 0.54 | 2.61 | 2.61 | 0.58 | 2.53 | 2.53 | 0.63 | 2.44 | 2.44 | 0.68 | 2.26 | 2.26 | 0.74 | 2.11 | 2.11 | 0.82 |
| | 22°C | 27°C | 2.93 | 1.73 | 0.54 | 2.83 | 1.68 | 0.59 | 2.72 | 1.64 | 0.64 | 2.62 | 1.60 | 0.69 | 2.41 | 1.49 | 0.75 | 2.23 | 1.40 | 0.83 |
| | | 30°C | 2.93 | 2.10 | 0.54 | 2.83 | 2.06 | 0.59 | 2.72 | 2.01 | 0.64 | 2.62 | 1.96 | 0.69 | 2.41 | 1.84 | 0.75 | 2.23 | 1.74 | 0.83 |
| | | 33°C | 2.93 | 2.46 | 0.54 | 2.83 | 2.41 | 0.59 | 2.73 | 2.36 | 0.64 | 2.62 | 2.31 | 0.69 | 2.41 | 2.17 | 0.75 | 2.23 | 2.06 | 0.83 |
| | | 36°C | 2.94 | 2.79 | 0.55 | 2.84 | 2.73 | 0.59 | 2.74 | 2.67 | 0.64 | 2.64 | 2.61 | 0.70 | 2.44 | 2.44 | 0.75 | 2.27 | 2.27 | 0.83 |
| 272 | 16°C | 21°C | 2.51 | 1.97 | 0.53 | 2.42 | 1.92 | 0.57 | 2.33 | 1.87 | 0.62 | 2.23 | 1.82 | 0.67 | 2.05 | 1.69 | 0.73 | 1.89 | 1.59 | 0.81 |
| | | 24°C | 2.52 | 2.39 | 0.53 | 2.43 | 2.34 | 0.57 | 2.34 | 2.28 | 0.62 | 2.24 | 2.22 | 0.68 | 2.06 | 2.06 | 0.73 | 1.90 | 1.90 | 0.81 |
| | | 27°C | 2.55 | 2.55 | 0.53 | 2.46 | 2.46 | 0.58 | 2.38 | 2.38 | 0.62 | 2.29 | 2.29 | 0.68 | 2.12 | 2.12 | 0.74 | 1.97 | 1.97 | 0.81 |
| | | 30°C | 2.66 | 2.66 | 0.54 | 2.58 | 2.58 | 0.58 | 2.50 | 2.50 | 0.63 | 2.42 | 2.42 | 0.68 | 2.24 | 2.24 | 0.74 | 2.09 | 2.09 | 0.82 |
| | 19°C | 24°C | 2.77 | 1.86 | 0.54 | 2.67 | 1.82 | 0.58 | 2.57 | 1.77 | 0.63 | 2.46 | 1.72 | 0.69 | 2.26 | 1.60 | 0.74 | 2.09 | 1.51 | 0.82 |
| | | 27°C | 2.77 | 2.15 | 0.54 | 2.67 | 2.10 | 0.58 | 2.57 | 2.05 | 0.63 | 2.47 | 2.00 | 0.69 | 2.27 | 1.87 | 0.75 | 2.10 | 1.77 | 0.82 |
| | | 30°C | 2.78 | 2.65 | 0.54 | 2.69 | 2.59 | 0.59 | 2.59 | 2.53 | 0.63 | 2.49 | 2.47 | 0.69 | 2.29 | 2.29 | 0.75 | 2.13 | 2.13 | 0.82 |
| | | 33°C | 2.83 | 2.83 | 0.54 | 2.74 | 2.74 | 0.59 | 2.66 | 2.66 | 0.64 | 2.57 | 2.57 | 0.69 | 2.38 | 2.38 | 0.75 | 2.22 | 2.22 | 0.83 |
| | 22°C | 27°C | 3.04 | 1.83 | 0.55 | 2.93 | 1.78 | 0.60 | 2.82 | 1.74 | 0.65 | 2.71 | 1.69 | 0.70 | 2.49 | 1.58 | 0.76 | 2.30 | 1.49 | 0.84 |
| | | 30°C | 3.04 | 2.24 | 0.55 | 2.94 | 2.19 | 0.60 | 2.83 | 2.14 | 0.65 | 2.71 | 2.09 | 0.70 | 2.49 | 1.96 | 0.76 | 2.31 | 1.86 | 0.84 |
| | | 33°C | 3.05 | 2.62 | 0.55 | 2.94 | 2.57 | 0.60 | 2.83 | 2.52 | 0.65 | 2.72 | 2.47 | 0.70 | 2.51 | 2.32 | 0.76 | 2.32 | 2.20 | 0.84 |
| | | 36°C | 3.07 | 2.97 | 0.55 | 2.97 | 2.91 | 0.60 | 2.86 | 2.85 | 0.65 | 2.76 | 2.76 | 0.70 | 2.55 | 2.55 | 0.76 | 2.37 | 2.37 | 0.84 |
| 345 | 16°C | 21°C | 2.60 | 2.06 | 0.54 | 2.51 | 2.00 | 0.58 | 2.41 | 1.95 | 0.63 | 2.31 | 1.90 | 0.68 | 2.12 | 1.77 | 0.74 | 1.96 | 1.66 | 0.81 |
| | | 24°C | 2.62 | 2.50 | 0.54 | 2.52 | 2.44 | 0.58 | 2.43 | 2.38 | 0.63 | 2.33 | 2.32 | 0.68 | 2.14 | 2.14 | 0.74 | 1.98 | 1.98 | 0.81 |
| | | 27°C | 2.66 | 2.66 | 0.54 | 2.57 | 2.57 | 0.58 | 2.49 | 2.49 | 0.63 | 2.40 | 2.40 | 0.68 | 2.22 | 2.22 | 0.74 | 2.06 | 2.06 | 0.82 |
| | | 30°C | 2.79 | 2.79 | 0.54 | 2.71 | 2.71 | 0.59 | 2.63 | 2.63 | 0.64 | 2.54 | 2.54 | 0.69 | 2.35 | 2.35 | 0.75 | 2.20 | 2.20 | 0.83 |
| | 19°C | 24°C | 2.87 | 1.97 | 0.54 | 2.76 | 1.92 | 0.59 | 2.66 | 1.87 | 0.64 | 2.55 | 1.82 | 0.69 | 2.34 | 1.70 | 0.75 | 2.16 | 1.60 | 0.83 |
| | | 27°C | 2.88 | 2.28 | 0.54 | 2.77 | 2.23 | 0.59 | 2.67 | 2.18 | 0.64 | 2.56 | 2.12 | 0.69 | 2.35 | 1.99 | 0.75 | 2.17 | 1.88 | 0.83 |
| | | 30°C | 2.90 | 2.81 | 0.55 | 2.80 | 2.75 | 0.59 | 2.70 | 2.68 | 0.64 | 2.59 | 2.59 | 0.69 | 2.39 | 2.39 | 0.75 | 2.22 | 2.22 | 0.83 |
| | | 33°C | 2.96 | 2.96 | 0.55 | 2.87 | 2.87 | 0.59 | 2.79 | 2.79 | 0.65 | 2.69 | 2.69 | 0.70 | 2.50 | 2.50 | 0.76 | 2.33 | 2.33 | 0.84 |
| | 22°C | 27°C | 3.15 | 1.93 | 0.55 | 3.03 | 1.89 | 0.60 | 2.92 | 1.84 | 0.65 | 2.80 | 1.79 | 0.71 | 2.57 | 1.67 | 0.77 | 2.38 | 1.58 | 0.84 |
| | | 30°C | 3.15 | 2.38 | 0.55 | 3.04 | 2.33 | 0.60 | 2.93 | 2.28 | 0.65 | 2.81 | 2.23 | 0.71 | 2.58 | 2.09 | 0.77 | 2.39 | 1.98 | 0.84 |
| | | 33°C | 3.16 | 2.79 | 0.56 | 3.05 | 2.74 | 0.60 | 2.94 | 2.68 | 0.65 | 2.83 | 2.62 | 0.71 | 2.60 | 2.46 | 0.77 | 2.41 | 2.33 | 0.85 |
| | | 36°C | 3.19 | 3.15 | 0.56 | 3.09 | 3.09 | 0.60 | 2.98 | 2.98 | 0.65 | 2.88 | 2.88 | 0.71 | 2.66 | 2.66 | 0.77 | 2.48 | 2.48 | 0.85 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 10°C to 46°C without pressure trip.

## Heating Mode

| Indoor | Outdoor WB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -15 | | -10 | | -5 | | 0 | | 6 | | 10 | |
| DB°C | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 16 | 1.42 | 0.50 | 1.77 | 0.54 | 2.11 | 0.57 | 2.46 | 0.61 | 2.87 | 0.65 | 3.14 | 0.68 |
| 18 | 1.41 | 0.53 | 1.75 | 0.56 | 2.10 | 0.60 | 2.44 | 0.63 | 2.85 | 0.68 | 3.13 | 0.70 |
| 20 | 1.40 | 0.55 | 1.74 | 0.59 | 2.09 | 0.62 | 2.43 | 0.66 | 2.84 | 0.70 | 3.11 | 0.73 |
| 21 | 1.39 | 0.56 | 1.73 | 0.60 | 2.08 | 0.63 | 2.42 | 0.67 | 2.84 | 0.71 | 3.11 | 0.74 |
| 22 | 1.38 | 0.58 | 1.73 | 0.61 | 2.07 | 0.65 | 2.41 | 0.68 | 2.83 | 0.72 | 3.10 | 0.75 |
| 24 | 1.37 | 0.61 | 1.71 | 0.64 | 2.06 | 0.68 | 2.40 | 0.71 | 2.81 | 0.75 | 3.08 | 0.78 |

