

Set Free VRF Systems

| | Mini 2-pipe | Sidewflow 2-pipe | Modular 2 or 3-pipe | |
|--|-----------------------|-----------------------|------------------------------------|--------------------------------------|
| | RAS 4 ~ 6FS(V)N(Y)2E | RAS 8 ~ 12FSNM | Std - Efficiency RAS 8 ~ 54FSXN | Hi-Efficiency RAS 5 ~ 36FSXNH-(P) |
| Nominal Cooling Capacity (kW) | 11.2 ~ 15.5 | 22.4 ~ 33.5 | 22.4 ~ 150.0 | 14.0 ~ 100.0 |
| Nominal Heating Capacity (kW) | 12.5 ~ 18.0 | 25.0 ~ 37.5 | 25.0 ~ 165.0 | 16.0 ~ 112.0 |
| Min - Max Indoor Units ⁽²⁾ | 1 - 12 | 1 - 10 | 1 - 64 | 1 - 59 |
| Connected Capacity (Min - Max) | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽¹⁾ | 4.12 / 4.17 | 3.56 / 4.24 | 3.85 / 4.17 | 4.70 / 4.73 |
| Energy Class (Cool/Heat) | A / A | A / A | A / A | A / A |
| Refrigerant / GWP | R410A / 1975 | R410A / 1975 | R410A / 1975 | R410A / 1975 |
| Operating Range (Cooling) | -5°C / +46°C | -5°C / +46°C | -5°C / +46°C | -5°C / +46°C |
| Operating Range (Heating) | -20(wb)°C / +15(wb)°C | -20(wb)°C / +15(wb)°C | -20(wb)°C / +15(wb)°C | -15(wb)°C / +15(wb)°C |
| Remote Controller Type | Infra Red or Wired | Infra Red or Wired | Infra Red or Wired | Infra Red or Wired |

⁽¹⁾ Selected Models

⁽²⁾ Maximum indoor unit quantity dependant on Outdoor Capacity

Did you know?

Cold Draft Prevention is standard across the Set Free VRF range





Features and Benefits

FS(V)(Y)N2E Mini 2-pipe

RAS-FSVN2E and RAS-FSNY2E

- Capacities from 11.2kW to 18.0kW
- Compact design
- Connect up to 9 indoors per outdoor unit, minimising pipework required, with individual control
- New DC Inverter scroll compressor
- Single phase
- Low sound pressure of 42dB(A)
- High energy efficiency.

FSNM Sideflow 2-pipe

RAS-FSNM

- Capacities from 22.4kW to 37.5kW
- Compact design with side flow discharge
- Connect up to 10 indoors per outdoor unit, minimising pipework required, with individual control
- Connection ratios between 50% and 130% in relation to outdoor capacity
- Three phase
- Low sound pressure of 42dB(A)
- High energy efficiency.

FSXN Modular 2 or 3-pipe

RAS-FSXN

- Capacities from 22.4kW to 165.0kW
- Lightweight and modular 2-pipe heat pump or 3-pipe heat recovery from a single unit to adapt to customer requirements (requires CH Box)
- Low noise – select from 3 settings with up to 8dB noise reduction.

FSXNH Modular High efficiency 2 or 3-pipe

RAS-FSXNH

- Capacities from 14.0kW to 100.0kW'
- Market-leading energy efficiency
- Japanese Energy Efficiency and Conservation Award 2013 winner
- Lightweight and modular 2-pipe heat pump 3-pipe heat recovery from a single unit to adapt to customer requirements (requires CH Box)
- Smallest capacity 3-pipe heat recovery unit on the market
- Piping lengths up to 1000m and improved height difference
- Connection ratios up to 150% in relation to outdoor capacity.



Compatible with heat recovery modules, active heat exchangers, and air curtains.

Compatible with H-LINK II and CS Net Web.

Optional integration with all leading BMS protocols.



RAS-FS(V)(Y)N2E

Mini 2-pipe

| Outdoor Unit | | RAS-4FSVN2E | RAS-4FSNY2E | RAS-5FSVN2E | RAS-5FSNY2E | RAS-6FSVN2E | RAS-6FSNY2E |
|---|-------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Power supply (1Ø/3Ø) | | 230V / 1Ph / 50Hz | 400V / 3Ph / 50Hz | 230V / 1Ph / 50Hz | 400V / 3Ph / 50Hz | 230V / 1Ph / 50Hz | 400V / 3Ph / 50Hz |
| Nominal Cooling Capacity (min - max) | kW | 11.2 (5.6 - 11.2) | 11.2 (5.6 - 11.2) | 14.0 (7.0 - 14.0) | 14.0 (7.0 - 14.0) | 15.5 (7.8 - 15.5) | 15.5 (7.8 - 15.5) |
| Nominal Heating Capacity (min - max) | kW | 12.5 (6.3 - 12.5) | 12.5 (6.3 - 12.5) | 16.0 (8.0 - 16.0) | 16.0 (8.0 - 16.0) | 18.0 (9.0 - 18.0) | 18.0 (9.0 - 18.0) |
| UK Cooling Capacity | kW | 9.9 (4.9 ~ 9.9) | 9.9 (4.9 ~ 9.9) | 12.5 (6.2 ~ 12.5) | 12.5 (6.2 ~ 12.5) | 13.6 (6.8 ~ 13.6) | 13.6 (6.8 ~ 13.6) |
| Minimum - Maximum Indoor Units ⁽¹⁾ | | 1 - 8 | 1 - 8 | 1 - 10 | 1 - 10 | 1 - 12 | 1 - 12 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 4.07 / 4.13 | 4.12 / 4.17 | 3.61 / 3.81 | 3.65 / 3.85 | 3.32 / 3.67 | 3.35 / 3.71 |
| Energy Class (Cool/Heat) | | A / A | A / A | A / A | A / A | A / A | A / A |
| Noise level cooling (sound pressure) (night mode) | dB(A) | 49 (45) | 49 (45) | 51 (47) | 51 (47) | 51 (48) | 51 (48) |
| Noise level heating (sound pressure) | dB(A) | 51 | 51 | 53 | 53 | 53 | 53 |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc | tbc | tbc |
| Air flow (Cooling / Heating) | m ³ /h | 5400 | 5400 | 5400 | 5400 | 6000 | 6000 |
| Dimensions (H x W x D) | mm | 1380x950x370 | 1380x950x370 | 1380x950x370 | 1380x950x370 | 1380x950x370 | 1380x950x370 |
| Weight | kg | 100 | 102 | 100 | 102 | 100 | 102 |
| Piping diameter (Liquid / Gas) | Inch | 3/8 / 5/8 | 3/8 / 5/8 | 3/8 / 5/8 | 3/8 / 5/8 | 3/8 / 5/8 | 3/8 / 5/8 |
| | mm | 9.53 / 15.88 | 9.53 / 15.88 | 9.53 / 15.88 | 9.53 / 15.88 | 9.53 / 15.88 | 9.53 / 15.88 |
| Total Piping Length / Height Difference | m | 125 / 30 | 125 / 30 | 135 / 30 | 135 / 30 | 135 / 30 | 135 / 30 |
| Max Piping Length (outdoor to indoor) | m | 75 | 75 | 75 | 75 | 75 | 75 |
| Current Quantity of Refrigerant | kg | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 32 | 16 | 32 | 16 | 32 | 16 |
| Starting current | A | <10 | <10 | <10 | <10 | <10 | <10 |
| Running current (cooling / heating) | A | 12.2 / 13.4 | 4.1 / 4.6 | 17.2 / 18.6 | 5.8 / 6.3 | 20.7 / 21.7 | 7.0 / 7.4 |
| Working Range (cooling / heating) | °C | -5°C~46(db)°C / -20°C~15(wb)°C | | | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| | | | | | | | |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

Did you know?

