

Simply the Best

Radiant Heating
Electric Micro-Boilers | Modular Panel System



Hydro Shark.

performance, plus compact professional design make HydroShark's modular panel system and electric boilers an easy install and a great value for homes, garages, or post frame structures.

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Hydro Shark.

Modular Panel System for Radiant Floor Heating

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Panel & Boiler Options by Zone

	System Panel		Boiler		Zoning Panel
1-Zone Electric	Pro Panel Single Zone				None needed
1-Zone Gas	Master Panel Single Zone	+	Gas		None needed
2-Zone	Pro Panel Pump			+	2-Zone Panel Pump
Electric	Pro Panel Actuator			+	Manifold with Actuators
2-Zone	Master Panel Pump		Gas	+	2-Zone Panel Pump
Gas	Master Panel Actuator	+			Manifold with Actuators
3-Zone	Pro Panel Pump			+	3-Zone Panel Pump
Electric	Pro Panel Actuator			т	Manifold with Actuators
3-Zone	Master Panel Pump		C = -	+	3-Zone Panel Pump
Gas	Master Panel Actuator	+	Gas		Manifold with Actuators
4-Zone	Pro Panel Pump				4-Zone Panel Pump
Electric	Pro Panel Actuator			+	Manifold with Actuators
4-Zone	Master Panel Pump	+	Gas		4-Zone Panel Pump
Gas	Master Panel Actuator	т	UdS	+	Manifold with Actuators

Emitter	Options	Embedded Concrete	Pour Over	Staple Up	Radiator	Baseboard
Electric	HydroShark 7 – 10 HydroShark 12 – 36	√ √	√ √			
Gas	HydroShark 115 HydroShark 120 HydroShark 199	√ √ √	√ √ √	√	✓	✓



Hydro Shark. radiant floor panels are a professional, modular system designed to make radiant floor installation simple, reliable, and easy. Everything you need to install is already mounted to the HydroShark® panel.

Quality Components

HydroShark® Radiant Floor Heating Systems use only premium components and quality assembly. They use only the best pumps, controls, and components. All plumbing joints are precision soldered and pressure tested. The steel mounting plate is powder coated and the piping is polished and clear coated.

Quality Design and Hydraulic Separation

HydroShark® panel systems feature a closely spaced tee to create hydraulic separation between the boiler loop and the emitter heating loop. The loops are independent and each uses its own pump. This allows the flow rate for each loop to be separately adjusted for optimum performance. This is far superior than systems that use a single loop for both the boiler and the heat tubing.

Modularity for Maximum System Versatility

HydroShark® panels offer maximum compatibility with radiant floor heating installations. Panels are available with or without the boiler integrated on the panel, allowing boilers to be installed separately from the heating panel. This increases both boiler choice and boiler installation location. HydroShark® components can be tailored for multiple systems and still provide an easy and professional installation no matter the system or where it is installed.

At the heart of the HydroShark® system are Master and Pro Panels. Pro Panels include an electric boiler on the panel for simple and incredibly easy installation. Master Panels connect to a separately mounted boiler, either electric or gas, for maximum boiler installation flexibility.

Single Zone & Multi-Zone Systems

For single zone systems, a Pro Panel or Master Panel (with separate boiler) is all that is needed. For multi-zone systems, a Pro Panel or Master Panel is combined with a Zoning Panel. HydroShark® has panels for multi-zone systems up to 4 zones that use pump zoning, valve zoning, or zoning with actuators. Zoning Panels are available with a single fluid delivery temperature, and up to four thermostat zones.

The modular design & preassembled panels of the HydroShark system remove engineering guesswork, and save installation time and expense.



Pro Panels incorporate electric boilers on the panel

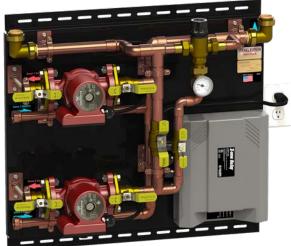
Single zone Pro Panel (shown) needs no additional Zoning Panel. Pro Panels for 2-, 3-, or 4-zones mate with the appropriate Zone Panel.



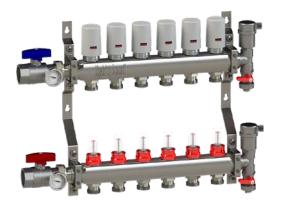
Master Panels can be mated with a separately mounted gas boiler.

Master Panels for more than a single zone mate with the appropriate Zone Panel.









Manifold with actuators

Zone Panels are available for 2-, 3-, or 4-zones, with zoning by pump or actuators.

Hydro Shark® Radiant Floor Panels

Features

- > Powder coated panel
- > Quick-mount rails
- > Heavy duty copper pipe and fittings are cleaned, brushed, > Pump isolator flanges & clear-coated
- > Precision solder joints
- > Pre-plumbed
- Pressure tested & pre-wired

Quality Components Include

- > Primary/secondary plumbing
- > Expansion tank
- > Y-strainer to catch debris
- › Air separator
- > Separate gauges for supply & return pressure/temperature
- > Purge tee
- > Pre-wired control
-) Pressure relief valve

Call HydroShark® with any sizing or installation question.

We're here to help.

All systems come with 1-year warranty & lifetime technical support.



ECM Energy Efficient Pumps

In addition to standard models, most HydroShark® panels are also available with electronically commutated motor (ECM) pumps for even greater energy efficiency.

ECM pump-equipped panels will reduce energy consumption by a minimum of 50%. If set to their automatic mode, they will analyze the heating system, find the optimum pump setting, and continuously adjust operation to changes in demand. This will reduce power consumption by up to 85%, ensuring the lowest possible energy consumption without sacrificing comfort.



DHW Integrator

The DHW Integrator Panel can be added to a Master Panel to create a system that will supply on-demand domestic hot water with no storage tank in addition to supplying heat to the radiant system.

Conventional boiler loop systems that also provide domestic hot water with tanks run the boiler at full capacity even if radiant heating is not called for or DHW demand is low. All HydroShark® systems modulate, adapting power to the load. Because the DHW Integrator Panel provides on demand domestic hot water with no tank, the system works at maximum efficiency even if demand for hot water is low.

The DHW Integrator Panel uses a stainless steel plate heat exchanger to isolate the potable water from the rest of the system to prevent any possibility of cross-contamination.



DHW Integrator 180

As easy as possible

HydroShark® has made it easy to configure radiant heating systems with our pre-assembled modular panel system. Use Btu heat losses to get accurate boiler sizing. Then choose the appropriate pump panel depending on your zoning system: single zone, zone by pump, zone by valve, or zone by actuator (telestat).

Or just call us for advice on system sizing and configuration.

HydroShark® strongly recommends professional installation by a licensed plumber and electrician.

Remove engineering guesswork, and save valuable installation labor expenses and time with HydroShark®.

Call HydroShark® with any sizing or installation question.

We're here to help.

All systems come with lifetime technical support.

Emitter Options

	Embedded Concrete	Pour Over	Staple Up	Radiator	Baseboard
HydroShark 7–10	✓	√			
HydroShark 12 – 36	✓	✓			
HydroShark 115	✓	✓			
HydroShark 120	✓	✓			
HydroShark 199	✓	✓	✓	✓	✓



Quality boilers

HydroShark® electric boilers range from 7 to 36 KW. They are an integral part of Pro Panels, offering simple and incredibly easy installation. They can also be installed separately and used in a Master Panel system.

HydroShark® gas boilers mount separately and are mated to Master Panels. There are 3 models of Hydro-Shark® gas boilers: 199,000 Btu condensing, 120,000 Btu condensing, and 115,000 Btu condensing. Gas boilers are available for both liquid propane or natural gas.