**Remark:**
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 10°C to 46°C without pressure trip.

## Model: FTXN35JXV1 - RXN35FXV1
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 232 | 16°C | 21°C | 3.21 | 2.27 | 0.81 | 3.10 | 2.21 | 0.87 | 2.99 | 2.15 | 0.94 | 2.87 | 2.09 | 1.02 | 2.63 | 1.95 | 1.11 | 2.43 | 1.83 | 1.22 |
| | | 24°C | 3.22 | 2.72 | 0.81 | 3.10 | 2.66 | 0.87 | 2.99 | 2.60 | 0.94 | 2.87 | 2.53 | 1.02 | 2.64 | 2.37 | 1.11 | 2.44 | 2.23 | 1.22 |
| | | 27°C | 3.24 | 3.09 | 0.81 | 3.14 | 3.02 | 0.87 | 3.03 | 2.95 | 0.95 | 2.91 | 2.87 | 1.03 | 2.69 | 2.67 | 1.11 | 2.50 | 2.50 | 1.23 |
| | | 30°C | 3.34 | 3.34 | 0.81 | 3.25 | 3.25 | 0.88 | 3.15 | 3.15 | 0.95 | 3.05 | 3.05 | 1.03 | 2.83 | 2.83 | 1.12 | 2.64 | 2.64 | 1.24 |
| | 19°C | 24°C | 3.55 | 2.12 | 0.82 | 3.42 | 2.07 | 0.89 | 3.30 | 2.01 | 0.96 | 3.16 | 1.96 | 1.04 | 2.91 | 1.82 | 1.13 | 2.69 | 1.72 | 1.24 |
| | | 27°C | 3.55 | 2.43 | 0.82 | 3.42 | 2.37 | 0.89 | 3.30 | 2.32 | 0.96 | 3.17 | 2.26 | 1.04 | 2.91 | 2.12 | 1.13 | 2.69 | 2.01 | 1.24 |
| | | 30°C | 3.55 | 3.00 | 0.82 | 3.43 | 2.93 | 0.89 | 3.31 | 2.87 | 0.96 | 3.18 | 2.80 | 1.04 | 2.93 | 2.62 | 1.13 | 2.72 | 2.48 | 1.25 |
| | | 33°C | 3.60 | 3.60 | 0.82 | 3.48 | 3.48 | 0.89 | 3.37 | 3.37 | 0.96 | 3.25 | 3.25 | 1.05 | 3.01 | 3.01 | 1.14 | 2.81 | 2.81 | 1.25 |
| | 22°C | 27°C | 3.90 | 2.08 | 0.83 | 3.77 | 2.03 | 0.90 | 3.63 | 1.98 | 0.98 | 3.49 | 1.92 | 1.06 | 3.21 | 1.79 | 1.15 | 2.97 | 1.69 | 1.27 |
| | | 30°C | 3.90 | 2.53 | 0.83 | 3.77 | 2.48 | 0.90 | 3.63 | 2.42 | 0.98 | 3.49 | 2.36 | 1.06 | 3.21 | 2.21 | 1.15 | 2.97 | 2.10 | 1.27 |
| | | 33°C | 3.90 | 2.96 | 0.83 | 3.77 | 2.90 | 0.90 | 3.63 | 2.84 | 0.98 | 3.49 | 2.78 | 1.06 | 3.21 | 2.61 | 1.15 | 2.98 | 2.48 | 1.27 |
| | | 36°C | 3.92 | 3.35 | 0.83 | 3.79 | 3.29 | 0.90 | 3.66 | 3.22 | 0.98 | 3.52 | 3.15 | 1.06 | 3.25 | 2.95 | 1.15 | 3.02 | 2.80 | 1.27 |
| 282 | 16°C | 21°C | 3.34 | 2.37 | 0.81 | 3.22 | 2.31 | 0.88 | 3.10 | 2.25 | 0.95 | 2.98 | 2.19 | 1.03 | 2.73 | 2.04 | 1.12 | 2.52 | 1.92 | 1.23 |
| | | 24°C | 3.35 | 2.88 | 0.81 | 3.23 | 2.81 | 0.88 | 3.11 | 2.74 | 0.95 | 2.99 | 2.68 | 1.03 | 2.74 | 2.50 | 1.12 | 2.54 | 2.36 | 1.23 |
| | | 27°C | 3.40 | 3.27 | 0.81 | 3.28 | 3.19 | 0.88 | 3.17 | 3.11 | 0.96 | 3.05 | 3.02 | 1.04 | 2.82 | 2.80 | 1.13 | 2.63 | 2.62 | 1.24 |
| | | 30°C | 3.54 | 3.54 | 0.82 | 3.43 | 3.43 | 0.89 | 3.33 | 3.33 | 0.96 | 3.22 | 3.22 | 1.05 | 2.99 | 2.99 | 1.14 | 2.79 | 2.79 | 1.26 |
| | 19°C | 24°C | 3.69 | 2.24 | 0.83 | 3.55 | 2.19 | 0.89 | 3.42 | 2.13 | 0.97 | 3.28 | 2.07 | 1.05 | 3.01 | 1.93 | 1.14 | 2.79 | 1.82 | 1.26 |
| | | 27°C | 3.69 | 2.58 | 0.83 | 3.56 | 2.53 | 0.89 | 3.43 | 2.47 | 0.97 | 3.29 | 2.41 | 1.05 | 3.02 | 2.25 | 1.14 | 2.79 | 2.13 | 1.26 |
| | | 30°C | 3.71 | 3.19 | 0.83 | 3.58 | 3.12 | 0.90 | 3.45 | 3.05 | 0.97 | 3.32 | 2.97 | 1.05 | 3.06 | 2.78 | 1.14 | 2.84 | 2.63 | 1.26 |
| | | 33°C | 3.77 | 3.77 | 0.83 | 3.66 | 3.66 | 0.90 | 3.54 | 3.54 | 0.98 | 3.42 | 3.42 | 1.06 | 3.17 | 3.17 | 1.15 | 2.96 | 2.96 | 1.27 |
| | 22°C | 27°C | 4.05 | 2.20 | 0.84 | 3.91 | 2.15 | 0.91 | 3.76 | 2.09 | 0.99 | 3.61 | 2.03 | 1.07 | 3.32 | 1.90 | 1.16 | 3.07 | 1.79 | 1.28 |
| | | 30°C | 4.05 | 2.70 | 0.84 | 3.91 | 2.64 | 0.91 | 3.77 | 2.58 | 0.99 | 3.62 | 2.52 | 1.07 | 3.32 | 2.36 | 1.16 | 3.07 | 2.24 | 1.28 |
| | | 33°C | 4.06 | 3.16 | 0.84 | 3.92 | 3.10 | 0.91 | 3.78 | 3.04 | 0.99 | 3.63 | 2.97 | 1.07 | 3.34 | 2.79 | 1.16 | 3.09 | 2.65 | 1.28 |
| | | 36°C | 4.09 | 3.57 | 0.84 | 3.95 | 3.50 | 0.91 | 3.82 | 3.43 | 0.99 | 3.68 | 3.35 | 1.08 | 3.39 | 3.14 | 1.17 | 3.16 | 2.96 | 1.29 |
| 358 | 16°C | 21°C | 3.47 | 2.48 | 0.82 | 3.34 | 2.41 | 0.89 | 3.21 | 2.35 | 0.96 | 3.08 | 2.28 | 1.04 | 2.83 | 2.13 | 1.13 | 2.60 | 2.00 | 1.24 |
| | | 24°C | 3.49 | 3.01 | 0.82 | 3.36 | 2.94 | 0.89 | 3.23 | 2.86 | 0.96 | 3.10 | 2.79 | 1.04 | 2.85 | 2.60 | 1.13 | 2.63 | 2.45 | 1.25 |
| | | 27°C | 3.54 | 3.45 | 0.82 | 3.43 | 3.36 | 0.89 | 3.31 | 3.26 | 0.96 | 3.19 | 3.16 | 1.05 | 2.95 | 2.93 | 1.14 | 2.75 | 2.74 | 1.25 |
| | | 30°C | 3.72 | 3.72 | 0.83 | 3.61 | 3.61 | 0.90 | 3.50 | 3.50 | 0.98 | 3.39 | 3.39 | 1.06 | 3.13 | 3.13 | 1.15 | 2.93 | 2.93 | 1.27 |
| | 19°C | 24°C | 3.82 | 2.37 | 0.83 | 3.68 | 2.32 | 0.90 | 3.54 | 2.26 | 0.98 | 3.40 | 2.20 | 1.06 | 3.12 | 2.05 | 1.15 | 2.88 | 1.93 | 1.27 |
| | | 27°C | 3.83 | 2.75 | 0.83 | 3.69 | 2.68 | 0.90 | 3.55 | 2.62 | 0.98 | 3.41 | 2.56 | 1.06 | 3.13 | 2.39 | 1.15 | 2.89 | 2.26 | 1.27 |
| | | 30°C | 3.86 | 3.38 | 0.83 | 3.72 | 3.31 | 0.90 | 3.59 | 3.23 | 0.98 | 3.45 | 3.15 | 1.06 | 3.18 | 2.94 | 1.15 | 2.95 | 2.77 | 1.27 |
| | | 33°C | 3.94 | 3.94 | 0.84 | 3.83 | 3.83 | 0.91 | 3.71 | 3.71 | 0.99 | 3.59 | 3.59 | 1.07 | 3.33 | 3.33 | 1.16 | 3.11 | 3.11 | 1.28 |
| | 22°C | 27°C | 4.19 | 2.32 | 0.85 | 4.04 | 2.27 | 0.92 | 3.89 | 2.21 | 1.00 | 3.73 | 2.16 | 1.08 | 3.43 | 2.01 | 1.17 | 3.17 | 1.90 | 1.29 |
| | | 30°C | 4.20 | 2.86 | 0.85 | 4.05 | 2.81 | 0.92 | 3.90 | 2.75 | 1.00 | 3.74 | 2.69 | 1.08 | 3.44 | 2.52 | 1.17 | 3.18 | 2.38 | 1.29 |
| | | 33°C | 4.21 | 3.36 | 0.85 | 4.07 | 3.30 | 0.92 | 3.92 | 3.23 | 1.00 | 3.76 | 3.16 | 1.08 | 3.46 | 2.96 | 1.17 | 3.21 | 2.81 | 1.29 |
| | | 36°C | 4.25 | 3.79 | 0.85 | 4.12 | 3.72 | 0.92 | 3.98 | 3.64 | 1.00 | 3.83 | 3.55 | 1.09 | 3.54 | 3.31 | 1.18 | 3.30 | 3.12 | 1.30 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SHC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 10°C to 46°C without pressure trip.

## Heating Mode

| Indoor | Outdoor WB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -15 | | -10 | | -5 | | 0 | | 6 | | 10 | |
| DB°C | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 16 | 1.80 | 0.68 | 2.23 | 0.73 | 2.66 | 0.78 | 3.10 | 0.83 | 3.62 | 0.88 | 3.96 | 0.92 |
| 18 | 1.78 | 0.72 | 2.21 | 0.77 | 2.65 | 0.81 | 3.08 | 0.86 | 3.60 | 0.92 | 3.94 | 0.96 |
| 20 | 1.76 | 0.75 | 2.19 | 0.80 | 2.63 | 0.84 | 3.06 | 0.89 | 3.58 | 0.95 | 3.93 | 0.99 |
| 21 | 1.75 | 0.77 | 2.19 | 0.82 | 2.62 | 0.86 | 3.05 | 0.91 | 3.57 | 0.97 | 3.92 | 1.01 |
| 22 | 1.74 | 0.78 | 2.18 | 0.83 | 2.61 | 0.88 | 3.04 | 0.93 | 3.56 | 0.98 | 3.91 | 1.02 |
| 24 | 1.72 | 0.82 | 2.16 | 0.87 | 2.59 | 0.92 | 3.02 | 0.96 | 3.54 | 1.02 | 3.89 | 1.06 |

