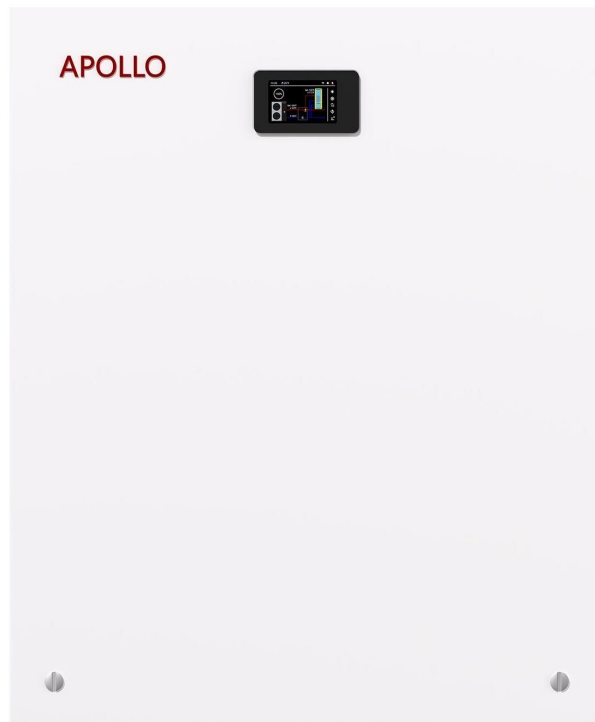


APOLLO

Hydro Smart Station



Data Sheet

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Why Choose the Apollo Hydro Smart Station?

The Apollo Hydro Smart Station is designed for homeowners and businesses who want: efficient, eco-friendly, and cost-effective heating and cooling—without the complexity of traditional systems. Here's what makes it the smart choice:

1. All-in-One Comfort

- Combines heating, cooling, and hot water in a single system, eliminating the need for separate boilers, AC units, or fossil fuel backups.
- Perfect for radiant floor heating, radiators, or fan coils—delivering consistent temperatures year-round.

2. Lower Energy Bills

- Uses advanced air-to-water heat pump technology to extract free heat from the air, cutting energy use by up to 60% compared to gas or electric resistance systems.
- Smart controls optimize performance based on weather and usage patterns, saving you money effortlessly.

3. Eco-Friendly Performance

- Zero fossil fuels, zero emissions. Reduce your carbon footprint while enjoying reliable comfort.
- Uses environmentally safe refrigerants and qualifies for green energy rebates (check local programs).

4. Quiet, Compact & Easy to Install

- Fits seamlessly in small spaces (like garages or utility rooms) and operates whisper-quiet—no noisy outdoor units.
- Compatible with existing hydronic systems, minimizing retrofitting costs.

5. Built for Reliability

- Engineered for harsh climates, with optional backup heat support for extreme cold days.
- Smart diagnostics alert you to maintenance needs, preventing costly surprises.

Key Features:

- **Simpler Controls:** User-friendly interface vs. complex competitor systems.
- **All-Indoor Design:** No outdoor unit required (unlike split heat pumps).
- **Flexible Backup Options:** Integrates with boilers or solar for added peace of mind.

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Model	Apollo Hydro Smart
Power Supply	220-240V AC 60hz
Pump Control	Heat Pump Controlled / External Call
Max. Water Pressure	150 psi
Operating Temp. Range	14 F to 194 F
Alerts/ Diagnostics	High/Low Pressure, Low Float Level
Service and Filling Ports	3/4" Male Hose Thread
Fluid Compatibility	Water Mixed with glycol (50%)
Zoning Capabilities	Zone Controller connection and 2nd load
Dimensions (L x W x H)	55-1/4" x 48" x 49-1/2"
Weight	400lbs

