V017-EN-01

sinclair

RESIDENTIAL AIR CONDITIONING 2017

QUALITY ENHANCES PARTNERSHIP

With Sinclair air-conditioners, you can easily enjoy homely comfort and pleasant atmosphere in all types of residential living. Sinclair offers wide range of capacities, types and designs. Even for complex projects, we can find easy and comfortable solutions - e.g. MULTI SYSTEM SERIES with energy-saving technology DC INVERTER.

From the very beginning Sinclair has set its main target to bring quality and comfort to the life of people of the Blue Planet. Thanks to the attention paid to research, development, manufacturing and product testing as well as to the after sales support, Sinclair has reached a high level of quality and reliability.

Production processes of Sinclair air-conditioners comply with ISO 9001. Sinclair products are in conformity with European standards, which guarantee safe operation.

GLOBAL WEB PAGE

WWW.SINCLAIR-WORLD.COM

ON THE GLOBAL WEBSITES, YOU WILL FIND BASIC INFORMATION ABOUT OUR ASSORTMENT.

PRODUCT WEB PAGE

WWW.SINCLAIR-SOLUTIONS.COM

THESE WEBSITES ARE AIMED AT PARTNER COMPANIES WHO CAN DOWNLOAD THERE ALL THE DOCUMENTS (USER MANUALS, DECLARATIONS OF CONFORMITY ETC.) AND AFTER SIGNING INTO THE PARTNER (B2B) SECTION, YOU CAN UPLOAD THE TECHNICAL DOCUMENTATION AS WELL.

PLASMA TEC

Switch on the great new feature of your Sinclair air conditioner – PLASMA technology and feel the air becoming cleaner and fresher.

Sinclair air conditioner will not only cool or heat your room, but it will also make your environment safer. Plasma technology will make the air cleaner, fresher, free of harmful bacteria. Protect your family with this new feature. lower your chances of becoming sick with flu or any other illness caused by air-borne bacteria. You can lower the allergens in the air, improving life of allergic persons.

Plasma air technology produces a natural bio-climate rich in active oxygen molecules, known as ions. The Plasma air system creates a measurable and controllable quantity of positive and negative oxygen ions. The negative ions contain an extra electron while the positive ions are missing an electron resulting in an unstable condition.

These unstable ions provide the following benefits:

PARTICLE REDUCTION

Air-borne particles are charged by the ions through ionic bonding. These charged particles stick together, becoming heavier and then fall to the floor. These larger particles are also returned through the air conditioning system where they are captured by the filter.

ODOR NEUTRALIZATION

Odorous gases and aerosols oxidize on contact with active oxygen molecules. odors, especially of an organic origin, are quickly eliminated.

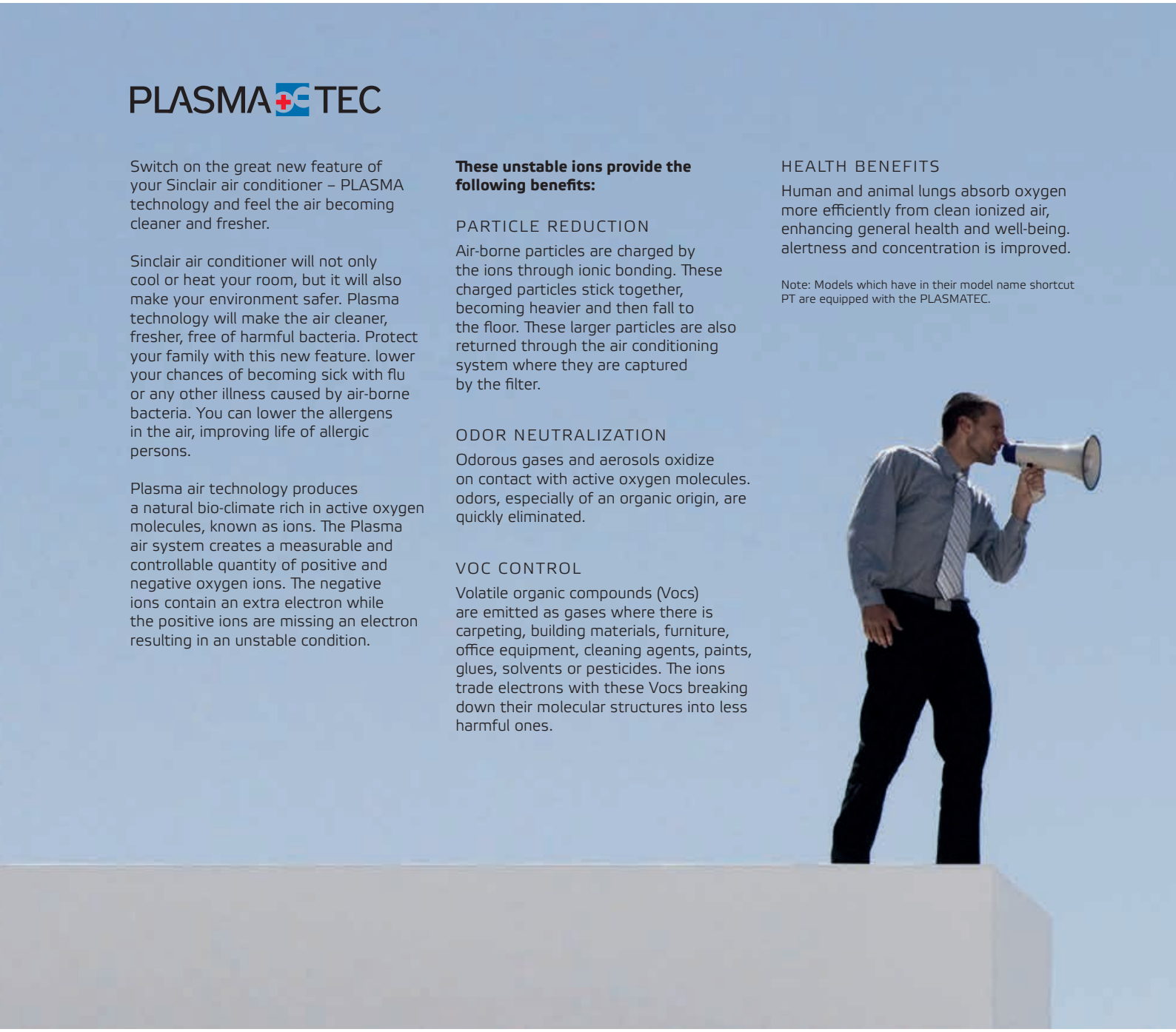
VOC CONTROL

Volatile organic compounds (Vocs) are emitted as gases where there is carpeting, building materials, furniture, office equipment, cleaning agents, paints, glues, solvents or pesticides. The ions trade electrons with these Vocs breaking down their molecular structures into less harmful ones.

HEALTH BENEFITS

Human and animal lungs absorb oxygen more efficiently from clean ionized air, enhancing general health and well-being. alertness and concentration is improved.

Note: Models which have in their model name shortcut PT are equipped with the PLASMATEC.



DC INVERTER

Standard air conditioners have a fixed speed compressor and therefore have no ability to reduce the power consumption as they are not able to vary the load. With a DC Inverter Drive, the unit can work on a partial load thereby reduces the power consumption not only on start up but also on running costs.

With the DC Inverter technology the temperature does not fluctuate and therefore provides more comfort. Energy consuption can be reduced by as much as 44% compared to fixed speed compressors.

OPTIONAL FILTERS

These optional filters can be used only with wall mounted split units.

LTC CATALYST FILTER

A mechanical filter intercepts aerosols and particles, purifies indoor air under room temperature and condition, catalyzes and decomposes up to 80% ammonia, hydrogen sulphyde and aldehyde. This filter is constant and can be used for long time without regeneration. It is water washable and the effect is the same after wash. Accessories for all wall mounted types of air conditioning.

CATECHIN FILTER SAF-OPWC

Catechin is a green tea extract, which is being added to the filters for its oxidizing and sterilizing effects. Active enzymes form a benzene nucleus which absorbs odors and harmful substances in the air. Catechins filter effectively captures and sterilizes dust particles. It is antibacterial and destroys more than 95% of bacteria, e.g., Staphylococcus aureus.

ACTIVE CARBON FILTER SAF-OPWA

Activated carbon is an excellent absorbent with capability of dual absorption: physical and chemical, as from air and from fluids. Quickly absorbs harmful gases, e.g., benzene, formaldehyde and ammonia.

PHOTOCATALYTIC FILTER SAF-OPWP

Photocatalytic filter reduces odors and germs via its ultraviolet light. Effectively purifies the air and keeps it fresh. Titan TiO2 contained in this filter has a strong photocatalytic effect, but it is also environmentally friendly. Removes from the air more than 90% of acetic acid, formaldehyde, ammonia and more than 70% of renewable pollutants.

SILVER ION FILTER SAF-OPWS

Silver ion filter is an entirely new kind of powerful sterilizing product. Silver ions are odorless and colorless and have no side effects, such as irritation, pollution or volatility. After sterilization the ions recycle themselves, therefore have a long lifespan and effectively prevent bacterial growth. The filter is also environmentally friendly and completely safe. It is highly efficient and destroys over 99% of the bacteria. Silver ions themselves attract bacteria and microorganisms, pass through the cell membrane and inhibit the cleavage activity of the bacteria. Disrupts DNA structure of bacteria and microorganisms, causing a loss of reproductive ability of bacteria.

BIOLOGICAL ANTI-BACTERIA FILTER SAF-OPWB

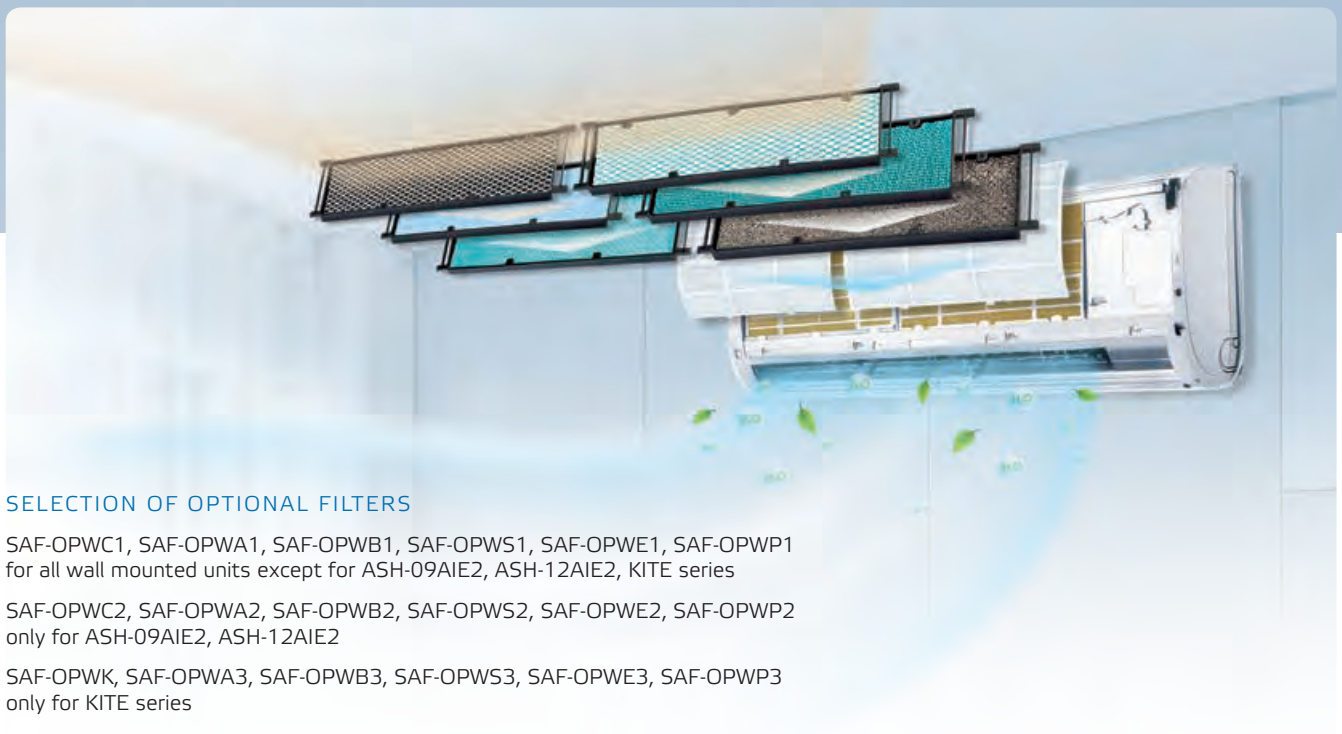
This filter is made of a material with excellent capabilities of sterilizing and capture of dust. When air flows through the filter, dust and bacteria are retained on the filter surface, which is bio-bactericidal. In case of attachment of microbes, bio-bactericidal surface disrupts its metabolism and limits its growth. Efficiency of capturing of Escherichia coli and Staphylococcus aureus is higher than 95%.

ELECTROSTATIC DEDUSTING FILTER SAF-OPWE

Using the technology of high static voltage, the dust passing through a filter charges (polarizes) and because of airflow and its quick motion is captured on electret fibers of the filter. This filter captures up to 85% impurities, which consist of various kinds of dust, smog and ultrafine particles (bigger than 0,1 μm).

COLD CATALYST FILTER SAF-OPWK

The basic material of the filter are PU polyurethane and various catalytic fibers. Effectively captures and removes formaldehyde and other volatile organic compounds (VOCs), as well as harmful gases and odors. The catalyst filter can remove up to 92,9% of formaldehyde from the air within 2,5 hours.



SELECTION OF OPTIONAL FILTERS

SAF-OPWC1, SAF-OPWA1, SAF-OPWB1, SAF-OPWS1, SAF-OPWE1, SAF-OPWP1
for all wall mounted units except for ASH-09AIE2, ASH-12AIE2, KITE series

SAF-OPWC2, SAF-OPWA2, SAF-OPWB2, SAF-OPWS2, SAF-OPWE2, SAF-OPWP2
only for ASH-09AIE2, ASH-12AIE2

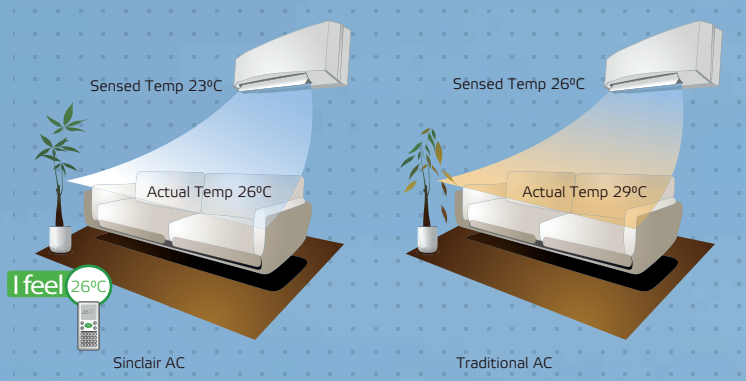
SAF-OPWK, SAF-OPWA3, SAF-OPWB3, SAF-OPWS3, SAF-OPWE3, SAF-OPWP3
only for KITE series

For availability, please, contact manufacturer.

OTHER ADVANTAGES OF SINCLAIR AIR CONDITIONERS

I FEEL

The mini sensor in the remote controller can sense its surrounding temperature, and transmit the signal back to the indoor unit. So the unit can adjust the air flow volume and temperature accordingly, to provide maximum comfort and save energy simultaneously.

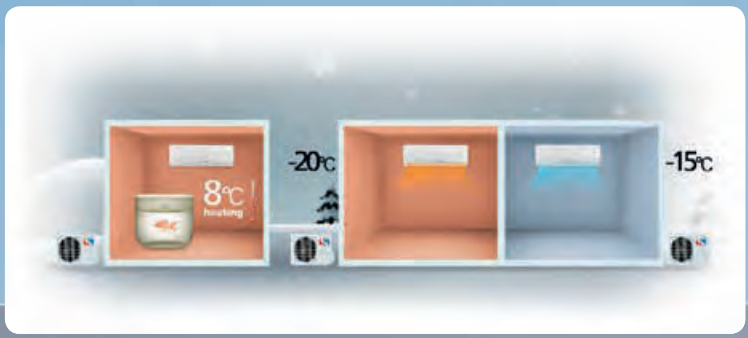


LOW AMBIENT FUNCTION

-18ºC COOLING
Cooling at -18ºC while keeping a reliable operation. As the outdoor temperature changes, the frequency of compressor and the speed of fan adjusts accordingly.

-30ºC HEATING
Operates finely when heating at -30ºC. It is supported by SINCLAIR electrical heating chasis, preheating technology and frequency-adjusting compressor.

8ºC HEATING
Mantains the room temperature steadily at 8ºC and prevent the room from freezing by heating operation when nobody is at home for long time.

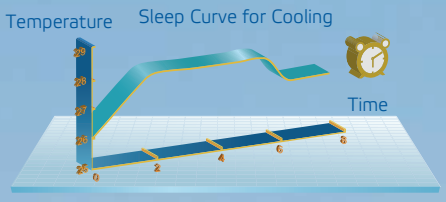


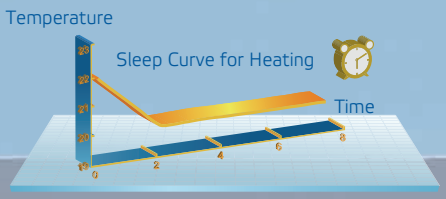
COLD AIR PREVENTION

The copper pipe will be heated in advance, so the air will not be flowed out before it reaches the set temperature.

COMFORTABLE SLEEP MODE

MODE 1: Indoor temperature automatically rises (when cooling) or drops (when heating).
MODE 2: Featuring unique refreshment function, the temperature is automatically adjusted to be a little lower before you wake up.
MODE 3: You may design your own sleep curve under DIY mode.





HIGH-QUALITY MOTOR

Adopting high-quality motor design enhances rust resistance and low noise operation thereby increases the life span of the motor.

HIGH CAPACITY OF DEHUMIDIFYING FUNCTION

High quality dehumidifying keeps air dry and comfortable.

SILENT OPERATION

When in silent mode the noise level is significantly decreased.

ENVIRONMENTALLY FRIENDLY

No usage of CFC-based refrigerant and no harm to environment.

FUNCTION DRYING

Dehumidifier enhances drying and protects clothes and furniture against getting damp and mildew during rainy periods.

ENERGY SAVING OPERATION

Low power consumption.

SYMBOLS USED IN THE CATALOGUE

- Anticorrosion treatment of exchangers
- Refrigerant
- Flexible adjusting lamels
- Diagnostic LED display
- "TURBO" button
- Intelligent defrosting
- Operation in the winter time
- Silent operation
- 3-D spiral fan
- 24-hour timer
- Clock display
- WIFI function
- Dehumidifying mode
- Automatic operation
- Compact design
- Auto clean
- Comfortable sleep mode
- Cold air prevention
- Self-diagnosis
- Auto-restart function
- Lock
- 8ºC heating
- I feel
- 7 fan speeds
- Fresh air ventilation
- Optional healthy filters

Note: Check the function of a particular model of air conditioner.

