



United Technologies
turn to the experts 




Inverter Hybrid Boiler System




The unique inverter technology provides highly pleasant atmosphere to a building with lower energy consumption.


Eco-Friendly & high efficiency Inverter Hybrid Boiler System

Connected with a heat pump outdoor unit, the inverter hybrid boiler system makes heating, floor heating and hot tap water possible. In addition, it consumes lower electricity and minimizes carbon dioxide emission significantly, comparing with a conventional fossil fuel boiler and a conventional electric boiler.

 **Economics** | High efficiency provides up to 65% saving versus a conventional boiler

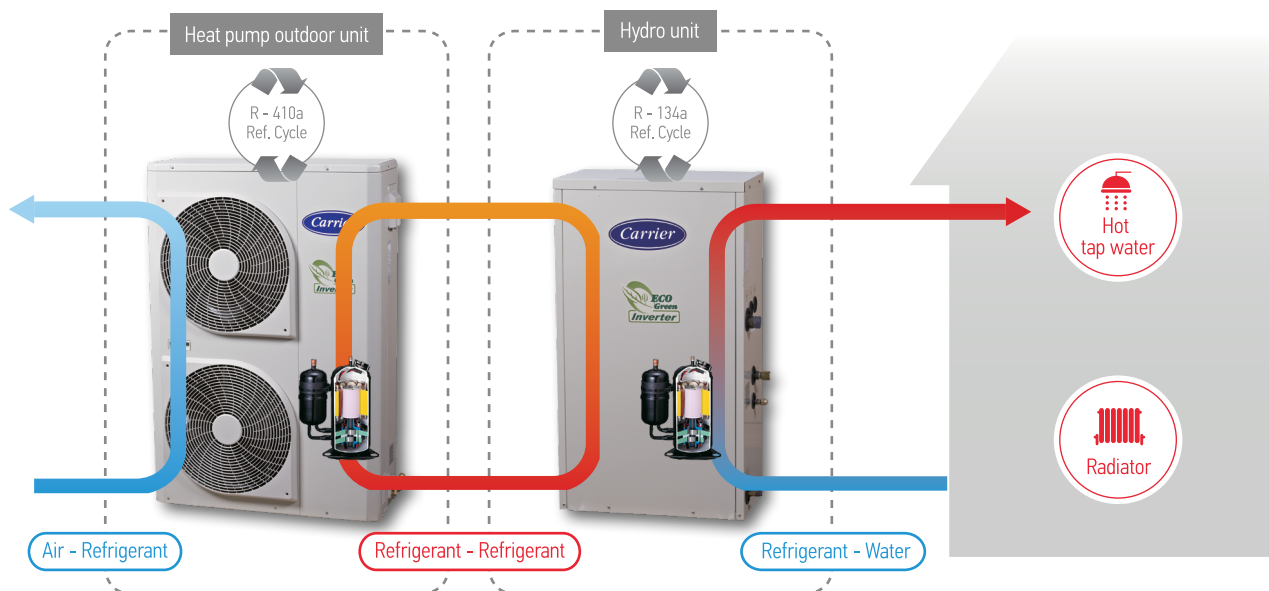
 **Convenience** | Smart remote control and monitoring system (optional)

 **Low Noise** | Low noise level

 **Installation** | Compact split system for easy installation and maintenance

Principle of the Inverter Hybrid Boiler System

The Inverter Hybrid Boiler System is suitable for sanitary hot water production and space heating, where up to 80°C water temperature is required, with the unique technologies of a dual cascade compression and of optimal plate heat transfer. Since it consumes lower electricity consumption and minimizes carbon dioxide emission, compared with a conventional fossil fuel boiler, it is an ultra-energy saving, eco-friendly, high efficiency solution for space heating and sanitary hot water production.



Usage of the Inverter Hybrid Boiler System

With the dual inverter cascade compression technology, the high efficiency inverter hybrid boiler system can be applicable for the purposes of heating and hot water utilities.

The unique inverter technology provides highly pleasant atmosphere to a building with lower energy consumptions.



Dual inverter cascade compression technology is applied



R-410a and R-134a refrigerants are applied for minimizing ozone depletion potential



For replacing a conventional boiler



School



House



Hospital



Hotel Facilities

Technical Specifications

Inverter Hybrid Boiler System(30AWH-025Q)				
Heating Capacity			[KW]	24,5
Electricity	Integrated Efficiency	COP	[W/W]	3,31 ⁽¹⁾
	Max power consumption	(System required)	[KW]	11,86
	Leakage Breaker	(3Ph with neutral)	[A]	25
Hot Water	Inlet Temp.	Usage range	[°C]	15 ~ 80
	Outlet Temp.	Max.	[°C]	80
	Flow rate	Usage range	[LPM]	20 ~ 60

Outdoor unit specification (30AWH-025QO)			
Power input		-	3Ph. with NEUTRAL, 400VAC/50Hz
Compressor	Spec Refrigerant (charging)	-	DC Inverter Twin Rotary R410A (2,540g)
Size & weight	Dimension Weight	[mm]	W900 x H1360 x D320
		[kg]	95
Refrigerant piping (R-410a)	Liquid pipe(φ) Gas pipe(φ)	[mm]	9,52
		[mm]	15,88
Ambient temp range		[°C]	-20 ~ 40

⁽¹⁾ Outdoor temperature 7/6°C DB/WB, EWT/LWT 40/45°C, Heating Capacity 16,7 KW.

Indoor unit specification (30AWH-025QI)			
Power input		-	3Ph. with NEUTRAL, 400VAC/50Hz
Compressor	Spec Refrigerant (charging)	-	DC Inverter Twin Rotary R134a (1,800g)
Heat exchanger 1 (refrigerant –refrigerant)	Spec	-	BPHE (Brazed Plate Heat Exchanger)
Heat exchange 2 (refrigerant – water)	Spec Pressure loss	[kPa]	BPHE (Brazed Plate Heat Exchanger)
Size & weight	Dimension Weight	[mm]	W570 x H1030 x D330
		[kg]	93
Outdoor unit connection piping (R410a)	Liquid pipe (φ) Gas pipe (φ)	[mm]	9,52
		[mm]	15,88
Water pipe size (hot water)	Inlet pipe (φ)	[mm]	25
	Outlet pipe (φ)	[mm]	25
Ambient temp range		[°C]	5 ~ 40



AHI CARRIER SOUTH EASTERN EUROPE S.A.

Headquarters
18, Kifissou Ave
104 42 - Athens, GREECE
Tel.: +30 210 6796 300
www.ahi-carrier.gr

Thessaloniki Branch
Ag. Georgiou 5, Cosmos Offices
570 01 - Patriarchiko Pileas,
Thessaloniki, GREECE
Tel.: +30 23130 80430

Bulgaria Branch
25 Petar Dertliev blvd
1324 - Sofia
BULGARIA
Tel.: +35 929 483 960

Romania Branch
270d Tumu Magurele str Sector 4
Cavar center - Bucharest
ROMANIA
Tel.: +40 214 050 751