

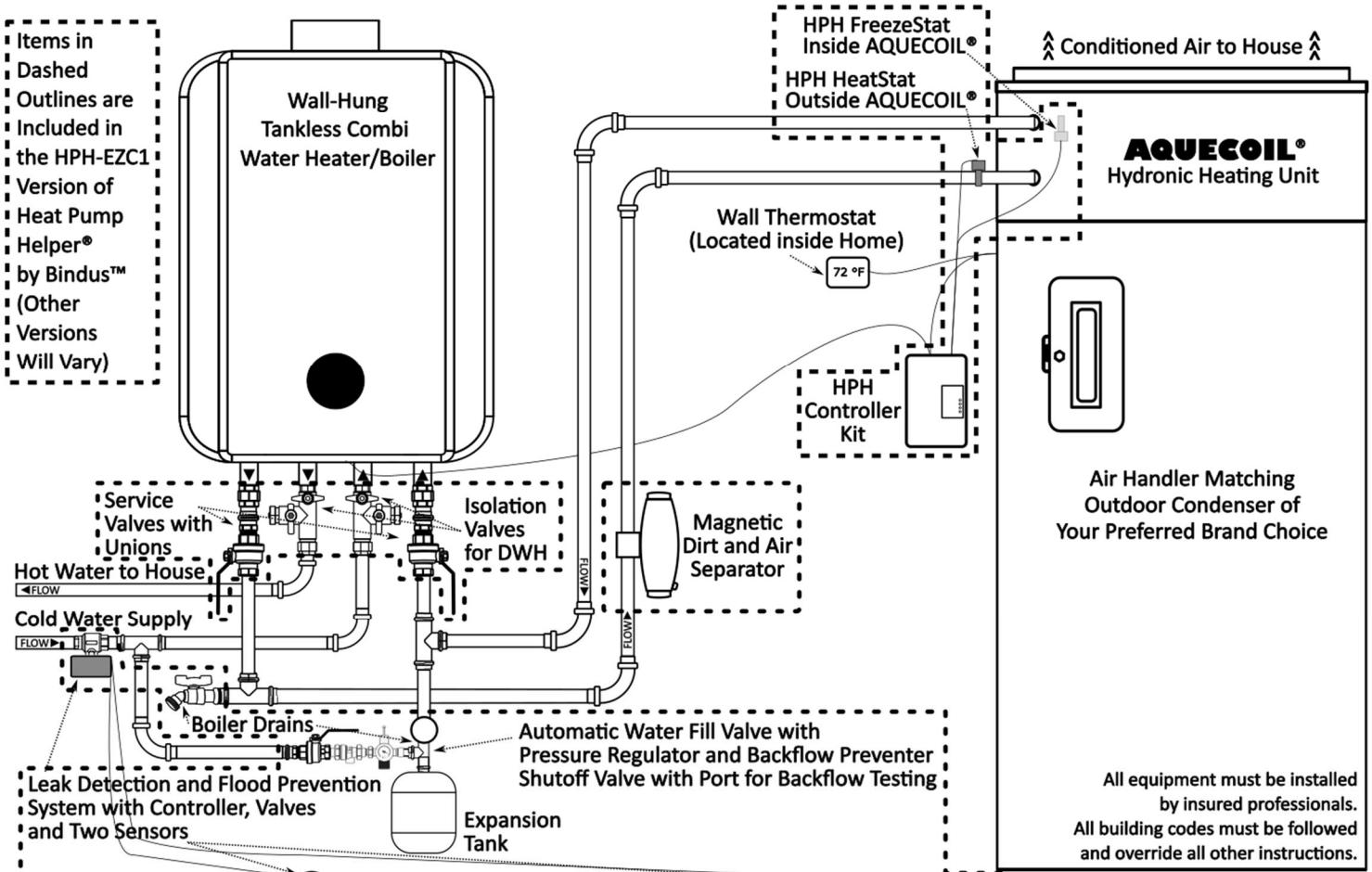


## You Don't Have to Shiver. Get Warm with the Heat Pump Helper® Dual-Fuel Solution.

Don't let a struggling heat pump leave you cold. When temperatures drop, standard heat pumps often can't keep up, forcing costly electric heat strips to kick in—leaving your home drafty and your bills soaring, because of this struggle.