HydroShark® Electric Boilers

- No venting required
- Auto-modulating heating element with modulation status LED
- $\mathbf{)}$.264 .77 gpm flow activation
- Copper heating vessel
- > 86° 140°F temperature range
- > 12 36 kW models equipped with hinged cover
- Wall hung

HydroShark® Gas Boilers

-) Wall hung
-) .5 .75 gpm flow activation
-) Copper heat exchanger
- > No pilot light
-) Power-vented



HydroShark 115 Plus

115,000 Btu non-condensing gas boiler



HydroShark 120

120,000 Btu condensing gas boiler Hydro Shark 120

♠ ♠ ●

HydroShark 199

199,000 Btu condensing gas boiler Hydro Shark 199





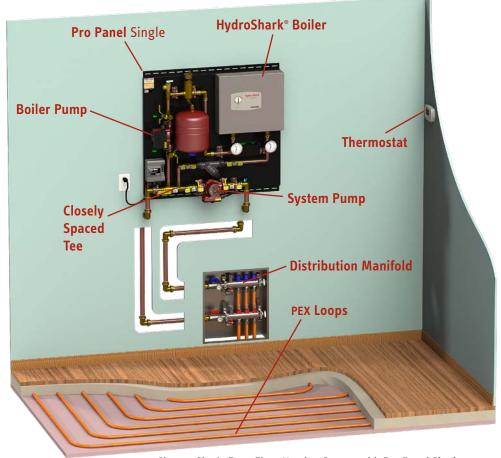


	HydroShark® 7 & 10 plus 12 - 36
Fuel	Electric
Energy Factor	.99
Temp. range	86-140 °F
Minimum modulation	1,700 Btu
Venting	None required

	HydroShark® 115 Plus	HydroShark® 120	HydroShark®t 199
Fuel	LP or Nat. Gas	LP or Nat. Gas	LP or Nat. Gas
Energy Factor	.82 NG .83 LP	.93	.95
Temp. range	99-140 °F	99-140 °F	80-160 °F*
Modulation range	15,000-115,000 Btu	13,950-111,600 Btu	12,350-189,050 Btu
Venting	3" Cat.III Stainless	3" Sch. 40 PVC	3" Sch. 40 PVC
		*un to 185°F wi	th additional control

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Hydro Shark. Pro Panel Single Zone



Shown: Single Zone Floor Heating System with Pro Panel Single 12-36

Single Zone System with Pro Panel

When the **Thermostat** calls for heat, the **HydroShark**° **Boiler** fires (if necessary), and the **Boiler Pump** moves the heated fluid around the primary loop. Heat transfers to the secondary circuit via the **Closely Spaced Tee**, and is delivered throughout the secondary circuit through the **System Pump**.

The **PEX Loops** in the secondary emitter circuit can be adjusted individually with the **Distribution Manifold**, which should have flow meters and on/off valves for filling, purging, and adjusting flow individually for each **PEX Loop**.

The **Closely Spaced Tee** allows the primary boiler loop and the secondary emitter loop (PEX loop) to be hydraulically separated from each other. This allows the flow rates of each circuit to be set independently for optimum performance.

Pro Panel Single Zone

		Item No.	Description
	Pro Panel 7 Single	HSPS007	Pro Panel 7 kW Single Zone
rs	Pro Panel 10 Single	HSPS010	Pro Panel 10 kW Single Zone
ODE	Pro Panel 12 Single	HSPS012	Pro Panel 12 kW Single Zone
D MO	Pro Panel 14 Single	HSPS014	Pro Panel 14 kW Single Zone
AR	Pro Panel 19 Single	HSPS019	Pro Panel 19 kW Single Zone
TAND	Pro Panel 24 Single	HSPS024	Pro Panel 24 kW Single Zone
ST	Pro Panel 29 Single	HSPS029	Pro Panel 29 kW Single Zone
	Pro Panel 36 Single	HSPS036	Pro Panel 36 kW Single Zone
	ECM Pro Panel 7 Single	HSPSE07	ECM Pro Panel 7 kW Single Zone
	ECM Pro Panel 10 Single	HSPSE10	ECM Pro Panel 10 kW Single Zone
rs*	ECM Pro Panel 12 Single	HSPSE12	ECM Pro Panel 12 kW Single Zone
MODE	ECM Pro Panel 14 Single	HSPSE14	ECM Pro Panel 14 kW Single Zone
M	ECM Pro Panel 19 Single	HSPSE19	ECM Pro Panel 19 kW Single Zone
ECA	ECM Pro Panel 24 Single	HSPSE24	ECM Pro Panel 24 kW Single Zone
	ECM Pro Panel 29 Single	HSPSE29	ECM Pro Panel 29 kW Single Zone
	Ecit 1101 dilet 27 Single		

*ECM Pro Panel Singles are equipped with an ECM system pump, which is up to 85% more efficient than a standard pump.



Hydro Shark. **Pro Panel** Single Zone

Tech Specs

	Pro Panel 7-36 Single Zone
Emitter Supply-Return Connections	1" Quick Connect (PEX or Copper)
Btu Piping Capacity of Panel	120,000 Btu
Weight	Pro Panel 7–10 (51 lb.) Pro Panel 12–24 (80 lb.) Pro Panel 29–36 (85 lb.)
Panel Size	Pro Panel 7 – 10 (32½" H x 26″ W x 12″ D) Pro Panel 12 – 36 (34½" H x 32½" W x 12″ D)
Boiler Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
System Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
ECM Panel System Pump*	ALPHA2 15-55, 0-19 FT HD, 0-21 gpm
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom
Max. Temperature	155 °F
Fill Pressure (Cold)	18 psi
Max. Tested Pressure	75 psi
Panel Material	Powder Coated Steel - Black
Pressure Relief Valve	30 psi
Expansion Tank	2.1 gal, Pre-charged 12 psi
Thermostat Capacity	Max. 1 thermostat (24 Vac)
Controller Power Supply	120 V, 60 Hz, 6 Amp
Boiler Power Supply	See HydroShark® Boiler Specs

*ECM Pro Panel Singles are equipped with an ECM system pump. ECM pumps are up to 85% more efficient than standard pumps.

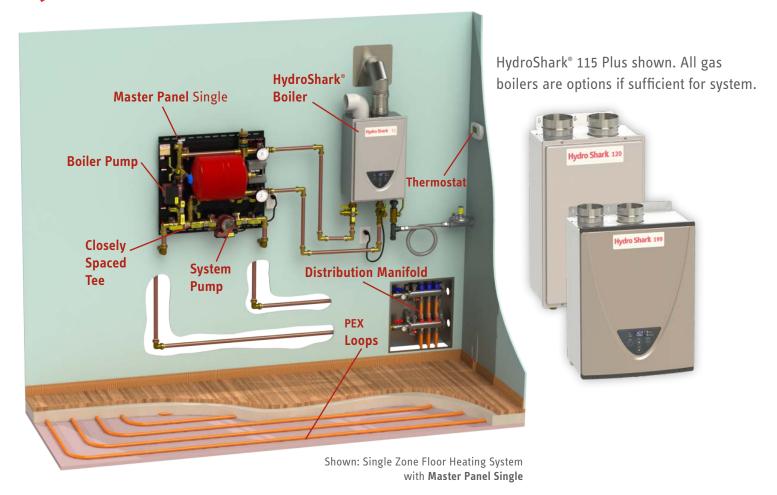




Pro Panel Single Zone with HydroShark® 7 – 10



Hydro Shark. Master Panel Single Zone



Single Zone System with Master Panel

When the **Thermostat** calls for heat, the **HydroShark**® **Boiler** fires (if necessary), and the **Boiler Pump** moves the heated fluid around the primary loop. Heat transfers to the secondary circuit via the **Closely Spaced Tee**, and is delivered throughout the secondary circuit through the **System Pump**.

The **PEX Loops** in the secondary emitter circuit can be adjusted individually with the **Distribution Manifold**, which should have flow meters and on/off valves for filling, purging, and adjusting flow individually for each **PEX Loop**.

The **Closely Spaced Tee** allows the primary boiler loop and the secondary emitter loop (PEX loop) to be hydraulically separated from each other. This allows the flow rates of each circuit to be set independently for optimum performance.

