



AIR CONDITIONING UNITS | 2018

 **PROtech**

HOT WATER | HEATING | RENEWABLE | AIR CONDITIONING



COMFORT ALWAYS ON.

For more than 80 years we have been entering the homes of families who choose Ariston with **dedication, passion and attention to details**.

This is our source of inspiration to constantly improve ourselves and guide us towards a future made of **sustainable and intelligent comfort**.

Because we believe that our **everlasting quality, advanced performance and Italian style** can truly improve the quality of life, every day.

/ TODAY

Ariston is a worldwide leading brand in thermic comfort.

/ 1960s-1980s

Ariston brand is launched and the production of electric water heaters begins. During 80s, Ariston has consolidated its market leadership in water heating and the production of boilers begins.

/ 1930s

Aristide Merloni founds “Industrie Merloni” company in the Marche Region of Italy, and starts the production of weighing scales.

THE PROTech PROFESSIONAL RANGE 2018



The Ariston range of air conditioning systems dedicated to the professional channel and users, with improved performance and functions and numerous additional advantages in terms of comfort and energy savings.

AIR CONDITIONING UNITS

/ KIOS (R32)



MONO SPLIT INVERTER
25 – 35



MULTI SPLIT INVERTER
DUAL-TRIAL

/ NEVIS (R410)



MONO SPLIT INVERTER
25 – 35



MULTI SPLIT INVERTER
DUAL-TRIAL

KIOS

- 22 / MONO SPLIT
- 24 / MULTI SPLIT DUAL
- 25 / MULTI SPLIT TRIAL

NEVIS

- 32 / MONO SPLIT
- 34 / MULTI SPLIT DUAL
- 35 / MULTI SPLIT TRIAL

ALYS R32

- 41 / MONO SPLIT
- 44 / MULTI SPLIT DUAL
- 45 / MULTI SPLIT TRIAL
- 46 / MULTI SPLIT QUAD
- 47 / MULTI SPLIT PENTA

/ ALYS R32



NEW

MONO SPLIT INVERTER
25 – 35 – 50



MULTI SPLIT INVERTER
DUAL-TRIAL-QUAD-PENTA

/ PRIOS R32



NEW

MONO SPLIT INVERTER
25 – 35 – 50



MULTI SPLIT INVERTER
DUAL-TRIAL

/ ALYS PLUS (R410)



MONO SPLIT INVERTER
25 – 35 – 50



MULTI SPLIT INVERTER
DUAL-TRIAL

DEHUMIDIFIERS

/ DEOS 11



/ DEOS 16s / 18s / 20s



/ DEOS 21s



/ DEOS 30 / 50



PRIOS R32

53 / MONO SPLIT

ALYS PLUS

59 / MONO SPLIT

62 / MULTI SPLIT DUAL

63 / MULTI SPLIT TRIAL

DEHUMIDIFIERS

72 / DEOS 11

73 / DEOS 16s - 18s - 20s

74 / DEOS 21s

75 / DEOS 30 - 50

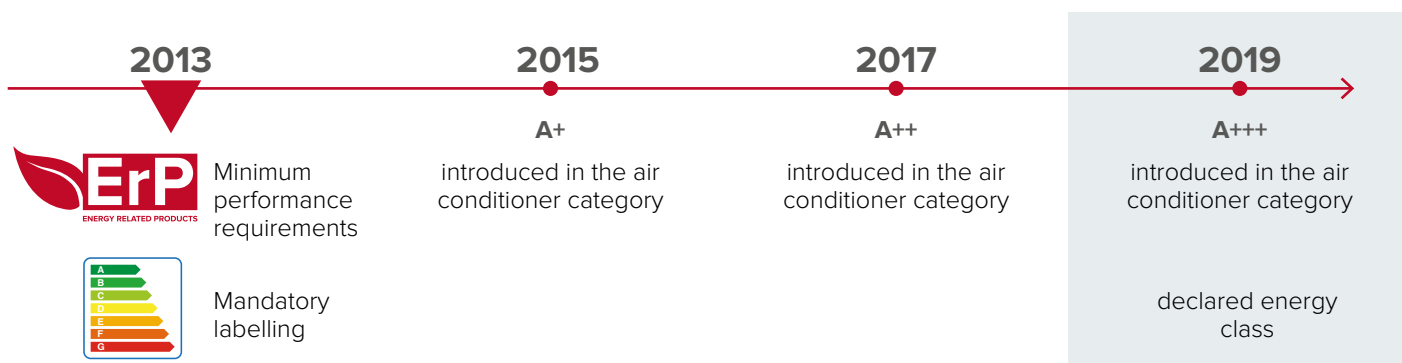
ECODESIGN (ErP)



