

ORDINANCE NO. ⁴¹⁶ ~~11502-2026~~ 2026

INTRODUCED BY: MAYOR ORCUTT

P/C
CA Prior 9/15/24
1st R 9/15/24
2nd R _____
3rd R _____
B/C _____

AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A CONTRACT WITH METROPOLITAN POOL SERVICE FOR THE REPLACEMENT AND INSTALLATION OF EQUIPMENT FOR THE INDOOR SPAS AT 17400 HOLLAND ROAD, APPROPRIATING THE NECESSARY FUNDS THEREFORE, AND DECLARING AN EMERGENCY.

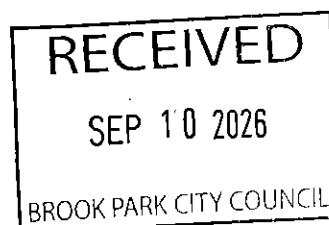
WHEREAS, the City has determined that improvements to the indoor spa facilities located at 17400 Holland Road are necessary to maintain safe and reliable operation of the recreational facility; and

WHEREAS, Metropolitan Pool Service has submitted a proposal dated August 5, 2026, to furnish and install new chemical controllers, chemical feed pumps, filters, circulation pumps, heaters, drain covers, plumbing, electrical modifications, and related improvements for the indoor spas; and

WHEREAS, the total contract amount for said work is Seventy-Eight Thousand Dollars (\$78,000.00), as set forth in Exhibit "A" attached hereto and incorporated herein by reference; and

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF BROOK PARK, COUNTY OF CUYAHOGA, STATE OF OHIO:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a contract with Metropolitan Pool Service for the replacement and installation of equipment and related improvements for the indoor spa facilities located at 17400 Holland Road in accordance with the proposal attached as Exhibit "A."



SECTION 2: The scope of work shall include, but not be limited to:

1. Furnishing and installation of two CAT 4000 chemical controllers;
2. Furnishing and installation of four Stenner 45-M5 chemical feed pumps;
3. Furnishing and installation of two Pentair CCP 320 filters;
4. Furnishing and installation of four Pentair VS-SVRS pumps;
5. Furnishing and installation of two Coates 11KW three-phase spa heaters;
6. Furnishing and installation of four 12" x 12" VGB drain covers;
7. Removal and reconstruction of the existing equipment decking;
8. Relocation and updating of electrical panels for the new equipment;
9. Installation of new plumbing and valves in the pump room; and
10. Removal of all debris associated with the project.

SECTION 3: The Finance Director is authorized and directed to appropriate and disburse funds in an amount not to exceed \$78,000.00 for said project from Fund 552 Natatorium Improvement Fund

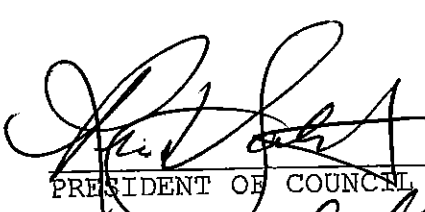
SECTION 4: Payments shall be made pursuant to the contract documents and approved project milestones as set forth in Exhibit "A." and paid from Fund

SECTION 5: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of Council and that all deliberations of this Council and any committees that resulted in such formal action were conducted in meetings open to the public in compliance with applicable law.

SECTION 6: This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public health, safety, and welfare and for the timely completion of improvements to the City's indoor spa facility; therefore, this Ordinance shall take effect immediately upon its passage and approval by the Mayor.

PASSED:

September 15, 2026


PRESIDENT OF COUNCIL

ATTEST:

Carol Johnson
Clerk of Council

APPROVED:


MAYOR

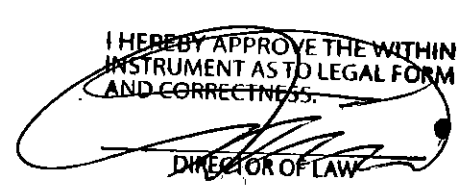
9/15/26
DATE

CERTIFICATE

Carol Johnson, Clerk of Council, of the City of Brook Park, Ohio, do hereby certify that the foregoing is a true and accurate copy of Ordinance Resolution No. 11563-2026 passed on the 15 day of September 2026 by said council.

