

SPLIT HEAT PUMP AIR CONDITIONERS

ARYAL

[S1 E]

Size	10, 12, 18, 24
Energy class	A++
Type	monosplit
Filtration	antidust activated carbons catalysts
Application	residential



Air Quality Technology

To improve indoor air quality in home environments, the unit is equipped with a triple-stage filtration system that combines a pre-filter (with anti-dust function), an activated carbon filter, effective against odors, and a cold catalytic filter capable of reducing impurities.

High output, in every season of the year

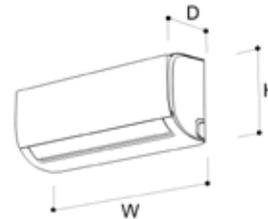
It allows even the largest rooms to be air-conditioned all year round, delivering up to 7.9 kW of maximum output in both cooling and heating modes. Therefore, it is also ideal for integrating or replacing a gas heating system, electrifying and optimising energy consumption of the home.

TECHNICAL INFO

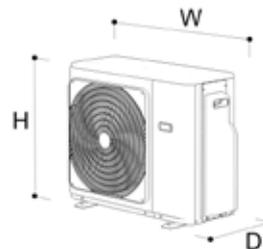
- Manual oscillation of horizontal airflow.
- Golden Fin treatment on the outdoor unit battery to prevent corrosive weathering.
- Wireless connectivity can be integrated by easily installing the USB flash drive, included in the indoor unit packaging.



DIMENSIONS AND WEIGHT



		10	12	18	24
W	mm	805	805	957	1040
H	mm	285	285	302	327
D	mm	194	194	213	220
WEIGHT	kg	7,6	7,6	10,0	12,3



		10	12	18	24
W	mm	720	720	805	890
H	mm	495	495	554	673
D	mm	270	270	330	342
WEIGHT	kg	23,2	23,2	32,7	42,9

-  **Cooling**
-  **Heating**
-  **Dehumidification**
-  **Ventilation**
-  **Auto Mode**
-  **Auto-diagnosis**
-  **Auto-restart**
-  **Defrost**
-  **Self Clean**
-  **Temperature Sensor**
-  **Silent Mode**
-  **Sleep Mode**
-  **Vertical swing**
-  **Timer**
-  **Turbo Mode**