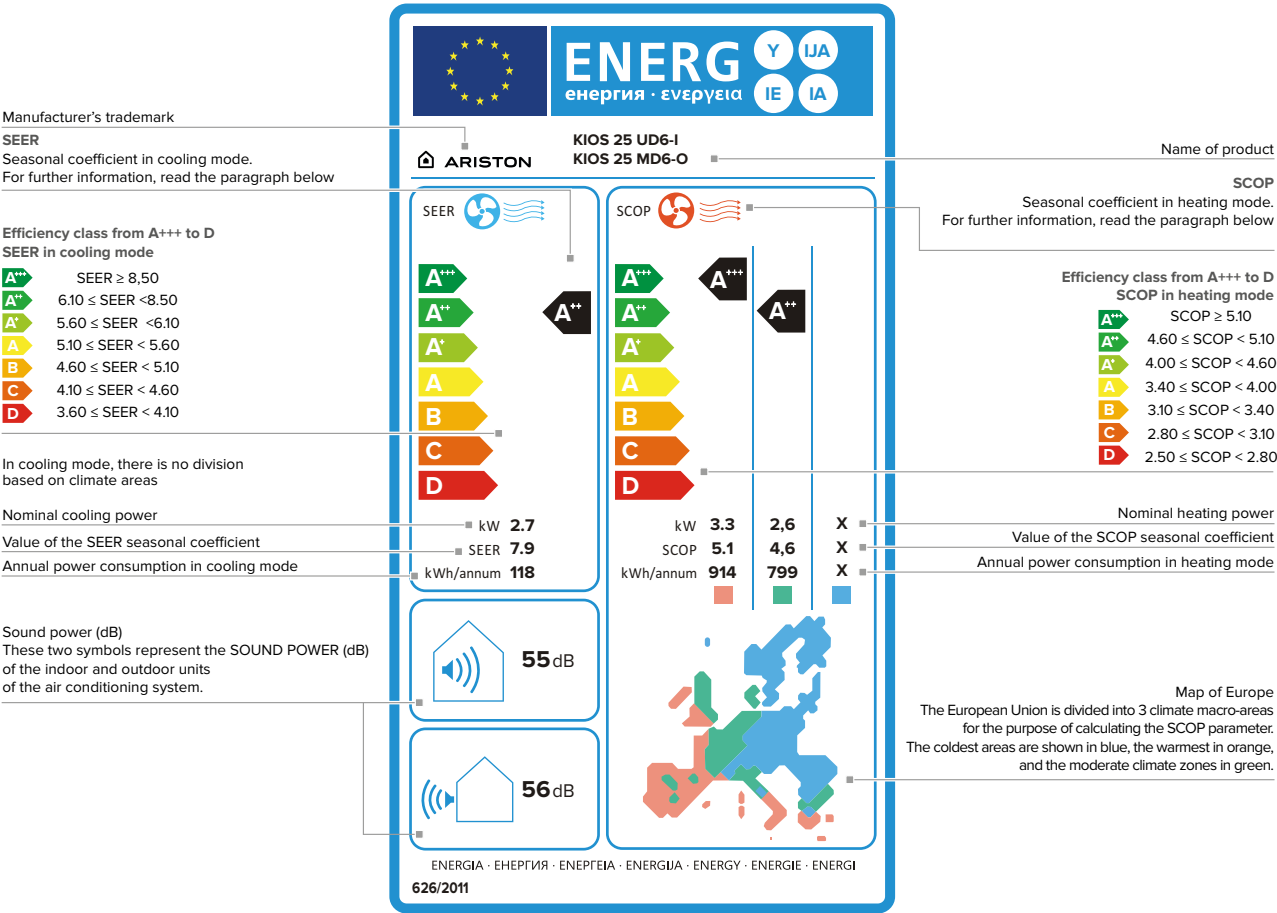
European Regulation (EU) no. 206/2012, implementing Directive 2009/125/EC (ErP), states that from 1 January 2013 all air conditioning systems (up to 12 kW) must fulfil the minimum performance requirements and have an energy label affixed to them, explaining the product's performances.

Products that do not conform to these requirements cannot be introduced and thus sold in the European Union.

From 1 January 2017, the rating classes have expanded to include A++, but **Ariston** – with its forward-looking approach – has decided to accelerate by offering to the market a highly efficient range comprising models with a rating of up to **A+++**.