Our Set Free VRF can connect to any indoor units from our System Free range for ultimate flexibility



RAS FSNM

SYSTEM
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Set Free VRF Systems



Sideflow 2-pipe

| Outdoor Unit | | RAS 8FSNM | RAS 10FSNM | RAS 12FSNM |
|---|-------------------|---------------------------------|-------------------|-------------------|
| Power supply | | 415V / 3Ph / 50Hz | 415V / 3Ph / 50Hz | 415V / 3Ph / 50Hz |
| Nominal Cooling Capacity | kW | 22.4 | 28.0 | 33.5 |
| Nominal Heating Capacity | kW | 25.0 | 31.5 | 37.5 |
| UK Cooling Capacity | kW | 20.8 | 26.0 | 31.2 |
| Minimum - Maximum Indoor Units ⁽¹⁾ | | 1 - 10 | 1 - 10 | 1 - 10 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 3.56 / 4.24 | 3.37 / 4.04 | 3.13 / 3.79 |
| Energy Class (Cool/Heat) | | A / A | A / A | B / A |
| Noise level cooling (sound pressure) (night mode) | dB(A) | 53 (tbc) | 56 (tbc) | 59 (tbc) |
| Noise level heating (sound pressure) | dB(A) | 55 | 58 | 61 |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc |
| Air flow (Cooling / Heating) | m ³ /h | 7260 | 9000 | 9780 |
| Dimensions (H x W x D) | mm | 1650x1100x390 | 1650x1100x390 | 1650x1100x390 |
| Weight | kg | 170 | 170 | 173 |
| Piping diameter (Liquid / Gas) | Inch | 3/8 / 3/4 | 1/2 / 7/8 | 1/2 / 1 1/8 |
| | mm | 9.52 / 19.05 | 12.70 / 22.20 | 12.70 / 28.60 |
| Total Piping Length / Height Difference | m | 250 / 40 | 250 / 40 | 250 / 40 |
| Max Piping Length (outdoor to indoor) | m | 100 | 100 | 100 |
| Current Quantity of Refrigerant | kg | 5.0 | 5.5 | 6.5 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate |
| Recommended fuse size | A | 16 | 20 | 25 |
| Starting current (1Ø/3Ø) | A | 8 | 8 | 8 |
| Running current (cooling / heating) | A | 9.4 / 8.8 | 12.4 / 11.7 | 15.8 / 14.7 |
| Working Range (cooling / heating) | °C | -5°C~46(db)°C / -20°C~-15(wb)°C | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll |
| | | | | |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue

⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only

⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102



RAS FSXN

Modular 2 or 3-pipe

| Outdoor Unit | | RAS 8FSXN | RAS 10FSXN | RAS 12FSXN | RAS 14FSXN | RAS 16FSXN | RAS 18FSXN |
|--|-------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Outdoor Combination | | - | - | - | - | - | - |
| Power supply | | 400V / 3Ph / 50Hz | | | | | |
| Nominal Cooling Capacity | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 |
| Nominal Heating Capacity | kW | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.0 |
| UK Cooling Capacity | kW | 19.3 | 24.1 | 28.8 | 34.4 | 38.7 | 43.0 |
| Maximum Indoor Units ⁽¹⁾ | | 13 | 16 | 19 | 23 | 26 | 26 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 3.85 / 4.17 | 3.79 / 4.11 | 3.41 / 3.6 | 3.25 / 3.89 | 3.23 / 3.9 | 3.37 / 3.81 |
| Energy Class (Cool/Heat) | | A / A | A / A | A / A | A / A | A / A | A / A |
| Noise level (sound pressure) (night mode) | dB(A) | 58 (53) | 58 (53) | 60 (55) | 62 (57) | 62 (57) | 63 (58) |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc | tbc | tbc |
| Air flow (Cooling / Heating) | m ³ /h | 9300 | 10200 | 10500 | 11700 | 11700 | 11700 |
| Dimensions (H x W x D) | mm | 1720x950x765 | 1720x950x765 | 1720x950x765 | 1720x1210x765 | 1720x1210x765 | 1720x1210x765 |
| Weight | kg | 210 | 210 | 210 | 295 | 295 | 315 |
| Piping diameter (Liquid / Gas x 2) | Inch | 3/8 / (3/4/5/8) | 3/8 / (7/8/3/4) | 1/2 / (1 1/8/7/8) | 1/2 / (1 1/8/7/8) | 1/2 / (1 1/8/7/8) | 5/8 / (1 1/8/7/8) |
| | mm | 9.52 / (19.05/15.88) | 9.53 / (22.20/19.05) | 12.70 / (28.60/22.2) | 12.70 / (28.60/22.2) | 12.70 / (28.60/22.2) | 15.88 / (28.60/22.2) |
| Total Piping Length / Height Difference | m | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| Max Piping Length (outdoor to indoor) | m | 165 | 165 | 165 | 165 | 165 | 165 |
| Current Quantity of Refrigerant | kg | 6.5 | 6.5 | 7.0 | 9.0 | 9.0 | 10.5 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 16 | 20 | 25 | 32 | 32 | 32 |
| Starting current | A | 8 | 8 | 8 | 95 | 95 | 113 |
| Running current (cooling / heating) | A | 9.3 / 9.6 | 11.9 / 12.3 | 15.7 / 16.7 | 20.2 / 18.8 | 22.6 / 20.8 | 24.1 / 23.8 |
| Working Range (cooling / heating) | °C | -5°C~43(db)°C / -20°C~15(wb)°C | | | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue

⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only

⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

Did you know?