ROCKY SERIES

Solid as a rock

ASH-09AIR3
ASH-12AIR3

Energy class A+ / A+
3-year warranty
Easy clean panel
Standard filters-catechin SAF-OPWC1
and active carbon filter SAF-OPWA1
Dual side water outlet

YX1F

DC INVERTER

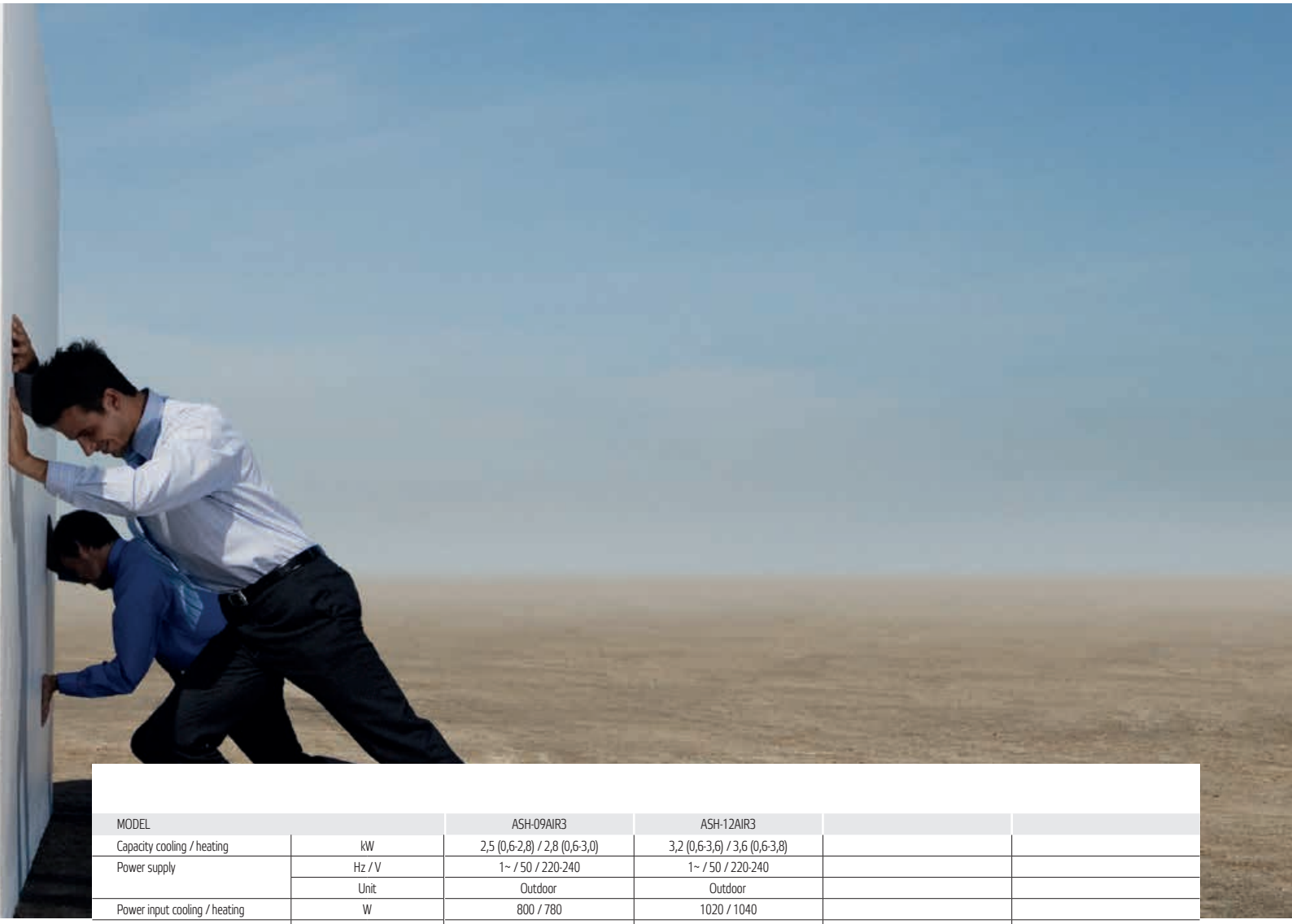
OPTIONAL ACCESSORIES

FILTERS

GSM MODULE
G2S

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

TECHNICAL PARAMETERS



MODEL			ASH-09AIR3	ASH-12AIR3		
Capacity cooling / heating	kW		2,5 (0,6-2,8) / 2,8 (0,6-3,0)	3,2 (0,6-3,6) / 3,6 (0,6-3,8)		
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240		
	Unit		Outdoor	Outdoor		
Power input cooling / heating	W		800 / 780	1020 / 1040		
Rated power input	W		1400	1500		
Power current cooling / heating	A		3,6 / 3,5	4,5 / 4,6		
Rated current	A		7,2	7,2		
SEER / SCOP			5,8 / 4,0	6,1 / 4,0		
Energy class Cooling/ Heating (average)			A+ / A+	A++ / A+		
Air flow	ID	m^3/h	500 / 400 / 300 / 250	500 / 400 / 300 / 250		
	OD	m^3/h	1600	2200		
Sound pressure level	ID	dB(A)	38/ 34/ 31/ 28	39/ 34/ 31/ 28		
	OD	dB(A)	50	52		
Dehumidifying volume	l/h		0,8	1,4		
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 0,70 / 1,46	R410A / 0,9 / 1,88		
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4		
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5		
Standard pipe length	m		5	5		
Min. / Max. pipe length	m		3 / 15	3 / 20		
Max. elevation / Drop height	m		10	10		
Additional refrigerant	g/m		20	20		
Dimension (w x h x d)	ID	mm	790x265x174	790x265x174		
	OD	mm	776x540x320	842x596x320		
Package dimension (w x h x d)	ID	mm	870x248x355	870x248x355		
	OD	mm	820x580x335	878x630x360		
Net/gross weight	ID	kg	8,5 / 10,0	8,5 / 10,0		
	OD	kg	27,0 / 29,0	29,0 / 32,0		
Set temperature range	ºC		16~30	16~30		
Operating temperature range	Cooling	ºC	-15~48	-15~48		
	Heating	ºC	-15~24	-15~24		
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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

ELEMENT SERIES

Affordable solution for your home

ASH-09AIE2
ASH-12AIE2
ASH-18AIE2
ASH-24AIE2

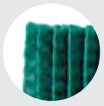
Energy class A+/A+
3-year warranty
Dual side water outlet
Comfortable sleep mode
Standard filters-catechin SAF-OPWC1,2
and Biological anti-bacteria SAF-OPWB1,2
High speed digital signal processor

YAA1FB1

PLASMA TEC DC INVERTER

OPTIONAL ACCESSORIES

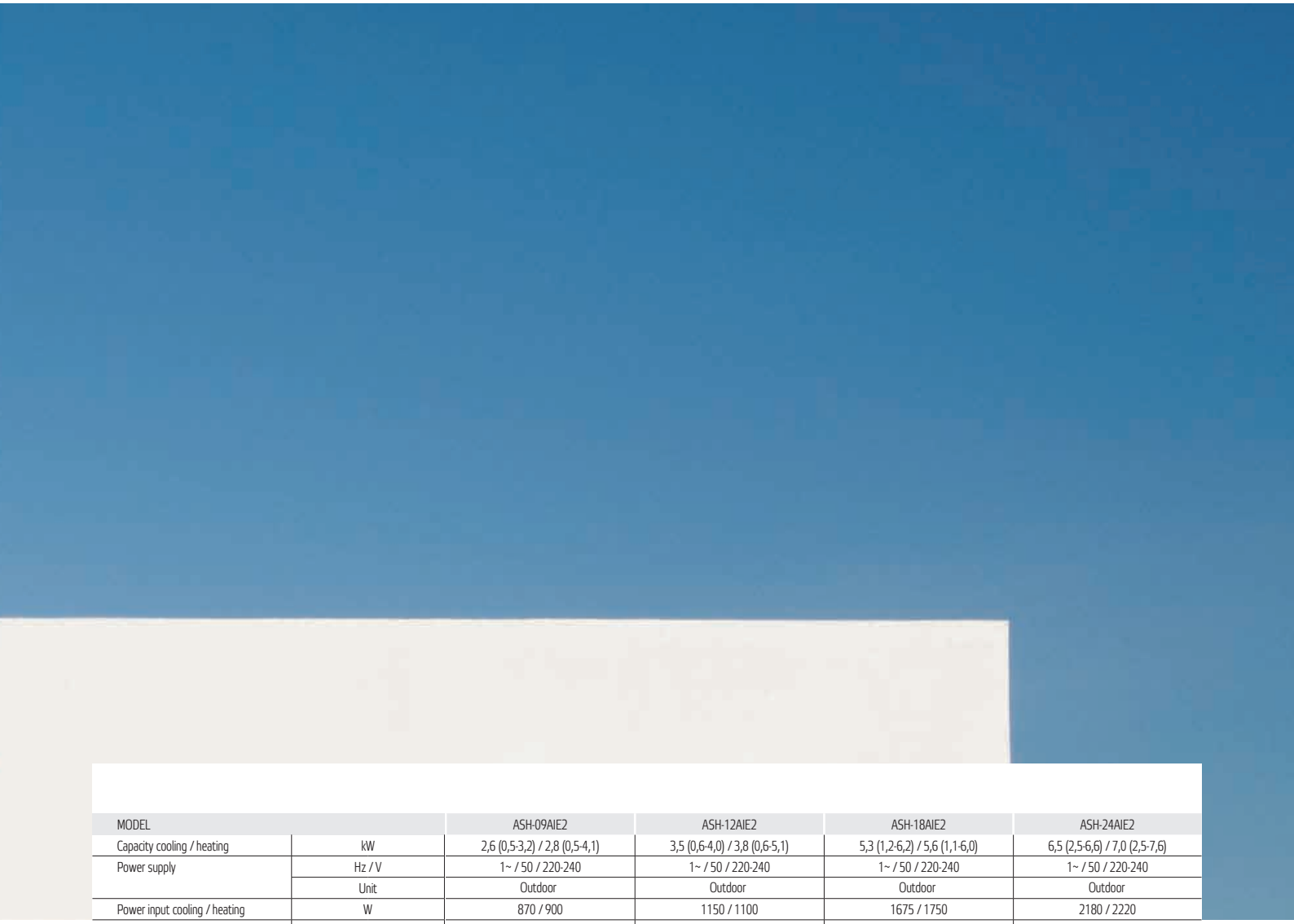
FILTERS



GSM MODULE G2S

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

TECHNICAL PARAMETERS



MODEL			ASH-09AIE2	ASH-12AIE2	ASH-18AIE2	ASH-24AIE2
Capacity cooling / heating	kW		2,6 (0,5-3,2) / 2,8 (0,5-4,1)	3,5 (0,6-4,0) / 3,8 (0,6-5,1)	5,3 (1,2-6,2) / 5,6 (1,1-6,0)	6,5 (2,5-6,6) / 7,0 (2,5-7,6)
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	Unit		Outdoor	Outdoor	Outdoor	Outdoor
Power input cooling / heating	W		870 / 900	1150 / 1100	1675 / 1750	2180 / 2220
Rated power input	W		1550	1650	2650	2800
Power current cooling / heating	A		3,8 / 4,0	5,1 / 4,9	7,4 / 7,8	9,7 / 10,5
Rated power current	A		6,9	7,3	11,8	12,5
SEER / SCOP			5,6 / 4,0	5,6 / 4,0	5,6 / 4,0	5,6 / 4,0
Energy class Cooling/ Heating (average)			A+ / A+	A+ / A+	A+ / A+	A+ / A+
Air flow	ID	m^3/h	600/ 520/ 370/ 280	680/ 560/ 410/ 300	800/ 680/ 560/ 460	1000/ 800/ 700/ 550
	OD	m^3/h	1600	1600	3200	4000
Sound pressure level	ID	dB(A)	41/ 38/ 30/ 24	42/ 39/ 31/ 25	49 / 44 /40 /35	51/ 47/ 42/ 39
	OD	dB(A)	51	53	55	58
Dehumidifying volume	l/h		0,8	1,4	1,8	2,1
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 0,70 / 1,46	R410A / 0,85 / 1,77	R410A / 1,30 / 2,71	R410A / 1,80 / 3,76
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	¼ / 6,4
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9
Standard pipe length	m		5	5	5	5
Min. / Max. pipe length	m		3 / 15	3 / 20	3 / 25	3 / 25
Max. elevation / Drop height	m		10	10	10	10
Additional refrigerant	g/m		20	20	20	50
Dimension (w x h x d)	ID	mm	770x283x201	770x283x201	865x305x215	1007x315x219
	OD	mm	776x540x320	776x540x320	963x700x396	1000x790x427
Package dimension (w x h x d)	ID	mm	847x345x276	847x345x276	948x383x310	1076x398x328
	OD	mm	851x595x363	851x595x363	1029x750x458	1083x855x488
Net/gross weight	ID	kg	8,0 / 9,5	9,0 / 10,5	12,0 / 15,0	14,0 / 17,0
	OD	kg	28,0 / 31,0	29,0 / 32,0	46,0 / 50,5	55,5 / 60,5
Set temperature range	°C		16~30	16~30	16~30	16~30
Operating temperature range	Cooling	°C	-15~43	-15~43	-15~43	-15~43
	Heating	°C	-20~24	-20~24	-20~24	-20~24
Optional healthy filters	Model		SAF-OPWC2, SAF-OPWA2, SAF-OPWB2, SAF-OPWS2, SAF-OPWE2, SAF-OPWP2		SAF-OPWC1, SAF-OPWA1, SAF-OPWB1, SAF-OPWS1, SAF-OPWE1, SAF-OPWP1	

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Length of connection pipe: 5m. Cooling: indoor temperature 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

ZOOM SERIES

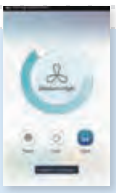
Powerful solution with stylish design

ASH-09AIZ
ASH-13AIZ
ASH-18AIZ
ASH-24AIZ

Energy class A++ / A+
3-year warranty
Standard filters-catechin SAF-OPWC1 and active carbon filter SAF-OPWA1
8ºC heating
"I FEEL" function
Standard inbuilt WiFi module
Cold plasma generator
Hidden display and IR receiver

YAA1FB1

WIFI



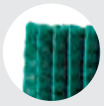
SMART

WIFI SMART APP

INDOOR UNIT HAS INBUILT WIFI MODULE TO CONTROL AIR CONDITIONER BY IOS OR ANDROID PHONE / TABLET.

OPTIONAL ACCESSORIES

FILTERS



GSM MODULE G2S

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

PLASMA TEC DC INVERTER

TECHNICAL PARAMETERS

MODEL			ASH-09AIZ	ASH-13AIZ	ASH-18AIZ	ASH-24AIZ
Capacity cooling / heating	kW		2,6 (0,5-3,2) / 2,8 (0,5-4,1)	3,5 (0,6-4,0) / 3,7 (0,6-5,1)	5,1 (1,3-6,6) / 5,3 (1,1-6,8)	6,7 (2,0-8,2) / 7,3 (2,0-8,5)
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	Unit		Outdoor	Outdoor	Outdoor	Outdoor
Power input cooling / heating	W		805 / 755	1084 / 989	1580 / 1410	1875 / 1945
Rated power input	W		1550	1650	2600	3800
Power current cooling / heating	A		3,7 / 3,4	5,2 / 5,0	7,0 / 6,3	8,3 / 8,6
Rated power current	A		6,9	7,3	11,5	16,9
SEER / SCOP			6,1 / 4,0	6,1 / 4,0	6,1 / 4,0	6,3 / 4,0
Energy class Cooling/ Heating (average)			A++ / A+	A++ / A+	A++ / A+	A++ / A+
Air flow	ID	m^3/h	560/ 490/ 430/ 330	660/ 540/ 460/ 330	800/ 720/ 610/ 520	1150/ 1050/ 950/ 850
	OD	m^3/h	1600	1600	3200	3200
Sound pressure level	ID	dB(A)	26/ 32/ 36/ 39	26/ 22/ 39/ 42	36/ 39/ 42/ 46	39/ 42/ 45/ 48
	OD	dB(A)	52	53	56	60
Dehumidifying volume	l/h		0,8	1,4	1,8	2,4
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 0,70 / 1,46	R410A / 0,85 / 1,77	R410A / 1,30 / 2,71	R410A / 1,90 / 3,97
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	¼ / 6,4
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9
Standard pipe length	m		5	5	5	5
Min. / Max. pipe length	m		3 / 19	3 / 20	3 / 25	3 / 25
Max. elevation / Drop height	m		10	10	10	10
Additional refrigerant	g/m		20	20	20	50
Dimension (w x h x d)	ID	mm	790x275x200	845x289x209	970x300x224	1078x325x246
	OD	mm	776x540x320	776x540x320	955x700x396	955x700x396
Package dimension (w x h x d)	ID	mm	866x367x271	921x281x379	1041x383x320	1148×413×350
	OD	mm	851x595x363	851x595x363	1029x750x458	1029x750x458
Net/gross weight	ID	kg	9,0 / 11,0	10,0 / 12,0	13,5 / 16,5	17,0 / 20,5
	OD	kg	28,0 / 31,0	29,0 / 32,0	45,0 / 49,5	53,0 / 57,5
Set temperature range	°C		16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30
Operating temperature range	Cooling	°C	-15 ~ 43	-15 ~ 43	-15 ~ 43	-15 ~ 43
	Heating	°C	-22 ~ 24	-22 ~ 24	-22 ~ 24	-22 ~ 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.

KITE SERIES

From the top of the world

ASH-09AIK
ASH-13AIK
ASH-18AIK
ASH-24AIK

Energy class A++ / A+
3-year warranty
R410a environmentally friendly
Easy removable dust filter
Hidden display and IR receiver
Optional WiFi, wired controller
Optional alarm port, on/off port
Easy installation and maintenance with all compact front panel
Standard filter - carbon SAF-OPWK

DC INVERTER

RG57A

WIFI

NETHOME PLUS APP

WIFI MODULE SWM-01 CAN BE INBUILD TO THE INDOOR UNIT, WITH WHICH THE AIR CONDITIONER CAN BE CONTROLLED BY IOS OR ANDROID PHONE / TABLET.