**Remark:**
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 10°C to 46°C without pressure trip.

## Model: FTXN50JXV1 - RXN50CXV1
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 418 | 16°C | 21°C | 5.28 | 3.54 | 1.25 | 5.09 | 3.44 | 1.36 | 4.90 | 3.35 | 1.47 | 4.71 | 3.26 | 1.59 | 4.32 | 3.03 | 1.73 | 3.99 | 2.85 | 1.90 |
| | | 24°C | 5.29 | 4.24 | 1.25 | 5.10 | 4.14 | 1.36 | 4.91 | 4.04 | 1.47 | 4.71 | 3.94 | 1.59 | 4.33 | 3.68 | 1.73 | 4.01 | 3.47 | 1.91 |
| | | 27°C | 5.33 | 4.80 | 1.26 | 5.15 | 4.69 | 1.36 | 4.97 | 4.58 | 1.47 | 4.78 | 4.47 | 1.60 | 4.41 | 4.16 | 1.73 | 4.11 | 3.90 | 1.91 |
| | | 30°C | 5.49 | 5.49 | 1.26 | 5.34 | 5.34 | 1.37 | 5.17 | 5.17 | 1.48 | 5.01 | 5.01 | 1.61 | 4.64 | 4.64 | 1.75 | 4.34 | 4.34 | 1.93 |
| | 19°C | 24°C | 5.82 | 3.30 | 1.27 | 5.62 | 3.22 | 1.38 | 5.41 | 3.13 | 1.49 | 5.20 | 3.04 | 1.62 | 4.78 | 2.84 | 1.76 | 4.42 | 2.67 | 1.94 |
| | | 27°C | 5.83 | 3.78 | 1.27 | 5.62 | 3.69 | 1.38 | 5.42 | 3.61 | 1.49 | 5.20 | 3.52 | 1.62 | 4.78 | 3.29 | 1.76 | 4.42 | 3.12 | 1.94 |
| | | 30°C | 5.84 | 4.66 | 1.27 | 5.64 | 4.56 | 1.38 | 5.44 | 4.46 | 1.50 | 5.23 | 4.35 | 1.62 | 4.82 | 4.07 | 1.76 | 4.47 | 3.85 | 1.94 |
| | | 33°C | 5.91 | 5.91 | 1.28 | 5.71 | 5.71 | 1.38 | 5.53 | 5.53 | 1.50 | 5.34 | 5.34 | 1.63 | 4.94 | 4.94 | 1.77 | 4.62 | 4.62 | 1.95 |
| | 22°C | 27°C | 6.41 | 3.23 | 1.30 | 6.19 | 3.15 | 1.40 | 5.96 | 3.08 | 1.52 | 5.73 | 2.99 | 1.65 | 5.27 | 2.79 | 1.79 | 4.88 | 2.63 | 1.97 |
| | | 30°C | 6.41 | 3.94 | 1.30 | 6.19 | 3.86 | 1.40 | 5.96 | 3.77 | 1.52 | 5.73 | 3.68 | 1.65 | 5.27 | 3.44 | 1.79 | 4.88 | 3.27 | 1.97 |
| | | 33°C | 6.41 | 4.60 | 1.30 | 6.19 | 4.51 | 1.40 | 5.97 | 4.42 | 1.52 | 5.73 | 4.33 | 1.65 | 5.28 | 4.07 | 1.79 | 4.89 | 3.86 | 1.98 |
| | | 36°C | 6.43 | 5.22 | 1.30 | 6.22 | 5.11 | 1.41 | 6.01 | 5.01 | 1.53 | 5.79 | 4.90 | 1.66 | 5.34 | 4.59 | 1.80 | 4.96 | 4.35 | 1.98 |
| 471 | 16°C | 21°C | 5.49 | 3.69 | 1.26 | 5.30 | 3.59 | 1.37 | 5.09 | 3.50 | 1.48 | 4.89 | 3.40 | 1.61 | 4.48 | 3.17 | 1.74 | 4.14 | 2.98 | 1.92 |
| | | 24°C | 5.51 | 4.48 | 1.27 | 5.31 | 4.37 | 1.37 | 5.11 | 4.27 | 1.48 | 4.91 | 4.16 | 1.61 | 4.51 | 3.88 | 1.74 | 4.17 | 3.66 | 1.92 |
| | | 27°C | 5.58 | 5.09 | 1.27 | 5.39 | 4.97 | 1.37 | 5.20 | 4.84 | 1.49 | 5.02 | 4.69 | 1.61 | 4.63 | 4.36 | 1.75 | 4.31 | 4.08 | 1.93 |
| | | 30°C | 5.81 | 5.81 | 1.28 | 5.64 | 5.64 | 1.38 | 5.47 | 5.47 | 1.50 | 5.29 | 5.29 | 1.63 | 4.90 | 4.90 | 1.77 | 4.58 | 4.58 | 1.95 |
| | 19°C | 24°C | 6.05 | 3.49 | 1.29 | 5.84 | 3.40 | 1.39 | 5.62 | 3.31 | 1.51 | 5.39 | 3.22 | 1.63 | 4.95 | 3.00 | 1.77 | 4.57 | 2.83 | 1.95 |
| | | 27°C | 6.06 | 4.02 | 1.29 | 5.85 | 3.93 | 1.39 | 5.63 | 3.84 | 1.51 | 5.40 | 3.75 | 1.64 | 4.96 | 3.51 | 1.77 | 4.59 | 3.32 | 1.96 |
| | | 30°C | 6.09 | 4.96 | 1.29 | 5.88 | 4.85 | 1.39 | 5.67 | 4.74 | 1.51 | 5.45 | 4.63 | 1.64 | 5.02 | 4.33 | 1.78 | 4.66 | 4.09 | 1.96 |
| | | 33°C | 6.19 | 6.19 | 1.29 | 6.01 | 6.01 | 1.40 | 5.81 | 5.81 | 1.52 | 5.62 | 5.62 | 1.65 | 5.21 | 5.21 | 1.79 | 4.87 | 4.87 | 1.98 |
| | 22°C | 27°C | 6.65 | 3.42 | 1.31 | 6.42 | 3.34 | 1.42 | 6.18 | 3.25 | 1.54 | 5.93 | 3.16 | 1.67 | 5.45 | 2.95 | 1.81 | 5.04 | 2.78 | 1.99 |
| | | 30°C | 6.66 | 4.19 | 1.31 | 6.42 | 4.11 | 1.42 | 6.18 | 4.01 | 1.54 | 5.94 | 3.92 | 1.67 | 5.46 | 3.67 | 1.81 | 5.05 | 3.48 | 1.99 |
| | | 33°C | 6.67 | 4.91 | 1.31 | 6.44 | 4.82 | 1.42 | 6.20 | 4.72 | 1.54 | 5.96 | 4.62 | 1.67 | 5.48 | 4.33 | 1.81 | 5.08 | 4.11 | 2.00 |
| | | 36°C | 6.71 | 5.55 | 1.31 | 6.49 | 5.45 | 1.42 | 6.27 | 5.33 | 1.54 | 6.04 | 5.21 | 1.67 | 5.57 | 4.88 | 1.82 | 5.20 | 4.60 | 2.00 |
| 529 | 16°C | 21°C | 5.70 | 3.85 | 1.28 | 5.49 | 3.75 | 1.38 | 5.28 | 3.65 | 1.49 | 5.06 | 3.55 | 1.62 | 4.64 | 3.31 | 1.76 | 4.28 | 3.11 | 1.94 |
| | | 24°C | 5.73 | 4.68 | 1.28 | 5.52 | 4.57 | 1.38 | 5.31 | 4.45 | 1.50 | 5.10 | 4.34 | 1.62 | 4.68 | 4.05 | 1.76 | 4.32 | 3.82 | 1.94 |
| | | 27°C | 5.82 | 5.36 | 1.28 | 5.63 | 5.22 | 1.39 | 5.44 | 5.07 | 1.50 | 5.24 | 4.92 | 1.63 | 4.85 | 4.56 | 1.77 | 4.52 | 4.25 | 1.95 |
| | | 30°C | 6.11 | 6.11 | 1.29 | 5.93 | 5.93 | 1.40 | 5.75 | 5.75 | 1.52 | 5.56 | 5.56 | 1.65 | 5.15 | 5.15 | 1.79 | 4.81 | 4.81 | 1.98 |
| | 19°C | 24°C | 6.27 | 3.69 | 1.30 | 6.04 | 3.60 | 1.40 | 5.81 | 3.51 | 1.52 | 5.58 | 3.41 | 1.65 | 5.12 | 3.18 | 1.79 | 4.73 | 3.00 | 1.97 |
| | | 27°C | 6.29 | 4.27 | 1.30 | 6.06 | 4.17 | 1.40 | 5.84 | 4.08 | 1.52 | 5.60 | 3.98 | 1.65 | 5.14 | 3.72 | 1.79 | 4.75 | 3.52 | 1.97 |
| | | 30°C | 6.34 | 5.26 | 1.30 | 6.12 | 5.14 | 1.41 | 5.90 | 5.02 | 1.53 | 5.67 | 4.90 | 1.65 | 5.22 | 4.57 | 1.79 | 4.85 | 4.31 | 1.98 |
| | | 33°C | 6.48 | 6.48 | 1.31 | 6.29 | 6.29 | 1.42 | 6.10 | 6.10 | 1.54 | 5.89 | 5.89 | 1.67 | 5.46 | 5.46 | 1.81 | 5.11 | 5.11 | 2.00 |
| | 22°C | 27°C | 6.88 | 3.61 | 1.32 | 6.64 | 3.53 | 1.43 | 6.39 | 3.44 | 1.55 | 6.13 | 3.35 | 1.68 | 5.63 | 3.13 | 1.82 | 5.20 | 2.95 | 2.01 |
| | | 30°C | 6.90 | 4.45 | 1.32 | 6.65 | 4.37 | 1.43 | 6.40 | 4.27 | 1.55 | 6.14 | 4.18 | 1.68 | 5.64 | 3.91 | 1.82 | 5.22 | 3.71 | 2.01 |
| | | 33°C | 6.92 | 5.22 | 1.32 | 6.68 | 5.13 | 1.43 | 6.43 | 5.02 | 1.55 | 6.18 | 4.91 | 1.69 | 5.69 | 4.60 | 1.83 | 5.27 | 4.37 | 2.01 |
| | | 36°C | 6.98 | 5.89 | 1.33 | 6.76 | 5.78 | 1.44 | 6.53 | 5.66 | 1.56 | 6.29 | 5.52 | 1.69 | 5.81 | 5.15 | 1.84 | 5.42 | 4.84 | 2.03 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SHC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▒ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from -10°C to 46°C without pressure trip.

## Heating Mode

| Indoor | Outdoor WB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -15 | | -10 | | -5 | | 0 | | 6 | | 10 | |
| DB°C | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 16 | 2.82 | 1.11 | 3.50 | 1.19 | 4.18 | 1.27 | 4.86 | 1.35 | 5.68 | 1.44 | 6.22 | 1.50 |
| 18 | 2.79 | 1.17 | 3.47 | 1.25 | 4.16 | 1.32 | 4.84 | 1.40 | 5.65 | 1.50 | 6.19 | 1.56 |
| 20 | 2.76 | 1.22 | 3.44 | 1.30 | 4.13 | 1.38 | 4.81 | 1.46 | 5.62 | 1.55 | 6.16 | 1.61 |
| 21 | 2.75 | 1.25 | 3.43 | 1.33 | 4.11 | 1.40 | 4.79 | 1.49 | 5.61 | 1.58 | 6.15 | 1.64 |
| 22 | 2.73 | 1.28 | 3.42 | 1.36 | 4.10 | 1.43 | 4.78 | 1.51 | 5.59 | 1.60 | 6.13 | 1.67 |
| 24 | 2.70 | 1.34 | 3.39 | 1.41 | 4.07 | 1.50 | 4.75 | 1.57 | 5.56 | 1.66 | 6.10 | 1.72 |

**Remark:**
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ▒ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from -10°C to 46°C without pressure trip.