SERVICE AND WATER CONNECTIONS

Heat Pump Supply	1-1/4" NPT Native (external 1-1/4" to 1" adapter included)
Heat Pump Return	1-1/4" NPT Native (external 1-1/4" to 1" adapter included)
Load	1-1/4" NPT Native (external 1-1/4" to 1" adapter included)
Main	1-1/4" NPT Native (external 1-1/4" to 1" adapter included)
Flow Bypass	1" NPT Native
DHW Supply	1" NPT Native
DHW Return	1" NPT Native
Pool / AHU	1-1/4" NPT Native (external 1-1/4" to 1" adapter included)
Drain	1" NPT Native
Pressurization Input	3/8" NPT Native (External 3/8" barb fitting included)
Pressurization Output	3/8" NPT Native (External 3/8" barb fitting included)

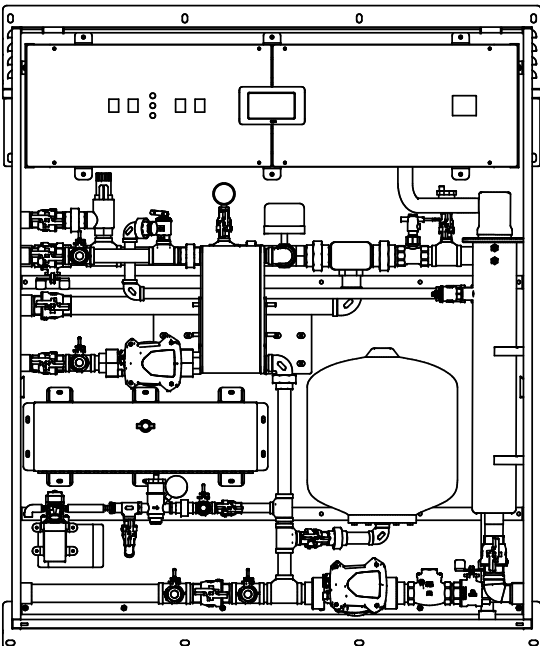
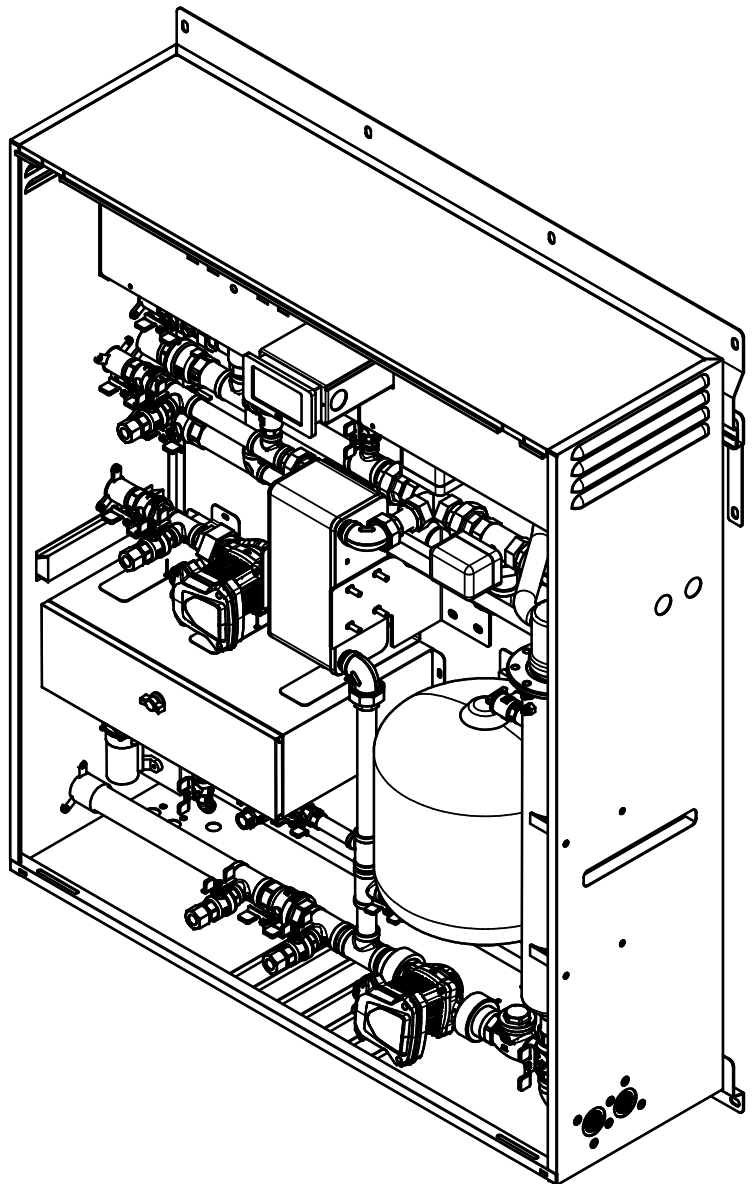
ELECTRICAL POWER AMPACITY