OPTIONAL ACCESSORIES

KJR-120G

KJR-12B

SWM-01

SPB-01, SPB-02

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

TECHNICAL PARAMETERS

MODEL			ASH-09AIK	ASH-13AIK	ASH-18AIK	ASH-24AIK
Capacity cooling / heating	kW		2,6 (1,2-3,3) / 2,9 (0,8-3,7)	3,5 (1,3-4,5) / 3,8 (1,1-4,9)	5,3 (1,9-6,1) / 5,6 (1,4-6,7)	7,0 (2,7-7,9) / 7,6 (2,1-9,1)
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	Unit		Outdoor	Outdoor	Outdoor	Outdoor
Power input cooling / heating	W		816 / 811	1153 / 1055	1633 / 1500	2306 / 2302
Rated power input	W		2075	2200	2550	3700
Power current cooling / heating	A		3,5 / 3,5	5,0 / 4,6	7,1 / 6,5	10,0 / 10,0
Rated power current	A		9,5	10,0	11,5	17,0
SEER / SCOP			6,8 / 4,1	6,7 / 4,2	6,8 / 4,2	6,4 / 4,0
Energy class Cooling/ Heating (average)			A++ / A+	A++ / A+	A++ / A+	A++ / A+
Air flow	ID	m^3/h	472/ 360/ 254	563/ 497/ 224	870/ 730/ 500	1176/ 921/ 446
	OD	m^3/h	1900	2000	2100	2700
Sound pressure level	ID	dB(A)	20/ 28/ 35/ 40	24/ 33/ 40/ 41	27/ 34/ 43/ 45	28/ 35/ 45/ 47
	OD	dB(A)	55	56	58	61
Dehumidifying volume	l/h		1,0	1,2	1,7	2,3
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 0,80 / 1,67	R410A / 0,95 / 1,98	R410A / 1,48 / 3,09	R410A / 2,00 / 4,18
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	⅜ / 9,5
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9
Standard pipe length	m		5	5	5	5
Min. / Max. pipe length	m		3 / 25	3 / 25	3 / 30	3 / 50
Max. elevation / Drop height	m		10	10	20	25
Additional refrigerant	g/m		15	15	15	30
Dimension (w x h x d)	ID	mm	716x300x193	804x300x193	964x325x222	1106x342x232
	OD	mm	770x555x300	800x554x333	800x554x333	845x702x363
Package dimension (w x h x d)	ID	mm	785x375x285	875x375x285	1045x405x305	1195x420x315
	OD	mm	900x585x345	920x615x390	920x615x390	965x755x395
Net/gross weight	ID	kg	7,0 / 9,3	7,7 / 10,2	10,1 / 13,6	13,2 / 17,0
	OD	kg	26,6 / 29,0	29,1 / 31,9	37,8 / 40,5	48,4 / 51,6
Set temperature range	°C		17 ~ 32	17 ~ 32	17 ~ 32	17 ~ 32
Operating temperature range	Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating	°C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30
Optional healthy filters	Model		SAF-OPWK, SAF-OPWA3, SAF-OPWB3, SAF-OPWS3, SAF-OPWE3, SAF-OPWP3			

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.

FOCUS SERIES

Focus on the future

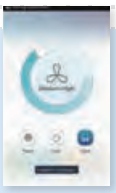
NEW

ASH-09BIF
ASH-13BIF
ASH-18BIF
ASH-24BIF

Energy class A++ / A+
3-year warranty
New ecofriendly refrigerant R32
Standard WiFi control (Smart application)
Standard filters-catechin SAF-OPWC1 and active carbon filter SAF-OPWA1
Cold plasma generator
Optional wired controller SWC-02 with weekly timer
Modern design of wired controller

YAN1F1

WIFI



SMART

WIFI SMART APP

INDOOR UNIT HAS INBUILT WIFI MODULE TO CONTROL AIR CONDITIONER BY IOS OR ANDROID PHONE / TABLET.

OPTIONAL ACCESSORIES

FILTERS

SWC-02

GSM MODULE G2S

SCC-16

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

DC INVERTER

TECHNICAL PARAMETERS

MODEL			ASH-09BIF	ASH-13BIF	ASH-18BIF	ASH-24BIF
Capacity cooling / heating	kW		2,6 / 2,8	3,5 / 3,7	5,1 / 5,3	6,5 / 6,5
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	Unit		Outdoor	Outdoor	Outdoor	Outdoor
Power input cooling / heating	W		805 / 755	1085 / 990	1580 / 1420	1950 / 1735
Rated power input	W		1500	1500	2300	3100
Power current cooling / heating	A		3,9 / 3,4	5,0 / 4,5	7,0 / 6,3	8,4 / 8,0
Rated power current	A		6,3	7,2	10,8	13,0
SEER / SCOP			6,1 / 4,0	6,1 / 4,0	6,1 / 4,0	6,3 / 4,0
Energy class Cooling/ Heating (average)			A++ /A+	A++ /A+	A++ /A+	A++ /A+
Air flow	ID	m^3/h	560 /490 / 430 / 330	680 / 590 / 490 / 420	850 / 720 / 610 / 520	1250 / 1050 / 950 / 850
	OD	m^3/h	1600	2200	2400	3200
Sound pressure level	ID	dB(A)	39 / 36 / 32 / 28	42 / 38 / 34 / 31	49 / 44 / 39 / 34	49 / 44 / 41 / 39
	OD	dB(A)	52	53	56	58
Dehumidifying volume	l/h		0,8	1,4	1,8	2,0
Refrigerant type / charge	Type / kg / t eq.CO_2		R32 /0,6 / 0,41	R32 / 0,7 / 0,47	R32 / 0,9 / 0,61	R32 / 1,7 / 1,15
Additional refrigerant	g / m		20	20	25	50
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	¼ / 6,4
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9
Standard pipe length	m		5	5	5	5
Min. / Max. pipe length	m		3 / 15	3 / 20	3 / 25	3 / 25
Max. elevation / Drop height	m		10	10	10	10
Dimension (w x h x d)	ID	mm	790x275x200	845x289x209	970x300x224	1078x325x246
	OD	mm	776x540x320	848x596x320	899x596x378	955x700x396
Package dimension (w x h x d)	ID	mm	866x271x367	921x281x379	1041x383x320	1148x413x350
	OD	mm	823x358x595	881x363x645	948x420x645	1029x458x750
Net/gross weight	ID	kg	9,0 / 11,0	10,5 / 12,5	13,5 / 16,5	16,5 / 20,0
	OD	kg	29,5 / 32,0	31,0 / 34,0	39,0 / 42,0	52,5 / 57,0
Set temperature range	°C		16~30	16~30	16~30	16~30
Operating temperature range	Cooling	°C	-15~43	-15~43	-15~43	-15~43
	Heating	°C	-22~24	-22~24	-22~24	-22~24
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.

ARCTIC SERIES

HEATING TILL -30ºC

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 -18ºC to 54ºC outdoor temperature
Heating from -30ºC to 24ºC outdoor temperature
Radio controlled (RC) remote controller

SAA1FB1

WIFI

WIFI SMART APP

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

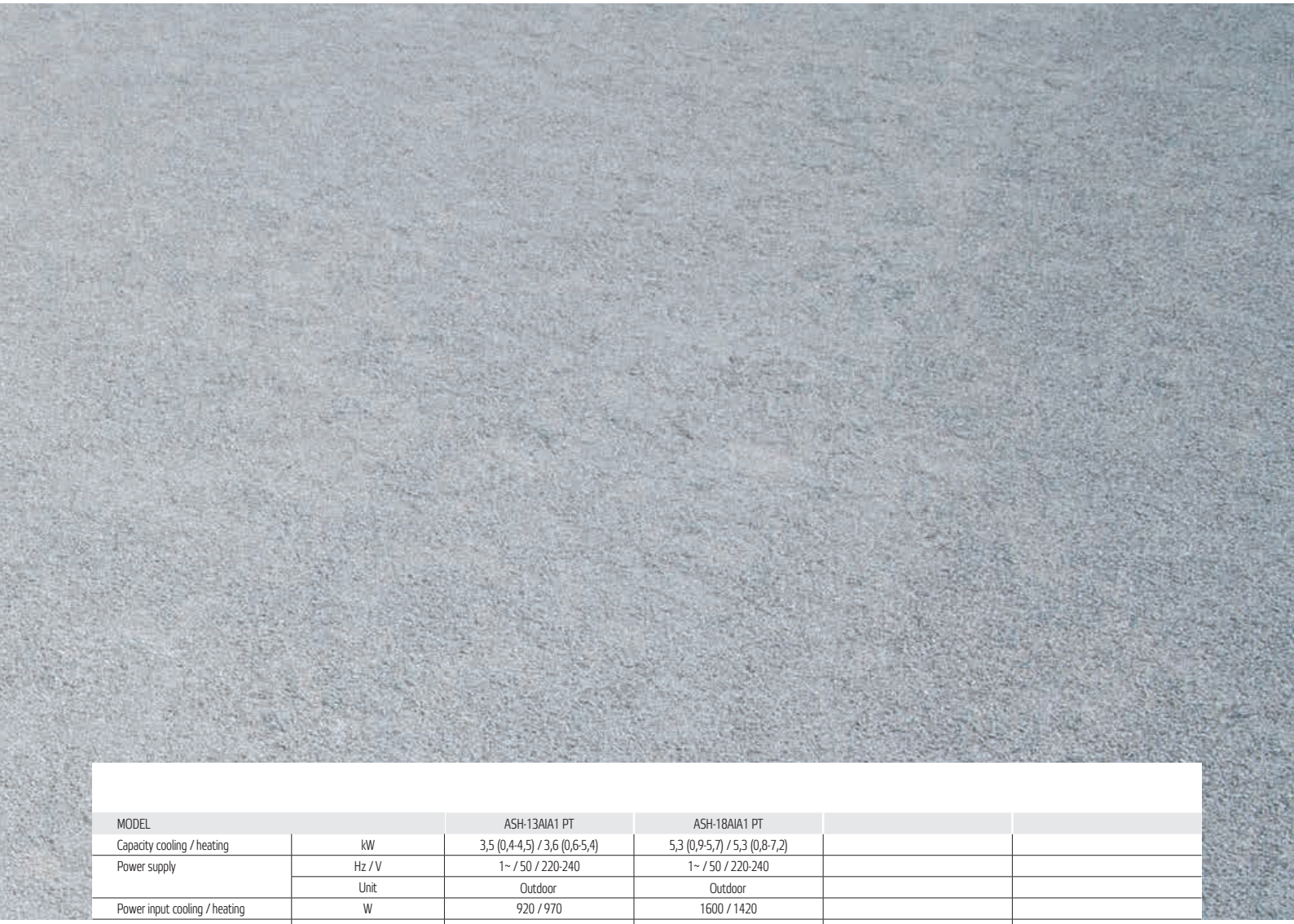
OPTIONAL ACCESSORIES

FILTERS

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

PLASMA TEC DC INVERTER

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	m^3/h	720/ 550/ 490/ 420/ 370/ 320/ 290	850/ 750/ 650/ 600/ 500/ 400/ 340		
	OD	m^3/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_2		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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

CONSOLE SERIES

NEW

ASP-09AI
ASP-12AI
ASP-18AI

Energy class A++ / A+
3-year warranty
Cold plasma generator
Low cooling/low heating
Optional WiFi control
Optional wired controller SWC-02
with weekly timer

YAA1FB8

WIFI

SMART

WIFI SMART APP

WIFI MODULE SWM-02 CAN BE BUILD IN TO INDOOR UNIT TO CONTROL AIR CONDITIONER BY IOS OR ANDROID PHONE / TABLET.

DC INVERTER

OPTIONAL ACCESSORIES

FILTERS

SWC-02

SWM-02

SCC-16

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

TECHNICAL PARAMETERS

MODEL			ASP-09AI	ASP-12AI	ASP-18AI
Capacity cooling / heating	kW		2,7 / 2,8	3,5 / 3,8	5,2 / 5,3
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	Unit		Outdoor	Outdoor	Outdoor
Power input cooling / heating	W		735 / 745	1100 / 1000	1500 / 1600
Rated power input	W		1400	1600	2500
Power current cooling / heating	A		3,45 / 3,40	4,8 / 4,3	7,1 / 6,7
Rated power current	A		5,85	5,90	10,9
SEER / SCOP			6,5 / 4,0	6,4 / 4,0	6,5 / 4,1
Energy class Cooling/ Heating (average)			A++ /A+	A++ /A+	A++ /A+
Air flow	ID	m^3/h	500 / 430 / 410 / 370 / 330 / 280 / 250	600 / 520 / 480 / 440 / 400 / 360 / 280	700 / 650 / 580 / 520 / 460 / 410 / 320
	OD	m^3/h	1600	1600	3200
Sound pressure level	ID	dB(A)	40 / 36 / 34 / 32 / 30 / 26 / 23	42 / 40 / 38 / 36 / 34 / 31 / 25	47 / 45 / 42 / 40 / 37 / 35 / 31
	OD	dB(A)	52	52	57
Dehumidifying volume	l/h		0,8	1,2	1,8
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 0,9 / 1,88	R410A / 0,95 / 1,98	R410A / 1,3 / 2,71
Pipe diameter	Liquid side	inch / mm	20	20	20
	Gas side	inch / mm	¼ / 6	¼ / 6	¼ / 6
Standard pipe length	m		⅜ / 9,5	⅜ / 9,5	½ / 12
Min. / Max. pipe length	m		5	5	5
Max. elevation / Drop height	m		3 / 15	3 / 20	3 / 25
Additional refrigerant	g/m		10	10	10
Dimension (w x h x d)	ID	mm	700x215x600	700x215x600	700x215x600
	OD	mm	776x540x320	776x540x320	955x700x396
Package dimension (w x h x d)	ID	mm	788x283x685	785x280x682	788×283×697
	OD	mm	823x358x595	823x358x595	1026x455x735
Net/gross weight	ID	kg	15,5 / 18,5	15,5 / 18,5	15,5 / 18,5
	OD	kg	31,0 / 33,6	31,5 / 34,0	46,0 / 50,5
Set temperature range	°C		16~30	16~30	16~30
Operating temperature range	Cooling	°C	-15~43	-15~43	-15~43
	Heating	°C	-22~24	-22~24	-22~24

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

NEW UNI DC INVERTER SERIES

ASF-XXAIN

ASF-09AIN ASF-36AIN
ASF-12AIN ASF-42AIN
ASF-18AIN ASF-48AIN
ASF-24AIN ASF-60AIN

Anticorrosion treatment of exchangers
3-year warranty | Autorestart function
Silent operation | Automatic defrost mode
Standard remote/wired controller
Alarm indication port on main board
Service settings through wired controller

XK60

YB1FA

ASGE-XXAIN WK

YOU SHOULD COMBINE INDOOR UNITS ASF-XXAIN WITH SAME CAPACITY OUTDOOR UNIT ASGE-XXAIN WK OR ASGE-XXAIN-3 WK.

Blue Fin R410A

DC INVERTER

OPTIONAL ACCESSORIES

SCMI-01

FMD-01

SCC-16

SDM-01

G2S

TECHNICAL PARAMETERS

MODEL-ID			ASF-09AIN	ASF-12AIN	ASF-18AIN	ASF-24AIN	ASF-36AIN
MODEL-OD			ASGE-09AIN WK	ASGE-12AIN WK	ASGE-18AIN WK	ASGE-24AIN WK	ASGE-36AIN WK
Capacity cooling / heating	kW		2,7 (0,8-3,5) / 2,9 (0,8-3,8)	3,5 (0,9-3,9) / 3,8 (0,9-4,1)	5,0 (1,6-5,8) / 5,6 (1,4-6,8)	7,0 (2,4-8,2) / 8,0 (2,4-9,0)	10,0 (3,2-11,5) / 12,0 (2,9-14,5)
Power supply	ID	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	OD	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Power input cooling / heating	W		840 / 800	1090 / 1050	1550 / 1550	2180 / 2210	3200 / 3400
Current cooling / heating	A		3,9 / 3,7	5,0 / 4,9	7,2 / 7,2	10,10 / 10,20	15,00 / 15,80
SEER / SCOP			6,1 / 3,8	6,1 / 4,0	6,1 / 4,0	5,6 / 4,0	6,1 / 4,0
Energy class Cooling/ Heating (average)			A++ / A	A++ / A+	A++ / A+	A+ / A+	A++ / A+
Air flow	ID	m^3/h	600 / 550 / 450	700 / 600 / 500	1000 / 900 / 800	1200 / 1000 / 900	1900 / 1630 / 1520
	OD	m^3/h	1800	1800	3200	4000	5100
Sound pressure level	ID	dB(A)	37 / 35 / 32 / 28	40 / 38 / 35 / 31	44 / 42 / 38 / 32	49 / 48 / 46 / 40	54 / 53 / 51 / 46
	OD	dB(A)	52	52	56	57	63
Dehumidifying volume	l/h		0,9	1,2	1,6	2,1	3,2
Refrigerant	Type / kg / t eq.CO_2		R410A / 1,2 / 2,51	R410A / 1,2 / 2,51	R410A / 1,4 / 2,92	R410A / 2,2 / 4,59	R410A / 3,5 / 7,31
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	⅜ / 9,5	⅜ / 9,5
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9	⅝ / 15,9
Max. pipe length	m		20	20	20	30	30
Max. elevation / Drop height	m		15	15	15	15	15
Standard pipe length	m		7	7	7	7	7
Additional refrigerant	g/m		30	30	30	60	60
Dimension (w x h x d)	ID	mm	1220x700x225	1220x700x225	1220x700x225	1220x700x225	1420x700x245
	OD	mm	850x540x320	850x540x320	955x700x395	980x790x425	1105x1100x440
Package dimension (w x h x d)	ID	mm	1343x823x315	1343x823x315	1343x823x315	1343x823x315	1548x828x345
	OD	mm	881x595x363	881x595x363	1029x750x458	1083x855x488	1158x1236x493
Net/ gross weight	ID	kg	38,0 / 47,0	39,0 / 48,0	39,0 / 48,0	40,0 / 50,0	48,0 / 56,0
	OD	kg	34,0 / 37,0	34,0 / 37,0	47,0 / 50,0	67,0 / 72,0	92,0 / 100,0
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24

MODEL-ID			ASF-36AIN	ASF-42AIN	ASF-48AIN	ASF-60AIN	
MODEL-OD			ASGE-36AIN-3 WK	ASGE-42AIN-3 WK	ASGE-48AIN-3 WK	ASGE-60AIN-3 WK	
Capacity cooling / heating	kW		10,0 (3,2-11,5) / 12,0 (2,9-14,5)	11,5 (3,6-12,5) / 13,5 (3,9-15,5)	14,0 (6,0-14,8) / 16,0 (5,2-18,0)	16,0 (7,4-16,5) / 17,0 (6,2-18,5)	
Power supply	ID	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
	OD	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	
Power input cooling / heating	W		3200 / 3400	3900 / 3700	4800 / 4300	5700 / 4600	
Current cooling / heating	A		4,9 / 4,6	5,2 / 5,1	6,2 / 6,5	7,4 / 7,2	
SEER / SCOP			6,1 / 4,0	5,6 / 4,0	5,6 / 4,0	5,1 / 4,0	
Energy class Cooling/ Heating (average)			A++ / A+	A+ / A+	A+ / A+	A / A+	
Air flow	ID	m^3/h	1900 / 1630 / 1520	1900 / 1630 / 1520	2300 / 2100 / 1900	2500 / 2100 / 1900	
	OD	m^3/h	5100	6600	6600	8800	
Sound pressure level	ID	dB(A)	54 / 53 / 51 / 46	55 / 54 / 52 / 47	57 / 55 / 50 / 46	58 / 56 / 51 / 46	
	OD	dB(A)	63	64	64	68	
Dehumidifying volume	l/h		3,2	3,4	4,2	4,8	
Refrigerant	Type / kg / t eq.CO_2		R410A / 3,5 / 7,31	R410A / 3,7 / 7,72	R410A / 4,0 / 8,35	R410A / 5,0 / 10,44	
Pipe diameter	Liquid side	inch / mm	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	
	Gas side	inch / mm	⅝ / 15,9	⅝ / 15,9	⅝ / 15,9	¾ / 19,1	
Max. pipe length	m		30	30	50	50	
Max. elevation / Drop height	m		15	15	30	30	
Standard pipe length	m		7	7	7	7	
Additional refrigerant	g/m		60	60	60	60	
Dimension (w x h x d)	ID	mm	1420x700x245	1420x700x245	1700x700x245	1700x700x245	
	OD	mm	1105x1100x440	960x1350x410	960x1350x410	1085x1365x425	
Package dimension (w x h x d)	ID	mm	1548x828x345	1548x828x345	1828x828x345	1828x828x345	
	OD	mm	1158x1236x493	1043x1500x453	1043x1500x453	1143x1505x478	
Net/ gross weight	ID	kg	48,0 / 56,0	50,0 / 58,0	59,0 / 68,0	59,0 / 68,0	
	OD	kg	98,0 / 106,0	108,0 / 118,0	114,0 / 124,0	126,0 / 138,0	
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

NEW UNI DC INVERTER SERIES

ASC-XXAIN

ASC-12AIN ASC-42AIN
ASC-18AIN ASC-48AIN
ASC-24AIN ASC-60AIN
ASC-36AIN

Anticorrosion treatment of exchangers
3-year warranty | Autorestart function
3-D spiral fan | Standard water pump
Fresh air supply | Automatic defrost mode
Standard remote/wired controller
Alarm indication port on main board
Service settings through wired controller

XK60

YB1FA

ASGE-XXAIN WK

YOU SHOULD COMBINE INDOOR UNITS ASC-XXAIN WITH SAME CAPACITY OUTDOOR UNIT ASGE-XXAIN WK OR ASGE-XXAIN-3 WK.

