WEIL-McLAIN®
Solutions that Matter™

Air-to-Water Heat Pump

Eco™ Hybrid

Dual Fuel Hydronic System

Integrating an air-to-water heat pump within a boiler hydronic heating system

CLIMATE CONSCIOUS

Easier. Better. Smarter.

Weil-McLain understands the importance of simplicity and energy-efficiency for both homeowners and contractors. The ECO™ HP is designed to streamline installation, operation and serviceability, making it an ideal choice for heating needs.

The Most Efficient Solution for High-Temp Hydronic Heating Systems.

Climate Conscious Energy Efficiency
Our hybrid solution is up to five times more efficient than traditional boilers, providing significant energy savings and reducing environmental impact. Our heat pump uses state of the art, eco-friendly R32 refrigerant.

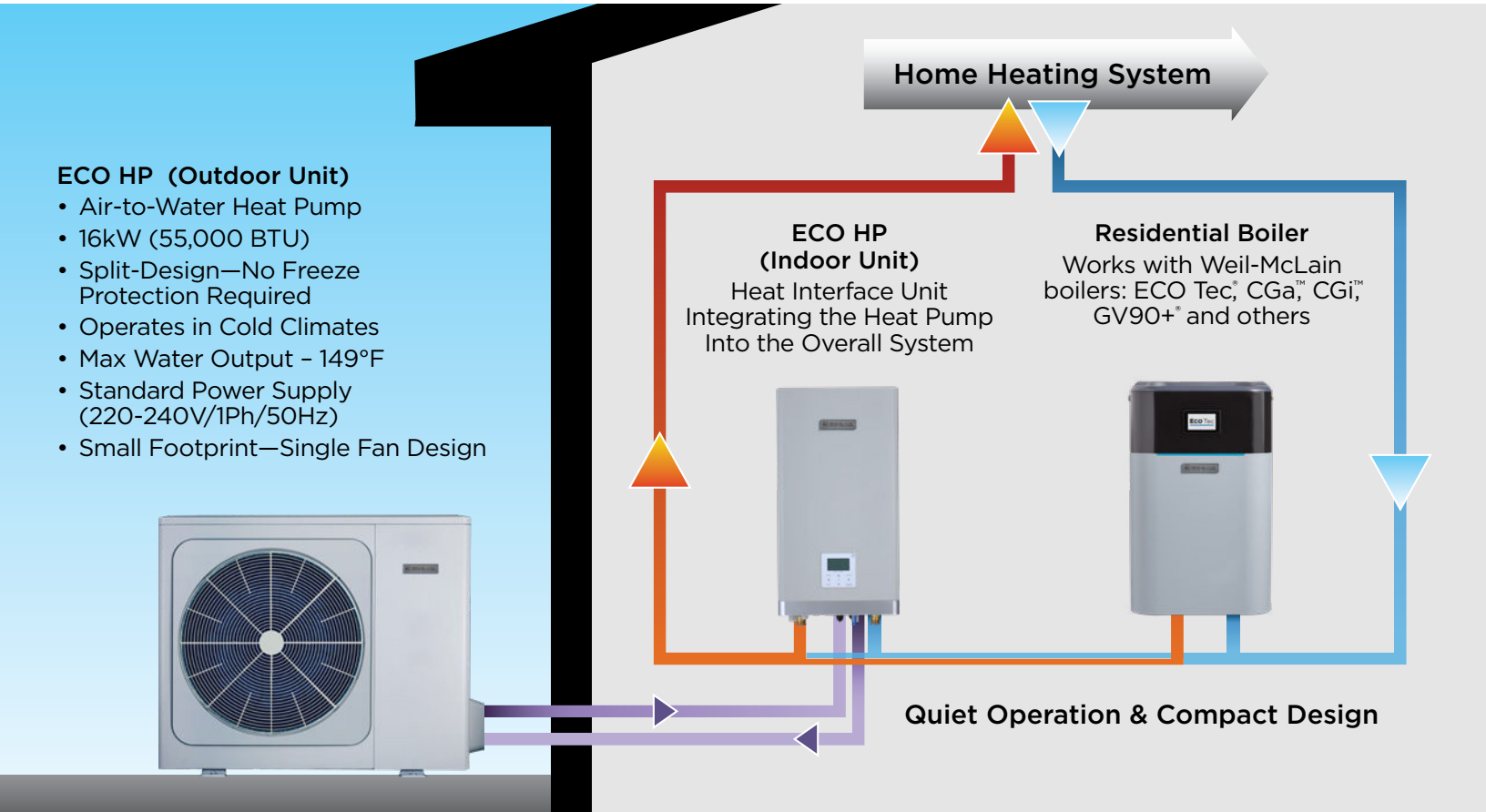
Consistent Comfort with Dual Fuel
Our ECO HP heat pump with boiler backup ensures homes remain warm even in the coldest climates. The heat pump operates during milder temperatures to maximize efficiency and carbon reduction, while seamlessly switching to the boiler as the always-ready backup heating source on the coldest days.

