



RESIDENTIAL
AIR CONDITIONING
2018-2019



SINCLAIR
AIR CONDITIONING

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 VARIABLE SERIES with energy-saving technology DC INVERTER.

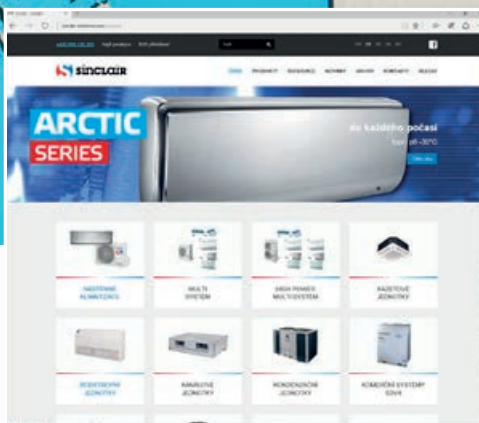
From the very beginning Sinclair has set its main target to bring quality and comfort to the life of people of the Blue Planet. Thanks to the attention paid to research, development, manufacturing and product testing as well as to the after sales support, Sinclair has reached a high level of quality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

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 and becoming heavier 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 PLASMA+TEC.



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 consumption 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 and console 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 sulphide 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

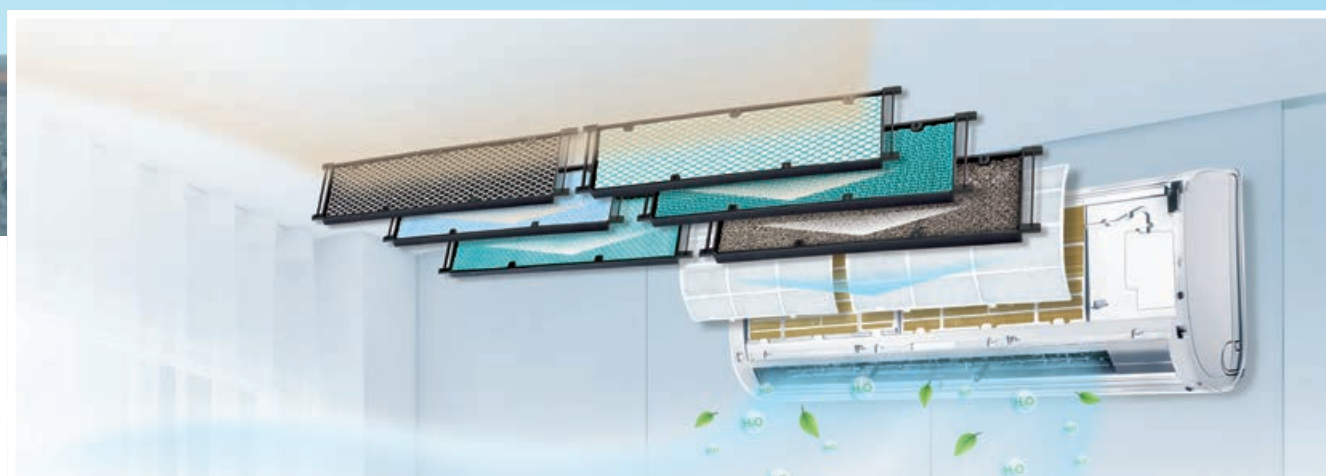
Silver ion filter is an entirely new kind of powerful sterilizing product. Silver ions are odorless and colorless and have no side effects, such as irritation, pollution or volatility. After sterilization the ions recycle themselves, therefore have a long lifespan and effectively prevent bacterial growth. 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).



OPTIONAL HEALTH FILTER SELECTION

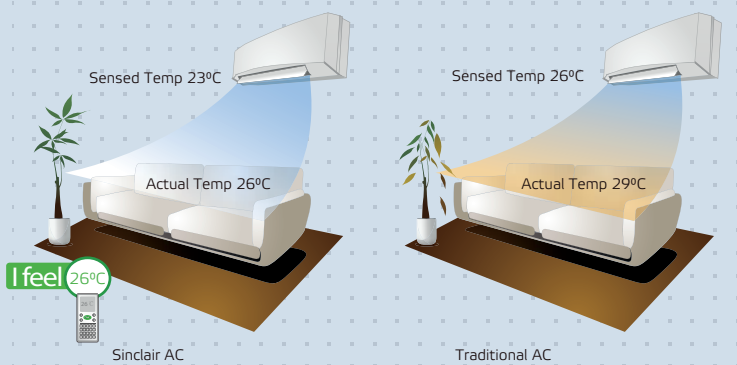
SAF-OPWC1, SAF-OPWA1, SAF-OPWB1, SAF-OPWS1, SAF-OPWE1, SAF-OPWP1 only Focus series

SAF-OPWC4, SAF-OPWA4, SAF-OPWB4, SAF-OPWS4, SAF-OPWE4, SAF-OPWP4 for all other wall mounted units and console units

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 keeping a reliable operation. As the outdoor temperature changes, the frequency of compressor and the speed of fan adjusts accordingly.

-30°C HEATING

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

8°C HEATING

Maintains the room temperature steadily at 8°C and prevents 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.



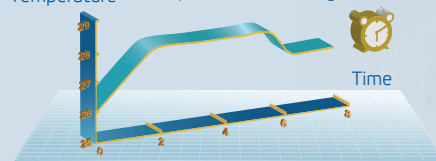
COMFORTABLE SLEEP MODE

MODE 1: Indoor temperature automatically rises (when cooling) or drops (when heating).

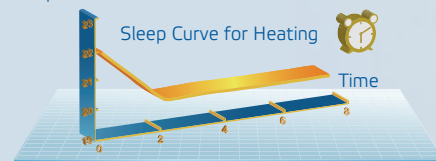
MODE 2: Featuring unique refreshment function, the temperature is automatically adjusted to be a little lower before you wake up.

MODE 3: You may design your own sleep curve under DIY mode.

Temperature Sleep Curve for Cooling



Temperature Sleep Curve for Heating



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
	Refrigerant		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
	24-hour timer		I feel
	Clock display		7 speeds of fan
	WiFi function		Fresh air ventilation
	Dehumidifying mode		Optional health filters

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



VISION SERIES



ECOLOGICAL REFRIGERANT R32



ASH-09BIV
ASH-12BIV
ASH-18BIV
ASH-24BIV

- Energy class A++ / A+
- Dual side water outlet
- Hidden display
- Function "I FEEL"



PLASMA+TEC DC INVERTER

STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC4 and active carbon filter SAF-OPWA4
- Cold plasma generator
- WiFi module
- Crankcase heater

TECHNICAL PARAMETERS



MODEL			ASH-09BIV	ASH-12BIV	ASH-18BIV	ASH-24BIV
Capacity cooling / heating	kW		2,6 / 2,9	3,2 / 3,5	4,6 / 5,2	6,2 / 6,5
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		6,1 / 4,0	6,1 / 4,0	6,1 / 4,0	6,1 / 4,0
Energy class cooling/ heating (A, W, C)	-		A++ / (A+, A+++ , B)	A++ / (A+, A+++ , -)	A++ / (A+, A+++ , -)	A++ / (A+, A+++ , -)
Sound pressure level at 1m	ID	dB(A)	39 / 36 / 32 / 28	42 / 37 / 34 / 28	49 / 45 / 41 / 36	48 / 44 / 40 / 34
	OD	dB(A)	52	52	54	57
Dimension (w x h x d)/Net weight	ID	mm/kg	790 x 275 x 200 / 9,0	790 x 275 x 200 / 9,0	970 x 300 x 224 / 13,5	1078 x 325 x 246 / 13,5
	OD	mm/kg	782 x 540 x 320 / 29,5	848 x 596 x 320 / 31,0	848 x 596 x 320 / 34,0	963 x 700 x 396 / 46,0
Operating temperature range cooling/heating	°C		-15-43 / -15-24	-15-43 / -15-24	-15-43 / -15-24	-15-43 / -15-24