DC INVERTER

OPTIONAL ACCESSORIES

SCMI-01

FMD-01

SCC-16

SDM-01

G2S

TECHNICAL PARAMETERS

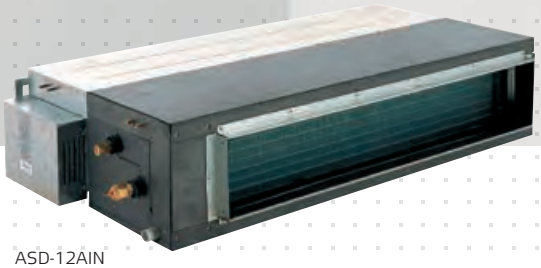
MODEL-ID			ASC-12AIN	ASC-18AIN	ASC-24AIN	ASC-36AIN
MODEL-OD			ASGE-12AIN WK	ASGE-18AIN WK	ASGE-24AIN WK	ASGE-36AIN WK
Capacity cooling / heating	kW		3,5 (0,9-3,9) / 3,8 (0,9-4,1)	5,0 (1,6-5,8) / 5,5 (1,4-6,5)	7,0 (2,4-8,5) / 8,0 (2,4-9,5)	10,0 (3,2-11,5) / 12,0 (2,9-14,5)
Power supply	ID	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	OD	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Power input cooling / heating	W		1090 / 1050	1550 / 1640	2180 / 2210	3200 / 3500
Current cooling / heating	A		5,0 / 4,9	7,2 / 7,6	10,1 / 10,2	15,0 / 16,2
SEER / SCOP			5,6 / 4,0	5,6 / 3,8	6,1 / 4,0	6,1 / 4,0
Energy class Cooling/ Heating (average)			A+ / A+	A+ / A	A++ / A+	A++ / A+
Air flow	ID	m^3/h	700	760	1300	1860
	OD	m^3/h	1800	3200	4000	5100
Sound pressure level	ID	dB(A)	46 / 45 / 43 / 37	47 / 46 / 44 / 37	47 / 46 / 42 / 38	51 / 49 / 46 / 43
	OD	dB(A)	52	56	57	63
Dehumidifying volume	l/h		1,2	1,8	2,4	3,4
Refrigerant	Type / kg / t eq.CO_2		R410A / 1,2 / 2,51	R410A / 1,4 / 2,92	R410A / 2,2 / 4,59	R410A / 3,5 / 7,31
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	⅜ / 9,5	⅜ / 9,5
	Gas side	inch / mm	⅜ / 9,5	½ / 12,7	⅝ / 15,9	⅝ / 15,9
Max. pipe length	m		20	20	30	30
Max. elevation / Drop height	m		15	15	15	15
Standard pipe length	m		7	7	7	7
Additional refrigerant	g/m		30	30	60	60
Dimension (w x h x d)	ID	mm	595x595x240	595x595x240	840x840x240	840x840x320
	OD	mm	850x540x320	955x700x395	980x790x425	1105x1100x440
	Panel	mm	650x50x650	650x50x650	950x60x950	950x60x950
Package dimension (w x h x d)	ID	mm	773x300x733	773x300x733	963x325x963	963x409x963
	OD	mm	881x595x363	1029x750x458	1083x855x488	1158x1236x493
	Panel	mm	763x105x763	763x105x763	1028x130x1043	1028x130x1043
Net/ gross weight	ID	kg	20 ,0 / 24,0	20,0 / 24,0	26,0 / 32,0	31,0 / 38,0
	OD	kg	34,0 / 37,0	47,0 / 50,0	67,0 / 72,0	92,0 / 100,0
	Panel	kg	3,5 / 5,0	3,5 / 5,0	7,0 / 11,0	7,0 / 11,0
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24

MODEL-ID			ASC-36AIN	ASC-42AIN	ASC-48AIN	ASC-60AIN
MODEL-OD			ASGE-36AIN-3 WK	ASGE-42AIN-3 WK	ASGE-48AIN-3 WK	ASGE-60AIN-3 WK
Capacity cooling / heating	kW		10,0 (3,2-11,5) / 12,0 (2,9-14,5)	11,0 (3,3-12,0) / 12,5 (3,6-15,0)	14,0 (6,0-14,8) / 16,0 (5,2-18,0)	16,0 (7,4-16,5) / 16,5 (6,2-18,5)
Power supply	ID	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	OD	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415
Power input cooling / heating	W		3200 / 3500	3900 / 3800	4600 / 4500	5700 / 4600
Current cooling / heating	A		5,4 / 5,8	6,7 / 6,6	8,9 / 7,8	9,8 / 8,2
SEER / SCOP			6,1 / 4,0	6,1 / 4,0	5,6 / 3,8	6,1 / 4,0
Energy class Cooling/ Heating (average)			A++ / A+	A++ / A+	A+ / A	A++ / A+
Air flow	ID	m^3/h	1860	1860	2300	2400
	OD	m^3/h	5100	6600	6600	8800
Sound pressure level	ID	dB(A)	51 / 49 / 46 / 43	51 / 49 / 46 / 43	53 / 52 / 47 / 41	54 / 53 / 47 / 41
	OD	dB(A)	63	64	64	68
Dehumidifying volume	l/h		3,4	3,7	4,5	5
Refrigerant	Type / kg / t eq.CO_2		R410A / 3,5 / 7,31	R410A / 3,7 / 7,72	R410A / 4,0 / 8,35	R410A / 5,0 / 10,44
Pipe diameter	Liquid side	inch / mm	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5
	Gas side	inch / mm	⅝ / 15,9	⅝ / 15,9	⅝ / 15,9	¾ / 19,1
Max. pipe length	m		30	30	50	50
Max. elevation / Drop height	m		15	15	30	30
Standard pipe length	m		7	7	7	7
Additional refrigerant	g/m		60	60	60	60
Dimension (w x h x d)	ID	mm	840x840x320	840x840x320	910x910x290	910x910x290
	OD	mm	1105x1100x440	960x1350x410	960x1350x410	1085x1365x425
	Panel	mm	950x60x950	950x60x950	1040x65x1040	1040x65x1040
Package dimension (w x h x d)	ID	mm	963x409x963	963x409x963	1023x375x993	1023x375x993
	OD	mm	1158x1236x493	1043x1500x453	1043x1500x453	1143x1505x478
	Panel	mm	1028x130x1043	1028x130x1043	1137x140x1137	1137x140x1137
Net/ gross weight	ID	kg	31,0 / 38,0	31,0 / 38,0	43,0 / 50,0	43,0 / 50,0
	OD	kg	98,0 / 106,0	108,0 / 118,0	114,0 / 124,0	126,0 / 138,0
	Panel	kg	7,0 / 11,0	7,0 / 11,0	8,0/ 12,0	8,0/ 12,0
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

NEW UNI DC INVERTER SERIES

ASD-60AIN



ASD-12AIN

ASD-09AIN ASD-36AIN
ASD-12AIN ASD-42AIN
ASD-18AIN ASD-48AIN
ASD-24AIN ASD-60AIN

Anticorrosion treatment of exchangers
3-year warranty | Autorestart function
Standard water pump
Optional display board SND-01
Automatic defrost mode
Standard remote/wired controller
Alarm indication port on main board
Service settings through wired controller

XK60

YB1FA

ASGE-XXAIN WK

YOU SHOULD COMBINE INDOOR UNITS ASD-XXAIN WITH SAME CAPACITY OUTDOOR UNIT ASGE-XXAIN WK OR ASGE-XXAIN-3 WK.

DC INVERTER

OPTIONAL ACCESSORIES

SCMI-01 FMD-01 SCC-16 SDM-01 G2S SND-01

TECHNICAL PARAMETERS

MODEL-ID MODEL-OD			ASD-09AIN ASGE-09AIN WK	ASD-12AIN ASGE-12AIN WK	ASD-18AIN ASGE-18AIN WK	ASD-24AIN ASGE-24AIN WK	ASD-36AIN ASGE-36AIN WK
Capacity cooling / heating	kW		2,7 (0,8-3,4) / 2,9 (0,8-3,7)	3,5 (0,9-3,7) / 3,8 (0,9-4,1)	5,0 (1,6-5,5) / 5,6 (1,4-6,8)	7,0 (2,2-8,5) / 8,0 (2,4-9,5)	10,0 (3,2-11,5) / 12,0 (2,9-14,5)
Power supply	ID	Hz / V	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1
	OD	Hz / V	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1
Power input cooling / heating - OD	W		840 / 800	1170 / 1050	1600 / 1580	2180 / 2210	3200 / 3400
Current cooling / heating - OD	A		3,9 / 3,7	5,0 / 4,9	7,2 / 7,2	10,1 / 10,2	15,0 / 15,8
SEER / SCOP			5,6 / 3,8	5,6 / 4,0	5,6 / 3,8	6,1 / 4,0	5,6 / 4,0
Energy class Cooling/ Heating (average)			A+ / A	A+ / A+	A+ / A	A++ / A+	A+ / A+
Air flow	ID	m^3/h	650	750	1000	1400	2100
	OD	m^3/h	1800	1800	3200	4000	5100
Sound pressure level	ID	dB(A)	36 / 35 / 33 / 28	37 / 36 / 34 / 28	40 / 39 / 36 / 28	47 / 46 / 44 / 40	53 / 52 / 48 / 44
	OD	dB(A)	52	52	56	57	63
Dehumidifying volume	l/h		0,7	0,9	1,4	1,9	2,7
External static pressure - rated / range	Pa		25 / 0-30	25 / 0-30	25 / 0-30	25 / 0-100	37 / 0-150
Refrigerant	Type / kg / t eq.CO_2		R410A / 1,2 / 2,51	R410A / 1,2 / 2,51	R410A / 1,4 / 2,92	R410A / 2,2 / 4,59	R410A / 3,5 / 7,31
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	⅜ / 9,5	⅜ / 9,5
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9	⅝ / 15,9
Max. pipe length	m		20	20	20	30	30
Max. elevation / Drop height	m		15	15	15	15	15
Standard pipe length	m		7	7	7	7	7
Additional refrigerant	g/m		30	30	30	60	60
Dimension (w x h x d)	ID	mm	925x250x665	1035x265x720	1035x265x720	1280x270x560	1225x290x775
	OD	mm	850x540x320	850x540x320	955x700x395	980x790x425	1105x1100x440
Package dimension (w x h x d)	ID	mm	1023x320x748	1123x323x798	1123x323x798	1348x283x597	1338x305x877
	OD	mm	881x595x363	881x595x363	1029x750x458	1083x855x488	1158x1236x493
Net/ gross weight	ID	kg	26,0 / 32,0	33,0 / 38,0	33,0 / 38,0	34,0 / 39,0	46,0 / 53,0
	OD	kg	34,0 / 37,0	34,0 / 37,0	47,0 / 50,0	67,0 / 72,0	92,0 / 100,0
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24

MODEL-ID MODEL-OD			ASD-36AIN ASGE-36AIN-3 WK	ASD-42AIN ASGE-42AIN-3 WK	ASD-48AIN ASGE-48AIN-3 WK	ASD-60AIN ASGE-60AIN-3 WK	
Capacity cooling / heating	kW		10,0 (3,2-11,5) / 12,0 (2,9-14,5)	11,5 (3,6-12,5) / 13,5 (3,9-15,5)	14,0 (6,0-14,5) / 15,5 (5,2-17,0)	16,0 (7,4-16,5) / 16,5 (6,2-18,5)	
Power supply	ID	Hz / V	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1	220-240 / 50 / 1	
	OD	Hz / V	380-415 / 50 / 3	380-415 / 50 / 3	380-415 / 50 / 3	380-415 / 50 / 3	
Power input cooling / heating - OD	W		3200 / 3400	4000 / 3900	4700 / 4400	5700 / 4600	
Current cooling / heating - OD	A		4,8 / 4,7	5,5 / 4,9	6,4 / 6,7	7,8 / 7,4	
SEER / SCOP			5,1 / 4,0	5,6 / 4,0	5,6 / 3,8	5,6 / 3,8	
Energy class Cooling/ Heating (average)			A / A+	A+ / A+	A+ / A	A+ / A	
Air flow	ID	m^3/h	2100	2100	2400	3000	
	OD	m^3/h	5100	6600	6600	8800	
Sound pressure level	ID	dB(A)	53 / 52 / 48 / 44	53 / 52 / 48 / 44	55 / 53 / 49 / 45	56 / 55 / 51 / 46	
	OD	dB(A)	63	64	64	68	
Dehumidifying volume	l/h		2,7	3,0	3,8	4,6	
External static pressure - rated / range	Pa		37 / 0-150	37 / 0-150	50 / 0-150	50 / 0-150	
Refrigerant	Type / kg / t eq.CO_2		R410A / 3,5 / 7,31	R410A / 3,7 / 7,72	R410A / 4,0 / 8,35	R410A / 5,0 / 10,44	
Pipe diameter	Liquid side	inch / mm	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	
	Gas side	inch / mm	⅝ / 15,9	⅝ / 15,9	⅝ / 15,9	¾ / 19,1	
Max. pipe length	m		30	50	50	50	
Max. elevation / Drop height	m		15	15	30	30	
Standard pipe length	m		7	7	7	7	
Additional refrigerant	g/m		60	60	60	60	
Dimension (w x h x d)	ID	mm	1225x290x775	1225x290x775	1340x350x750	1340x350x750	
	OD	mm	1105x1100x440	960x1350x410	960x1350x410	1085x1365x425	
Package dimension (w x h x d)	ID	mm	1338x305x877	1338x305x877	1423x455x837	1423x455x837	
	OD	mm	1158x1236x493	1043x1500x453	1043x1500x453	1143x1505x478	
Net/ gross weight	ID	kg	46,0 / 53,0	46,0 / 53,0	56,0 / 65,0	57,0 / 65,0	
	OD	kg	98,0 / 106,0	108,0 / 118,0	114,0 / 124,0	126,0 / 138,0	
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

MULTI SYSTEM SERIES

OUTDOOR UNITS

MS-E14AIN
MS-E18AIN
MS-E21AIN
MS-E24AIN
MS-E28AIN
MS-E36AI
MS-E42AI

3-year warranty
Flexible installation
Free combination of up to 5 indoor units
Autorestart function
Winter operation
Automatic defrost mode
Control sequence after first power on

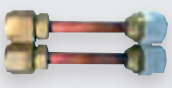
ALL AVAILABLE COMBINATIONS OF INDOOR UNITS ARE MENTIONED IN COMBINATION TABLE.