PRODUCT ENERGY LABEL

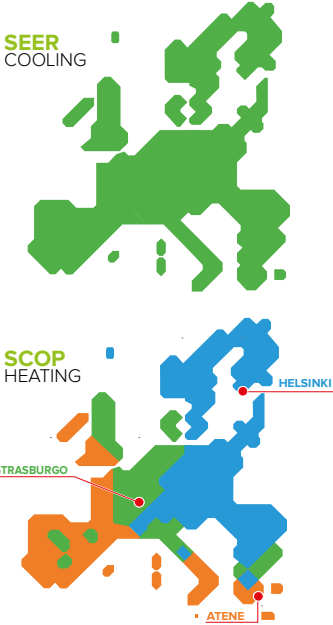


THE SEER AND SCOP INDICES

Under the terms of the directive, each class is assigned to the product on the basis of the efficiency indices: SEER and SCOP. These efficiency indicators consider the seasonal performance fluctuations by assessing the output at various outdoor temperatures.

In cooling mode, the measurements are made at outdoor temperatures of 20°C, 25°C, 30°C and 35°C. For this mode, the climate data for Strasbourg has been taken as representative of all Europe.

For heating, on the other hand, it is not possible to apply a single global temperature profile to Europe as a whole. Instead, three climate zones have been defined, represented on the label with different colours.



SEER			
Partial load	Temperature conditions		
	Outdoor	Indoor	
	DB	DB	WB
100%	35°C	27°C	19°C
74%	30°C	27°C	19°C
47%	25°C	27°C	19°C
21%	20°C	27°C	19°C

SCOP - Warm (Athens)			
Partial load	Temperature conditions		
	Outdoor		Indoor
	DB	WB	DB
-	-	-	20°C
100%	2°C	1°C	20°C
64%	7°C	6°C	20°C
29%	12°C	11°C	20°C

SCOP - Moderate (Strasbourg)			
Partial load	Temperature conditions		
	Outdoor		Indoor
	DB	WB	DB
88%	-7°C	-8°C	20°C
54%	2°C	1°C	20°C
35%	7°C	6°C	20°C
15%	12°C	11°C	20°C

SCOP - Cold (Helsinki)			
Partial load	Temperature conditions		
	Outdoor		Indoor
	DB	WB	DB
61%	-7°C	-8°C	20°C
37%	2°C	1°C	20°C
24%	7°C	6°C	20°C
11%	12°C	11°C	20°C

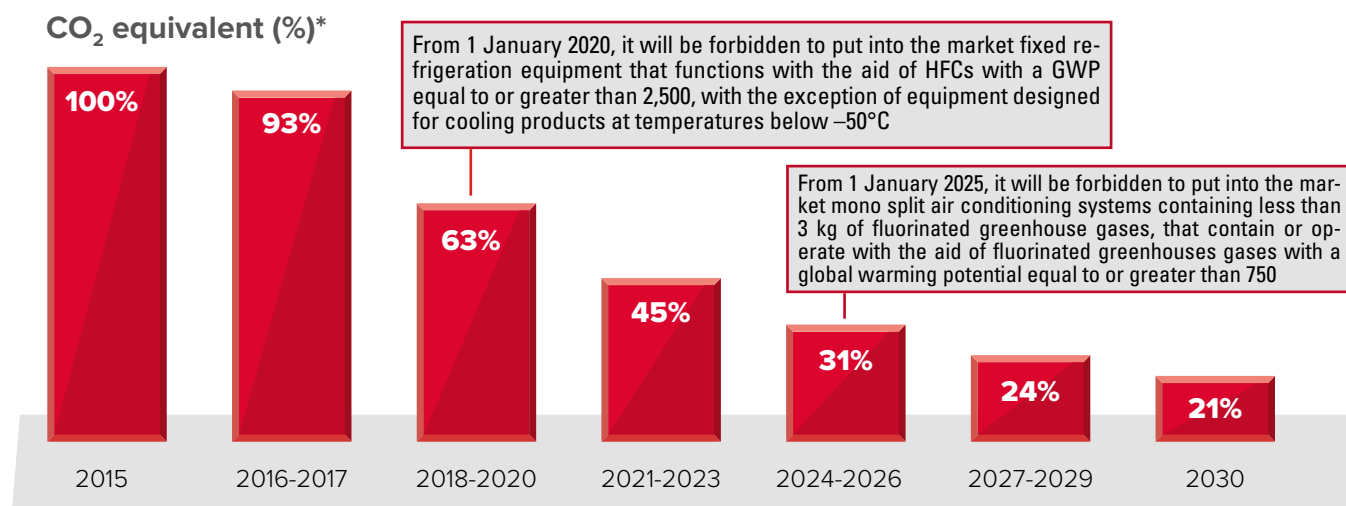
LESS AND LESS CO₂, MORE AND MORE FUTURE



On 16 April 2014, Regulation (EU) no. 517/2014 of fluorinated greenhouse gases was published on the Official Gazette of the European Union, with the aim of protecting the environment by reducing the emissions of these types of gases which, if released into the atmosphere, aggravate global warming.

