



LET'S INSPIRE.

**RESIDENTIAL
AIR CONDITIONING 2015**



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.



AIR CONDITIONING FEATURES

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 Voc's 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 D.c. 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 consupption can be reduced by as much as 44% compared to fixed speed compressors.

OPTIONAL HEALTHY FILTERS

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 sulphide and aldehyde. This filter is constant, which 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 condition.

CATECHIN FILTER

Catechin is an additive with excellent antioxidation and powerful sterilization that abstracts from natural green tea. After functions of a series of enzyme, benzene ring is generated to absorb and eliminate odor and injurant in ring. Catechin filter is good at long-time sterilizing and filtering dust. Its bacteriostasis to Escherichia Coli and Staphylococcus aureus is above 95%.

ACTIVE CARBON FILTER

Active carbon is an excellent absorber with dual characteristics of physical and chemical absorbing and it is available to absorb things in air and liquid selectively. With the advantages of active carbon, this filter is good at absorbing and is able to absorb injurious gas like benzene, formaldehyde and ammonia in a short time.

PHOTOCATALYTIC FILTER

Photocatalyst filter is functioned by deodorant, bacterial-killing, recycling effect under the light. It can effectively purify the air and keep it fresh. TiO² contained has strong photocatalyst effect but is environmental friendly. It is able to get rid of more than 90% acetic acid, formaldehyde and ammonia and more than 70% regenerate injurant.

SILVER ION FILTER

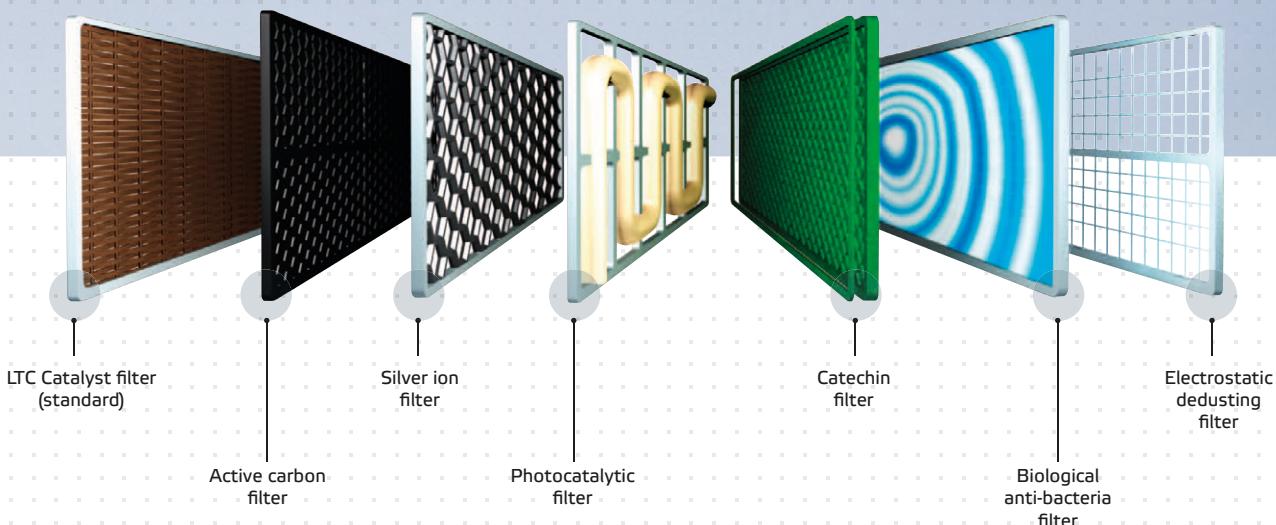
Silver ion filter is a new kind of high-efficient sterilizing products. Silver ion is a colorless and tasteless ion that brings no side effect, irritation, pollution, drug-tolerance or volatilization. Since the ion recycles itself after sterilizing, it is durable and can effectively stop bacteria from growing. Besides long time sterilizing, silver ion filter is environmental-friendly, safe, but contains strong activity (able to kill more than 99% bacteria). Silver ion strongly attracts bacteria and microorganisms, goes through its cell membrane and makes the proteinase of bacteria loss activity. It can also disturb the composing of DNA of bacteria and microorganism, so that they would die for losing the capacity of division and breed.

BIOLOGICAL ANTI-BACTERIA FILTER

This filter is a purifying material with excellent sterilizing and dust-collecting ability. When air passing the filter, dust and bacteria are adhered on the surface of filter where there is bio-bactericide. When microbe adheres on the filter, the bio-bactericide interferes its metabolism and limits its growth. Its bacteriostasis to Escherichia Coli and Staphylococcus aureus is above 95%.

ELECTROSTATIC DEDUSTING FILTER

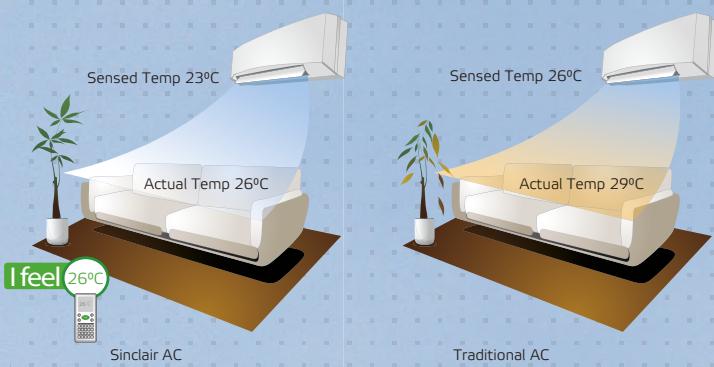
Applying high-voltage electrostatic technology, dust passing by is charged as charged particle. Thanks to the wind power created by air conditioner, charged particle moves fast and is trapped and filtered by electret fibre. Electrostatic deduster can collect 85% dust including different kinds of powder, smog and even very tiny material (not smaller than 0.1μm).



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

-18°C COOLING

Cooling at -18°C while keep a reliable operation. As the outdoor temperature changes, the frequency of compressor and the speed of fan adjusts accordingly.

-30°C HEATING

Operate finely when heating at -30°C. It is supported by SINCLAIR electrical heating chassis, preheating technology and frequency-adjusting compressor.

8°C HEATING

Maintain the room temperature steadily at 8°C and prevent the room from freezing by heating operation when nobody is at home for long time.



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.

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.

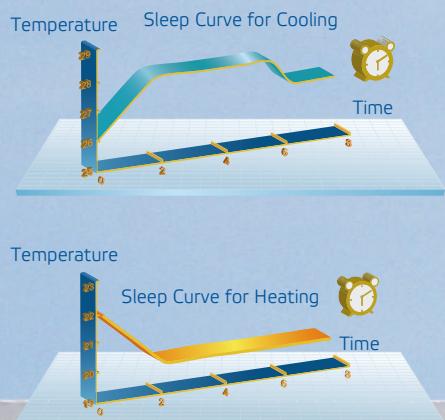


COMFORTABLE SLEEP MODE

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.



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		Automatic operation
	R410a environmentally friendly		Compact design
	Flexible adjusting lamels		Auto clean
	Diagnostic LED display		Comfortable sleep mode
	"TURBO" button		Cold air prevention
	Intelligent defrosting		Self-diagnosis
	Operation in the winter time		Auto-restart function
	SILENT OPERATION		Lock
	3-D spiral fan		8°C heating
	Programmable timer		I feel
	Clock display		7 fan speeds
	High efficiency of heat exchanger		Fresh air ventilation
	Dehumidifying mode		Optional healthy filters

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



WALL MOUNTED SPLIT AIR CONDITIONERS

ROCKY SERIES

Solid as a rock



ASH-09AIR
ASH-12AIR

- Energy class A++ / A+
- 3-year warranty
- Easy clean panel
- Comfortable sleep mode
- Standard filters-catechin and active carbon filter
- Dual side water outlet
- Small dimensions of indoor unit



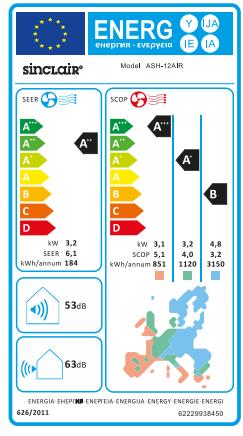
DC INVERTER

OPTIONAL ACCESSORIES

- GSM
MODULE G2S
- HEALTHY
FILTERS



TECHNICAL PARAMETERS



MODEL	ASH-09AIR		ASH-12AIR	
Capacity cooling / heating	kW	2,5 (0,6-2,8) / 2,8(0,6-3,0)	3,2(0,6-3,5) / 3,4(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 / 995	
Rated power input cooling / heating	W	1300 / 1400	1400 / 1500	
Power current cooling / heating	A	3,6 / 3,5	4,5 / 4,4	
Rated current cooling / heating	A	6,7 / 7,2	7,2 / 7,7	
SEER / SCOP	W/W	5,8 / 4,0	6,1 / 4,0	
Energy class	-	A+ / A+	A++ / A+	
Air flow	ID	m³/h	500 / 400 / 300 / 250	500 / 400 / 300 / 250
	OD	m³/h	1600	1600
Sound pressure level	ID	dB(A)	38/ 34/ 31/ 28	39/ 34/ 31/ 28
	OD	dB(A)	50	51
Dehumidifying volume	l/h		0,8	1,4
Refrigerant type / charge	type / kg	R410A / 0,7	R410A / 0,85	
Pipe diameter	Liquid side	inch / mm	1/4 / 6,4	1/4 / 6,4
	Gas side	inch / mm	3/8 / 9,5	1/2 / 12,7
Standard pipe length	m		5,0	5,0
Max. pipe length	m		15,0	20,0
Max. elevation / Drop height	m		10,0	10,0
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	820x335x580	878x360x630
Net/gross weight	ID	kg	9,0 / 10,5	9,0 / 10,5
	OD	kg	27,0 / 29,5	31,0 / 34,0
Set temperature range	°C		16-30	16-30
Operating temperature range	Cooling	°C	-15-48	-15-48
	Heating	°C	-15-24	-15-24

The specification of products is subject to change based 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 EN14825 for average season at part load conditions. 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.

