



**AYRTON**

AIR CONDITIONING 2016

Set up your  
own weather!



The AYTRON air conditioning units can easily create the right home comfort and pleasant climate for you in all types of housing, offices, surgeries and agencies.

Our assortment represents the most popular products in terms of efficiency, performance and design. We can find a simple and convenient solution even for the complex tasks. We want to bring quality and comfort into the lives of residents of our Blue planet.

Features and benefits of the AYRTON air conditioners are being constantly improved and thereby our product range is expanding. Our goal is to offer products that fulfil the required functions and ensure high quality and safe operation for you.



**AYRTON**

## Key Features and Benefits of the Ayrton Air Conditioners

### INVERTER TECHNOLOGY

The wall split units are equipped with the INVERTER technology. By this technology, the unit is capable of controlling the performance of its compressor using the stepless electronic control depending on the current ambient temperature. The advantage is a significant improvement of environment comfort, a decrease of noise level and higher efficiency at lower power consumption. Energy consumption is about 30% lower than with the standard ON/OFF air conditioner without stepless power control of the compressor.

### AUTOMATIC MODE

In the automatic mode, the air temperature in the room is monitored using a temperature sensor. This way, the units can flexibly respond to any possible difference from the temperature that you have set as the ideal temperature for you, and cool or heat the air in the room without your interventions.

### OPERATION IN WINTER

The wall split units allow reliable operation in the cooling and heating mode even at the outdoor temperature of -15°C.

### AUTORESTART

The wall split units and dehumidifiers have an auto restart function. In case of power failure, this function ensures the restart of the unit in the latest operating mode. It is especially advantageous for dehumidifiers, where the "unattended" dehumidifying function is often required. The switch on/off of the dehumidifier can be controlled, for example, by a timer. In combination with the continuous draining of condensed water your basement can be dry again very soon.

### TIMER

The timer function allows you to set delayed start/stop of the air conditioner. Using this function, you can achieve a comfortable room temperature just before you return home or comfortable falling asleep and then undisturbed sleep during warm summer nights.

### CONTINUOUS DRAINING OF CONDENSED WATER

The AYRTON dehumidifiers offer highly efficient dehumidifying function. The condensed water is collected in an integrated water container or it is possible to connect the unit to a permanent water drainage. Using continuous water draining allows uninterrupted dehumidifying mode and thus increases its effectiveness.

### MOBILITY

The local air conditioners and dehumidifiers are equipped with castors. Quality components of the AYTRON products have their weight and the castors allow you to move units from one place to another comfortably.

### TECHNICAL SUPPORT

We are ready to answer your questions on our toll-free information line. Technical support, quality warranty/post-warranty service and flexibility ensures the best possible support for the AYRTON brand.