ID/OD= Indoor unit/Outdoor unit; A,W,C= average,warmer,colder climate

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

OPTIONAL ACCESSORIES

- Health filters
- GSM module G2S

FOCUS SERIES



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

- Energy class A++ / A+
- Dual side water outlet
- Hidden display
- Function "I FEEL"



PLASMA+TEC DC INVERTER

STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC1 and active carbon filter SAF-OPWA1
- Cold plasma generator
- WiFi module
- Dry on/off contact
- Crankcase heater, chassis heater

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
SEER / SCOP	-		6,1 / 4,0	6,1 / 4,0	6,1 / 4,0	6,3 / 4,0
Energy class cooling/ heating (A, W, C)	-		A++ / (A+, A++, A)	A++ / (A+, A+++, A)	A++ / (A+, A+++, A)	A++ / (A+, A+++, B)
Sound pressure level at 1m	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
Dimension (w x h x d)/Net weight	ID	mm/kg	790 x 275 x 200 / 9,0	845 x 289 x 209 / 10,5	970 x 300 x 224 / 13,5	1078 x 325 x 246 / 16,5
	OD	mm/kg	776 x 540 x 320 / 29,5	848 x 596 x 320 / 31,0	899 x 596 x 378 / 39,0	955 x 700 x 396 / 52,5
Operating temperature range cooling/heating	°C		-15-43 / -22-24	-15-43 / -22-24	-15-43 / -22-24	-15-43 / -22-24

ID/OD= Indoor unit/Outdoor unit; A,W,C= average,warmer,colder climate

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

OPTIONAL ACCESSORIES

- Health filters
- GSM module G2S
- Wired controller SWC-02
- Central controller SCC-16

FOCUS PLUS SERIES



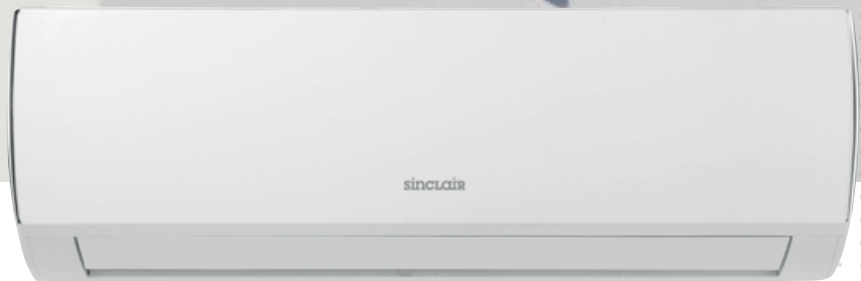
ECOLOGICAL REFRIGERANT R32



NEW

ASH-09BIF2
ASH-13BIF2
ASH-18BIF2
ASH-24BIF2

- Energy class A++ / A+
- Dual side water outlet
- Hidden display
- 7 speeds of fan
- 8°C heating



PLASMA+TEC DC INVERTER

STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC4 and biological filter SAF-OPWB4
- Cold plasma generator
- WiFi module
- Dry on/off contact
- Crankcase heater, chassis heater

TECHNICAL PARAMETERS



MODEL			ASH-09BIF2	ASH-13BIF2	ASH-18BIF2	ASH-24BIF2
Capacity cooling / heating	kW		2,7 / 2,8	3,5 / 3,7	5,2 / 5,3	7,0 / 7,4
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		6,8 / 4,0	7,0 / 4,0	7,0 / 4,0	6,5 / 4,0
Energy class cooling/ heating (A, W, C)	-		A++ / (A+, A+++ , B)	A++ / (A+, A+++ , B)	A++ / (A+, A+++ , A)	A++ / (A+, A+++ , B)
Sound pressure level at 1m	ID	dB(A)	41 / 37 / 35 / 32 / 29 / 26 / 24	42 / 38 / 35 / 32 / 30 / 28 / 26	45 / 43 / 41 / 38 / 35 / 34 / 31	48 / 45 / 42 / 39 / 37 / 36 / 33
	OD	dB(A)	50	52	57	57
Dimension (w x h x d)/Net weight	ID	mm/kg	790 x 275 x 200 / 9,0	845 x 289 x 209 / 10,5	970 x 300 x 224 / 13,5	1078 x 325 x 246 / 16,5
	OD	mm/kg	782 x 540 x 320 / 27,5	848 x 596 x 320 / 31,0	965 x 700 x 396 / 45,0	955 x 700 x 396 / 53,5
Operating temperature range cooling/heating	°C		-15-43 / -22-24	-15-43 / -22-24	-15-43 / -22-24	-15-43 / -22-24

ID/OD= Indoor unit/Outdoor unit; A,W,C= average,warmer,colder climate

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

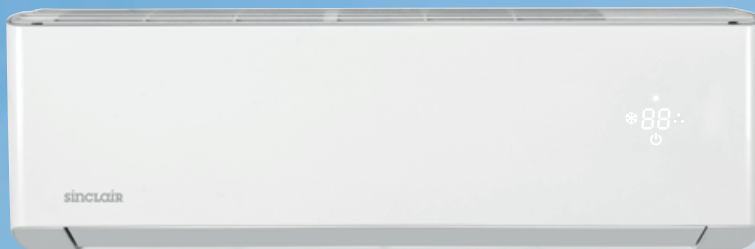
OPTIONAL ACCESSORIES

- Health filters
- GSM module G2S
- Wired controller SWC-02
- Central controller SCC-16

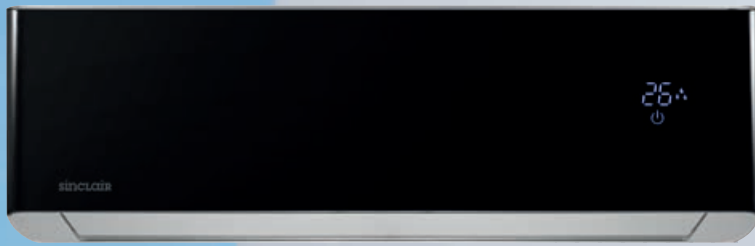
SPECTRUM SERIES



ECOLOGICAL REFRIGERANT R32



ASH-XXBIS/W



ASH-XXBIS/B



NEW

ASH-09BIS/W, ASH-09BIS/B
ASH-13BIS/W, ASH-13BIS/B
ASH-18BIS/W, ASH-18BIS/B
ASH-24BIS/W, ASH-24BIS/B

- Energy class A++ / A+
- Dual side water outlet
- Hidden display
- 7 speeds of fan
- Soft start



PLASMA+TEC DC INVERTER

STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC4 and active carbon filter SAF-OPWA4
- Cold plasma generator
- WiFi module
- Dry on/off contact
- Crankcase heater, chassis heater

TECHNICAL PARAMETERS



MODEL			ASH-09BIS/W, ASH-09BIS/B	ASH-13BIS/W, ASH-13BIS/B	ASH-18BIS/W, ASH-18BIS/B	ASH-24BIS/W, ASH-24BIS/B
Capacity cooling / heating	kW		2,7 / 2,9	3,5 / 3,8	5,3 / 5,6	7,0 / 7,2
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		8,5 / 4,6	8,5 / 4,4	7,6 / 4,1	7,0 / 4,0
Energy class cooling/ heating (A, W, C)	-		A+++ / (A++, A+++ , A)	A+++ / (A+, A+++ , A)	A++ / (A+, A+++ , A)	A++ / (A+, A+++ , A)
Sound pressure level at 1m	ID	dB(A)	41 / 39 / 37 / 35 / 33 / 31 / 24	43 / 39 / 37 / 35 / 34 / 32 / 25	49 / 45 / 43 / 41 / 39 / 37 / 34	49 / 47 / 44 / 42 / 40 / 38 / 36
	OD	dB(A)	52	53	57	60
Dimension (w x h x d)/Net weight	ID	mm/kg	865 x 290 x 210 / 10,5	865 x 290 x 210 / 11,0	996 x 301 x 225 / 13,5	1101 x 327 x 249 / 16,5
	OD	mm/kg	848 x 596 x 320 / 33,5	848 x 596 x 320 / 33,5	955 x 700 x 396 / 45,0	955 x 700 x 396 / 53,0
Operating temperature range cooling/heating	°C		-15-43 / -22-24	-15-43 / -22-24	-15-43 / -22-24	-15-43 / -15-24

