

## FAAC/HS 20÷104 W/N

Cooling capacity: 19.5 ÷ 103.7 kW

Heating capacity: 22.6 ÷ 115.8 kW



### FEATURES

- 11 sizes available ranging from 19.5 kW to 103.7 kW cooling capacity.
- Cooling only and heat pump version.
- Wide application as hotel, apartment, villa, factory, shopping center, office building, school, etc.
- Panels and frame are made from galvanized steel protected with polyester powder painting to ensure total resistance to atmospheric agents.
- High efficiency scroll compressor for the whole range, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.
- Compact indoor design, long air supply distance.
- Outdoor units are equipped with low noise axial fans.
- Indoor units are equipped with quiet centrifugal fans.
- Split installation, connected by means of flare/welding coupling.
- Easy operation line controller:
  - Cooling/Heating/Fan/Auto
  - Error indication
  - Timing On/Off
- Multi safety protection
  - High/low pressure protection
  - Overheat protection
  - Current overload protection
  - Phase sequence relay
  - Time delay and antifreeze switch

### OPTIONAL

- Additional electric heater on indoor unit
- Additional heating coil on indoor unit
- BMS

### NOMENCLATURE

F AA H C S 20 W  
① ② ③ ④ ⑤ ⑥ ⑦

- ① F: Fujiair product
- ② Unit type
- AA: Air to Air
- AW: Air to Water
- WA: Water to Air
- WW: Water to Water

- ③ C: Cooling only
- H: Heat pump
- ④ Refrigerant type
  - : R22
  - A: R410a
  - B: R134a
  - C: R407c
- ⑤ Type of unit
  - P: Packaged type
  - S: Split type

- ⑥ Model
- ⑦ Unit Name:
  - W: Outdoor unit
  - N: Indoor unit
  - W/N: The Whole unit

## TECHNICAL DATA

| Mod.                                  |                                | 20                | 25      | 32      | 36      | 42         | 48         |           |
|---------------------------------------|--------------------------------|-------------------|---------|---------|---------|------------|------------|-----------|
| <b>Nominal cooling capacity*</b>      | kW                             | 19.5              | 24.8    | 31.2    | 35.6    | 41.3       | 47.4       |           |
| <b>Nominal heating capacity**</b>     | kW                             | 22.6              | 28.9    | 35.8    | 40.8    | 46.9       | 54.4       |           |
| <b>Connection</b>                     |                                |                   |         |         |         |            |            |           |
| Method                                | /                              | Flare             | Flare   | Flare   | Welding | Welding    | Welding    |           |
| Liquid pipe diameter                  | ∅ mm                           | 9.52x2            | 12.7x2  | 12.7x2  | 15.88x1 | 15.88/12.7 | 15.88/12.7 |           |
| Gas pipe diameter                     | ∅ mm                           | 15.88x2           | 19.05x2 | 19.05x2 | 28x1    | 28/19.05   | 28/19.05   |           |
| <b>OUTDOOR UNIT</b>                   | <b>Compressor</b>              |                   |         |         |         |            |            |           |
|                                       | Qty/circuit nr.                | Nr.               | 2/2     | 2/2     | 2/2     | 1/1        | 2/2        |           |
|                                       | Cooling power input*           | kW                | 7.2     | 9.3     | 11.8    | 12.8       | 15.1       | 17.9      |
|                                       | Heating power input**          | kW                | 7.13    | 9.21    | 11.68   | 12.67      | 14.95      | 17.72     |
|                                       | Energy adjustment              | %                 | 50-100  | 50-100  | 50-100  | 0-100      | 40-60-100  | 33-66-100 |
|                                       | <b>Axial fans</b>              |                   |         |         |         |            |            |           |
|                                       | Quantity                       | Nr.               | 1       | 1       | 1       | 1          | 2          | 2         |
|                                       | Airflow                        | m <sup>3</sup> /h | 9400    | 9400    | 12500   | 14200      | 18800      | 18800     |
|                                       | <b>Sound pressure level***</b> | dB(A)             | 67      | 67      | 68      | 70         | 71         | 71        |
|                                       | <b>Net weight</b>              | kg                | 170     | 180     | 220     | 230        | 260        | 280       |
| <b>INDOOR UNIT</b>                    | <b>Centrifugal fans</b>        |                   |         |         |         |            |            |           |
|                                       | Quantity                       | Nr.               | 2       | 2       | 2       | 2          | 2          |           |
|                                       | Airflow                        | m <sup>3</sup> /h | 3500    | 4500    | 5650    | 6450       | 7400       | 8550      |
|                                       | ESP                            | Pa                | 120     | 100     | 150     | 130        | 180        | 200       |
|                                       | <b>Sound pressure level***</b> | dB(A)             | 64      | 64      | 66      | 66         | 68         | 68        |
|                                       | <b>Net weight</b>              | kg                | 90      | 100     | 150     | 160        | 180        | 200       |
| <b>Additional electric heater****</b> | kW                             | 2x3               | 2x4     | 2x5     | 2x6     | 2x6        | 2x8        |           |
| <b>Additional heating coil****</b>    | kW                             | 22.2              | 28.4    | 35.1    | 40.0    | 46.0       | 53.3       |           |

