

SPHERA-B Comfort

(SRHM-BC + MDAN-XMi)



| TECHNICAL DATA | | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 |
|--|---------|----------|----------|----------|----------|----------|----------|----------|
| Size – SRHM-BC + MDAN-XMi | | | | | | | | |
| Unit for radiant panels | | | | | | | | |
| A7/W35 | | | | | | | | |
| ▶ Heating capacity | kW | 4,23 | 6,33 | 8,09 | 9,69 | 12,2 | 14,2 | 15,8 |
| Total power input | kW | 0,81 | 1,31 | 1,77 | 2,11 | 2,54 | 2,91 | 3,28 |
| COP (EN 14511:2013) | - | 5,21 | 4,83 | 4,57 | 4,59 | 4,79 | 4,87 | 4,81 |
| A2/W35 | | | | | | | | |
| ▶ Heating capacity | kW | 4,02 | 5,44 | 6,35 | 7,66 | 9,13 | 10,8 | 11,6 |
| Total power input | kW | 1,16 | 1,45 | 1,74 | 2,08 | 2,60 | 3,34 | 3,55 |
| COP (EN 14511:2013) | - | 3,46 | 3,75 | 3,65 | 3,68 | 3,52 | 3,23 | 3,26 |
| A-7/W35 | | | | | | | | |
| ▶ Heating capacity | kW | 4,78 | 5,68 | 6,09 | 7,69 | 9,76 | 11,3 | 12,1 |
| Total power input | kW | 1,56 | 1,95 | 2,18 | 2,80 | 3,32 | 3,90 | 4,14 |
| COP (EN 14511:2013) | - | 3,06 | 2,91 | 2,79 | 2,75 | 2,94 | 2,90 | 2,91 |
| A35/W18 | | | | | | | | |
| ▶ Cooling capacity | kW | 4,47 | 6,19 | 8,01 | 10,2 | 11,4 | 14,3 | 15,4 |
| Total power input | kW | 0,80 | 1,29 | 1,81 | 2,03 | 2,59 | 3,10 | 3,56 |
| EER (EN 14511:2013) | - | 5,58 | 4,80 | 4,43 | 5,00 | 4,40 | 4,63 | 4,33 |
| Terminal units | | | | | | | | |
| A7/W45 | | | | | | | | |
| ▶ Heating capacity | kW | 4,06 | 6,00 | 7,29 | 9,77 | 12,2 | 14,6 | 16,4 |
| Total power input | kW | 1,10 | 1,65 | 2,15 | 2,70 | 3,35 | 3,86 | 4,42 |
| COP (EN 14511:2013) | - | 3,69 | 3,64 | 3,39 | 3,62 | 3,65 | 3,79 | 3,72 |
| A2/W45 | | | | | | | | |
| ▶ Heating capacity | kW | 4,04 | 5,52 | 6,74 | 7,30 | 9,16 | 11,3 | 11,7 |
| Total power input | kW | 1,32 | 1,83 | 2,39 | 2,57 | 3,32 | 3,99 | 4,30 |
| COP (EN 14511:2013) | - | 3,07 | 3,02 | 2,82 | 2,83 | 2,76 | 2,83 | 2,71 |