ID/OD= Indoor unit/Outdoor unit; A,W,C= average,warmer,colder climate

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Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

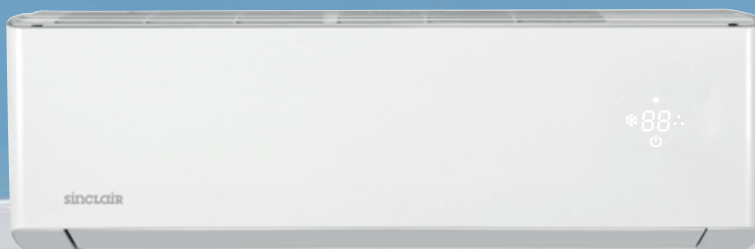
OPTIONAL ACCESSORIES

- Health filters
- GSM module G2S
- Wired controller SWC-02
- Central controller SCC-16

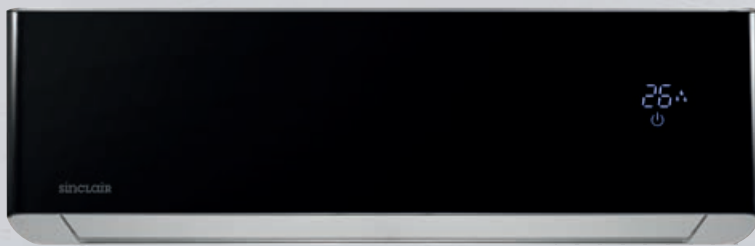
SPECTRUM PLUS SERIES



ECOLOGICAL REFRIGERANT R32



ASH-XXBIS2/W



ASH-XXBIS2/B

NEW

ASH-09BIS2/W, ASH-09BIS2/B
ASH-13BIS2/W, ASH-13BIS2/B
ASH-18BIS2/W, ASH-18BIS2/B
ASH-24BIS2/W, ASH-24BIS2/B

- Energy class A++ / A+
- Dual side water outlet
- Hidden display
- 7 speeds of fan
- 2-stage compressor
- Automatic mode with adjustable temperature
- Adjustable heating range 8-30°C
- Low ambient heating -30°C
- Horizontal and vertical guide louver swing



PLASMA+TEC DC INVERTER



STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC4 and silver filter SAF-OPWS4
- Cold plasma generator
- WiFi module
- Dry on/off contact
- Crankcase heater, chassis heater

TECHNICAL PARAMETERS



MODEL			ASH-09BIS2/W, ASH-09BIS2/B	ASH-13BIS2/W, ASH-13BIS2/B	ASH-18BIS2/W, ASH-18BIS2/B	ASH-24BIS2/W, ASH-24BIS2/B
Capacity cooling / heating	kW		2,7 / 3,5	3,5 / 4,2	5,3 / 5,6	7,0 / 7,0
Power supply	Hz / V		1~ / 50/60 / 220-240	1~ / 50/60 / 220-240	1~ / 50/60 / 220-240	1~ / 50/60 / 220-240
SEER / SCOP	-		8,5 / 5,1	8,5 / 5,1	6,6 / 4,4	6,5 / 4,1
Energy class cooling/ heating (A, W, C)	-		A+++ / (A+++, A+++, A+)	A+++ / (A+++, A+++, A+)	A++ / (A+, A+++)	A+ / (A+, A+++)
Sound pressure level at 1m	ID	dB(A)	43 / 41 / 38 / 36 / 33 / 31 / 18	46 / 43 / 41 / 38 / 36 / 34 / 21	48 / 45 / 43 / 40 / 37 / 35 / 33	50 / 46 / 43 / 41 / 39 / 37 / 35
	OD	dB(A)	53	54	56	58
Dimension (w x h x d)/Net weight	ID	mm/kg	996 x 301 x 225 / 13,0	996 x 301 x 225 / 13,5	1101 x 327 x 249 / 16,5	1101 x 327 x 249 / 16,5
	OD	mm/kg	899 x 596 x 378 / 44,5	899 x 596 x 378 / 45,5	980 x 790 x 427 / 62,5	980 x 790 x 427 / 65,0
Operating temperature range cooling/heating	°C		-18-52 / -30-24	-18-54 / -30-24	-18-52 / -30-24	-18-52 / -30-24

ID/OD= Indoor unit/Outdoor unit; A,W,C= average,warmer,colder climate

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

OPTIONAL ACCESSORIES

- Health filters
- GSM module G2S
- Wired controller SWC-02
- Central controller SCC-16

CONSOLE SERIES



R410A
REFRIGERANT



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

- Energy class A++ / A+
- Dual side water outlet
- 7 speeds of fan
- Dual air outlet for heating

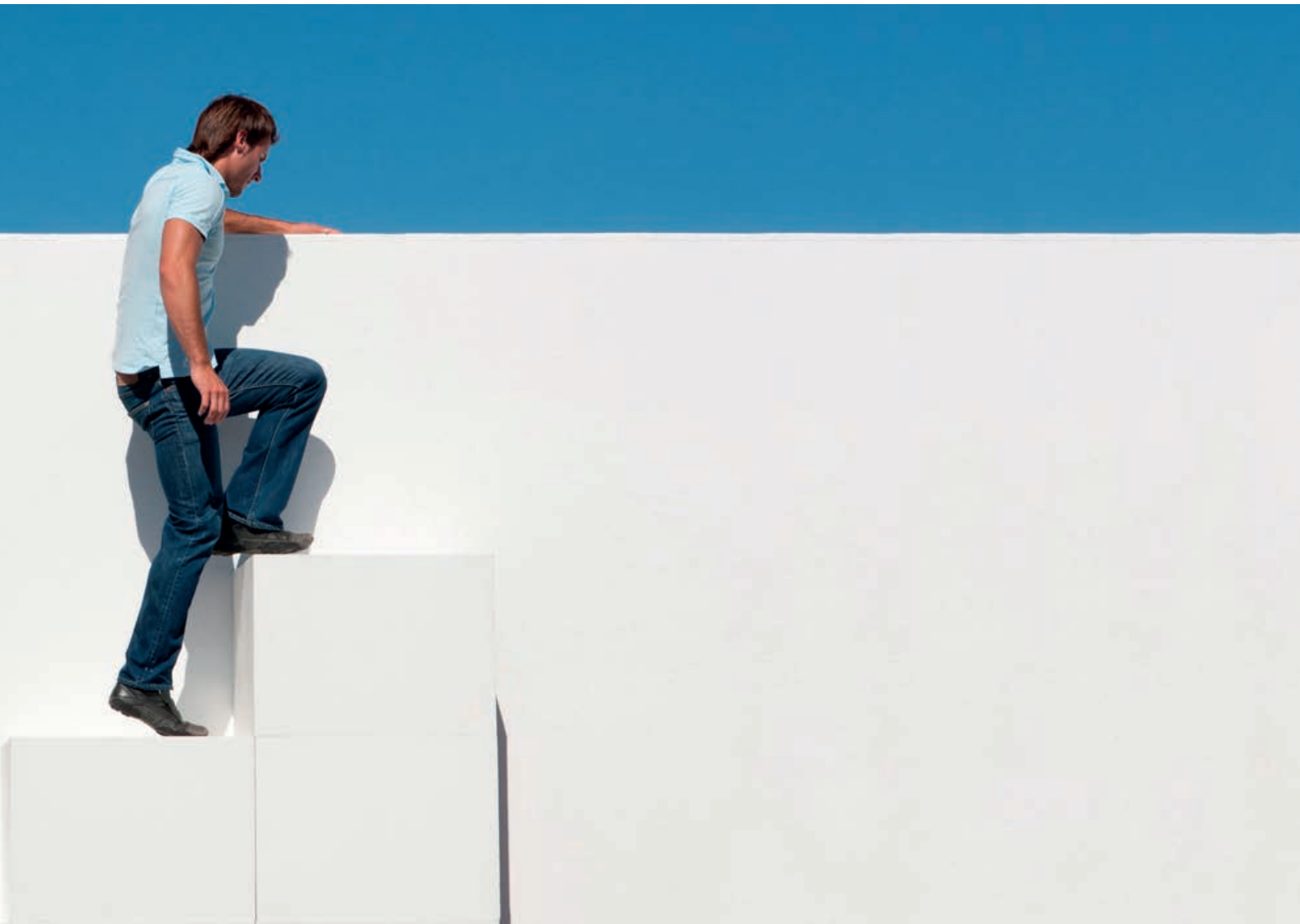


PLASMA+TEC DC INVERTER

STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC4 and active carbon filter SAF-OPWA4
- Cold plasma generator
- WiFi module
- Dry on/off contact
- Crankcase heater, chassis heater