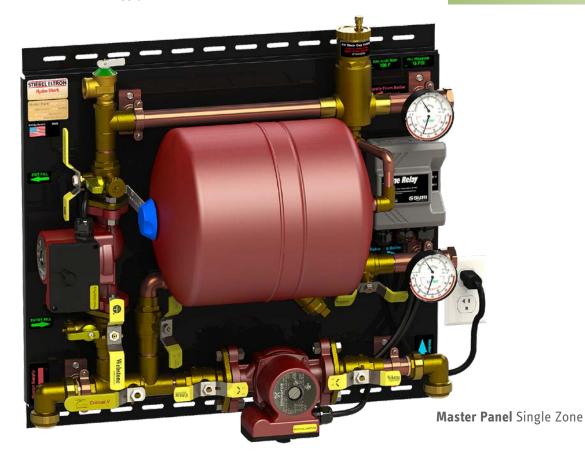


Hydro Shark. **Master Panel** Single Zone

Tech Specs

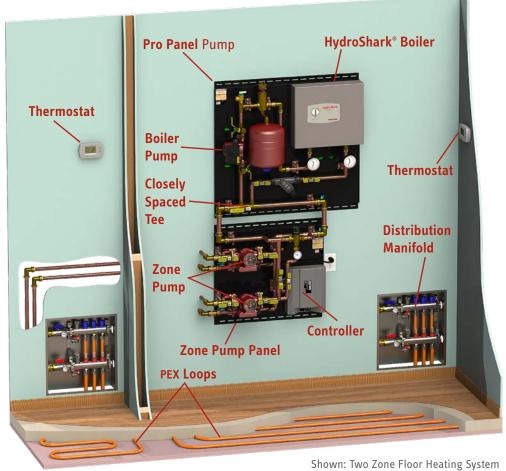
icen spees	
	Master Panel Single
Standard Item No.	HSMSIN0
ECM Item No.*	HSMSINE
Boiler Supply - Return Connections	3/4," FPT
System Supply-Return Connections	1" Quick Connect (PEX or Copper)
Btu Capacity	190,000 Btu
Weight	58 lb.
Panel Size	26 ¹ / ₄ "H x 26"W x 10"D
Boiler Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
System Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
ECM System Pump*	ALPHA 15-55FC/LC
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom
Maximum Temperature	155 °F
Fill Pressure (Cold)	18 psi
Maximum Tested Pressure	75 psi
Panel Material	Powder Coated Steel - Black
Pressure Relief Valve	30 psi
Expansion Tank	2.1 gal, Pre-charged 12 psi
Thermostat Capacity	Max. 1 Thermostat (24 Vac)
Controller Power Supply	120 V, 60 Hz, 6 A

*ECM Master Panel Single is equipped with an ECM system pump. ECM pumps are up to 85% more efficient than standard pumps.



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Hydro Shark. Pro Panel Pump



Shown: Two Zone Floor Heating System with Pro Panel Pump 12 - 36 and 2-Zone Pump Panel

Multi-zone systems with Pro Panel and zoning by pump

When a **Thermostat** calls for heat, the **HydroShark**° **Boiler** fires (if necessary), and the **Boiler Pump** moves the heated fluid around the primary loop. Heat transfers to the **Zone Pump Panel** and the secondary emitter circuit via the **Closely Spaced Tee**.

Each **Zone Pump** on the Zone Pump Panel is paired with an associated **Thermostat**. Once a **Zone Pump** is energized, the heated fluid is delivered to the **Distribution Manifold**. The **Zone Pumps** have built in check valves to prevent back flow.

The **PEX Loops** in each emitter circuit can be adjusted individually with their **Distribution Manifold**, which should have flow meters and on/off valves for filling, purging, and adjusting flow individually for each **PEX Loop**.

The **Closely Spaced Tee** allows the primary boiler loop and the secondary emitter loop (PEX loop) to be hydraulically separated from each other. This allows the flow rates of each circuit to be set independently for optimum performance.

Pro Panel Pump

1 1 2 1 1111 1111 1111		
	Item No.	Description
Pro Panel 7 Pump	HSPP007	Pro Panel 7 kW Pump Zoning
Pro Panel 10 Pump	HSPP010	Pro Panel 10 kW Pump Zoning
Pro Panel 12 Pump	HSPP012	Pro Panel 12 kW Pump Zoning
Pro Panel 14 Pump	HSPP014	Pro Panel 14 kW Pump Zoning
Pro Panel 19 Pump	HSPP019	Pro Panel 19 kW Pump Zoning
Pro Panel 24 Pump	HSPP024	Pro Panel 24 kW Pump Zoning
Pro Panel 29 Pump	HSPP029	Pro Panel 29 kW Pump Zoning
Pro Panel 36 Pump	HSPP036	Pro Panel 36 kW Pump Zoning

Pro Panel Pump with HydroShark® 7 – 10



Hydro Shark. Pro Panel Pump

Tech Specs

	Pro Panel 7 - 36 Pump
Zone Panel S/R Connections	1" Quick Connect (PEX or Copper)
Btu Capacity of Panel Piping	120,000 Btu
Weight	Pro Panel 7 – 10 (81 lb.) Pro Panel 12 – 36 (102 lb.)
Panel Size	Pro Panel 7 - 10 (32½"H x 26"W x 12"D) Pro Panel 12 - 36 (34½"H x 32½"W x 12"D)
Boiler Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom
Maximum Temperature	155 °F
Fill Pressure (Cold)	18 psi
Maximum Tested Pressure	75 psi
Panel Material	Powder Coated Steel - Black
Pressure Relief Valve	30 psi
Expansion Tank	2.1 gal, Pre-charged 12 psi
Boiler Power Supply	See HydroShark® Specs



Pro Panel Pump with HydroShark® 12 - 36

Hydro Shark. Zoning Panels Pump

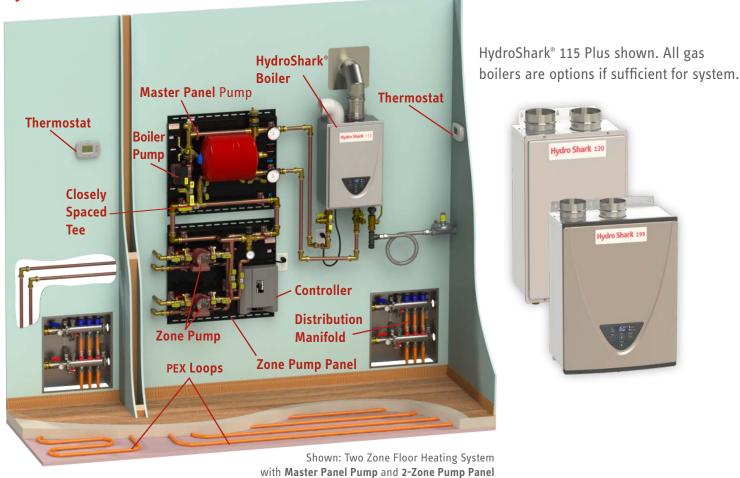
Tech Specs for Zoning Panels that mate with Pro Panel Pump (4 thermostats maximum)

	2-Zone Pump Panel	3-Zone Pump Panel	4-Zone Pump Panel
Standard Item No.	HSZP002	HSZP003	HSZP004
ECM Item No.*	HSZPE02	HSZPE03	HSZPE04
Master S/R Connections	1" Quick Connect	1" Quick Connect	1" Quick Connect
Emitter S/R Connections	³/4" Quick Connect (PEX or Copper)	³/4" Quick Connect (PEX or Copper)	³/4" Quick Connect (PEX or Copper)
BTU Capacity	190,000 Btu	190,000 Btu	190,000 Btu
Weight	42 lb.	53 lb.	69 lb.
Panel Size	26 ¹ / ₄ "H x 26"W x 10"D	26 ¹ / ₄ "H x 26"W x 10"D	32 ½" H x 26" W x 10" D
Zone Pumps	UPS15-58FC (2), 0-19 FT HD, 0-17 gpm	UPS15-58FC (3), 0-19 FT HD, 0-17 gpm	UPS15-58FC (4), 0-19 FT HD, 0-17 gpm
ECM Zone Pumps*	ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpm	ALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpm	ALPHA2 15-55 (4), 0-19 FT HD, 0-21 gpm
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom	1" Left, 1" Right, 1" Top, 1" Bottom	1" Left, 1" Right, 1" Top, 1" Bottom
Maximum Temperature	155 °F	155 °F	155 °F
Fill Pressure (Cold)	18 psi	18 psi	18 psi
Max. Tested Pressure	75 psi	75 psi	75 psi
Panel Material	Powder Coated Steel - Black	Powder Coated Steel - Black	Powder Coated Steel - Black
Thermostat Capacity	2 Thermostats (24 Vac)	3 Thermostats (24 Vac)	4 Thermostats (24 Vac)
Controller	ZSR103	ZSR103	ZSR104
Controller Power Supply	120 V, 60 Hz, 6 A	120 V, 60 Hz, 6 A	120 V, 60 Hz, 6 A

*ECM Zoning Pump Panels are equipped with ECM system pumps. ECM pumps are up to 85% more efficient than a standard pump.



Hydro Shark. Master Panel Pump



Multi-zone systems with Master Panel and zoning by pump

When a **Thermostat** calls for heat, the **HydroShark**° **Boiler** fires (if necessary), and the **Boiler Pump** moves the heated fluid around the primary loop. Heat transfers to the **Zone Pump Panel** and the secondary emitter circuit via the **Closely Spaced Tee**.

Each **Zone Pump** on the Zone Pump Panel is paired with an associated **Thermostat**. Once a **Zone Pump** is energized, the heated fluid is delivered to the **Distribution Manifold**. The **Zone Pumps** have built in check valves to prevent back flow.

The **PEX Loops** in each emitter circuit can be adjusted individually with their **Distribution Manifold**, which should have flow meters and on/off valves for filling, purging, and adjusting flow individually for each **PEX Loop**.