Carol Johnson
Clerk of Council

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS.


DIRECTOR OF LAW

	Yea	Nay
Gonzalez	☒	☐
Mencini	☒	☐
Roberts	☒	☐
Scott	☒	☐
McCorkle	☒	☐
Poindexter	☒	☐
Dufour	☒	☐



Metropolitan Pools

Metropolitan Pools is a Division of Metropolitan Pool Service, Inc.

**Serving the Finest Clubs and Communities
Since 1961**



City of Brookpark
17400 Holland Rd.
Brookpark, Ohio

08/05/2026

Location: Indoor spa

Scope of work: Equipment

1. Provide and install two cat 4000 chemical controllers.
2. Provide and install four Stenner 45-m5 chemical feed pumps.
3. Provide and install two Pentair ccp 320 filters.
4. Provide and install four Pentair vs-svrs pumps.
5. Provide and install two coats 11KW 3 phase spa heaters.
6. Provide and install four 12x12 vgb drain covers.
7. Remove and rebuild the decking that the systems are mounted to.
8. Move the existing electrical panels to the wall and update for the new equipment.
9. Provide and install all new plumbing and valves in the pump room.
10. Remove all debris.

The above will be for \$ 78,000.00

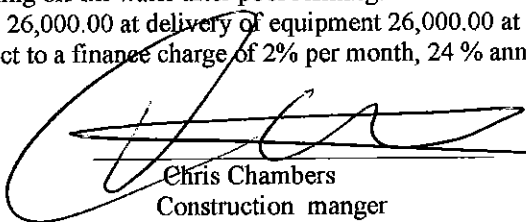
Payment schedule. \$ 26,000.00 down.
\$ 26,000.00 delivery of equipment.
\$ 26,000.00 at completion.

If accepted please return a signed copy of this proposal with any authorized signature and your down payment we will proceed accordingly.

Conditions and terms:

1. Owner agrees that Metropolitan Pool Service, its employee's or representatives will not be responsible or liable for flotation of pool shell, which may be caused by heavy rains, floods, unusual surface drainage, or underground springs.
2. Owner agrees to be responsible for turning off fill water after pool refilling.
3. Payment is to be made 26,000.00 down 26,000.00 at delivery of equipment 26,000.00 at completion . Unpaid balance after 30 days will be subject to a finance charge of 2% per month, 24 % annually.

Owner's Representative


Chris Chambers
Construction manger

3427 Brookpark Road - Parma, Ohio 44134
Phone: 216/741-9451
Fax: 216/741-1809

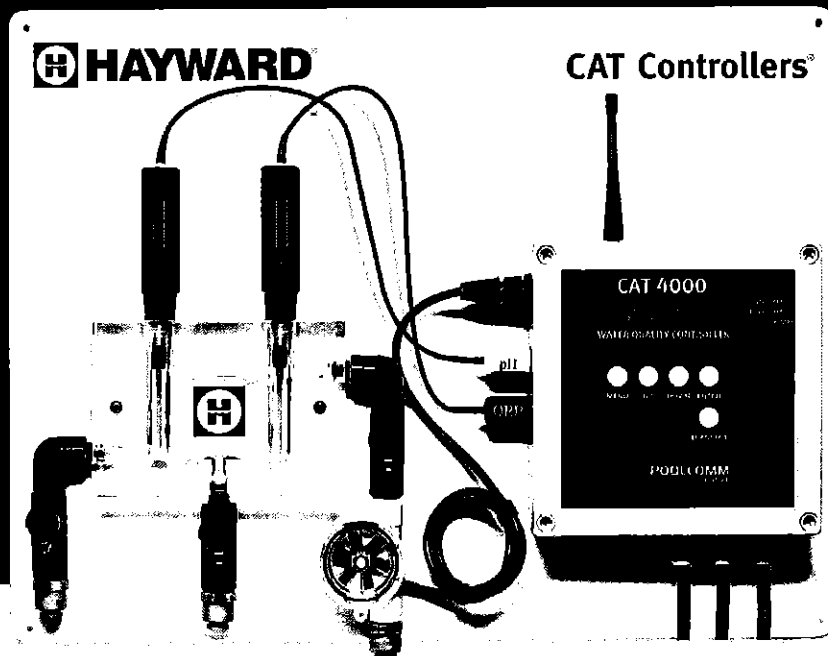
7499 Leavitt Road - Amherst, Ohio 44001
Phone: 440/985-1500
Fax: 440/985-1501

