

HEAT PUMP AIR TO WATER SWIMMING POOL

AR SERIES COMMERCIAL AIR TO WATER

Efficiency

- COP > 4
- Patented tube in shell heat exchange
- R410a ecological refrigerant gas
- Electronic expansion valve

Ease of

- Friendly HMI with multi-function display
- Water pump embedded (AR-6PM)
- Ready for Modbus RS485

Safety

- Pressure and temperature sensors and switches
- Defrosting system thanks to a special valve
- Over-current and over-temperature protection

Comfort

- Hot water up to 60°C
- Fan blade with special «low noise» shape



Technical Data		AR-6PM	AR-10PM	AR-20PTP	AR-40PTP
Heating capacity	kW	6.8	11.6	23	48
Power Input	kW	1.65	2.49	4.84	9.97
COP		4	4.7 ÷ 5	4.7 ÷ 5	4.8 ÷ 5
Max. Power input	kW	2	3.68	6.9	14.3
Max. Running Current	A	10.5	17.1	11.5	24.2
Voltage/Phase		240V/ 1 ph		380V/ 3 ph	
Hot water volume	L/H	142	250	494	1031
Circulation pump	m³/h	1.2	2	4	8.3
Max. Temp. Operation	°C	60			
Refrigerant		R410A			
Noise	dB (A)	59	54	56	61
Water pressure drop	kpa	36	65	129	110
Water connection	Inch	1	1	1 ¼	1 ½



Flexible installation
**Customized solutions
for all needs**

AR SERIES SWIMMING POOL AIR TO WATER

Efficiency

- COP up to more than 5
- Scroll or Rotary compressor
- R410a, ecological refrigerant gas
- Dual coil titanium heat exchanger, corrosion-proof
- Electronic expansion valve

Ease of use

- Friendly HMI with multi-function display
- Ready for Modbus RS485

Safety & reliability

- Pressure and temperature sensors and switches
- Defrosting system thanks to a special valve
- Over-current and over-temperature protection

Comfort

- Hot water up to 45°C
- Cooling mode available up to 8 °C
- Fan blade with special «low noise» shape



Technical Data		AR-6SM	AR-8SM	AR-12SM	AR-20STP	AR-50STP
Heating capacity	kW	5.95	8.47	11.6	24	47
Power Input	kW	1.04	1.45	1.98	4.77	9.3
COP		4.4	5.84 ÷ 6	5.85 ÷ 6	5.03	5.05
Max. Power input	kW	1.34	2.01	2.65	5.72	11.2
Max. Running Current	A	5.86	8.93	11.8	11.2	19.3
Voltage/Phase		240V/ 1 ph			380V/ 3 ph	
Circulation pump	m³/h	2.3 or ¾ HP	3 or ¾ HP	4.5 or ¾ HP	9 or 1 HP	15 or 2 HP
Max. Hot Water Temp. Operation	°C	40				
Max. Cooling Temp. Operation	°C	8				
Refrigerant		R410				
Noise	dB (A)	50	52	54	58	61
Water connection	Inch	1 ½	1 ½	1 ½	1 ½	2



HEAT PUMP WATER HEATER DOMESTIC



NUOS PLUS Wi-Fi



Advanced performance

- / Lowest heating time on the market*, with superior COP.
- / R134A eco-friendly gas for water temperature of up to 62°C in heat pump mode.
- / Full compatibility with R513A refrigerant gas.
- / Different working modes: green, comfort, boost, fast, i-memory, HC-HP.

Everlasting quality

- / Titanium enamelled steel tank.
- / Active anode + magnesium anode.

Capacity	Volt/ Phase	Power (Watt)	Max Water Pressure	Hydraulic connection	Weight (kg)
200 L	220 V/1 ph	500 / 2750	6 Bar	3/4 inch	87
250 L	220 V/1 ph	500 / 2750	6 Bar	3/4 inch	92



NUOS PRIMO HC



- / Operating range in heat pump mode with air temperature from -5 to 42 °C
- / Environmentally friendly gas R134A makes it possible to achieve water temperatures up to °C in heat pump mode
- / Condenser is wrapped around the boiler (not immersed in water)
- / Titanium enamelled steel boiler
- / Immersed electric heating element
- / Active anode (protech) + magnesium anode
- / LCD Display
- / Modes: green, auto, boost and antilegionella modes, withdrawal time setting

Capacity	Volt/ Phase	Power (Watt)	Max Water Pressure	Hydraulic connection	Weight (kg)
200 L	220 V/1 ph	500 / 2750	6 Bar	3/4 inch	87
240 L	220 V/1 ph	500 / 2750	6 Bar	3/4 inch	92





Capacity	Volt/ Phase	Power (Watt)	Max Water Pressure	Hydraulic connection	Weight (kg)
80 L	240 V/1 ph	220 / 1450	8 Bar	1/2 inch	45
100 L	240 V/1 ph	220 / 1450	8 Bar	1/2 inch	49

NUOS PRIMO



ENERGY EFFICIENT



EASY TO USE



ANTI-LESIONELLA



EASY INSTALLATION



LED DISPLAY



ITALIAN STYLE

Enduring quality

- / Titanium enamelled steel tank.
- / Anti-corrosion magnesium anode.
- / Operating range in heat pump mode with air temperatures from 10 a 40°C.
- / Strictly tested in every single detail during each phase of the production line.

Renewable & energy efficiency

- / R134A eco-friendly gas for water temperature of up to 55°C in heat pump mode

Italian style

- / Modern shapes and sleek finishes designed by the Italian Umberto Plaermo designer



Capacity	Volt/ Phase	Power (Watt)	Max Water Pressure	Hydraulic connection	Weight (kg)
80 L	240 V/1 ph	200 / 1420	8 Bar	1/2 inch	37
100 L	240 V/1 ph	200 / 1420	8 Bar	1/2 inch	44

LYDOS HYBRID Wi-Fi



ENERGY EFFICIENT



i-MEMORY



ANTI-LESIONELLA



EASY INSTALLATION



MADE IN ITALY



TITANIUM PLUS



DISPLAY ECO

- / Savings of 50% compared to a class B water heater
- / i-Memory, Program, Green and Boost Modes
- / Active + magnesium anode
- / on Heating elements enamelled with Incoloy, a noise-reducing and anti corrosion nickel alloy
- / Replacement of old water heaters
- / Easy to install
- / Concealed hydraulic connections
- / Accessory condensate collection tray available

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** Estimated saving up to 25% on daily basis, compared to Ariston standard mechanical product.