| A-7/W45 | | | | | | | | |
| ▶ Heating capacity | kW | 3,98 | 4,96 | 5,54 | 8,69 | 9,31 | 11,1 | 11,3 |
| Total power input | kW | 1,69 | 2,08 | 2,51 | 3,84 | 4,25 | 4,94 | 5,24 |
| COP (EN 14511:2013) | - | 2,36 | 2,38 | 2,20 | 2,26 | 2,19 | 2,24 | 2,16 |
| A35/W7 | | | | | | | | |
| ▶ Cooling capacity | kW | 4,34 | 6,24 | 7,57 | 9,52 | 11,3 | 14,2 | 15,5 |
| Total power input | kW | 1,27 | 2,05 | 2,73 | 3,20 | 4,25 | 5,14 | 5,71 |
| EER (EN 14511:2013) | - | 3,42 | 3,05 | 2,77 | 2,97 | 2,67 | 2,75 | 2,72 |
| ESEER | - | 4,82 | 4,58 | 3,85 | 3,57 | 4,32 | 4,07 | 4,02 |
| Radiators | | | | | | | | |
| A7/W55 | | | | | | | | |
| ▶ Heating capacity | kW | 3,96 | 5,43 | 6,66 | 8,87 | 10,3 | 13,1 | 14,8 |
| Total power input | kW | 1,34 | 1,82 | 2,45 | 3,27 | 3,86 | 4,40 | 5,37 |
| COP (EN 14511:2013) | - | 2,94 | 2,99 | 2,72 | 2,72 | 2,66 | 2,98 | 2,75 |
| A2/W55 | | | | | | | | |
| ▶ Heating capacity | kW | 3,52 | 4,97 | 6,40 | 7,84 | 7,83 | 10,8 | 10,9 |
| Total power input | kW | 1,43 | 1,99 | 2,72 | 3,49 | 3,50 | 4,54 | 4,65 |
| COP (EN 14511:2013) | - | 2,46 | 2,50 | 2,35 | 2,25 | 2,24 | 2,38 | 2,35 |
| A-7/W55 | | | | | | | | |
| ▶ Heating capacity | kW | 3,15 | 4,49 | 5,09 | 7,85 | 7,96 | 9,96 | 10,3 |
| Total power input | kW | 1,80 | 2,39 | 2,85 | 4,58 | 4,56 | 5,81 | 5,70 |
| COP (EN 14511:2013) | - | 1,75 | 1,88 | 1,79 | 1,71 | 1,74 | 1,71 | 1,81 |
| Water flow-rate (User Side) | (1) l/s | 0,20 | 0,30 | 0,39 | 0,47 | 0,56 | 0,66 | 0,74 |
| Useful pump discharge head | kPa | 50 | 50 | 47 | 42 | 54 | 49 | 42 |
| Standard power supply | V | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Sound pressure level (1m) outdoor unit | dB(A) | 46 | 48 | 50 | 52 | 54 | 55 | 55 |
| Min inlet air temperature (W.B.) | °C | -20 | -20 | -20 | -20 | -20 | -20 | -20 |
| Max. leaving water temperature | °C | 60 | 60 | 60 | 60 | 60 | 60 | 60 |