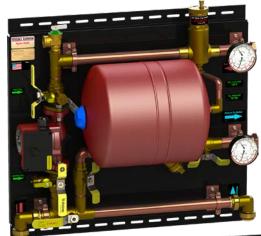
The **Closely Spaced Tee** allows the primary boiler loop and the secondary emitter loop (PEX loop) to be hydraulically separated from each other. This allows the flow rates of each circuit to be set independently for optimum performance.



Hydro Shark. Master Panel Pump

Tech Specs

	Master Panel Pump
Item No.	HSMPMP0
Boiler S/R Connections	3/4" FPT
Zone Panel S/R Connections	1" Quick Connect (PEX or Copper)
Btu Capacity	190,000 Btu
Weight	44 lb.
Panel Size	26 ¹ / ₄ "H x 26"W x 10"D
Boiler Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom
Maximum Temperature	155 °F
Fill Pressure (Cold)	18 psi
Maximum Tested Pressure	75 psi
Panel Material	Powder Coated Steel - Black
Pressure Relief Valve	30 psi
Expansion Tank	2.1 gal, Pre-charged 12 psi



Master Panel Pump



2-Zone Pump Panel

Hydro Shark. **Zoning Panels** Pump

Tech Specs for Zoning Panels that mate with Master Panel Pump (4 thermostats maximum)

Standard Item No.HSZP002HSZP003HSZP003HSZP004Item No. ECM*HSZPE02HSZPE03HSZPE04Master S/R Connections1" Quick Connect (PEX or Copper)1" Quick Connect (PEX or Copper)1" Quick Connect (PEX or Copper)1" Quick Connect (PEX or Copper)BTU Capacity190,000 Btu190,000 Btu190,000 Btu190,000 BtuPanel Size26 ¼"H x 26"W x 10"D26 ¼"H x 26"W x 10"D32 ½"H x 26"W x 10"DZone PumpsUPS15-58FC (2), 0-19 FT HD, 0-17 gpmUPS15-58FC (3), 0-19 FT HD, 0-17 gpmUPS15-58FC (4), 0-19 FT HD, 0-17 gpmECM Zone Pumps*ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (4), 0-19 FT HD, 0-17 gpmPanel Clearances1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" BottomMaximum Temperature155 °F155 °F155 °FFill Pressure (Cold)18 psi155 °F155 °FPanel MaterialPowder Coated Steel - BlackPowder Coated Steel - BlackPowder Coated Steel - BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)Controller Power Supply120 V, 60 Hz, 6 A120 V, 60 Hz, 6 A120 V, 60 Hz, 6 A				
Item No. ECM*HSZPE02HSZPE03HSZPE04Master S/R Connections1" Quick Connect1" Quick Connect1" Quick ConnectEmitter S/R Connections3/4" Quick Connect (PEX or Copper)3/4" Quick Connect (PEX or Copper)3/4" Quick Connect (PEX or Copper)BTU Capacity190,000 Btu190,000 Btu190,000 Btu190,000 BtuWeight42 lb.53 lb.69 lb.Panel Size26 ¼"H x 26"W x 10"D32 ½"H x 26"W x 10"D32 ½"H x 26"W x 10"DZone PumpsUPS15-58FC (2), 0-19 FT HD, 0-17 gpmUPS15-58FC (3), 0-19 FT HD, 0-17 gpmUPS15-58FC (4), 0-19 FT HD, 0-17 gpmECM Zone Pumps*ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (4), 0-19 FT HD, 0-21 gpmPanel Clearances1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" BottomMaximum Temperature155 °F155 °F155 °F155 °FFill Pressure (Cold)18 psi18 psi18 psi18 psiMax. Tested Pressure75 psi75 psi75 psi75 psiPanel MaterialPowder Coated Steel - BlackPowder Coated Steel - BlackPowder Coated Steel - BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)Controller25R10325R10325R10325R103		2-Zone Pump Panel	3-Zone Pump Panel	4-Zone Pump Panel
Master S/R Connections1" Quick Connect1" Quick Connect1" Quick ConnectEmitter S/R Connections3/4" Quick Connect (PEX or Copper)3/4" Quick Connect (PEX or Copper)3/4" Quick Connect (PEX or Copper)BTU Capacity190,000 Btu190,000 Btu190,000 Btu190,000 BtuWeight42 lb.53 lb.69 lb.Zone Pumps19515-58FC (2), 0-19 FT HD, 0-17 gpm19515-58FC (3), 0-19 FT HD, 0-17 gpm19515-58FC (4), 0-19 FT HD, 0-17 gpmECM Zone Pumps*ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (4), 0-19 FT HD, 0-17 gpmPanel Clearances1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" BottomMaximum Temperature155 °F155 °F155 °FFill Pressure (Cold)18 psi18 psi18 psiMax. Tested Pressure75 psi75 psi75 psiPanel MaterialPowder Coated Steel - BlackPowder Coated Steel - BlackPowder Coated Steel - BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)Controller25R10325R10325R103	Standard Item No.	HSZP002	HSZP003	HSZP004
Emitter S/R Connections 3/4" Quick Connect (PEX or Copper) 3/4" Quick Connect (PEX or Copper) 3/4" Quick Connect (PEX or Copper) BTU Capacity 190,000 Btu 190,000 Btu 190,000 Btu 190,000 Btu Weight 42 lb. 53 lb. 69 lb. Panel Size 26 ½"H x 26"W x 10"D 32½"H x 26"W x 10"D 32½"H x 26"W x 10"D Zone Pumps UPS15-58FC (2), 0-19 FT HD, 0-17 gpm UPS15-58FC (3), 0-19 FT HD, 0-17 gpm UPS15-58FC (4), 0-19 FT HD, 0-17 gpm ECM Zone Pumps* ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpm ALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpm ALPHA2 15-55 (4), 0-19 FT HD, 0-19 gpm Panel Clearances 1" Left, 1" Right, 1" Top, 1" Bottom 155 °F Fill Pressure (Cold) 18 psi 18 psi 75 psi 75 psi 75 psi 75 psi Panel Material Powder Coated Steel - Black Thermostat Capacity 2 Thermostats (24 Vac) 3 Thermostats (24 Vac) 4 Thermostats (24 Vac) 4 Thermostats (24 Vac)	Item No. ECM*	HSZPE02	HSZPE03	HSZPE04
BTU Capacity 190,000 Btu 200,000 Btu	Master S/R Connections	1" Quick Connect	1" Quick Connect	1" Quick Connect
Weight42 lb.53 lb.69 lb.Panel Size26 ¼ H x 26 W x 10 D26 ¼ H x 26 W x 10 D32 ½ H x 26 W x 10 DZone PumpsUPS15-58FC (2), 0-19 FT HD, 0-17 gpmUPS15-58FC (3), 0-19 FT HD, 0-17 gpmUPS15-58FC (4), 0-19 FT HD, 0-17 gpmECM Zone Pumps*ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (4), 0-19 FT HD, 0-21 gpmPanel Clearances1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" BottomMaximum Temperature155 °F155 °F155 °FFill Pressure (Cold)18 psi18 psi18 psiMax. Tested Pressure75 psi75 psi75 psiPanel MaterialPowder Coated Steel - BlackPowder Coated Steel - BlackPowder Coated Steel - BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)Controller2 SR1032 SR1032 SR103	Emitter S/R Connections	³/4" Quick Connect (PEX or Copper)	³/4" Quick Connect (PEX or Copper)	³/4" Quick Connect (PEX or Copper)
Panel Size 26 ¼"H x 26"W x 10"D 28 ¼"H x 26"W x 10"D 48 ¼ H x 16"HD, 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (3), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (3), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4), 0-19 FT HD, 0-19 gpm 48 ¼ H PHA2 15-55 (4),	вти Capacity	190,000 Btu	190,000 Btu	190,000 Btu
Zone Pumps UPS15-58FC (2), 0-19 FT HD, 0-17 gpm UPS15-58FC (3), 0-19 FT HD, 0-17 gpm ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpm ALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpm ALPHA2 15-55 (4), 0-19 FT HD, 0-17 gpm ALPHA2 15-55 (4), 0-19 FT HD,	Weight	42 lb.	53 lb.	69 lb.
ECM Zone Pumps*ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpmALPHA2 15-55 (4), 0-19 FT HD, 0-21 gpmPanel Clearances1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" BottomMaximum Temperature155 °F155 °F155 °FFill Pressure (Cold)18 psi18 psi18 psiMax. Tested Pressure75 psi75 psi75 psiPanel MaterialPowder Coated Steel – BlackPowder Coated Steel – BlackPowder Coated Steel – BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)ControllerZSR103ZSR103ZSR104	Panel Size	26 ¹ / ₄ "H x 26"W x 10"D	26 ¹ /4" H × 26" W × 10" D	32 ½" H x 26" W x 10" D
Panel Clearances1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" Bottom1" Left, 1" Right, 1" Top, 1" BottomMaximum Temperature155 °F155 °F155 °FFill Pressure (Cold)18 psi18 psi18 psiMax. Tested Pressure75 psi75 psi75 psiPanel MaterialPowder Coated Steel - BlackPowder Coated Steel - BlackPowder Coated Steel - BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)ControllerZSR103ZSR103ZSR104	Zone Pumps	UPS15-58FC (2), 0-19 FT HD, 0-17 gpm	UPS15-58FC (3), 0-19 FT HD, 0-17 gpm	UPS15-58FC (4), 0-19 FT HD, 0-17 gpm
Maximum Temperature155 °F155 °F155 °FFill Pressure (Cold)18 psi18 psi18 psiMax. Tested Pressure75 psi75 psi75 psiPanel MaterialPowder Coated Steel – BlackPowder Coated Steel – BlackPowder Coated Steel – BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)ControllerZSR103ZSR103ZSR104	ECM Zone Pumps*	ALPHA2 15-55 (2), 0-19 FT HD, 0-21 gpm	ALPHA2 15-55 (3), 0-19 FT HD, 0-21 gpm	ALPHA2 15-55 (4), 0-19 FT HD, 0-21 gpm
Fill Pressure (Cold) 18 psi 19	Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom	1" Left, 1" Right, 1" Top, 1" Bottom	1" Left, 1" Right, 1" Top, 1" Bottom
Max. Tested Pressure75 psi75 psi75 psiPanel MaterialPowder Coated Steel – BlackPowder Coated Steel – BlackPowder Coated Steel – BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)ControllerZSR103ZSR103ZSR104	Maximum Temperature	155 °F	155 °F	155 °F
Panel MaterialPowder Coated Steel – BlackPowder Coated Steel – BlackPowder Coated Steel – BlackThermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)ControllerZSR103ZSR103ZSR104	Fill Pressure (Cold)	18 psi	18 psi	18 psi
Thermostat Capacity2 Thermostats (24 Vac)3 Thermostats (24 Vac)4 Thermostats (24 Vac)ControllerZSR103ZSR103ZSR104	Max. Tested Pressure	75 psi	75 psi	75 psi
Controller ZSR103 ZSR103 ZSR104	Panel Material	Powder Coated Steel - Black	Powder Coated Steel - Black	Powder Coated Steel - Black
	Thermostat Capacity	2 Thermostats (24 Vac)	3 Thermostats (24 Vac)	4 Thermostats (24 Vac)
Controller Power Supply 120 V, 60 Hz, 6 A 120 V, 60 Hz, 6 A 120 V, 60 Hz, 6 A	Controller	ZSR103	ZSR103	ZSR104
	Controller Power Supply	120 V, 60 Hz, 6 A	120 V, 60 Hz, 6 A	120 V, 60 Hz, 6 A