LED · Auto · Blue Fin · R410A

DC INVERTER

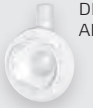
STANDARD ACCESSORIES

PIPE ADAPTERS



DRAIN PLUGS

DRAIN WATER ADAPTER



TECHNICAL PARAMETERS
OUTDOOR UNITS

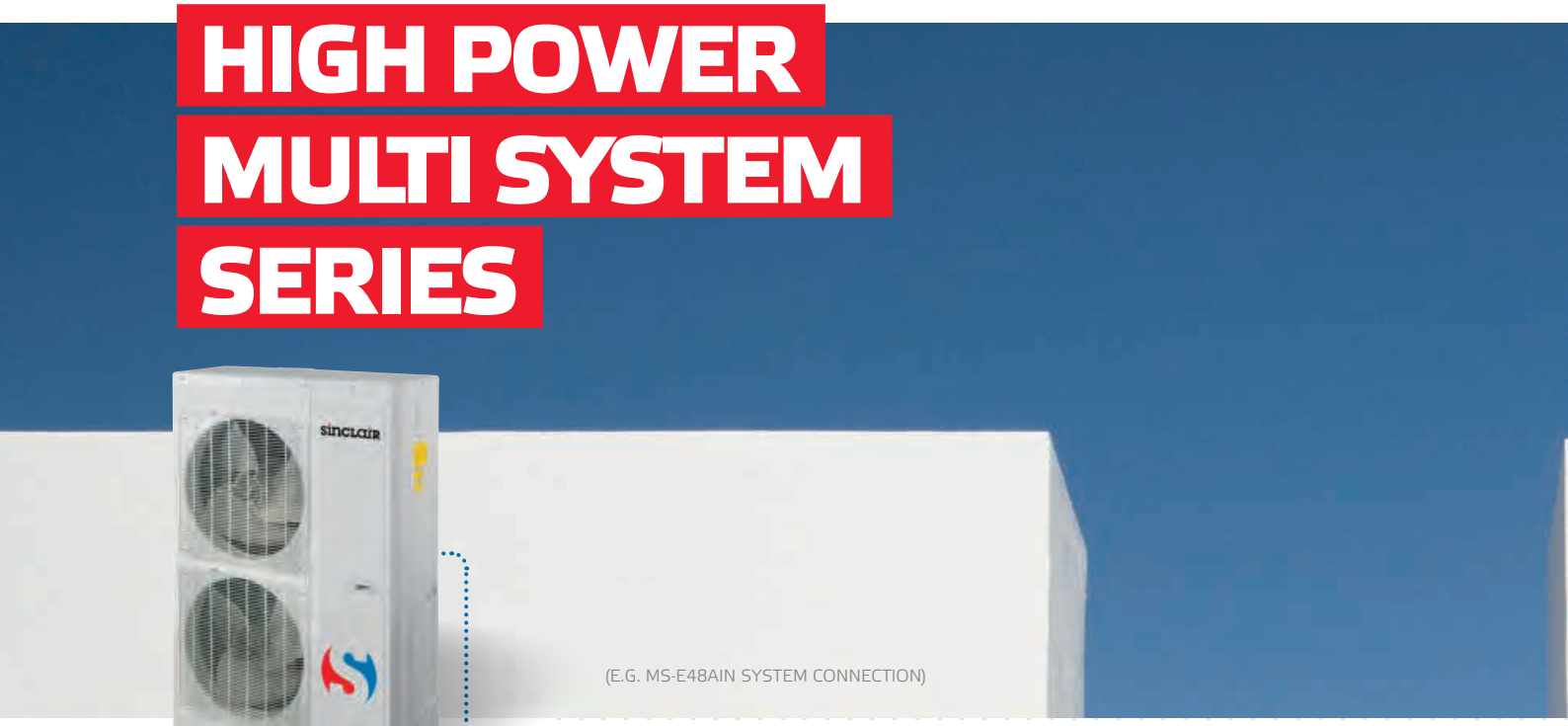
MODEL			MS-E14AIN	MS-E18AIN	MS-E21AIN
Qty of connectable indoor units	-		1-2	1-2	2-3
Capacity cooling / heating	kW		4,1 (2,1-4,4) / 4,4 (2,5-5,4)	5,2 (2,1-5,8) / 5,4 (2,6-5,9)	6,1 (2,2-7,3) / 6,5 (3,6-8,5)
Power input cooling / heating	W		1200 / 1180	1450 / 1550	1910 / 1730
Rated power input	W		1780	1780	2870
Power current cooling / heating	A		5,32 / 5,24	6,43 / 6,88	8,47 / 7,68
Rated power current	A		7,90	7,90	12,73
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP			6,1 / 4,0	6,3 / 4,0	6,1 / 4,0
Energy class Cooling/ Heating (average)			A++ / A+	A++ / A+	A++ / A+
Air flow	m^3/h		2600	3200	3200
Sound pressure level	dB(A)		55	56	56
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 1,40 / 2,92	R410A / 1,60 / 3,34	R410A / 2,20 / 4,59
Pipe diameter	Liquid side	mm x qty	6,4x2	6,4x2	6,4x3
	Gas side	mm x qty	9,5 x2	9,5 x2	9,5 x3
Max. length of connection pipe	m		20 / 10	20 / 10	60 / 20
Max. elevation/Drop height	m		5	5	10
Dimension (w x h x d)	mm		899x596x378	963x700x396	963x700x396
Package dimension (w x h x d)	mm		948x645x420	1029x750x458	1029x750x458
Net/gross weight	kg		43,0 / 46,0	51,0 / 55,5	62,0 / 66,5
Operating temperature range	Cooling	ºC	-15 ~ 43	-15 ~ 43	-15 ~ 43
	Heating	ºC	-20 ~ 24	-20 ~ 24	-20 ~ 24

MODEL			MS-E24AIN	MS-E28AIN	
Qty of connectable indoor units	-		2-3	2-4	
Capacity cooling / heating	kW		7,1 (2,3-8,5) / 8,5 (3,7-8,8)	8,0 (2,3-10,3) / 9,3 (3,7-10,3)	
Power input cooling / heating	W		2180 / 2280	2540 / 2490	
Rated power input	W		2870	3580	
Power current cooling / heating	A		9,67 / 10,12	15,71 / 11,05	
Rated power current	A		12,73	15,88	
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	
SEER / SCOP			6,1 / 4,0	6,1 / 4,0	
Energy class Cooling/ Heating (average)			A++ / A+	A++ / A+	
Air flow	m^3/h		4000	4000	
Sound pressure level	dB(A)		58	58	
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 2,20 / 4,59	R410A / 2,60 / 5,43	
Pipe diameter	Liquid side	mm x qty	6,4x3	6,4x4	
	Gas side	mm x qty	9,5 x3	9,5 x4	
Max. length of connection pipe	m		60 / 20	70 / 20	
Max. elevation/Drop height	m		10	10	
Dimension (w x h x d)	mm		1001x790x427	1001x790x427	
Package dimension (w x h x d)	mm		1083x855x488	1083x855x488	
Net/gross weight	kg		68,0 / 73,0	69,0 / 74,0	
Operating temperature range	Cooling	ºC	-15 ~ 43	-15 ~ 43	
	Heating	ºC	-20 ~ 24	-20 ~ 24	

MODEL			MS-E36AI	MS-E42AI	
Qty of connectable indoor units	-		2-4	2-5	
Capacity cooling / heating	kW		10,5 (2,1-11,0) / 12,0 (2,6-13,0)	12,1 (2,1-13,6) / 13,0 (2,6-14,0)	
Power input cooling / heating	W		3500 / 3750	3590 / 3550	
Rated power input	W		4880	5300	
Power current cooling / heating	A		15,42 / 15,20	16,43 / 16,22	
Rated power current	A		21,65	23,50	
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	
SEER / SCOP (EER / COP)			5,5 / 3,8	3,2 / 3,8	
Energy class Cooling/ Heating (average)			A / A	A / A	
Air flow	m^3/h		5200	5500	
Sound pressure level	dB(A)		57	54	
Refrigerant type / charge	Type / kg / t eq.CO_2		R410A / 4,30 / 8,98	R410A / 4,80 / 10,02	
Pipe diameter	Liquid side	mm x qty	6,4x3 + 9,5x1	6,4x4 + 9,5x1	
	Gas side	mm x qty	9,5x2 + 12,7x1 + 15,9x1	9,5x2 + 12,7x2 + 15,9x1	
Max. length of connection pipe	m		70 / 20	80 / 25	
Max. elevation/Drop height	m		15	15	
Dimension (w x h x d)	mm		1015x1103x440	1015x1103x440	
Package dimension (w x h x d)	mm		1158x1235x493	1115x1155x480	
Net/gross weight	kg		94,0 / 104,0	95,0 / 105,0	
Operating temperature range	Cooling	ºC	-15 ~ 48	-15 ~ 48	
	Heating	ºC	-15 ~ 27	-15 ~ 27	

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC 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.

HIGH POWER MULTI SYSTEM SERIES



(E.G. MS-E48AIN SYSTEM CONNECTION)

TOTAL OUTPUT OF ALL INDOOR UNITS SHOULD BE WITHIN 50-135% OF MAXIMUM OUTPUT OF THE OUTDOOR UNIT.

MS-E48AIN
MS-E56AIN

Combination of 2 up to 9 indoor units of multi system series
Refrigerant pipes divided by branch joints and distributors
Automatic scanning of connected indoor units
Automatic addressing of indoor units
3-year warranty
Integrated WiFi module

R410A

DC INVERTER

STANDARD ACCESSORIES

PIPE ADAPTER

DRAIN WATER ADAPTER

DRAIN PLUG

OPTIONAL ACCESSORIES

BRANCH JOINTS
MS-01BI

BRANCH JOINTS ARE USED FOR EQUAL DISTRIBUTION OF REFRIGERANT FROM OUTDOOR UNIT TO DISTRIBUTION BOXES.

MODEL		MS-E48AIN	MS-E56AIN
Qty of connectable indoor units	-	2 - 8	2 - 9
Total capacity index of to be connected indoor units	%	50-135	50-135
Cooling / Heating capacity	kW	14,0 (1,0-16,0) / 16,0 (1,2-17,4)	16,0 (1,0-18,0) / 18,0 (1,2-19,0)
Power supply	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415
Nominal power input cooling / heating	W	4600 / 4250	5200 / 4700
Rated power input / current	W/A	6000 / 12	6500 / 12
EER / COP	-	2,70 / 3,20	2,65 / 3,50
Air Flow Volume	m^3/h	6600	6600
Sound pressure level	dB(A)	58	58
Refrigerant type / charge	Type / kg / t eq.CO_2	R410A / 4,95 / 10,33	R410A / 4,95 / 10,33
Piping connections liquid / gas	mm	9,5 / 15,9	9,5 / 19,1
Max. total pipe length (ΣL+ΣA)	m	135	145
Max. total pipe length between OD and Dbox (ΣL)	m	55	55
Max. total pipe length between Dbox and ID (ΣA)	m	80	90
Pipe length between Dbox and ID (A1,2…)	m	15	15
Max. height between OD and Dbox (H1) and ID (H2)	m	30	30
Max. height between DBoxes or IDs (H3)	m	15	15
Prefilled length of refrigerant pipe/ additional refrigerant	m	30 / depends on calculation	30 / depends on calculation
Dimensions (w x h x d)	mm	900x1345x340	900x1345x340
Package dimensions (w x h x d)	mm	993x1500x453	993x1500x453
Net/ gross weight	kg	116,0 / 125,0	116,0 / 125,0
Operation range cooling/ heating	°C (DB)	18~48 / -10~24	18~48 / -10~24

DISTRIBUTION BOXES

DB2-19SB, DB3-19SB, DB5-16AF

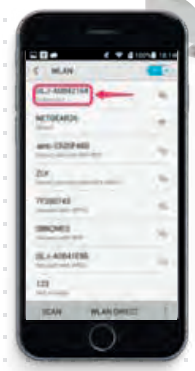
MODEL		DB2-19SB	DB3-19SB	DB5-16AF
Maximum number of connectable indoor units	-	2	3	5
Power Supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Connection port to outdoor unit liquid / gas	mm	9,7 / 19,3	9,7 / 19,3	9,7 / 16,3
Connection port to indoor unit liquid / gas	mm	2x 6,4 / 16,3	3x 6,4 / 16,3	5x 6,4 / 9,5
Connection Method	-	Braze	Braze	Flare
Sound pressure level	dB(A)	28	28	30
Unit dimensions / Package dimensions	mm	600x313x182 / 683x392x270	600x313x182 / 683x392x270	617x410x193 / 676x473x275
Net/ gross weight	kg	5,5 / 7,5	6,0 / 8,0	9,0 / 11,0

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC WB. 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.

HIGH POWER MULTI SYSTEM SERIES

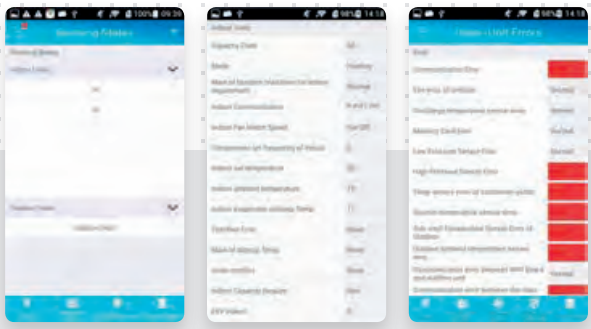
PFC APPLICATION

MS-E48AIN AND MS-E56AIN OUTDOOR UNITS HAVE INBUILT WIFI MODULE WHICH CREATES LOCAL WIFI NETWORK WHICH YOU CAN CONNECT TO. USING PFC APPLICATION YOU CAN MAKE SYSTEM CONTROL AFTER FIRST START / DURING SERVICE CONTROL / AFTER FAILURE REPORTS.



DISPLAYING ACTUAL STATE OF SYSTEM
DISPLAYING NUMBER OF INDOOR UNITS
DISPLAYING MODE OF INDOOR AND OUTDOOR UNITS

No registration or login
Standard inbuilt WiFi module inside outdoor unit
Quick installation using installation file
Quick connection to WiFi network of outdoor unit
Communication control between indoor and outdoor unit
Start of service mode (reduction of refrigerant, vacuum atmosphere)
Possibility to send reports to selected email address



SETTING OF SERVICE PARAMETERS / INDICATION OF RUNNING MODE / ERROR REPORTING VIA INTEGRATED WIFI MODULE

NEW MULTI SYSTEM SERIES COMBINATION TABLE

MS-E14AIN		MS-E21AIN		MS-E24AIN			MS-E28AIN
1 UNIT	2 UNITS	2 UNITS	3 UNITS	2 UNITS	3 UNITS		2 UNITS
7	7+7	7+7	7+7+7	7+7	7+7+7	7+7+18	7+7
9	7+12	7+12	7+7+12	7+12	9+9+12	7+9+18	7+12
12	7+9	9+9	7+7+9	9+9	7+7+9	12+12+12	9+9
	9+9	7+9	7+9+9	9+18	7+9+9	7+12+12	9+18
	9+12	7+18	9+9+9	12+18	7+7+12	9+9+18	12+18
MS-E18AIN		9+12	7+9+12	7+9	7+9+12	9+12+12	7+9
1 UNITS	2 UNITS	9+18	7+12+12	7+18	9+9+9		7+18
7	7+7	12+12	9+9+12	9+12			9+12
9	7+12	12+18	12+12+12*	12+12			12+12
12	9+12			18+18			18+18
	7+9						
	9+9						

MS-E28AIN			MS-E36AI				
3 UNITS		4 UNITS	2 UNITS		3 UNITS		
7+7+7	9+9+12	7+7+7+7	7+7	9+24	7+7+7	7+12+18	9+12+18
7+7+18	7+7+12	7+7+7+9	7+9	12+12	7+7+9	7+12+24	9+12+24
7+9+18	7+9+12	7+7+9+9	7+12	12+18	7+7+12	7+18+18	9+18+18
9+9+9	9+9+18	9+9+9+9	7+18	12+24	7+7+18	7+18+24*	9+18+24*
9+12+12	12+12+12	7+7+7+12	7+24	18+18	7+7+24	9+9+9	12+12+12
7+7+9	12+12+18	7+7+9+12	9+9	18+24	7+9+9	9+9+12	12+12+18
7+9+9	9+12+18	7+9+9+9	9+12	24+24*	7+9+12	9+9+18	12+12+24
7+12+12	7+12+18	7+7+7+18	9+18		7+9+18	9+9+24	12+18+18
		7+7+9+18			7+9+24	9+12+12	18+18+18*
		7+9+9+12			7+12+12		
		9+9+12+12					
		7+7+12+12					
		9+9+9+12					

MS-E36AI			MS-E42AI				
4 UNITS			2 UNITS		3 UNITS		
7+7+7+7	7+7+18+18*	9+9+9+9	7+7	9+24	7+7+7	7+12+24	9+18+18
7+7+7+9	7+9+9+9	9+9+9+12	7+9	12+12	7+7+9	7+18+18	9+18+24
7+7+7+12	7+9+9+12	9+9+9+18	7+12	12+18	7+7+12	7+18+24	9+24+24
7+7+7+18	7+9+9+18	9+9+12+12	7+18	12+24	7+7+18	7+24+24	12+12+12
7+7+7+24	7+9+9+24*	9+12+12+12	7+24	18+18	7+7+24	9+9+9	12+12+18
7+7+9+9	7+9+12+12	9+9+9+24*	9+9	18+24	7+9+9	9+9+12	12+12+24
7+7+9+12	7+9+12+18	9+9+12+18	9+12	24+24	7+9+12	9+9+18	12+18+18
7+7+9+18	7+9+18+18*	9+9+18+18*	9+18		7+9+18	9+9+24	12+18+24
7+7+9+24	7+12+12+12	9+12+12+18*			7+9+24	9+12+12	18+18+18
7+7+12+12	7+12+12+18	12+12+12+12			7+12+12	9+12+18	12+24+24*
7+7+12+18					7+12+18	9+12+24	18+18+24

MS-E42AI							
4 UNITS				5 UNITS			
7+7+7+7	7+7+18+18	9+9+9+12	7+9+18+24	7+7+7+7+7	7+7+9+9+12	9+9+9+9+18	7+9+9+12+18
7+7+7+9	7+9+9+9	9+9+9+18	7+12+12+24	7+7+7+7+9	7+7+9+9+18	9+9+9+12+12	7+9+9+12+24*
7+7+7+12	7+9+9+12	9+9+9+24	7+12+18+18	7+7+7+7+12	7+7+9+12+12	9+9+12+12+12	7+9+9+18+18
7+7+7+18	7+9+9+18	9+9+12+12	7+12+18+24	7+7+7+7+18	7+7+9+12+18	9+9+12+12+18*	7+9+12+12+18
7+7+7+24	7+9+9+24	9+9+12+18	7+18+18+18	7+7+7+7+24	7+7+12+12+12	7+7+7+12+24	7+12+12+12+12
7+7+9+9	7+9+12+12	9+9+12+24	9+9+18+24	7+7+7+9+9	7+9+9+9+9	7+7+7+18+18	7+12+12+12+18
7+7+9+12	7+9+12+18	9+9+18+18	9+12+12+24	7+7+7+9+12	7+9+9+9+12	7+7+9+9+24	9+9+9+9+24
7+7+9+18	7+9+12+24*	9+12+12+12*	9+12+18+18	7+7+7+9+18	7+9+9+9+18	7+7+9+12+24	9+9+9+12+18
7+7+9+24	7+9+18+18	9+12+12+18	9+18+18+18	7+7+7+9+24	7+9+9+12+12	7+7+9+18+18	9+9+9+18+18*
7+7+12+12	7+12+12+12	12+12+12+12	12+12+18+18	7+7+7+12+12	7+9+12+12+12	7+7+12+12+18	9+12+12+12+12
7+7+12+18	7+12+12+18	12+12+12+18	12+12+12+24	7+7+7+12+18	9+9+9+9+9	7+7+12+18+18	9+12+12+12+18*
7+7+12+24	9+9+9+9	7+7+18+24		7+7+9+9+9	9+9+9+9+12	7+9+9+9+24	12+12+12+12+12

*This combinations of indoor units capacities exceed 130% of maximum capacity of the outdoor unit.

When indoor rated total capacity exceeds the outdoor rated capacity, cannot ensure that each indoor unit actual running capacity could reach its value required by rated capacity. For MS-E21AIN, MS-E24AIN, MS-E28AIN, MS-E36AI, MS-E42AI it is not allowed to install one indoor unit only. If the specification of outdoor unit gas valve is 3/8, but curstomer needs to install 18 indoor unit so that it is need to use a "pipe joint subassembly" (2pcs as standard accessory) to make a conversion joint with outdoor unit gas valve and connection pipe.