## WALL SPLIT UNITS

# AYC-09 AYC-12



CONNECTING  
CABLE



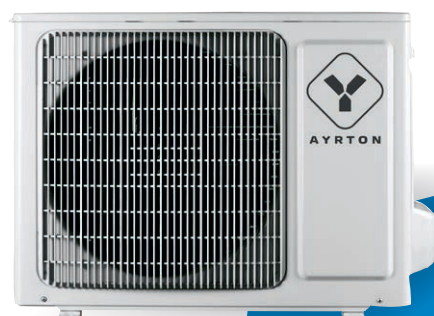
REMOTE  
CONTROL



INSTRUCTION  
MANUAL

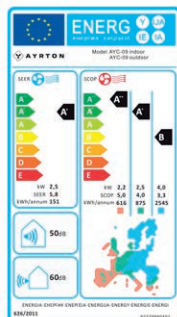


2x AIR  
FILTER



INVERTER

## AYC-09



Compact and stylish design

Function and temperature can be checked on the LED display

Cooling power 2,5kW

Heating power 2,8kW

Energy efficiency class A+/A+

Intelligent dehumidification

Optimum for room size 20–30m<sup>2</sup>

Up to 10m airflow range

Airflow can be directed both horizontally and vertically

Heating and cooling at outdoor temperatures down to -15°C

Sleep mode

Timer 0,5-24 hours

Minimal power consumption in standby mode

Auto restart

Remote control

Child safety lock on the remote control

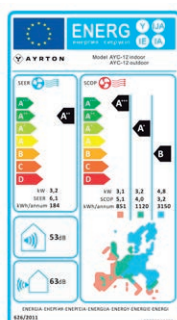
Easy user maintenance

This device requires professional installation

The warranty period is 3 years from the date of professional installation

**EAN: 8594046221229**

## AYC-12



Compact and stylish design

Function and temperature can be checked on the LED display

Cooling power 3,2kW

Heating power 3,4kW

Energy efficiency class A++/A+

Intelligent dehumidification

Optimum for room size 30–40m<sup>2</sup>

Up to 10m airflow range

Airflow can be directed both horizontally and vertically

Heating and cooling at outdoor temperatures down to -15°C

Sleep mode

Timer 0,5-24 hours

Minimal power consumption in standby mode

Auto restart

Remote control

Child safety lock on the remote control

Easy user maintenance

This device requires professional installation

The warranty period is 3 years from the date of professional installation

**EAN: 8594046221236**

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



LOCAL

AIR CONDITIONERS

AYM-07



CONNECTOR  
BETWEEN EXHAUST HOSE  
AND UNIT



CONNECTOR  
BETWEEN EXHAUST HOSE  
AND WINDOW TERMINAL



WINDOW  
TERMINAL



HOT AIR  
EXHAUST HOSE



SCREW FOR DRAIN  
HOSE BRACKET 1X



DRAIN HOSE  
BRACKET



DRAIN HOSE  
PLUG



DRAIN HOSE  
CLIP



DRAIN  
HOSE



REMOTE  
CONTROL

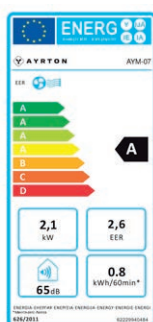


AAA BATTERY  
2X



INSTRUCTION  
MANUAL

## AYM-07



Slim and attractive design

Cooling power 2,1kW

Energy efficiency class A

Energy consumption in standby mode 0,3W

Sound pressure level 50/52/54 dB(A)

Sound power level 61/63/65 dB(A)

Intelligent dehumidification

Fan function

Optimum for room size 9–15m<sup>2</sup>

LED display

Manual setting of airflow in both horizontal and vertical directions

Operating temperature range of 16-35°C (ambient temperature)

User-adjustable temperature range of 16-30°C

Sleep mode

Timer 0,5-24 hours

Integrated water container with the function of evaporating the condensed water

Water container full indicator

Possibility of the continuous draining of condensed water

You must use the exhaust hose to exhaust hot air out of the room

The exhaust hose is supplied

Exhaust hose length: 150cm, hose diameter: 14,3cm

Remote control

Child safety lock on the remote control

Fault self-diagnosis - error messages „E\*“

Easy user maintenance

Colour: white with grey-green stripe

This device is intended for indoor use only

The warranty period is 2 years from the date of purchase

**EAN: 8594046221212**

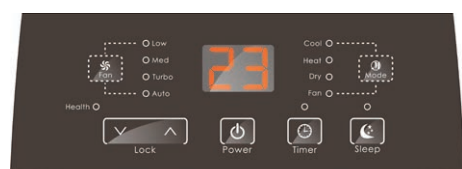
Contains the fluorinated greenhouse gases covered by the Kyoto Protocol.  
Refrigerant: R410A (50% HFC-32, 50% HFC-125), GWP 2088.



LOCAL

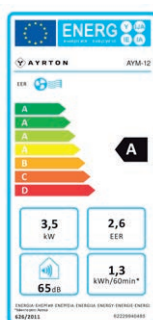
AIR CONDITIONERS

AYM-12

CONNECTOR BETWEEN  
EXHAUST HOSE AND UNITTERMINAL FOR WINDOW  
PANELHOT AIR EXHAUST  
HOSEWINDOW  
PANELSCREW FOR DRAIN HOSE  
BRACKET 10XDRAIN HOSE  
BRACKETDRAIN HOSE  
PLUGDRAIN HOSE  
CLIP 2XDRAIN  
HOSEWINDOW TERMINAL  
BRACKETREMOTE CONTROL  
HOLDERPOWER CABLE  
HOOKFOAM  
TAPEREMOTE  
CONTROLAAA BATTERY  
2XINSTRUCTION  
MANUAL



## AYM-12



Slim and attractive design

Cooling power 3,5kW

Energy efficiency class A

Energy consumption in standby mode 0,5W

Sound pressure level 51/53/55 dB(A)

Sound power level 61/63/65 dB(A)