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	
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+	
Sound pressure level at 1m	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	
Dimension (w x h x d)/Net weight	ID	mm/kg	700 x 215 x 600 / 15,5	700 x 215 x 600 / 15,5	700 x 215 x 600 / 15,5	
	OD	mm/kg	776 x 540 x 320 / 31,0	776 x 540 x 320 / 31,5	955 x 700 x 396 / 46,0	
Operating temperature range cooling/heating	°C		-15-43 / -22-24	-15-43 / -22-24	-15-43 / -22-24	

ID/OD= Indoor unit/Outdoor unit;

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

OPTIONAL ACCESSORIES

- Health filters
- GSM module G2S
- Wired controller SWC-02
- Central controller SCC-16

UNI SPLIT SERIES



ECOLOGICAL REFRIGERANT R32



ASC-18BI ASC-42BI
ASC-24BI ASC-48BI
ASC-30BI ASC-60BI
ASC-36BI

- Autorestart function
- 3-D spiral fan
- 4-way air outlet
- Water pump
- Dry on/off contact
- Fresh air supply
- Optional WiFi module



ASC-XXBI

ASGE-XXBI-3



ASGE-XXBI



DC INVERTER

MODEL		ASGE-18BI ASC-18BI	ASGE-24BI ASC-24BI	ASGE-30BI ASC-30BI	ASGE-36BI ASC-36BI	
Capacity cooling / heating	kW	5,0 / 5,5	7,0 / 8,0	8,5 / 8,8	10,0 / 12,0	
Power supply -OD*	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
SEER / SCOP	-	5,9 / 4,0	7,2 / 3,9	6,1 / 4,0	6,1 / 4,0	
Energy class cooling/ heating (Average)	-	A+ / A	A++ / A	A++ / A+	A++ / A+	
Sound pressure level at 1,4m	ID	44 / 39 / 36 / 33	43 / 42 / 40 / 39	49 / 47 / 44 / 41	50 / 48 / 46 / 42	
	OD	50	52	53	55	
Dimension (w x h x d)/Net weight	ID	570x265x570 / 17	840x240x840 / 29	840x240x840 / 29	840x240x840 / 31	
	OD	818x596x302 / 39	892x698x340 / 53	920x790x370 / 60	940x820x460 / 83	
	Panel	620x47.5x620 / 3	950x52x950 / 6	950x52x950 / 6	950x52x950 / 6	
Operating temperature range cooling/heating	°C	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	

MODEL		ASGE-36BI-3 ASC-36BI	ASGE-42BI-3 ASC-42BI	ASGE-48BI-3 ASC-48BI	ASGE-60BI-3 ASC-60BI	
Capacity cooling / heating	kW	10,0 / 12,0	12,1 / 13,5	13,4 / 15,5	16,0 / 17,0	
Power supply -OD*	Hz / V	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	
SEER / SCOP	-	6,1 / 4,0	6,1 / 3,8	6,1 / 4,0	6,1 / 3,8	
Energy class cooling/ heating (Average)	-	A++ / A+	A++ / A	A++ / A+	A++ / A	
Sound pressure level at 1,4m	ID	50 / 48 / 46 / 42	51 / 49 / 46 / 42	52 / 51 / 48 / 45	54 / 52 / 50 / 48	
	OD	55	56	57	57	
Dimension (w x h x d)/Net weight	ID	840x240x840 / 31	840x240x840 / 33	840x240x840 / 36	840x240x840 / 36	
	OD	940x820x460 / 89	940x820x460 / 95	940x820x460 / 99	900x1345x340 / 112	
	Panel	950x52x950 / 6	950x52x950 / 6	950x52x950 / 6	950x52x950 / 6	
Operating temperature range cooling/heating	°C	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	

FLOOR-CEILING UNITS



ECOLOGICAL REFRIGERANT R32

ASF-12BI ASF-36BI
 ASF-18BI ASF-42BI
 ASF-24BI ASF-48BI
 ASF-30BI ASF-60BI

- Autorestart function
- Dry on/off contact
- Optional WiFi module

ASF-XXBI



ASGE-XXBI-3



ASGE-XXBI



DC INVERTER

MODEL			ASGE-12BI ASF-12BI	ASGE-18BI ASF-18BI	ASGE-24BI ASF-24BI	ASGE-30BI ASF-30BI	ASGE-36BI ASF-36BI
Capacity cooling / heating	kW		3,5 / 4,0	5,0 / 5,5	7,0 / 8,0	8,5 / 8,8	10,0 / 12,0
Power supply -OD*	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		6,1 / 4,0	6,1 / 4,0	6,8 / 4,0	6,1 / 4,0	6,1 / 4,0
Energy class cooling/ heating (Average)	-		A++ / A+	A++ / A+	A++ / A	A++ / A+	A++ / A+
Sound pressure level at 1m	ID	dB(A)	39/36/32/28	44 / 42 / 39 / 36	45 / 44 / 41 / 38	49 / 47 / 45 / 43	49 / 47 / 45 / 43
	OD	dB(A)	50	50	52	53	55
Dimension (w x h x d)/Net weight	ID	mm/kg	870x665x235 / 25	870x665x235 / 26	1200x665x235 / 31	1200x665x235 / 31	1200x665x235 / 32
	OD	mm/kg	818x596x302 / 37	818x596x302 / 39	892x698x340 / 53	920x790x370 / 60	940x820x460 / 83
Operating temperature range cooling/heating	°C		-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24

MODEL			ASGE-36BI-3 ASF-36BI	ASGE-42BI-3 ASF-42BI	ASGE-48BI-3 ASF-48BI	ASGE-60BI-3 ASF-60BI	
Capacity cooling / heating	kW		10,0 / 12,0	12,1 / 13,5	13,4 / 15,5	16,0 / 17,0	
Power supply -OD*	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	
SEER / SCOP	-		6,1 / 4,0	5,8 / 3,8	5,4 / 3,7	6,1 / 4,0	
Energy class cooling/ heating (Average)	-		A++ / A+	A++ / A	A++ / A+	A++ / A+	
Sound pressure level at 1m	ID	dB(A)	49 / 47 / 45 / 43	49 / 47 / 44 / 42	52 / 50 / 48 / 44	54 / 53 / 49 / 45	
	OD	dB(A)	55	56	57	57	
Dimension (w x h x d)/Net weight	ID	mm/kg	1200x665x235 / 32	1570x665x235 / 40	1570x665x235 / 42	1570x665x235 / 42	
	OD	mm/kg	940x820x460 / 89	940x820x460 / 95	940x820x460 / 99	900x1345x340 / 112	
Operating temperature range cooling/heating	°C		-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	

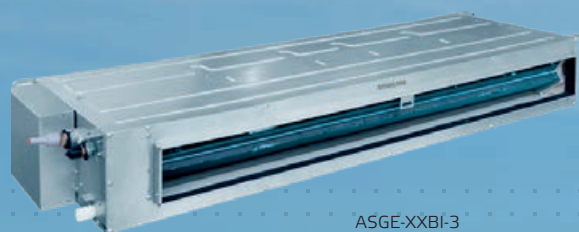
* Indoor unit power supply is 1~ / 50 / 220-240. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675. Optional accessories is mentioned in technical part of catalogue.