WALL MOUNTED SPLIT AIR CONDITIONERS

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 and Biological
anti-bacteria filter
High speed digital signal processor



DC INVERTER

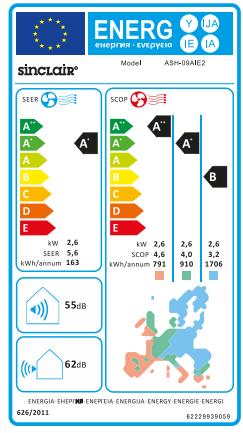


OPTIONAL ACCESSORIES

GSM
MODULE G2S
HEALTHY
FILTERS



TECHNICAL PARAMETERS



MODEL		ASH-09AIE2		ASH-12AIE2		ASH-18AIE2		ASH-24AIE2			
Capacity cooling / heating		kW		2,6 (0,45-3,23) / 2,8 (0,45-4,10)		3,5 (0,60-3,96) / 3,8 (0,60-5,13)		5,3 (1,2-6,2) / 5,6 (1,1-6,0)			
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 cooling / heating		W		1420 / 1550		1550 / 1650		2450 / 2600		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 cooling / heating		A		6,3 / 6,9		6,9 / 7,3		11,8 / 11,8		10,5 / 12,5	
SEER / SCOP		W/W		5,6 / 4,0		5,6 / 4,0		5,6 / 4,0		5,6 / 4,0	
Energy class		-		A+ / A+		A+ / A+		A+ / A+		A+ / A+	
Air flow	ID	m³/h		600/520/370/280		680/560/410/300		800/680/560/460		1000/800/700/550	
	OD	m³/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		R410A / 0,7		R410A / 0,85		R410A / 1,30		R410A / 1,80	
Pipe diameter	Liquid side	inch / mm		1/4 / 6,4		1/4 / 6,4		1/4 / 6,4		1/4 / 6,4	
	Gas side	inch / mm		% / 9,5		% / 9,5		1/8 / 12,7		% / 15,9	
Standard pipe length		m		5,0		5,0		5,0		5,0	
Max. pipe length		m		15,0		20,0		25,0		25,0	
Max. elevation / Drop height		m		10,0		10,0		10,0		10,0	
Additional refrigerant		g/m		20,0		20,0		20,0		50,0	
Dimension (w x h x d)	ID	mm		770x283x201		770x283x201		867x305x215		1007x315x219	
	OD	mm		776x540x320		776x540x320		963x700x396		1000x790x427	
Package dimension (w x h x d)	ID	mm		847x345x276		847x345x276		948x383x310		1076x398x328	
	OD	mm		851x363x595		851x363x595		1029x458x750		1083x488x855	
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		55,0 / 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	

The specification of products is subject to change based 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:

The specification of pressure setting for changeover valve depends on the wind by the pressure and can be changed manually. Please refer to the Youngster User's Guide for following conditions.

SEER/SCOP was calculated according to EN14825 for average season at part load conditions. 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.

WALL MOUNTED SPLIT AIR CONDITIONERS

MATRIX SERIES

*Powerful
solution
with stylish
design*



ASH-09AIM2 PT
ASH-13AIM2 PT
ASH-18AIM2 PT
ASH-24AIM2 PT

Energy class A++ / A+

3-year warranty

Compact design

Standard filters-catechin and active carbon filter

8°C heating

"I FEEL" function



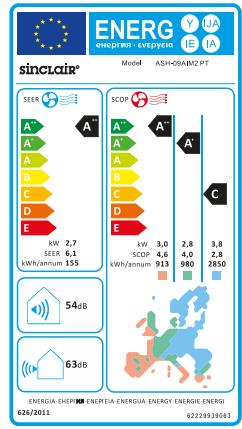
PLASMA+TEC DC INVERTER

OPTIONAL ACCESSORIES

GSM
MODULE G2S
HEALTHY
FILTERS



TECHNICAL PARAMETERS



MODEL	ASH-09AIM2 PT		ASH-13AIM2 PT		ASH-18AIM2 PT		ASH-24AIM2 PT	
Capacity cooling / heating	kW	2,6(0,6-3,2) / 3,0(0,8-3,6)		3,5(0,6-3,9) / 4,0(0,9-4,4)		5,3(1,3-6,6) / 5,8(1,1-6,8)		6,5(2,5-6,8) / 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		1170 / 1200		1625 / 1760		2180 / 2220
Rated power input cooling / heating	W	1300 / 1400		1400 / 1550		2650 / 2650		2650 / 2800
Power current cooling / heating	A	3,80 / 3,92		5,20 / 5,30		7,20 / 7,80		9,70 / 9,80
Rated power current cooling / heating	A	6,0 / 6,7		6,5 / 7,8		11,8 / 11,8		9,8 / 12,4
SEER / SCOP	W/W	6,1 / 4,0		6,1 / 4,0		6,1 / 4,0		6,1 / 4,0
Energy class	-	A++ / A+		A++ / A+		A++ / A+		A++ / A+
Air flow	ID	m³/h	600/500/400/300		600/500/400/300		850/780/650/550	1000/800/700/550
	OD	m³/h	1600		1600		3200	4000
Sound pressure level	ID	dB(A)	42/39/34/28		42/40/35/30		48/43/40/35	51/47/42/39
	OD	dB(A)	51		53		56	58
Dehumidifying volume	/h		0,80		1,40		1,80	2,00
Refrigerant type / charge	type / kg	R410A / 0,70		R410A / 0,85		R410A / 1,35		R410A / 1,80
Pipe diameter	Liquid side	inch / mm	¼ / 6,4		¼ / 6,4		¼ / 6,4	¼ / 6,4
	Gas side	inch / mm	% / 9,52		% / 9,52		½ / 12,7	% / 15,9
Standard pipe length	m		5,0		5,0		5,0	5,0
Max. pipe length	m		15,0		15,0		25,0	25,0
Max. elevation / Drop height	m		10,0		10,0		10,0	10,0
Additional refrigerant	g/m		20		20		20	50
Dimension (w x h x d)	ID	mm	848x274x189		848x274x189		945x298x211	1018x315x230
	OD	mm	776x540x320		776x540x320		963x700x396	1000x790x427
Package dimension (w x h x d)	ID	mm	926x279x359		926x279x359		1013x383x300	1086x398x328
	OD	mm	851x595x363		851x595x363		1029x750x458	1083x855x488
Net/gross weight	ID	kg	9,5 / 11,5		9,5 / 11,5		12,0 / 15,0	15,0 / 18,5
	OD	kg	28,0 / 31,0		29,0 / 32,0		45,0 / 49,5	55,0 / 60,0
Set temperature range	°C		16 ~ 30		16 ~ 30		16 ~ 30	16 ~ 30
Operating temperature range	Cooling	°C	-15 ~ 48		-15 ~ 48		-15 ~ 48	-15 ~ 48
	Heating	°C	-20 ~ 24		-20 ~ 24		-20 ~ 24	-20 ~ 24

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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.