Intelligent dehumidification

Fan function

Optimum for room size 20–30m<sup>2</sup>

Big LED display

Manual setting of airflow in both horizontal and vertical directions

Operating temperature range of 16-35°C (ambient temperature)

User-adjustable temperature range of 16-30°C

Sleep mode

Timer 0,5-24 hours

Integrated water container with the function of evaporating the condensed water

Water container full indicator

Possibility of the continuous draining of condensed water

You must use the exhaust hose to exhaust hot air out of the room

The exhaust hose is supplied

Exhaust hose length: 150cm, hose diameter: 15cm

Remote control

Child safety lock on the remote control

Fault self-diagnosis - error messages „E\*“

Easy user maintenance

Colour: beige with ivory sides

This device is intended for indoor use only

The warranty period is 2 years from the date of purchase

**EAN: 8594046221243**

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



## DEHUMIDIFIERS

## AYD-12

DRAINAGE  
CONNECTORINSTRUCTION  
MANUAL

## AYD-12

Elegant design

LED display

Dehumidification capacity 12 litres/day

Optimum for room size 10–18m<sup>2</sup>

Operating temperature range of 5-35°C (ambient temperature)

Adjustable dehumidification range of 35-80% RH

Timer for 2 or 4 hours

Large water container

Water container full indicator

Possibility of the continuous draining of condensed water

Auto restart

Low power consumption

2 fan speeds

Minimal noise

Easy user maintenance

Openings for easy carrying, casters

This device is intended for indoor use only

The warranty period is 2 years from the date of purchase

**EAN: 8594046221199**

*Contains the fluorinated greenhouse gases covered by the Kyoto Protocol.  
Refrigerant: R134a (100% HFC-134a), GWP 1430.*



## DEHUMIDIFIERS

## AYD-20



INDEPENDENT  
CASTERS 4X



DRAINAGE  
CONNECTOR



DRAIN  
HOSE



INSTRUCTION  
MANUAL

## AYD-20

Elegant design

LED display

Dehumidification capacity: 20 litres/day

Optimum for room size 18–25m<sup>2</sup>

Operating temperature range of 5-35°C (ambient temperature)

Adjustable dehumidification range of 35-80% RH

Dehumidifying modes: bedroom / living room / cellar / permanent dehumidification

Timer 0.5-24 hours

Large water container

Water container full indicator

Filter cleaning indicator

Possibility of the continuous draining of condensed water

Auto restart

Low power consumption

3 fan speeds

Minimal noise

Easy user maintenance

Carrying handle, castors

This device is intended for indoor use only

The warranty period is 2 years from the date of purchase

**EAN: 8594046221205**

*Contains the fluorinated greenhouse gases covered by the Kyoto Protocol.  
Refrigerant: R134a (100% HFC-134a), GWP 1430.*