Full Load Ampacity (15kW)	62.5 A
Full Load Ampacity (10kW)	42 A
Full Load Ampacity (5kW)	21 A
Recommended breaker size	80 A
Recommended wire size	AWG 4 RHW, THN, TRTHW

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Hydro Smart Station

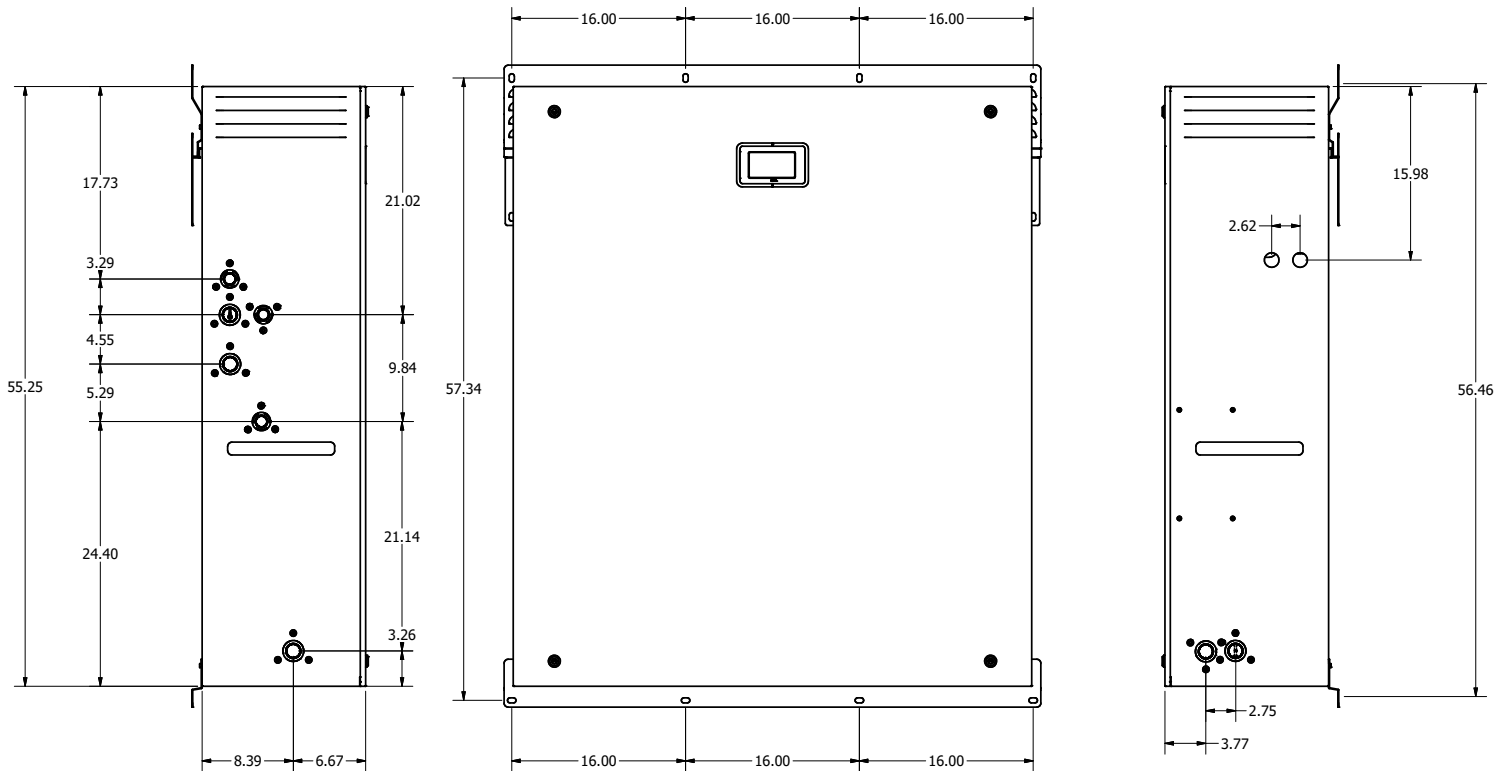
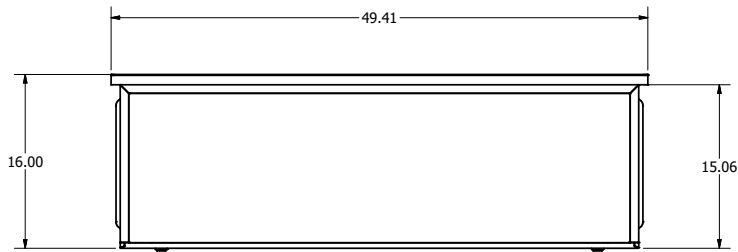
- Connections: 1" NPT
- SS 316L Plate heat exchanger 16.25 ft².
- High Efficiency Heat Pump circulator
- Stainless Steel DHW Pump circulator
- Backup electrical heater of 15 kW (2 Stages)
- Backup electrical heater with 4 working modes, no back up, 5kW, 10kW, 15kW
- Automatic pressurization system with pressure alarms
- Wi-Fi Color touchscreen controller
- Expansion tank volume: 7.2 Gal
- Purge and fill valve assembly
- Double duty ports (air vent, gauge)
- Quick connect wiring box with external DHW tank sensor
- Quick connection with internal communication device compatible with every Apollo Heat Pump including both air to water units and geothermal units.