Website: www.metropools.com



CAT 4000® Series

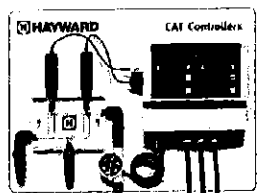
Wireless Water Chemistry Controller



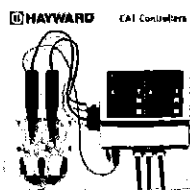
WATER CHEMISTRY CONTROL MADE EASY.

Easy, cost saving water quality management

Using the CAT 4000 system, you can easily log onto PoolComm® to activate your wireless account and begin monitoring your water quality. Using your personal PoolComm account, you can view water quality data, print charts, analyze graphs, customize your settings and receive alarm notifications via email or SMS.



PROFESSIONAL PACKAGE



STANDARD PACKAGE



MOBILE MANAGEMENT OPTIONS

Works with PoolComm to remotely monitor and control commercial water quality settings and readings from any web-enabled mobile device, anywhere in the world.



RELIABLE REMOTE SYSTEM ACCESS

Save time and money with wireless access via cellular and Wi-Fi, eliminating the need for dedicated analog phone lines. CAT 4000 offers simple, reliable wireless system access 24/7.



SIMPLE INSTALLATION WITH POWERFUL RESULTS

Easy install, works with existing equipment. View, print, and receive water quality data and alarms via email or text after effortless PoolComm setup.

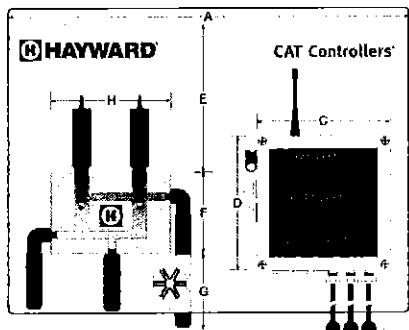


TECHNICAL SPECIFICATIONS

Enclosure	7" x 7" x 2.3" glass-filled polycarbonate
Interface	UV-protected Lexan membrane switch
Certifications	UL94-5V (UL746 C5), NEMA type 1, 4, 4X, 6, 12, 13 NSF / ANSI Standard 50
Display	2 x 20 character vacuum fluorescent
Keys	Embossed with stainless tactile domes
Display Range	pH 1.0-9.9 / ORP 5-995 mV
Flow Cell	Standard Pack-Injection Molded Flow Cell-AC063 Professional Pack-Acrylic Flow Cell-AC075
Backboard	CNC machined and beveled PVC
Flow Sensor	Standard Pack-Magnetic Float Style-CAX-20206 Professional Pack-Rotary Flow Sensor-CAX-20203 Optional-Digital Flow Sensor (DF010) & Saddle Clamp
Power Input	USA - 15 Amp, 120 VAC 60 Hz Intl. - 10 Amp, 230 VAC 50/60 Hz*
Communications	Cellular (Fees Apply) or Wi-Fi (Free) Based
Internet URL:	poolcomm.com
Mobile App	Available for iPhone® and Android™ devices
Latency	< 5 minutes per path
Alarm Format	Email, text message, visual, audible
Safety Systems	pH low and high alarms ORP low and high alarms pH priority feed Supplemental feed modes pH and ORP overfeed timeout Flow alarms pH Interlock
Set Point Range	pH 7.0-8.0 ORP 200-995 mV
Control Accuracy	pH +/- 0.1 pH ORP +/- 5.0 mV
Alarm Ranges	pH - low 6.0 pH / high 9.0 pH ORP - low 200 mV / high 995 mV
Mode Selections	pH automatic / off / manual for 30 minute direct feed ORP automatic / off / manual for 30 minute direct feed pH feed - acid or base ORP mode - auto / set pH mode - auto / set / calibrate
Optional Equipment	Optical level sensors Digital flow rate sensor Rotary flow sensor Remote dome antenna
Outputs	pH feed, 4 Amp, 115 VAC ORP feed, 4 Amp, 115 VAC AUX - 1 - dry contact, 1 Amp max
Warranty	5-year limited warranty on controller 2-year warranty on sensors 1-year warranty on wearable items