UNI SPLIT SERIES



ASD-12BI ASD-36BI
 ASD-18BI ASD-42BI
 ASD-24BI ASD-48BI
 ASD-30BI ASD-60BI

- Autorestart function
- Dry on/off contact
- Water Pump
- Optional WiFi module



ASD-XXBI

ASGE-XXBI-3



ASGE-XXBI



DC INVERTER

MODEL			ASGE-12BI ASD-12BI	ASGE-18BI ASD-18BI	ASGE-24BI ASD-24BI	ASGE-30BI ASD-30BI	ASGE-36BI ASD-36BI
Capacity cooling / heating	kW		3,5 / 4,0	5,0 / 5,5	7,0 / 8,0	8,5 / 8,8	10,0 / 12,0
Power supply -OD*	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		6,1 / 4,0	6,1 / 4,0	6,8 / 4,0	6,1 / 4,0	6,1 / 4,0
Energy class cooling/ heating (Average)	-		A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Sound pressure level at 1,4m	ID	dB(A)	41 / 38 / 36 / 34	43 / 42 / 39 / 36	40 / 39 / 37 / 36	42 / 40 / 37 / 35	46 / 44 / 42 / 40
	OD	dB(A)	50	50	52	53	55
Dimension (w x h x d)/Net weight	ID	mm/kg	700x200x450 / 20	1000x450x200 / 26	1300x450x220 / 31	1300x450x220 / 31	1000x700x300 / 41
	OD	mm/kg	818x596x302 / 37	818x596x302 / 39	892x340x698 / 53	920x370x790 / 60	940x460x820 / 83
Operating temperature range cooling/heating	°C		-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24

MODEL			ASGE-36BI-3 ASD-36BI	ASGE-42BI-3 ASD-42BI	ASGE-48BI-3 ASD-48BI	ASGE-60BI-3 ASD-60BI	
Capacity cooling / heating	kW		10,0 / 12,0	12,1 / 13,5	13,4 / 15,5	16,0 / 17,0	
Power supply -OD*	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	3~ / 50 / 380-415	
SEER / SCOP	-		6,1 / 4,0	5,8 / 3,8	5,4 / 3,7	6,1 / 4,0	
Energy class cooling/ heating (Average)	-		A++ / A+	A+ / A	A+ / A	A++ / A+	
Sound pressure level at 1,4m	ID	dB(A)	46 / 44 / 42 / 40	42 / 40 / 39 / 37	43 / 41 / 40 / 38	44 / 41 / 39 / 38	
	OD	dB(A)	55	56	57	57	
Dimension (w x h x d)/Net weight	ID	mm/kg	1000x700x300 / 41	1400x700x300 / 50	1400x700x300 / 50	1400x700x300 / 57	
	OD	mm/kg	940x460x820 / 89	940x460x820 / 95	940x460x820 / 99	900x340x1345 / 112	
Operating temperature range cooling/heating	°C		-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	-20-48 / -20-24	

* Indoor unit power supply is 1~ / 50 / 220-240. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675. Optional accessories is mentioned in technical part of catalogue.

COMMUNICATION MODULE

SCMI-01.4

- **Low evaporating temperature up to -15°C**
- 3 basic operation modes *
- Control of separate condensing units of UNI SPLIT series
- Direct operation mode (cooling) or reverse operation mode (heating)
- Control of FMD modules
- Password protected setting
- Language options
- Pre-setting of all parameters via USB Communicator software
- DIN rail compatible – 4M wide, installation in power distribution unit



COMMUNICATION MODULE		
Power supply	-	230V/50Hz ±10%
Rated power input	VA	15
Dimension (wxhxd)	mm	90x71x58
Package dimension (wxhxd)	mm	120x100x80
Net/gross weight	kg	0,21 / 0,35
Storage temperature	°C	-25 ~ +70
Operating range	°C	0 ~ +60
Outputs		3x relay with on/off contact 230V/2A
Inputs		2x binary input for communication
		2x input for temperature sensors; input for FMD modules (VE+, VE-)
		1x voltage input 0-10V, resistance 100kΩ
		1x current input 4-20mA for pressure sensor 0-18bar
Standard accessories		2x temperature sensor NTC015WF00 (10kΩ; B=3435)
Optional accessories		Pressure sensor Alco Controls PTS-18M

* 3 BASIC OPERATION MODES

Autonomous temperature control mode: The system changes its performance in order to achieve set temperature measured with T2 sensor. You can set temperature from -10 °C to +60 °C

Slave unit mode – operated: You set the compressor performance directly via 0-10V input. Evaporating temperature depends on compressor performance and other conditions

Autonomous pressure (evaporating temperature) control mode for cooling only: The compressor performance changes based on evaporating pressure. You can set the pressure which corresponds with temperatures from -10 °C to +60 °C

MULTI VARIABLE SERIES

ECOLOGICAL REFRIGERANT  R32



- MV-E14BI
- MV-E18BI
- MV-E21BI
- MV-E24BI
- MV-E28BI
- MV-E36BI
- MV-E42BI

- Autorestart function
- Crankcase heater, chassis heater
- Setting of master/slave indoor unit
- Automatic defrost mode
- Control sequence after first power on



PLASMA+TEC DC INVERTER

STANDARD ACCESSORIES

- Pipe adapters
- Drain plugs
- Drain water adapter

TECHNICAL PARAMETERS



MODEL			MV-E14BI	MV-E18BI	MV-E21BI	MV-E24BI
Number of connectable indoor units			1-2	1-2	2-3	2-3
Capacity cooling / heating	kW		4,1 / 4,4	5,2 / 5,4	6,1 / 6,5	7,1 / 8,5
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		6,0 / 4,0	6,1 / 4,0	6,1 / 4,0	6,1 / 4,0
Energy class cooling/ heating (Average)			A++ / A+	A++ / A+	A++ / A+	A++ / A+
Sound pressure level at 1m	ID	dB(A)	55	55	58	58
Dimension (w x h x d)/Net weight	ID	mm/kg	899 x 596 x 378 / 43,0	899 x 596 x 378 / 43,0	955 x 700 x 396 / 55,0	980 x 790 x 427 / 68,0
Operating temperature range cooling/heating			°C		-15-43 / -22-24	-15-43 / -22-24

MODEL			MV-E28BI	MV-E36BI	MV-E42BI
Number of connectable indoor units			2-4	2-4	2-5
Capacity cooling / heating	kW		8,0 / 9,5	10,5 / 12,0	12,0 / 13,0
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		6,1 / 4,0	6,1 / 4,0	6,1 / 4,0
Energy class cooling/ heating (Average)			A++ / A+	A++ / A+	A++ / A+
Sound pressure level at 1m	ID	dB(A)	58	60	60
Dimension (w x h x d)/Net weight	ID	mm/kg	980 x 790 x 427 / 69,0	1087 x 1103 x 440 / 90,0	1087 x 1103 x 440 / 90,0
Operating temperature range cooling/heating			°C		-15-43 / -22-24

ID/OD= Indoor unit/Outdoor unit.