Our Set Free VRF can connect to any indoor units from our System Free range for ultimate flexibility


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Set Free VRF Systems



RAS FSXN

Modular 2 or 3-pipe

| Outdoor Unit | | RAS 20FSXN | RAS 22FSXN | RAS 24FSXN | RAS 26FSXN | RAS 28FSXN | RAS 30FSXN |
|--|-------------------|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Outdoor Combination | | 8 + 12 | 8 + 14 | 10 + 14 | 12 + 14 | 14 + 14 | 14 + 16 |
| Power supply | | 400V / 3Ph / 50Hz | | | | | |
| Nominal Cooling Capacity | kW | 56.0 | 61.5 | 69.0 | 73.0 | 80.0 | 85.0 |
| Nominal Heating Capacity | kW | 63.0 | 69.0 | 77.5 | 82.5 | 90.0 | 95.0 |
| UK Cooling Capacity | kW | 48.2 | 52.9 | 59.3 | 62.8 | 68.8 | 73.1 |
| Maximum Indoor Units ⁽¹⁾ | | 33 | 36 | 40 | 43 | 47 | 50 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 3.58 / 3.81 | 3.62 / 4.04 | 3.37 / 3.89 | 3.38 / 3.75 | 3.25 / 3.89 | 3.24 / 3.90 |
| Energy Class (Cool/Heat) | | A / A | A / A | A / A | A / A | A / A | A / A |
| Noise level (sound pressure) (night mode) | dB(A) | 62 (57) | 63 (58) | 63 (58) | 64 (59) | 65 (60) | 65 (60) |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc | tbc | tbc |
| Air flow (Cooling / Heating) | m ³ /h | 9300 + 10500 | 9300 + 11700 | 10200 + 11700 | 10500 + 11700 | 11700 + 11700 | 11700 + 11700 |
| Dimensions (H x W x D) | mm | 1720x1920x765 | 1720x2180x765 | 1720x2180x765 | 1720x2180x765 | 1720x2440x765 | 1720x2440x765 |
| Weight | kg | 210 + 210 | 210 + 295 | 210 + 295 | 210 + 295 | 295 + 295 | 295 + 295 |
| Piping diameter (Liquid / Gas x 2) | Inch | 5/8 / (1 1/8/7/8) | 5/8 / (1 1/8/11/8) | 5/8 / (1 1/8/11/8) | 3/4 / (1 1/4/11/8) | 3/4 / (1 1/4/11/8) | 3/4 / (1 1/4/11/8) |
| | mm | 15.88 / (28.60/22.2) | 15.88 / (28.60/28.60) | 15.88 / (28.60/28.60) | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) |
| Total Piping Length / Height Difference | m | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| Max Piping Length (outdoor to indoor) | m | 165 | 165 | 165 | 165 | 165 | 165 |
| Current Quantity of Refrigerant | kg | 13.5 | 15.5 | 15.5 | 16.0 | 18.0 | 18.0 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 16 & 25 | 16 & 32 | 20 & 32 | 25 & 32 | 32 & 32 | 32 & 32 |
| Starting current | A | 24 | 106 | 111 | 114 | 118 | 122 |
| Running current (cooling / heating) | A | 25.0 / 26.5 | 27.7 / 27.6 | 33.3 / 32.2 | 35.1 / 35.5 | 40.4 / 37.6 | 42.8 / 39.6 |
| Working Range (cooling / heating) | °C | -5°C~43(db)°C / -20°C~15(wb)°C | | | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue

⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only

⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102



RAS FSXN

Modular 2 or 3-pipe

| Outdoor Unit | | RAS 32FSXN | RAS 34FSXN | RAS 36FSXN | RAS 38FSXN | RAS 40FSXN | RAS 42FSXN |
|--|-------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Outdoor Combination | | 16 + 16 | 16 + 18 | 18 + 18 | 12 + 12 + 14 | 12 + 12 + 16 | 12 + 12 + 18 |
| Power supply | | 400V / 3Ph / 50Hz | | | | | |
| Nominal Cooling Capacity | kW | 90.0 | 95.0 | 100.0 | 109.0 | 112.0 | 118.0 |
| Nominal Heating Capacity | kW | 100.0 | 106.0 | 112.0 | 118.0 | 125.0 | 132.0 |
| UK Cooling Capacity | kW | 77.4 | 81.7 | 86.0 | 93.7 | 96.3 | 101.5 |
| Maximum Indoor Units ⁽¹⁾ | | 53 | 56 | 59 | 64 | 64 | 64 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 3.23 / 3.90 | 3.30 / 3.85 | 3.37 / 3.81 | 3.29 / 3.87 | 3.34 / 3.71 | 3.32 / 3.65 |
| Energy Class (Cool/Heat) | | A / A | A / A | A / A | A / A | A / A | A / A |
| Noise level (sound pressure) (night mode) | dB(A) | 65 (60) | 66 (61) | 66 (61) | 66 (61) | 66 (61) | 66 (61) |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc | tbc | tbc |
| Air flow (Cooling / Heating) | m ³ /h | 11700 + 11700 | 11700 + 11700 | 11700 + 11700 | 2 x 10500 + 11700 | 2 x 10500 + 11700 | 2 x 10500 + 11700 |
| Dimensions (H x W x D) | mm | 1720x2440x765 | 1720x2440x765 | 1720x2440x765 | 1720x3150x765 | 1720x3150x765 | 1720x3150x765 |
| Weight | kg | 295 + 295 | 295 + 315 | 315 + 315 | 210 + 210 + 295 | 210 + 210 + 295 | 210 + 210 + 315 |
| Piping diameter (Liquid / Gas x 2) | Inch | 3/4 / (1 1/4/11/8) | 3/4 / (1 1/4/11/8) | 3/4 / (1 1/4/11/8) | 3/4 / (1 1/2/11/4) | 3/4 / (1 1/2/11/4) | 3/4 / (1 1/2/11/4) |
| | mm | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) |
| Total Piping Length / Height Difference | m | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| Max Piping Length (outdoor to indoor) | m | 165 | 165 | 165 | 165 | 165 | 165 |
| Current Quantity of Refrigerant | kg | 18.0 | 19.5 | 21.0 | 23.0 | 23.0 | 24.5 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 32 & 32 | 32 & 32 | 32 & 32 | 25 & 25 & 32 | 25 & 25 & 32 | 25 & 25 & 32 |
| Starting current | A | 122 | 140 | 144 | 133 | 133 | 151 |
| Running current (cooling / heating) | A | 45.2 / 41.6 | 46.7 / 44.6 | 48.2 / 47.6 | 53.6 / 49.0 | 54.0 / 54.2 | 57.2 / 58.2 |
| Working Range (cooling / heating) | °C | -5°C~-43(db)°C / -20°C~-15(wb)°C | | | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

Did you know?

