



HUG HYDRONICS™



This document addresses the frequently asked questions about the HUG Hydronic’s system.



1	How large of an area can a HUG Hydronics unit heat?
	Ans: The HUG full system with splitters can deliver heat for up to 5,000 square feet under normal conditions with standard insulation construction. The full system has 9 pumps for floor loops with one heat source pump. Each floor loop pump can heat 300 sq. feet & with HUG pump splitters it can increase to 600 sq. feet. The mid-size package with 5 loop pumps can manage from 1,500 sq. feet to 3,000 sq. feet with splitters using one heat source pump. The 10 pump unit can heat from 2,700 sq. feet, but with splitters can warm up to 5,400 sq feet.
2	How much space does a HUG Hydronics unit need to operate?
	Ans: The tank is 22 inches tall, 33 inches wide, and 17 inches deep. Please allow 24” to 30” in front of the tank for service access & about 1” inch on each side to install. The tank typically sits on the floor in front of the pex pipes & requires about 1 to 2 inches from the wall depending on the PEX location. For planning a new installation, the recommended floor space required is 36” wide (91cm) x 18” (56cm) deep plus 24” (63cm) in front of the tank to service. About 12” is needed above the tank for cover removal. Typically a tankless water heater is mounted on the wall above the tank. Refer to heater specifications for



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	needed space.
3	Is this unit complex to install and maintain? How much time is required to install the HUG Hydronics unit?
	Ans: HUG Hydronics is by far the easiest hydronics unit to install and does not require professional tools. It takes about an hour to install a HUG hydronics tank after the water heater & PEX are installed.
4	What tools are needed to install? Do I need any special tools to install a HUG Hydronics unit?
	Ans: The only tools required are a small screwdriver & pliers assuming the water heater is installed and the thermostat wire is run. The HUG Hydronics unit only needs a screwdriver to connect the thermostat wire. All the plumbing requires no tools; you just push silicon hoses onto the pex floor pipes.
5	What heat sources can I attach to my HUG Hydronics Unit?
	Ans: Any source of hot water that's rated for home heating can be hooked up. Heaters dedicated to the hydronic system are easiest to install. The easiest is an electric tankless water heater by State / AO Smith. Second easiest is a gas tankless water heater. HUG is constantly testing water heaters to find the best value, ease of use and ease of repair. So far our favorite is AO Smith & State. The HUG Hydronics installation manual and application notes show how to hook up to several other kinds of heat sources.
6	What hydronic systems or installations are not recommended?
	Ans: The HUG system is an open loop system. The system is not recommended for pressurized baseboard radiator systems. The tank should not be installed 2 floors or more below the floor to heat.
7	Can I make my own repairs or is the HUG Hydronics system best repaired through a professional?
	Ans: HUG's main reason to exist is to help make people be more resilient. Being able to fix things in your home helps toward that goal. The HUG Hydronic system was designed with that foremost in mind. Most parts in the hydronics system can be changed with no tools or with basic tools in just a few cases.
8	What fluid can I place in my HUG Hydronic unit? What do you recommend?
	Ans: HUG hydronics can use any hydronic fluid or water. The best water is purified by reverse osmosis. Second best is softened water. Tap water works fine, but it might have minerals and bacteria in it that are undesirable to humans and heaters. If you add propylene glycol antifreeze, we suggest about 33% (one part antifreeze to 2 parts water), but 50% can be used.
9	What size PEX do you recommend for a HUG Hydronic unit?
	Ans: The recommended PEX is 1/2 inch. Silicon Hoses are provided with the unit for a standard installation. Standard plumbing adaptors are available for different size pipes.