# TECHNICAL SPECIFICATIONS

AYC-09

Split air conditioner **INVERTER**

FUNCTION				FUNCTION			
Cooling		YES		Average season		YES	
Heating		YES		Warmer season		YES	
				Colder season		YES	
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	P <sub>designc</sub>	2,5	kW	Cooling	SEER	5,8	--
Heating / Average	P <sub>designh</sub>	2,5	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	P <sub>designh</sub>	2,2	kW	Heating / Warmer	SCOP/W	5,0	--
Heating / Colder	P <sub>designh</sub>	4,0	kW	Heating / Colder	SCOP/C	3,3	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature T <sub>j</sub>				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = 35 °C	P <sub>dc</sub>	2,5	kW	T <sub>j</sub> = 35 °C	EERd	3,1	--
T <sub>j</sub> = 30 °C	P <sub>dc</sub>	1,8	kW	T <sub>j</sub> = 30 °C	EERd	4,5	--
T <sub>j</sub> = 25 °C	P <sub>dc</sub>	1,2	kW	T <sub>j</sub> = 25 °C	EERd	6,7	--
T <sub>j</sub> = 20 °C	P <sub>dc</sub>	0,5	kW	T <sub>j</sub> = 20 °C	EERd	10,9	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2,4	kW	T <sub>j</sub> = - 7 °C	COPd	2,7	--
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	1,5	kW	T <sub>j</sub> = 2 °C	COPd	4,0	--
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	1,0	kW	T <sub>j</sub> = 7 °C	COPd	4,9	--
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	0,4	kW	T <sub>j</sub> = 12 °C	COPd	6,2	--
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,8	kW	T <sub>j</sub> = bivalent temperature	COPd	2,3	--
T <sub>j</sub> = operating limit	P <sub>dh</sub>	2,4	kW	T <sub>j</sub> = operating limit	COPd	2,3	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	2,8	kW	T <sub>j</sub> = 2 °C	COPd	2,7	--
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	1,8	kW	T <sub>j</sub> = 7 °C	COPd	4,4	--
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	0,8	kW	T <sub>j</sub> = 12 °C	COPd	6,3	--
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,4	kW	T <sub>j</sub> = bivalent temperature	COPd	2,5	--
T <sub>j</sub> = operating limit	P <sub>dh</sub>	2,8	kW	T <sub>j</sub> = operating limit	COPd	2,6	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	1,7	kW	T <sub>j</sub> = - 7 °C	COPd	2,7	--
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	1,0	kW	T <sub>j</sub> = 2 °C	COPd	4,0	--
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	0,7	kW	T <sub>j</sub> = 7 °C	COPd	4,9	--
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	0,3	kW	T <sub>j</sub> = 12 °C	COPd	6,2	--
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,6	kW	T <sub>j</sub> = bivalent temperature	COPd	1,9	--
T <sub>j</sub> = operating limit	P <sub>dh</sub>	x,x	kW	T <sub>j</sub> = operating limit	COPd	x,x	--
T <sub>j</sub> = - 15 °C	P <sub>dh</sub>	2,4	kW	T <sub>j</sub> = - 15 °C	COPd	2,1	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	T <sub>biv</sub>	-7	°C	Heating / Average	T <sub>ol</sub>	-10	°C
Heating / Warmer	T <sub>biv</sub>	2	°C	Heating / Warmer	T <sub>ol</sub>	2	°C
Heating / Colder	T <sub>biv</sub>	-15	°C	Heating / Colder	T <sub>ol</sub>	-20	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	P <sub>cycc</sub>	x,x	kW	For cooling	EER <sub>cycc</sub>	x,x	--
For heating	P <sub>cyhc</sub>	x,x	kW	For heating	COP <sub>cyhc</sub>	x,x	--
Degradation co-efficient cooling	C <sub>dc</sub>	x,x	--	Degradation co-efficient heating	C <sub>dh</sub>	x,x	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P <sub>off</sub>	0,005	kW	Cooling	Q <sub>CE</sub>	151	kWh/a
Standby mode	P <sub>sb</sub>	0,005	kW	Heating / Average	Q <sub>HE</sub>	875	kWh/a
Thermostat-off mode	P <sub>td</sub>	0,006	kW	Heating / Warmer	Q <sub>HE</sub>	616	kWh/a
Crankcase heater mode	P <sub>ck</sub>	0,000	kW	Heating / Colder	Q <sub>HE</sub>	2545	kWh/a
Capacity control				Other items			
Fixed		NO		symbol	value	unit	
Staged		NO		L <sub>WA</sub>	50 / 60	dB(A)	
Variable		YES		Global warming potential	GWP	2088	kg CO <sub>2</sub> eq.
Other items				Rated air flow (indoor/outdoor)			
Energy class for cooling	A+			--	500/1600	m <sup>3</sup> / h	
Energy class for heating	A+			Other items			
Type of refrigerant	* R410A			symbol	value	unit	
Charge of refrigerant	0,7		kg	Power supply	~	220-240	V
Cooling capacity	2,5 (0,6 / 2,8)		kW	Frequency	f	50	Hz
Heating capacity	2,8 (0,6 / 3,0)		kW	Phase	Ph	1	--
Power input for cooling	max 800		W	Optimal room size	--	20 ~ 30	m <sup>2</sup>
Power input for heating	max 780		W	Adjustable temperature	--	16 ~ 30	°C
Rated current	cooling	6,7	A	Operating temperature	cooling	-15 ~ 48	°C
	heating	7,2	A	Operating temperature	heating	-15 ~ 24	°C
Dehumidifying capacity	--	0,8	l / h	Elevation of connection pipe	max	10,0	m
Dimensions of product ( w / h / d )				Length of connection pipe	max	15,0	m
Indoor unit	790 / 265 / 174		mm	Pipe diameter	liquid size	1/4	inch
Outdoor unit	776 / 540 / 320		mm		gas size	3/8	inch
Weight of product				Dimensions of package ( w / h / d )			
Indoor unit	8,5		kg	Indoor unit	873 / 358 / 251		mm
Outdoor unit	27		kg	Outdoor unit	823 / 583 / 358		mm
Weight of package				Weight of package			
Indoor unit				Indoor unit	10		kg
Outdoor unit				Outdoor unit	29,5		kg