CAT 4000 SYSTEMS

PART NUMBERS	DESCRIPTION	CARTON QTY	CARTON WEIGHT
CAT-4000-WIFI	CAT 4000® Standard Package** with Wi-Fi	1	15 lbs.
CATPP4000WIFI	CAT 4000 Professional Package† with Wi-Fi	1	20 lbs.
CATPP4000CELL	CAT 4000 Professional Package† with Cell	1	20 lbs.
CATPP4000WIFIAU	CAT4000 Professional Package† with WiFi TRANCVR with GOLD TIP ORP (Salt Application)	1	20 lbs.



DIMENSIONS

A	21"
B	16"
C	8.25"
D	4.5"
E	8"
F	16"
G	7"
H	3.125"

ACCESSORIES & OPTIONAL EQUIPMENT

PART NUMBER	DESCRIPTION	CARTON QTY	CARTON WEIGHT
HCSC110	Saline C® 11.0 Salt Chlorine Generator	1	50 lbs.
HCSC60	Saline C® 6.0 Salt Chlorine Generator	1	25 lbs.
HCSJBOX-BU	Sanitizer Back-up Junction Box	1	3 lbs.
PTC15	Variable Speed 50 GPD Chemical Feed Pump and 15 Gallon Tank Combo Kit	1	15 lbs.
PTC30	Variable Speed 50 GPD Chemical Feed Pump and 30 Gallon Tank Combo Kit	1	35 lbs.
AC004	Standard CO ₂ System	1	7 lbs.
AC005	High Output CO ₂ System (100,000 Gallons+)	1	7 lbs.
AC006	CO ₂ Auto Tank Switch Over System	1	6 lbs.
AC015	Valve-Brass 110 VAC, 3/4" IN (Erosion Feeder)	1	3 lbs.



CO₂ FEEDER



pH/Cl CHEMICAL
FEED SYSTEMS



SALINE C® SYSTEM

*For international version and part number information, please contact your local Hayward Sales Representative

**Standard Package includes Molded Flow Cell and Float-Style Flow Sensor

†Professional Package includes Machined Acrylic Flow Cell and Rotary Flow Sensor

» haywardcommercialpool.com » 1-800-HAYWARD

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INNOVATION MADE EASY.

