 <p>EnerTech Global 2506 S. Elm Street Greenville, IL 62246 www.enertechusa.com</p>	TECHNICAL BULLETIN	Tech Bulletin #:	TB19.006
	Flow Center Pump / Internal WV Load Pump Replacement And UPM-XL Pump Venting	Publish Date:	11NOV2019
		Document #:	QMS-TSF-001
		Template Revision Date:	08JUL2019

Flow Center Pump / Internal WV Load Pump Replacement

In September 2019, EnerTech added the UPM-XL Pump to our flow center options. This pump also replaced the internal loop pump in the WV variable speed water-to-water units. Recently, it has been brought to our attention that there are some issues with connecting the WV harness to our Flow Centers that consist of the UPM-XL Pump. Beginning with unit serial number M19090400 all WV units are shipped with a 15 ft. long PWM wire harness that has a male and female Molex Connector that connects the Breakout Board to the Pump (Flow Center). The first shipments of our new WV Flow Centers (single and two pump variable speed flow centers, pressurized or non-pressurized) shipped with come with a raw/stripped 3 wire connection (**see Figure 1 below**) that does now allow the harness to connect to the pump. We are working with our vendor to add the Molex connector to the pump so that it matches the connector in the unit. In the meantime, there may be some modification needed. Below is temporary solution to resolve this issue. Note that this is not an issue with flow centers that include a controller, this is only an issue with WV units.

Field modification required if pump does not include the connector:

Cut the Male Molex Connector off from the 15 ft. PWM wire harness, strip the 3 wires and then hard-wire to the pump located on the Flow Center.

Figure 1



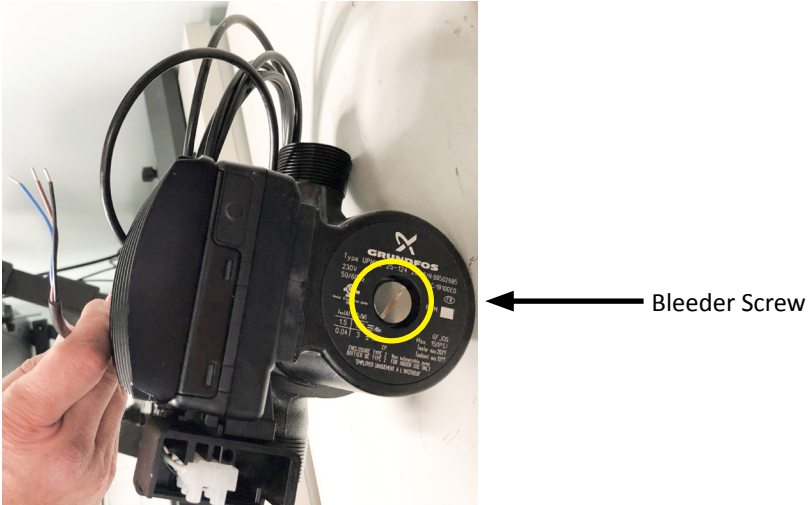
To assist with proper pump replacement, see the Variable Speed Pump Replacement Chart below.

Variable Speed Pump Replacement Chart

Pump Location	Original Pump	Replacement Pump	Part #
Flow Center (WV)	Magna GEO	Magna GEO	AGPA5
	UPM-XL	UPM-XL	AGPA11
Flow Center (other units)	Magna GEO	Magna GEO	AGPA5
	UPM-XL	UPM-XL	AGPA11
Internal Load Pump (WV)	Magna GEO	UPM-XL	04P015-01NN
	UPM-XL		

UPM-XL Pump Venting

When installing a new or replacement UPM-XL Pump, air must be vented by using the chrome bleeder screw located on the front of the motor. (see **Figure 4** below).



Once the system is full of water, the pump motor will need bled several times or until air is removed. If bleeding the internal WV load pump, the top of the unit must be removed to access the pump vent.

For additional information and specific application or installation related questions, contact Enertech Tech Support at 618.664.5860