Dependable Heating Solution
Enjoy peace of mind with our reliable heating system that does not require freeze protection with our innovative split design, ensuring hassle-free maintenance and long-lasting performance. Operating as dual fuel and positioning the boiler as a backup, extends both appliance life expectancy.

Budget-Friendly Rebate Options
Offset equipment costs by taking advantage of federal, state and local rebate incentive programs.*

*Varies by location

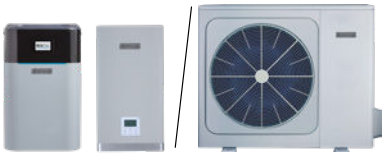
ECO HP (Outdoor Unit)
- Air-to-Water Heat Pump
- 16kW (55,000 BTU)
- Split-Design—No Freeze Protection Required
- Operates in Cold Climates
- Max Water Output – 149°F
- Standard Power Supply (220-240V/1Ph/50Hz)
- Small Footprint—Single Fan Design



Flexible Installation Options

All-at-Once Installation
If your current boiler fails at the end of cold season, you're in a location with mild winters, or setting up a new construction, the full Hybrid System can be installed together.

While an all-at-once installation will be a greater up-front cost, you will save on total labor costs for the complete installation.



Phased Installation
Most boilers are replaced when they stop working, often in the cold of winter. It is not always practical to install the outdoor heat pump during the winter.

The Hybrid System is designed to be installed in two phases. A heat-pump-ready boiler and the indoor heat pump unit installed now—restoring the heat, and followed by adding the outdoor heat pump later during the warmer months.

Retrofit Upgrade
If you already have a heat-pump-ready boiler, your system may be able to be retrofitted into the Hybrid System.

Contact a Weil-McLain authorized contractor to assess you current system and outline a plan for installing the indoor and outdoor heat pump units.

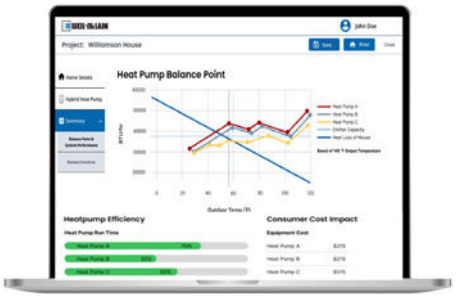
Key Advantages of the ECO™ HP Indoor Unit