Among the various points, the directive imposes quantitative limits for the putting on the market of hydrocarbons (HFCs), a special group of gases used mainly as refrigerants in air conditioning systems.

The gradual reduction in the amount of HFCs, expressed as CO₂ equivalents, is implemented through various steps, the most significant for the air conditioning sector being 1 January 2020 and 1 January 2025:



* Graph data taken from Regulation (EU) no. 517/2014

ARISTON AIR CONDITIONERS WITH R32 REFRIGERANT GAS



/ KIOS (R32)



/ ALYS R32




/ PRIOS R32

After **KIOS**, with the new **ALYS R32** and **PRIOS R32** appliances, Ariston completes its range of air conditioners with R32 refrigerant gas, anticipating Regulation no. 517/2014 which from **2025** bans the introduction on the market of the R410A refrigerant.



THE ADVANTAGES OF THE R32 REFRIGERANT COMPARED TO R410A:

- / LOWER IMPACT ON GLOBAL WARMING
- / LOWER REFRIGERANT CHARGE REQUIRED
- / FULL COMPATIBILITY WITH INSTALLATION AND MAINTENANCE OPERATIONS

REFRIGERANT GAS	GWP	ODP
R22 (HCFC)	1810	0.055
R410A (HFC mix)	2088	0
 R32 (HFC)	675	0

GWP (Global Warming Potential)

The global warming potential is an index that measures to what extent a substance impacts the greenhouse effect compared to carbon dioxide CO₂. the global warming generated by one unit of CO₂ (= 1 kg) in 100 years is taken as reference

ODP (Ozone Depletion Potential)

Indicates to what extent a chemical compound may deteriorate the ozone layer. the reference standard used is trichlorofluoromethane, which is assigned an ODP value equal to 1.0



THE PERFECT CLIMATE ALWAYS AT YOUR FINGERTIPS

Thanks to the new “Wi-Fi kit” accessories, one specifically designed for KIOS and NEVIS air conditioners and the other for ALYS R32 and PRIOS R32 appliances, the perfect Ariston climate breaks all barriers.

- / **FULL CONTROL OF THE CLIMATE AWAY FROM AND AT HOME**
- / **“ARISTON CLIMA”, THE APP DEDICATED TO SMARTPHONES AND TABLETS**
- / **WI-FI KIT FOR KIOS, NEVIS, ALYS R32 AND PRIOS R32 MODELS**



available on:



The new kit consists of a single USB flash drive which simply needs to be connected to the display board.

After the installation, all that remains is to configure the **ARISTON CLIMA** app to always have the perfect climate at your fingertips.



For further information, refer to the air conditioning accessories page

After installing the “Wi-Fi kit” accessory, you can use the Ariston app to fully control your climate and obtain the best possible comfort every time. Easily and wherever you are, with a simple “touch”...



DOWNLOADING THE APP

Downloading the **app** and activating it is the first step to making your home's climate truly intelligent.

It is a straightforward and quick operation:

- / download the “ARISTON CLIMA” app, available for iOS and Android (you can also scan the QR code appearing on the cover of the Wi-Fi kit manual)
- / perform the guided registration, by following the instructions of the booklet
- / configure your air conditioners (you can manage **from one to five** different devices)

HOW IT WORKS

The app's interface is very straightforward and intuitive. It can be used to control the climate intelligently, both away from and at home, from your smartphone or tablet.

AWAY FROM HOME



When you are away from home, you can have full control of your appliance: manage the main functions from your smartphone/tablet, exactly as you would from a traditional remote control* of the air conditioner.



AT HOME



Even when you are at home, it is possible to check the climate control unit with the “ARISTON CLIMA” app to have the maximum comfort always at hand.



* Standard supplied



FIRST CLASS SERVICE

Ariston SERVICE model is designed to offer **efficiency and professionalism** to all its customers.

A capillary Network of Authorized Service Centers all over the world, constantly trained and updated to guarantee the highest level of competence and Know how on the complete products range, makes Ariston able to provide to all Customers a quick, competent and highly **qualified Service** to meet and satisfy the specific needs of all its customers.



GENUINE ARISTON SPARE PARTS

Genuine ARISTON Spare Parts are built and tested to maintain the best quality and reliability of your Ariston product. Only using genuine components you will keep your system in the best standard configuration, fulfilling legal and warranty requirements.