| Mod.                                  |                                | 52                | 62        | 72      | 88      | 104     |        |
|---------------------------------------|--------------------------------|-------------------|-----------|---------|---------|---------|--------|
| <b>Nominal cooling capacity*</b>      | kW                             | 51.3              | 63.3      | 71.3    | 87.9    | 103.7   |        |
| <b>Nominal heating capacity**</b>     | kW                             | 58.9              | 72.6      | 81.9    | 100.0   | 115.8   |        |
| <b>Connection</b>                     |                                |                   |           |         |         |         |        |
| Method                                | /                              | Welding           | Welding   | Welding | Welding | Welding |        |
| Liquid pipe diameter                  | ∅ mm                           | 15.88/12.7        | 15.88x2   | 15.88x2 | 15.88x2 | 19.05x2 |        |
| Gas pipe diameter                     | ∅ mm                           | 28/19.05          | 28x2      | 28x2    | 28x2    | 35x2    |        |
| <b>OUTDOOR UNIT</b>                   | <b>Compressor</b>              |                   |           |         |         |         |        |
|                                       | Qty/circuit nr.                | Nr.               | 2/2       | 2/2     | 2/2     | 2/2     |        |
|                                       | Cooling power input*           | kW                | 18.4      | 23.1    | 26.6    | 28.1    | 39.3   |
|                                       | Heating power input**          | kW                | 18.22     | 22.87   | 26.33   | 27.82   | 38.91  |
|                                       | Energy adjustment              | %                 | 30-70-100 | 50-100  | 50-100  | 50-100  | 50-100 |
|                                       | <b>Axial fans</b>              |                   |           |         |         |         |        |
|                                       | Quantity                       | Nr.               | 2         | 2       | 2       | 2       | 2      |
|                                       | Airflow                        | m <sup>3</sup> /h | 21500     | 26500   | 29880   | 36500   | 43500  |
|                                       | <b>Sound pressure level***</b> | dB(A)             | 71        | 71      | 71      | 71      | 71     |
|                                       | <b>Net weight</b>              | kg                | 330       | 340     | 460     | 780     | 800    |
| <b>INDOOR UNIT</b>                    | <b>Centrifugal fans</b>        |                   |           |         |         |         |        |
|                                       | Quantity                       | Nr.               | 2         | 2       | 2       | 2       |        |
|                                       | Airflow                        | m <sup>3</sup> /h | 9250      | 11450   | 12900   | 14800   | 17100  |
|                                       | ESP                            | Pa                | 200       | 300     | 300     | 280     | 500    |
|                                       | <b>Sound pressure level***</b> | dB(A)             | 68        | 68      | 69      | 69      | 70     |
|                                       | <b>Net weight</b>              | kg                | 220       | 230     | 300     | 320     | 400    |
| <b>Additional electric heater****</b> | kW                             | 2x8               | 2x10      | 2x10    | 2x12    | 2x14    |        |
| <b>Additional heating coil****</b>    | kW                             | 57.8              | 71.2      | 80.3    | 98.0    | 113.5   |        |

