











System code (*)	System model			
0XHK4NWD				
0XHK4MWD	IDOLA S HYBRID H 3.2 04			
0XHK4KWD				
0XHK6NWD				
0XHK6MWD	IDOLA S HYBRID H 3.2 06			
0XHK6KWD				
0XHK8KWD	IDOLA S HYBRID H 3.2 08			
0XHK8MWD	IDULA S RIBNID R 3.2 00			
OXHKAMWD	IDOLA S HYBRID H 3.2 10			
0XHKAKWD	IDULA 3 HTBNID H 3.2 IU			

(*) The code will be confirmed during the order phase based on the commercial back office availability

THE CONTROL SYSTEM

- The interface features Capsense technology with a 2.8" graphic display for user-friendly, practical interaction. The on-board machine interface communicates seamlessly with the new Connect CRP smart systems, which can control up to 8 thermostats (of which 7 are Connect CRP Zones), divided into 2 zones, one direct and one mixed
- MODBUS PROTOCOL for smart control via an external BMS
- HEATING AND COOLING with Full Inverter modulation by Lamborghini CaloreClima which allows you to set the temperature curve to reduce consumption and improve user comfort.
- SMART GRID INPUT FROM PHOTOVOLTAIC SYSTEM AND GRID. Smart Grid contacts to optimise your consumption and save on energy bills. We invite you to read the manuals for more details.
- REMOTE CONTROL VIA APP. Available for iOS and Android using the Connect CRP (optional)
- SILENT PDC MODE. Reduces the maximum compressor frequency and fan speed, thus significantly reducing noise levels.
- ON/OFF and SUMMER/WINTER from external contacts. The unit can be switched on and off via an external contact, by receiving summer/winter switching signals (e.g. from the zone thermostat). The operating mode will follow the controller settings
- ECO Dedicated setpoint for "Eco" mode. Can be set with a daily time slot
- WEEKLY HOURLY PROGRAMMING. The Connect CRP (optional) allows differentiated hourly programming for each day of the week, defining the mode (COOL/WARM/DHW) and operating setpoints for each time slot.

Idola S Hybrid H

R32 air-to-water reversible hybrid heat pumps for split installation; can be combined with external DHW heater

- The IDOLA S HYBRID H 3.2 hybrid heat pumps combine R32 ecofriendly heat pump technology and the condensation boiler for heating in a single compact product.
- The eco-friendly **R32** gas combines high efficiency with a reduced environmental impact. Thanks to its **GWP of 675**, about a third compared to the GWP of R410a, it helps to reduce emissions of CO₂, which are the main cause of global warming.
- The compact size, similar to that of a wall-hung boiler, makes it easier to replace without significant loss of space or the need for major restructuring work.
- By running the boiler or heat pump as the climatic conditions vary, the internal electronics optimise the output of the system by constantly operating in the most economic and efficient mode possible, with excellent benefits for the end user.
- The boiler will be free to produce DHW in the external DHW storage tank during heat pump heating or cooling operations, thereby maximising the comfort levels. In the unlikely event that the heat pump is blocked, the boiler will still be able to operate autonomously in backup mode, thus guaranteeing heating and the production of DHW.
- The system consists of a Full DC Inverter external unit, available with a choice of 4 different powers, associated with a hybrid internal unit and condensation unit with an integrated hydronic module, including a DC inverter pump for the control of the cooling circuit. The system is extremely versatile and capable of operating in harsh climate conditions up to -20°C outdoors. It avoids the risk of freezing thanks to a split cooling circuit.
- The Photovoltaic Input function prevents the boiler from producing DHW, promoting the use of the heat pump only and any electric water heater, thus maximising self-consumption and the benefits for the user.
- Wall flue gas exhaust in the cases pertaining to Italian Leg. Decree no. 102 of 4 July 2014.

FEATURES OF THE OUTDOOR UNIT:

- Approved for external use in completely exposed site
- Powered by R32 eco-friendly gas with low environmental impact
- Inrush current and reduced noise thanks to Full Inverter technology
- Compressor with twin rotary DC INVERTER motor on vibration damping supports and wrapped in double layer of soundproofing material to minimise vibrations and noise.
- Axial fans with DC brushless motor including protective grilles
- External air temperature probe pre-installed on the unit.

