

# ARCTIC SERIES

HEATING

TILL -30°C



## ASH-13AIA1 PT ASH-18AIA1 PT

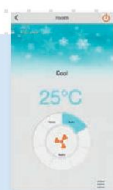
Energy class A++ / A++  
3-year warranty  
R410a environmentally friendly  
Silver design panel  
Standard filters-catechin and active carbon filter  
New construction of compressor  
Silent operation  
Adjustable position of guide louver/ left-right swing  
Cooling from -18°C to 54°C outdoor temperature  
Heating from -30°C to 24°C outdoor temperature  
Radio controlled (RC) remote controller



PLASMA+TEC DC INVERTER



SAA1FB1



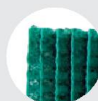
WIFI SMART APP



THE INDOOR UNIT HAS INBUILT WIFI MODULE, WITH WHICH THE AIR CONDITIONER CAN BE CONTROLLED BY IOS OR ANDROID PHONE / TABLET.

### OPTIONAL ACCESSORIES

FILTERS



Check page 5 for more information about optional healthy filters and page 52-53 for more information about optional controllers.



## TECHNICAL PARAMETERS

| MODEL                                   |                                  | ASH-13AIA1 PT |  | ASH-18AIA1 PT |                                   |  |  |
|---|----------------------------------|---------------|--|---------------|-----------------------------------|--|--|
| Capacity cooling / heating              | kW                               |               | 3,5 (0,4-4,5) / 3,6 (0,6-5,4)                                    |               | 5,3 (0,9-5,7) / 5,3 (0,8-7,2)     |  |  |
| Power supply                            | Hz / V                           |               | 1~ / 50 / 220-240  |               | 1~ / 50 / 220-240                 |  |  |
|   | Unit                             |               | Outdoor  |               | Outdoor                           |  |  |
| Power input cooling / heating           | W                                |               | 920 / 970  |               | 1600 / 1420                       |  |  |
| Rated power input                       | W                                |               | 1680   |               | 2400                              |  |  |
| Power current cooling / heating         | A                                |               | 4,1 / 4,2  |               | 7,1 / 6,2                         |  |  |
| Rated power current                     | A                                |               | 7,1  |               | 10,6                              |  |  |
| SEER / SCOP                             |                                  | 7,0 / 4,6     |  | 6,1 / 4,0     |                                   |  |  |
| Energy class Cooling/ Heating (average) |                                  | A++ / A++     |  | A++ / A+      |                                   |  |  |
| Air flow                                | ID                               | m³/h          | 720/ 550/ 490/ 420/ 370/ 320/ 290                                |               | 850/ 750/ 650/ 600/ 500/ 400/ 340 |  |  |
|   | OD                               | m³/h          | 2400   |               | 3200                              |  |  |
| Sound pressure level                    | ID                               | dB(A)         | 43/ 38/ 36/ 34/ 31/ 23/ 20                                       |               | 46/ 42/ 40/ 36/ 33/ 25/ 22        |  |  |
|   | OD                               | dB(A)         | 52   |               | 56                                |  |  |
| Dehumidifying volume                    | l/h                              |               | 1,40   |               | 1,80                              |  |  |
| Refrigerant type / charge               | Type / kg / t eq.CO <sub>2</sub> |               | R410A / 1,30 / 2,71  |               | R410A / 1,65 / 3,44               |  |  |
| Pipe diameter                           | Liquid side                      | inch / mm     | ¼ / 6,4  |               | ¼ / 6,4                           |  |  |
|   | Gas side                         | inch / mm     | ½ / 12,7   |               | ½ / 12,7                          |  |  |
| Standard pipe length                    | m                                |               | 5  |               | 5                                 |  |  |
| Min. / Max. pipe length                 | m                                |               | 3 / 20   |               | 3 / 25                            |  |  |
| Max. elevation / Drop height            | m                                |               | 10   |               | 10                                |  |  |
| Additional refrigerant                  | g/m                              |               | 20   |               | 20                                |  |  |
| Dimension (w x h x d)                   | ID                               | mm            | 860x305x170  |               | 960x320x205                       |  |  |
|   | OD                               | mm            | 899x596x378  |               | 965x700x396                       |  |  |
| Package dimension (w x h x d)           | ID                               | mm            | 935x388x295  |               | 1043x403x333                      |  |  |
|   | OD                               | mm            | 948x645x420  |               | 1029x750x458                      |  |  |
| Net/gross weight                        | ID                               | kg            | 11,5 / 14,0  |               | 14,0 / 17,0                       |  |  |
|   | OD                               | kg            | 44,5 / 47,5  |               | 51,0 / 55,5                       |  |  |
| Set temperature range                   | °C                               |               | 16 ~ 30  |               | 16 ~ 30                           |  |  |
| Operating temperature range             | Cooling                          | °C            | -18 ~ 54   |               | -18 ~ 54                          |  |  |
|   | Heating                          | °C            | -30 ~ 24   |               | -30 ~ 24                          |  |  |
| Optional healthy filters                | Model                            |               | SAF-OPWC1, SAF-OPWA1, SAF-OPWB1, SAF-OPWS1, SAF-OPWE1, SAF-OPWP1 |               |                                   |  |  |

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Data are based on following conditions:  
Length of connection pipe: 5m. Cooling: indoor temperature 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB. Heating condition: indoor temperature 20°C DB/15°C WB, outdoor temperature 7°C DB/6°C WB.  
SEER/SCOP was calculated according to European standards contained in EN14825 for average season, based on part load classifying and testing conditions given by norm EN14511. Energy label can be downloaded from Sinclair product web page after B2B login. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088. Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual Operation due to environmental change. Power input is tested under standard condition.