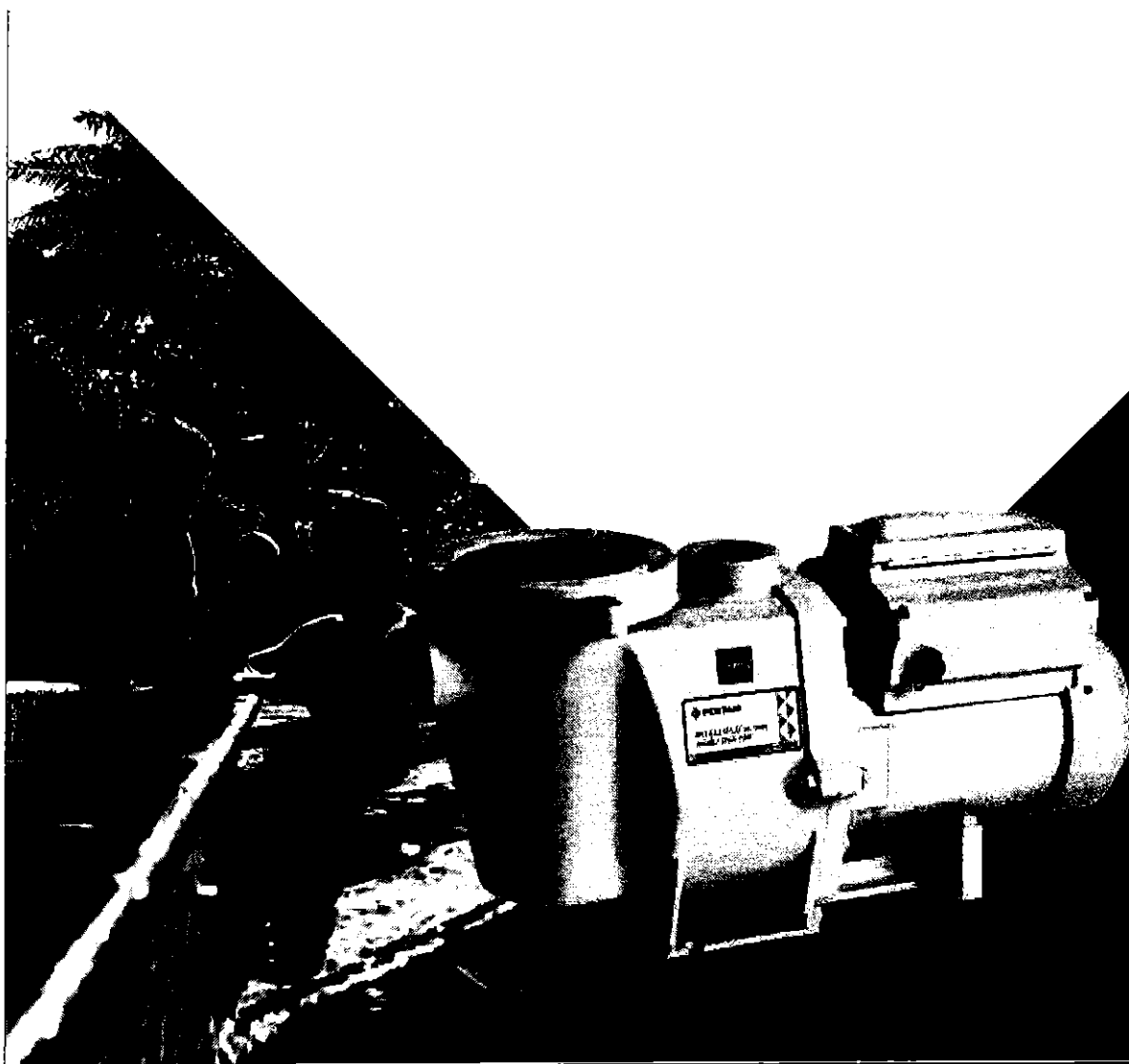


INTELLIFLO® VS+SVRS

INTELLIFLO® VS+SVRS

VARIABLE SPEED PUMP

The smart choice for savings and added protection.



PENTAIR.COM

eco select®

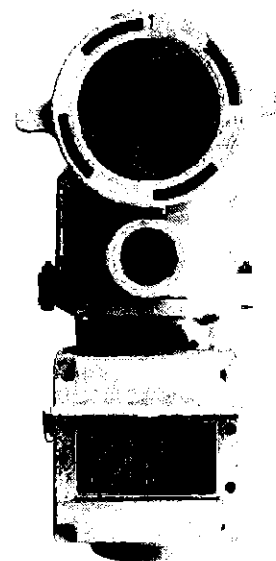




ADDED SAVINGS. GREATER PEACE OF MIND.

**IntelliFlo® VS+SVRS Pump—trusted by
parents who want greater peace of mind.**

The IntelliFlo VS+SVRS Variable Speed Pump was the first pump developed with an integrated Safety Vacuum Release System (SVRS). This system features a built-in controller and proprietary software designed to help detect a suction or drain blockage and automatically stop the pump, providing an added layer of protection against entrapment when used in conjunction with VGB-approved drain covers. The IntelliFlo VS+SVRS Pump complies with the current ASME A112.19.17 standard for Safety Vacuum Release Systems (SVRS).*



INSTALLED IN MORE POOLS WORLDWIDE THAN ANY OTHER VARIABLE SPEED PUMP.

IntelliFlo innovations add up to greater efficiency, energy savings and universal appeal.