*ECM Zoning Pump Panels are equipped with ECM system pumps. ECM pumps are up to 85% more efficient than a standard pump.

STIEBEL ELTRON

Hydro Shark. Pro Panel Actuators **Pro Panel** Actuator HydroShark® Boiler **Thermostat** Boiler **Pump** MIN : **Thermostat** Controller -Distribution Closely-System Manifold Spaced **Pump** Tee **PEX Loops** Shown: Two-Zone Floor Heating System using

Pro Panel Actuator 12 - 36 and Manifold with Actuators

Multi-zone systems with Pro Panel and zoning by actuator

When a Thermostat calls for heat, the HydroShark® Boiler fires (if necessary), and the **Boiler Pump** moves the heated fluid around the primary loop. Heat transfers to the secondary emitter circuit via the Closely Spaced Tee.

The **System Pump** circulates the heat to the Distribution Manifold, where **Actuators,** grouped to form each zone, open and close the ports, which may have more than one PEX Loop. Actuator operation is controlled by the **Zone Valve Controller.** Primary circuit flow activates the HydroShark® Boiler.

The PEX Loops can be adjusted individually with a proper Distribution Manifold, which should have flow meters and on/ off valves for filling, purging, and adjusting flow for each PEX loop. This system may require a Pressure Bypass valve on the **Distribution Manifold**.

Pro Panel Actuator

		Item No.	Description
	Pro Panel 7 Actuator	HSPA007	Pro Panel 7 kW Actuator Zoning
rs I	Pro Panel 10 Actuator	HSPA010	Pro Panel 10 kW Actuator Zoning
MODE	Pro Panel 12 Actuator	HSPA012	Pro Panel 12 kW Actuator Zoning
	Pro Panel 14 Actuator	HSPA014	Pro Panel 14 kW Actuator Zoning
ARI	Pro Panel 19 Actuator	HSPA019	Pro Panel 19 kW Actuator Zoning
TANDARD	Pro Panel 24 Actuator	HSPA024	Pro Panel 24 kW Actuator Zoning
ST	Pro Panel 29 Actuator	HSPA029	Pro Panel 29 kW Actuator Zoning
	Pro Panel 36 Actuator	HSPA036	Pro Panel 36 kW Actuator Zoning
	ECM Pro Panel 7 Actuator	HSPAE07	ECM Pro Panel 7 kW Actuator Zoning
	ECM Pro Panel 10 Actuator	HSPAE10	ECM Pro Panel 10 kW Actuator Zoning
*87	ECM Pro Panel 12 Actuator	HSPAE12	ECM Pro Panel 12 kW Actuator Zoning
MODE	ECM Pro Panel 14 Actuator	HSPAE14	ECM Pro Panel 14 kW Actuator Zoning
	ECM Pro Panel 19 Actuator	HSPAE19	ECM Pro Panel 19 kW Actuator Zoning
EC M	ECM Pro Panel 24 Actuator	HSPAE24	ECM Pro Panel 24 kW Actuator Zoning
	ECM Pro Panel 29 Actuator	HSPAE29	ECM Pro Panel 29 kW Actuator Zoning
	ECM Pro Panel 36 Actuator	HSPAE36	ECM Pro Panel 36 kW Actuator Zoning

The **Closely Spaced Tee** allows the primary boiler loop and the secondary emitter loop (PEX loop) to be hydraulically separated from each other. This allows the flow rates of each circuit to be set independently for optimum performance.

*ECM Pro Panel Actuators are equipped with an ECM system pump. ECM pumps are up to 85% more efficient than standard pumps.



Hydro Shark. Pro Panel Actuators

Tech Specs

icen spees	
	Pro Panel 7 – 36 Actuator
Zone Panel S/R Connections	1" Quick Connect (PEX or Copper)
Btu Piping Capacity of Panel	120,000 Btu
Weight	7 – 10 kW (51 lb.) 12 – 24 kW (85 lb.) 29 – 36 kW (80 lb.)
Panel Size	Pro Panel 7 – 10 (32½"H x 26"W x 12"D) Pro Panel 12 – 36 (34½"H x 32½"W x 12"D)
Boiler Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
System Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
ECM System Pump*	ALPHA2 15-55, 0-19 FT HD, 0-21 gpm
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom
Maximum Temperature	155 °F
Fill Pressure (Cold)	18 psi
Maximum Tested Pressure	75 psi
Panel Material	Powder Coated Steel - Black
Pressure Relief Valve	30 psi
Expansion Tank	2.1 gal, Pre-charged 12 psi
Boiler Power Supply	See HydroShark® Specs



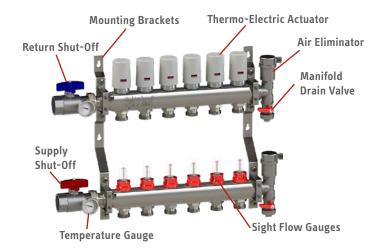
Pro Panel Actuator

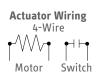
*ECM Pro Panel Actuators are equipped with an ECM system pump. ECM pumps are up to 85% more efficient than standard pumps.

Manifolds with Actuators

	Item No.	Description
Manifold 4	HSMA004	4 Actuator Manifold
Manifold 5	HSMA005	5 Actuator Manifold
Manifold 6	HSMA006	6 Actuator Manifold
Manifold 7	HSMA007	7 Actuator Manifold
Manifold 8	HSMA008	8 Actuator Manifold
Manifold 9	HSMA009	9 Actuator Manifold
Manifold 10	HSMA010	10 Actuator Manifold
Manifold 11	HSMA011	11 Actuator Manifold
Manifold 12	HSMA012	12 Actuator Manifold

Note: Please enquire about manifolds without actuators, caps, compression fittings, or actuators only.