## Model: FTXN60JXV1 - RXN60CXV1
## Cooling Mode

| AFR (CFM) | EWB | EDB | Outdoor temperature | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 19°C | | | 25°C | | | 30°C | | | 35°C | | | 40°C | | | 46°C | | |
| | | | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI | TC | SC | PI |
| 507 | 16°C | 21°C | 5.94 | 4.09 | 1.43 | 5.73 | 3.98 | 1.54 | 5.52 | 3.88 | 1.67 | 5.30 | 3.77 | 1.81 | 4.86 | 3.50 | 1.97 | 4.49 | 3.30 | 2.17 |
| | | 24°C | 5.95 | 4.90 | 1.43 | 5.74 | 4.79 | 1.55 | 5.52 | 4.68 | 1.67 | 5.30 | 4.56 | 1.81 | 4.87 | 4.26 | 1.97 | 4.51 | 4.02 | 2.17 |
| | | 27°C | 6.00 | 5.55 | 1.43 | 5.80 | 5.43 | 1.55 | 5.59 | 5.30 | 1.68 | 5.38 | 5.16 | 1.82 | 4.97 | 4.81 | 1.97 | 4.62 | 4.51 | 2.18 |
| | | 30°C | 6.18 | 6.18 | 1.44 | 6.00 | 6.00 | 1.56 | 5.82 | 5.82 | 1.69 | 5.63 | 5.63 | 1.83 | 5.22 | 5.22 | 1.99 | 4.89 | 4.89 | 2.20 |
| | 19°C | 24°C | 6.55 | 3.82 | 1.45 | 6.32 | 3.72 | 1.57 | 6.09 | 3.62 | 1.70 | 5.85 | 3.52 | 1.85 | 5.38 | 3.28 | 2.00 | 4.97 | 3.09 | 2.21 |
| | | 27°C | 6.56 | 4.37 | 1.45 | 6.33 | 4.27 | 1.57 | 6.09 | 4.17 | 1.70 | 5.85 | 4.07 | 1.85 | 5.38 | 3.81 | 2.00 | 4.98 | 3.61 | 2.21 |
| | | 30°C | 6.57 | 5.39 | 1.45 | 6.34 | 5.28 | 1.57 | 6.12 | 5.16 | 1.70 | 5.88 | 5.04 | 1.85 | 5.42 | 4.71 | 2.01 | 5.03 | 4.46 | 2.21 |
| | | 33°C | 6.64 | 6.64 | 1.46 | 6.43 | 6.43 | 1.58 | 6.22 | 6.22 | 1.71 | 6.01 | 6.01 | 1.86 | 5.56 | 5.56 | 2.02 | 5.20 | 5.20 | 2.22 |
| | 22°C | 27°C | 7.21 | 3.74 | 1.48 | 6.96 | 3.65 | 1.60 | 6.71 | 3.56 | 1.74 | 6.44 | 3.46 | 1.88 | 5.93 | 3.22 | 2.04 | 5.48 | 3.04 | 2.25 |
| | | 30°C | 7.21 | 4.56 | 1.48 | 6.96 | 4.46 | 1.60 | 6.71 | 4.36 | 1.74 | 6.44 | 4.25 | 1.88 | 5.93 | 3.98 | 2.04 | 5.49 | 3.78 | 2.25 |
| | | 33°C | 7.21 | 5.32 | 1.48 | 6.97 | 5.22 | 1.60 | 6.71 | 5.12 | 1.74 | 6.45 | 5.01 | 1.88 | 5.93 | 4.70 | 2.04 | 5.50 | 4.47 | 2.25 |
| | | 36°C | 7.24 | 6.03 | 1.48 | 7.00 | 5.91 | 1.60 | 6.76 | 5.79 | 1.74 | 6.51 | 5.66 | 1.89 | 6.00 | 5.31 | 2.05 | 5.58 | 5.04 | 2.26 |
| 585 | 16°C | 21°C | 6.18 | 4.27 | 1.44 | 5.96 | 4.16 | 1.56 | 5.73 | 4.05 | 1.69 | 5.50 | 3.93 | 1.83 | 5.04 | 3.66 | 1.98 | 4.65 | 3.45 | 2.19 |
| | | 24°C | 6.20 | 5.18 | 1.44 | 5.98 | 5.06 | 1.56 | 5.75 | 4.94 | 1.69 | 5.52 | 4.81 | 1.83 | 5.07 | 4.49 | 1.99 | 4.69 | 4.24 | 2.19 |
| | | 27°C | 6.27 | 5.88 | 1.45 | 6.06 | 5.74 | 1.56 | 5.85 | 5.60 | 1.69 | 5.64 | 5.43 | 1.84 | 5.21 | 5.04 | 2.00 | 4.85 | 4.72 | 2.20 |
| | | 30°C | 6.54 | 6.54 | 1.46 | 6.35 | 6.35 | 1.58 | 6.15 | 6.15 | 1.71 | 5.95 | 5.95 | 1.86 | 5.52 | 5.52 | 2.02 | 5.16 | 5.16 | 2.23 |
| | 19°C | 24°C | 6.81 | 4.04 | 1.46 | 6.57 | 3.93 | 1.59 | 6.32 | 3.83 | 1.72 | 6.07 | 3.73 | 1.86 | 5.57 | 3.47 | 2.02 | 5.15 | 3.27 | 2.23 |
| | | 27°C | 6.82 | 4.65 | 1.47 | 6.58 | 4.55 | 1.59 | 6.33 | 4.44 | 1.72 | 6.08 | 4.34 | 1.86 | 5.58 | 4.06 | 2.02 | 5.16 | 3.84 | 2.23 |
| | | 30°C | 6.85 | 5.74 | 1.47 | 6.62 | 5.61 | 1.59 | 6.38 | 5.49 | 1.72 | 6.13 | 5.35 | 1.87 | 5.65 | 5.00 | 2.03 | 5.24 | 4.73 | 2.23 |
| | | 33°C | 6.97 | 6.97 | 1.47 | 6.76 | 6.76 | 1.59 | 6.54 | 6.54 | 1.73 | 6.32 | 6.32 | 1.88 | 5.86 | 5.86 | 2.04 | 5.48 | 5.48 | 2.25 |
| | 22°C | 27°C | 7.48 | 3.95 | 1.49 | 7.22 | 3.86 | 1.62 | 6.95 | 3.76 | 1.75 | 6.67 | 3.66 | 1.90 | 6.13 | 3.41 | 2.06 | 5.67 | 3.22 | 2.27 |
| | | 30°C | 7.49 | 4.85 | 1.49 | 7.23 | 4.75 | 1.62 | 6.96 | 4.64 | 1.75 | 6.68 | 4.53 | 1.90 | 6.14 | 4.25 | 2.06 | 5.68 | 4.03 | 2.27 |
| | | 33°C | 7.50 | 5.68 | 1.49 | 7.24 | 5.57 | 1.62 | 6.98 | 5.46 | 1.75 | 6.70 | 5.34 | 1.90 | 6.17 | 5.01 | 2.06 | 5.72 | 4.76 | 2.27 |
| | | 36°C | 7.55 | 6.42 | 1.50 | 7.31 | 6.30 | 1.62 | 7.05 | 6.17 | 1.76 | 6.80 | 6.03 | 1.91 | 6.27 | 5.64 | 2.07 | 5.85 | 5.32 | 2.28 |
| 654 | 16°C | 21°C | 6.41 | 4.45 | 1.45 | 6.17 | 4.34 | 1.57 | 5.94 | 4.22 | 1.70 | 5.69 | 4.11 | 1.84 | 5.22 | 3.82 | 2.00 | 4.81 | 3.60 | 2.20 |
| | | 24°C | 6.44 | 5.41 | 1.45 | 6.21 | 5.28 | 1.57 | 5.98 | 5.15 | 1.70 | 5.73 | 5.02 | 1.85 | 5.27 | 4.68 | 2.00 | 4.86 | 4.41 | 2.21 |
| | | 27°C | 6.55 | 6.20 | 1.46 | 6.33 | 6.04 | 1.58 | 6.12 | 5.87 | 1.71 | 5.90 | 5.69 | 1.86 | 5.45 | 5.27 | 2.02 | 5.08 | 4.92 | 2.23 |
| | | 30°C | 6.87 | 6.87 | 1.47 | 6.67 | 6.67 | 1.59 | 6.47 | 6.47 | 1.73 | 6.26 | 6.26 | 1.88 | 5.79 | 5.79 | 2.04 | 5.41 | 5.41 | 2.25 |
| | 19°C | 24°C | 7.05 | 4.27 | 1.48 | 6.80 | 4.16 | 1.60 | 6.54 | 4.06 | 1.73 | 6.27 | 3.95 | 1.88 | 5.76 | 3.68 | 2.04 | 5.32 | 3.47 | 2.24 |
| | | 27°C | 7.08 | 4.94 | 1.48 | 6.82 | 4.83 | 1.60 | 6.56 | 4.71 | 1.73 | 6.30 | 4.60 | 1.88 | 5.78 | 4.30 | 2.04 | 5.35 | 4.07 | 2.25 |
| | | 30°C | 7.13 | 6.08 | 1.48 | 6.88 | 5.95 | 1.60 | 6.63 | 5.81 | 1.74 | 6.38 | 5.67 | 1.88 | 5.87 | 5.29 | 2.04 | 5.45 | 4.99 | 2.25 |
| | | 33°C | 7.29 | 7.29 | 1.49 | 7.08 | 7.08 | 1.61 | 6.86 | 6.86 | 1.75 | 6.63 | 6.63 | 1.90 | 6.14 | 6.14 | 2.06 | 5.75 | 5.75 | 2.28 |
| | 22°C | 27°C | 7.74 | 4.18 | 1.50 | 7.47 | 4.09 | 1.63 | 7.19 | 3.98 | 1.77 | 6.90 | 3.88 | 1.92 | 6.33 | 3.62 | 2.08 | 5.85 | 3.42 | 2.29 |
| | | 30°C | 7.76 | 5.15 | 1.51 | 7.48 | 5.05 | 1.63 | 7.20 | 4.94 | 1.77 | 6.91 | 4.83 | 1.92 | 6.35 | 4.52 | 2.08 | 5.87 | 4.29 | 2.29 |
| | | 33°C | 7.78 | 6.04 | 1.51 | 7.51 | 5.93 | 1.63 | 7.24 | 5.81 | 1.77 | 6.95 | 5.68 | 1.92 | 6.40 | 5.32 | 2.08 | 5.93 | 5.05 | 2.29 |
| | | 36°C | 7.85 | 6.81 | 1.51 | 7.61 | 6.69 | 1.64 | 7.34 | 6.54 | 1.78 | 7.08 | 6.38 | 1.93 | 6.54 | 5.95 | 2.09 | 6.10 | 5.60 | 2.31 |

**Remark:**
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SHC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from -10°C to 46°C without pressure trip.