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

MULTI VARIABLE SERIES

ECOLOGICAL REFRIGERANT R32



WALL MOUNTED UNITS

- Energy class A++ / A+
- Dual side water outlet
- Automatic restart

STANDARD ACCESSORIES

- Filters - catechin SAF-OPWC4 and active carbon filter SAF-OPWA4
- Cold plasma generator
- WiFi module (**except MV-H07BIF**)
- Dry on/off contact



MODEL		MV-H07BIF	MV-H09BIF	MV-H12BIF	MV-H18BIF	MV-H24BIF
Capacity cooling / heating	kW	2,1 / 2,6	2,7 / 2,8	3,5 / 3,6	5,2 / 5,3	7,0 / 7,4
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Sound pressure level at 1m	dB(A)	39 / 36 / 32 / 28	41 / 37 / 35 / 32 / 29 / 26 / 24	42 / 38 / 35 / 32 / 30 / 28 / 26	45 / 43 / 41 / 38 / 35 / 34 / 31	48 / 45 / 42 / 39 / 37 / 36 / 33
Dimension (w x h x d)/Net weight	mm/kg	790 x 275 x 200 / 9,0	790 x 275 x 200 / 9,0	845 x 289 x 209 / 10,5	970 x 300 x 224 / 13,5	1078 x 325 x 246 / 16,2

MODEL		MV-H09BIS/B -W	MV-H13BIS/B -W	MV-H18BIS/B -W	MV-H24BIS/B -W	
Capacity cooling / heating	kW	2,7 / 2,9	3,5 / 3,8	5,3 / 5,6	7,0 / 7,2	
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Sound pressure level at 1m	dB(A)	41 / 39 / 37 / 35 / 33 / 31 / 24	43 / 39 / 37 / 35 / 34 / 32 / 25	49 / 45 / 43 / 41 / 39 / 37 / 34	49 / 47 / 44 / 42 / 40 / 38 / 36	
Dimension (w x h x d)/Net weight	mm/kg	865 x 290 x 210 / 10,5	865 x 290 x 210 / 11,0	996 x 301 x 225 / 13,5	1101 x 327 x 249 / 16,5	

CONSOLE UNITS

- WiFi module
- Filters - catechin SAF-OPWC4 and active carbon filter SAF-OPWA4
- Dual air outlet for heating
- Cold plasma generator



MODEL		MV-P09BI	MV-P12BI	MV-P18BI		
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		
Sound pressure level at 1m	dB(A)	40/36/34/32/30/26/23	42/40/38/36/34/31/25	47/45/42/40/37/35/31		
Dimension (w x h x d)/Net weight	mm/kg	700 x 600 x 215 / 15,5	700 x 600 x 215 / 15,5	700 x 600 x 215 / 15,5		



CASSETTE UNITS

- 4-way air outlet
- Water pump



MODEL		MV-C12BI	MV-C18BI	MV-C24BI		
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		
Sound pressure level at 1,4m	dB(A)	44 / 41 / 38 / 34	47 / 45 / 41 / 35	47 / 45 / 41 / 36		
Dimension (w x h x d)/Net weight	mm/kg	596 x 240 x 596 / 20,0	596 x 240 x 596 / 20,0	840 x 240 x 840 / 26,0		

DUCT UNITS

- Remote and wired controller in standard
- Water pump



MODEL		MV-D09BI	MV-D12BI	MV-D18BI	MV-D24BI	
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	
Sound pressure level at 1,4m	dB(A)	47/41/37/34/31	49/42/39/35/32	51/43/41/33/-	52/44/42/34/-	
Dimension (w x h x d)/Net weight	mm/kg	700 x 200 x 615 / 21,0	700 x 200 x 615 / 22,0	900 x 200 x 615 / 26,0	1100 x 200 x 615 / 30,0	

FLOOR CEILING UNITS

- Horizontal/vertical position
- Wired controller (display board)



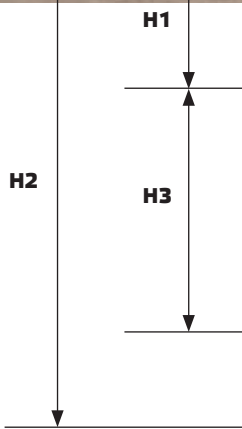
MODEL		MV-F09BI	MV-F12BI	MV-F18BI	MV-F24BI	
Capacity cooling / heating	kW	2,5 / 2,7	3,5 / 4,0	4,5 / 5,0	7,1 / 8,0	
Power supply	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Sound pressure level at 1m	dB(A)	38/35/30/26	38/35/30/26	38/35/30/26	38/35/31/27	
Dimension (w x h x d)/Net weight	mm/kg	870 x 665 x 235 / 25	870 x 665 x 235 / 25	870 x 665 x 235 / 25,5	1200 x 665 x 235 / 33	

HIGH POWER MULTI SYSTEM SERIES

R410A
REFRIGERANT



L1



L2

L3



MS-E48AIN
MS-E56AIN

- Connection of 2 up to 9 units of multi system / multi combi
- Refrigerant pipes divided by branch joints and distributors
- Automatic scanning of connected indoor units
- Automatic addressing of indoor units
- 4-way refrigerant pipe outlet
- Integrated WiFi module for system diagnosis

(E.G. MS-E48AIN SYSTEM CONNECTION)

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

DISTRIBUTION BOXES

DB2-19SB



DB3-19SB



DB5-16AF



DC INVERTER

TECHNICAL PARAMETERS



MODEL			MS-E48AIN	MS-E56AIN	
Capacity cooling / heating	kW		14,0 / 16,0	16,0 / 18,0	
Power supply	Hz / V		3~ / 50 / 380-415	3~ / 50 / 380-415	
SEER / SCOP	-		2,70 / 3,20	2,65 / 3,50	
Sound pressure level at 1m	OD	dB(A)	58	58	
Dimension (w x h x d)/Net weight	OD	mm/kg	900 x 1345 x 340 /121,0	900 x 1345 x 340 /121,0	
Operating temperature range cooling/heating	°C		10~48/-15~27	10~48/-15~27	
DISTRIBUTION BOXES			DB2-195B	DB3-195B	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
Sound pressure level at 1m	dB(A)		28	28	30
Unit dimensions	mm		600x313x182	600x313x182	617x410x193
Net/ gross weight	kg		5,5 / 7,5	6,0 / 8,0	9,0 / 11,0

OD= Outdoor unit

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

OPTIONAL ACCESSORIES

BRANCH JOINTS
MS-01BI



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

HIGH POWER MULTI SYSTEM SERIES

R410A
REFRIGERANT



MS-H07AIZ MS-P09AI
MS-H09AIZ MS-P12AI
MS-H12AIZ MS-P18AI
MS-H18AIZ
MS-H24AIZ

- Automatic restart
- Operating range 16-30°C
- Inbuilt WiFi module (**series MS-HxxAIZ except MS-H07AIZ**)



MS-HXXAIZ



MS-PXXAI

WALL MOUNTED UNITS		MS-H07AIZ	MS-H09AIZ	MS-H12AIZ	MS-H18AIZ	MS-H24AIZ
Capacity cooling / heating	kW	2,1 / 2,6	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
Sound pressure level at 1m	dB(A)	38/36/32/26	39/36/32/26	42/39/33/26	46/42/39/36	48/45/42/39
Dimension (w x h x d)/Net weight	mm/kg	790x275x200 / 9,0	790x275x200 / 9,0	845x289x209 / 10,0	970x300x224 / 13,5	1078x325x246 / 17,0

CONSOLE UNITS		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		
Sound pressure level at 1m	dB(A)	40/38/33/26	42/40/37/32	48/46/41/35		
Dimension (w x h x d)/Net weight	mm/kg	700x600x215 / 15,0	700x600x215 / 15,0	700x600x215 / 15,0		



MC-C12AI
MC-C18AI



MC-DXXAI



MC-C24AI



MC-FXXAI

MC-C12AI MC-D09AI MC-F09AI
 MC-C18AI MC-D12AI MC-F12AI
 MC-C24AI MC-D18AI MC-F18AI
 MC-D24AI MC-F24AI

- Automatic restart
- Operating range 16-30°C
- Remote and wired controller as standard
- Water pump as standard (cassette and duct units)

CASSETTE UNITS		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		
Sound pressure level at 1,4m	dB(A)	46 / 44 / 42	46 / 44 / 42	39 / 37 / 35		
Dimension (w x h x d)/Net weight	mm/kg	570x570x230 / 18,0	570x570x230 / 18,0	840x840x240 / 30,0		
Dimension-panel (w x h x d)	mm/kg	650x650x50 / 6,5	650x650x50 / 6,5	950x950x60 / 6,5		

DUCT UNITS		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	
Sound pressure level at 1,4m	dB(A)	37 / 31	39 / 32	41 / 33	42 / 34	
Dimension (w x h x d)/Net weight	mm/kg	700x200x615 / 22,0	700x200x615 / 23,0	900x200x615 / 27,0	1100x200x615 / 31,0	

FLOOR CEILING UNITS		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	
Sound pressure level at 1m	dB(A)	40 / 36	40 / 36	45 / 40	48 / 40	
Dimension (w x h x d)/Net weight	mm/kg	1220x700x225 / 40,0	1220x700x225 / 40,0	1220x700x225 / 45,0	1220x700x225 / 45,0	

HIGH STATIC PRESSURE SERIES

R410A
REFRIGERANT



ASDH-96AI

- Optional central controller CCM30
- Mode priority settings
- External static pressure up to 150Pa
- Dry on/off contact
- Alarm contact
- Wired controller KJR-29B
- Optional water pump, water level switch
- 4 cold-air protection modes
- Setting of compensation in heating mode



DC INVERTER

TECHNICAL PARAMETERS



MODEL	ASDH-96AI		
Capacity cooling / heating	kW		28,0 / 31,5
Power supply	Hz / V		3~ / 50 / 380-415
EER / COP	-		3,11 / 3,71
Sound pressure level at 1m	ID	dB(A)	49-52
	OD	dB(A)	59
Dimension (w x h x d)/Net weight	ID	mm/kg	1470 x 512 x 775 / 83,0
	OD	mm/kg	1120 x 1558 x 528 / 147,0
Operating temperature range cooling/heating	°C		-15 ~ 48 / -15 ~ 24

ID/OD= Indoor unit/Outdoor unit.