## AYC-12

Split air conditioner **INVERTER**

FUNKCE				FUNKCE			
Cooling		YES		Average season		YES	
Heating		YES		Warmer season		YES	
				Colder season		YES	
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	P <sub>designc</sub>	3,2	kW	Cooling	SEER	6,1	--
Heating / Average	P <sub>designh</sub>	3,2	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	P <sub>designh</sub>	3,1	kW	Heating / Warmer	SCOP/W	5,1	--
Heating / Colder	P <sub>designh</sub>	4,8	kW	Heating / Colder	SCOP/C	3,2	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature T <sub>j</sub>				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = 35 °C	P <sub>dc</sub>	3,2	kW	T <sub>j</sub> = 35 °C	EERd	3,1	--
T <sub>j</sub> = 30 °C	P <sub>dc</sub>	2,4	kW	T <sub>j</sub> = 30 °C	EERd	4,6	--
T <sub>j</sub> = 25 °C	P <sub>dc</sub>	1,5	kW	T <sub>j</sub> = 25 °C	EERd	7,2	--
T <sub>j</sub> = 20 °C	P <sub>dc</sub>	0,7	kW	T <sub>j</sub> = 20 °C	EERd	11,1	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2,8	kW	T <sub>j</sub> = - 7 °C	COPd	2,5	--
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	1,7	kW	T <sub>j</sub> = 2 °C	COPd	3,9	--
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	1,1	kW	T <sub>j</sub> = 7 °C	COPd	5,2	--
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	0,5	kW	T <sub>j</sub> = 12 °C	COPd	6,6	--
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,5	kW	T <sub>j</sub> = bivalent temperature	COPd	2,1	--
T <sub>j</sub> = operating limit	P <sub>dh</sub>	3,2	kW	T <sub>j</sub> = operating limit	COPd	2,1	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	3,1	kW	T <sub>j</sub> = 2 °C	COPd	2,5	--
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	2,0	kW	T <sub>j</sub> = 7 °C	COPd	4,4	--
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	0,9	kW	T <sub>j</sub> = 12 °C	COPd	6,6	--
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,5	kW	T <sub>j</sub> = bivalent temperature	COPd	2,5	--
T <sub>j</sub> = operating limit	P <sub>dh</sub>	3,1	kW	T <sub>j</sub> = operating limit	COPd	2,5	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
Item	symbol	value	unit	Item	symbol	value	unit
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2,9	kW	T <sub>j</sub> = - 7 °C	COPd	2,4	--
T <sub>j</sub> = 2 °C	P <sub>dh</sub>	1,8	kW	T <sub>j</sub> = 2 °C	COPd	3,9	--
T <sub>j</sub> = 7 °C	P <sub>dh</sub>	1,1	kW	T <sub>j</sub> = 7 °C	COPd	5,2	--
T <sub>j</sub> = 12 °C	P <sub>dh</sub>	0,5	kW	T <sub>j</sub> = 12 °C	COPd	6,4	--
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,5	kW	T <sub>j</sub> = bivalent temperature	COPd	2,4	--
T <sub>j</sub> = operating limit	P <sub>dh</sub>	x,x	kW	T <sub>j</sub> = operating limit	COPd	x,x	--
T <sub>j</sub> = - 15 °C	P <sub>dh</sub>	4,6	kW	T <sub>j</sub> = - 15 °C	COPd	2,1	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	T <sub>biv</sub>	-10	°C	Heating / Average	T <sub>ol</sub>	-10	°C
Heating / Warmer	T <sub>biv</sub>	2	°C	Heating / Warmer	T <sub>ol</sub>	2	°C
Heating / Colder	T <sub>biv</sub>	-15	°C	Heating / Colder	T <sub>ol</sub>	-20	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	P <sub>cycc</sub>	x,x	kW	For cooling	EER <sub>cycc</sub>	x,x	--
For heating	P <sub>cyh</sub>	x,x	kW	For heating	COP <sub>cyh</sub>	x,x	--
Degradation co-efficient cooling	C <sub>dc</sub>	x,x	--	Degradation co-efficient heating	C <sub>dh</sub>	x,x	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P <sub>off</sub>	0,004	kW	Cooling	Q <sub>ce</sub>	184	kWh/a
Standby mode	P <sub>sb</sub>	0,004	kW	Heating / Average	Q <sub>he</sub>	1120	kWh/a
Thermostat-off mode	P <sub>to</sub>	0,006	kW	Heating / Warmer	Q <sub>he</sub>	851	kWh/a
Crankcase heater mode	P <sub>ck</sub>	0,000	kW	Heating / Colder	Q <sub>he</sub>	3150	kWh/a
Capacity control				Other items			
Fixed		NO		Sound power level (indoor/outdoor)	L <sub>wa</sub>	53 / 63	dB(A)
Staged		NO		Global warming potential	GWP	2088	kg CO <sub>2</sub> eq.
Variable		YES		Rated air flow (indoor/outdoor)	--	500/2200	m <sup>3</sup> / h
Other items				Other items			
Energy class for cooling		A++		Power supply	~	220-240	V
Energy class for heating		A+		Frequency	f	50	Hz
Type of refrigerant		* R410A		Phase	Ph	1	--
Charge of refrigerant		0,9	kg	Optimal room size	--	30 ~ 40	m <sup>2</sup>
Cooling capacity		3,2 (0,6 / 3,5)	kW	Adjustable temperature	--	16 ~ 30	°C
Heating capacity		3,4 (0,6 / 3,8)	kW	Operating temperature	cooling	-15 ~ 48	°C
Power input for cooling		max 1020	W	Operating temperature	heating	-15 ~ 24	°C
Power input for heating		max 995	W	Elevation of connection pipe	max	10,0	m
Rated current	cooling	7,2	A	Length of connection pipe	max	20,0	m
	heating	7,7	A	Pipe diameter	liquid size	1/4	inch
Dehumidifying capacity	--	1,4	l / h		gas size	1/2	inch
Dimensions of product ( w / h / d )				Dimensions of package ( w / h / d )			
Indoor unit		790 / 265 / 174	mm	Indoor unit		873 / 358 / 251	mm
Outdoor unit		842 / 596 / 320	mm	Outdoor unit		881 / 633 / 363	mm
Weight of product				Weight of package			
Indoor unit		8,5	kg	Indoor unit		10	kg
Outdoor unit		31	kg	Outdoor unit		34	kg

