

# Haier

More Creation, More Possibilities

# Haier

HVAC Solutions



# EXPERT

Everything you need from an Expert

[Haierhvac.eu](http://Haierhvac.eu)

# EXPERT

## Residential Mono-Split Inverter

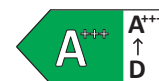
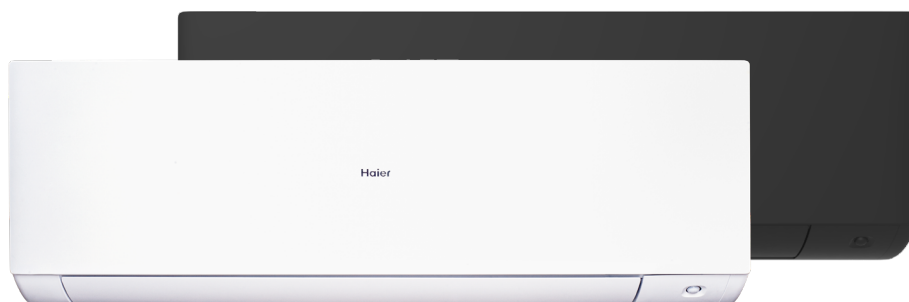
2,5 kW

5,0 kW

3,5 kW

7,1 kW

4,2 kW



### Everything You Need From An Expert

The EXPERT Air Conditioning range is available in 2.5kW - 7.1 kW sizes in a modern matt finish, with energy efficiencies of A+++ / A++. Its packed with great market leading features such as hOn Wi-Fi as standard for complete flexibility, the New UVC Pro sterilisation function which inhibits the SARS CoV-2 virus, Eco Sensor, and much more.

The EXPERT enables simple and easy cleaning of the internal fan where dust and bacteria can build up over time. Our clever design only requires the removal of a single screw to gain full access to the internal components. Airflow in the room is further enhanced through Coanda Plus & 3D Air Flow technology for even air distribution and comfort.

The range includes for the first time the new UVC Pro module which generates plasma to aid sterilisation for a healthier, cleaner, room air environment. The new UVC Pro has been independently tested by Texcell to inhibit SARS-CoV-2 at the unit to 99.991% effectiveness. The UVC Pro is also fast acting and was tested to achieve 85.208% effectiveness in a room space of 6.7m<sup>3</sup> in only four hours.

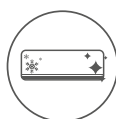
### Features



Easy Installation



I Feel



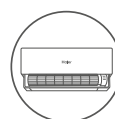
Self-Clean



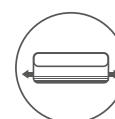
Eco Sensor



Wi-Fi control integrated



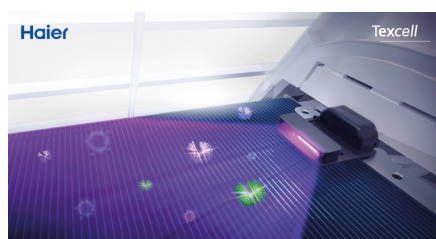
Easy to Disassemble



2 Way Piping design



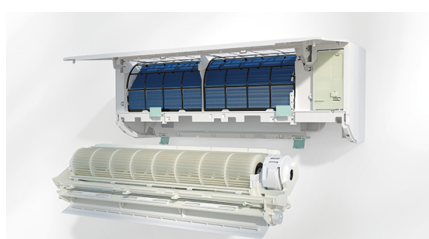
UVC Pro



### UVC Pro

The new UVC Pro function inhibits the reproduction of bacteria by breaking down hydrogen and oxygen molecules and generates an ionic group which inhibits bacteria and sterilises viruses after contact.

Independently tested by Texcell, it is fast acting and inhibits SARS-CoV-2. It has been tested to achieve 85.208% efficiency in a 6.7m<sup>3</sup> room in just four hours.



### Easy Disassembly

The structure of the indoor unit of the air conditioner is optimised. Dismantling is done by removing a single screw, providing access to the main components including the printed circuit, the motor and the fan. Maintenance and cleaning are simpler and easier than ever.

Regular cleaning of the main components is essential to keep the air conditioner clean and providing healthy air.

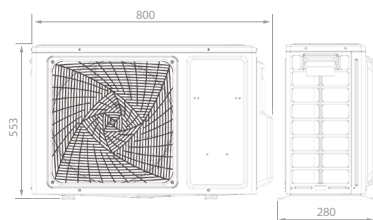


### Self-Clean

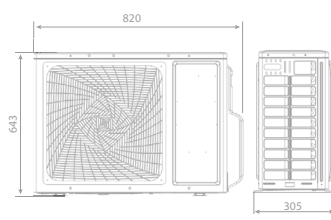
Our Self-Clean technology is the first of its kind to integrate the self-cleaning function of the evaporator and the condenser. It starts with cleaning the evaporator, then moves on to cleaning the condenser without stopping the compressor.

This innovative technology allows you to kill bacteria and keep the evaporator clean. It freezes the surface of the evaporator in contact with moisture in the air and eliminates dust in the defrosting process, thus ensuring the release of clean air.