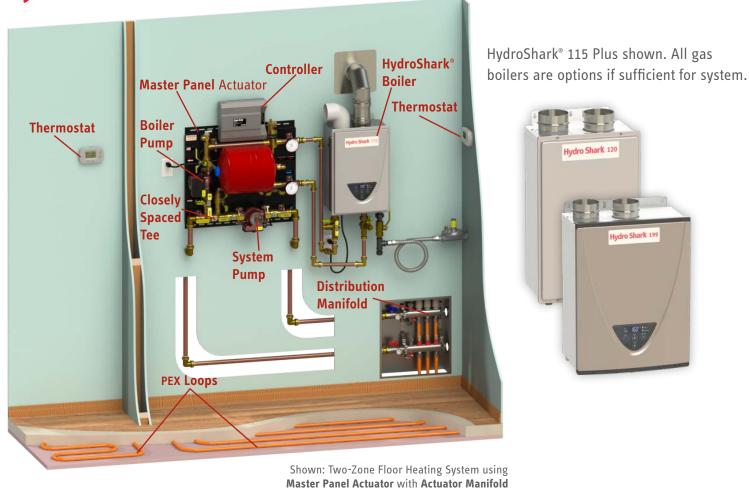








Hydro Shark. Master Panel Actuators



Multi-zone systems with Master Panel and zoning by actuator

When a **Thermostat** calls for heat, the **HydroShark**° **Boiler** fires (if necessary), and the **Boiler Pump** moves the heated fluid around the primary loop. Heat transfers to the secondary emitter circuit via the **Closely Spaced Tee**.

The **System Pump** circulates the heat to the **Distribution Manifold**, where **Actuators**, grouped to form each zone, open and close the ports, which may have more than one **PEX Loop**. **Actuator** operation is controlled by the **Zone Valve Controller**. Primary circuit flow activates the **HydroShark**® **Boiler**.

The **PEX Loops** can be adjusted individually with a proper **Distribution Manifold**, which should have flow meters and on/off valves for filling, purging, and adjusting flow for each PEX loop. This system may require a **Pressure Bypass** valve on the **Distribution Manifold**.

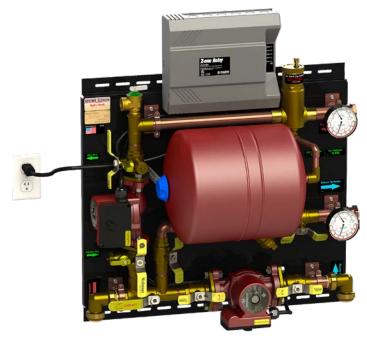
The **Closely Spaced Tee** allows the primary boiler loop and the secondary emitter loop (PEX loop) to be hydraulically separated from each other. This allows the flow rates of each circuit to be set independently for optimum performance.



Hydro Shark. Master Panel Actuator

Tech Specs

	Master Panel Actuator
Standard Item No.	HSMACT0
ECM Item No.*	HSMACTE
Boiler Panel S/R Connections	3/4" FPT
Zone Panel S/R Connections	1" Quick Connect (PEX or Copper)
Btu Capacity	190,000 Btu
Weight	77 lb.
Panel Size	26 ¹ / ₄ " H x 26" W x 10" D
Boiler Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
System Pump	UPS15-58FC, 0-19 FT HD, 0-17 gpm
ECM System Pump*	ALPHA2 15-55, 0-19 FT HD, 0-21 gpm
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom
Maximum Temperature	155 °F
Fill Pressure (Cold)	18 psi
Maximum Tested Pressure	75 psi
Panel Material	Powder Coated Steel - Black
Pressure Relief Valve	30 psi
Expansion Tank	2.1 gal, Pre-charged 12 psi
Thermostat Capacity	4 Thermostats (24 Vac)
Controller	ZVR104
Controller Power Supply	120 V, 60 Hz, 6 Amp



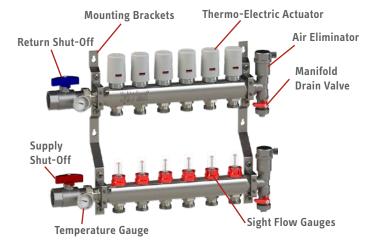
Master Panel Actuator

* ECM Master Panel Actuator is equipped with an ECM system pump. ECM pumps are up to 85% more efficient than standard pumps.

Manifolds with Actuators

	Item No.	Description
Manifold 4	HSMA004	4 Actuator Manifold
Manifold 5	HSMA005	5 Actuator Manifold
Manifold 6	HSMA006	6 Actuator Manifold
Manifold 7	HSMA007	7 Actuator Manifold
Manifold 8	HSMA008	8 Actuator Manifold
Manifold 9	HSMA009	9 Actuator Manifold
Manifold 10	HSMA010	10 Actuator Manifold
Manifold 11	HSMA011	11 Actuator Manifold
Manifold 12	HSMA012	12 Actuator Manifold

Note: Please enquire about manifolds without actuators, caps, compression fittings, or actuators only.

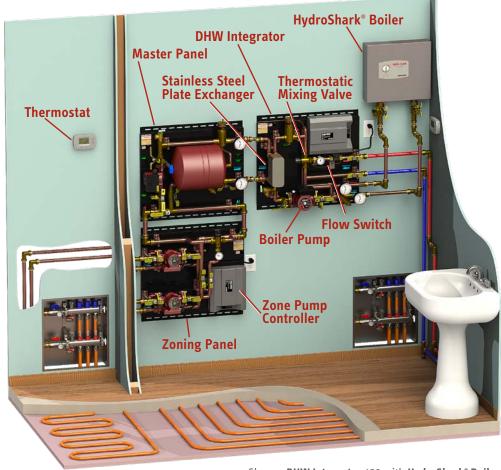








Hydro Shark. DHW Integrator



Shown: DHW Integrator 120 with HydroShark* Boiler and two zone floor heating system with Master Panel Pump and 2-Zone Pump Panel

The DHW Integrator Panel added to a **HydroShark**° **Boiler** and **Space Heating Panel** system provides both on-demand potable water and radiant heating with no storage tank.

When there is demand domestic hot water, the potable water **Flow Switch** deactivates the **Boiler Pump**, temporarily preventing flow through the primary side of the **Stainless Steel Plate Exchanger**. When there is no demand for domestic hot water, the **Boiler Pump** will satisfy space heating, if the **Thermostat** is calling for heat. A **Stainless Steel Plate Exchanger** isolates potable water and space heating circuits to prevent fluid cross-contamination. A **Thermostatic Mixing Valve** controls the set temperature for the domestic hot water.

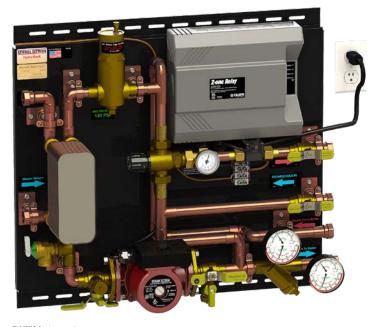
Choose the correct size of the HydroShark® boiler for a DHW (Domestic Hot Water) Integrator by determining the larger demand, space heating or potable water. A BTU heat loss should be calculated for space heating. For potable water, determine the total flow rate or peak system demand, then size the boiler with curves for flow rate vs temperature rise. HydroShark® boilers modulate power to adapt to load requirements.