Performance values refer to the following conditions:

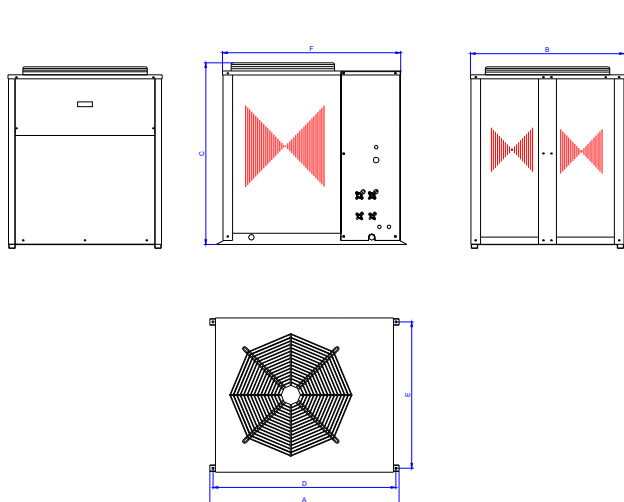
\* Cooling capacity is measured under the condition: indoor temperature DB 27°C / WB 19°C, ambient temperature DB 35°C / WB 24°C.

\*\* Heating capacity is measured under the condition: indoor temperature DB 20°C / WB 15°C, ambient temperature DB 7°C / WB 6°C.

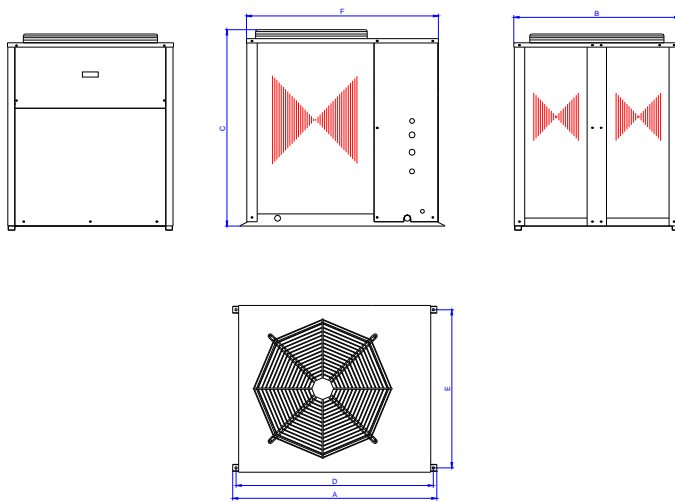
\*\*\* Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a dear field.

\*\*\*\* Optional as request.