PIPE LENGTH LIMITS, ADDITIONAL REFRIGERANT			MS-E14AIN	MS-E18AIN	MS-E21AIN	MS-E24AIN	MS-E28AIN	MS-E36AI	MS-E42AI
Max. connection pipe length (L1+L2+...+L5)		m	20	20	60	60	70	70	80
Max. connection pipe length (One indoor unit) (L1, L2, L3, L4, L5)		m	10	10	20	20	20	20	25
Max. installation altitude	Outdoor unit is installed under the lower side of indoor unit	m	5	5	10	10	10	15	15
	Outdoor unit is installed on the upper side of indoor unit	m	5	5	10	10	10	15	15
Max. connection pipe length (Under the condition of no need to charge the refrig., liq. pipe tot. length)		m	10	10	30	30	40	40	50
Refrigerant charge volume		g/m	20					22	

HIGH POWER MULTI SYSTEM SERIES

MS-E48AIN						
2 UNITS						
7+18	9+18	12+12	12+24	18+18	18+24	24+24
7+24	9+24	12+18				
3 UNITS						
7+7+12	7+9+18	7+18+18	9+9+18	9+12+24	12+12+12	12+18+24
7+7+18	7+9+24	7+18+24	9+9+24	9+18+18	12+12+18	12+24+24
7+7+24	7+12+12	7+24+24	9+12+12	9+18+24	12+12+24	18+18+18
7+9+9	7+12+18	9+9+9	9+12+18	9+24+24	12+18+18	18+18+24
7+9+12	7+12+24	9+9+12				
4 UNITS						
7+7+7+7	7+7+9+24	7+9+9+9	7+9+18+18	7+12+18+24	9+9+12+18	9+12+18+18
7+7+7+9	7+7+12+12	7+9+9+12	7+9+18+24	7+18+18+18	9+9+12+24	9+12+18+24
7+7+7+12	7+7+12+18	7+9+9+18	7+9+24+24	9+9+9+9	9+9+18+18	9+18+18+18
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7+7+9+9	7+7+18+24	7+9+12+18	7+12+12+24	9+9+9+24	9+12+12+18	12+12+12+24
7+7+9+12	7+7+24+24	7+9+12+24	7+12+18+18	9+9+12+12	9+12+12+24	12+12+18+18
7+7+9+18						
5 UNITS						
7+7+7+7+7	7+7+7+9+24	7+7+9+9+18	7+7+12+12+24	7+9+9+12+24	9+9+9+9+9	9+9+9+18+18
7+7+7+7+9	7+7+7+12+12	7+7+9+9+24	7+7+12+18+18	7+9+9+18+18	9+9+9+9+12	9+9+12+12+12
7+7+7+7+12	7+7+7+12+18	7+7+9+12+12	7+9+9+9+9	7+9+12+12+12	9+9+9+9+18	
7+7+7+7+18	7+7+7+12+24	7+7+9+12+18	7+9+9+9+12	7+9+12+12+18	9+9+9+9+24	9+9+12+12+18
7+7+7+7+24	7+7+7+18+18	7+7+9+12+24	7+9+9+9+18	7+9+12+12+24	9+9+9+12+12	9+12+12+12+12
7+7+7+9+9	7+7+7+18+24	7+7+9+18+18	7+9+9+9+24	7+12+12+12+12	9+9+9+12+18	9+12+12+12+18
7+7+7+9+12	7+7+9+9+9	7+7+12+12+12	7+9+9+12+12	7+12+12+12+18	9+9+9+12+24	12+12+12+12+12
7+7+7+9+18	7+7+9+9+12	7+7+12+12+18	7+9+9+12+18			
6 UNITS						
7+7+7+7+7+7	7+7+7+7+9+12	7+7+7+7+18+18	7+7+7+9+12+18	7+7+9+9+12+12	7+9+9+9+9+18	9+9+9+9+9+9
7+7+7+7+7+9	7+7+7+7+9+18	7+7+7+9+9+9	7+7+7+12+12+12	7+7+9+9+12+18	7+9+9+9+12+12	9+9+9+9+9+12
7+7+7+7+7+12	7+7+7+7+9+24	7+7+7+9+9+12	7+7+7+12+12+18	7+7+9+12+12+12	7+9+9+9+12+18	9+9+9+9+9+18
7+7+7+7+7+18	7+7+7+7+12+12	7+7+7+9+9+18	7+7+9+9+9+9	7+7+12+12+12+12	7+9+9+12+12+12	9+9+9+9+12+12
7+7+7+7+7+24	7+7+7+7+12+18	7+7+7+9+9+24	7+7+9+9+9+12	7+9+9+9+9+9	7+9+12+12+12+12	9+9+9+12+12+12
7+7+7+7+9+9	7+7+7+7+12+24	7+7+7+9+12+12	7+7+9+9+9+18	7+9+9+9+9+12		
7 UNITS						
7+7+7+7+7+7+7	7+7+7+7+7+7+18	7+7+7+7+7+9+18	7+7+7+7+9+9+12	7+7+7+7+12+12+12	7+7+7+9+9+12+12	7+9+9+9+9+9+9
7+7+7+7+7+7+9	7+7+7+7+7+9+9	7+7+7+7+7+12+12	7+7+7+7+9+9+18	7+7+7+9+9+9+9	7+7+9+9+9+9+9	7+9+9+9+9+9+12
7+7+7+7+7+7+12	7+7+7+7+7+9+12	7+7+7+7+9+9+9	7+7+7+7+9+12+12	7+7+7+9+9+9+12	7+7+9+9+9+9+12	9+9+9+9+9+9+9
8 UNITS						
7+7+7+7+7+7+7+7	7+7+7+7+7+7+7+9	7+7+7+7+7+7+7+12	7+7+7+7+7+7+9+9	7+7+7+7+7+7+9+12	7+7+7+7+7+9+9+9	7+7+7+7+9+9+9+9

(unit: x1000Btu/h)
When connecting other than recommended combinations, the system will not work properly.

Big choice of indoor units for combination: the model MS-E48AIN offers 195 possible combinations, model MS-E56AIN has 286 possible combinations.

MS-E56AIN						
2 UNITS						
7+18	9+18	12+18	12+24	18+18	18+24	24+24
7+24	9+24					
3 UNITS						
7+7+18	7+12+12	7+24+24	9+12+12	9+18+24	12+12+24	18+18+18
7+7+24	7+12+18	9+9+12	9+12+18	9+24+24	12+18+18	18+18+24
7+9+12	7+12+24	9+9+18	9+12+24	12+12+12	12+18+24	18+24+24
7+9+18	7+18+18	9+9+24	9+18+18	12+12+18	12+24+24	24+24+24
7+9+24	7+18+24					
4 UNITS						
7+7+7+7	7+7+12+12	7+9+9+24	7+12+12+24	9+9+9+24	9+12+12+18	12+12+12+18
7+7+7+9	7+7+12+18	7+9+12+12	7+12+18+18	9+9+12+12	9+12+12+24	12+12+12+24
7+7+7+12	7+7+12+24	7+9+12+18	7+12+18+24	9+9+12+18	9+12+18+18	12+12+18+18
7+7+7+18	7+7+18+18	7+9+12+24	7+18+18+18	9+9+12+24	9+12+18+24	12+12+18+24
7+7+7+24	7+7+18+24	7+9+18+18	7+18+18+24	9+9+18+18	9+12+24+24	12+12+24+24
7+7+9+9	7+7+24+24	7+9+18+24	7+18+24+24	9+9+18+24	9+18+18+18	12+18+18+18
7+7+9+12	7+9+9+9	7+9+24+24	9+9+9+9	9+9+24+24	9+18+18+24	12+18+18+24
7+7+9+18	7+9+9+12	7+12+12+12	9+9+9+12	9+12+12+12	12+12+12+12	18+18+18+18
7+7+9+24	7+9+9+18	7+12+12+18	9+9+9+18			
5 UNITS						
7+7+7+7+7	7+7+7+12+24	7+7+9+18+18	7+9+9+9+18	7+9+12+18+18	9+9+9+9+24	9+9+12+18+24
7+7+7+7+9	7+7+7+18+18	7+7+9+18+24	7+9+9+9+24	7+9+12+18+24	9+9+9+12+12	9+9+18+18+18
7+7+7+7+12	7+7+7+18+24	7+7+9+24+24	7+9+9+12+12	7+9+18+18+18	9+9+9+12+18	9+12+12+12+12
7+7+7+7+18	7+7+7+24+24	7+7+12+12+12	7+9+9+12+18	7+12+12+12+12	9+9+9+12+24	9+12+12+12+18
7+7+7+7+24	7+7+9+9+9	7+7+12+12+18	7+9+9+12+24	7+12+12+12+18	9+9+9+18+18	9+12+12+12+24
7+7+7+9+9	7+7+9+9+12	7+7+12+12+24	7+9+9+18+18	7+12+12+12+24	9+9+9+18+24	9+12+12+18+18
7+7+7+9+12	7+7+9+9+18	7+7+12+18+18	7+9+9+18+24	7+12+12+18+18	9+9+12+12+12	12+12+12+12+12
7+7+7+9+18	7+7+9+9+24	7+7+12+18+24	7+9+12+12+12	9+9+9+9+9	9+9+12+12+18	12+12+12+12+18
7+7+7+9+24	7+7+9+12+12	7+7+18+18+18	7+9+12+12+18	9+9+9+9+12	9+9+12+12+24	12+12+12+12+24
7+7+7+12+12	7+7+9+12+18	7+9+9+9+9	7+9+12+12+24	9+9+9+9+18	9+9+12+18+18	12+12+12+18+18
7+7+7+12+18	7+7+9+12+24	7+9+9+9+12				
6 UNITS						
7+7+7+7+7+7	7+7+7+7+12+18	7+7+7+9+18+18	7+7+9+9+9+24	7+9+9+9+9+9	7+9+9+12+12+18	9+9+9+9+12+18
7+7+7+7+7+9	7+7+7+7+12+24	7+7+7+9+18+24	7+7+9+9+12+12	7+9+9+9+9+12	7+9+12+12+12+12	9+9+9+9+12+24
7+7+7+7+7+12	7+7+7+7+18+18	7+7+7+12+12+12	7+7+9+9+12+18	7+9+9+9+9+18	7+9+12+12+12+18	9+9+9+9+18+18
7+7+7+7+7+18	7+7+7+9+9+9	7+7+7+12+12+18	7+7+9+9+12+24	7+9+9+9+9+24	7+12+12+12+12+12	9+9+9+12+12+12
7+7+7+7+7+24	7+7+7+9+9+12	7+7+7+12+12+24	7+7+9+9+18+18	7+9+9+9+12+12	9+9+9+9+9+9	9+9+9+12+12+18
7+7+7+7+9+9	7+7+7+9+9+18	7+7+7+12+18+18	7+7+9+12+12+12	7+9+9+9+12+18	9+9+9+9+9+12	9+9+12+12+12+12
7+7+7+7+9+12	7+7+7+9+9+24	7+7+9+9+9+9	7+7+9+12+12+18	7+9+9+9+12+24	9+9+9+9+9+18	9+9+12+12+12+18
7+7+7+7+9+18	7+7+7+9+12+12	7+7+9+9+9+12	7+7+9+12+12+24	7+9+9+9+18+18	9+9+9+9+9+24	9+12+12+12+12+12
7+7+7+7+9+24	7+7+7+9+12+18	7+7+9+9+9+18	7+7+9+12+18+18	7+9+9+12+12+12	9+9+9+9+12+12	12+12+12+12+12+12
7+7+7+7+12+12	7+7+7+9+12+24					
7 UNITS						
7+7+7+7+7+7+7	7+7+7+7+7+9+18	7+7+7+7+9+9+12	7+7+7+9+9+9+9	7+7+7+9+12+12+18	7+7+9+9+12+12+12	7+9+9+9+12+12+12
7+7+7+7+7+7+9	7+7+7+7+7+9+24	7+7+7+7+9+9+18	7+7+7+9+9+9+12	7+7+7+12+12+12+12	7+7+9+12+12+12+12	9+9+9+9+9+9+9
7+7+7+7+7+7+12	7+7+7+7+7+12+12	7+7+7+7+9+9+24	7+7+7+9+9+9+18	7+7+9+9+9+9+9	7+9+9+9+9+9+9	9+9+9+9+9+9+12
7+7+7+7+7+7+18	7+7+7+7+7+12+18	7+7+7+7+9+12+12	7+7+7+9+9+9+24	7+7+9+9+9+9+12	7+9+9+9+9+9+12	9+9+9+9+9+9+18
7+7+7+7+7+7+24	7+7+7+7+7+12+24	7+7+7+7+9+12+18	7+7+7+9+9+12+12	7+7+9+9+9+9+18	7+9+9+9+9+9+18	9+9+9+9+9+12+12
7+7+7+7+7+9+9	7+7+7+7+7+18+18	7+7+7+7+12+12+12	7+7+7+9+9+12+18	7+7+9+9+9+12+12	7+9+9+9+9+12+12	9+9+9+9+12+12+12
7+7+7+7+7+9+12	7+7+7+7+9+9+9	7+7+7+7+12+12+18	7+7+7+9+12+12+12	7+7+9+9+9+12+18		
8 UNITS						
7+7+7+7+7+7+7+7	7+7+7+7+7+7+9+9	7+7+7+7+7+7+12+18	7+7+7+7+7+9+12+12	7+7+7+7+7+9+9+12	7+7+7+9+9+9+9+12	7+7+9+9+9+9+9+12
7+7+7+7+7+7+7+9	7+7+7+7+7+7+9+12	7+7+7+7+7+9+9+9	7+7+7+7+7+12+12+12	7+7+7+7+9+9+12+12	7+7+7+9+9+9+12+12	7+9+9+9+9+9+9+9
7+7+7+7+7+7+7+12	7+7+7+7+7+7+9+18	7+7+7+7+7+9+9+12	7+7+7+7+9+9+9+9	7+7+7+9+9+9+9+9	7+7+9+9+9+9+9+9	9+9+9+9+9+9+9+9
7+7+7+7+7+7+7+18	7+7+7+7+7+7+12+12	7+7+7+7+7+9+9+18				
9 UNITS						
7+7+7+7+7+7+7+7+7	7+7+7+7+7+7+7+7+12	7+7+7+7+7+7+7+9+9	7+7+7+7+7+7+7+9+12	7+7+7+7+7+7+9+9+9	7+7+7+7+7+7+9+9+12	7+7+7+7+7+9+9+9+9
7+7+7+7+7+7+7+7+9						

(unit: x1000Btu/h)

MULTI SYSTEM SERIES

INDOOR UNITS

MS-H07AIZ
MS-H09AIZ
MS-H12AIZ
MS-H18AIZ
MS-H24AIZ
MS-H09AISW PT
MS-H12AISW PT
MS-P09AI
MS-P12AI
MS-P18AI

MS-HXXAISW PT

MS-HXXAIZ

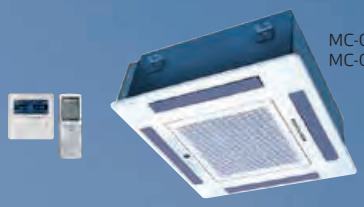
MS-PXXAI

3-year warranty | Autorestart function
Set temperature range 16-30ºC | Standard WiFi control (except MS-H07AIZ)
Optional filters for wall mounted units
Optional controller - gsm module G2S

WALL MOUNTED			MS-H07AIZ	MS-H09AIZ	MS-H12AIZ	MS-H18AIZ	MS-H24AIZ
Capacity cooling / heating	kW		2,10 / 2,60	2,6 / 2,8	3,5 / 3,7	5,1 / 5,3	6,7 / 7,3
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Air flow	m³/h		550/490/420/330	560/ 490/ 430/ 330	660/ 540/ 460/ 330	800/ 720/ 610/ 520	1150/ 1000/ 900/ 800
Sound pressure level	dB(A)		38/36/32/26	39/ 36/ 32/ 26	42/ 39/ 33/ 26	46/ 42/ 39/ 36	48/ 45/ 42/ 39
Dehumidifying volume	l/h		0,6	0,8	1,4	1,8	2,1
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	¼ / 6,4	¼ / 6,4
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9
Dimension (w x h x d)	mm		790x275x200	790x275x200	845x289x209	970x300x224	1078x325x246
Package dimension (w x h x d)	mm		866x271x367	866x271x367	921x281x379	1041x383x320	1148x413x350
Net/gross weight	kg		9,0 / 11,0	9,0 / 11,0	10,0 / 12,0	13,5 / 16,5	17,0 / 20,5
Controller	type		remote	remote	remote	remote	remote
Optional healthy filters	Model		SAF-OPWC1, SAF-OPWA1, SAF-OPWB1, SAF-OPWS1, SAF-OPWE1, SAF-OPWP1				
WALL MOUNTED			MS-H09AISW PT	MS-H12AISW PT			
Capacity cooling / heating	kW		2,6 / 2,8	3,5 / 3,8			
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240			
Air flow	m³/h		450-260	560-280			
Sound pressure level	dB(A)		38/ 35/ 32/ 30/ 28/ 26/ 25	39/ 36/ 34/ 31/ 28/ 27/ 26			
Dehumidifying volume	l/h		0,8	1,4			
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4			
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5			
Dimension (w x h x d)	mm		860x299x153	896x320x159			
Package dimension (w x h x d)	mm		944x386x247	973x403x255			
Net/gross weight	kg		9,5 / 12,5	11,5 / 14,5			
Controller	type		remote	remote			
Optional healthy filters	Model		SAF-OPWC1, SAF-OPWA1, SAF-OPWB1, SAF-OPWS1, SAF-OPWE1, SAF-OPWP				
CONSOLE			MS-P09AI	MS-P12AI	MS-P18AI		
Capacity cooling / heating	kW		2,6 / 2,8	3,5 / 3,8	5,3 / 5,8		
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Air flow	m³/h		480-650	550-750	650-840		
Sound pressure level	dB(A)		40/ 38/ 33/ 26	42/ 40/ 37/ 32	48/ 46/ 41/ 35		
Dehumidifying volume	l/h		0,8	1,4	1,8		
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4		
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7		
Dimension (w x h x d)	mm		700x600x215	700x600x215	700x600x215		
Package dimension (w x h x d)	mm		791x710x286	791x710x286	791x710x286		
Net/gross weight	kg		15,0 / 18,0	15,0 / 18,0	15,0 / 18,0		
Controller	type		remote	remote	remote		

MC-C24AI

MC-DXXAI


MC-C12AI
MC-C18AI

MC-FXXAI

MC-C12AI
MC-C18AI
MC-C24AI

MC-F09AI
MC-F12AI
MC-F18AI
MC-F24AI

MC-D09AI
MC-D12AI
MC-D18AI
MC-D24AI

3-year warranty | Autorestart function
Set temperature range 16-30ºC | Standard remote/wired controller
Standard water pump (cassette, duct units)
Optional controller - gsm module G2S

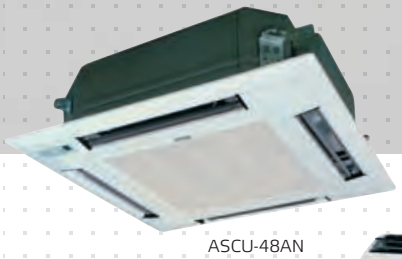
FLOOR CEILING			MC-F09AI	MC-F12AI	MC-F18AI	MC-F24AI	
Capacity cooling / heating	kW		2,5 / 2,8	3,5 / 3,9	5,0 / 5,5	7,1 / 8,0	
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Air flow	m³/h		650	650	950	1250	
Sound pressure level	dB(A)		40 / 36	40 / 36	45 / 40	48 / 40	
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	⅜ / 9,5	
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9	
Dimension (w x h x d)	mm		1220x700x225	1220x700x225	1220x700x225	1220x700x225	
Package dimension (w x h x d)	mm		1343x823x315	1343x823x315	1343x823x315	1343x823x315	
Net/gross weight	kg		40,0 / 50,0	40,0 / 50,0	45,0 / 54,0	45,0 / 54,0	
Controller	type		remote & wired	remote & wired	remote & wired	remote & wired	
CASSETTE			MC-C12AI	MC-C18AI	MC-C24AI		
Capacity cooling / heating	kW		3,5 / 4,0	4,5 / 5,0	7,1 / 8,0		
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Air flow	m³/h		600	600	1180		
Sound pressure level	dB(A)		46 / 44 / 42	46 / 44 / 42	39 / 37 / 35		
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	⅜ / 9,5		
	Gas side	inch / mm	⅜ / 9,5	½ / 12,7	⅝ / 15,9		
Dimension (w x h x d)	mm		570x230x570	570x230x570	840x240x840		
Package dimension (w x h x d)	mm		851x325x731	851x325x731	963x310x963		
Dimension-panel (w x h x d)	mm		650x50x650	650x50x650	950x60x950		
Package dimension - panel (w x h x d)	mm		733x117x673	733x117x673	1043x130x1028		
Net/gross weight - body (panel)	kg		18,0 / 23,0 (2,5 / 3,5)	18,0 / 23,0 (2,5 / 3,5)	30,0 / 38,0 (6,5 / 10,0)		
Controller	type		remote & wired	remote & wired	remote & wired		
DUCT			MC-D09AI	MC-D12AI	MC-D18AI	MC-D24AI	
Capacity cooling / heating	kW		2,5 / 2,8	3,5 / 3,9	5,0 / 5,5	7,1 / 8,0	
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Air flow	m³/h		450	550	700	1000	
Sound pressure level	dB(A)		37 / 31	39 / 32	41 / 33	42 / 34	
Pipe diameter	Liquid side	inch / mm	¼ / 6,4	¼ / 6,4	¼ / 6,4	⅜ / 9,5	
	Gas side	inch / mm	⅜ / 9,5	⅜ / 9,5	½ / 12,7	⅝ / 15,9	
ESP	Pa		0-15	0-15	0-15	0-15	
Dimension (w x h x d)	mm		700x200x615	700x200x615	900x200x615	1100x200x615	
Package dimension (w x h x d)	mm		893x305x743	893x305x743	1123x305x743	1323x305x743	
Net/gross weight	kg		22,0 / 27,0	23,0 / 29,0	27,0 / 36,0	31,0 / 41,0	
Controller	type		wired	wired	wired	wired	

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC WB.
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.