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WALL MOUNTED SPLIT AIR CONDITIONERS

ARCTIC SERIES

*From the top of
the world*

HEATING
TILL -30°C



ASH-13AIA PT ASH-18AIA PT

Energy class A++ / A++

3-year warranty

R410a environmentally friendly

Design silver panel

Standard filters-catechin and active carbon filter

New construction of compressor

Silver design of panel

Silent operation

Adjustable position of guide louver/ left-right swing

Cooling from -18°C to 54°C outdoor temperature

Heating from -18°C to 54°C outdoor temperature



PLASMA+TEC DC INVERTER



Wi-Fi

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

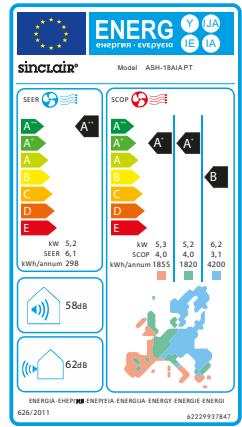


OPTIONAL ACCESSORIES

HEALTHY
FILTERS



TECHNICAL PARAMETERS



MODEL	ASH-13AIA PT			ASH-18AIA 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 / 220-242		1~ / 50 / 220-242	
	Unit	Outdoor		Outdoor	
Power input cooling / heating	W	920 / 970		1600 / 1420	
Rated power input cooling / heating	W	1550 / 1680		2050 / 2400	
Power current cooling / heating	A	4,1 / 4,2		7,1 / 6,2	
Rated power current cooling / heating	A	6,8 / 7,1		9,1 / 10,6	
SEER / SCOP	W/W	7,0 / 4,6		6,1 / 4,0	
Energy class	-	A++ / A++		A++ / A++	
Air flow	ID	m³/h	720/ 550/ 490/ 420/ 370/ 320/ 290	850/ 750/ 650/ 600/ 500/ 400/ 340	
	OD	m³/h	2400	3200	
Sound pressure level	ID	dB(A)	43/ 38/ 36/ 34/ 31/ 23/ 20	46/ 42/ 40/ 36/ 33/ 25/ 22	
	OD	dB(A)	50	56	
Dehumidifying volume	/h		1,40	1,80	
Refrigerant type / charge	type / kg	R410A / 1,3		R410A / 1,65	
Pipe diameter	Liquid side	inch / mm	1/4 / 6,4	1/4 / 6,4	
	Gas side	inch / mm	1/2 / 12,7	1/2 / 12,7	
Standard pipe length	m		5,0	5,0	
Max. pipe length	m		20,0	25,0	
Max. elevation / Drop height	m		10,0	10,0	
Additional refrigerant	g/m		20,0	20,0	
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	948x420x645	1029x458x750	
Net/gross weight	ID	kg	12,5 / 15,0	14,0 / 17,0	
	OD	kg	43,0 / 46,0	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	

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MULTI SYSTEM SERIES



MC-C12AI	MS-H09AISW PT
MC-C18AI	MS-H12AISW PT
MC-C24AI	MS-P09AI
MC-F09AI	MS-P12AI
MC-F12AI	MS-P18AI
MC-F18AI	MS-E18AIN
MC-F24AI	MS-E24AIN
MC-D09AI	MS-E28AIN
MC-D12AI	MS-E36AI
MC-D18AI	MS-E42AI
MC-D24AI	
MS-H07AICN PT	
MS-H09AICN PT	
MS-H12AICN PT	
MS-H18AICN PT	

3-year warranty
Flexible installation
Free combination up to 5 indoor units
Autorestart function
Precise temperature control
Set temperature range 16-30°C

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



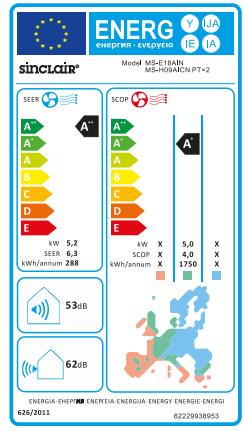
DC INVERTER



OPTIONAL ACCESSORIES



TECHNICAL PARAMETERS OUTDOOR UNITS



MODEL		MS-E18AIN	MS-E24AIN	MS-E28AIN
Capacity cooling / heating	kW	5,2(2,2-6,0) / 5,4(2,6-5,5)	7,1(2,3-8,5) / 8,5(3,7-8,8)	8,0(2,3-10,2) / 9,3(3,7-10,2)
Power input cooling / heating	kW	1,45 / 1,55	2,18 / 2,28	2,54 / 2,49
Power current cooling / heating	A	6,88 / 6,43	10,12 / 9,67	15,71 / 11,05
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	W/W	6,1 / 4,0	6,1 / 4,0	6,1 / 4,0
Energy class	-	A++ / A+	A++ / A+	A++ / A+
Air flow	m³/h	3200	3200	4000
Sound pressure level	dB(A)	56	58	58
Refrigerant	type / charge (kg)	R410A / 1,6	R410A / 2,2	R410A / 2,6
Pipe diameter	Liquid side	mm x qty	6,4x2	6,4x3
	Gas side	mm x qty	9,52x2	9,52x3
Max. length of connection pipe	m	20	60	70
Max. elevation/Drop height	m	5	10	10
Dimension (w x h x d)	mm	955x700x396	980x790x427	980x790x427
Package dimension (w x h x d)	mm	1029x750x458	1083x855x488	1083x855x488
Net/gross weight	kg	51,0 / 55,5	68,0 / 73,0	69,0 / 74,0
Operating temperature range	Cooling	°C	-15 ~ 43	-15 ~ 43
	Heating	°C	-20 ~ 24	-20 ~ 24

MODEL		MS-E36AI	MC-E42AI	
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	kW	3,50 / 3,75	3,59 / 3,55	
Power current cooling / heating	A	15,42 / 15,20	16,43 / 16,22	
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	
SEER / SCOP	W/W	5,5 / 3,8	5,1 / 3,8	
Energy class	-	A / A	A / A	
Air flow	m³/h	5200	5500	
Sound pressure level	dB(A)	60	54	
Refrigerant	type / charge (kg)	R410A / 4,3	R410A / 4,8	
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	80	
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	1158x1235x493	
Net/gross weight	kg	94,0 / 104,0	102,0 / 112,0	
Operating temperature range	Cooling	°C	-15 ~ 48	-15 ~ 48
	Heating	°C	-15 ~ 27	-15 ~ 27

The specification of products is subject to change based 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:

The specification of pressure setting of change-based function depends on the time of the pressure and can be changed manually or automatically according to the following conditions.

SEER/SCOP was calculated according to EN14825 for average season at part load conditions. 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.

FLEXIBLE INVERTER AIR CONDITIONERS

COMBINATION TABLE

MS-E18AIN		MS-E24AIN		MS-E28AIN		(unit: kW)	
1 MODEL	2 MODELS	2 MODELS	3 MODELS	2 MODELS	3 MODELS	4 MODELS	
2,1	2,1+2,1	2,1+2,1	2,1+2,1+2,1	2,1+2,1	2,1+2,1+2,1	2,1+2,1+2,1+2,1	
2,6	2,1+3,5	2,1+3,5	2,1+2,1+5,0	2,1+3,5	2,1+2,1+5,0	2,1+2,6+2,6+3,5	
3,5	2,6+3,5	2,6+2,6	2,1+2,6+5,0	2,6+2,6	2,1+2,6+5,0	2,1+2,1+2,1+2,6	
	2,1+2,6	2,6+5,0	2,6+2,6+3,5	2,6+5,0	2,6+2,6+2,6	2,1+2,1+2,6+2,6	
	2,6+2,6	3,5+5,0	3,5+3,5+3,5	3,5+5,0	2,6+3,5+3,5	2,6+2,6+2,6+2,6	
		2,1+2,6	2,1+2,1+2,6	2,1+2,6	3,5+3,5+5,0	2,1+2,1+2,1+3,5	
		2,1+5,0	2,1+2,6+2,6	2,1+5,0	2,1+2,1+2,6	2,1+2,1+2,6+3,5	
			2,6+3,5	2,1+3,5+3,5	2,1+2,6+2,6	2,1+2,6+2,6+2,6	
			3,5+3,5	2,1+2,1+3,5	3,5+3,5	2,1+3,5+3,5	
				2,1+2,6+3,5	5,0+5,0	2,6+2,6+3,5	
				2,6+2,6+2,6		2,6+3,5+5,0	
						2,1+2,1+3,5	
						2,1+2,6+3,5	
						2,1+3,5+5,0	
						2,6+2,6+5,0	
						3,5+3,5+3,5	

MS-E36AI							
2 MODELS		3 MODELS			4 MODELS		
2,1+3,5	2,6+7,1	2,1+2,1+2,1	2,1+3,5+5,0	2,6+3,5+5,0	2,1+2,1+2,1+2,1	2,1+2,1+5,0+5,0	2,6+2,6+2,6+2,6
2,1+5,0	3,5+3,5	2,1+2,1+2,6	2,1+3,5+7,1	2,6+3,5+7,1	2,1+2,1+2,1+2,6	2,1+2,6+2,6+2,6	2,6+2,6+2,6+3,5
2,1+7,1	3,5+5,0	2,1+2,1+3,5	2,1+5,0+5,0	2,6+5,0+5,0	2,1+2,1+2,1+3,5	2,1+2,6+2,6+3,5	2,6+2,6+2,6+5,0
2,6+2,6	3,5+7,1	2,1+2,1+5,0	2,1+5,0+7,1	2,6+5,0+7,1	2,1+2,1+2,1+5,0	2,1+2,6+2,6+5,0	2,6+2,6+3,5+3,5
2,6+3,5	5,0+5,0	2,1+2,1+7,1	2,6+2,6+2,6	3,5+3,5+3,5	2,1+2,1+2,1+7,1	2,1+2,6+3,5+3,5	2,6+2,6+3,5+5,0
2,6+5,0	5,0+7,1	2,1+2,6+2,6	2,6+2,6+3,5	3,5+3,5+5,0	2,1+2,1+2,6+2,6	2,1+2,6+3,5+5,0	2,6+3,5+3,5+3,5
		2,1+2,6+3,5	2,6+2,6+5,0	3,5+5,0+5,0	2,1+2,1+2,6+3,5	2,1+2,6+5,0+5,0	
		2,1+2,6+5,0	2,6+2,6+7,1		2,1+2,1+2,6+5,0	2,1+3,5+3,5+3,5	
		2,1+2,6+7,1	2,6+3,5+3,5		2,1+2,1+2,6+7,1		
		2,1+3,5+3,5			2,1+2,1+3,5+3,5		
					2,1+2,1+3,5+5,0		