FEATURES OF THE INDOOR UNIT:

- Sturdy and suitable for replacements even in particularly critical systems.
- Combustion module with a 1:10 modulation range and extra-thick stainless steel heat exchanger with larger channels to maintain high efficiency even on old oxidised and soiled systems
- Standard supply with squared system supply and return valves (with easyaccess filter for inspection)
- M.G.R: Methane, LPG, Propane-air Ready, with a simple configuration, the boiler can run on natural gas, LPG and a propane-air mixture without the use of any additional conversion kits
- MC²: Multi Combustion Control, combustion system with patented gasadaptive technology for improved adaptability of use to variations in the gas supply conditions (e.g. pressure fluctuations or drops)
- F.P.S: Flue gas protection system. The standard flue gas check valve offers easy connection to pressurised collective flue systems
- Particularly suited to operating in flues requiring "heavy-duty" pipes thanks to approval for operation with flue gas exhaust pipes with a diameter of 50mm



IDOLA S 3.2 HY H	04 06		08		10				
ERP class in heating / Seasonal efficiency average temperature (produced water 35°C)		A D	187	A	191	A	200	A	201
ERP class in heating / Seasonal efficiency low temperature (produced water 55°C)		A T	128	A T	136	A. L.	130	A A	135
SCOP (low temperature 35°C)	W/W	4.75 4.85		5.08		5.10			
SEER (produced water 7°C)	W/W	4.99		5.34		5.83		5.98	
Power supply	V-ph-Hz	220/240-1-50							
Type and no. of compressors	-	1 x Twin Rotary DC							
Type of exchanger system side / source side	-	brazed stainless steel plates / finned coil							
Type of fans / no. of fans	-	brushless DC / 1							
Refrigerant fittings - liquid line	Ø	1/4" SAE / Ø 6.35 3/8" SAE / Ø 9.52							
Refrigerant fittings - gas line	Ø	5/8" SAE / Ø 15.88							
Indoor unit expansion vessel volume	L	8							
SWL - outdoor* / indoor* unit sound power level dB(A		55 / 43		58 / 43		59 / 43		60 / 43	
Outdoor / indoor unit weight	kg	58 / 28 77 / 28							

NOTE: Efficiency class calculated according to the European regulation 811/2013. The values refer to a unit without any optionals or accessories. * **SWL** = Sound power level, for 1x10⁻¹² W with unit functioning in **A7W35** conditions. The Total sound power level in dB(A) is measured in accordance with standard ISO 9614. The Total Sound Power in dB(A) which is, therefore, the only demanding acoustic data. The sound pressure levels are values calculated from the sound power level (SWL) applying the ISO-3744 relationship.

PEI	RFORMANCE DATA		04	06	08	10
25	Nominal heat output	kW	4.20	6.35	8.40	10.0
A7W35	Nominal input power	kW	0.82	1.28	1.63	2.02
¥	COP	W/W	5.10	4.95	5.15	4.95
45	Nominal heat output	kW	4.30	6.30	8.30	10.0
A7W	Nominal input power	kW	1.13	1.70	2.16	2.67
¥	COP	W/W	3.80	3.70	3.85	3.75
18	Designed cooling capacity	kW	4.50	6.50	8.30	9.90
A35W18	Nominal input power	kW	0.82	1.35	1.64	2.18
A3	EER	W/W	5.50	4.80	5.05	4.55
1	Designed cooling capacity	kW	4.70	6.50	7.45	8.20
A35W7	Nominal input power	kW	1.36	2.17	2.22	2.52
¥	EER	W/W	3.45	3.00	3.35	3.25

The values refer to a unit without any optionals or accessories. Data declared according to **EN 14511: EER** (Energy Efficiency Ratio) = ratio of cooling power to input power **COP** (Coefficient Of Performance) = ratio of heat output to input power **A7W35** = source: air in 7° C d.b. 6° C w.b. / system: water in 30° C out 35° C **A7W45** = source: air in 7° C d.b. 6° C w.b. / system: water in 40° C out 45° C **A35W7** = source: air in 35° C d.b. / system: water in 23° C out 18° C **A35W7** = source: air in 35° C d.b. / system: water in 25° C out 25° C NOTES: Efficiency class calculated according to the European regulation **811/2013**.

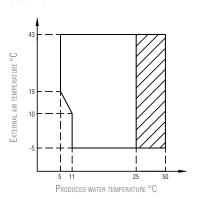
IDOLA S 3.2 HY H PERFORMANCE		04	06	08	10	
Max/min thermal output heating (Hs)	kW	28.5 / 2.9				
Max/min thermal output in heating (80/60°C)	kW	27.9 / 2.8				
Max/min thermal output in heating (50/30°C)	kW	30.2/3.1				
Pmax/Pmin efficiency (80-60°C) (Hi)	%	97.8 / 98				
Pmax/Pmin efficiency (50-30°C) (Hi)	%	106.1 / 107.5				
Efficiency 30% (Hi)	%	109.5				
Max/min working pressure in heating	bar	3/0.8				