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**SYSTEM
FREE**

Set Free VRF Systems



RAS FSXN

Modular 2 or 3-pipe

| Outdoor Unit | | RAS 44FSXN | RAS 46FSXN | RAS 48FSXN | RAS 50FSXN | RAS 52FSXN | RAS 54FSXN |
|--|-------------------|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Outdoor Combination | | 12 + 14 + 18 | 12 + 16 + 18 | 12 + 18 + 18 | 14 + 18 + 18 | 16 + 18 + 18 | 18 + 18 + 18 |
| Power supply | | 400V / 3Ph / 50Hz | | | | | |
| Nominal Cooling Capacity | kW | 125.0 | 132.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| Nominal Heating Capacity | kW | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 |
| UK Cooling Capacity | kW | 107.5 | 113.5 | 117.0 | 120.4 | 124.7 | 129.0 |
| Maximum Indoor Units ⁽¹⁾ | | 64 | 64 | 64 | 64 | 64 | 64 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 3.27 / 3.75 | 3.16 / 3.71 | 3.24 / 3.74 | 3.33 / 3.98 | 3.32 / 3.98 | 3.37 / 4.01 |
| Energy Class (Cool/Heat) | | A / A | B / A | A / A | A / A | A / A | A / A |
| Noise level (sound pressure) (night mode) | dB(A) | 67 (62) | 67 (62) | 67 (62) | 67 (62) | 67 (62) | 68 (63) |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc | tbc | tbc |
| Air flow (Cooling / Heating) | m ³ /h | 10500 + 2 x 11700 | 10500 + 2 x 11700 | 10500 + 2 x 11700 | 3 x 11700 | 3 x 11700 | 3 x 11700 |
| Dimensions (H x W x D) | mm | 1720x3410x765 | 1720x3410x765 | 1720x3410x765 | 1720x3670x765 | 1720x3670x765 | 1720x3670x765 |
| Weight | kg | 210 + 295 + 315 | 210 + 295 + 315 | 210 + 315 + 315 | 295 + 315 + 315 | 295 + 315 + 315 | 315 + 315 + 315 |
| Piping diameter (Liquid / Gas x 2) | Inch | 3/4 / (1 1/2/1 1/4) | 3/4 / (1 1/2/1 1/4) | 3/4 / (1 1/2/1 1/4) | 3/4 / (1 1/2/1 1/4) | 3/4 / (1 1/2/1 1/4) | 3/4 / (1 1/2/1 1/4) |
| | mm | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) | 19.05 / (38.10/31.75) |
| Total Piping Length / Height Difference | m | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| Max Piping Length (outdoor to indoor) | m | 165 | 165 | 165 | 165 | 165 | 165 |
| Current Quantity of Refrigerant | kg | 26.5 | 26.5 | 28.0 | 30.0 | 30.0 | 31.5 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 25 & 32 & 32 | 25 & 32 & 32 | 25 & 32 & 32 | 32 & 32 & 32 | 32 & 32 & 32 | 32 & 32 & 32 |
| Starting current | A | 155 | 160 | 163 | 167 | 172 | 176 |
| Running current (cooling / heating) | A | 62.0 / 60.4 | 67.6 / 63.1 | 67.9 / 64.8 | 68.4 / 63.2 | 70.8 / 65.2 | 72.3 / 66.6 |
| Working Range (cooling / heating) | °C | -5°C~43(db)°C / -20°C~15(wb)°C | | | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue

⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only

⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

| CH Boxes | | CH-6.0N1 | CH-10.0N1 |
|--|------|----------------------------------|----------------------------------|
| Power supply | | 230V / 1Ph / 50Hz | 230V / 1Ph / 50Hz |
| Nominal capacity | HP | HP ≤ 6 | 6 < HP ≤ 10 |
| Maximum number of indoor units | - | 7 | 8 |
| Electricity demand | W | 20 | 20 |
| Dimensions (H x W x D) | mm | 191x301x214 | 191x301x214 |
| Weight | kg | 7 | 7 |
| | | | |
| Piping diameter - Outdoor Unit to CH Box (High/Low Pressure) | Inch | (1/2 - 5/8) / (5/8 - 3/4) | (5/8 - 3/4) / (3/4 - 7/8) |
| | mm | (12.7 - 15.88) / (15.88 - 19.05) | (15.88 - 19.05) / (19.05 - 22.2) |
| Piping diameter - From Indoor Unit | Inch | 1/2 - 5/8 | 3/4 - 7/8 |
| | mm | 12.7 - 15.88 | 19.05 - 22.2 |
| Recommended fuse size | A | 5 | 5 |



RAS FSXNH

High efficiency Modular 2 or 3-pipe

| Outdoor Unit | | RAS 5FSXNH | RAS 6FSXNH | RAS 8FSXNH | RAS 10FSXNH |
|--|-------------------|--------------------------------|----------------------|----------------------|----------------------|
| Outdoor Combination | | | | - | - |
| Power supply | | 400V / 3Ph / 50Hz | | | |
| Nominal Cooling Capacity | kW | 14.0 | 16.0 | 22.4 | 28.0 |
| Nominal Heating Capacity | kW | 16.0 | 18.0 | 25.0 | 31.5 |
| UK Cooling Capacity | kW | 12.0 | 13.8 | 19.3 | 24.1 |
| Maximum Indoor Units ⁽¹⁾ | | 8 | 9 | 13 | 16 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 4.49 / 4.80 | 4.56 / 4.58 | 4.66 / 4.67 | 4.34 / 4.67 |
| Energy Class (Cool/Heat) | | A / A | A / A | A / A | A / A |
| Noise level (sound pressure) (night mode) | dB(A) | 55 (52) | 56 (52) | 58 (53) | 59 (54) |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc |
| Airflow (Cooling / Heating) | m ³ /h | 8400 | 9300 | 9600 | 10500 |
| External static Pressure | Pa | 60 | 60 | 60 | 60 |
| Dimensions (H x W x D) | mm | 1720x950x765 | 1720x950x765 | 1720x1210x765 | 1720x1210x765 |
| Weight | kg | 215 | 215 | 260 | 260 |
| Piping diameter (Liquid / Gas x 2) | Inch | 3/8 / (5/8/1/2) | 3/8 / (3/4/5/8) | 3/8 / (3/4/5/8) | 3/8 / (7/8/3/4) |
| | mm | 9.52 / (15.88/12.70) | 9.52 / (19.05/15.88) | 9.52 / (19.05/15.88) | 9.53 / (22.20/19.05) |
| Total Piping Length / Height Difference ⁽⁴⁾ | m | 1000 / 90 | 1000 / 90 | 1000 / 90 | 1000 / 90 |
| Max Piping Length (outdoor to indoor) | m | 165 | 165 | 165 | 165 |
| Current Quantity of Refrigerant | kg | 5.6 | 5.6 | 7.7 | 7.7 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 16 | 16 | 16 | 20 |
| Starting current | A | 8 | 8 | 8 | 8 |
| Running current (cooling / heating) | A | 5.0 / 5.3 | 5.6 / 6.2 | 7.7 / 8.6 | 10.3 / 10.8 |
| Working Range (cooling / heating) | °C | -5°C~43(db)°C / -20°C~15(wb)°C | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue

⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only

⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

⁽⁴⁾ Restrictions apply, please consult the Technical Catalogue

Did you know?