MC-E42AI			
2 MODELS		3 MODELS	
2,1+5,0	2,6+7,1	2,1+2,1+2,1	2,1+3,5+7,1
2,1+7,1	3,5+3,5	2,1+2,1+2,6	2,1+5,0+5,0
2,6+3,5	3,5+5,0	2,1+2,1+3,5	2,6+7,1+7,1
2,6+5,0	3,5+7,1	2,1+2,1+5,0	2,1+7,1+7,1
	5,0+5,0	2,1+2,1+7,1	2,6+2,6+5,0
	5,0+7,1	2,1+2,6+2,6	3,5+3,5+7,1
	7,1+7,1	2,1+2,6+3,5	2,6+2,6+5,0
		2,1+2,6+5,0	3,5+5,0+5,0
		2,1+2,6+7,1	3,5+3,5+7,1
		2,1+3,5+3,5	3,5+7,1+7,1
		2,1+3,5+5,0	5,0+5,0+5,0
		2,1+3,5+7,1	5,0+5,0+7,1

4 MODELS							
5 MODELS							
2,1+2,1+2,1+2,1	2,1+2,1+5,0+5,0	2,1+3,5+3,5+5,0	2,6+2,6+5,0+5,0	2,1+2,1+2,1+2,1+2,1	2,1+2,1+2,6+2,6+2,6	2,1+2,6+2,6+2,6+2,6	2,6+2,6+2,6+2,6+2,6
2,1+2,1+2,1+2,6	2,1+2,1+5,0+7,1	2,1+3,5+3,5+7,1	2,6+2,6+5,0+7,1	2,1+2,1+2,1+2,1+2,6	2,1+2,1+2,6+2,6+3,5	2,1+2,6+2,6+2,6+3,5	2,6+2,6+2,6+2,6+3,5
2,1+2,1+2,1+3,5	2,1+2,6+2,6+2,6	2,1+3,5+5,0+5,0	2,6+3,5+3,5+3,5	2,1+2,1+2,1+2,1+3,5	2,1+2,1+2,6+2,6+5,0	2,1+2,6+2,6+2,6+5,0	2,6+2,6+2,6+2,6+5,0
2,1+2,1+2,1+5,0	2,1+2,6+2,6+3,5	2,1+3,5+5,0+7,1	2,6+3,5+3,5+5,0	2,1+2,1+2,1+2,1+5,0	2,1+2,1+2,6+2,6+7,1	2,1+2,6+2,6+3,5+3,5	2,6+2,6+2,6+3,5+3,5
2,1+2,1+2,1+7,1	2,1+2,6+2,6+5,0	2,1+5,0+5,0+5,0	2,6+3,5+5,0+5,0	2,1+2,1+2,1+2,1+7,1	2,1+2,1+2,6+3,5+3,5	2,1+2,6+2,6+3,5+5,0	2,6+2,6+3,5+3,5+3,5
2,1+2,1+2,6+2,6	2,1+2,6+2,6+7,1	2,6+2,6+2,6+2,6	2,6+3,5+5,0+5,0	2,1+2,1+2,1+2,6+2,6	2,1+2,1+2,6+3,5+5,0	2,1+2,6+3,5+3,5+3,5	
2,1+2,1+2,6+3,5	2,1+2,6+3,5+3,5	2,6+2,6+2,6+3,5	2,6+5,0+5,0+5,0	2,1+2,1+2,1+2,6+3,5	2,1+2,1+2,6+3,5+3,5		
2,1+2,1+2,6+5,0	2,1+2,6+3,5+5,0	2,6+2,6+2,6+5,0	3,5+3,5+3,5+3,5	2,1+2,1+2,1+2,6+5,0	2,1+2,1+2,6+3,5+3,5		
2,1+2,1+2,6+7,1	2,1+2,6+3,5+7,1	2,6+2,6+2,6+7,1	3,5+3,5+3,5+5,0	2,1+2,1+2,1+3,5+3,5			
2,1+2,1+3,5+3,5	2,1+2,6+5,0+5,0	2,6+2,6+3,5+3,5	3,5+3,5+3,5+7,1	2,1+2,1+2,1+3,5+5,0			
2,1+2,1+3,5+5,0	2,1+2,6+5,0+7,1	2,6+2,6+3,5+5,0	3,5+3,5+5,0+5,0				
2,1+2,1+3,5+7,1	2,1+3,5+3,5+3,5	2,6+2,6+3,5+7,1					

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-E24AIN, MS-E28AI, MS-E36AI, MC-E42AI it is not allowed to install one indoor unit only. If the specification of outdoor unit gas valve is 3/8, but customer 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.

Model	MS-E18AIN	MS-E24AIN	MS-E28AIN	MS-E36AI	MC-E42AI
Max. connection pipe length	m	20	60	70	80
Max. connection pipe length (One indoor unit)	m	10	20	20	25
Max. installation altitude	Outdoor unit is installed under the lower side of indoor unit	m	5	10	15
	Outdoor unit is installed on the upper side of indoor unit	m	5	10	15
Max. connection pipe length (Under the condition of no need to charge the refrigerant, liquid pipe total length)	m	10	30	40	50
Refrigerant charge volume	g/m		20		22

TECHNICAL PARAMETERS

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	1/4 / 6,4	1/4 / 6,4		
	Gas side	% / 9,5	% / 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		
WALL MOUNTED		MS-H07AICN PT	MS-H09AICN PT	MS-H12AICN PT	MS-H18AICN PT
Capacity cooling / heating	kW	2,10 / 2,60	2,60 / 3,00	3,50 / 4,00	5,30 / 5,80
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Air flow	m³/h	580/500/400/300	600/500/400/300	600/500/400/300	850/780/650/550
Sound pressure level	dB(A)	41/39/34/28	42/39/34/28	42/40/35/30	48/43/40/35
Dehumidifying volume	l/h	0,6	0,8	1,4	1,8
Pipe diameter	Liquid side	1/4 / 6,4	1/4 / 6,4	1/4 / 6,4	1/4 / 6,4
	Gas side	% / 9,52	% / 9,52	% / 9,52	% / 12,7
Dimension (w x h x d)	mm	845x275x180	845x275x180	845x275x180	940x298x200
Package dimension (w x h x d)	mm	918x370x258	918x370x258	918x370x258	1013x383x300
Net/gross weight	kg	9,0 / 11,0	9,0 / 11,0	9,0 / 11,0	12,0 / 15,0
Controller	type	remote	remote	remote	dálkový bezdrátový
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	1/4 / 6,4	1/4 / 6,4	1/4 / 6,4	% / 9,5
	Gas side	% / 9,5	% / 9,5	% / 12,7	% / 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	5,0 / 5,5	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	46	39 / 35	
Pipe diameter	Liquid side	1/4 / 6,4	1/4 / 6,4	% / 9,5	
	Gas side	% / 9,5	% / 12,7	% / 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 (6,5 / 10,0)	18,0 / 23,0 (6,5 / 10,0)	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	40 / 33	42 / 34
Pipe diameter	Liquid side	1/4 / 6,4	1/4 / 6,4	1/4 / 6,4	% / 9,5
	Gas side	% / 9,5	% / 9,5	% / 12,7	% / 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
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	320-650	350-750	410-840	
Sound pressure level	dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/25	48/46/44/41/37/35/32	
Dehumidifying volume	l/h	0,8	1,4	1,8	
Pipe diameter	Liquid side	1/4 / 6,4	1/4 / 6,4	1/4 / 6,4	
	Gas side	% / 9,5	% / 9,5	% / 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	

The specification of products is subject to change based 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.