Notes

(1) A7/W35 internal exchanger water 30/35°C; external air temperature 7°C D.B./ 6°C W.B.

Performances according to EN 14511:2013

A7/W35 internal exchanger water 30/35°C; external air temperature 7°C D.B./ 6°C W.B.

A2/W35 internal exchanger water 30/35°C; external air temperature 2°C D.B./ 1,1°C W.B.

A-7/W35 internal exchanger water 30/35°C; external air temperature -7°C D.B./ -8°C W.B.

A7/W45 internal exchanger water 40/45°C; external air temperature 7°C D.B./ 6°C W.B.

A2/W45 internal exchanger water 40/45°C; external air temperature 2°C D.B./ 1,1°C W.B.

A-7/W45 internal exchanger water 40/45°C; external air temperature -7°C D.B./ -8°C W.B.

A7/W55 internal exchanger water 50/55°C; external air temperature 7°C D.B./ 6°C W.B.

A2/W55 internal exchanger water 50/55°C; external air temperature 2°C D.B./ 1,1°C W.B.

A-7/W55 internal exchanger water 50/55°C; external air temperature -7°C D.B./ -8°C W.B.

A35/W18 internal exchanger water 23/18°C; external air temperature 35°C

A35/W7 internal exchanger water 12/7°C; external air temperature 35°C

Two-section air-water reversible heat pump



ErP

| Size – SRHM-BC + MDAN-XMi | | | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 |
|--|-----|---|-----|-----|-----|-----|-----|-----|-----|
| ErP System Energy Class - AVERAGE Climate - W55 | (1) | - | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| ErP Space Heating Energy Class - AVERAGE Climate - W55 | (2) | - | A++ | A++ | A++ | A++ | A++ | A++ | A++ |

Notes
 The Product is compliant with the ErP (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤ 70 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤ 400 kW at specified reference conditions)
 (1) Seasonal Space Heating Energy Efficiency Class of the package according to Commission delegated Regulation (EU) No 811/2013
 (2) Seasonal Space Heating Energy Efficiency Class according to Commission delegated Regulation (EU) No 811/2013. W = Water outlet temperature (°C)

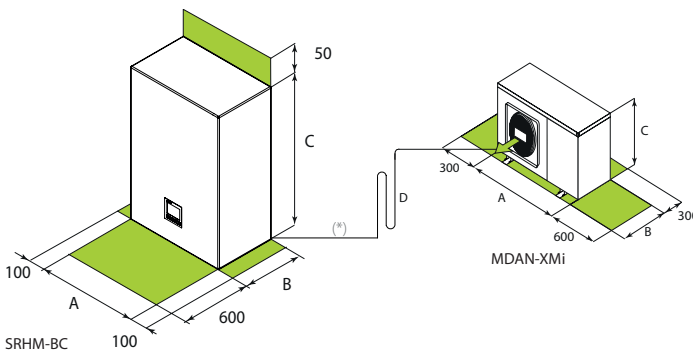
ACCESSORIES

| Size – SRHM-BC + MDAN-XMi | | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 |
|--------------------------------|--|-----|-----|-----|-----|--------|--------|--------|
| Basic configuration (230/1/50) | | std | std | std | std | std | std | std |
| Basic configuration (400/3/50) | | - | - | - | - | option | option | option |

| | |
|------------------|---|
| EH246X | 2-4 and 6 kW integration electric heater |
| ACS300X | 300-litre domestic hot water storage |
| ACS500X | 500-litre domestic hot water storage |
| ACS35X | 300-litre domestic hot water storage with coil for solar applications |
| ACS55X | 500-litre domestic hot water storage with coil for solar applications |
| HIDI15°BX | Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. White |
| HIDI15°NX | Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. Black |
| AMRX | Rubber antivibration mounts |
| AL12X | Power supply unit for HIDI152 thermostats and HID-UR sensor |
| KIRE2HX | 2 zones: external kit, both at high temperature |
| KIRE2HLX | 2 zones: external kit, high temperature + low temperature (mixed) |
| DTX | Auxiliary condensate collection tray |

Accessories whose code ends with "X" are separately supplied.

DIMENSIONS



| Size – SRHM-BC | | A | B |
|------------------|----|-----|-----|
| A - Length | mm | 462 | 462 |
| B - Width | mm | 316 | 316 |
| C - Height | mm | 698 | 698 |
| Operating weight | kg | 48 | 50 |

| Size – MDAN-XMi | | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 |
|-------------------------------------|----|-----|-----|------|------|------|------|------|
| A - Length | mm | 960 | 960 | 1075 | 900 | 900 | 900 | 900 |
| B - Width | mm | 380 | 380 | 395 | 400 | 400 | 400 | 400 |
| C - Height | mm | 860 | 860 | 965 | 1327 | 1327 | 1327 | 1327 |
| D - Max length of cooling lines | m | 20 | 20 | 30 | 50 | 50 | 50 | 50 |
| D - Max difference of cooling lines | m | 15 | 15 | 15 | 25 | 25 | 25 | 25 |
| Operating weight | kg | 60 | 60 | 76 | 109 | 109 | 109 | 109 |

ATTENTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.
 (*) Unit hydraulic and gas connections

Data contained in this document are not binding and may be changed by the Manufacturer without notice.