FAAHS 20W ÷ 25W

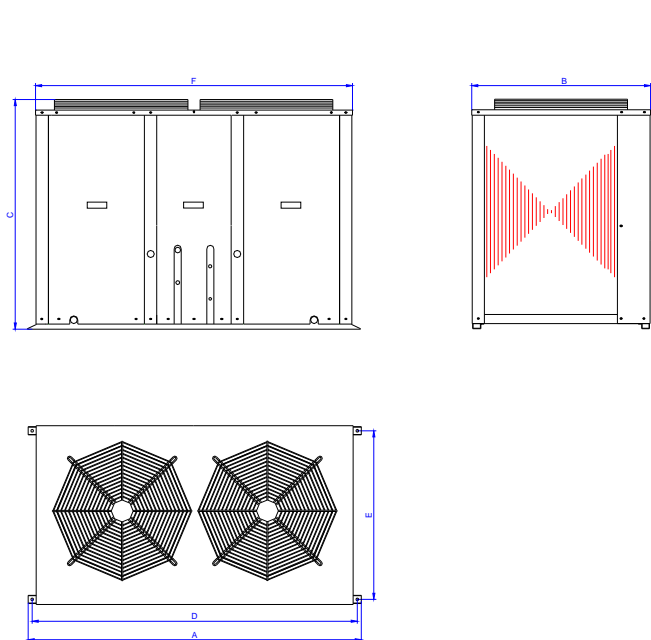


FAAHS 32W ÷ 36W

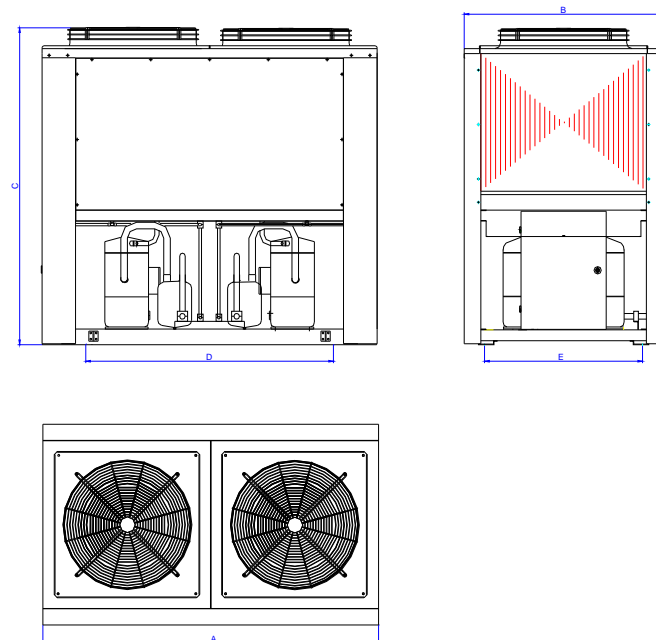


| Mod. | A    | B   | C    | D    | E   | F    | Mod. | A    | B   | C    | D    | E   | F    |
|------|------|-----|------|------|-----|------|------|------|-----|------|------|-----|------|
| 20W  | 1120 | 830 | 1030 | 1080 | 780 | 1050 | 32W  | 1180 | 960 | 1130 | 1140 | 910 | 1110 |
| 25W  | 1120 | 830 | 1030 | 1080 | 780 | 1050 | 36W  | 1180 | 960 | 1130 | 1140 | 910 | 1110 |

FAAHS 42W ÷ 72W



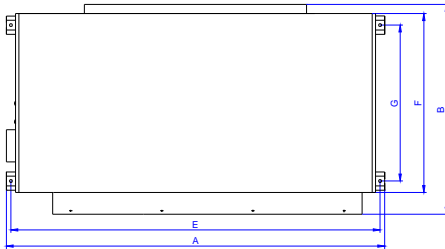
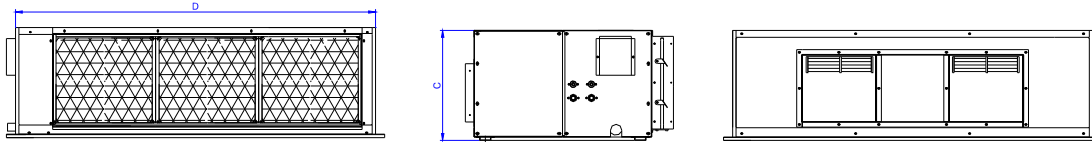
FAAHS 88W ÷ 104W



| Mod. | A    | B   | C    | D    | E   | F    | Mod. | A    | B    | C    | D    | E    | F    |
|------|------|-----|------|------|-----|------|------|------|------|------|------|------|------|
| 42W  | 1640 | 880 | 1130 | 1600 | 830 | 1560 | 72W  | 2120 | 970  | 1130 | 2080 | 920  | 2050 |
| 48W  | 1640 | 880 | 1130 | 1600 | 830 | 1560 | 88W  | 2165 | 1285 | 2030 | 1600 | 1020 | 2090 |
| 52W  | 1840 | 970 | 1130 | 1800 | 920 | 1760 | 104W | 2165 | 1285 | 2105 | 1600 | 1020 | 2090 |
| 62W  | 1840 | 970 | 1130 | 1800 | 920 | 1760 |      |      |      |      |      |      |      |