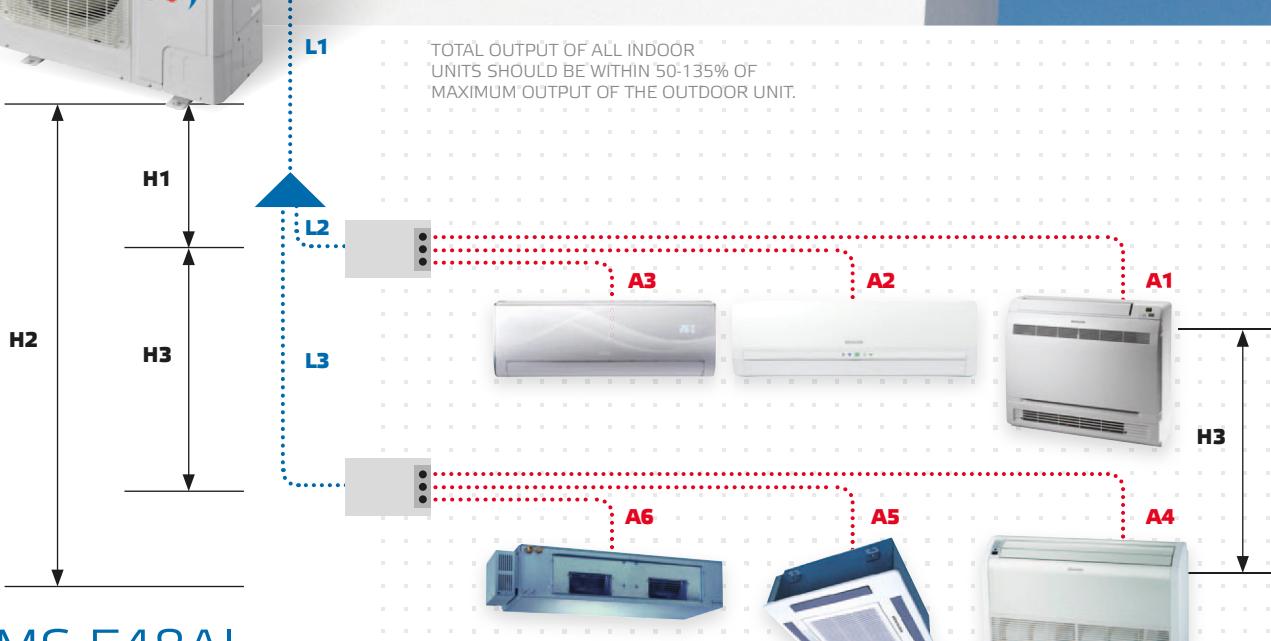
SEER/SCOP was calculated according to EN14825 for average season at part load conditions. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

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



(F.E. MS-E48AI SYSTEM CONNECTION)



MS-E48AI MS-E56AI

Connectivity starts at 2 and reaches up to 9 indoor units from multi system / multi combi series

Total pipe length 135/145m, total max. elevation 45m

Refrigerant pipes divided by branch joints and distributors

Central controller SCC-16 for indoor units

Automatic scanning of connected indoor units

Automatic addressing of indoor units

Service parameter setting / indication of the running mode/ error report notification

4-way outlet of refrigeration pipes

Pipe reduction (optional)

3-year warranty



DC INVERTER



BRANCH JOINTS

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

TECHNICAL PARAMETERS



MODEL		MS-E48AI	MS-E56AI
Cooling / Heating capacity	kW	14,0 / 16,0	16,0 / 18,0
Nominal power input cooling / heating	kW	4,40 / 4,25	5,00 / 4,70
EER/COP	-	2,9 / 3,2	2,8 / 3,5
Maximum NO. of connectable indoor units	-	8	9
Total capacity index of to be connected indoor units	%	50-135	
Power supply	Hz / V	3~ / 50 / 380-415	
Dimensions (WxDxH)	mm	900x1345x340	
Package dimensions (WxDxH)	mm	983x1398x443	
Net weight/Gross weight	kg	116 / 125	116 / 125
Sound pressure level	dB(A)	58	58
Air Flow Volume	m³/h	7000	7000
Refrigerant charge	kg	R410A / 4,95	R410A / 4,95
Piping connections gas/ liquid	mm	15,90 / 9,52	19,05 / 9,52
Max. total pipe length ($\Sigma L + \Sigma A$)	m	135	145
Max. total pipe length between OD and Dbox (ΣL)	m	55	
Max. total pipe length between Dbox and ID (ΣA)	m	80	90
Pipe length between Dbox and ID (A1,2,...)	m	15	
Max. height between OD and Dbox (H1)	m	30	
Max. height between OD and ID (H2)	m	30	
Max. height between DBoxes or IDs (H3)	m	15	
Operation range cooling/heating	°C (DB)	18-48/-10-24	
Prefilled length of refrigerant pipe	m	30	

DISTRIBUTION BOXES

DB2-19SB

DB3-19SB



MODEL		DB2-19SB	DB3-19SB
Maximum number of connectable indoor units	-	2	3
Power Supply	Hz / V	1~ / 50 / 220-240	
Connection port to outdoor unit gas/ liquid (inner diameter)	mm	19,3 / 9,7	19,3 / 9,7
Connection port to indoor unit gas/ liquid (inner diameter)	mm	16,3 / 6,2	16,3 / 6,2
Connection Method	-	brazed	brazed
Sound pressure level	dB(A)	28	28
Dimensions	mm	600x182x313	600x182x313
Net weight/Gross weight	kg	5,5 / 7,5	6,0 / 8,0

The specification of products is subject to change based 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.

HIGH POWER MULTI SYSTEM SERIES

MS-E48AI						
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
7+7+7+18	7+7+12+24	7+9+9+24	7+12+12+12	9+9+9+12	9+9+18+24	12+12+12+12
7+7+7+24	7+7+18+18	7+9+12+12	7+12+12+18	9+9+9+18	9+12+12+12	12+12+12+18
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	9+9+12+12+12
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+12	7+7+9+9+9+18	7+9+9+9+9+12	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+9+12+18	7+7+9+9+12+12	7+9+9+9+9+18	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+12	7+7+9+9+12+18	7+9+9+9+12+12	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+7+12+12+18	7+7+9+12+12+12	7+9+9+9+12+18	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+9	7+7+12+12+12+12	7+9+9+12+12+12	9+9+9+9+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+12	7+9+9+9+9+9	7+9+12+12+12+12	
7 UNITS						
7+7+7+7+7+7+7	7+7+7+7+7+9+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+19	7+7+7+7+7+9+19	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+7+9+9+9	7+7+7+7+9+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+9+9	7+7+7+7+7+7+9+12	7+7+7+7+7+9+9+9	7+7+7+7+7+9+9+12	7+7+7+7+7+9+9+9	7+7+7+7+7+9+9+9+9

(unit x1000Btu/h)

Big choice of indoor units for combination:
the model MS-E48AI offers 195 possible
combinations, model MS-E56AI has 286
possible combinations.



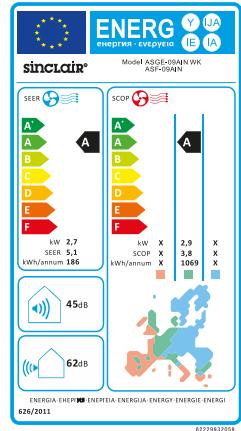
COMBINATION TABLE

MS-E56AI						
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+9+24	7+9+9+18	7+12+12+18	9+9+9+18	9+12+12+18	12+12+12+18
7+7+7+9	7+7+12+12	7+9+9+24	7+12+12+24	9+9+9+24	9+12+12+24	12+12+12+24
7+7+7+12	7+7+12+18	7+9+12+12	7+12+18+18	9+9+12+12	9+12+18+18	12+12+18+18
7+7+7+18	7+7+12+24	7+9+12+18	7+12+18+24	9+9+12+18	9+12+18+24	12+12+18+24
7+7+7+24	7+7+18+18	7+9+12+24	7+18+18+18	9+9+12+24	9+12+24+24	12+12+24+24
7+7+9+9	7+7+18+24	7+9+18+18	7+18+18+24	9+9+18+18	9+18+18+18	12+18+18+18
7+7+9+9	7+7+24+24	7+9+18+24	7+18+24+24	9+9+18+24	9+18+18+24	12+18+18+24
7+7+9+12	7+9+9+9	7+9+24+24	9+9+9+9	9+9+24+24	12+12+12+12	18+18+18+18
7+7+9+18	7+9+9+12	7+12+12+12	9+9+9+12	9+12+12+12		
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+12+24	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+18	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+9+18+24	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+12	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+18	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+12+24	7+7+9+9+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+7+12+18+18	7+7+9+9+12+18	7+9+9+9+9+12+18	9+9+9+9+9+18	9+9+12+12+12+18
7+7+7+7+9+18	7+7+7+9+9+12+12	7+7+9+9+9+9	7+7+9+9+12+12	7+9+9+9+9+9+9	9+9+9+9+9+12+12	9+12+12+12+12+12
7+7+7+7+9+24	7+7+7+9+9+12+12	7+7+9+9+9+12	7+7+9+9+12+18+18	7+9+9+9+9+12+12	9+9+9+9+9+12+12	12+12+12+12+12+12
7+7+7+7+12+12+12	7+7+7+7+9+9+18	7+7+9+9+9+18				
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+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+9+12+12+12+12	9+9+9+9+9+9+9+9
7+7+7+7+7+7+12	7+7+7+7+7+9+12+12	7+7+7+7+9+9+9+24	7+7+7+9+9+9+18	7+7+9+9+9+9+9+9	7+9+9+9+9+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+9+12+18	7+7+7+7+9+9+12+12	7+7+7+9+9+9+24	7+7+9+9+9+9+9+12	7+9+9+9+9+9+9+9+12	9+9+9+9+9+9+9+9+18
7+7+7+7+7+7+24	7+7+7+7+7+9+12+24	7+7+7+7+9+9+12+18	7+7+7+9+9+9+12+12	7+7+9+9+9+9+9+18	7+9+9+9+9+9+9+9+18	9+9+9+9+9+9+9+9+12+12
7+7+7+7+7+9+9	7+7+7+7+7+9+7+18	7+7+7+7+9+9+12+18	7+7+7+9+9+9+12+12	7+7+9+9+9+9+9+12+12	7+9+9+9+9+9+9+9+9+12+12	9+9+9+9+9+9+9+9+12+12+12
7+7+7+7+7+9+12	7+7+7+7+7+9+9+9	7+7+7+7+9+9+12+18	7+7+7+9+9+9+12+12	7+7+9+9+9+9+9+12+18	7+9+9+9+9+9+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+9+7+12	7+7+7+7+9+9+9+12	7+7+7+7+9+9+9+12+12	7+7+7+7+9+9+9+9+12	7+7+9+9+9+9+9+9+12
7+7+7+7+7+7+7+9	7+7+7+7+7+7+9+9+12	7+7+7+7+7+9+9+9+18	7+7+7+7+7+9+9+9+12	7+7+7+7+9+9+9+9+12+12	7+7+7+7+9+9+9+9+9+12+12	7+9+9+9+9+9+9+9+9+9+9
7+7+7+7+7+7+7+12	7+7+7+7+7+7+9+9+18	7+7+7+7+7+9+9+9+12	7+7+7+7+7+9+9+9+18	7+7+7+7+9+9+9+9+9+9	7+7+9+9+9+9+9+9+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+9+9+12+12	7+7+7+7+7+9+9+9+18				
9 UNITS						
7+7+7+7+7+7+7+7+7	7+7+7+7+7+7+7+9+9	7+7+7+7+7+7+9+7+12	7+7+7+7+7+9+9+9+12	7+7+7+7+7+9+9+9+12+12	7+7+7+7+7+9+9+9+9+12	7+7+9+9+9+9+9+9+9+12
7+7+7+7+7+7+7+7+9	7+7+7+7+7+7+7+9+9+12					