In contrast, you could be warm and relaxed thanks to the Heat Pump Helper® dual-fuel system. This smart solution works with your existing heat pump and AQUECOIL® Hydro-Heat Units and has been warming homes for 30+ years, guaranteeing consistent, comfortable warmth all winter long.

## Heat Pump Helper® (HPH-EZC1) by Bindus™ Overview of Typical 1-Zone Combi Installation

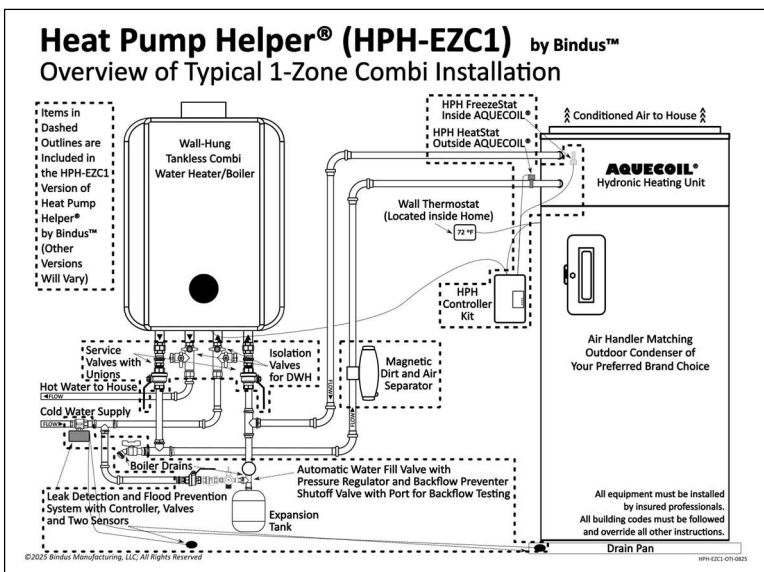




## SPECIFICATION SHEET

### DESCRIPTION

The Heat Pump Helper® Installation Package is a complete, engineered system for setting up a **Single-Zone Dual-Fuel Heat Pump**. It contains all the necessary plumbing and control components to connect your preferred brand of boiler or combi to an AQUECOIL® Hydronic Heating Unit. This system delivers warm, consistent heat and can serve as your primary heat source or as an auxiliary heat source, eliminating the need for electric heat strips or a gas furnace. Not only does it provide heat at a lower cost than heat strips, but it also delivers higher quality, warmer heat without the dry air or burnt-dust smell.



### FEATURED HIGHLIGHTS

- ✓ Works with any hot water source capable of delivering 140°F+ fluid flow to a dedicated space heating loop
- ✓ Works with the boiler/combi internal pump or external heating loop pump
- ✓ Includes Hydronic Air Handler Controller Kit with proprietary FreezeStat and air handler blower time delay
- ✓ Includes Tankless Isolation Valve Kit
- ✓ Includes Flood Protection Kit
- ✓ Includes all the required and hard to source hydronic component parts

### APPLICATION

The Heat Pump Helper® EZC1 Installation Kit converts a conventional single-zone heat pump system into a **Dual Fuel Hydronic Hybrid Heating System**. It connects a boiler or combi boiler to an AQUECOIL® Hydronic Heating Unit, which is installed with the heat pump air handler.

The system thermostat controls whether the heat pump (primary heat source) or the hydronic unit (auxiliary heat source) is used. The system will switch to the auxiliary hydronic heat when either the heat pump can no longer maintain the desired temperature or the outdoor temperature drops below a point where it's more efficient to use the gas-fired boiler.

When the system switches to auxiliary heat, the boiler circulates heated fluid to the hydronic heating unit. This fluid heats the air from the heat pump air handler until the setpoint temperature is reached. Each hydronic unit is controlled by either the boiler circulator or an external circulator, if needed the AQUECOIL® can be ordered with a factory-installed circulator.