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

OPTIONAL ACCESSORIES

- Central controller CCM30

WINDOW SERIES

ECOLOGICAL REFRIGERANT  R32



ASW-09BI ASW-12BI

- Energy class A
- Cooling mode only
- Dirty filter alarm
- Low voltage startup
- Automatic restart function



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	
SEER	-	3,45	3,54	
Energy class cooling	-	A	A	
Sound pressure level at 1m	interior	dB(A)		50 / 48 / 46
	exterior	dB(A)		58 / 56 / 54
Dimension (w x h x d)/Net weight	mm/kg	560 x 375 x 710 / 43,0	660 x 428 x 700 / 50,0	
Operating temperature range cooling	°C	16 ~ 43	16 ~ 43	

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.
 Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (single component refrigerant HFC), GWP of refrigerant used: 675.
 Hermetically sealed system.

TOWER SERIES



R410A
REFRIGERANT



AST-24AI

- Designed with an emphasis on aesthetics
- Usable for larger areas such as offices, meeting rooms, restaurants etc.
- Turbo heating and cooling
- Equipped with horizontal and vertical electric louver
- Self-diagnosis function
- Intelligent defrost system
- WiFi control
- Controlled by built-in or remote controller



DC INVERTER

TECHNICAL PARAMETERS

MODEL			AST-24AI	
Capacity cooling / heating	kW		7,2 / 7,5	
Power supply	Hz / V		1~ / 50 / 220-240	
SEER / SCOP	-		6,1 / 4,0	
Sound pressure level at 1m	ID	dB(A)	49 / 45 / 42 / 39	
	OD	dB(A)	60	
Dimension (w x h x d)/Net weight	ID	mm/kg	507 x 1770 x 320 / 40,0	
	OD	mm/kg	955 x 700 x 396 / 53,5	
Operating temperature range cooling/heating	°C		-15 ~ 48 / -15 ~ 24	

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.
 Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

CAMPER TRAILER AIR CONDITIONER

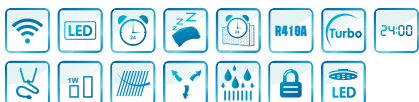


R410A
REFRIGERANT



ASV-25A ASV-35A

- Possibility of control via WiFi
- Operating temperature 2-43 ° C
- For roofs with a thickness of 30-80 mm
- 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



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
SEER / SCOP	-		2,33 / 2,22	2,75 / 2,22
Sound pressure level at 1m	ID	dB(A)	58 / 54 / 46 / 37	55 / 49 / 44 / 39
	OD	dB(A)	65 / 55	65 / 55
Dimension (w x h x d)/Net weight	ID	mm/kg	667 x 96 x 497 / 5,5	667 x 96 x 497 / 5,5
	OD	mm/kg	1018 x 259 x 650 / 41,0	1018 x 259 x 650 / 41,0
Operating temperature range cooling/heating	°C		18 ~ 43 / 2 ~ 24	18 ~ 43 / 2 ~ 24

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.
 Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.
 Hermetically sealed system.

BOAT SERIES

R410A
REFRIGERANT



- ASB-05A
- ASB-09A
- ASB-12A
- ASB-16A
- ASB-20A
- ASB-24A

- Compact space-saving design
- Power supply 50/60 Hz
- High COP compared to air-cooled units
- Corrosion proof and rust prevention coating
- High quality of heat insulating material
- Operating temperature range:
Cooling: 16~43°C (10°C~35°C of inlet water)
Heating: -10~30 °C (4°C~25°C of inlet water)
- Timer ON/OFF display
- Wired and remote controller as standard



ASB-20A



ASB-12A

FIX SPEED

TECHNICAL PARAMETERS



MODEL			ASB-05A	ASB-09A	ASB-12A
Capacity cooling / heating	kW		1,1 / 1,4	2,1 / 2,2	3,1 / 3,2
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		1,96 / 2,64	2,33 / 2,50	2,82 / 2,91
Sound pressure level at 1m	ID	dB(A)	58	58	58
Dimension (w x h x d)/Net weight	ID	mm/kg	285 x 408 x 295 / 25,5	380 x 408 x 310 / 28,0	380 x 420 x 330 / 33,0
Operating temperature range cooling / heating	°C		16-43 / -10-30	16-43 / -10-30	16-43 / -10-30

MODEL			ASB-16A	ASB-20A	ASB-24A
Capacity cooling / heating	kW		3,2 / 4,0	5,1 / 5,2	6,4 / 6,7
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
SEER / SCOP	-		2,67 / 3,08	3,40 / 3,35	4,41 / 3,80
Sound pressure level at 1m	ID	dB(A)	62	60	60
Dimension (w x h x d)/Net weight	ID	mm/kg	450 x 465 x 330 / 37,5	620 x 520 x 385 / 57,5	595 x 529 x 386 / 60,5
Operating temperature range cooling / heating	°C		16-43 / -10-30	16-43 / -10-30	16-43 / -10-30

For detailed technical parameters see technical part of catalogue. This catalogue sheet does not apply to project documentation.
Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

LOCAL

AIR CONDITIONERS

R410A
REFRIGERANT



AMC-XXAN1

AMC-11AN1 AMC-14AN1

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

STANDARD ACCESSORIES

AMC-WINK
WINDOW KIT



TECHNICAL PARAMETERS



MODEL			AMC-11AN1	AMC-14AN1	
Capacity cooling / heating	kW		3,0 / 3,0	4,0 / 4,0	
Power supply	Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	
EER / COP	-		2,6 / 3,1	2,6 / 3,1	
Energy class cooling / heating	-		A / A++	A / A++	
Sound pressure level at 1m	ID	dB(A)	65	65	
Dimension (w x h x d)/Net weight	ID	mm/kg	300 x 760 x 532 / 28,5	300 x 760 x 532 / 30,6	
Operating temperature range cooling/heating	°C		17-32 / 7-25	17-32 / 7-25	

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088. Hermetically sealed system.

OPTIONAL ACCESSORIES

AMC-WK
WALL KIT



AK-15A WALL
CONTROLLER SET



WK-400A
WINDOW KIT



MOBILE DEHUMIDIFIERS

R410A
REFRIGERANT

R134A
REFRIGERANT



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





MODEL		CFO-16E	CFO-20N	CFO-45E
Dehumidifying volume	l/den	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	-	280 / 390	330 / 480	740 / 830
Rated current	-	1,3	1,7	3,8
Sound pressure level at 1m	dB(A)	45 / 43	45 / 41	46 / 44
Water tank volume	l	3,3	3,7	3,7
Optimal room size	m ²	20	28	40
Dimension (w x h x d)/Net weight	mm/kg	353 x 496 x 225 / 12,0	343 x 523 x 270 / 14,5	515 x 510 x 238 / 18,5
Operating temperature range	°C	5 ~ 35	5 ~ 35	5 ~ 35

CFO-16E, CFO-20N: R134A (100% HFC-134A), GWP 1430

CFO-45E: R410A (50% HFC-32, 50% HFC-125), GWP 2088

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.