OPTIONAL ACCESSORIES		DESCRIPTION
	046054X0	Galvanised normal template
	012051W0	Hydraulic kit with: gas tap, water inlet tap and connection pipes/fittings
	016009X0	Attachment cover kit for aesthetic cover of wall-mounted hydraulic connections
	013069XD	Connect CRP
	013055XD	Connect CRP Zones

OPTIONAL ACCESSORIES		DESCRIPTION			
	041083X0	Coupling for vertical coaxial pipe ø 100/60 mm for condensation boilers			
	041006X0	Coupling for vertical coaxial pipe ø 80/125 mm for condensation boilers			
8	041084X0	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensation boilers			
%	041082X0	Twin pipe 80/80 discharge kit for condensation boilers, including test points			
•	2CP000ZF	Rubber anti-vibration kit for outdoor unit			
0	2CP000NF	System flow temperature probe or for hybrid solar/ hybrid system integration			

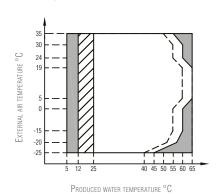
Operational limits

COOL MODE



Operating range with heat pump with possible limitation and protection

WARM MODE



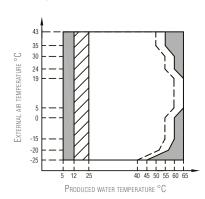
T HODOGED WATER TEMPERATURE O

Operating range with heat pump with possible limitation and protection

With IBH (internal backup heater) installed

Maximum inlet water temperature for heat pump operation

DHW MODE



Operating range with heat pump with possible limitation and protection

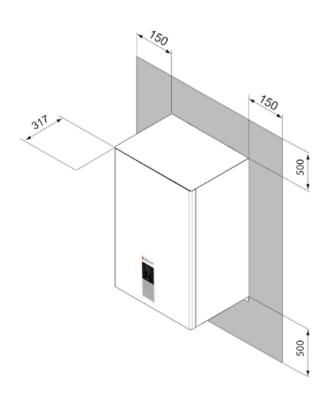
With IBH (internal backup heater) installed

Maximum inlet water temperature for heat pump operation

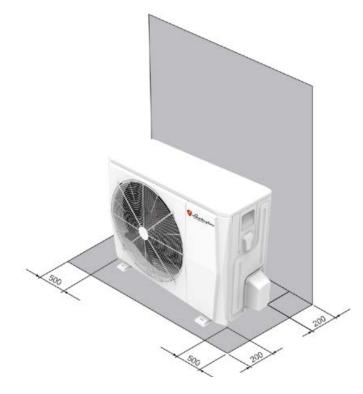
NOTE DHW MODE: the produced water temperature is the temperature of the water produced by the unit and not the DHW temperature available to the user, which is a function of this parameter and of the surface of the coil of the DHW cylinder, if any.

Minimum working spaces (in mm)

INDOOR UNIT



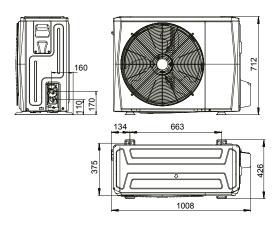
OUTDOOR UNIT



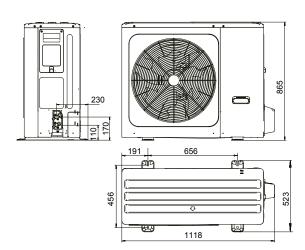


Overall dimensions of outdoor unit (in mm)

mod. 4 - 6

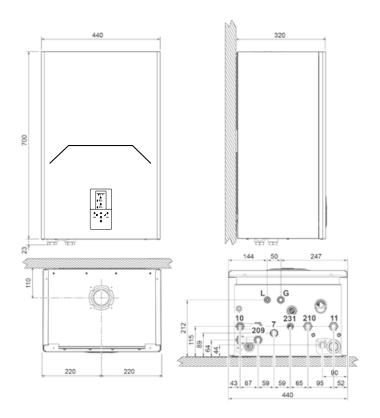


mod. 8 - 10



MODELS		4	6	8	10	
Packaging (WxHxD)	mm	1065x8	00x485	1190x970x560		
Packaging weight	kg	6	5	94		

Overall dimensions of indoor unit (in mm)



LEGEND

- **7** Gas inlet Ø 3/4"
- 10 System delivery Ø 3/4"
 11 System return Ø 3/4"
- **209** Water heater supply Ø 3/4"
- 210 Water heater return Ø 3/4"
- 231 Filling coupling Ø 1/2"
- A6 Condensate drain connection
- L Liquid line
- **G** Gas line