UNI ON/OFF SERIES

ASDU-60A

ASGE-48AN WK



ASCU-48AN

ASFU-48AN

ASFU-48AN
ASCU-48AN
ASDU-48AN
ASGE-48AN WK
ASDU-60A
ASGE-60A WK

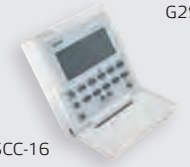
Anticorrosion treatment of exchangers
3-year warranty
Autorestart function
Fresh air supply (cassette units)
Standard water pump (cassette units)

STANDARD ACCESSORIES

Z7A351

Y512

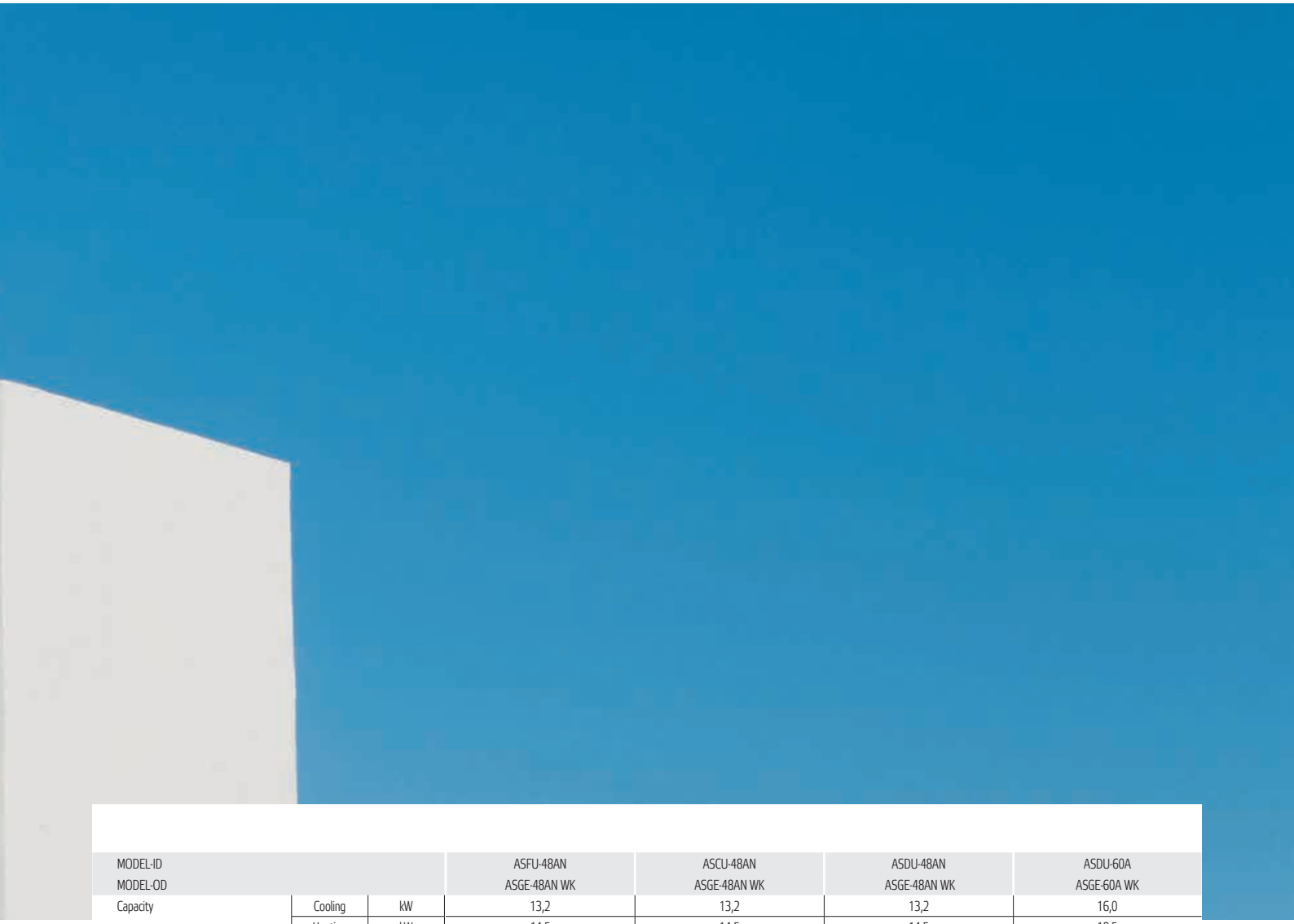
OPTIONAL ACCESSORIES



SCC-16

G2S

TECHNICAL PARAMETERS

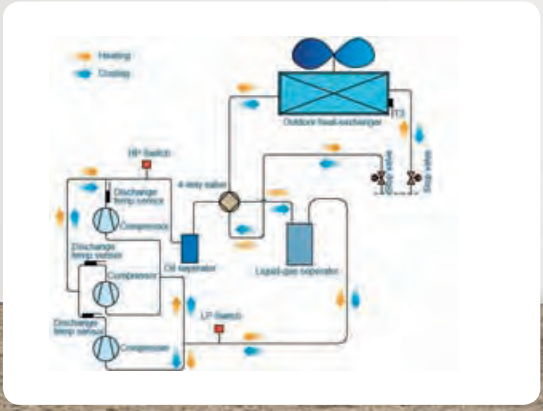


MODEL-ID MODEL-OD			ASFU-48AN ASGE-48AN WK	ASCU-48AN ASGE-48AN WK	ASDU-48AN ASGE-48AN WK	ASDU-60A ASGE-60A WK
Capacity	Cooling	kW	13,2	13,2	13,2	16,0
	Heating	kW	14,5	14,5	14,5	18,5
Power supply	ID	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
	OD	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415
Power input cooling / heating	W		5000 / 4800	4800 / 5200	5100 / 4600	6500 / 5500
Current cooling / heating	A		11,0 / 10,5	10,5 / 11,3	10,5 / 9,8	11,8 / 10,0
Air flow	ID	m^3/h	2100/ 1900/ 1800	1660/ 1570/ 1500	2300 / 2110 / 1850	2500 / 2070 / 1730
	OD	m^3/h	6000	6000	6000	6200
Sound pressure level	ID	dB(A)	58/ 55/ 52	53/ 51/ 48	53/ 50/ 46	53/ 50/ 48
	OD	dB(A)	63	63	63	64
External static pressure - rated / range	Pa		-	-	50 (0-150)	50 (0-150)
Refrigerant	Type / kg / t eq.CO_2		R410A / 3,8 / 7,93	R410A / 3,8 / 7,93	R410A / 3,8 / 7,93	R410A / 5,0 / 10,44
Pipe diameter	Liquid side	inch / mm	½ / 12,7	½ / 12,7	½ / 12,7	½ / 12,7
	Gas side	inch / mm	¾ / 19,1	¾ / 19,1	¾ / 19,1	¾ / 19,1
Max. pipe length	m		50	50	50	50
Max. elevation / Drop height	m		30	30	30	30
Standard pipe length	m		7	7	7	7
Additional refrigerant	g/m		120	120	120	120
Dimension (w x h x d)	ID	mm	1590x695x238	840x320x840	1226x290x775	1126x330x815
	OD	mm	1032x1250x412	1032x1250x412	1032x1250x412	1032x1250x412
	Panel	mm	-	950x60x950	-	-
Package dimension (w x h x d)	ID	mm	1717x833x345	963x409x963	1338x837x305	1338x885x345
	OD	mm	1113x1400x453	1113x453x1400	1113x1400x453	1113x1400x453
	Panel	mm	-	1028x130x1043	-	-
Net/ gross weight	ID	kg	48,0 / 58,0	32,0 / 43,0	57,0 / 67,0	66,0 / 76,0
	OD	kg	112,0 / 123,0	112,0 / 123,0	112,0 / 123,0	123,0 / 134,0
	Panel	kg	-	6,5 / 10,5	-	-
Operating temperature range	Cooling	°C	-15 ~ 43	-15 ~ 43	-15 ~ 43	-15 ~ 43
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC WB. 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.

CONDENSING UNITS

REFRIGERANT PIPE DIAGRAM OF UNIT ASE-192AH

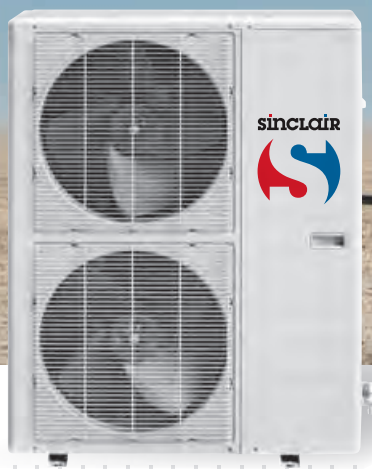


ASE-48AH
ASE-60AH
ASE-76AH
ASE-96AH
ASE-120AH
ASE-150AH
ASE-192AH

Anticorrosion treatment of exchangers
Silent operation
Compact design
Throttle type-capillary*
3-year warranty

* (ASE-48AH AND ASE-60AH)

IT IS NECESSARRY TO DESIGN CORRESPONDING SIZE OF EVAPORATOR FOR HIGH-CAPACITY UNITS (ASE-76AH TO ASE-192AH). IT IS ALSO ESSENTIAL TO ADD REQUIRED COMPONENTS OF COOLING CIRCUIT TO GUARANTEE CORRECT AND RELIABLE OPERATION.

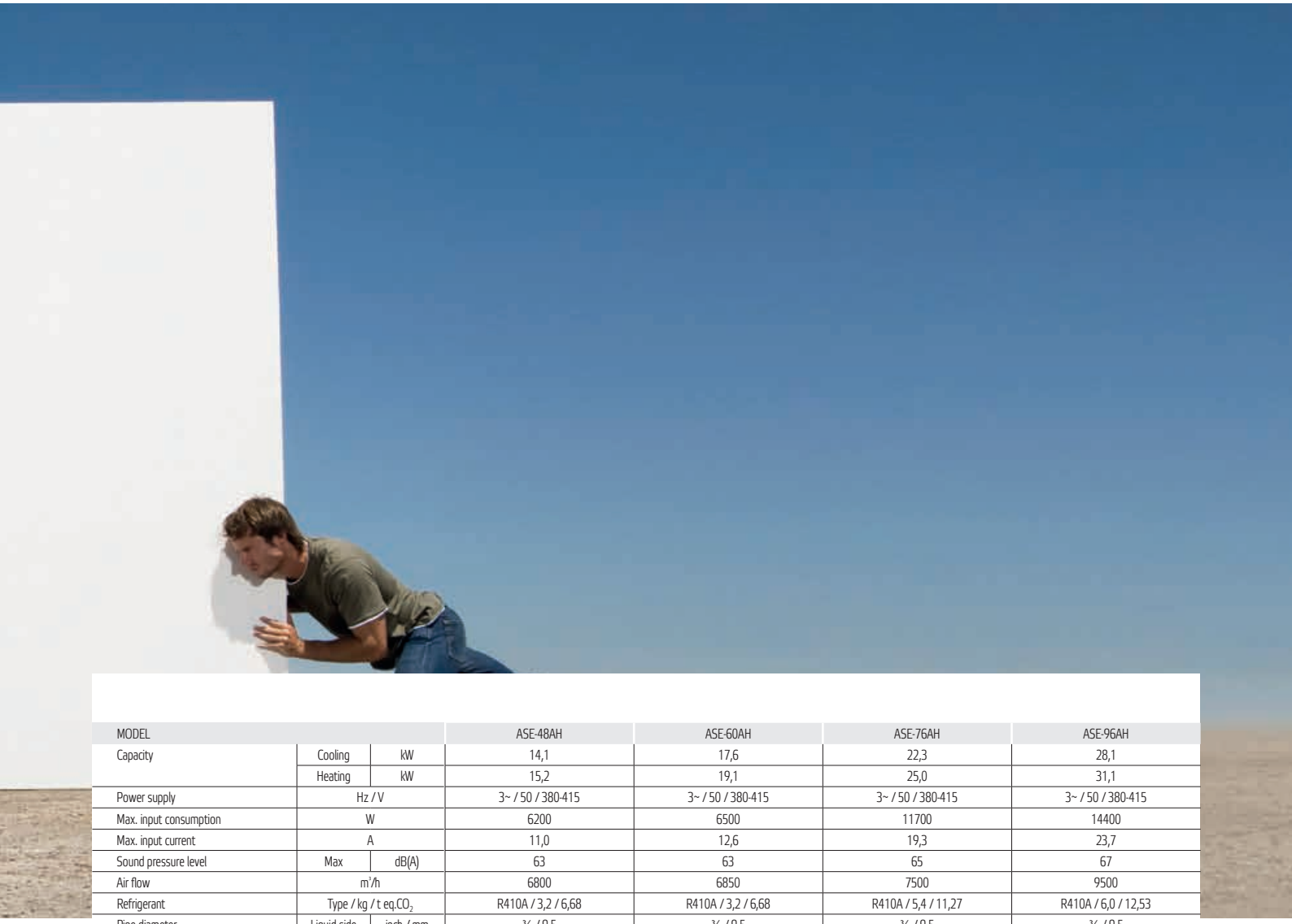


ASE-48AH / ASE-60AH

ASE-192AH

ASE-120AH

TECHNICAL PARAMETERS



MODEL			ASE-48AH	ASE-60AH	ASE-76AH	ASE-96AH
Capacity	Cooling	kW	14,1	17,6	22,3	28,1
	Heating	kW	15,2	19,1	25,0	31,1
Power supply	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415
Max. input consumption	W		6200	6500	11700	14400
Max. input current	A		11,0	12,6	19,3	23,7
Sound pressure level	Max	dB(A)	63	63	65	67
Air flow	m^3/h		6800	6850	7500	9500
Refrigerant	Type / kg / t eq.CO_2		R410A / 3,2 / 6,68	R410A / 3,2 / 6,68	R410A / 5,4 / 11,27	R410A / 6,0 / 12,53
Pipe diameter	Liquid side	inch / mm	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5	⅜ / 9,5
	Gas side	inch / mm	¾ / 19,1	¾ / 19,1	⅞ / 22,2	1 / 25,4
Length of connection pipe	Max	m	50	50	50	50
Elevation (OD down/ up)	Max	m	25 / 25	25 / 25	30 / 25	30 / 25
Dimension (w x h x d)	mm		900x1170x350	900x1170x350	1260x908x700	1260x908x700
Package dimension (w x h x d)	mm		1032x1307x443	1032x1307x443	1320x1060x730	1320x1060x730
Net/ gross weight	kg		93,2 / 105,0	97,0 / 108,0	174,0 / 193,0	187,0 / 204,0
Operating temperature range	Cooling	°C	18 ~ 43	18 ~ 43	17 ~ 52	17 ~ 52
	Heating	°C	-7 ~ 24	-7 ~ 24	-7 ~ 24	-7 ~ 24

MODEL			ASE-120AH	ASE-150AH	ASE-192AH	
Capacity	Cooling	kW	35,0	44,0	56,3	
	Heating	kW	38,0	47,0	58,6	
Power supply	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	
Max. input consumption	W		17300	26900	32200	
Sound pressure level	A		28,6	47,9	53,8	
Noise-outdoor unit	Max	dB(A)	69	70	73	
Air flow	m^3/h		12000	15000	19000	
Refrigerant	Type / kg / t eq.CO_2		R410A / 7,2 / 15,03	R410A / 10,0 / 20,88	R410A / 11,8 / 24,63	
Pipe diameter	Liquid side	inch / mm	½ / 12,7	⅝ / 16,0	⅝ / 16,0	
	Gas side	inch / mm	1 ⅛ / 28,6	1 ¼ / 32,0	1 ¼ / 32,0	
Length of connection pipe	Max	m	50	50	50	
Elevation (OD down/ up)	Max	m	30 / 25	30 / 25	30 / 25	
Dimension (w x h x d)	mm		1260x908x700	1250x1615x765	1390x1615x765	
Package dimension (w x h x d)	mm		1320x1060x730	1305x1790x820	1455x1790x830	
Net/ gross weight	kg		201,0 / 217,0	288,0 / 308,0	320,0 / 336,0	
Operating temperature range	Cooling	°C	17 ~ 52	17 ~ 46	17 ~ 46	
	Heating	°C	-7 ~ 24	-7 ~ 24	-7 ~ 24	

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 27ºC DB/19ºC WB, outdoor temperature 35ºC DB/24ºC WB. Heating condition: indoor temperature 20ºC DB/15ºC WB, outdoor temperature 7ºC DB/6ºC WB. 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.

WINDOW SERIES

Traditional and compact solution for specific applications

ASW-09BI
ASW-12BI

Energy class A
3-year warranty
Low GWP refrigerant R32 (GWP 675)
Cooling mode only
Dirty filter alarm
Low voltage startup
Autorestart function

YX1F

MANUAL CONTROL PANEL

POSSIBILITY TO CONTROL UNIT VIA BUTTONS ON FRONT PANEL OF AIR CONDITIONER.