## Heating Mode

| Indoor | Outdoor WB°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -15 | | -10 | | -5 | | 0 | | 6 | | 10 | |
| DB°C | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 16 | 3.21 | 1.21 | 3.98 | 1.29 | 4.76 | 1.37 | 5.54 | 1.46 | 6.47 | 1.56 | 7.08 | 1.63 |
| 18 | 3.18 | 1.26 | 3.95 | 1.35 | 4.73 | 1.43 | 5.51 | 1.52 | 6.43 | 1.62 | 7.05 | 1.69 |
| 20 | 3.14 | 1.32 | 3.92 | 1.41 | 4.70 | 1.49 | 5.47 | 1.58 | 6.40 | 1.68 | 7.02 | 1.75 |
| 21 | 3.13 | 1.35 | 3.91 | 1.44 | 4.68 | 1.52 | 5.45 | 1.61 | 6.39 | 1.71 | 7.01 | 1.78 |
| 22 | 3.11 | 1.38 | 3.90 | 1.47 | 4.67 | 1.55 | 5.44 | 1.64 | 6.37 | 1.74 | 6.98 | 1.81 |
| 24 | 3.08 | 1.45 | 3.86 | 1.53 | 4.63 | 1.62 | 5.41 | 1.70 | 6.33 | 1.80 | 6.95 | 1.87 |

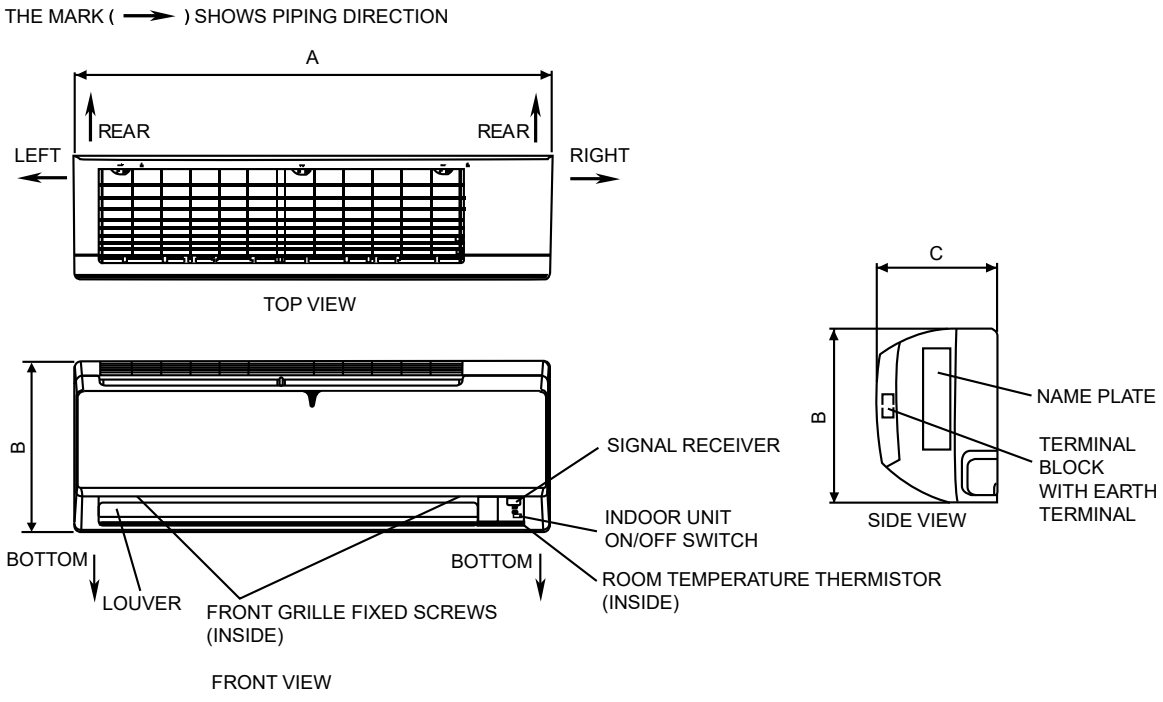
**Remark:**
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
PI: Power Input (kW)

**Notes:**
1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from -10°C to 46°C without pressure trip.

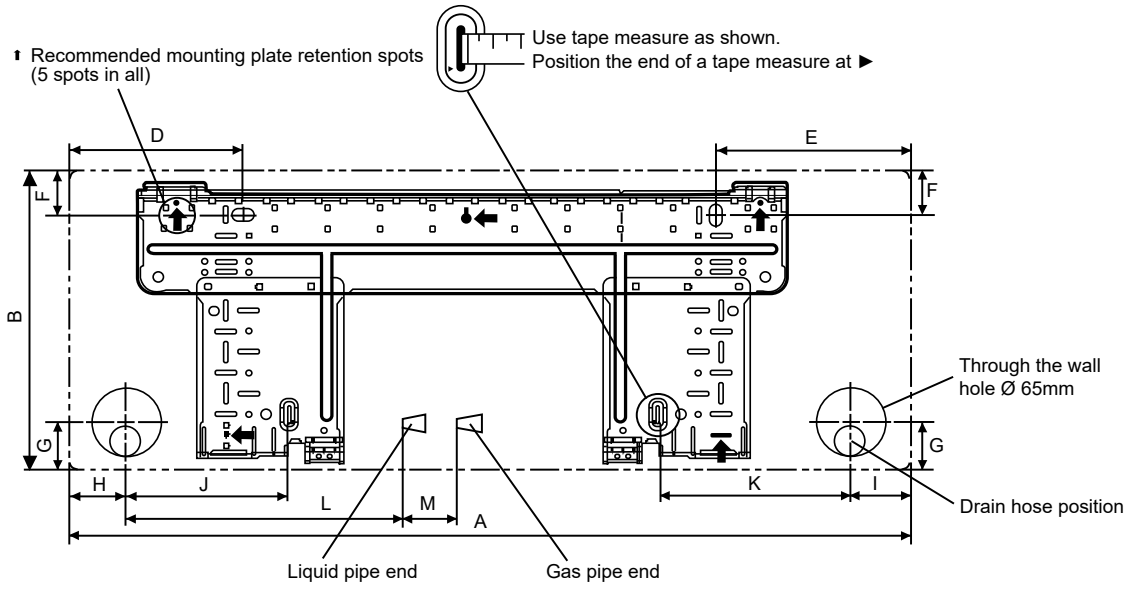
# Outline & Dimension

## Indoor Unit

### Model: FTK25/35/50/60JXV19, FTXN25/35/50/60JXV1



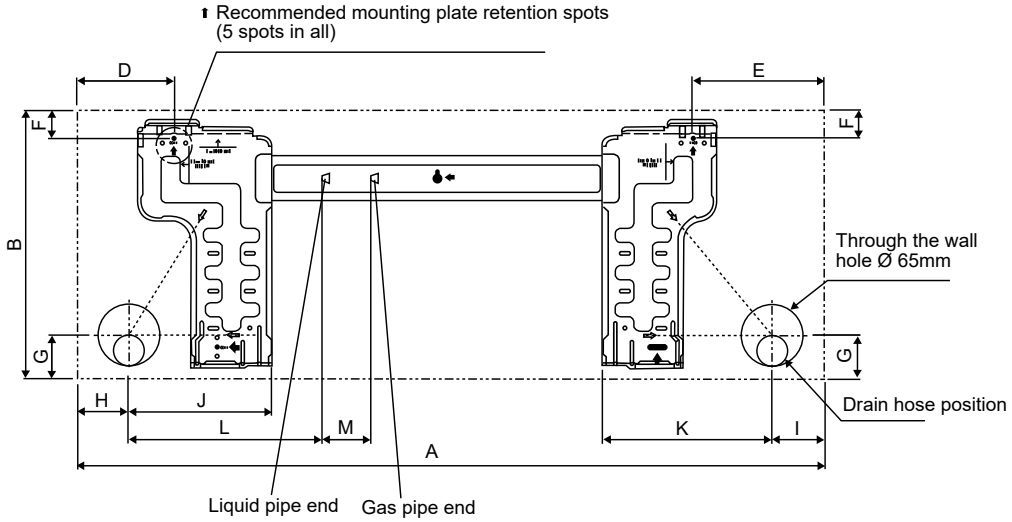

Note: Dimension in mm




| Model \ Dimension | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25/35** | 800 | 288 | 212 | 166 | 184 | 42 | 46 | 55 | 56 | 154 | 182 | 263 | 52 |

Note: Dimension in mm

**All dimensions are in mm**

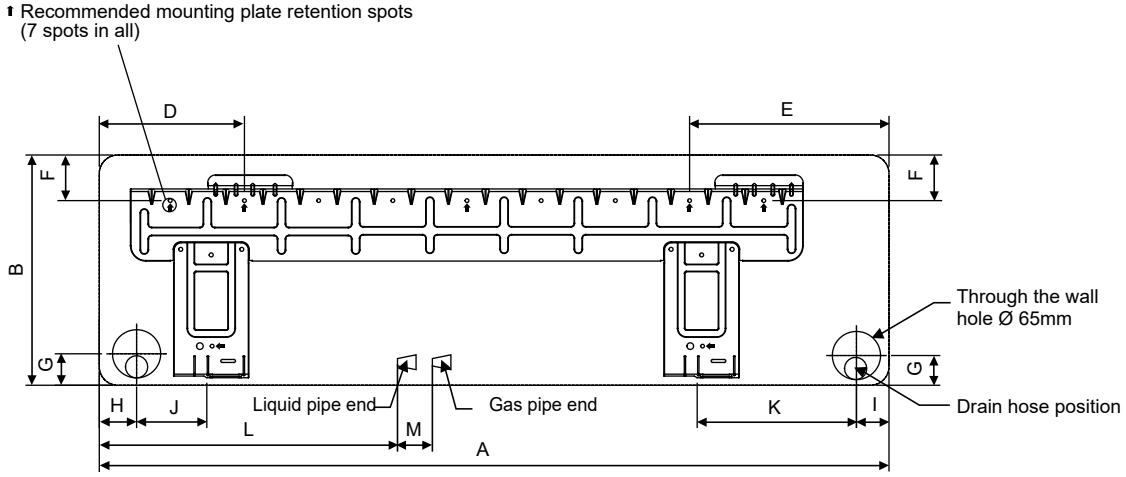



ALTERNATIVE INSTALLATION PLATE 25/35

| Dimension / Model | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25/35** | 800 | 288 | 212 | 104 | 141 | 30 | 46 | 55 | 56 | 153 | 181 | 207 | 52 |

Note: Dimension in mm

**All dimensions are in mm**




INSTALLATION PLATE 50/60

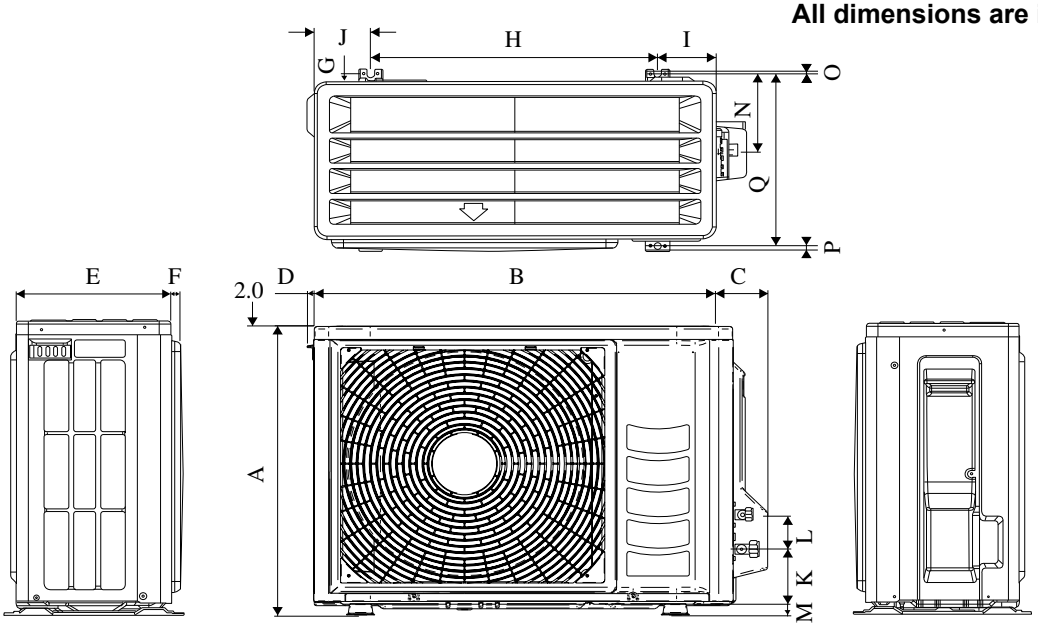
| Dimension / Model | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **50/60** | 1065 | 310 | 228 | 190 | 173 | 61 | 40 | 45 | 48 | 91 | 219 | 580 | 45 |

