

Haier

More Creation, More Possibilities

Haier

HVAC Solutions



PEARL R290

The greener alternative for
comfort cooling & heating

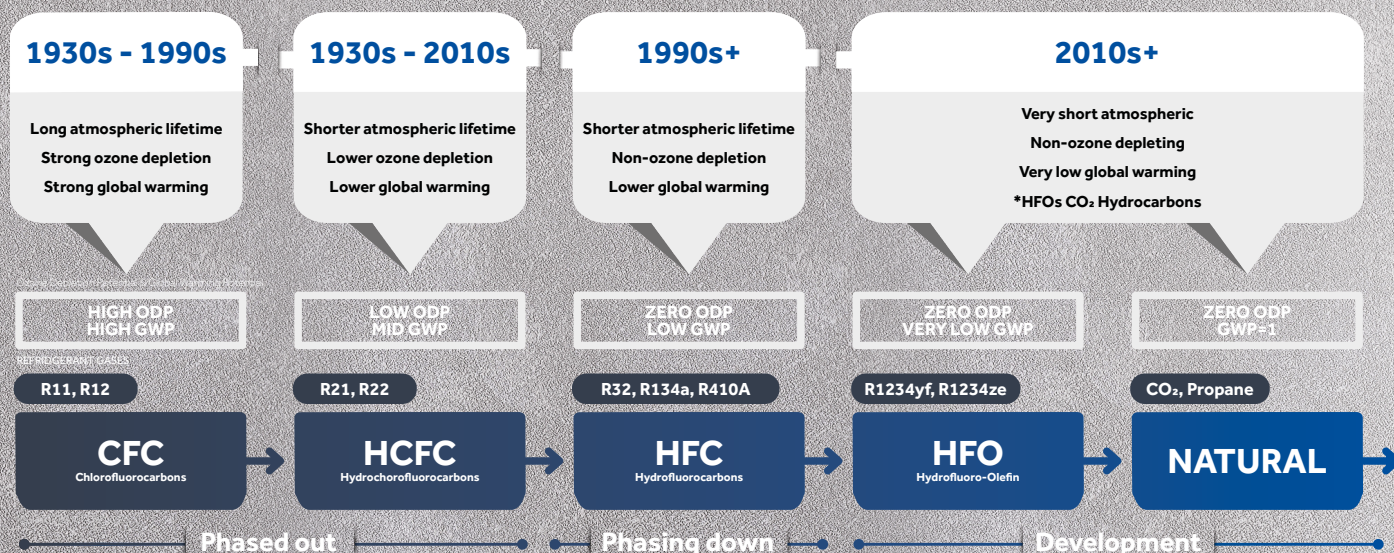
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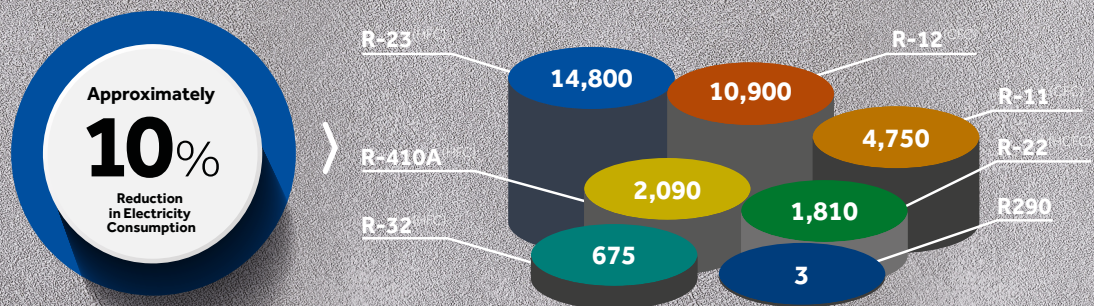
PEARL R290