Our Set Free VRF can connect to any indoor units from our System Free range for ultimate flexibility



Set Free VRF Systems 



RAS FSXNH

High efficiency Modular 2 or 3-pipe

| RAS 12FSXNH | RAS 12FSXNH-P | RAS 14FSXNH | RAS 16FSXNH | RAS 18FSXNH | RAS 20FSXNH |
|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| - | 6 + 8 | 6 + 8 | 8 + 8 | 8 + 10 | 8 + 12 |
| 400V / 3Ph / 50Hz | | | | | |
| 33.5 | 33.5 | 40.0 | 45.0 | 50.0 | 56.0 |
| 37.5 | 37.5 | 45.0 | 50.0 | 56.0 | 63.0 |
| 28.8 | 28.8 | 34.4 | 38.7 | 43.0 | 48.2 |
| 19 | 19 | 23 | 26 | 26 | 33 |
| 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| 3.93 / 4.11 | 4.70 / 4.73 | 4.58 / 4.59 | 4.65 / 4.67 | 4.48 / 4.68 | 4.19 / 4.31 |
| A / A | A / A | A / A | A / A | A / A | A / A |
| 61 (56) | 61 (56) | 61 (56) | 61 (56) | 62 (57) | 63 (58) |
| tbc | tbc | tbc | tbc | tbc | tbc |
| 11700 | 9300 + 9600 | 9300 + 9600 | 9600 + 9600 | 9600 + 10500 | 9600 + 11700 |
| 60 | 60 | 60 | 60 | 60 | 60 |
| 1720x1210x765 | 1720x2160x765 | 1720x2160x765 | 1720x2420x765 | 1720x2420x765 | 1720x2420x765 |
| 260 | 215 + 260 | 215 + 260 | 260 + 260 | 260 + 260 | 260 + 260 |
| 1/2 / (1 1/8/7/8) | 1/2 / (1 1/8/7/8) | 1/2 / (1 1/8/7/8) | 1/2 / (1 1/8/7/8) | 5/8 / (1 1/8/7/8) | 5/8 / (1 1/8/7/8) |
| 12.70 / (28.60/22.2) | 12.70 / (28.60/22.2) | 12.70 / (28.60/22.2) | 12.70 / (28.60/22.2) | 15.88 / (28.60/22.2) | 15.88 / (28.60/22.2) |
| 1000 / 90 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| 165 | 165 | 165 | 165 | 165 | 165 |
| 8.3 | 13.3 | 13.3 | 15.4 | 15.5 | 16.0 |
| calculate | calculate | calculate | calculate | calculate | calculate |
| 25 | 16 & 16 | 16 & 16 | 16 & 16 | 16 & 20 | 16 & 25 |
| 8 | 17 | 17 | 17 | 17 | 17 |
| 13.7 / 14.5 | 11.4 / 12.6 | 13.9 / 15.6 | 15.5 / 17.2 | 17.9 / 19.2 | 21.4 / 23.3 |
| -5°C~43(db)°C / -20°C~15(wb)°C | | | | | |
| R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue
⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only
⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the “cooling” mode operation in accordance to EN12102
⁽⁴⁾ Restrictions apply, please consult the Technical Catalogue



RAS FSXNH

High efficiency Modular 2 or 3-pipe

| Outdoor Unit | | RAS 22FSXNH | RAS 24FSXNH | RAS 24FSXNH-P | RAS 26FSXNH |
|--|-------------------|--------------------------------|-----------------------|-----------------------|-----------------------|
| Outdoor Combination | | 10 + 12 | 12 + 12 | 8 + 8 + 10 | 8 + 8 + 10 |
| Power supply | | 400V / 3Ph / 50Hz | | | |
| Nominal Cooling Capacity | kW | 61.5 | 69.0 | 69.0 | 73.0 |
| Nominal Heating Capacity | kW | 69.0 | 77.5 | 77.5 | 82.5 |
| UK Cooling Capacity | kW | 52.9 | 59.3 | 59.3 | 62.8 |
| Maximum Indoor Units ⁽¹⁾ | | 36 | 40 | 40 | 43 |
| Minimum - Maximum connected capacity | | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| Nominal Load Efficiency EER / COP ⁽²⁾ | | 4.11 / 4.35 | 3.91 / 4.09 | 4.64 / 4.64 | 4.53 / 4.66 |
| Energy Class (Cool/Heat) | | A / A | A / A | A / A | A / A |
| Noise level (sound pressure) (night mode) | dB(A) | 64 (59) | 64 (59) | 64 (59) | 64 (59) |
| Noise level (sound power) ⁽³⁾ | dB(A) | tbc | tbc | tbc | tbc |
| Airflow (Cooling / Heating) | m ³ /h | 10500 + 11700 | 11700 + 11700 | 9600+9600+10500 | 9600+9600+10500 |
| External static Pressure | Pa | 60 | 60 | 60 | 60 |
| Dimensions (H x W x D) ⁽⁴⁾ | mm | 1720x2420x765 | 1720x2420x765 | 1720x3630x765 | 1720x3630x765 |
| Weight | kg | 260 + 260 | 260 + 260 | 260 + 260 + 260 | 260 + 260 + 260 |
| Piping diameter (Liquid / Gas x 2) | Inch | 5/8 / (1 1/8 / 1 1/8) | 5/8 / (1 1/8 / 1 1/8) | 3/4 / (1 1/4 / 1 1/8) | 3/4 / (1 1/4 / 1 1/8) |
| | mm | 15.88 / (28.60/28.60) | 15.88 / (28.60/28.60) | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) |
| Total Piping Length / Height Difference ⁽⁵⁾ | m | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| Maximum Piping Length (outdoor to furthest indoor) | m | 165 | 165 | 165 | 165 |
| Current Quantity of Refrigerant | kg | 16.0 | 16.6 | 23.0 | 23.0 |
| Chargeless / Additional Refrigerant Charge | m / g/m | calculate | calculate | calculate | calculate |
| Recommended fuse size | A | 20 & 25 | 25 & 25 | 16 & 16 & 20 | 16 & 16 & 20 |
| Starting current | A | 17 | 17 | 25 | 25 |
| Running current (cooling / heating) | A | 24.0 / 25.3 | 28.3 / 30.1 | 23.9 / 26.8 | 25.8 / 28.4 |
| Working Range (cooling / heating) | °C | -5°C~43(db)°C / -20°C~15(wb)°C | | | |
| Refrigerant / GWP | | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Compressor type | | Scroll | Scroll | Scroll | Scroll |

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102⁽⁴⁾ Includes 20mm between each outdoor unit⁽⁵⁾ Restrictions apply, please consult the Technical Catalogue

Did you know?