IntelliFlo Variable Speed Pumps started an energy-savings revolution. No wonder they're the world's best-selling variable speed pumps. And, the IntelliFlo VS+SVRS just got better. With energy savings of up to 90%** versus conventional pumps, a new easy-to-read rotatable keypad and advanced programming capabilities, pool pros and pool owners love them even more. Plus, they have a record of proven field reliability that no competitor can match.

Part number: 011057
WEF 6.9 THP 3.95

FEATURE RICH AND AUTOMATION READY TO GIVE YOU OPTIMIZED PERFORMANCE, EVEN REMOTELY.†

Designed to handle your pool's automation needs and still deliver maximum energy efficiency.

To meet your pool's needs today—and be ready for upgrades tomorrow—there's no better choice than the IntelliFlo VS+SVRS Variable Speed Pump. This advanced pump can be programmed to deliver the right flow required for filtration, water features, spas and other equipment. With the IntelliFlo VS+SVRS, you can add equipment and features, or change them, without reducing pump performance, all while still providing maximum energy efficiency.

*Standard for residential and commercial swimming pool, spa, hot tub and wading pool suction systems, as required by the Virginia Graeme Baker Pool and Spa Safety Act.

**Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000-gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump RPM, plumbing size and length, pump model, service factor and other hydraulic factors.

Remote access via a computer, smartphone or mobile digital device requires the separate purchase of a ScreenLogic® Interface.†

†The Pentair ScreenLogic Interface for MACINTOSH® DESKTOP COMPUTERS IS NOT COMPATIBLE with the recently released 64-bit-speed Macintosh CATALINA Operating System. Customers who update their Mac desktop computers to the new Catalina MacOS® will no longer be able to use the ScreenLogic Desktop Interface. Please NOTE: This change DOES NOT AFFECT iPhone®, iPad® mobile digital devices, Amazon Echo® or any other ScreenLogic Interfaces. Only MAC® computer desktop users with ScreenLogic who update to the new Catalina OS will be affected.



Energy savings of up to 90%.**
Moves water more efficiently at lower speeds.

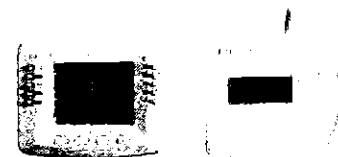
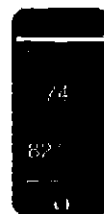


More environmentally responsible.
Dramatically reduces electricity consumption.



Runs on the same type of electric motor as a hybrid car.
The advanced permanent magnet motor is far more efficient than single- and two-speed pumps.

The IntelliFlo VS+SVRS Pump interfaces with Pentair Automation Systems to give you the convenience of mobile digital device control.†



INTELLIFLO® VS+SVRS

VARIABLE SPEED PUMP

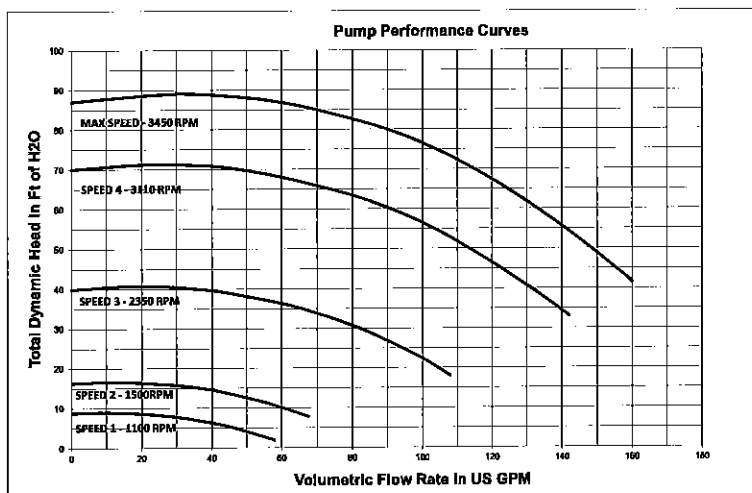


SUPER EFFICIENT—AND SO QUIET YOU CAN HEAR THE SAVINGS PILE UP.

Reliability and savings. That's why pool builders, retailers and service professionals count on Pentair.