REMOVE UNWANTED MOISTURE FROM AIR

Taking advantage of refrigeration principle, the DEHUMIDIFIER powerfully removes partial moisture from air to drop the humidity of the room and keeps indoor air dry and comfortable. Also, you can take advantage of its dehumidifying ability to help to dry the laundry quicker.

AIR PURIFIER

SP-240A

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



STANDARD ACCESSORIES

- Air filtration system - plastic antiseptic filter with silver ion
- Cotton LTC Catalyst filter
- HIMOP/HEPA filter
- Active carbon filter
- Electrostatic filter

TECHNICAL PARAMETERS



MODEL		SP-240A		
Optimal room size	m ²	15 - 22		
Power supply	Hz / V	1~ / 50 / 220-240		
Cleaning volume	m ³ /h	160		
Humidification	ml/h	380		
Sound pressure level at 1m	dB(A)	48 / 42 / 35 / 27 (Quiet operation)		
Dimension (w x h x d)/Net weight	mm/kg	385 x 608 x 278 / 11,0		
Operating temperature range	°C	15 ~ 35		

OPTIONAL ACCESSORIES

SPDF-240

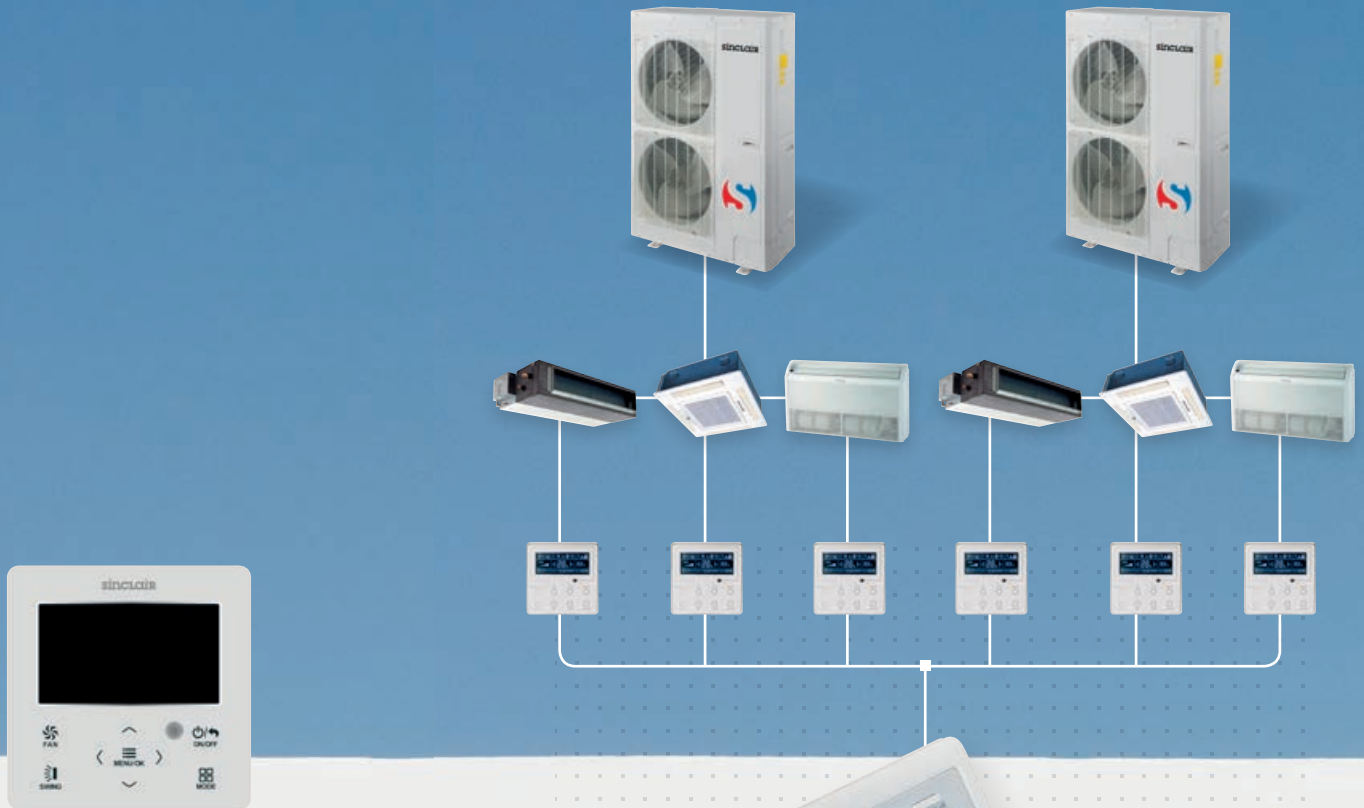


SPWF-240



SPDF-240
Replacement dust filters
SPWF-240
Replacement humidifying
filters

OPTIONAL ACCESSORIES



SWC-02 WALL CONTROLLER

This optional wired controller with touch screen is connected directly to the indoor unit. The package contains standard 8 m cable, connection is made using a 4-pin connector.

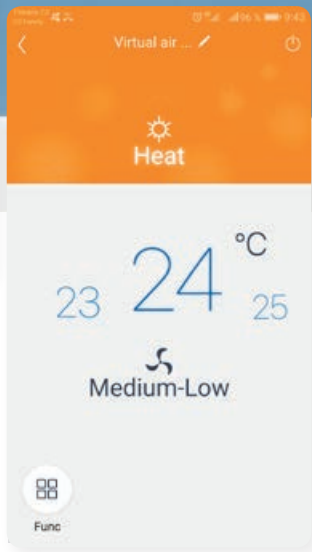
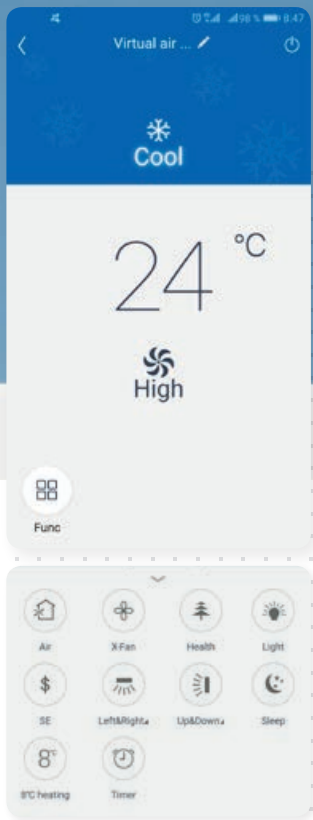
- Selection of basic modes
- Address setting for central control of SCC-16
- Displaying unit status
- Displaying error codes
- Real time on display
- Sleep, health, quiet operation functions
- Holiday mode (tempering)
- Save / Turbo (x-fan)
- Blocking of selected functions
- Child safety lock of buttons
- Auto restart
- Timers (daily, weekly, two-week)
- The fault condition is indicated on the display of controller and entering the menu, the error code can be detected.



SCC-16 CENTRAL CONTROLLER AND WEEKLY TIMER

The central control allows you to control up to 16 units.

- Weekly timer (minimum runtime 0.5h)
- Connection via SWC-02 wired controller
- Addresses loading of indoor units
- It is necessary to order a sufficient number of SCC-16K cables to SCC-16 central controller.



WIFI EWPE APPLICATION

The indoor unit has inbuilt WiFi module, with which the air conditioner can be controlled by iOS or android phone / tablet.



Use Google Play or App store to download EWPE app.



G2S GSM MODULE

G2S module is used to control Sinclair air conditioners via your mobile phone. It uses IR for communication, so it is not necessary to connect it to the air conditioner.

It acts like a second remote control. The module is equipped with two transmitting IR diodes, signalling diode, SIM card slot and also with power supply and USB port connectors.



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The noise levels mentioned in this catalogue are values measured under ideal conditions, in an anechoic chamber. These values can be influenced by local conditions (acoustical bouncing area, the equipment of the room, etc.).

The pictures of units and accessories are illustrative only.

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