Our Set Free VRF can connect to any indoor units from our System Free range for ultimate flexibility



RAS FSXNH

Set Free VRF Systems



High efficiency Modular 2 or 3-pipe

| RAS 28FSXNH | RAS 30FSXNH | RAS 32FSXNH | RAS 34FSXNH | RAS 36FSXNH |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 8 + 8 + 12 | 8 + 10 + 12 | 8 + 12 + 12 | 10 + 12 + 12 | 12 + 12 + 12 |
| 400V / 3Ph / 50Hz | | | | |
| 80.0 | 85.0 | 90.0 | 95.0 | 100.0 |
| 90.0 | 95.0 | 100.0 | 106.0 | 112.0 |
| 68.8 | 73.1 | 77.4 | 81.7 | 86.0 |
| 47 | 50 | 53 | 56 | 59 |
| 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% | 50% - 130% |
| 4.30 / 4.39 | 4.24 / 4.42 | 4.09 / 4.24 | 4.05 / 4.27 | 3.93 / 4.11 |
| A / A | A / A | A / A | A / A | A / A |
| 64 (59) | 65 (60) | 65 (60) | 66 (61) | 66 (61) |
| tbc | tbc | tbc | tbc | tbc |
| 9600+9600+11700 | 9600+10500+11700 | 9600+11700+11700 | 10500+11700+11700 | 11700+11700+11700 |
| 60 | 60 | 60 | 60 | 60 |
| 1720x3630x765 | 1720x3630x765 | 1720x3630x765 | 1720x3630x765 | 1720x3630x765 |
| 260 + 260 + 260 | 260 + 260 + 260 | 260 + 260 + 260 | 260 + 260 + 260 | 260 + 260 + 260 |
| 3/4 / (1 1/4 / 1 1/8) | 3/4 / (1 1/4 / 1 1/8) | 3/4 / (1 1/4 / 1 1/8) | 3/4 / (1 1/4 / 1 1/8) | 3/4 / (1 1/2 / 1 1/8) |
| 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) | 19.05 / (31.75/28.60) | 19.05 / (38.10/28.60) |
| 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 | 1000 / 50 |
| 165 | 165 | 165 | 165 | 165 |
| 23.7 | 23.7 | 24.3 | 24.3 | 24.9 |
| calculate | calculate | calculate | calculate | calculate |
| 16 & 16 & 25 | 16 & 20 & 25 | 16 & 25 & 25 | 20 & 25 & 25 | 25 & 25 & 25 |
| 25 | 25 | 25 | 25 | 25 |
| 29.8 / 32.8 | 32.2 / 34.3 | 35.3 / 37.6 | 37.7 / 39.5 | 40.8 / 43.2 |
| -5°C~43(db)°C / -20°C~15(wb)°C | | | | |
| R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 | R410a / 1975 |
| Scroll | Scroll | Scroll | Scroll | Scroll |

| CH Boxes | | CH-6.0N1 | CH-10.0N1 |
|--|------|----------------------------------|----------------------------------|
| Power supply | | 230V / 1Ph / 50Hz | 230V / 1Ph / 50Hz |
| Nominal capacity | HP | HP ≤ 6 | 6 < HP ≤ 10 |
| Maximum number of indoor units | - | 7 | 8 |
| Electricity demand | W | 20 | 20 |
| Dimensions (H x W x D) | mm | 191x301x214 | 191x301x214 |
| Weight | kg | 7 | 7 |
| Piping diameter - Outdoor Unit to CH Box (High/Low Pressure) | Inch | (1/2 - 5/8) / (5/8 - 3/4) | (5/8 - 3/4) / (3/4 - 7/8) |
| | mm | (12.7 - 15.88) / (15.88 - 19.05) | (15.88 - 19.05) / (19.05 - 22.2) |
| Piping diameter - From Indoor Unit | Inch | 1/2 - 5/8 | 3/4 - 7/8 |
| | mm | 12.7 - 15.88 | 19.05 - 22.2 |
| Recommended fuse size | A | 5 | 5 |



System Free Indoor Units

| | | HP | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 3.0 | 4.0 |
|---------------------|--------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | | Size | 15 | 20 | 25 | 32 | 40 | - | 50 | - | 63 | 80 | 100 |
| Wall Mounted | RPK-FSN3M | • | ⌚ | • | • | ⌚ | • | ⌚ | • | ⌚ | • | • | • |
| | Nominal Cooling (kW) | 1.7 | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | 6.7 | 7.1 | 8.0 | 11.2 | |
| | Nominal Heating (kW) | 1.9 | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | 7.5 | 8.5 | 9.0 | 12.5 | |
| | UK Total Cooling (kW) | 1.5 | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | 6.2 | 6.4 | 7.5 | 10.5 | |
| | UK Sensible Cooling (kW) | 1.4 | 1.9 | 2.0 | 2.8 | 3.2 | 3.2 | 3.7 | 4.6 | 4.7 | 5.7 | 7.5 | |



RPK-FSN3M

0.8HP > 0.6HP Dip Switching only available when connected to Series 2 Mini Set Free Systems

| | | HP | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 |
|--|--------------------------|------|-----|-----|-----|-----|-----|
| | | Size | 15 | 20 | 25 | 32 | 40 |
| Wall Mounted (remote expansion valve kit required) | RPK-FSNH3M | • | ⌚ | • | • | ⌚ | |
| | Nominal Cooling (kW) | 1.7 | 2.2 | 2.8 | 3.8 | 4.0 | |
| | Nominal Heating (kW) | 1.9 | 2.5 | 3.2 | 4.2 | 4.8 | |
| | UK Total Cooling (kW) | 1.5 | 2.1 | 2.6 | 3.4 | 3.9 | |
| | UK Sensible Cooling (kW) | 1.4 | 1.9 | 2.0 | 2.8 | 3.2 | |

| | |
|----------------------------|----------|
| Expansion Valve Kit | EV-1.5N1 |
|----------------------------|----------|

0.8HP > 0.6HP Dip Switching only available when connected to Series 2 Mini Set Free Systems

| | | HP | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 |
|--|--------------------------|------|-----|-----|-----|-----|-----|-----|-----|
| | | Size | 15 | 20 | 25 | 32 | 40 | - | 50 |
| Mini 4-Way Cassette (including grille) | RCIM-FSN2 | • | ⌚ | • | • | ⌚ | • | ⌚ | |
| | Nominal Cooling (kW) | 1.7 | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | |
| | Nominal Heating (kW) | 1.9 | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | |
| | UK Total Cooling (kW) | 1.5 | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | |
| | UK Sensible Cooling (kW) | 1.1 | 1.6 | 1.9 | 2.5 | 2.9 | 3.2 | 3.7 | |