Residential Mono-Split Inverter

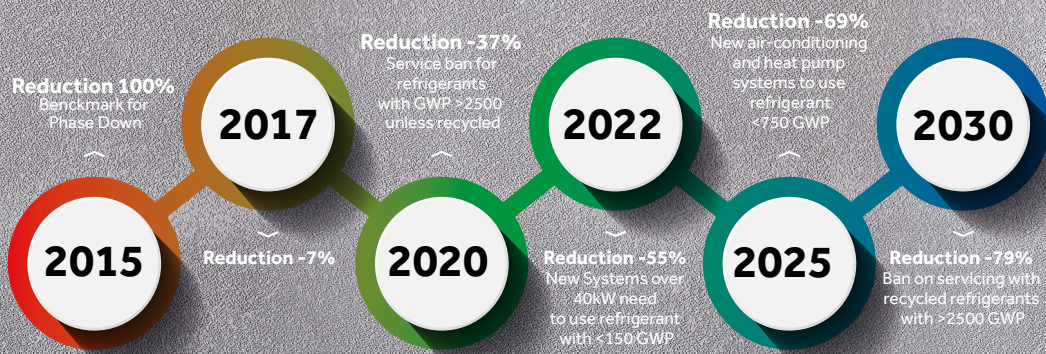
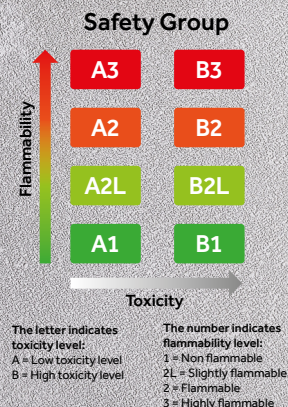
R290 Transition Towards Lower GWP Refrigerants



100 Year Global Warming Potential of Different Refrigerants*



Source: Values for 100 Global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100 year GWP: HFC410A, 2,090; HFC32, 675*



R290 Refrigerant type: Natural GWP: 3 Safety Group: A3	R744 (CO ₂) Refrigerant type: Natural GWP: 1 Safety Group: A1
R717 (Ammonia) Refrigerant type: Natural GWP: 0 Safety Group: B2L	R32 Refrigerant type: HFC GWP: 675 Safety Group: A2L
R410A Refrigerant type: HFC GWP: 2090 Safety Group: A1	



Deliver Ultimate Airflow

Elegant matte white finish with R290 natural refrigerant. This natural alternative refrigerant comes with low-condensing temperature and thermodynamic properties that maximises energy efficiency and saves money.



Low Impact on Environment

R290 is a natural refrigerant that does not affect the ozone layer. R290 is a natural, safe, and non-toxic alternative is not only friendly to our environment but also cost-effective.



Safe Operation

The indoor and outdoor PCB boxes are sealed which isolates the electrical components from the refrigerant and therefore improves the safety of the whole machine. Furthermore, flame repellent materials are used for the indoor and outdoor PCB box.

TECHNOLOGY

Eco Refrigerant

R290 (propane) is a natural refrigerant with ODP=0, GWP=3. Furthermore, it has excellent heat transmission efficiency.



Sealed box design



Design of explosion-proof components



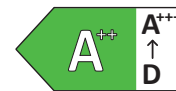
Cabinet fire protection design

PEARL R290

Residential Mono-Split Inverter

2,5 kW

3,5 kW



The **Pearl R290**, your greener solution to comfort Cooling & Heating. This natural refrigerant offers a GWP of less than 3, with low-condensing temperature and thermodynamic properties that maximises energy efficiency and saves money. R290 is a natural, safe, and non-toxic alternative refrigerant which is friendlier to the environment and still maintains a high energy efficiency of A++.

Features



Coanda Plus



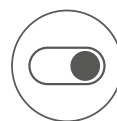
Self-Clean



Wi-Fi control integrated



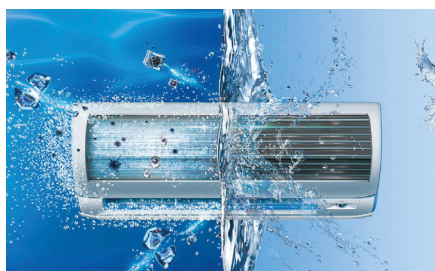
Easy Installation



On/Off



Silence



Self Clean

The Self Clean technology is the first of its kind to integrate the self-cleaning function of both the evaporator and the condenser without stopping the compressor.

It has mainly 2 advantages : this innovative technology allows you to kill bacteria and keep the evaporator clean but it also helps your air conditioner always works at maximum cooling capacity with very high energy efficiency.



hOn Wi-Fi Control

Haier's new "hOn" Wi-Fi app allows you to control all the Haier Group appliances in your connected (smart) home from a single app on your smartphone or tablet.