# TECHNICAL SPECIFICATIONS

## AYM-07

## Local air conditioner

Description	Symbol	Value	Unit
Rated capacity for cooling	$P_{rated}$ for cooling	2,1	kW
Rated capacity for heating	$P_{rated}$ for heating	-	kW
Rated power input for cooling	$P_{EER}$	0,79	kW
Rated power input for heating	$P_{COP}$	-	kW
Rated Energy efficiency ratio	EERd	2,6	-
Rated Coefficient of performance	COPd	-	-
Power consumption in thermostat-off mode	$P_{TO}$	89,2	W
Power consumption in standby mode	$P_{SB}$	0,276	W
Electricity consumption for cooling	$Q_{SD}$	0,8	kWh / h
Electricity consumption for heating	$Q_{SD}$	-	kWh / h
Sound power level	$L_{WA}$	65	dB(A)
Global warming potential	GWP	2088	kg eq. CO <sub>2</sub>
Energy class	cooling / heating	A / -	-
Refrigerant	type * / weight	R410A / 0,48	- / kg
Optimal room size	area	9 - 15	m <sup>2</sup>
Voltage	-	~ 220 - 240	V
Frequency	-	50	Hz
Rated current	-	4,9	A
Rated air flow	-	330	m <sup>3</sup> / h
Hose for hot air	length / diameter	150 / 14,3	cm
Dehumidifying	-	18,0	litres / day
Dimensions of product	(w x h x d)	300 x 807 x 375	mm
Dimensions of package	(w x h x d)	355 x 850 x 565	mm
Weight of product	-	24,0	kg
Weight with package	-	28,0	kg

\* R410A (50% HFC-32, 50% HFC-125)

\* Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

## AYM-12

## Local air conditioner

Description	Symbol	Value	Unit
Rated capacity for cooling	$P_{rated}$ for cooling	3,5	kW
Rated capacity for heating	$P_{rated}$ for heating	-	kW
Rated power input for cooling	$P_{EER}$	1,3	kW
Rated power input for heating	$P_{COP}$	-	kW
Rated Energy efficiency ratio	EERd	2,6	-
Rated Coefficient of performance	COPd	-	-
Power consumption in thermostat-off mode	$P_{TO}$	116	W
Power consumption in standby mode	$P_{SB}$	≤ 1,0	W
Electricity consumption for cooling	$Q_{SD}$	1,3	kWh / h
Electricity consumption for heating	$Q_{SD}$	-	kWh / h
Sound power level	$L_{WA}$	65	dB(A)
Global warming potential	GWP	2088	kg eq. CO <sub>2</sub>
Energy class	cooling / heating	A / -	-
Refrigerant	type * / weight	R410A / 1,0	- / kg
Optimal room size	area	20 - 30	m <sup>2</sup>
Voltage	-	~ 220 - 240	V
Frequency	-	50	Hz
Rated current	-	7,5	A
Rated air flow	-	360	m <sup>3</sup> / h
Hose for hot air	length / diameter	150 / 15,0	cm
Dehumidifying	-	24,0	litres / day
Dimensions of product	(w x h x d)	375 x 775 x 442	mm
Dimensions of package	(w x h x d)	555 x 885 x 437	mm
Weight of product	-	40,0	kg
Weight with package	-	45,0	kg

\* R410A (50% HFC-32, 50% HFC-125)

\* Contains fluorinated greenhouse gases covered by the Kyoto Protocol.



## AYD-12

## Dehumidifier

Description	Symbol	Value	Unit
Dehumidifying capacity (30°C DB / 27,1°C WB)*	-	12	l / day
Power input	P	230	W
Power input for dehumidification	P	260	W
Rated power input	P <sub>rated</sub>	340	W
Rated current	I <sub>rated</sub>	1,4	A
Sound pressure level	L <sub>WA</sub>	41 / 43	dB(A)
Rated air flow	-	100 / 115	m³ / h
Number of fan speeds	-	2	-
Water tank capacity	-	3,0	l
Optimal room size	area	10 - 18	m²
Operating temperature - dehumidification	-	5 - 35	°C
Adjustable range of relative humidity	-	35 - 80	%
Timer	-	2 / 4	h
Refrigerant **	type	R134a	-
Weight of refrigerant	-	0,09	kg
Global warming potential	GWP	1430	kg eq. CO <sub>2</sub>
Voltage	-	~ 220 - 240	V
Frequency	-	50	Hz
Dimensions of product	(w x h x d)	353 x 496 x 225	mm
Dimensions with package	(w x h x d)	396 x 530 x 274	mm
Weight of product	-	11,0	kg
Weight with package	-	12,0	kg

\* DB - dry bulb, WB - wet bulb

\*\* R134a (100% HFC-134a)

\*\* Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

## AYD-20

## Dehumidifier

Description	Symbol	Value	Unit
Dehumidifying capacity (30°C DB / 27,1°C WB)*	-	20	l / day
Power input	P	260	W
Power input for dehumidification	P	340	W
Rated power input	P <sub>rated</sub>	340	W
Rated current	I <sub>rated</sub>	1,6	A
Sound pressure level	L <sub>WA</sub>	44 / 46 / 48	dB(A)
Rated air flow	-	145 / 165 / 185	m³ / h
Number of fan speeds	-	3	-
Water tank capacity	-	3,6	l
Optimal room size	area	18 - 25	m²
Operating temperature - dehumidification	-	5 - 35	°C
Adjustable range of relative humidity	-	35 - 80	%
Timer	-	0,5 - 24	h
Refrigerant **	type	R134a	-
Weight of refrigerant	-	0,13	kg
Global warming potential	GWP	1430	kg eq. CO <sub>2</sub>
Voltage	-	~ 220 - 240	V
Frequency	-	50	Hz
Dimensions of product	(w x h x d)	351 x 492 x 260	mm
Dimensions with package	(w x h x d)	407 x 530 x 329	mm
Weight of product	-	15,0	kg
Weight with package	-	17,0	kg

\* DB - dry bulb, WB - wet bulb

\*\* R134a (100% HFC-134a)

\*\* Contains fluorinated greenhouse gases covered by the Kyoto Protocol.



AYRTON

#### Notes:

Name and address of the manufacturer or of its authorised representative. Contact details for obtaining more information.  
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Representative: SINCLAIR Global Group s.r.o., Purkyňova 45, Brno, CZ  
[www.ayrton-world.com](http://www.ayrton-world.com)

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