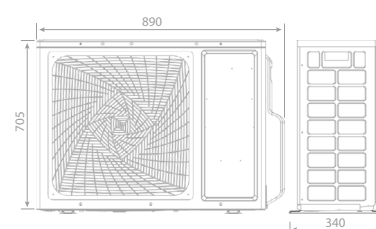
## Technical Illustrations



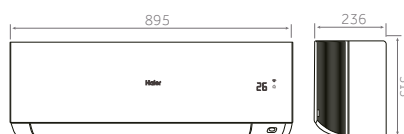
1U25 - 1U42



1U50



1U71



AS25 - AS35 - AS42 - AS50 - AS71

## Outdoor Unit



2.5 kW - 4.2 kW



5.0 kW



7.1 kW

## Controller



Standard HR-HJ

INDOOR UNIT WHITE			Model	AS25XCAHRA	AS35XCAHRA	AS42XCAHRA-MB1	AS50XCAHRA	AS71XCAHRA
INDOOR UNIT BLACK			Model	AS25XCAHRA-MB	AS35XCAHRA-MB	AS42XCAHRA-1	AS50XCAHRA-MB	AS71XCAHRA-MB
OUTDOOR UNIT			Model	1U25S2SM1FA-2	1U35S2SM1FA-2	1U42S2SM1FA	1U50S2S1J2FA-2	1U71S2ST1FA
Performance data								
Output power - COOLING	nom (min-max)	KW		2,80 (0,80-3,20)	3,50 (1,00-4,00)	4,20 (1,20-4,80)	5,00 (1,40-5,50)	6,20 (2,20 - 7,00)
Output power - HEATING	nom (min-max)	KW		3,20 (0,80-4,20)	4,20 (1,00-5,20)	4,40 (1,30-5,80)	5,60 (1,70-6,20)	6,80 (2,40 - 7,80)
Absorbed power - COOLING	nom (min-max)	KW		0,651 (0,20-1,20)	0,875 (0,30-1,40)	1,30 (0,40-1,70)	1,470 (0,50-2,00)	1,92 (0,70 - 2,60)
Absorbed power - HEATING	nom (min-max)	KW		0,761 (0,30-1,50)	1,037 (0,50-1,60)	1,190 (0,52-2,20)	1,509 (0,52-2,30)	1,83 (0,60 - 2,90)
Energy Class	EER	W/W		4,30	4,00	3,23	3,40	3,23
	COP	W/W		4,20	4,05	3,71	4,00	3,71
COOLING Pdesign	35 °C	KW		2,80	3,50	4,20	5,00	6,20
HEATING Pdesign	(-10 °C)	KW		2,50	2,80	3,60	4,60	5,60
Energy Class	SEER			8,80 (A+++)	8,50 (A+++)	7,00 (A++)	6,60 (A++)	6,80 (A++)
	SCOP			4,75 (A++)	4,75 (A++)	5,10 (A+)	4,60 (A++)	4,00 (A+)
Annual Energy Consumption - COOLING		kWh/a		111	144	210	265	320
Annual Energy Consumption - HEATING		kWh/a		737	825	1260	1400	1960
Indoor Unit								
Power supply		Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Treated air volume	H	m3/h		730	800	800	880	920
Dehumidification		L/h		1,2	1,6	1,8	2,0	2,8
High sound power - COOLING		dB		56	57	57	60	65
High sound power - HEATING		dB		56	57	57	60	65
Sound pressure - COOLING		dB(A)		39/32/25/16	40/33/26/17	40/33/26/17	45/37/29/20	47/45/37/29
Sound pressure - HEATING		dB(A)		39/32/25/16	40/33/26/17	40/33/26/17	45/37/29/20	47/45/37/29
Net dimensions	WxDxH	mm		895x236x313	895x236x313	895x236x313	895x236x313	895x236x313
Packaging dimensions	WxDxH	mm		964x386x316	964x386x316	964x386x316	964x386x316	964x386x316
Net/gross weight		kg		11,3/14,0	11,3/14,0	11,3/14,0	11,6/14,2	12,4/14,8
Outdoor Unit								
Power supply		Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power cable		N x mm2		3 x 1,5	3 x 1,5	3 x 1,5	3 x 2,5	3 x 2,5
Interconnection cable		N x mm2		4 x 1,0	4 x 1,0	4 x 1,0	4 x 1,0	4 x 1,0
Sound power		dB		59	61	63	63	68
Sound pressure		dB(A)		47	48	50	51	57
Running current cooling/heating	Max	A		6,8/6,8	7,2/7,2	8,2/8,2	10,68/10,68	11,8/13
Starting current cooling/heating	Max	A		1,5/1,5	1,5/1,5	2,0/2,0	2,0/2,0	2,0/2,0
Net dimensions	WxDxH	mm		800 x 280 x 553	800 x 280 x 553	800 x 280 x 553	820 x 305 x 643	890 x 340 x 705
Packaging dimensions	WxDxH	mm		902 x 375 x 614	902 x 375 x 614	902 x 375 x 614	940 x 390 x 697	1046 x 460 x 780
Net/gross weight		kg		27,6/30,4	30,0/32,9	31,5/34,0	37,8/40,5	45,0/45,0
Compressor type				Rotary Inverter	Rotary Inverter	Rotary Inverter	Twin Rotary Inverter	Twin rotary inverter
Installation data								
Refrigerant				R32	R32	R32	R32	R32
Liquid pipe	Ø	mm (inch)		6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	6,35 (1/4)	9,52 (3/8)
Gas pipe	Ø	mm (inch)		9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	12,70 (1/2)	15,88 (5/8)
Standard pipe length without refrigerant charge		m		7	7	7	7	7
Maximum pipe length		m		20	20	20	25	50
Maximum IU - OU elevation		m		10	10	10	15	30
Refrigerant charge in the factory		kg		0,63	0,78	0,94	1,10	1,23
Refrigerant charge in the factory		TCO2eq		0,43	0,53	0,63	0,74	0,83
Additional ref. charge over std length		g/m		20	20	20	20	45
Operating limits - COOLING (in/out)	min-max	°C		21-35°C/-20-43°C				
Operating limits - HEATING (in/out)	min-max	°C		10-27°C/-20-24°C				



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