(unit x1000Btu/h)

FLOOR CEILING UNITS

NEW UNI DC INVERTER SERIES



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



ASF-XXAIN



ASGE-XXAIN WK

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



DC INVERTER

OPTIONAL ACCESSORIES

SCC-16



SDM-01



G25



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 - OD	kW	0,84 / 0,80		1,09 / 1,05		1,55 / 1,55		2,18 / 2,21		3,20 / 3,40	
Current cooling / heating - OD	A	3,9 / 3,7		5,0 / 4,9		7,2 / 7,2		10,10 / 10,20		15,00 / 15,80	
SEER / SCOP	W/W	6,1 / 3,8		6,1 / 4,0		6,1 / 4,0		5,6 / 4,0		6,1 / 4,0	
Energy class	-	A++ / A		A++ / A+		A++ / A+		A+ / A+		A++ / A+	
Air flow	ID	m³/h	600 / 550 / 450		700 / 600 / 500		1000 / 900 / 800		1200 / 1000 / 900		1900 / 1630 / 1520
	OD	m³/h	1600		1600		3200		4000		5300
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 / charge (kg)	R410A / 1,2		R410A / 1,2		R410A / 1,4		R410A / 2,2		R410A / 3,4	
Pipe diameter	Liquid side	inch / mm	1/4 / 6,4		1/4 / 6,4		1/4 / 6,4		% / 9,5		% / 9,5
	Gas side	inch / mm	% / 9,5		% / 9,5		1/2 / 12,7		% / 15,9		% / 15,9
Max. pipe length	m	20		20		20		30		50	
Max. elevation / Drop height	m	15		15		15		15		30	
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	848x540x320		848x540x320		955x700x396		980x790x427		1107x100x440
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)/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 - OD	kW	3,20 / 3,40		3,90 / 3,70		4,80 / 4,30		5,70 / 4,60			
Current cooling / heating - OD	A	4,9 / 4,6		5,2 / 5,1		6,2 / 6,5		7,4 / 7,2			
SEER / SCOP	W/W	6,1 / 4,0		5,6 / 4,0		5,6 / 4,0		5,1 / 4,0			
Energy class	-	A++ / A+		A+ / A+		A+ / A+		A / A+			
Air flow	ID	m³/h	1900 / 1630 / 1520		1900 / 1630 / 1520		2300 / 2100 / 1900		2500 / 2100 / 1900		
	OD	m³/h	5300		6200		6200		6500		
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 / charge (kg)	R410A / 3,5		R410A / 3,7		R410A / 4,0		R410A / 5,0			
Pipe diameter	Liquid side	inch / mm	% / 9,5		% / 9,5		% / 9,5		% / 9,5		
	Gas side	inch / mm	% / 15,9		% / 15,9		% / 15,9		% / 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	60		60		60		60			
Dimension (w x h x d)	ID	mm	1420x700x245		1420x700x245		1700x700x245		1700x700x245		
	OD	mm	1107x1100x440		958x1349x412		958x1349x412		1085x1365x427		
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 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:

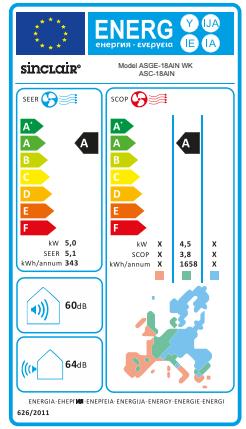
Length of connection pipe: 5m. Cooling: indoor temperature 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB. Heating condition: indoor temperature 20°C DB/15°C WB, outdoor temperature 7°C DB/6°C WB.

SEER/SCOP was calculated according to EN14825 for average season at part load conditions. 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.

CASSETTE UNITS

NEW UNI DC INVERTER SERIES



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
Condensate pump

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



DC INVERTER



ASC-XXAIN



ASGE-XXAIN WK

OPTIONAL ACCESSORIES



TECHNICAL PARAMETERS

MODEL-ID		ASC-12AIN ASGE-12AIN WK		ASC-18AIN ASGE-18AIN WK		ASC-24AIN ASGE-24AIN WK		ASC-36AIN ASGE-36AIN WK	
MODEL-OD									
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)	
Power supply	ID	Hz / V		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	
Power input cooling / heating		kW		1,09 / 1,05		1,55 / 1,64		2,18 / 2,21	
Current cooling / heating		A		5,0 / 4,9		7,2 / 7,6		10,1 / 10,2	
SEER / SCOP		W/W		5,6 / 4,0		5,6 / 3,8		6,1 / 4,0	
Energy class		-		A+ / A+		A+ / A		A++ / A+	
Air flow	ID	m³/h		700		760		1300	
	OD	m³/h		1800		3200		4000	
Sound pressure level	ID	dB(A)		46 / 45 / 41 / 37		47 / 46 / 44 / 37		47 / 46 / 42 / 38	
	OD	dB(A)		52		56		57	
Dehumidifying volume		l/h		1,2		1,8		2,4	
Refrigerant		type / charge (kg)		R410A / 1,2		R410A / 1,4		R410A / 2,2	
Pipe diameter	Liquid side	inch / mm		1/4 / 6,4		1/4 / 6,4		% / 9,5	
	Gas side	inch / mm		% / 9,5		1/2 / 12,7		% / 15,9	
Max. pipe length		m		20		20		30	
Max. elevation / Drop height		m		15		15		15	
Standard pipe length		m		7		7		7	
Additional refrigerant		g/m		30		30		60	
Dimension (w x h x d)	ID	mm		596x240x596		596x240x596		840x240x840	
	OD	mm		848x540x320		955x396x700		980x427x790	
	Panel	mm		650x50x650		650x50x650		950x60x950	
Package dimension (w x h x d)	ID	mm		773x300x733		773x300x733		963x325x963	
	OD	mm		881x363x595		1029x458x750		1083x488x855	
	Panel	mm		763x105x763		763x105x763		1028x130x1043	
Net/ gross weight	ID	kg		20,0 / 24,0		20,0 / 24,0		26,0 / 32,0	
	OD	kg		34,0 / 37,0		47,0 / 50,0		67,0 / 72,0	
	Panel	mm		3,5 / 5,0		3,5 / 5,0		7,0 / 11,0	
Operating temperature range	Cooling	°C		-15 ~ 48		-15 ~ 48		-15 ~ 48	
	Heating	°C		-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)	
Power supply	ID	Hz / V		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	
Power input cooling / heating		kW		3,20 / 3,50		3,90 / 3,80		4,60 / 4,50	
Current cooling / heating		A		5,4 / 5,8		6,7 / 6,6		8,9 / 7,8	
SEER / SCOP		W/W		6,1 / 4,0		6,1 / 4,0		5,6 / 3,8	
Energy class		-		A++ / A+		A++ / A+		A+ / A	
Air flow	ID	m³/h		1860		1860		2300	
	OD	m³/h		5100		6600		6600	
Sound pressure level	ID	dB(A)		51 / 49 / 46 / 43		51 / 49 / 46 / 43		53 / 52 / 47 / 41	
	OD	dB(A)		63		64		64	
Dehumidifying volume		l/h		3,4		3,7		4,5	
Refrigerant		type / charge (kg)		R410A / 3,5		R410A / 3,7		R410A / 4,0	
Pipe diameter	Liquid side	inch / mm		% / 9,5		% / 9,5		% / 9,5	
	Gas side	inch / mm		% / 15,9		% / 15,9		% / 19,1	
Max. pipe length		m		50		50		50	
Max. elevation / Drop height		m		30		30		30	
Standard pipe length		m		7		7		7	
Additional refrigerant		g/m		60		60		60	
Dimension (w x h x d)	ID	mm		840x320x840		840x320x840		910x290x910	
	OD	mm		1107x440x1100		958x412x1349		958x412x1349	
	Panel	mm		950x60x950		950x60x950		1040x65x1040	
Package dimension (w x h x d)	ID	mm		963x409x963		963x409x963		1023x375x993	
	OD	mm		1158x493x1236		1043x453x1500		1143x478x1505	
	Panel	mm		1028x130x1043		1028x130x1043		1137x140x1137	
Net/ gross weight	ID	kg		31,0 / 38,0		31,0 / 38,0		43,0 / 50,0	
	OD	kg		98,0 / 106,0		108,0 / 118,0		114,0 / 124,0	
	Panel	mm		7,0 / 11,0		7,0 / 11,0		8,0 / 12,0	
Operating temperature range	Cooling	°C		-15 ~ 48		-15 ~ 48		-15 ~ 48	
	Heating	°C		-15 ~ 24		-15 ~ 24		-15 ~ 24	