Quiet means you enjoy a more relaxing, satisfying pool and spa experience, because the IntelliFlo® VS+SVRS Pump is the quietest pump on the planet. While its Totally Enclosed Fan-Cooled (TEFC) motor helps to reduce noise and prolong pump life, its reliable variable speed technology allows it to operate so efficiently and quietly that at lower speeds you might not realize it's running.

PERFORMANCE CURVES



NOTE: The chart above demonstrates performance rates at factory preset speeds of 3450 RPM, 3110 RPM, 2350 RPM, 1500 RPM and 1100 RPM.



The IntelliFlo VS+SVRS Variable Speed Pump has earned the Eco Select® brand distinction as one of the greenest and most efficient choices from Pentair.

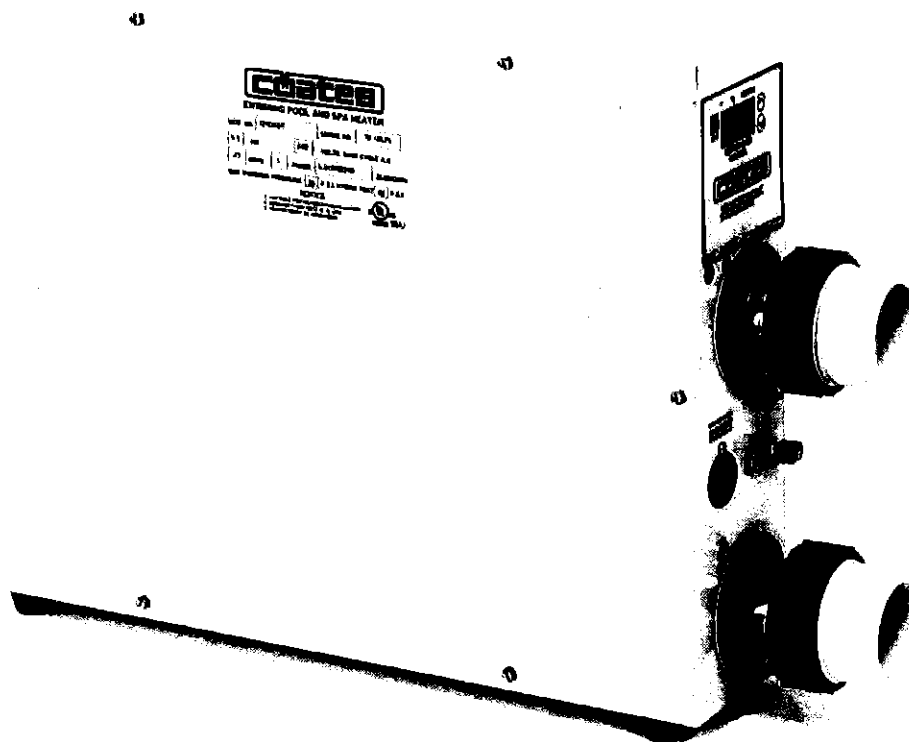


ENERGY STAR® certified SuperFlo VS Pumps from Pentair meet strict energy efficiency criteria set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. These pumps save money, reduce energy use and protect the environment.

1620 Hawkins Ave | Sanford, NC 27330 | United States | 800.831.7133 | pentair.com

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ST SERIES

5.5kW to 11kW

Residential spas between 250 and 600 gallons.



FILTERS

CLEAN & CLEAR[®] PLUS

Cartridge Filter

Sparkling clear water the easy way.

The Clean & Clear Plus Filter combines dependable filter design with optimal performance. Our four-cartridge design provides optimal filter surface area to help increase dirt-retention capacity and maximize time between cleanings.

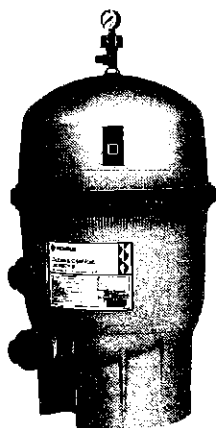
We've optimized the cartridge surface material to block and aid in capture greater amounts of solids. Durable materials extend cartridge life and performance that keeps pools clearer and sparkling.