The Heat Pump Helper® EZC1 also includes a separate controller for additional functions like **freeze protection, pump exercising, and air handler blower delay.**



## SPECIFICATIONS AND PERFORMANCE INFORMATION

To deliver rated heat output from the AQUECOIL® Hydronic Heating Unit, the boiler or combi used as the auxiliary heat source must run at a minimum of 140°F. Depending on the capacity of the Heating System and the associated Heat Pump Air Handler, the required heating loop flow will range from 4 to 9 gallons per minute. Various combinations of flow rate and boiler loop temperature ranging from 140°F to 180°F can be used to achieve the required Heat output.

### Heat Pump Helper® Installation Kits

Choose one of four Heat Pump Helper® Installation Kits to pair with your gas-fired water heater. Each kit is tailored to a specific type of system, ensuring a smooth and efficient installation.

#### Included with HPH-EZC1 – for a Single Zone Combi or Boiler

##### Installation:

- ✓ **HPH-Controller** includes Custom FreezeStat & Blower-Delay
- ✓ Automatic Boiler Fill Valve with Pressure Gauge & Field-Testable Back Flow Preventor
- ✓ Fill Valve Pressure Gauge & Leak Break Adapter
- ✓ Insulated Magnetic Dirt and Air Separator with Eco/Max Mode Selector
- ✓ Flood Prevention Device (with 2 Sensors)
- ✓ Boiler Service Valve Assemblies
- ✓ Boiler Drain Valve Assemblies
- ✓ Expansion Tank
- ✓ **Fully Illustrated Step-by-Step**

#### Required (Not Included):

- ✓ **AQUECOIL® Hydronic Heating Unit**
- ✓ Gas Fired Combi or Boiler
- ✓ Tools of the Trade
- ✓ Copper pipe or equivalent boiler PEX
- ✓ ¾" & 1" Fittings for Selected Pipe Type
- ✓ Thermostat Wire & Connectors

#### Recommended (Not Included):

- ✓ Smart Thermostat
- ✓ Correctly Sized Drain Pan

### Installation Kit Model Choices:

**HPH-EZC1** SINGLE ZONE BOILER OR COMBI KIT

**HPH-EZC2+** MULTI ZONE BOILER OR COMBI KIT

**HPH-EZTANK** TANK STYLE INSTALLATION KIT

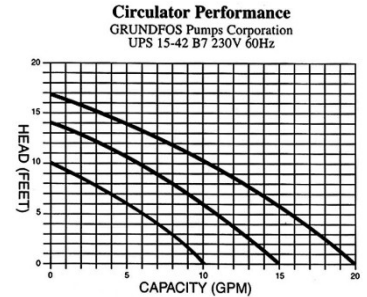
**HPH-EZTANKLESS** TANKLESS INSTALLATION KIT (for 3.5 Ton or less)



**AQUECOIL® Hydro-Heat Unit models, available with or without optional internal circulator pump, offering a versatile solution for heating needs by integrating with existing air handlers.**

### General Capabilities:

AQUECOIL® Hydro-Heat Unit models are designed to accommodate a wide array of air handler brands & sizes to provide a broad spectrum of heating capacities. Return-Side configuration is also available.



### Ranges Across Categories:

- **Fits Air Handler Size (width x depth):** The HHU units are compatible with air handlers **Models to Fit:** 14" x 21" up to 27-1/8" x 20-1/2".
- **Maximum SCFM (Standard Cubic Feet per Minute):** The maximum airflow capacities **Models to Accomodate:** 1200 SCFM to 2000 SCFM.
- **BTUH Range (at 68°F - Entering Air Temperature):** Heating output varies from 21,250 BTUH to 105,000 BTUH.
- **Unit Height is only 7" to 8" Tall**
- **Cabinet Colors:** A variety of cabinet colors are available, to match your customer's heat pump, including: Taupe, Dark Gray, Light Gray, Slate Gray, Champagne, Neutral Gray, and Metallic Silver.



### What should I consider before buying an AQUECOIL® Hydro-Heat Unit?

- Always verify specific performance requirements for your application on individual **specification sheets at [www.AQUECOIL.com](http://www.AQUECOIL.com).**

Note that the listed information is general for all models of AHU brands. Use the **AQUECOIL® "Size Selector"** to find the right unit for your project. For more help, contact your **local AQUECOIL® Representative.**

"Scan the QR code for the **AQUECOIL® 'Size-Selector'** to find the Hydro-Heat Unit compatible with your air handler brand."