Hydro Shark. DHW Integrator

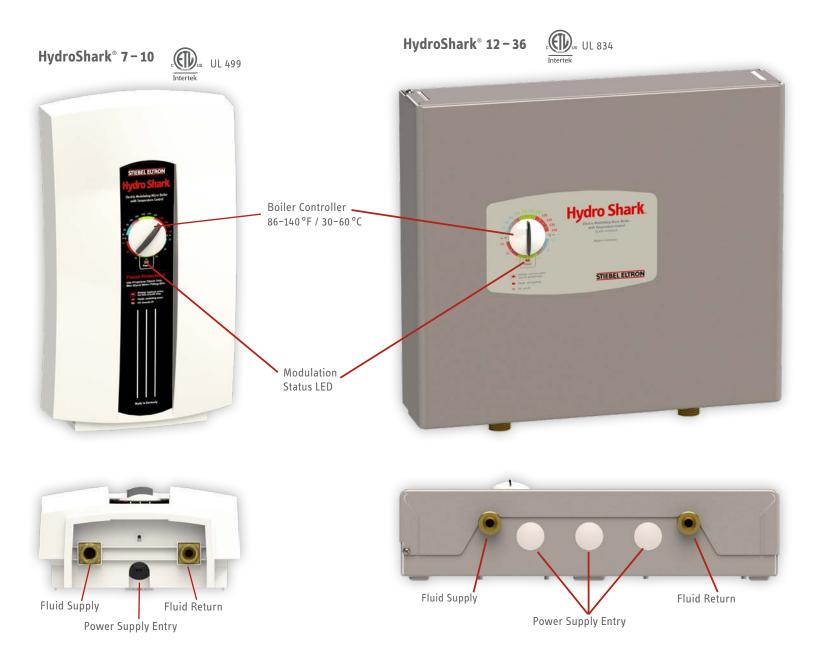
Tech Specs

	DHW Integrator 120	DHW Integrator 180
Item No.	HSDW120	HSDW199
Master Panel S/R Connections	3/4" FPT	1" FPT
Heat Source S/R Connections	3/4" FPT	
Domestic Water Connections	3/4" FPT	
Btu Piping Capacity of Panel	120,000 Btu	180,000 Btu
Weight	43 lbs.	
Panel Size	26 ¹ / ₄ "H x 26"W x 10" D	
Boiler Pump	CP3S26-110BFC	
Panel Clearances	1" Left, 1" Right, 1" Top, 1" Bottom	
Max. Space Heating Temperature	See Boiler Spec	
Fill Pressure (Cold)	50 – 75 psi (Household Tank Pressure)	
Maximum Tested Pressure	150 psi	
Panel Material	Powder Coated Steel - Black	
Pressure Relief Valve	150 psi	
Plate Exchanger-Stainless	30 Plate - 130 kBtu @ 4.2 gpm	40 Plate - 180 kBtu @ 4.2 gpm
Boiler Power Supply	See Boiler Specs	
Boiler Options	HydroShark [®] 24, 29, 36, 120	HydroShark® 199
Space Heating Panel Options	All 120 kBtu Panels	All 190 kBtu Units
Mixing Valve Temp. Range	85 - 150 °F	85 – 150 °F



DHW Integrator 180





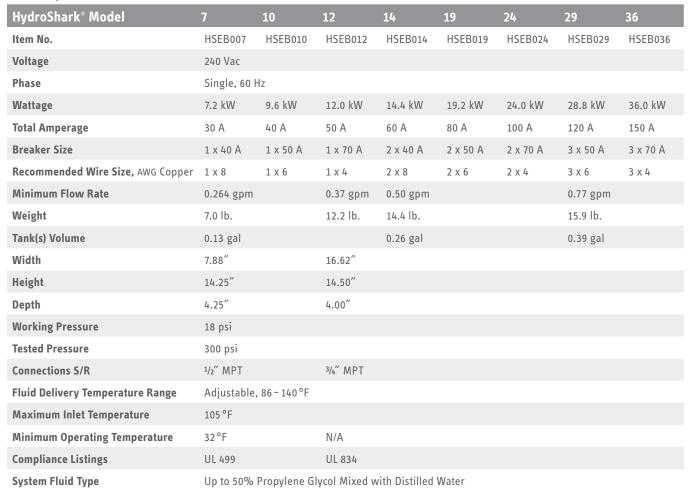


Compatible with these panels & accessories



	HydroShark® 7 – 19	HydroShark® 24 – 36
Master Panels	All Master Panels, All Master ECM F	Panels, All Pro Panels, All ECM Pro Panels
Zoning Panels	All HydroShark® Zoning Panels, All	HydroShark® ECM Zoning Panels
DHW Integrator Panels	N/A	DHW Integrator-120
Thermostat Options	Aube Thermostat, Lyric WiFi Therm	ostat

Tech Specs

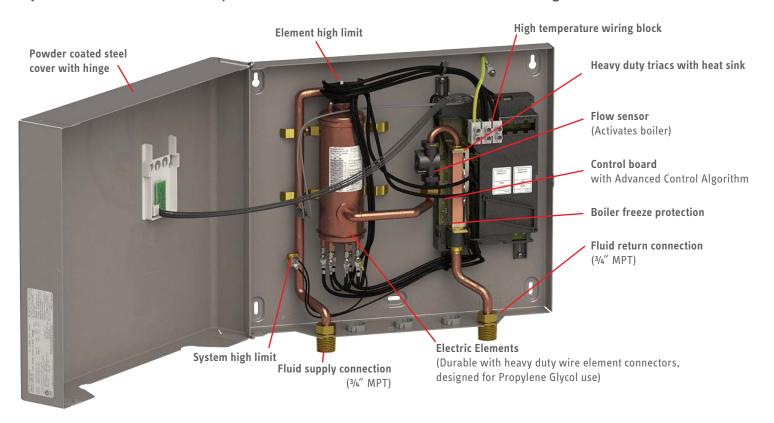


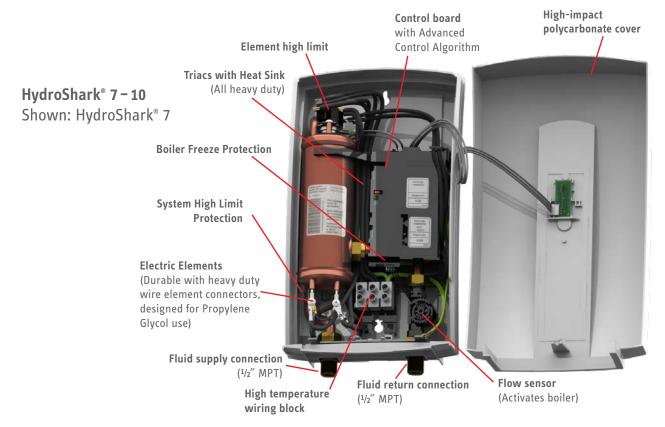


800.805.5384



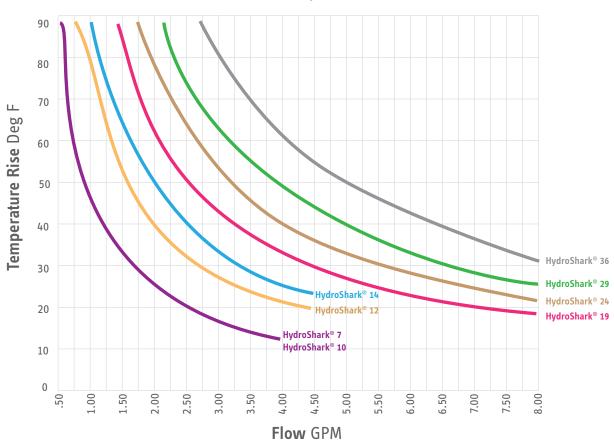
HydroShark® 12 - 36 Shown: HydroShark® 12. Other sizes have additional heating elements inside same case.

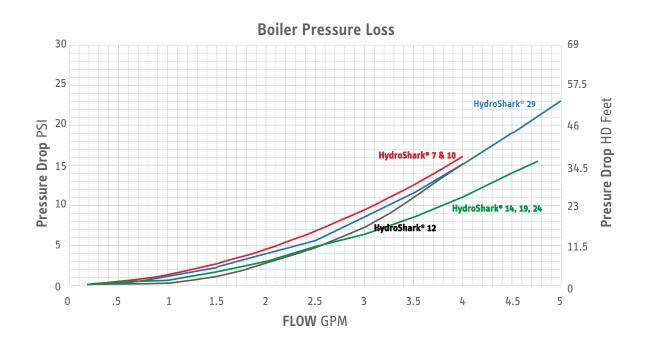








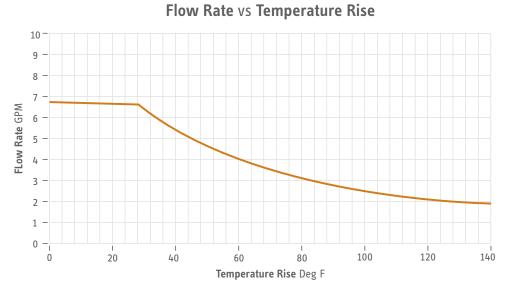






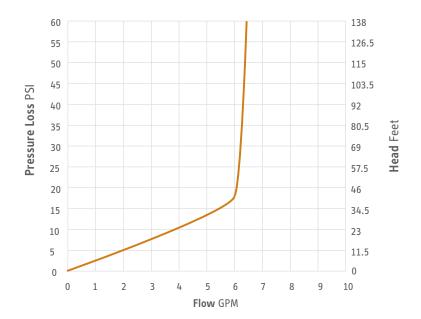
Hydro Shark. 115 Plus Non-Condensing Gas Boiler