Fully-integrated Hydronic System:

A seamless solution that unifies all your heating and cooling requirements into one efficient, streamlined package

- Able to communicate with the Apollo Zone Controller
- Pressurization System integrated
- Easy Maintenance, isolation valves in each of the main elements of the unit.
- Filling Station



Power Requirements:

- AWG 4 RHW, THWN, TRTHW
- 80A Breaker (for full size back up heater)
- 220Vac 60hz

Reliable Technology:

Enjoy peace of mind with our comprehensive 5-year warranty, ensuring long-lasting performance.

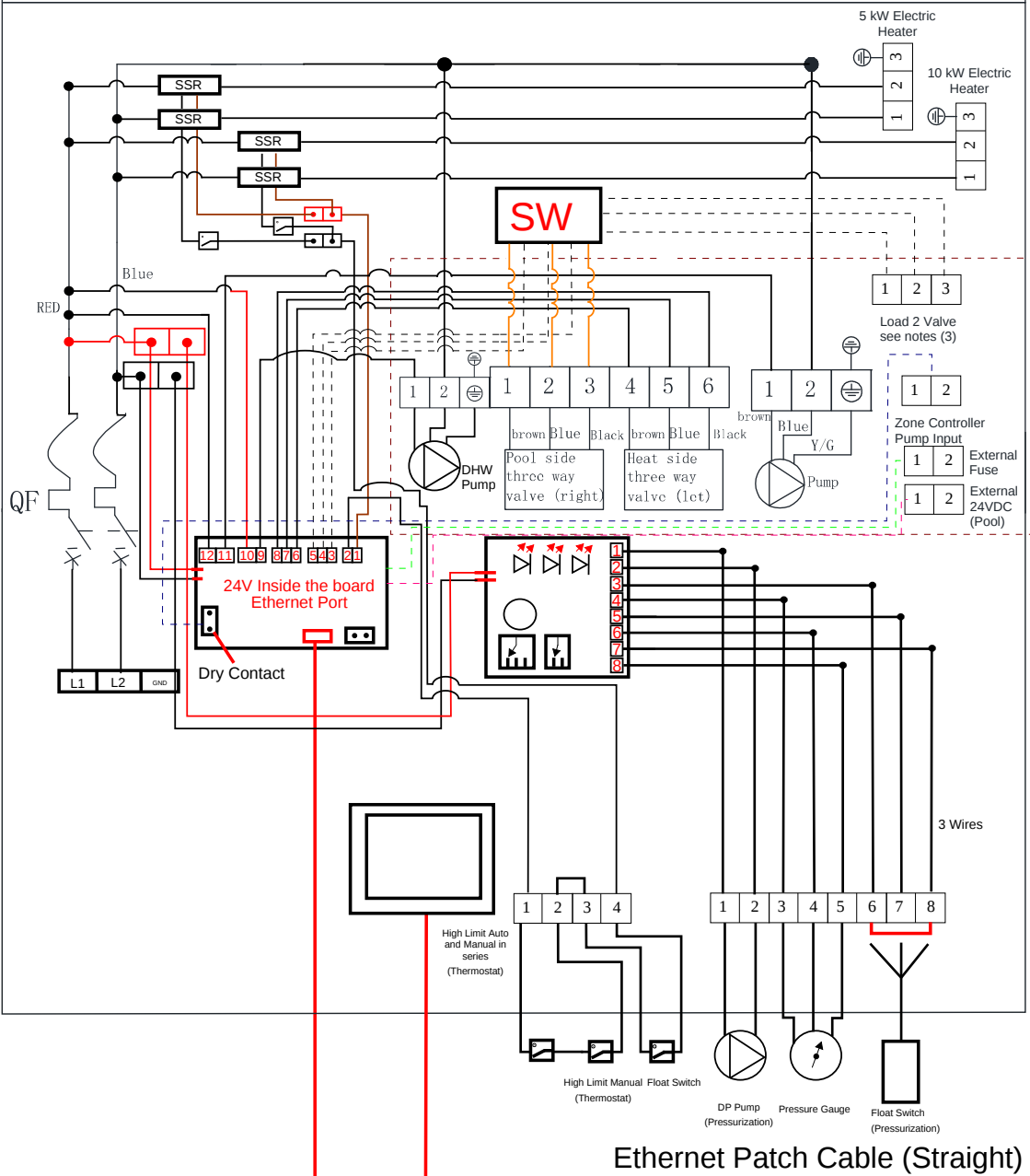
Simple Maintenance:

Purge and fill valve assembly facilitates easy system maintenance and service.

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Heat Pump Station

Wiring diagram



Ethernet Patch Cable (Straight)

COM Device (Receiver terminals functions)
9-10 Pump Relay SPST 1NO1NC COIL: 24V1A Terminal Rate: 240V 20A
8-7-6-5 DHW Relay DPST 2NO2NC COIL: 24V1A Terminal Rate: 240V 20A, bypass between 7 and 5
4-3 Pool Relay SPST COIL: 24V1A Terminal Rate: 240V 20A
2-1 Electric Heater 24V contact signal for solid state relay

Notes:
(1) Pump terminals will include a 5A Fuse
(2) Bypass Between 6 and 8 to keep the unit pressurization switch in manual mode, before installing the Float Switch
(3) In order to use this working mode, Pool terminals in the Heat Pump should be disconnected

Pressurization System
1 PUMP + IN the ON mode this pin out 24V
2 PUMP - Connected to the negative end of the pump
3 Float Switch Positive, IN the auto mode this pin out 24V.
4 Press Switch Positive, Connected to the common end of the pressure gauge
5 Float Switch Lower Level input, when input high the low level alarm will on
6 Press Switch high input, when input high the high press alarm will one
7 Float Switch high input, Connect to Pump+ on the pcb.
8 Press Switch lower input, when input high the low press alarm will one