

 **ARISTON**
The home of sustainable comfort



The future of
**sustainable
comfort** is here

NuosTM
Side-Connect
Hybrid Heat Pump
Water Heaters

Nuos™ Side-Connect Heat Pump Water Heaters

PREMIUM EFFICIENCY / PERFORMANCE

- Up to 4.01 UEF
- Up to 87 gallons FHR
- Quiet operation with a sound rating of 49.1 dBA

DEMAND RESPONSE & TOU READY

- EcoPort Demand Response certified (CTA- 2045/OpenADR)
- NEEA and JA13 compliant

BUILT IN LEAK DETECTION

- Integrated leak sensor and optional shut-off valve
- App notifications

SMART CONNECTIVITY

- Ariston NET mobile app
- Integrated Wi-Fi
- Remote control / scheduling, energy reports and diagnosis

TOTAL COMFORT AND FULL CONTROL

- i-Memory habit-learning proprietary algorithm
- Five working modes
- Advanced time scheduling

PEACE OF MIND

- 10-year limited warranty on tank and parts
- Dual anode: powered and magnesium anodes for never ending protection



Features

• i-MEMORY HABIT LEARNING PROPRIETARY ALGORITHM

Ariston's **proprietary i-Memory software** learns from your habits, efficiently managing hybrid technology by learning your hot water usage over the prior four weeks. It adjusts to provide hot water exactly when you need it, ensuring ultimate comfort and energy savings.

- **INTEGRATED WI-FI and ARISTON NET APP** connect to a local network to remotely monitor and control your water heater through our free mobile app.
- **5 UNIQUE OPERATING MODES** to suit all water heating demands. Comfort (default factory mode), Green, Fast, Electric, and Vacation modes.
- **BOOST FUNCTION** allows for a single heat up cycle using the heat pump and elements to decrease recovery time.

- **BUILT IN LEAK DETECTION** with app notifications and optional shut off valve at the inlet to provide peace of mind.
- **ECOPORT CERTIFIED** Demand Response ready (CTA-2045/OpenADR).
- **USER-FRIENDLY LCD DISPLAY** screen that allows for easy view of current operational status, parameter changing, and diagnostics.
- **DUAL BACKUP INCOLOY HEATING ELEMENTS**
- **FULL FLOW BRASS DRAIN VALVE** allows easy and quick drainage.
- **TEMPERATURE AND PRESSURE RELIEF VALVE** factory provided and installed.
- **DUAL ANODE PERFORMANCE:** powered anode maintains itself and allows longer tank life, even after traditional anode is depleted.

Comfort for all usage patterns.



COMFORT MODE

(Default/Out-of-Box Setting)

Balanced Efficiency and Comfort

In Comfort mode, the water heater reaches set temperature with the rational use of the heat pump and, only if necessary, of the heating element. The priority is given to comfort. DOE Performance testing and published UEF/FHR were tested in Comfort mode.



GREEN MODE

Priority – Energy/Money Savings

In Green mode, the water heater will operate with only the heat pump for each cycle. The heating element will only turn on for back-up or safety functions.



i-MEMORY MODE

Proprietary Habit-Learning Algorithm

In i-Memory mode, a proprietary algorithm is used to reduce energy consumption and maximize comfort by monitoring the hot water needs of the user to optimize the use of the heat pump/heating element.



FAST MODE

Priority – Recovery Time

In Fast mode, the water heater will use both the heat pump and heating elements to reach the tank temperature to reduce recovery times. The efficiency and energy usage will go up while in this mode compared to Comfort, Green, and i-Memory modes.

Recommended only to be used for periods when larger than normal water usage will occur (e.g. guests staying for a long weekend).

*This mode will remain in operation for 72 hours after activation and then the water heater will return to Comfort mode.



ELECTRIC MODE

Just like a Traditional Electric

In Electric mode, the water heater will operate as a standard non-simultaneous electric water heater (no heat pump operation).

*This mode will remain in operation for 72 hours after activation and then the water heater will return to Comfort mode.



BOOST FUNCTION

For Faster One-Time Heat-Ups

When activated, the Boost function will use both the heat pump and heating elements to reach the tank temperature to reduce the recovery time. Once the set point is reached, Boost will deactivate and return to the previous working mode.

Recommended only to be used for periods when larger than normal water usage will occur (e.g. guests staying for a long weekend).

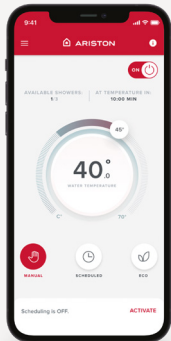
The Ariston NET app. Home gets smarter, life gets simpler.

Manage the features and benefits of your water heater anywhere, anytime.



PROMPT FEEDBACK

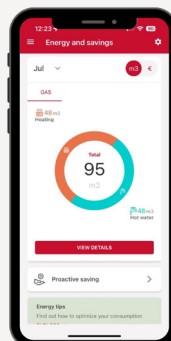
Receive real-time push notifications in case of a system failure, so you can immediately solve the issue. Ariston NET also provides detailed information, including error number and description, to facilitate technical assistance and interventions.



EASY CONTROL

With just a tap in the app, you can switch your Hybrid Heat Pump water heater on and off, set a schedule, and change operation modes remotely from your smartphone.

You can also check the amount of water available anytime and monitor its temperature level.