RCIM-FSN2

0.8HP > 0.6HP Dip Switching only available when connected to Series 2 Mini Set Free Systems

| | | HP | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
|---|--------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|
| | | Size | 20 | 25 | 32 | 40 | - | 50 | - | 63 | 80 | 100 | 125 | 140 |
| 4-Way Cassette (including grille) | RCI-FSN3EI | • | ⌚ | • | ⌚ | • | ⌚ | • | ⌚ | • | • | • | • | • |
| | Nominal Cooling (kW) | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | 6.7 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 | |
| | Nominal Heating (kW) | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | 7.5 | 8.5 | 9.0 | 12.5 | 16.0 | 18.0 | |
| | UK Total Cooling (kW) | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | 6.2 | 6.4 | 7.5 | 10.5 | 12.7 | 14.8 | |
| | UK Sensible Cooling (kW) | 1.7 | 2.1 | 2.6 | 3.0 | 3.5 | 4.1 | 4.5 | 4.7 | 5.9 | 8.2 | 9.4 | 10.8 | |



RCI-FSN3EI

| | | HP | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
|---|--------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|
| | | Size | 20 | 25 | 32 | 40 | - | 50 | - | 63 | 80 | 100 | 125 | 140 |
| Hi-Efficiency 4-Way Cassette (including grille) | RCI-FSN3 | • | ⌚ | • | ⌚ | • | ⌚ | • | ⌚ | • | • | • | • | • |
| | Nominal Cooling (kW) | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | 6.7 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 | |
| | Nominal Heating (kW) | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | 7.5 | 8.5 | 9.0 | 12.5 | 16.0 | 18.0 | |
| | UK Total Cooling (kW) | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | 6.2 | 6.4 | 7.5 | 10.5 | 12.7 | 14.8 | |
| | UK Sensible Cooling (kW) | 1.8 | 2.2 | 3.0 | 3.5 | 4.0 | 4.6 | 5.4 | 5.6 | 6.1 | 8.1 | 9.1 | 10.2 | |



RCI-FSN3

• Capacity available with dip switch setting capacity range (HP)

⌚ Adjustable by dipswitch setting



System Free Indoor Units

| | HP | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 3.0 | 4.0 | 5.0 |
|---|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | Size | 20 | 25 | 32 | 40 | - | 50 | - | 63 | 80 | 100 | 125 |
| 2-Way Cassette (including grille) | RCD-FSN2 | • | ⌚ | • | ⌚ | • | ⌚ | • | ⌚ | • | • | • |
| | Nominal Cooling (kW) | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | 6.7 | 7.1 | 8.0 | 11.2 | 14.0 |
| | Nominal Heating (kW) | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | 7.5 | 8.5 | 9.0 | 12.5 | 16.0 |
| | UK Total Cooling (kW) | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | 6.2 | 6.4 | 7.5 | 10.5 | 12.7 |
| | UK Sensible Cooling (kW) | 1.7 | 2.1 | 2.5 | 2.8 | 3.4 | 3.9 | 4.6 | 4.7 | 5.6 | 7.7 | 8.8 |



RCD-FSN2

| | HP | 1.8 | 2.0 | 2.3 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
|--------------------------|--------------------------|-----|-----|-----|-----|-----|------|------|------|
| | Size | - | 50 | - | 63 | 80 | 100 | 125 | 140 |
| Ceiling Suspended | RPC-FSN2E | • | ⌚ | • | ⌚ | • | • | • | • |
| | Nominal Cooling (kW) | 5.2 | 5.6 | 6.7 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 |
| | Nominal Heating (kW) | 5.6 | 6.3 | 7.5 | 8.5 | 9.0 | 12.5 | 16.0 | 18.0 |
| | UK Total Cooling (kW) | 4.5 | 5.2 | 6.2 | 6.4 | 7.5 | 10.5 | 12.7 | 14.8 |
| | UK Sensible Cooling (kW) | 3.2 | 3.7 | 4.5 | 4.6 | 5.4 | 7.6 | 9.1 | 10.7 |



RPC-FSN2E

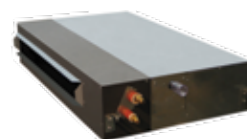
| | HP | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 |
|--|--------------------------|-----|-----|-----|-----|-----|
| | Size | 15 | 20 | 25 | 32 | 40 |
| Ducted In the Ceiling (Slim width) | RPIM-FSN4E-(DU) | • | ⌚ | ⌚ | • | ⌚ |
| | Nominal Cooling (kW) | 1.7 | 2.2 | 2.8 | 3.8 | 4.0 |
| | Nominal Heating (kW) | 1.9 | 2.5 | 3.2 | 4.2 | 4.8 |
| | UK Total Cooling (kW) | 1.5 | 2.1 | 2.6 | 3.4 | 3.9 |
| | UK Sensible Cooling (kW) | 1.2 | 1.7 | 2.1 | 2.4 | 2.8 |



RPIM-FSN4E - (DU)

0.8HP > 0.6HP Dip Switching only available when connected to Series 2 Mini Set Free Systems

| | HP | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 |
|--|--------------------------|-----|-----|-----|-----|-----|
| | Size | 15 | 20 | 25 | 32 | 40 |
| Ducted In the Ceiling (Low height) | RPI-FSN4E | • | ⌚ | ⌚ | • | ⌚ |
| | Nominal Cooling (kW) | 1.7 | 2.2 | 2.8 | 3.8 | 4.0 |
| | Nominal Heating (kW) | 1.9 | 2.5 | 3.2 | 4.2 | 4.8 |
| | UK Total Cooling (kW) | 1.5 | 2.1 | 2.6 | 3.4 | 3.9 |
| | UK Sensible Cooling (kW) | 1.2 | 1.7 | 2.1 | 2.5 | 2.8 |



RPI-FSN2E

0.8HP > 0.6HP Dip Switching only available when connected to Series 2 Mini Set Free Systems

| | HP | 1.8 | 2.0 | 2.3 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 |
|--|--------------------------|-----|-----|-----|-----|-----|------|------|------|
| | Size | - | 50 | - | 63 | 80 | 100 | 125 | 140 |
| Ducted In the Ceiling (Standard) | RPI-FSN4E | • | ⌚ | • | ⌚ | • | • | • | • |
| | Nominal Cooling (kW) | 5.2 | 5.6 | 6.7 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 |
| | Nominal Heating (kW) | 5.6 | 6.3 | 7.5 | 8.5 | 9.0 | 12.5 | 16.0 | 18.0 |
| | UK Total Cooling (kW) | 4.5 | 5.2 | 6.2 | 6.4 | 7.5 | 10.5 | 12.7 | 14.8 |
| | UK Sensible Cooling (kW) | 3.4 | 4.0 | 4.7 | 4.9 | 5.6 | 7.7 | 9.1 | 10.7 |