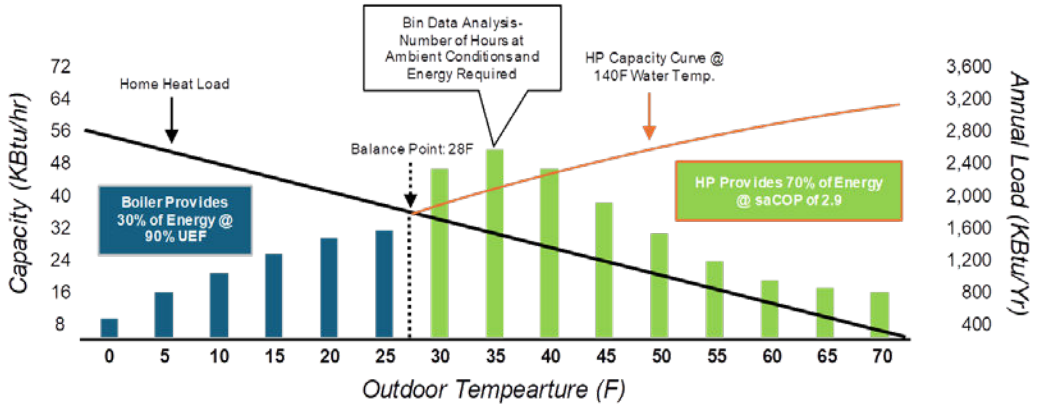
The ECO Indoor Unit features a refrigerant-to-water heat exchanger, circulator, and controls. Through an Easy-Up manifold, the unit seamlessly integrates the heat pump into the existing heating system significantly reducing installation time, labor, and the need for additional parts. For routine maintenance, the manifold features shut-off valves that allow for quick isolation of the boiler and circulator for the system.

ECO Calc Application Sizing Tool

To ensure the comfort, efficiency, and durability benefits of the Hybrid System—the application must be properly sized. Weil-McLain has created the ECO Calc Application Sizing Tool, an industry-first tool to guarantee the correct sizing incorporating:

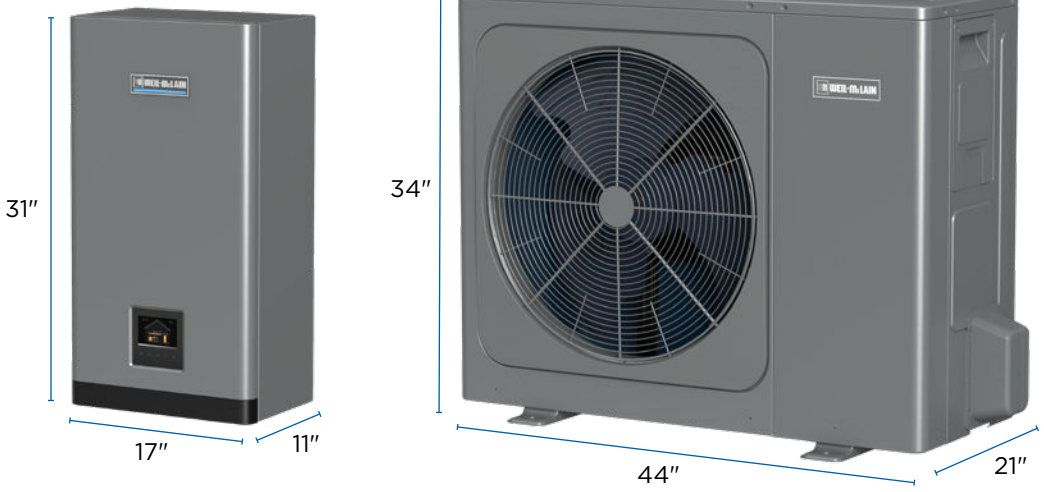
- Manual J (Heat Load)
- Heat Pump Capacity
- Heat Emitter Capacity
- DHW Consideration
- Localized Weather "Bin" Data
- Localized Utility Rates
- Rebates & Tax Credits