ENERGY AWARENESS

Your real-time energy consultant, the Ariston NET app allows you to monitor your energy consumption with reports, from daily to annual.



TECHNICAL SPECIFICATIONS

GENERAL SPECS

UEF	Up to 4.01 UEF
First Hour Rating (FHR)	Up to 87 gallons
Voltage & Frequency Phase	208/240 VAC 60Hz single phase
Compressor Avg Power	500 W
Back Up Heating Element	4,500 W (x2)
Sound Level	49.1 dBA
Dry-Fire Protection	Built in
Operating Air Temp Range	36°F to 120°F
Operating Water Pressure	150psi Max, recommended 30-80psi
Refrigerant	R134a
Certification	NEEA Tier-4 and JA-13

ELECTRONICS

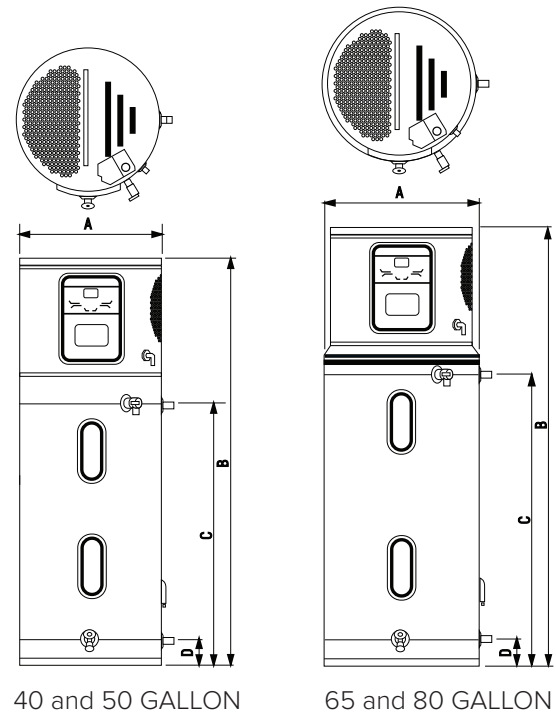
Display Type	LCD with Capacitive Touch
Demand Response	EcoPort Certified (JA-13 Compliant)
Working Modes	Green, I-Memory, Comfort (out of box), Fast, Electric, Vacation, Boost
Wi-Fi	Integrated – Ariston NET app available in store for Apple/Android

INSTALLATION

Ducting	Intake/Exhaust Duct Kits Available
Required Circuit Breaker	30 A
Leak Detection	Built In
Inlet Shut-Off Valve	Optional Accessory

DURABILITY

Anode	Powered and Magnesium
Warranty	10-Year Tank and Parts



ACCESSORIES LIST

MODEL NUMBER	DESCRIPTION	INCLUDED OR ACCESSORY?
65170399	Leak Detection Sensor	Included
NA	Tie-down straps	Included
3629160	Automatic Shut-off Valve	Accessory
3629161	Inlet Duct Adapter	Accessory
3629162	Outlet Duct Adapter	Accessory
3255016	Vibration Isolation Kit	Accessory
3255017	8" UL Certified Termination Kit	Accessory

SIZING GUIDE

MODEL VOLUME	TUB FILL (GAL)	MAXIMUM SHOWER LENGTH* (MINUTES)	CONSECUTIVE 8 MIN SHOWERS*
40	72	23	2.9
50	87	28	3.5
65	120	38	4.8
80	141	45	5.6

*At 2.1 GPM

PRODUCT SPECIFICATIONS

DIMENSIONS IN INCHES

MODEL NUMBER	NOMINAL VOLUME (GAL)	DOE RATED CAPACITY (GAL)	FIRST HOUR RATING (GAL)	UNIFORM ENERGY FACTOR (UEF)	GPH RECOVERY AT 90° RISE (GAL)	EST. YEARLY ENERGY COST (\$)	ELEMENT WATTAGE (WATT)	SOUND LEVEL (dBA)	JACKET DIAM (IN) A	FLOOR TO				CONDENSATE HOSE SIZE (IN)	REC DRAIN PAN DIAMETER (IN)	APPROX. SHIP WEIGHT (LBS)
										TOP OF HEATER (IN) B	SIDE T&P (IN) C	SIDE HOT (IN) C	SIDE COLD (IN) D			
ARIHPWH-40	40	37	66	3.58	27	\$127	4,500	49.1	22 ½	56 ½	33 ¾	33 ¾	4 ¼	4 ¼	¾	190
ARIHPWH-50	50	45	68	3.75	27	\$121	4,500	49.1	22 ½	64 ¼	41 ½	41 ¼	4 ¼	4 ¼	¾	238
ARIHPWH-65	65	62	78	3.85	27	\$180	4,500	49.1	24 ½	69 ¼	41 ¾	41 ¾	4 ¼	4 ¼	¾	271
ARIHPWH-80	80	73	87	4.01	27	\$173	4,500	49.1	24 ½	78 ¾	54 ¾	54 ¾	4 ¼	4 ¼	¾	337

- All models comply with NAECA requirements are UL and CEC listed and meet or exceed ASHRAE 90.1 b.
- Heaters are wired for non-simultaneous operation, single phase 240 Volts with dual 4,500 Watt elements. When 208 Volts is supplied to the heater, the elements will still heat, but at a lesser value of 3,380 Watts.
- All models are certified at 300psi test pressure and 150psi working pressure.
- Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



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ARILIT-30 08.21.25