Note: Dimension in mm

## Outdoor Unit

### Model: RK25/35FXV19, RXN25/35FXV1

**All dimensions are in mm**

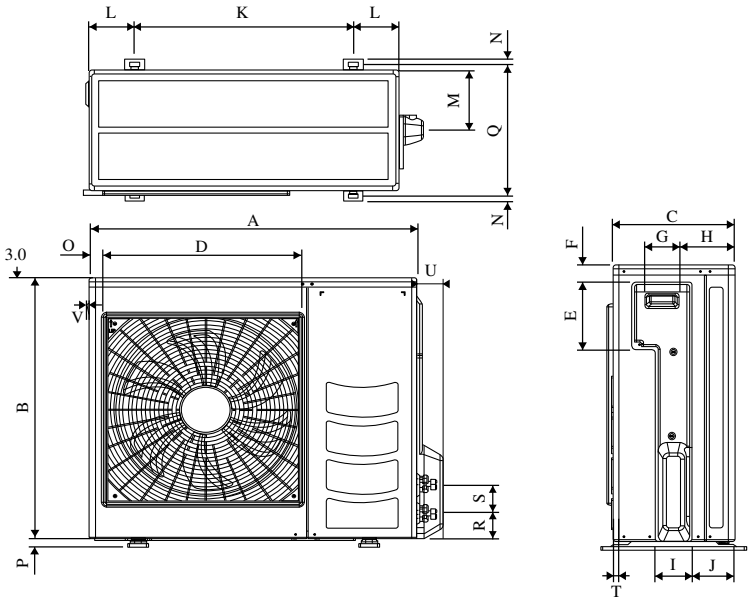



| Dimension / Model | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25/35 | 550 | 658 | 51 | 11 | 273 | 16 | 14 | 470 | 96 | 93 | 94 | 60 | 14 | 133 | 8 | 10 | 299 |

Note: Dimension in mm

### Model: RK50/60CXV19, RXN50/60CXV1

**All dimensions are in mm**




| Dimension / Model | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50/60 | 855 | 628 | 328 | 520 | 179 | 46 | 93 | 149 | 101 | 113 | 603 | 126 | 164 | 15 |

| Dimension / Model | O | P | Q | R | S | T | U | V |
|---|---|---|---|---|---|---|---|---|
| 50/60 | 34 | 23 | 362 | 73 | 75 | 8 | 67 | 7 |

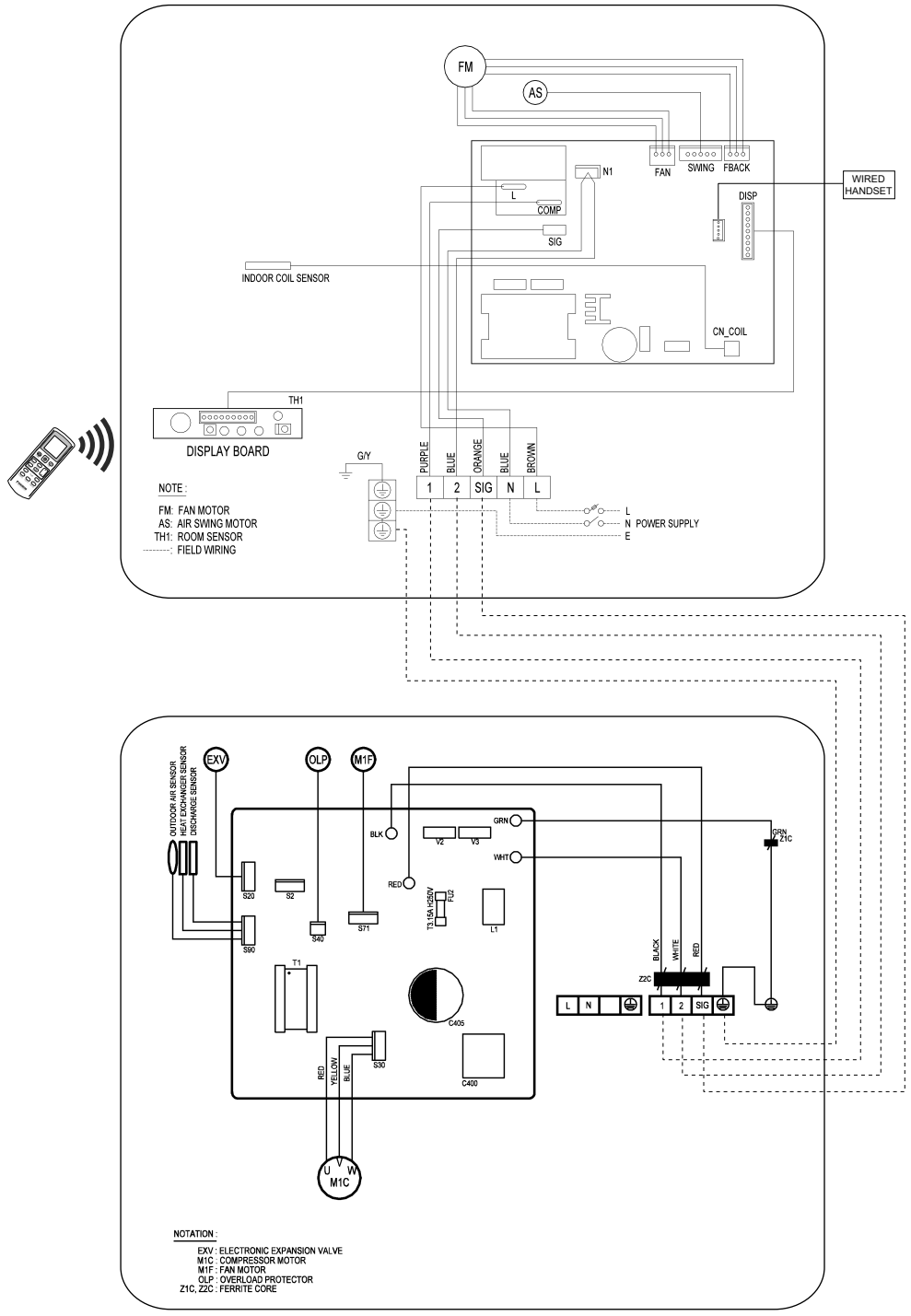
Note: Dimension in mm

# Wiring Diagram

## Cooling Only

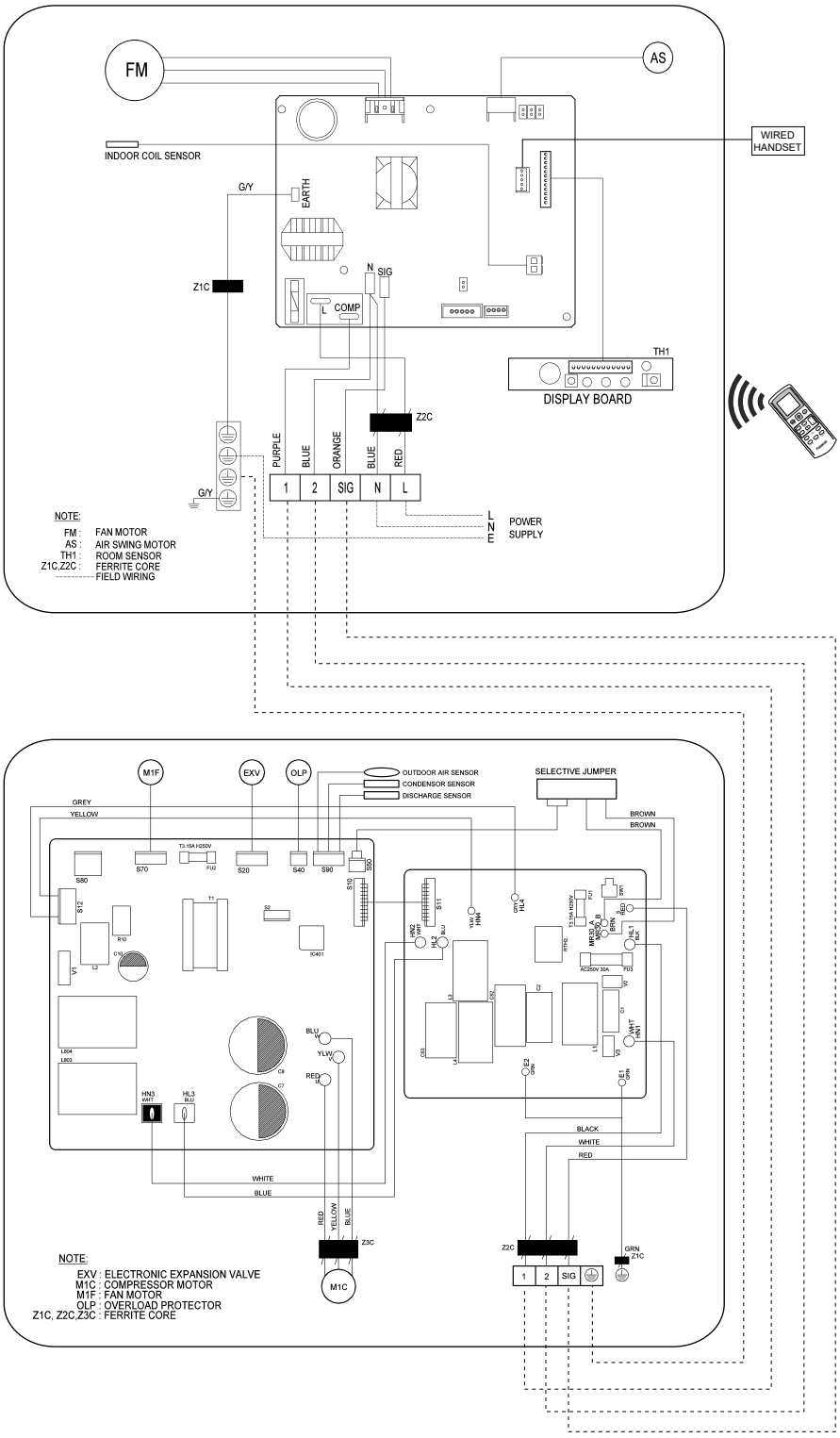
**Indoor Unit**
**Model: FTK25/35JXV19**