Hybrid Dual Fuel Operating View

Dimensions



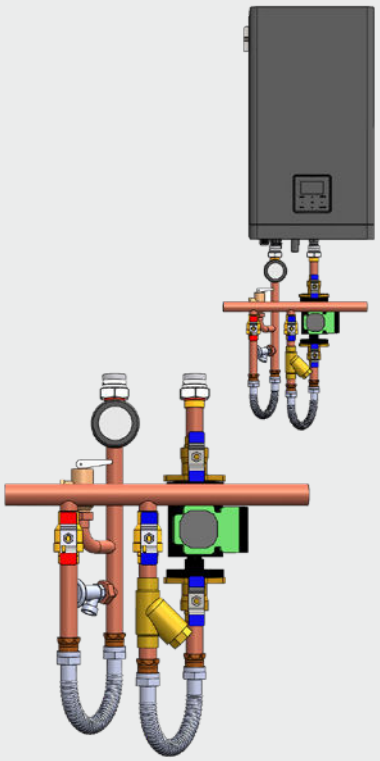
ECO HP—Split Easy Up Manifold

Items included on Easy Up Manifold:

- Dielectric unions
- Isolation valves
- Y-strainer
- Stainless steel flex lines
- Plugged port for drain valve

Items included in installation Accessory kit:

- Taco 0018e circulator
- Pressure relief valve
- Pressure & temperature gauge



Specifications

Spec	Model	Description	Measure	Value (range)
Heating*	41	Capacity	MBH	19.04–41.29
		Efficiency	COP	4.96–5.37
		Power Input	kW	1.04–2.44
		Current Input	Amps	4.33–25
		Delivery Temp	Deg °F	77–149
		Outdoor Temp	Deg °F	-13–109.4
	48	Capacity	MBH	20.2–49.48
		Efficiency	COP	4.60–5.29
		Power Input	kW	1.12–3.15
		Current Input	Amps	4.67–26
		Delivery Temp	Deg°F	77–149
		Outdoor Temp	Deg°F	-13–109.4
	55	Capacity	MBH	21.94–54.25
		Efficiency	COP	4.50–5.06
		Power Input	kW	1.27–3.53
		Current Input	Amps	5.29–27
		Delivery Temp	Deg °F	77–149
		Outdoor Temp	Deg °F	-13–109.4

Spec	Description	Measure	Value (range)
Refrigerant	Type	R-32	
	Charge	LBS	4.04
	Pressure Low Side	PSIG	377.1
	Pressure High Side	PSIG	623.6
Fan	Type	Brushless DC	
	Quantity	1	
	Input	W	170
	Speed	RPM	200-730
Compressor	Type	Rotary	
	Quantity	1	
	Speed	RPS	24 - 92
Hydronic	Flow	GPM	12.1
	Max Temp	Deg°F	149
	Piping Conn.	Inch	1
	Pressure Drop @ 12.1 gpm	PSI	3.9

Spec		Description	Measure	Value (range)
Electrical	ODU	Power	V/Ph/Hz	208–230/1/60
		Fan Motor	A	1.3
		Compressor	A	26
		MCA 41/48/55	A	25/26/27
		MOPD	A	30
		SCCR	kA	5
	IDU	Power	V/Ph/Hz	110-120/1/60
		MCA	A	1.5
		MOPD	A	15
Weight	IDU	IDU Net	LBS	69
		IDU Shipping	LBS	78
	ODU	ODU Net	LBS	212
		ODU Shipping	LBS	255

*Outdoor temperature at 44.8°F, water outlet temperature 95°F

Product Warranty

Outdoor Unit (ODU)
& Indoor Unit (IDU)

- 5 years on ODU Compressor
- 2 years on Parts without registration
  *Or **5 years on Parts with registration***

Non-Transferable, Non-Prorated

Our Brand Promise

For over 140 years, Weil-McLain has been a trusted leader in innovative heating solutions. Our commitment to reliability and a consultative approach is unwavering. With Weil-McLain, customers receive more than just a product; they receive a premium, experienced, and trusted brand dedicated to meeting their heating needs.

Experience the future of heating with Weil-McLain's Hybrid Dual Fuel Solution. Contact us today to learn more about how we can elevate home comfort systems while reducing environmental impact.