TECHNICAL DATA

				Aryal S1 E Inverter 10 C	Aryal S1 E Inverter 12 C	Aryal S1 E Inverter 18 C	Aryal S1 E Inverter 24 C	
Indoor unit code				OS-SEAPH10EI	OS-SEAPH12EI	OS-SEAPH18EI	OS-SEAPH24EI	
Indoor unit EAN code				8021183115215	8021183115222	8021183115239	8021183115246	
Outdoor unit code				OS-KEAPH10EI	OS-KEAPH12EI	OS-KEAPH18EI	OS-KEAPH24EI	
Outdoor unit EAN code				8021183116564	8021183116588	8021183118827	8021183118834	
Product code				OS-K/SEAPH10EI	OS-K/SEAPH12EI	OS-K/SEAPH18EI	OS-K/SEAPH24EI	
EAN code				8021183116557	8021183116571	8021183118780	8021183118797	
Output power in cooling mode (min/rated/max)				(1) kW	0,91/2,64/3,40	1,11/3,40/4,16	3,39/5,27/5,83	2,08/5,86/7,91
Output power in heating mode (min/rated/max)				(1) kW	0,82/2,93/3,37	1,09/3,68/4,22	3,14/9,75/8,85	1,61/6,07/9,91
Absorbed power in cooling mode (min/rated/max)				(1) kW	0,10/0,73/1,24	0,13/1,04/1,58	0,56/1,55/2,05	0,42/1,78/3,15
Absorbed power in heating mode (min/rated/max)				(1) kW	0,12/0,73/1,20	0,10/0,99/1,68	0,78/1,298/2	0,3/1,608/2,75
Absorption in cooling mode (min/nom/max)				(1) A	0,40/3,20/5,40	0,5/4,56/6,9	2,4/6,7/8,9	1,8/7,7/13,8
Absorption in heating mode (min/nom/max)				(1) A	0,50/3,20/5,20	0,4/4,35/6,9	3,4/5,64/8,7	1,3/6,99/12,2
EER				(1)	3,60	3,28	3,40	3,28
COP				(1)	4,00	3,72	3,83	3,73
Maximum power consumption in cooling mode				(2) kW	2,15	2,15	2,50	3,50
Maximum power consumption in heating mode				(3) kW	2,15	2,15	2,50	3,50
Energy efficiency class in cooling				(4)	A++	A++	A++	A++
Energy efficiency class in heating mode - Average season				(4)	A+	A+	A+	A+
Energy efficiency class in heating mode - Warmer season				(4)	A+++	A+++	A+++	A+++
Energy efficiency class in heating mode - Cold season				(4)	-	-	-	-
Annual energy consumption in cooling mode				(4) kWh/year	156	211	247	405
Annual energy consumption in heating mode - Average season				(4) kWh/year	910	945	1435	1818
Annual energy consumption in heating mode - Warmer season				(4) kWh/year	714	706	1208	1691
Annual energy consumption in heating mode - Cold season				(4) kWh/year	-	-	-	-
Dehumidification capacity				(5) l/h	1,0	1,2	1,6	2,4
PROJECT LOADS (EN 14825)	Cooling	Pdesignc	(4) kW	2,8	3,6	5,2	7,0	
	Heating - Mid Season	Pdesignh	(4) kW	2,6	2,7	4,1	4,8	
	Heating - Hot season	Pdesignh	(4) kW	2,6	2,5	4,4	5,8	
	Heating - Cold Season	Pdesignh	(4) kW	-	-	-	-	
SEASONAL EFFICIENCY (EN14825)	Cooling	SEER	(4)	6,3	6,1	7,4	6,1	
	Heating - Mid Season	SCOP (A)	(4)	4,0	4,0	4,0	4,0	
	Heating - Hot season	SCOP (W)	(4)	5,1	5,1	5,1	4,8	
	Heating - Cold Season	SCOP (C)	(4)	-	-	-	-	
INDOOR UNIT	Sound power	LWA	(6) dB(A)	54	55	56	59	
	Sound pressure (silent/min/med/max)		(7) dB(A)	-25/32/39	-25/35/41	-26/36/42	-36/40/45	
	Indoor air flow rate in cooling mode (min/average/max)		m³/h	325/360/466	314/430/547	540/680/840	662/817/980	
	Indoor air flow rate in heating mode (min/average/max)		m³/h	325/360/466	314/430/625	540/680/840	662/817/980	
	Degree of protection of casing			IPX0	IPX0	IPX0	IPX0	
	Dimensions (WxHxD) (without packaging)		mm	805x285x194	805x285x194	957x302x213	1040x327x220	
	Weight (without packaging)		kg	7,6	7,6	10,0	12,3	
	Dimensions (WxHxD) (with packaging)		mm	870x365x270	870x365x270	1035x385x295	1120x405x315	
OUTDOOR UNIT	Weight (with packaging)		kg	9,7	9,8	13,0	15,8	
	Sound power	LWA	(6) dB(A)	62	63	63	67	
	Sound pressure		(8) dB(A)	55,5	56	56	59	
	Air flow rate		m³/h	1750	1800	2100	3500	
	Degree of protection of casing			IP24	IP24	IPX4	IPX4	
	Dimensions (WxHxD) (without packaging)		mm	720x495x270	720x495x270	805x554x330	890x673x342	
	Weight (without packaging)		kg	23,2	23,2	32,7	42,9	
	Dimensions (WxHxD) (with packaging)		mm	835x540x300	835x540x300	915x615x370	995x740x398	
COOLING CIRCUIT	Weight (with packaging)		kg	25,0	25,0	35,4	45,9	
	Liquid connection pipeline diameter		inch - mm	1/4" - 6,35	1/4" - 6,35	1/4" - 6,35	3/8" - 9,52	
	Connecting gas pipeline diameter		inch - mm	3/8" - 9,52	3/8" - 9,52	1/2" - 12,7	5/8" - 15,9	
	Maximum piping length		m	25	25	30	50	
	Maximum height difference		m	10	10	20	25	
	Piping length covered by precharge		m	5	5	5	5	
	Piping recommended minimum length		m	3	3	3	3	
	Refrigerant increase (over 5 m of pipes)		g/m	12	12	12	24	
	Maximum operating pressure (High/Low side)		MPa	4,3/1,7	4,3/1,7	4,3/1,7	4,3/1,7	
	Refrigerant gas	Type	(9)	R32	R32	R32	R32	
ELECTRICAL CONNECTIONS	Global warming potential	GWP		675	675	675	675	
	Refrigerant gas charge		kg	0,55	0,55	1,08	1,42	
	Indoor Unit Power Supply		V/F/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
	External Unit Power Supply		V/F/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
	Outdoor unit power supply connection	Pipes		3 x 1,5 mm2	3 x 1,5 mm2	3 x 1,5 mm2	3 x 2,5 mm2	
	Indoor - Outdoor unit connection	Pipes		5 x 1,5 mm2	5 x 1,5 mm2	5 x 1,5 mm2	5 x 2,5 mm2	
Maximum Current		A	10,0	10,0	13,0	15,5		

LIMITS OF OPERATING CONDITIONS

| Environment | Operating temperatures in cooling mode (min/max) | - / DB 50°C |
|---------------------|--|--------------------|--------------------|--------------------|--------------------|
| Outdoor environment | Operating temperatures in heating mode (min/max) | DB -20°C / DB 24°C |
| Indoor environment | Operating temperatures in cooling mode (min/max) | DB 17°C / DB 32°C |
| | Operating temperatures in heating mode (min/max) | DB 0°C / DB 30°C |

(1) The data refers to the EN 14511 Standard
 (2) Cooling test conditions: indoor temperature DB 32°C - WB 26°C; outdoor temperature DB 37°C
 (3) Heating test conditions: indoor temperature DB 27°C; outdoor temperature DB 3°C - WB 2°C
 (4) The data refers to the EN 14825 Standard
 (5) The data refers to DB 27°C - WB 19°C conditions
 (6) The data refers to the EN 12102 Standard
 (7) Test conditions: semi-anechoic chamber, unit positioned in free-field conditions, measuring instrument positioned at 1 metre, centred with respect to the internal unit and 0.8 metres below it
 (8) Test conditions: semi-anechoic chamber, unit positioned in free-field conditions, measuring instrument positioned at a distance of 1 metre at a height of 1 metre
 (9) Non-hermetically sealed equipment containing fluorinated GAS with a GWP equivalent of 675
 The actual power consumption of the product, in conditions of real use, may differ from what is indicated. The data are subject to change and modification without prior notice. Energy efficiency classes refer to a range between A+++ and D.