To keep your Ariston product working efficiently and safely we strongly recommend to get your appliance serviced every year, requiring always new **Genuine Ariston Parts** and recommended Ariston products for system cleaning. Only genuine parts give you the high safety standard always guarantee by Ariston products design.



PEACE OF MIND VALUABLE SERVICE

You can rest assured that you extend the life and the safety of your product and that in case of any event it will be dealt quickly and with professionalism.

The Service Packages including extended warranty up to 8 years can be purchased from all authorized **Ariston Service Centres**.

Ariston Service Packages are offered to cover all customers needs.

Full Service Pack* for new products to cover any maintenance job and warranty cases starting from the expiration of standard warranty.

Second life Pack* for already out of warranty products. You will have your product renew by a FULL CHECK UP to let second life start.

** For boiler up to 35Kw only.*







ARISTON



ALYS R32
MONO SPLIT AND MULTI SPLIT INVERTER



ALYS R32



2D INVERTER^{DC}
PRO^{tech}

- / R32 refrigerant gas
- / Energy class up to A++*
- / 2D INVERTER technology*
- / Compatible with ARISTON CLIMA R32 Wi-Fi kit**
- / Memory function
- / BOOSTER function
- / Refrigerant leakage sensor
- / SELF-CLEANING function
- / Auto-matching function for multi split, for correct hydraulic connection, automatically and in any situation

ENERGY CLASS



* Models 50 up to Class A+++ and with 3D technology
** For further information, consult the complete list of accessories on page 79



/ R32 REFRIGERANT R32

The R32 refrigerant gas, with a GWP equal to 675 and reduced CO₂ emissions, guarantees a low environmental impact. Moreover, thanks to its characteristics, the amount of gas to be charged in the appliance is lower compared to other refrigerants.



/ SELF-CLEANING

The self-cleaning function reverses the direction of rotation of the fan in the outdoor unit. This air flow reversal cleans any impurities from the outdoor heat exchanger, thus keeping the entire system in good working order.



/ MEMORY

This function enables you to set and save both the temperature and the fan speed (as well as the sleep function, if enabled) to optimise comfort when the unit is next switched on.




/ FOLLOW ME

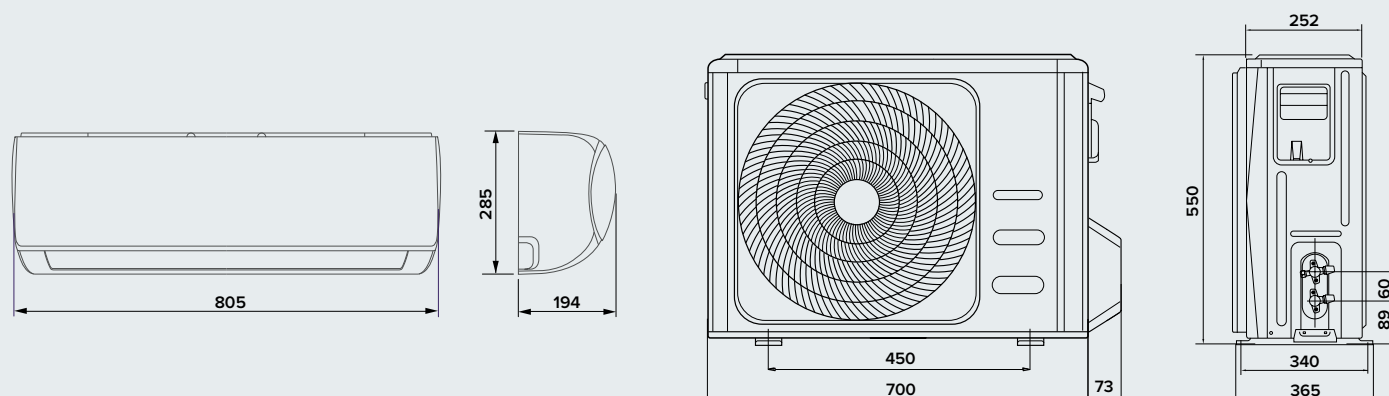
The Follow Me function allows you control the temperature in real time. You can set the temperature for the room in which the remote control is kept by sending a signal with the remote itself to the air conditioner.