**Outdoor Unit**
**Model: RK25/35FXV19**



**Indoor Unit**
**Model: FTK50/60JXV19**

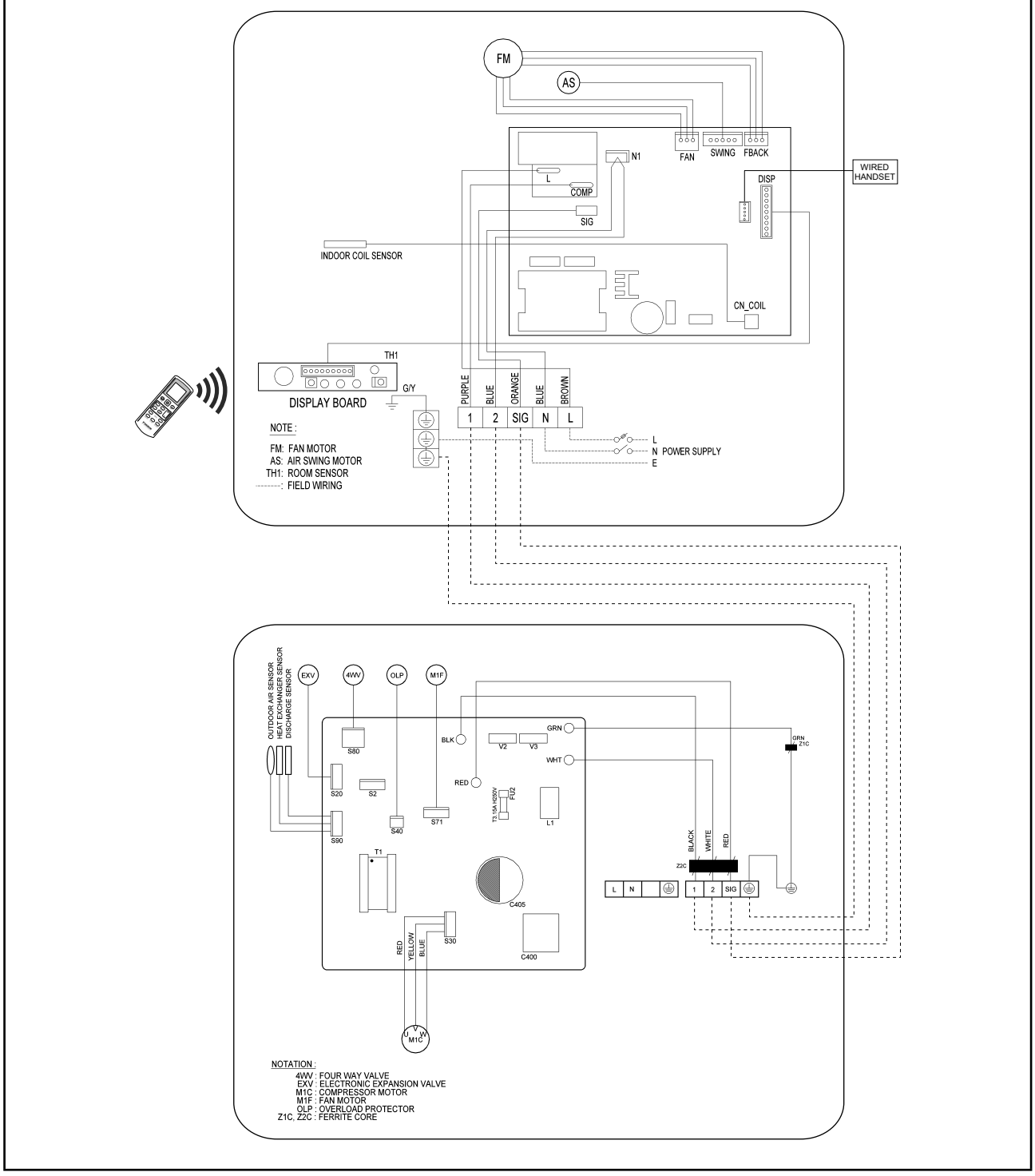
**Outdoor Unit**
**Model: RK50/60CXV19**



# Heatpump

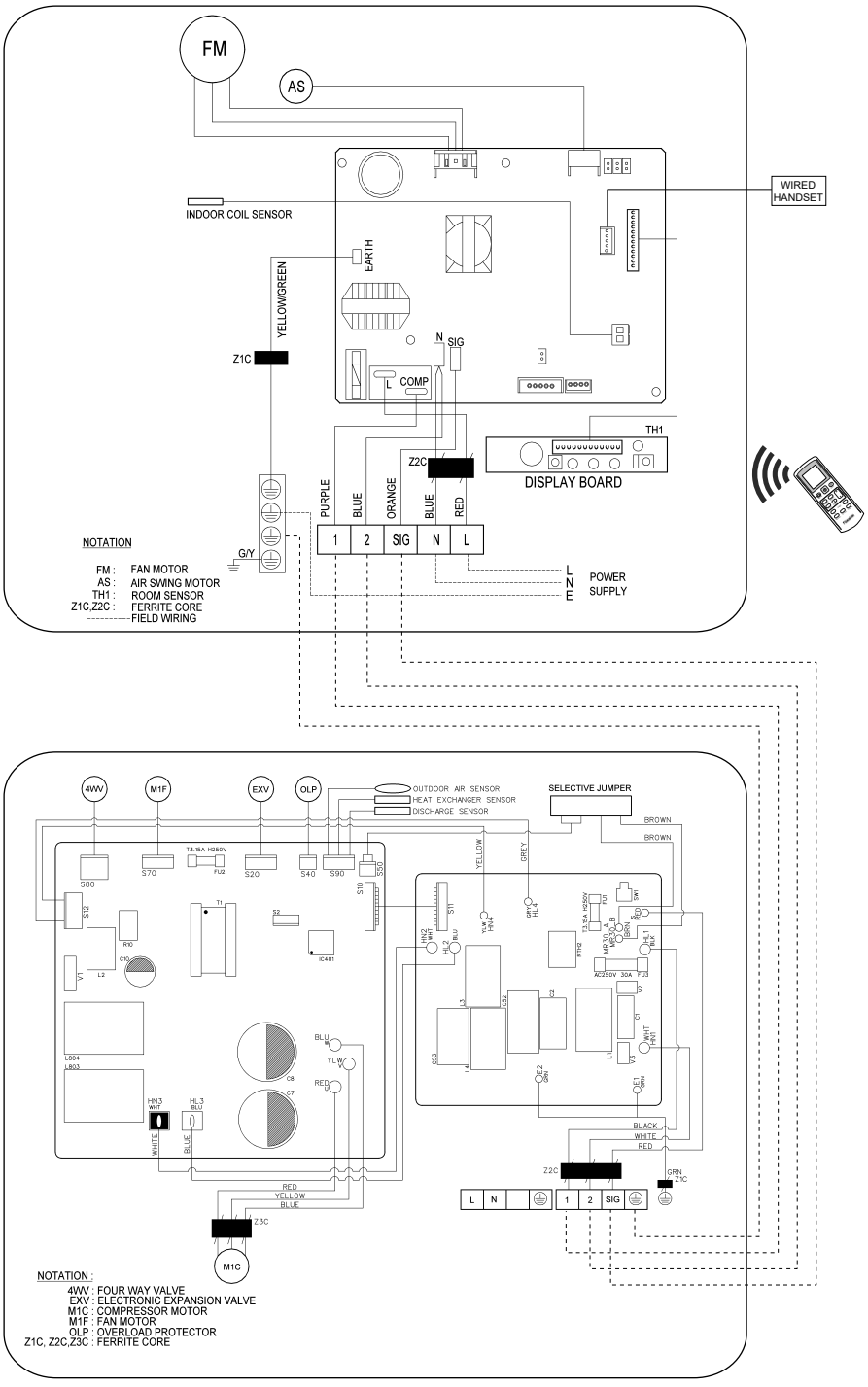
**Indoor Unit**
**Model: FTXN25/35JXV1**

**Outdoor Unit**
**Model: RXN25/35FXV1**



**Indoor Unit**
**Model: FTXN50/60JXV1**

**Outdoor Unit**
**Model: RXN50/60CXV1**



# Service & Maintenance

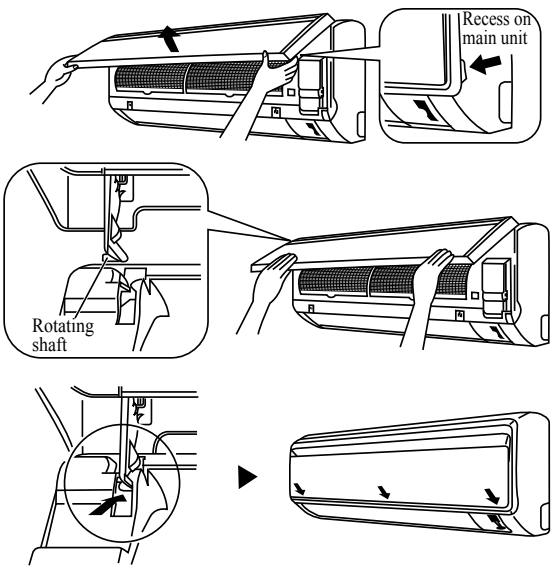
**⚠ Warning**

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

| Components | Maintenance Procedures | Period |
|---|---|---|
| Air Filter (Indoor Unit) | 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40˚C) with a neutral cleaning detergent.<br>2. Rinse the filter well and dry before placing it back onto the unit.<br>3. Note: Never use gasoline, volatile substances or chemicals to clean the filter. | At least once every 2 weeks.<br>More frequently if necessary. |
| Indoor Unit | 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40˚C) and a neutral detergent solution.<br>2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit. | At least once every 2 weeks.<br>More frequently if necessary. |
| Condense Drain Pan & Pipe | 1. Check the cleanliness and clean it if necessary.<br>2. Check the condensate water flow. | Every 3 months. |
| Indoor Fan | Check if there is any abnormal noise. | If necessary. |
| Indoor / Outdoor Coil | 1. Check and remove the dirt between the fins.<br>2. Check and remove any obstacles which hinder air flow through the indoor or outdoor. | Every month. |
| Power Supply | 1. Check the running current and voltage for indoor and outdoor unit.<br>2. Check the electrical wiring and tighten the wire onto the terminal block if necessary. | Every 2 months.<br>Every year. |
| Compressor | No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting. | Every 6 months. |

**Indoor Models**

1. Open the front panel
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.
2. Remove the front panel
   - While lifting the front panel further, slide it to the right and pull it to the front side. The left rotating shaft is detached. Slide the right rotating shaft to the left and pull it to the front side to remove it.
3. Attach the front panel
   - Align the right and left rotating shafts of the front panel with the grooves and push them all the way in.
   - Gently close the front panel. (Push both ends and the center on the front panel.)




**⚠ Caution**

- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

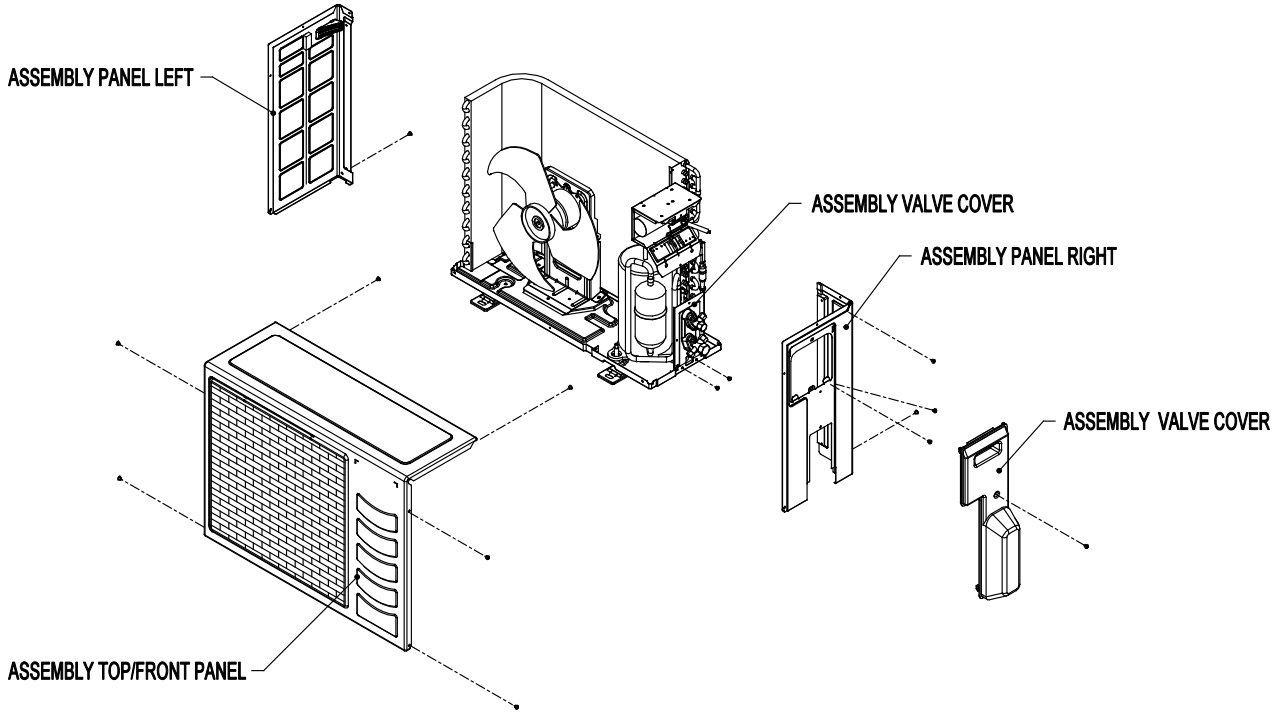
## Pre Start Up Maintenance

(After Extended Shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensates drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

## Outdoor Models

The design of the RK/RXN outdoor series allows servicing to be carried out easily. The removal of the top, front and side panels makes almost every part accessible.




Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once every 3 months. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

**⚠ Caution**

- Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperature and pressure.
- It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

# Troubleshooting

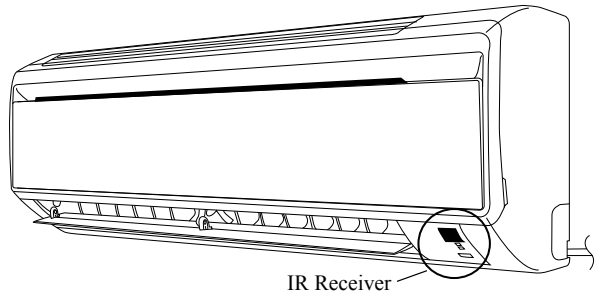
## Indicator Lights

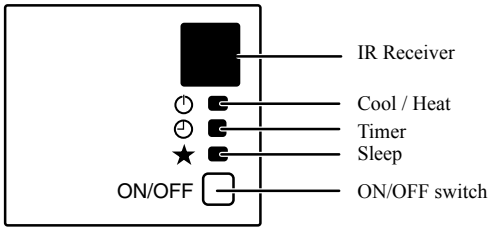
**IR Signal Receiver**
When an infrared remote control operating signal has been transmitted, the signal receiver on the indoor unit will respond as below to confirm acceptance of the signal transmission.

| | |
|---|---|
| ON to OFF | 1 Long Beep |
| OFF to ON<br>Pump down/Cool force on | 2 Short Beeps |
| Others | 1 Short Beep |

## Cooling Unit / Heatpump Unit

The table below shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions. The LED lights are located at the middle of the air conditioner unit.
The heatpump units are equipped with an “auto” mode sensor whereby it will provide reasonable room temperature by switching automatically to either “cool” or “heat” mode according to the temperature set by the user.



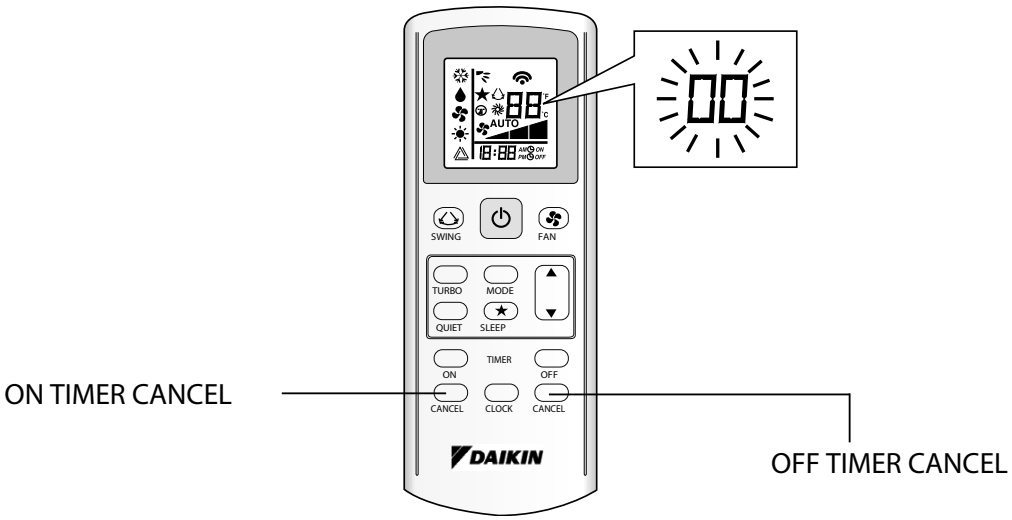



## LED Lights Diagnostic Table

| SLEEP (RED) | COOL/HEAT (GREEN/RED) | TIMER (ORANGE) | Operation / Fault Indication |
|---|---|---|---|
| | ○ Green | | Cooling mode |
| | ○ Red | | Heating mode |
| | ○ Red | | Auto mode in heating operation |
| | ○ Green | | Auto mode in cooling operation |
| | ○ | ○ | Time Off (when unit is on) |
| ○ | ○ | | Sleep mode on |
| | ○ Green | | Fan mode on |
| | ○ Green | | Dry mode on |
| | ◑ Red | | Defrost operation |
| | ◑ Green | | Error indication |

○ ON ◑ Blinking

**Error Code Diagnosis by GS01**




## Diagnosis Step

1. Hold down ON TIMER CANCEL button or OFF TIMER CANCEL button for 5 seconds, a " " indication flashes on the temperature display section.
2. Press TIMER CANCEL repeatedly until indoor buzzer produces a long beep. This indicates the error code, refers to Error Codes table and is displayed on the temperature display section.
3. A short beep or two consecutive beeps indicate non-corresponding error codes.
4. To cancel the error code display, hold down ON TIMER CANCEL button or OFF TIMER CANCEL button for 5 seconds. Alternatively, the code display will cancel itself if the button is not pressed for 1 minute.

## Error Code Diagnosis by Unit Last State Memory

1. Remove battery from remote controller.
2. Replace battery again into remote controller.
3. Press Mode & ON/OFF buttons together.
4. Press Mode button to 5:00.
5. Press ON/OFF once.
6. Repeat the fault diagnosis steps by wireless handset GS01.

## Troubleshooting Guidelines

| Error Codes | Error Description | Action |
|---|---|---|
| 0 | Normal | No action. |
| U0 | Insufficient gas | 1. Check sensor connection. |
| | | 2. Check stop valve. |
| | | 3. Check for gas leak. |
| | | 4. Check the EXV. |
| | | 5. Check H8. |
| U2 | DC voltage out of range | 1. Check the supply voltage. |
| | | 2. Check the outdoor fan by rotating with hand. |
| | | 3. Restart the system. |
| | | 4. Check power supply waveform. |
| U4 | Communication error | 1. Check the indoor unit - outdoor unit connection wires. |
| | | 2. Check the voltage of the signal terminal. |
| | | 3. Check the indoor fan by rotating with hand. |
| | | 4. Check the power supply waveform. |
| UA | Installation error | 1. Check the indoor and outdoor unit model name. |
| | | 2. Check the part code on the indoor and outdoor PCB. |
| A1 | Indoor PCB error | 1. Check connector connection. |
| | | 2. Replace indoor PCB. |
| A5 | Antifreeze | 1. Check the air passage. |
| | | 2. Check the intake air filter. |
| | | 3. Check dust accumulation on indoor coil. |
| | | 4. Check wiring and piping. |
| | | 5. Check the EXV. |
| | | 6. Check indoor coil sensor resistance value. |
| | | 7. Check refrigerant level. |
| | | 8. Check room sensor resistance value. |
| A6 | Indoor fan motor abnormal | 1. Check the indoor fan by rotating with hand. |
| | | 2. Replace indoor fan motor if not rotating smoothly. |
| | | 3. Check fan motor voltage. |
| | | 4. Replace indoor PCB if not at the rated voltage. |
| | | 5. Check fan capacitor’s conductivity (AC Motor). |
| | | 6. Replace fan capacitor if there’s conductivity. |
| C4 | Indoor heat exchanger thermistor short/open | 1. Check the connector connection.<br>2. Check the sensor resistance value. |
| C9 | Indoor room thermistor short/open | |
| E1 | Outdoor PCB error | 1. Restart the system. |
| | | 2. Replace outdoor PCB. |
| | | 3. Check to see that the unit is grounded. |
| | | 4. Check power supply waveform. |
| E5 | Compressor motor lock/ overload | 1. Check connection on discharge pipe sensor. |
| | | 2. Check discharge pipe sensor resistance value. |
| | | 3. Check the EXV. |
| | | 4. Check the refrigerant line on blockage or shortage. |

| Error Codes | Error Description | Action |
|---|---|---|
| E6 | Compressor lock/start-up error | 1. Check with inverter checker. |
| | | 2. Check the EXV. |
| E7 | Outdoor DC fan motor lock | 1. Check the fan motor connection. |
| | | 2. Check if foreign matters exist around or in the fan. |
| E8 | Ac input over current | 1. Measure the input current. |
| | | 2. Check the main circuit electrolytic capacitor. |
| | | 3. Check with inverter checker. |
| | | 4. Check discharge pressure. |
| | | 5. Check the installation condition. |
| EA | 4-way valve error | 1. Check 4WV coil connection. |
| | | 2. Check the continuity of the 4WV coil and harness. |
| | | 3. Check the 4WV switching output. |
| | | 4. Check sensor connection. |
| | | 5. Check sensor resistance value. |
| | | 6. Check the refrigerant line on blockage or shortage. |
| F3 | Discharge pipe overheat | 1. Check the discharge pipe sensor. |
| | | 2. Check the EXV. |
| | | 3. Check the refrigerant line on blockage or shortage. |
| F6 | Heat exchanger overheat | 1. Check the installation space. |
| | | 2. Check the outdoor fan. |
| | | 3. Check the EXV. |
| | | 4. Check the coil sensor. |
| H0 | Compressor sensor system abnormality | 1. Check the reactor connection. |
| | | 2. Check the compressor connection. |
| | | 3. Measure the resistance value between the reactor terminals. |
| | | 4. Measure the resistance value between the compressor terminals. |
| H6 | Position sensor abnormality | 1. Check for short circuit. |
| | | 2. Check the electrolytic capacitor voltage. |
| | | 3. Check compressor harness wire. |
| | | 4. Check with inverter checker. |
| H8 | AC current sensor error | 1. Restart the system. |
| | | 2. Check capacitor voltage. |
| | | 3. Measure the rectifier input voltage. |
| | | 4. Check compressor harness wire. |
| | | 5. Check with inverter checker. |
| H9 | Outdoor air thermistor short/open | 1. Check the sensor connection. |
| | | 2. Check the sensor resistance value. |
| J3 | Compressor discharge pipe thermistor short/open/ misplaced | 1. Check the sensor connection. |
| | | 2. Check the sensor resistance value. |
| | | 3. Check indoor coil sensor resistance value. |

| Error | Codes Error Description | Action |
|---|---|---|
| J6 | Outdoor heat exchanger | Same as H9. |
| L3 | Electrical box temperature rise | 1. Restart the system. |
| | | 2. Check sensor resistance value. |
| | | 3. Check heat sink temperature and conditions. |
| | | 4. Check outdoor fan. |
| | | 5. Check the installation condition. |
| L4 | Heat sink overheat | 1. Restart the system. |
| | | 2. Check the silicon grease condition on heat sink. |
| | | 3. Check sensor resistance value. |
| | | 4. Check heat sink temperature and conditions. |
| | | 5. Check outdoor fan. |
| | | 6. Check the installation condition. |
| L5 | IPM error/IGBT error | 1. Check stop valve. |
| | | 2. Check with inverter checker. |
| | | 3. Check the power transistor and supply voltage. |
| | | 4. Check the compressor phase. |
| | | 5. Check the discharge pressure. |
| | | 6. Check the installation condition. |
| P4 | Heat sink thermistor short/ open | Same as H9. |