RPI-FSN2E



System Free Indoor Units

| | | | |
|--|-----------------------|------|------|
| Ducted In the Ceiling (Large capacity) | HP | 8.0 | 10.0 |
| | Size | 200 | 250 |
| | RPI-FSN3E | • | • |
| | Nominal Cooling (kW) | 22.4 | 28.0 |
| | Nominal Heating (kW) | 25.0 | 31.0 |
| | UK Total Cooling (kW) | 18.4 | 22.9 |
| UK Sensible Cooling (kW) | 14.2 | 18.1 | |



RPI-FSN3E

| | | | | | | | | | |
|-------------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Floor Concealed (Uncased) | HP | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 |
| | Size | 20 | 25 | 32 | 40 | - | 50 | - | 63 |
| | RPFI-FSN2E | • | ☺ | • | ☺ | • | • | • | ☺ |
| | Nominal Cooling (kW) | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | 6.7 | 7.1 |
| | Nominal Heating (kW) | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | 7.5 | 8.5 |
| | UK Total Cooling (kW) | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | 6.2 | 6.4 |
| UK Sensible Cooling (kW) | 1.5 | 1.9 | 2.5 | 2.8 | 3.3 | 3.8 | 4.5 | 4.7 | |



RPFI-FSN2E

| | | | | | | | | | |
|----------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Floor Standard (Cased) | HP | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 |
| | Size | 20 | 25 | 32 | 40 | - | 50 | - | 63 |
| | RPF-FSN2E | • | ☺ | • | ☺ | • | ☺ | • | ☺ |
| | Nominal Cooling (kW) | 2.2 | 2.8 | 3.8 | 4.0 | 5.2 | 5.6 | 6.7 | 7.1 |
| | Nominal Heating (kW) | 2.5 | 3.2 | 4.2 | 4.8 | 5.6 | 6.3 | 7.5 | 8.5 |
| | UK Total Cooling (kW) | 2.1 | 2.6 | 3.4 | 3.9 | 4.5 | 5.2 | 6.2 | 6.4 |
| UK Sensible Cooling (kW) | 1.5 | 1.9 | 2.5 | 2.8 | 3.3 | 3.8 | 4.5 | 4.7 | |



RPF-FSN2E

| | | | | |
|---|----------------------|-----|-----|------|
| Active KPI (Heat Recovery Ventilation with DX coil) | HP | 1.5 | 2.0 | 2.5 |
| | Size | 40 | 50 | 63 |
| | m ³ /hr | 500 | 800 | 1000 |
| | KPI-X3E | • | • | • |
| | Nominal Cooling (kW) | 5.3 | 8.0 | 10.8 |
| | Nominal Heating (kW) | 6.9 | 9.8 | 12.9 |
| Coil Cooling Cap. (kW) | 1.8 | 2.9 | 3.7 | |
| Coil Heating Cap. (kW) | 2.1 | 3.5 | 4.4 | |



KPI-X3E



Selection of Accessories / Pipe Kits

| Model | Description of Controls |
|----------|--|
| PC-ART | Standard Wired Remote Controller (inc. 7 Day Time Clock) |
| PC-ARF | Advanced Wired LED Controller (inc 7 Day Time Clock) |
| PC-ARH | Simple Wired Remote Controller |
| PC-LH3A | Wireless Remote Controller (Receiver kit required inc. with RPK-FSN2M) |
| PC-LH3B | Wireless Remote Controller (RCI-FSN3, RPK-FSN3M) - Receiver kit required |
| PC-ALH3 | Grille Receiver Kit (RCI-FSN3, Grilles P-AP160NA1 & P-AP160NAE) |
| PC-ALHN | Receiver Kit panel mounted (RCI-FSN3Ei) |
| PC-ALHD | Receiver Kit panel mounted (RCD-FSN3E) |
| PC-ALHC | Receiver Kit panel mounted (RCIM-FSN3E) |
| PC-ALHZ | Receiver Kit wall mounted (All System Free Indoor Units) |
| PC-ALHZF | Receiver Kit wall mounted (RPK-HSN(H)3M, RCI-FSN3) |

| Model | Set Free Mini, SideFlow & Standard VRF |
|----------|--|
| E-102SN2 | Piping Kit (2-Pipe) |
| E-162SN2 | Piping Kit (2-Pipe) |
| E 242SN2 | Piping Kit (2-Pipe) |
| E 302SN2 | Piping Kit (2-Pipe) |
| MH 84AN | Piping Kit (2-Pipe Header) |
| MH 108AN | Piping Kit (2-Pipe Header) |
| E 52XN2 | Piping Kit (3-Pipe) |
| E 102XN2 | Piping Kit (3-Pipe) |
| E 162XN2 | Piping Kit (3-Pipe) |
| E 202XN2 | Piping Kit (3-Pipe) |
| E 242XN2 | Piping Kit (3-Pipe) |
| E 322XN2 | Piping Kit (3-Pipe) |
| MH 108XN | Piping Kit (3-Pipe Header) |
| MC 20AN | Modular Set Free 2-pipe Branch Kit (RAS 20~24FSXN) |
| MC 21AN | Modular Set Free 2-pipe Branch Kit (RAS 26~36FSXN) |
| MC 30AN | Modular Set Free 2-pipe Branch Kit (RAS 28~54FSXN) |
| MC 20XN | Modular Set Free 3-pipe Branch Kit (RAS 20~24FSXN) |
| MC 21XN | Modular Set Free 3-pipe Branch Kit (RAS 26~36FSXN) |
| MC 30XN | Modular Set Free 3-pipe Branch Kit (RAS 28~54FSXN) |

| Model | Set Free Hi-Efficiency VRF |
|----------|---|
| E-102SN3 | Piping Kit (2-Pipe) |
| E-162SN3 | Piping Kit (2-Pipe) |
| E 242SN3 | Piping Kit (2-Pipe) |
| E 302SN3 | Piping Kit (2-Pipe) |
| MH 84AN | Piping Kit (2-Pipe Header) |
| MH 108AN | Piping Kit (2-Pipe Header) |
| E 52XN3 | Piping Kit (3-Pipe) |
| E 102XN3 | Piping Kit (3-Pipe) |
| E 162XN3 | Piping Kit (3-Pipe) |
| E 202XN3 | Piping Kit (3-Pipe) |
| E 242XN3 | Piping Kit (3-Pipe) |
| E 322XN3 | Piping Kit (3-Pipe) |
| MH 108XN | Piping Kit (3-Pipe Header) |
| MC 20AN1 | Modular Set Free 2-pipe Branch Kit (RAS 12~24FSXNH) |
| MC 30AN1 | Modular Set Free 2-pipe Branch Kit (RAS 24~36FSXNH) |
| MC 20XN1 | Modular Set Free 3-pipe Branch Kit (RAS 12~24FSXNH) |
| MC 30XN1 | Modular Set Free 3-pipe Branch Kit (RAS 24~36FSXNH) |