Fluid Supply Power Supply Fluid Return Gas Supply

Boiler Pressure Loss













Hydro Shark. 115 Plus Non-Condensing Gas Boiler

Compatible with these panels & accessories



	HydroShark® 115 Plus LP / HydroShark® 115 Plus NG
Master Panels	All Master Panels, All Master ECM Panels
Zoning Panels	All HydroShark® Zoning Panels, All HydroShark® ECM Zoning Panels
DHW Integrator Panels	DHW Integrator-120
Gas Kit	Gas Kit ³/4″
Thermostat Options	Aube Thermostat, Lyric WiFi Thermostat

Tech Specs

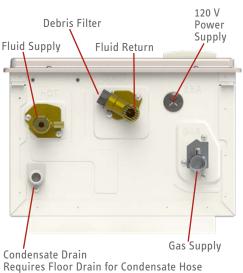
	HydroShark® 115 Plus LP	HydroShark® 115 Plus NG
Item No.	HSPB115	HSNB115
Fuel Type	Liquid propane	Natural gas
Boiler S/R Connections	3/4" NPT	
Gas Supply Connections	3/4″ NPT	
Energy Factor	0.83	
Flow Activated	0.75 gpm	
Temperature Range	99 - 140 ° F	
Weight	37.5 lb.	
Size	Wall Hung 20.5" H x 13.75" W x 9.125" D	
Ignition	Electronic	
Exchanger Capacity	0.2 gal.	
Modulating Output Range	15,000 - 115,000 Btu	
Gas Pressures	4" Min. – 10.5" Max. W.C.	4" Min10.5" Max. W.C.
Operating Pressure	18 - 25 psi	
Maximum Flow Rate	6.5 gpm	
Decibel Level	55 dB	
Clearance To Combustible Surfaces	Sides 3", Top 12", Bottom 12", Front 4", Back 1"	
Primary Heat Exchanger Material	HRS35 Copper	
Secondary Heat Exchanger Material	316L Stainless Steel	
Control Algorithm	Radiant	
Venting	Category III Stainless Steel - 3"	

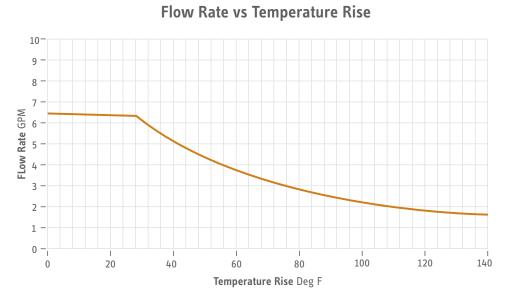


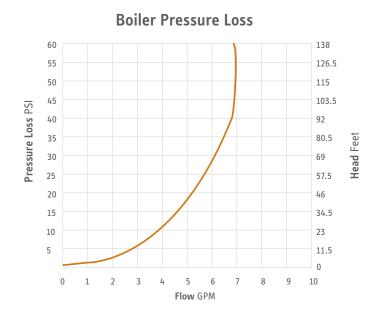


Hydro Shark. 120 Condensing Gas Boiler

















Hydro Shark 120 Condensing Gas Boiler

Pour Over Embedded Concrete

Compatible with these panels & accessories

	HydroShark° 120 LP / HydroShark° 120 NG
Master Panels	All Master Panels, All Master ECM Panels
Zoning Panels	All HydroShark® Zoning Panels, All HydroShark® ECM Zoning Panels
DHW Integrator Panels	DHW Integrator 120
Gas Kit	Gas Kit ½"
Thermostat Options	Aube Thermostat, Lyric WiFi Thermostat

Tech Specs

	HydroShark® 120 LP	HydroShark® 120 NG
Item No.	HSPB120	HSNB120
Fuel Type	Liquid propane	Natural gas
Boiler S/R Connections	3/4" MPT	
Gas Supply Connection	1/2" MPT	
Condensate Connection	1/2 MPT	
Energy Factor	0.93	
Minimum Flow Rate	0.75 gpm	
Controller Power Supply	120 Vac, 60 Hz, 2 A	
Temperature Range	100 - 140 °F	
Weight	44 lb.	
Size	Wall Hung 22.88" H x 13.88" W x 10.75.75" D	
Ignition	Electronic	
Exchanger Capacity	0.2 gal.	
Modulating Output Range	13,500 - 111,000 Btu	15,500 - 111,000 Btu
Gas Pressures	8" Min14" Max. W.C.	5" Min 10.5" Max. W.C.
Operating Pressure	18 – 25 psi	
Max. Flow Rate	6.6 gpm	6.5 gpm
Decibel Level	55 dB	
Clearance To Combustible Surfaces	Sides 3", Top 12", Bottom 12", Front 4", Back 1"	
Primary Heat Exchanger Material	HRS35 Copper	
Secondary Heat Exchanger Material	316L Stainless Steel	
Control Algorithm	Radiant	
Venting	SCH 40 PVC 3" or 4" Direct Vent	





100

80

Temperature Rise Deg F

120

140

Hydro Shark. 199 Condensing Gas Boiler

0

20

40



Debris Filter Fluid Return 120 V Power Supply Gas Supply

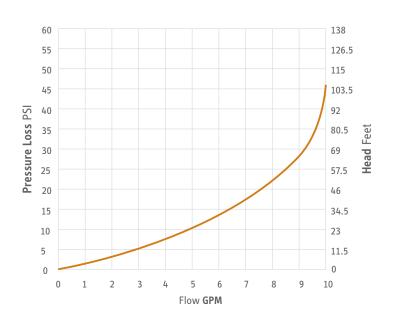
Requires Floor Drain for Condensate Hose



Flow Rate vs Temperature Rise

Boiler Pressure Loss

60





Drain (Secondary

Heat Exchanger)





Condensate Drain



Hydro Shark 199 Condensing Gas Boiler



Compatible with these panels & accessories

	HydroShark® 199 LP / HydroShark® 199 NG	
Master Panels	All Master Panels, All Master ECM Panels	
Zoning Panels	All HydroShark® Zoning Panels, All HydroShark® ECM Zoning Panels	
DHW Integrator Panel	DHW Integrator 180	
Gas Kit	Gas Kit ³/4″	
Thermostat Options	Aube Thermostat, Lyric WiFi Thermostat	

Tech Specs

<u> </u>		
	HydroShark° 199 LP	HydroShark [®] 199 NG
Item No.	HSPB199	HSNB199
Fuel Type	Liquid propane	Natural gas
Boiler S/R Connections	3/4" MPT	
Gas Supply Connection	3/4" MPT	
Condensate Connection	1/2" MPT	
Energy Factor	0.95	
Minimum Flow Rate	0.75 gpm	
Controller Power Supply	120 Vac, 60 Hz, 2 A	
Temperature Range	100-160°F (185°F Req. remote)	
Weight	59 lb.	
Size	Wall Hung 23.63" H x 17.75" W x 11.25" D	
Ignition	Electronic	
Exchanger Capacity	0.2 gal.	
Modulating Output Range	12,000-189,000 Btu	14,000-189,000 Btu
Gas Pressures	8" Min 14" Max. W.C.	5" Min 10.5"Max. W.C.
Operating Pressure	18-25 psi	
Max. Flow Rate	10 gpm	
Installation Type	Indoor	
Decibel Level	55 dB	
Clearance To Combustible Surfaces	Sides 2", Top 12", Bottom 12", Front 4"	
Primary Heat Exchanger Material	HRS35 Copper	
Secondary Heat Exchanger Material	316L Stainless Steel	
Control Algorithm	Radiant	
Venting	SCH 40 PVC 3" or 4" Direct Vent	



Stiebel Eltron Energy-Saving Products



Efficient electric wall-mounted heaters

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Fan

•



Convection



Stiebel Eltron's plant in Holzminden, Germany.

Stiebel Eltron has been a world leader in the development of advanced water heating technology for more than 100 years. Our pursuit of engineering excellence and high-quality manufacturing results in products fulfilling the highest expectations of performance and reliability. They are...Simply the Best.

Renewables

Solar hot water







Low carbon, renewable energy domestic hot water systems

1924

Sometimes a "little thing" leads to a whole lot more

Dr. Theodor Stiebel designed the first coil immersion heater and founded "ELTRON Dr. Theodor Stiebel" in 1924 in a small workshop on Reichenberger Strasse in Berlin, Germany.

Since then, Stiebel Eltron has manufactured 20 million tankless electric water heaters, holds hundreds of patents, has won more than fifty design awards, and continues to stay at the forefront of water heating technology.



Due to our continuous process of engineering and technological advancement, specifications may change without notice.

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