DC INVERTER

TECHNICAL PARAMETERS

MODEL			ASW-09BI	ASW-12BI		
Cooling capacity	kW		2,7	3,7		
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240		
Application area	m^2		12-18	16-24		
Power input cooling	W		782	1030		
Rated power input	W		1100	1300		
Power current cooling	A		3,5	4,6		
Rated power current	A		5,5	6,5		
SEER			3,45	3,54		
Energy class cooling			A	A		
Air flow	Interier	m^3/h	400/ 360/ 320	480/ 430/ 380		
	Exterier	m^3/h	800	1200		
Sound pressure level	Interier	dB(A)	50/ 48/ 46	50/ 48/ 46		
	Exterier	dB(A)	56/ 54/ 52	58/ 56/ 54		
Sound power level	Interier	dB(A)	59/ 57/ 55	59/ 57/ 55		
	Exterier	dB(A)	65/ 63/ 61	65/ 63/ 61		
Dehumidifying volume	l/h		1,0	1,6		
Refrigerant type / charge	Type / kg / t eq.CO_2		R32 / 0,51 / 0,34	R32 / 0,63 / 0,43		
Dimension (w x h x d)	mm	mm	560x375x710	660x428x700		
Package dimension (w x h x d)	mm	mm	623x425x806	739x505x793		
Net/gross weight	kg	kg	43,0 / 47,0	50,0 / 54,0		
Set temperature range	°C		16 ~ 30	16 ~ 30		
Operating temperature range	Cooling	°C	16 ~ 43	16 ~ 43		

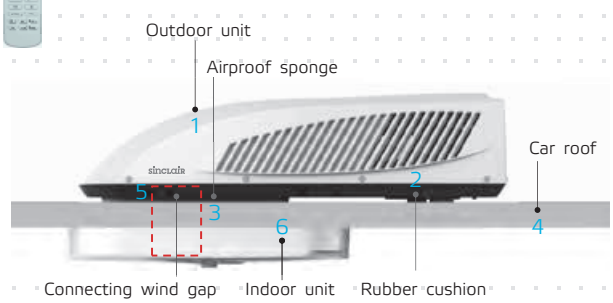
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice.
Refer to rating label. SEER/SCOP was calculated according to European standards contained in EN14825 for average season, based on part load classifying 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. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.
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.

CAMPER TRAILER AIR CONDITIONER

Make your vacation cool

ASV-25A
ASV-35A

Possibility of control via WiFi
Operating temperature 2–43ºC
For roofs with a thickness of 30–80mm
Power supply 220-240V/50Hz/1Ph
Compressor protection
Clean and friendly design
Manual and remote control
Powerful cooling, heating and dehumidification
Quiet operation
Closable air outlets



WIFI SMART APP

EASY INSTALLATION
POSSIBILITY TO CONTROL UP TO 4 DEVICES
BASIC MODE CONTROL
WEEKLY TIMER

FIX SPEED

TECHNICAL PARAMETERS

MODEL			ASV-25A	ASV-35A		
Capacity cooling / heating	kW		2,5 / 2,2	3,5 / 3,2		
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240		
Power input cooling / heating	W		1070 / 980	1270 / 1180		
Rated power input	W		1400	1550		
Power current cooling / heating	A		4,7 / 4,2	5,6 / 5,2		
Rated power current	A		6,6	9,5		
EER / COP	-		2,33 / 2,22	2,75 / 2,22		
Air flow	indoor	m^3 / h	340 / 280 / 220 / 190	380 / 320 / 260 / 230		
	outdoor	m^3 / h	600 / 300	600 / 300		
Sound pressure level	indoor	dB(A)	58 / 54 / 46 / 37	55 / 49 / 44 / 39		
	outdoor	dB(A)	65 / 55	65 / 55		
Sound power level	indoor	dB(A)	63 / 58 / 53 / 48	65 / 59 / 54 / 49		
	outdoor	dB(A)	75 / 65	75 / 65		
Dehumidifying volume	l / h		1,0	1,5		
IP protection	outdoor		IPX4	IPX4		
Mounting hole in the roof	mm		356 x 356	356 x 356		
Thickness of the roof	mm		30 - 80	30 - 80		
Refrigerant	type / kg / t eq.CO_2		R410A / 0,67 / 1,4	R410A / 0,67 / 1,4		
GWP	-		2088	2088		
Dimension (w x h x d)	indoor	mm	667 x 96 x 497	667 x 96 x 497		
	outdoor	mm	1018 x 259 x 650	1018 x 259 x 650		
Package dimension (w x h x d)	indoor	mm	738 x 153 x 590	738 x 153 x 590		
	outdoor	mm	1102 x 327 x 718	1102 x 327 x 718		
Net / gross weight	indoor	kg	5,5 / 8,0	5,5 / 8,0		
	outdoor	kg	41,0 / 46,0	41,0 / 46,0		
Set temperature range	°C		16 ~ 30	16 ~ 30		
Operating temperature range	cooling	°C	18 ~ 43	18 ~ 43		
	heating	°C	2 ~ 24	2 ~ 24		

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. 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.

LOCAL AIR CONDITIONERS

AMC-XXAN

AMC-XXAN1

NEW

AMC-11AN
AMC-14AN
AMC-11AN1
AMC-14AN1

Auto-protection function
Independent dehumidifying function
Microprocessor control
Rotary compressor
Exchangeable filter
24-hour timer
Environmentally friendly
2-year warranty

OPTIONAL ACCESSORIES

AMC-WINK
WINDOW KIT

AMC-WK
WALL KIT

AK-15A WALL
CONTROLLER SET

TECHNICAL PARAMETERS

MODEL			AMC-11AN	AMC-11AN1	AMC-14AN	AMC-14AN1
Capacity	Cooling	kW	3,0	3,0	4,0	4,0
	Heating	kW	3,0	3,0	4,0	4,0
Optimal room size	m^2		15-25	15-25	25-35	25-35
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Rated current	A		5,8	5,8	7,7	7,7
Power input	Cooling/Heating	W	1200 / 1000	1200 / 1000	1500 / 1300	1500 / 1300
EER / COP	-		2,6 / 3,1	2,6 / 3,1	2,6 / 3,1	2,6 / 3,1
Energy class	Cooling/Heating		A / A++	A / A++	A / A++	A / A++
Sound pressure level	Max.	dB(A)	62	65	63	65
Air fow	m^3/h		400	400	450	450
Dehumidifying volume	l/day		50	50	70	70
Reftigerant type/ charge	Type / kg / t eq.CO_2		R410A / 0,55 / 1,15	R410A / 0,55 / 1,148	R410A / 0,61 / 1,27	R410A / 0,455 / 0,950
Global Warming Potencial	GWP value		2088	2088	2088	2088
Dimension (w x h x d)	mm		300x778x505	300x760x532	300x778x505	300x760x532
Package dimension (w x h x d)	mm		330x550x815	330x835x580	330x550x815	330x835x580
Net weight/ Gross weight	kg		28,5 / 30,7	28,5 / 30,7	30,6 / 32,8	30,6 / 32,8
Operating temperature	Cooling	°C	17-32	17-32	17-32	17-32
	Heating	°C	7-25	7-25	7-25	7-25

R410A (50% HFC-32, 50% HFC-125), GWP 2088. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. Hermetically sealed system. Energy label can be downloaded from Sinclair product web page after B2B login.

This model can be used inside the room, but with use of module AK-15A can be also installed outside to keep the noise out of room.

MOBILE DEHUMIDIFIERS

CFO-16E

CFO-45E

CFO-16E
CFO-20N
CFO-45E

Powerful dehumidifying function
Silent operation and mode indicators
Microprocessor control
Drying
Low power consumption
Autorestart*
Indication of opened water tank*
External drain water outlet*
Protection of overflowing*
2-year warranty

* (CFO-16E, CFO-20N)

CFO-20N

TECHNICAL PARAMETERS

MODEL		CFO-16E	CFO-20N	CFO-45E
Dehumidifying volume	l/day	16,0	20,0	45,0
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Power input / Max. power input	W	280	330	830
Rated current	A	1,3	1,7	3,8
Sound pressure level	dB	45 / 43	45 / 43 / 41	46 / 44
Air fow	m^3/h	100 / 80	150 / 130 / 115	300 / 200
Water tank volume	l	3,0	4,9	4,0
Optimal room size	m^2	20	28	40
Refrigerant/ charge	Type / kg / t eq.CO_2	R134A / 0,12 / 0,16	R134A / 0,20 / 0,26	R410A / 0,30 / 0,63
Dimension (w x h x d)	mm	353x496x225	343x523x270	515x510x238
Package dimension (w x h x d)	mm	393x510x271	393x312x540	575x565x290
Net/ gross weight	kg	12,0 / 13,0	14,5 / 16,0	18,5 / 20,5
Operating temperature	ºC	5 ~ 35	5 ~ 35	5 ~ 35

R410A (50% HFC-32, 50% HFC-125), GWP 2088
R134A (100% HFC-134a), GWP 1300
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.
The values stated in the sheet are complying with norm EN810
Dehumidifying volume is measured according to EN60335-2-40, test conditions: DB 30%, RH 80%
Hermetically sealed system.

TAKING ADVANTAGE OF REFRIGERATION PRINCIPLE, THE DEHUMIDIFIER POWERFULLY REMOVES PARTIAL MOISTURE FROM AIR TO DROP THE HUMIDITY OF THE ROOM AND KEEP INDOOR AIR DRY AND COMFORTABLE. ALSO, YOU CAN TAKE ADVANTAGE OF ITS DEHUMIDIFYING ABILITY TO HELP TO DRY THE LAUNDRY QUICKER.

WITH THE USE OF THIS DEVICE YOU ARE ALSO HELPING TO PROTECT YOUR FURNITURE AND HOME EQUIPMENT, DURING THE TIMES OF HIGH AIR HUMIDITY.

AIR PURIFIER

Protect your family with new features

SP-300A

SP-240A

SP-240A
SP-300A

Plasma Ion and Anion generator (SP-240A)
Plasma Anion generator (SP-300A)
Odor control
Electrostatic de-dusting mode
Auto detecting of air quality
Odor&dust sensor
Humidification function (SP-240A)
Timer
Filter change monitor
Remote controller
2-year warranty

SPF-300 REPLACEMENT DUST FILTERS
SPDF-240 REPLACEMENT DUST FILTERS
SPWF-240 REPLACEMENT HUMIDIFYING FILTERS

OPTIONAL ACCESSORIES

SPF-300

SPDF-240

SPWF-240

TECHNICAL PARAMETERS

MODEL		SP-240A	SP-300A
Recommended cleaning area	m^2	15 - 22	20 - 30
Frequence	Hz	50	50
Voltage	V	220-240	220-240
Rated current	A	0,25	0,28
Power input (max.)	W	58	95 (Turbo) / 85 / 75 / 60
Sound pressure level	dB(A)	48 / 42 / 35 / 27 Quiet operation	53 (Turbo) / 48 / 38 / 28
Air fow volume	m^3/hr	240 / 200 / 160 / 80 Quiet operation	300 (Turbo) / 230 / 150 / 75
Cleaning volume	m^3/hr	160	180
Humidification	ml/hr	380	-
Ion and Anion generator	-	+	(only anions)
Air filtration system	type	Plastic antiseptic filter with silver ion, Cotton LTC Catalyst filter, HIMOP/HEPA filter, Active carbon filter, Electrostatic filter (only SP-240A)	
Timer	hr	0,5 - 24	1,2 or 4
Sets of filters (replacement)	type	SPDF-240 (DUST), SPWF-240 (WATER)	SPF-300
Dimension (w x h x d)	mm	385x608x278	396x576x245
Package dimension (w x h x d)	mm	433x679x318	446x615x300
Net/ gross weight	kg	11,0 / 13,0	10,0 / 12,0

LOWER YOUR CHANCES OF BECOMING SICK WITH FLU OR ANY OTHER ILLNESS CAUSED BY AIR-BORNE BACTERIA. YOU CAN LOWER THE ALLERGENS IN THE AIR, IMPROVING LIFE OF ALLERGIC PERSONS.

OPTIONAL ACCESSORIES

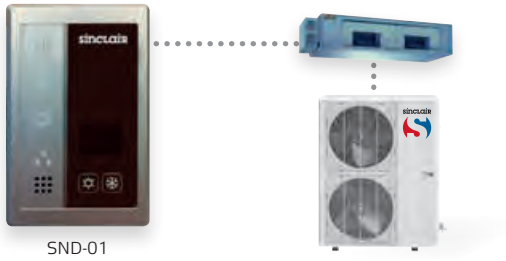
SCMI-01 SINCLAIR COMMUNICATION MODULE

The module is designed for applications requiring source of coldness or heat, such as cooling for air-conditioning systems or heating with connected hydro box. The SCMI-01 control module is designed for controlling ASGE–xxAIN WK and ASGE-xxAIN-3 WK outdoor inverter units. This module can operate in 3 modes: the slave unit (control by 0-10V), the autonomous pressure (evaporation temperature) control mode and the autonomous temperature control mode for cooling or heating.

Power indicator and optional and three yellow LEDs indicate switching of the module relays.

SDM-01

FMD-01



SND-01

SWC-02

FMD-01 FAN MOTOR CONTROL MODULE

This fan module FMD-01 can control fan motor of NEW UNI DC INVERTER SERIES indoor units (ASF-xxAIN, ASC-xxAIN, ASD-xxAIN).

SDM-01 DOOR MODULE

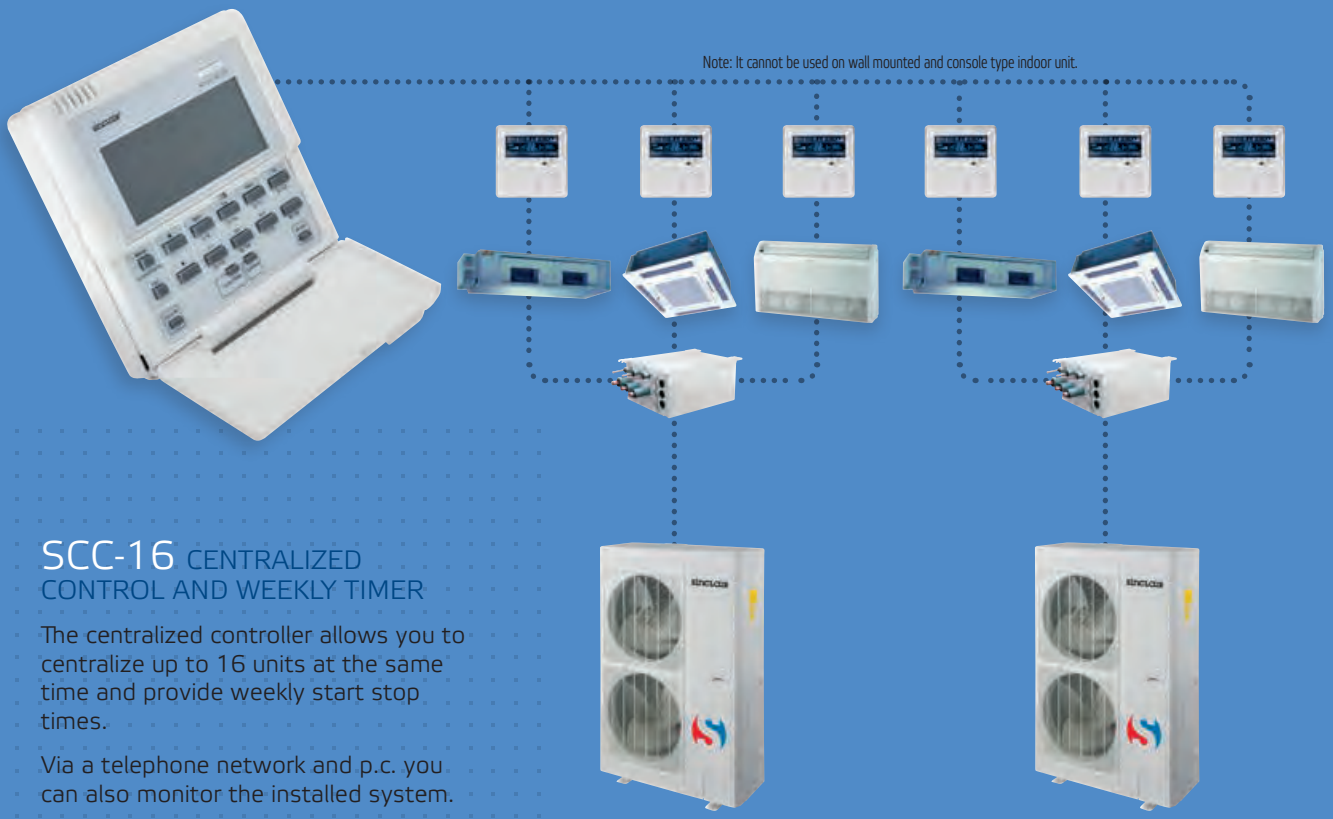
Door module is used to control NEW UNI DC INVERTER outdoor units ASGE-XXAIN WK and ASGE-XXAIN-3 WK.

SND-01 DISPLAY BOARD

Using wall-mounted display, you can control duct units ASD-xxAIN. It indicates set operation mode and set temperature. It enables switching the unit into automatic cooling or heating mode and displaying error code (report). It works as remote controller signal receiver too.

SWC-02 WIRED CONTROLLER

This optional wired controller can be connect by 2line wire right to indoor units from FOCUS series an split CONSOLE series. Week timer, daily timer, two weeks program, function lock and buttons lock is standard.



SCC-16 CENTRALIZED CONTROL AND WEEKLY TIMER

The centralized controller allows you to centralize up to 16 units at the same time and provide weekly start stop times.

Via a telephone network and p.c. you can also monitor the installed system.

The central controller can be used for the units which are equipped with the wire controller.

G2S

SPB-01

SWM-01

SWM-02

G2S MODULE

It is used for controlling SINCLAIR air-conditioners by means of your mobile phone. It applies IR transfer for communication with the air-conditioner, therefore there is no need to connect it to the air-conditioner whatsoever. In this view, it operates as another remote controller. The module is equipped with two transmitting IR diodes, signalizing diodes, slot for inserting SIM card and with connectors for connecting power supply cable and for connecting to the USB port of a computer.

SPB-01, SPB-02 PORT BOARD

It is possible to connect this optional accessories with contacts to a display of indoor unit from KITE series. This module contains contacts for distant control of the unit (on/off contact), for error signaling and for wire controllers KJR-120G (with SPB-01) and for central controller CCM (with SPB-02).

SWM-01, SWM-02 WIFI MODULE

WiFi modules can be connected to indoor units to achieve long distance control with smart phone or tablet. SWM-01 for Kite series, SWM-02 for Console split units

SUMMARY

4 FEATURES
5 OPTIONAL FILTERS
6 ADVANTAGES
7 SYMBOLS
8-9 ROCKY SERIES
10-11 ELEMENT SERIES
12-13 ZOOM SERIES
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AIR CONDITIONING

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