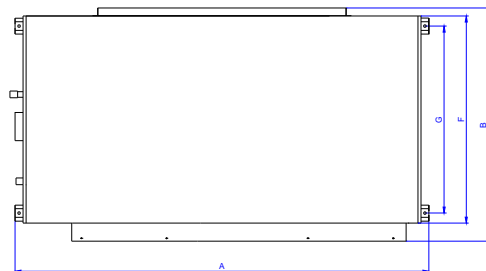
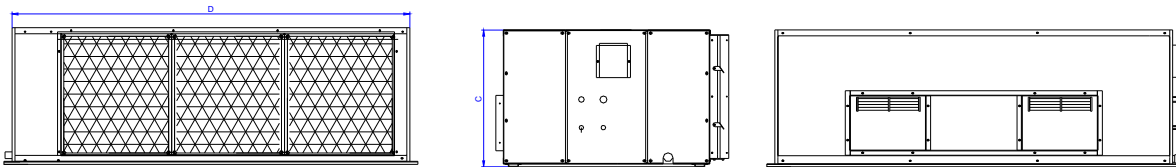
## OVERALL DIMENSIONS

### FAAHS 20N ÷ 32N



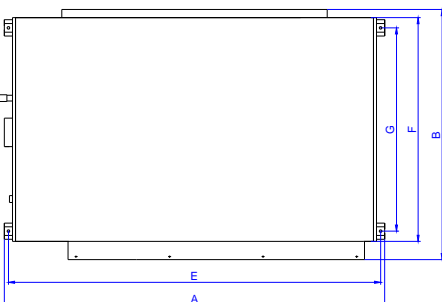
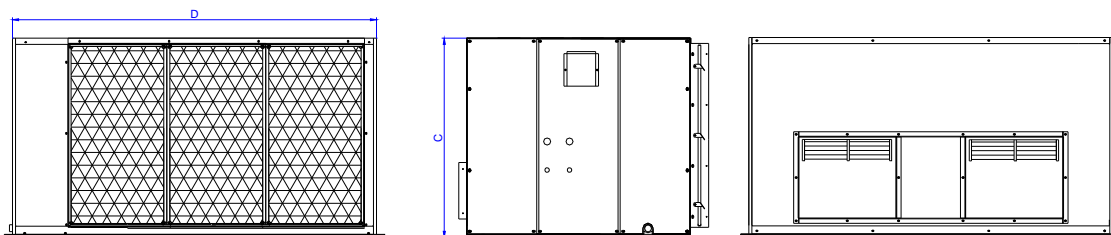
| Mod.       | A    | B   | C   | D    | E    | F   | G   |
|------------|------|-----|-----|------|------|-----|-----|
| <b>20N</b> | 1660 | 915 | 480 | 1580 | 1620 | 780 | 680 |
| <b>25N</b> | 1660 | 915 | 480 | 1580 | 1620 | 780 | 680 |
| <b>32N</b> | 1660 | 915 | 580 | 1580 | 1620 | 780 | 680 |

### FAAHS 36N ÷ 52N



| Mod.       | A    | B    | C   | D    | E    | F    | G   |
|------------|------|------|-----|------|------|------|-----|
| <b>36N</b> | 1790 | 915  | 580 | 1710 | 1750 | 780  | 680 |
| <b>42N</b> | 1840 | 1040 | 680 | 1760 | 1800 | 910  | 810 |
| <b>48N</b> | 2065 | 1160 | 680 | 1985 | 2025 | 1030 | 930 |
| <b>52N</b> | 2165 | 1160 | 680 | 2085 | 2125 | 1030 | 930 |

### FAAHS 62N ÷ 104N



| Mod.        | A    | B    | C    | D    | E    | F    | G    |
|-------------|------|------|------|------|------|------|------|
| <b>62N</b>  | 1870 | 1230 | 980  | 1790 | 1830 | 1100 | 1000 |
| <b>72N</b>  | 1870 | 1230 | 1080 | 1790 | 1830 | 1100 | 1000 |
| <b>88N</b>  | 2100 | 1270 | 1180 | 2020 | 2060 | 1140 | 1040 |
| <b>104N</b> | 2100 | 1270 | 1280 | 2020 | 2060 | 1140 | 1040 |