The specification of products is subject to change based 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:

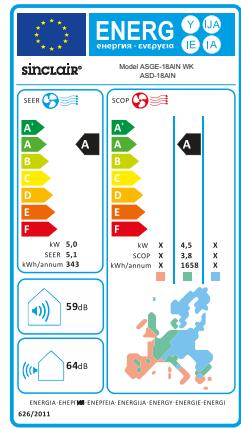
Length of connection pipe: 5m. Cooling: indoor temperature 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB. Heating condition: indoor temperature 20°C DB/15°C WB, outdoor temperature 7°C DB/6°C WB.

SEER/SCOP was calculated according to EN14825 for average season at part load conditions. 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.

DUCT UNITS

NEW UNI DC INVERTER SERIES



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



ASD-60AIN



ASD-12AIN



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

SCC-16

SDM-01

SND-01

G2S



TECHNICAL PARAMETERS

MODEL-ID		ASD-09AIN		ASD-12AIN		ASD-18AIN		ASD-24AIN		ASD-36AIN	
MODEL-OD		ASGE-09AIN WK		ASGE-12AIN WK		ASGE-18AIN WK		ASGE-24AIN WK		ASGE-36AIN WK	
Capacity cooling / heating	kW	2,7(0,8-3,4)/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	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	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	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Power input cooling / heating - OD	kW	0,84 / 0,80	1,17 / 1,05	1,60 / 1,58	2,18 / 2,21	3,20 / 3,40					
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	W/W	5,6 / 3,8	5,6 / 4,0	5,6 / 3,8	6,1 / 4,0	5,6 / 4,0					
Energy class	-	A+ / A	A+ / A+	A+ / A	A++ / A+	A+ / A+					
Air flow	ID	m³/h	650	750	1000	1400	2100				
	OD	m³/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 / charge (kg)	R410A / 1,2	R410A / 1,2	R410A / 1,4	R410A / 2,2	R410A / 3,5					
Pipe diameter	Liquid side	inch / mm	1/4 / 6,4	1/4 / 6,4	1/4 / 6,4	3/8 / 9,5	3/8 / 9,5				
	Gas side	inch / mm	3/8 / 9,5	3/8 / 9,5	1/2 / 12,7	1/2 / 12,7	1/2 / 15,9	1/2 / 15,9	1/2 / 15,9	1/2 / 15,9	
Max. pipe length	m	20	20	20	30	50					
Max. elevation / Drop height	m	15	15	15	15	30					
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	883x250x665	998x266x721	998x266x721	1239x268x558	1226x290x775				
	OD	mm	848x540x320	848x540x320	955x700x396	980x790x427	1107x100x440				
Package dimension (w x h x d)	ID	mm	1023x320x748	1123x323x798	1123x323x798	1348x283x597	1338x305x877				
	OD	mm	881x363x595	881x363x595	1029x458x750	1083x488x855	1158x493x1236				
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		ASD-36AIN		ASD-42AIN		ASD-48AIN		ASD-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(6,0-14,5)/15,5(5,2-17,0)	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	1~ / 50 / 220-240				
	OD	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415				
Power input cooling / heating - OD	kW	3,20 / 3,40	4,00 / 3,90	4,70 / 4,40	5,70 / 4,60						
Current cooling / heating - OD	A	4,8 / 4,7	5,5 / 4,9	6,4 / 6,7	7,8 / 7,4						
SEER / SCOP	W/W	5,1 / 4,0	5,6 / 4,0	5,6 / 3,8	5,6 / 3,8						
Energy class	-	A / A+	A+ / A+	A+ / A	A+ / A						
Air flow	ID	m³/h	2100	2100	2400	3000					
	OD	m³/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	3,8	4,6						
External static pressure - rated / range	Pa	37 / 0-150	37 / 0-150	50 / 0-150	50 / 0-150						
Refrigerant	type / charge (kg)	R410A / 3,5	R410A / 3,7	R410A / 4,0	R410A / 5,0						
Pipe diameter	Liquid side	inch / mm	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5					
	Gas side	inch / mm	3/8 / 15,9	3/8 / 15,9	3/8 / 15,9	3/8 / 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	60	60	60	60						
Dimension (w x h x d)	ID	mm	1226x290x775	1226x290x775	1340x350x750	1340x350x750					
	OD	mm	1107x1100x440	958x1349x412	958x1349x412	1085x1365x427					
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 / 53	56 / 65	56 / 65					
	OD	kg	98,0 / 106,0	108 / 118	114 / 124	126 / 138					
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 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 EN14825 for average season at part load conditions. 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.

SPLIT AIR CONDITIONERS

UNI ON/OFF SERIE



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

Anticorrosion treatment of exchangers
3-year warranty
Autorestart function

INDOOR UNITS ASC-60AN,
ASF-60AN ARE SOLD IN SET
WITH OUTDOOR UNIT.



ASDU-60A

ASGE-48AN WK



ASFU-48AN

STANDARD



OPTIONAL ACCESSORIES



ASC-60AN

STANDARD



ASF-60AN

OPTIONAL ACCESSORIES

CCM10E, CCM04, KJR-12B



TECHNICAL PARAMETERS

MODEL-ID			ASFU-48AN	ASCU-48AN	ASDU-48AN	ASDU-60A
MODEL-OD			ASGE-48AN WK	ASGE-48AN WK	ASGE-48AN WK	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	m³/h	2100 / 1900 / 1800	1660 / 1570 / 1500	1320 / 1090 / 910	2500 / 2070 / 1730
	OD	m³/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	50
Refrigerant	type / charge (kg)		R410A/3,8	R410A / 3,8	R410A / 3,8	R410A / 5,0
Pipe diameter	Liquid side	inch / mm	1/4 / 12	1/4 / 12	1/4 / 12	1/4 / 12
	Gas side	inch / mm	3/4 / 19	3/4 / 19	3/4 / 19	3/4 / 19
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
MODEL-ID			ASF-60AN	ASC-60AN		
MODEL-OD			ASF-60AN	ASC-60AN		
Capacity	Cooling	kW	15,2	15,0		
	Heating	kW	16,7	17,0		
Power supply	ID	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240		
	OD	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415		
Power input cooling / heating	W		5370 / 5400	6030 / 6410		
Current cooling / heating	A		9,27 / 9,32	10,41 / 11,07		
Air flow	ID	m³/h	2550 / 2150 / 1850	2100 / 1800 / 1600		
	OD	m³/h	7500	7500		
Sound pressure level	ID	dB(A)	55/52/50	55/50/47		
	OD	dB(A)	63	63		
External static pressure - rated / range	Pa		-	-		
Refrigerant	type / charge (kg)		R410A / 3,5	R410A / 3,5		
Pipe diameter	Liquid side	inch / mm	3/8 / 9,5	3/8 / 9,5		
	Gas side	inch / mm	3/4 / 19	3/4 / 19		
Max. pipe length	m		50	50		
Max. elevation / Drop height	m		25	25		
Standard pipe length	m		5	5		
Additional refrigerant	g/m		30	30		
Dimension (w x h x d)	ID	mm	1650x675x235	840x287x840		
	OD	mm	938x1369x392	938x1369x392		
	Panel	mm	-	950x55x950		
Package dimension (w x h x d)	ID	mm	1725x313x755	900x292x900		
	OD	mm	1095x1505x495	1095x1505x495		
	Panel	mm	-	1035x90x1035		
Net/ gross weight	ID	kg	40,0 / 46,0	28,3 / 32,5		
	OD	kg	111,1 / 125,4	111,1 / 125,4		
	Panel	kg	-	5/8		
Operating temperature range	Cooling	°C	18 ~ 43	18 ~ 43		
	Heating	°C	-7 ~ 24	-7 ~ 24		

The specification of products is subject to change based 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.