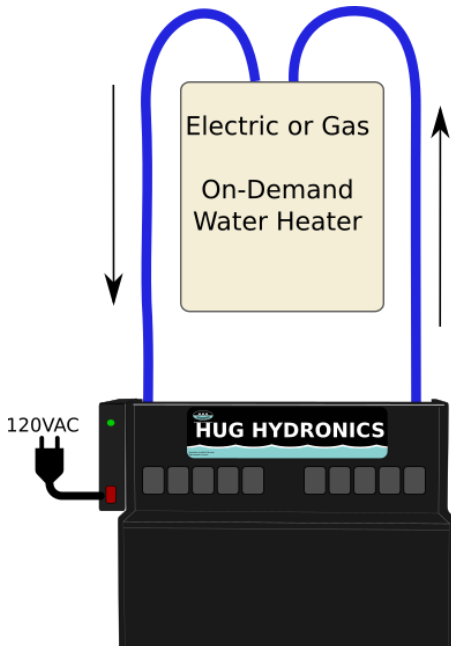


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10	How do I order a HUG Hydronics system?
	Ans: Please visit www.HUGhydronics.com to order a system. Enter a Promo code if provided by the store. Call 218-587-5001 for sales inquiries or email sales@hugllc.com
11	Who do I contact if I need installation or maintenance help?
	Ans: Visit our website at HUGhydronics.com or call 218-587-5001 for inquiries.

INSTALLATION ILLUSTRATIONS



The Ultimate in Simple Hydronics

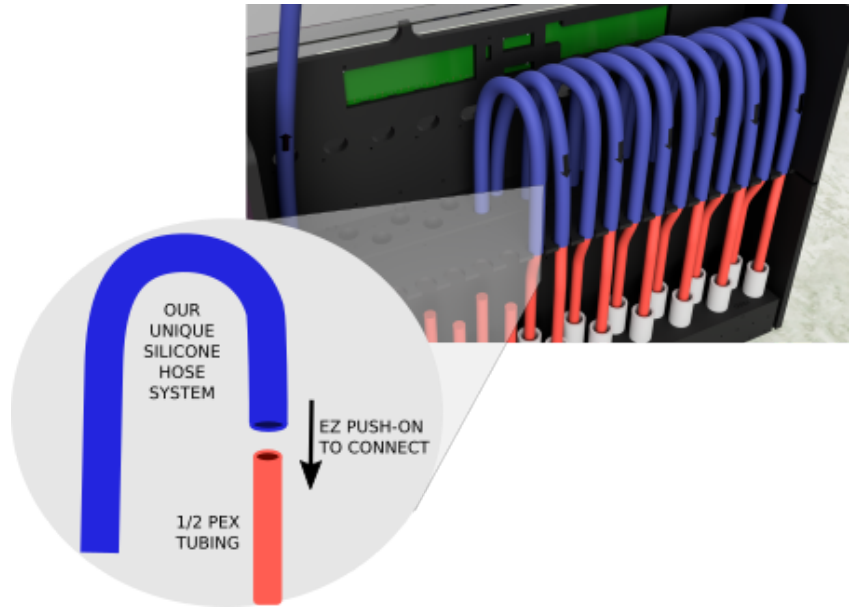
- Installation using basic tools
- Installs with up to 3 heat sources
- Great for dual fuel applications
- Tankless on-demand water heaters
- Wood-fired boilers
- Any other hot water source

Reverse View Showing “EZ Connections”

- High quality silicone hoses
- Tank Typical installs in 1 hour after the heater is installed



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Visit <https://www.hugllc.com/tankhydronics> to learn more.

SPECIFICATIONS

Overall Dimensions	16.75 " deep, 22" tall, 33" wide (with power supply)
Power Supply Unit Input	120 VAC @ 6A max
Power Supply Output	12VDC @ 26 Amps
Tank Size	11 gallons
Tank Max Temperature Settings	5 steps; from 85 to 160 F (170F max)
Thermostat Zones	Up to 4; with a low priority setting Supports 24VAC thermostats
Max Number of Pumps	10
Max Number of Heat Source Loops	3
Max Number of Heat Load Loops	18 max with splitters & one heat source.
Power Supply Meantime between failure	140,000 hours



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Designed to Meet UL Standards for HVAC equipment	UL60335-2-40/CSA C22.2 60335-2-40, and UL 60335-1/CSA C22.2 60335-1 (Intertek Certified)
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Individual Pump Specs	
Power	12V, Variable speed, 4.5A max (0.6 A nominal)
Max Static Lift	6 meters
Max Flow Rate	1260 l/h (5.5 gpm)
Flow in Typical Hydronic Loop	300 ft. (½" ID tubing) Speed at MED 182 l/h (0.8 gpm)
Pump Life	30,000 hours

