



HP® 1020P LIQUID PHASE ADSORPTION SYSTEMS (ASME CODE)

Applications

The HP® 1020P Adsorption System is designed to remove dissolved organic contaminants from water. This system is cost effectively used in applications including:

- Groundwater remediation
- Wastewater filtration
- Tank rinse water treatment
- Pilot testing
- Underground storage tank clean up
- Leachate treatment
- Dechlorination
- Spill cleanup
- Food grade
- Drinking water

Installation, Startup and Operation

The HP 1020P system is shipped as separate components—two adsorbers and a piping skid module. The piping module allows the adsorbers to operate in series or parallel configurations. The system requires minimal field assembly and site connections.

Evoqua can provide a total service package that includes utilizing OSHA trained personnel providing on-site carbon changeouts, packaging and transportation of spent carbon for recycling at our RCRA permitted reactivation facilities, where the contaminants are thermally destroyed.

We can provide instructions on sampling the spent carbon and completion of our spent carbon profile form. Spent carbon acceptance testing can be performed at our certified laboratory.

When requested, a certificate of reactivation will be issued.

BENEFITS AND DESIGN FEATURES:

- ASME code section VIII (stamped), carbon steel vessel.
- SSPC-SP5 surface preparation, NSF approved Plasite vinyl ester lining; rust preventative epoxy/urethane exterior.
- Uniform, continuous internal lining flange to flange
- Modular design for easy handling and installation.
- Internal spray nozzle ensures complete removal of all spent carbon.
- Schedule 40 carbon steel pipe, supplied with cast iron gear/wheel operated butterfly valves with EPDM seats.
- Carbon slurry piping made from schedule 10 304 stainless steel.
- In-bed water sample collection ports —25-50-75% bed depths.
- Top and side manway allows for easy internal inspection.

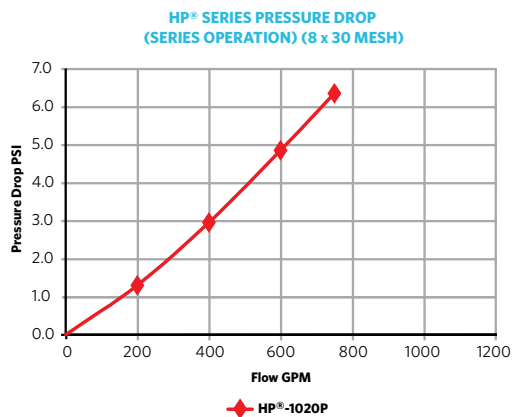
SPECIFICATIONS/TYPICAL PROPERTIES

HP® 1020P

Dimensions (each adsorber - dia. x sidewall height)	120" x 96"
Overall Height	17' 10"
System Length	26'
System Width	12'
Process Piping	8"
Flanged Inlet/Outlet (150# ANSI)	8"
Carbon Fill/Discharge	4"
Flanged Backwash/Vent	8"
Manway (dia., side shell location)	20"
Manway (top)	14" x 18"
Utility Water/Air (hose connection) ¹	2"
Interior Coating	Vinyl Ester
Exterior Coating	Urethane
Empty System Weight (lbs.)	38,500
Carbon Weight/Vessel (lbs.)	20,000
Operating Weight (lbs.)	170,000
Design Pressure (PSIG) @ 140°F	125
Max. Flow (GPM) Series/Parallel	750/1,500
Backwash Rate (GPM) (8 x 30 mesh @ 55°F)	710

(1) Kamlock type

For detailed specifications or dimensional information or drawings, contact your local Evoqua sales representative.



Safety Note: Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.

Evoqua makes no warranties as to completeness of information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products. All information presented herein is believed reliable and in accordance with accepted engineering practice.



210 Sixth Avenue, Suite 3300, Pittsburgh, PA 15222

+1 (866) 926-8420 (toll-free) +1 (978) 614-7233 (toll) www.evoqua.com

HP is a trademark of Evoqua, its subsidiaries or affiliates, in some countries.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2017 Evoqua Water Technologies LLC Subject to change without notice WS-HP102-DS-0717