MODEL		ALYS R32 25 MUDO
SEASONAL PERFORMANCE		
SEER		6.6
SCOP (hot season)		4.9
SCOP (moderate season)		4
theoretical load ⁽¹⁾ cooling mode	kW	2.6
theoretical load ⁽¹⁾ in heating mode (hot season)	kW	2.654
theoretical load ⁽¹⁾ in heating mode (moderate season)	kW	2.15
annual cooling energy consumption	kWh/year	151
annual heating energy consumption (hot season)	kWh/year	756
annual heating energy consumption (moderate season)	kWh/year	762
cooling / heating function		Yes
reference heating season		moderate/hot
indoor / outdoor unit sound power level	dB(A)	52 / 61
REFRIGERANT INFORMATION		
Type		R32
GWP		675
standard charge	kg	0.5
	t CO ₂ eq.	0.3375
POINT EFFICIENCY AND CONSUMPTION ⁽²⁾		
nominal cooling power (min - max)	W	2854 (909 - 3400)
	BTU/h	9744 (3103 - 11608)
nominal heating power (min - max)	W	2150 (821 - 3370)
	BTU/h	7340 (2803 - 11505)
nominal cooling power draw (min - max)	W	784 (100 - 1240)
nominal heating power draw (min - max)	W	570 (120 - 1200)
nominal EER at 35°C		3.64
nominal COP at 7°C / COP at -7°C		3.77 / 2.99
TECHNICAL FEATURES		
indoor unit acoustic pressure level (silence/min/med/max)	dB(A)	23/27/31/36
outdoor unit maximum acoustic pressure level	dB(A)	55
indoor unit air flow rate	m ³ /h	587
outdoor unit air flow rate	m ³ /h	2000
dehumidification power	l/h	1
INSTALLATION CHARACTERISTICS		
indoor unit condensate drainage pipe position		RH/LH
indoor / outdoor unit IP rating		IPX0 / IP24
power supply and number of phases	Hz - V - Ph	50-230-1
recommended fuse rating	A	20
type of compressor		ROT
liquid pipe diameter	inches	1/4
gas pipe diameter	inches	3/8
maximum connection length with standard charge	m	5
maximum connection length	m	25
maximum height difference between indoor and outdoor units	m	10
supplementary refrigerant recharge	g/m	12
outdoor temperature interval in cooling mode	°C	-15/50
outdoor temperature interval in heating mode	°C	-15/30
WEIGHTS AND DIMENSIONS		
indoor unit dimensions	mm	805x194x285
indoor unit packaging dimensions	mm	870x270x360
weight of indoor unit (net/gross)	kg	7.5/9.7
outdoor unit dimensions	mm	700x275x550
outdoor unit packaging dimensions	mm	815x325x615
weight of outdoor unit (net/gross)	kg	22.7/25.2


MODEL		ALYS R32 25 MUDO
	Cooling energy class	A++
	Heating energy class (hot season)	A++
	Heating energy class (moderate season)	A+
Indoor unit code		3381251
Outdoor unit code		3381259
PRODUCT CODE (indoor unit + outdoor unit)		3381270

For the full list of accessories, consult the table on page 79. For the full list of characteristics, consult the table on pages 66–67.

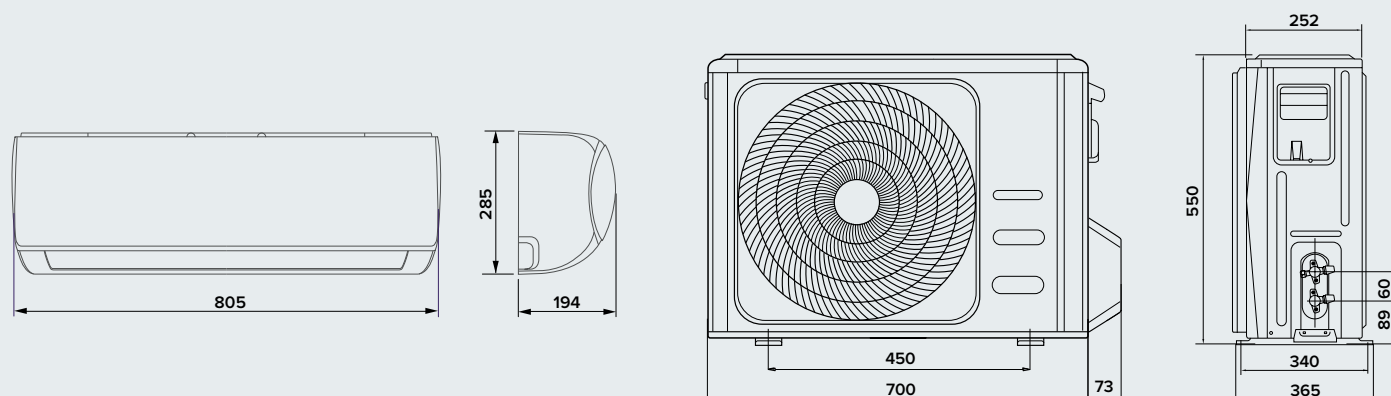


⁽¹⁾ theoretical load, per delegated regulation of the Commission (CE) n. 626/2011 dated 4 May 2011