The hOn app allows you to manage all basic functions and more. The app can also respond to voice commands as it is compatible with Google Assistant and Alexa.



Coanda Plus Air Flow

The special aerodynamic design of the air vents lets the airflow go farther and more powerfully, while keeping noise and power consumption low with the smoother airflow.

The Coanda Plus airflow, consisting of 3 micro-perspective subparts, delivers the air more intuitively, and forms the circulation throughout the space.

Technical Illustrations



AS25 - AS35

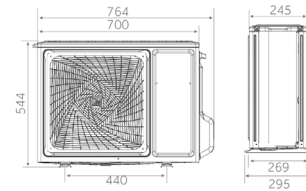
Outdoor Unit



2,5 kW

3,5 kW

Outdoor Dimensions



1U25 - 1U35

Controller



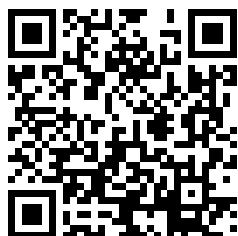
Standard YR-HE

INDOOR UNIT			Model	AS25PBBHRA	AS35PBBHRA
OUTDOOR UNIT			Model	1U25YEBGRA	1U35YEBGRA
Performance data					
Output power - COOLING	nom (min-max)	kW		2,60 (0,80-2,90)	3,50 (0,80-4,00)
Output power - HEATING	nom (min-max)	kW		2,80 (0,80-2,90)	3,50 (0,80-4,10)
Absorbed power - COOLING	nom (min-max)	kW		0,804 (0,30-1,50)	1,291 (0,30-1,50)
Absorbed power - HEATING	nom (min-max)	kW		0,754 (0,30-1,50)	0,969 (0,80-4,10)
Energy class	EER	W/W		3.23	2.71
	COP	W/W		3.71	3.61
COOLING Pdesign	C° 35	kW		2.60	3.50
HEATING Pdesign	(C° -10)	kW		2.10	2.50
Energy class	SEER			6.8 (A++)	6.2 (A++)
	SCOP			4.6 (A++)	4.6 (A++)
Annual Energy Consumption - COOLING		kWh/a		134	198
Annual Energy Consumption - HEATING		kWh/a		639	761
Indoor Unit					
Power supply		Ph/V/Hz		1/220-240/50	1/220-240/50
Treated air volume		m3/h		580	650
Dehumidification		L/h		1,2	1.4
High sound power - COOLING		dB		56	57
High sound power - HEATING		dB		56	57
Sound pressure - COOLING		dB(A)		37/32/28/18	37/33/29/19
Sound pressure - HEATING		dB(A)		37/32/28/18	37/33/29/19
Net dimensions	WxDxH	mm		805x200x292	805x200x292
Packaging dimensions	WxDxH	mm		876x272x365	876x272x365
Net/gross weight		kg		8,3/ 10,6	8,3/ 10,6
Outdoor Unit					
Power supply		Ph/V/Hz		1/220-240/50	1/220-240/50
Power cable		N x mm2		3x 1,0	3x 1,5
Interconnection cable		N x mm2		4x 1,0	4x 1,0
Sound power		dB		62	63
Sound pressure		dB(A)		48	49
Running current cooling/heating	Max	A		6,4/ 6,4	7,0/ 7,0
Starting current cooling/heating	Max	A		1,5/ 1,5	1,5/ 1,5
Net dimensions	WxDxH	mm		700x245x544	700x245x544
Packaging dimensions	WxDxH	mm		819x320x592	819x320x592
Net/gross weight		kg		24.5/27	24.5/27
Compressor type				Rotary Inverter	Rotary Inverter
Installation data					
Refrigerant				R290	R290
Liquid pipe	Ø	mm(inch)		6,35 (1/4)	6,35 (1/4)
Gas pipe	Ø	mm(inch)		9,52 (3/8)	9,52 (3/8)
Standard pipe length without refrigerant charge		m		10	10
Maximum pipe length		m		10	10
Maximum IU - OU elevation		m		10	10
Refrigerant charge in the factory		kg		0,31	0,31
Refrigerant charge in the factory		TCO2eq		-0	-0
Additional ref. charge over std length		g/m		no additional charge allowed	
Operating limits - COOLING (in/out)	min-max	C°		21~35°C/-10~43°C	
Operating limits - HEATING (in/out)	min-max	C°		10~27°C/-15~24°C	

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