OUTDOOR UNITS

CONDENSING UNITS

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

Anticorrosion treatment of exchangers

Silent operation

Compact design

Throttle type-capillary*

3-year warranty

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

FOR THE BIG CONDENSING UNITS (ASE-76/96/120AH)
IT IS NECESSARY TO DESIGN CORRESPONDING SIZE
OF EVAPORATOR. ALSO IT IS NEEDED TO ADD NECESSARY
COMPONENTS OF COOLING CIRCUIT FOR THE RIGHT AND
RELIABLE FUNCTION OF THE UNIT.

ASE-48AH / ASE-60AH



ASE-120AH



TECHNICAL PARAMETERS



MODEL	ASE-48AH		ASE-60AH	
Capacity	Cooling	kW	14,1	17,6
	Heating	kW	15,2	19,1
Power supply	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415
Max. input consumption	W		6300	7500
Max. input current	A		12,5	12,8
Noise-outdoor unit	Max	dB(A)	64	64
Air flow	m ³ /h		8000	6850
Refrigerant	type / charge (kg)		R410A / 3,2	R410A / 3,2
Pipe diameter	Liquid side	inch / mm	½ / 12,7	½ / 12,7
	Gas side	inch / mm	¾ / 19,1	¾ / 19,1
Length of connection pipe	Max	m	50	50
Elevation/Drop height	Max	m	25	25
Dimension (w x h x d)	mm		900x1167x340	900x1167x340
Package dimension (w x h x d)	mm		1032x1307x443	1032x1307x443
Net weight	kg		110/115	106/111
Operating temperature range	Cooling	°C	18 ~ 43	18 ~ 43
	Heating	°C	-7 ~ 24	-7 ~ 24

MODEL	ASE-76AH		ASE-96AH		ASE-120AH
Capacity	Cooling	kW	22,0	28,0	35,0
	Heating	kW	25,0	31,0	38,0
Power supply	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415
Max. input consumption	W		11700	14400	17300
Max. input current	A		19,3	23,7	28,6
Noise-outdoor unit	Max	dB(A)	65	67	69
Air flow	m ³ /h		10000	10000	12000
Refrigerant	type / charge (kg)		R410A / 5,4	R410A / 6,0	R410A / 7,2
Pipe diameter	Liquid side	inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,7
	Gas side	inch / mm	¾ / 22,2	1 / 25,4	1 ½ / 28,6
Length of connection pipe	Max	m	50	50	50
Elevation/Drop height	Max	m	30	30	30
Dimension (w x h x d)	mm		1260x908x700	1260x908x700	1260x908x700
Package dimension (w x h x d)	mm		1320x1060x730	1320x1060x730	1320x1060x730
Net weight	kg		174/193	187/204	201/217
Operating temperature range	Cooling	°C	21 ~ 52	21 ~ 52	21 ~ 52
	Heating	°C	-10 ~ 24	-10 ~ 24	-10 ~ 24

The specification of products is subject to change based 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-11AN AMC-14AN

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



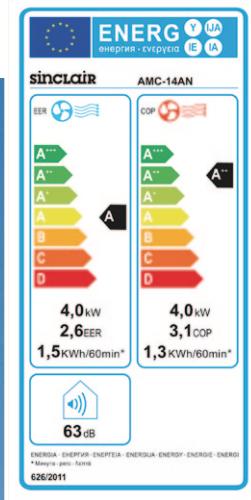
OPTIONAL ACCESSORIES

AK-15A

LEAVE THE NOISE OUTSIDE! WINDOW/WALL-MOUNTED KIT AK-15A MAKES IT POSSIBLE FOR UNITS AMC-11AN AND AMC-14AN TO BE PLACED OUTSIDE OF COOLED/HEATED AREA.



TECHNICAL PARAMETERS



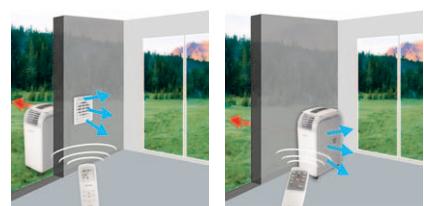
MODEL	AMC-11AN		AMC-14AN
Capacity	Cooling	kW	3,0
	Heating	kW	3,0
Optimal room size	m ²		15-25
Frekvence/Napětí	Hz / V		1~ / 50 / 220-240
Rated current	Cooling/Heating	A	5,8 / 5,0
Power input	Cooling/Heating	W	1280 / 1100
EER / COP	W/W		2,6 / 3,1
Energy class	Cooling/Heating		A / A++
Noise - indoor unit	Min/Max	dB(A)	52 / 62
Air flow	m ³ /h		400
Dehumidifying volume	l/h		2,0
Reftigerant type/ charge	kg		R410A/0,490
Global Warming Potencial	GWP value		2088
Dimension (w x h x d)	mm		300x778x505
Package dimension (w x h x d)	mm		330x815x550
Net weight	kg		26,0 / 28,5
Operating temperature	Cooling	°C	17 ~ 30
	Heating	°C	15 ~ 25

R410A (50% HFC-32, 50% HFC-125), GWP 2088

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Hermetically sealed system.

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

PORTABLE SERIES

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)



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	W	280	380	740
Rated current	A	1,7	1,7	3,5
Sound pressure level	dB	45 / 43	45 / 43 / 41	46 / 44
Air flow	m³/h	100 / 80	150 / 130 / 115	300 / 200
Water tank volume	l	3,0	4,9	4,0
Optimal room size	m²	20	28	40
Refrigerant* / charge	type / kg	R134A / 0,12	R134A / 0,20	R410A / 0,30
Dimension (w x h x d)	mm	353x496x225	343x523x270	515x510x238
Package dimension (w x h x d)	mm	393x510x271	393x540x312	575x565x290
Net/ gross weight	kg	12,0 / 13,0	14,5 / 16,0	18,5 / 20,5
Operating temperature	°C	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 DE-HUMIDIFIER 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

SP-300A

Anion generator
Odor control
Electrostatic de-dusting mode
Auto detecting of air quality
Odor&dust sensor with red / orange / green light
Timer
Filter change monitor
Remote controller, set of filters SPF-300
2-year Warranty



TECHNICAL PARAMETERS



MODEL		SP-300A
Recommended cleaning area	m ²	15 / 41
Frequency	Hz	50
Voltage	V	220-240
Rated current	A	0,42
Power input	W	95 / 85 / 75 / 60
Noise - indoor unit	dB(A)	53 / 48 / 38 / 28
Air flow volume	m ³ /h	300 / 230 / 150 / 75
Air filtration system	type	Pre-filter, HIMOP filter, HEPA filter, Active charcoal filter, Anion generator
Dimension (w x h x d)	mm	396x576x245
Package dimension (w x h x d)	mm	435x615x300
Net weight	kg	10

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.

OPTIONAL ACCESSORIES



NEW

SINCLAIR COMMUNICATION MODULE SCMI-01

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.



DOOR MODULE SDM-01

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

DISPLAY BOARD SND-01

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 DO signal receiver, too.

CONVERTER SDC-01, SIC-01

Communication converter is used for detection of communication protocol and for communication with PC for diagnosis of the units series NEW UNI DC INVERTER and S-THERM heat pumps.



Note: It cannot be used on wall mounted and console type indoor unit.



CENTRALIZED CONTROL AND WEEKLY TIMER **SCC-16**

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.

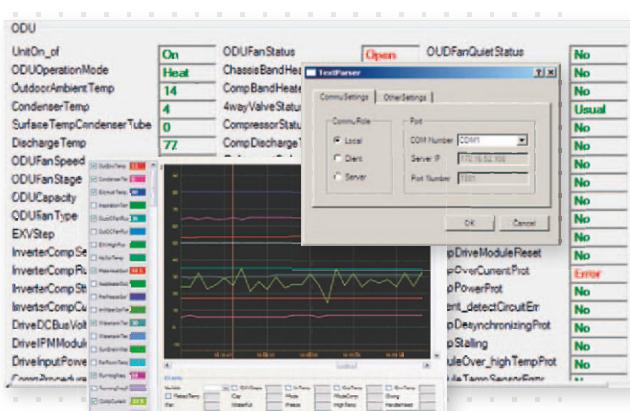
The central controller can be used for the units which are equipped with the wire controller.



MODUL GSM **G2S**

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.



SOFTWARE **TEXT PARSER**

Text parser programme is used for diagnosis of connected devices (NEW UNI DC INVERTER series unit, S-THERM heat pumps) in real time. It identifies connected devices and starts communication automatically.

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