⁽²⁾ the nominal conditions refer to 35°C / 27°C (outdoors / indoors) for cooling and 7°C / 20°C (outdoors / indoors) for heating, measured according to EN 14511


MODEL		ALYS R32 35 MUDO
SEASONAL PERFORMANCE		
SEER		6.1
SCOP (hot season)		4.64
SCOP (moderate season)		4
theoretical load ⁽¹⁾ cooling mode	kW	3.502
theoretical load ⁽¹⁾ in heating mode (hot season)	kW	2.728
theoretical load ⁽¹⁾ in heating mode (moderate season)	kW	2.4
annual cooling energy consumption	kWh/year	2014
annual heating energy consumption (hot season)	kWh/year	823
annual heating energy consumption (moderate season)	kWh/year	841
cooling / heating function		Yes
reference heating season		moderate/hot
indoor / outdoor unit sound power level	dB(A)	53 / 64
REFRIGERANT INFORMATION		
Type		R32
GWP		675
standard charge	kg	0.5
	t CO ₂ eq.	0.3375
POINT EFFICIENCY AND CONSUMPTION ⁽²⁾		
nominal cooling power (min - max)	W	3500 (1114 - 4162)
	BTU/h	11949 (3803 - 14209)
nominal heating power (min - max)	W	2400 (1085 - 4220)
	BTU/h	8194 (3704 - 14407)
nominal cooling power draw (min - max)	W	1140 (130 - 1580)
nominal heating power draw (min - max)	W	638 (135 - 1580)
nominal EER at 35°C		3.07
nominal COP at 7°C / COP at -7°C		3.76 / 2.95
TECHNICAL FEATURES		
indoor unit acoustic pressure level (silence/min/med/max)	dB(A)	22/27/33/39
outdoor unit maximum acoustic pressure level	dB(A)	58
indoor unit air flow rate	m ³ /h	527
outdoor unit air flow rate	m ³ /h	2000
dehumidification power	l/h	1.2
INSTALLATION CHARACTERISTICS		
indoor unit condensate drainage pipe position		RH/LH
indoor / outdoor unit IP rating		IPX0 / IP24
power supply and number of phases	Hz - V - Ph	50-230-1
recommended fuse rating	A	20
type of compressor		ROT
liquid pipe diameter	inches	1/4
gas pipe diameter	inches	3/8
maximum connection length with standard charge	m	5
maximum connection length	m	25
maximum height difference between indoor and outdoor units	m	10
supplementary refrigerant recharge	g/m	12
outdoor temperature interval in cooling mode	°C	-15/50
outdoor temperature interval in heating mode	°C	-15/30
WEIGHTS AND DIMENSIONS		
indoor unit dimensions	mm	805x194x285
indoor unit packaging dimensions	mm	870x270x360
weight of indoor unit (net/gross)	kg	7.5/9.7
outdoor unit dimensions	mm	700x275x550
outdoor unit packaging dimensions	mm	815x325x615
weight of outdoor unit (net/gross)	kg	22.7/25.2
MODEL		ALYS R32 35 MUDO
	Cooling energy class	A++
	Heating energy class (hot season)	A++
	Heating energy class (moderate season)	A+
Indoor unit code		3381252
Outdoor unit code		3381260
PRODUCT CODE (indoor unit + outdoor unit)		3381271

For the full list of accessories, consult the table on page 79. For the full list of characteristics, consult the table on pages 66–67.

