

## Caractéristiques techniques



| Model                        |                              |          | MSAFA-09HRFN1-QRC8          | MSAFB-12HRDN1-QC2           | MSAFC-17HRDN1-QC0           | MSAFD-21HRFN1-QC0W          |
|------------------------------|------------------------------|----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Power supply                 |                              | Ph-V-Hz  | 220-240V,1Ph,50Hz           | 220-240V,1Ph,50Hz           | 220-240V~,1Ph,50Hz          | 220-240V,1Ph,50Hz           |
| Rated Cooling                | Capacity                     | Btu/h    | 9500(3700~11300)            | 12000(2700~12500)           | 18000(4500~18000)           | 23000(4000~24000)           |
|                              | P designc                    | kW       | 2,7                         | 3,5                         | 5,0                         | 6,5                         |
|                              | Input                        | W        | 865(97~1420)                | 1090(150~1170)              | 1643(465~2130)              | 2100(300~2190)              |
|                              | Current                      | A        | 3.9(0.43~6.24)              | 4.7(1.2~5.2)                | 7.4(2.0~9.5)                | 9.25(1.4~9.7)               |
|                              | EER                          | W/W      | 3,2                         | 3,22                        | 3,2                         | 3,2                         |
|                              | SEER                         | W/W      | 7,0                         | 5,8                         | 6,1                         | 6,4                         |
| Rated Heating                | Capacity                     | Btu/h    | 10500(3600~13400)           | 12000(2800~12700)           | 18500(4400~19000)           | 23500(4200~24500)           |
|                              | P designh(Warmer)            | kW       | 2,5                         | 3,0                         | 4,8                         | 5,7                         |
|                              | Input                        | W        | 850(190~1510)               | 970(380~1150)               | 1500(300~1810)              | 1910(400~1990)              |
|                              | Current                      | A        | 3.8(0.83~6.63)              | 4.5(3.3~5.1)                | 6.7(2.0~8.1)                | 8.4(1.8~8.8)                |
|                              | COP                          | W/W      | 3,61                        | 3,63                        | 3,61                        | 3,61                        |
|                              | SCOP                         | W/W      | 4,3                         | 3,4                         | 3,6                         | 3,6                         |
| Max. input consumption       |                              | W        | 2300                        | 2300                        | 2800                        | 3000                        |
| Max. current                 |                              | A        | 10.5                        | 10.5                        | 13.5                        | 13.5                        |
| Compressor                   | Model                        |          | KSK103D32UEZ31              | KSK103D32UEZ31              | KSN140D21UFZB               | KTN150D30UFZA               |
|                              | Type                         |          | ROTARY                      | ROTARY                      | ROTARY                      | Twin-ROTARY                 |
|                              | Brand                        |          | GMCC                        | GMCC                        | GMCC                        | GMCC                        |
| Indoor fan motor             | Model                        |          | ZKFP-30-8-357L              | YKFG-13-4-38L-4             | YKFG-25-4-6-14              | ZKFP-58-8-20L               |
|                              | Input                        | W        | /                           | 40                          | 55                          | 58.0                        |
|                              | Speed (Hi/Mi/Lo)             | r/min    | 1100/900/750                | 1200/950/850                | 1200/1000/850               | 1200/1000/850               |
| Indoor air flow(Hi/Mi/Lo)    |                              | m3/h     | 374/291/230                 | 600/450/350                 | 805/640/530                 | 970/760/620                 |
| Indoor noise level(Hi/Mi/Lo) |                              | dB(A)    | 37.5/31.5/23.5              | 42/35/30                    | 43/38/32.5                  | 44.5/39/34                  |
| Indoor unit                  | Dimension(W*D*H)             | mm       | 715x194x285                 | 805x194x285                 | 957x213x302                 | 1040x220x327                |
|                              | Packing(W*D*H)               | mm       | 780x270x365                 | 870x270x365                 | 1035x295x385                | 1120x405x315                |
|                              | Net/Gross weight             | Kg       | 6.9/9                       | 8.2/10.4                    | 10.24/13.1                  | 12/15.4                     |
| Outdoor fan motor            | Model                        |          | ZKFN-25-10-5L               | ZKFN-25-10-5L               | ZKFN-34-10-1L               | ZKFN-34-10-1L               |
|                              | Input                        | W        | /                           | /                           | /                           | /                           |
|                              | Speed                        | r/min    | 780/600                     | 800/600                     | 810/700/550                 | 900/700/550                 |
| Outdoor air flow             |                              | m3/h     | 1750                        | 1800                        | 2500                        | 2500                        |
| Outdoor noise level          |                              | dB(A)    | 55,0                        | 55,5                        | 56.5                        | 55.5                        |
| Outdoor unit                 | Dimension(W*D*H)             | mm       | 720x270x495                 | 720x270x495                 | 805x330x554                 | 805x330x554                 |
|                              | Packing(W*D*H)               | mm       | 835x300x540                 | 835x300x540                 | 915x370x615                 | 915x370x615                 |
|                              | Net/Gross weight             | Kg       | 20.5/22.4                   | 20.4/22.2                   | 30.44/33                    | 31.7/34.3                   |
| Refrigerant type             |                              | Kg       | R410A/0.58                  | R410A/0.74                  | R410A/1.25                  | R410A/1.5                   |
| Design pressure              |                              | MPa      | 4.2/1.5                     | 4.2/1.5                     | 4.2/1.5                     | 4.2/1.5                     |
| Refrigerant piping           | Liquid side/Gas side         | mm(inch) | 6.35mm(1/4in)/9.52mm(3/8in) | 6.35mm(1/4in)/12.7mm(1/2in) | 6.35mm(1/4in)/12.7mm(1/2in) | 9.52mm(3/8in)/15.9mm(5/8in) |
|                              | Max. refrigerant pipe length | m        | 25                          | 25                          | 30                          | 30                          |
|                              | Max. difference in level     | m        | 10                          | 10                          | 20                          | 20                          |
| Connection wiring            |                              |          | 1.5x4//                     | 1.5x4//                     | 1.5x4//                     | 1.5x4//                     |
| Plug type                    |                              |          | 1.5x3/Plug                  | 1.5x3/VDEplug               | 1.5x3/no-plug               | //no-plug                   |
| Thermostat type              |                              |          | Remote Control              | Remote Control              | Remote Control              | Remote Control              |