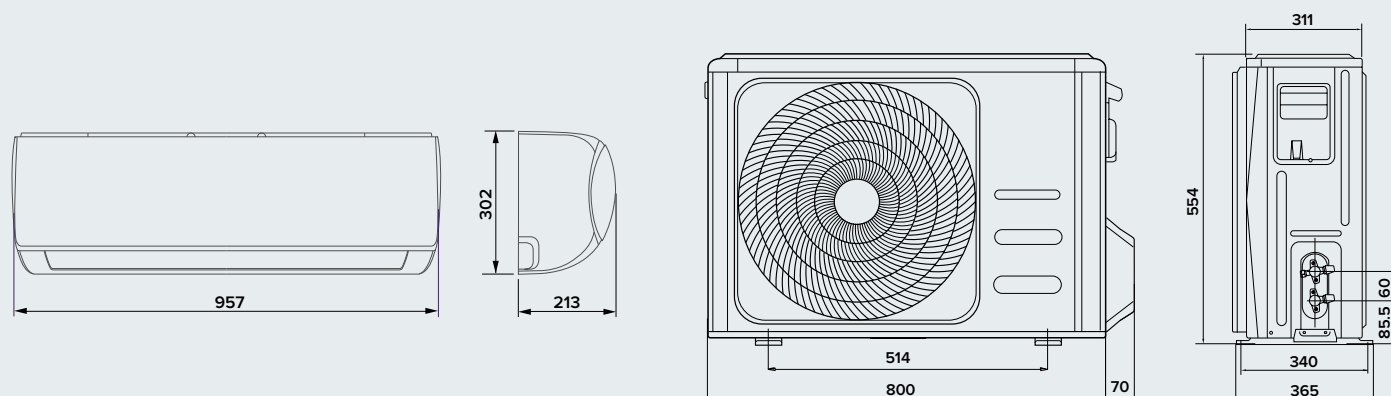


⁽¹⁾ theoretical load, per delegated regulation of the Commission (CE) n. 626/2011 dated 4 May 2011

⁽²⁾ the nominal conditions refer to 35°C / 27°C (outdoors / indoors) for cooling and 7°C / 20°C (outdoors / indoors) for heating, measured according to EN 14511

MODEL		ALYS R32 50 MUDO
SEASONAL PERFORMANCE		
SEER		71
SCOP (hot season)		5.2
SCOP (moderate season)		4.09
theoretical load ⁽¹⁾ cooling mode	kW	5.2
theoretical load ⁽¹⁾ in heating mode (hot season)	kW	4.534
theoretical load ⁽¹⁾ in heating mode (moderate season)	kW	4.1
annual cooling energy consumption	kWh/year	261
annual heating energy consumption (hot season)	kWh/year	1207
annual heating energy consumption (moderate season)	kWh/year	1444
cooling / heating function		Yes
reference heating season		moderate/hot
indoor / outdoor unit sound power level	dB(A)	54 / 61
REFRIGERANT INFORMATION		
Type		R410A
GWP		675
standard charge	kg t CO ₂ eq.	1 0.675
POINT EFFICIENCY AND CONSUMPTION ⁽²⁾		
nominal cooling power (min - max)	W BTU/h	5323 (2066 - 6125) 18173 (7053 - 20911)
nominal heating power (min - max)	W BTU/h	4100 (1488 - 6741) 13997 (5080 - 23014)
nominal cooling power draw (min - max)	W	1538 (152 - 2360)
nominal heating power draw (min - max)	W	1088 (227 - 2410)
nominal EER at 35°C		3.46
nominal COP at 7°C / COP at -7°C		3.77 / 2.83
TECHNICAL FEATURES		
indoor unit acoustic pressure level (silence/min/med/max)	dB(A)	23/30/37/42
outdoor unit maximum acoustic pressure level	dB(A)	56
indoor unit air flow rate	m ³ /h	795
outdoor unit air flow rate	m ³ /h	2000
dehumidification power	l/h	1.8
INSTALLATION CHARACTERISTICS		
indoor unit condensate drainage pipe position		RH/LH
indoor / outdoor unit IP rating		IPX0 / IP24
power supply and number of phases	Hz - V - Ph	50-230-1
recommended fuse rating	A	20
type of compressor		ROT
liquid pipe diameter	inches	1/4
gas pipe diameter	inches	1/2
maximum connection length with standard charge	m	5
maximum connection length	m	30
maximum height difference between indoor and outdoor units	m	10
supplementary refrigerant recharge	g/m	12
outdoor temperature interval in cooling mode	°C	-15/50
outdoor temperature interval in heating mode	°C	-15/30
WEIGHTS AND DIMENSIONS		
indoor unit dimensions	mm	957x213x302
indoor unit packaging dimensions	mm	1035x295x380
weight of indoor unit (net/gross)	kg	10.0/13.0
outdoor unit dimensions	mm	800x333x554
outdoor unit packaging dimensions	mm	920x390x615
weight of outdoor unit (net/gross)	kg	34/36.7
MODEL		ALYS R32 50 MUDO
	Cooling energy class	A++
	Heating energy class (hot season)	A+++
	Heating energy class (moderate season)	A+
Indoor unit code		3381253
Outdoor unit code		3381261
PRODUCT CODE (indoor unit + outdoor unit)		3381272

For the full list of accessories, consult the table on page 79. For the full list of characteristics, consult the table on pages 66–67.



⁽¹⁾ theoretical load, per delegated regulation of the Commission (CE) n. 626/2011 dated 4 May 2011

⁽²⁾ the nominal conditions refer to 35°C / 27°C (outdoors / indoors) for cooling and 7°C / 20°C (outdoors / indoors) for heating, measured according to EN 14511



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