To service the filter, reference the proper procedures in the video or contact a pool professional—Pentair.com/cleanandclearplus



pentair.com/cleanandclearplus

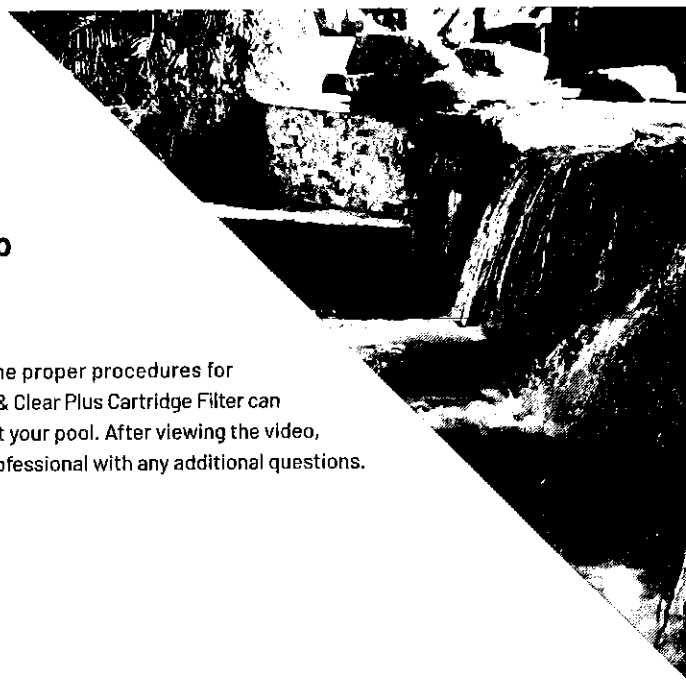
CLEAN & CLEAR® PLUS CARTRIDGE FILTER



Scan for a step-by-step
how-to video.



Understanding the proper procedures for servicing a Clean & Clear Plus Cartridge Filter can prevent injuries at your pool. After viewing the video, contact a pool professional with any additional questions.



KEY FEATURES

Single-piece base and tank

Fiberglass-reinforced polypropylene provides strength, corrosion resistance and stability.

1½-inch drain

The easy-to-access drain supports drainage for winterization.

2-inch plumbing

For maximum flow and faster water cleaning.

Four-cartridge design

Traps dirt and extends time between cleanings.

Internal air bleed

Continuous internal air bleed helps prevent air buildup to keep the filter operating at peak performance.

Clamp ring access

Allows access to internal parts.

Model Number	Filter Area Sq. Ft.	Vertical Clearance*	Filter Diameter	Flow Rate GPM ² Residential	Turnover Capacity-Res. (Gallons)		
					8 hrs.	10 hrs.	12 hrs.
CCP240	240	56"	21.5"	90	43,200	54,000	64,800
CCP320 ¹	320	62"	21.5"	120	57,600	72,000	86,400
CCP420 ¹	420	68"	21.5"	150	72,000	90,000	108,000
CCP520 ¹	520	74"	21.5"	150	72,000	90,000	108,000

¹ Certified to NSF/ANSI Standard 50.

² Residential rate .375 GPM per sq. ft. of filter area.



TRADEGRADE

The TradeGrade family of products is exclusively made for and sold by the world's most demanding pool professionals.

Certified to
NSF/ANSI Standard 50

400 Regency Forest Dr | Cary, NC 27518 | United States | 800.831.7133 | pentair.com

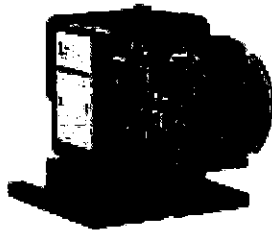
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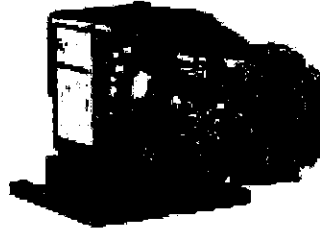
PI-131 06/2023

45 Pump Series description

Single Head Fixed Output



Single Head Adjustable Output



Output Range
0.2-50 gpd at 25 psi
0.2-22 gpd at 100 psi

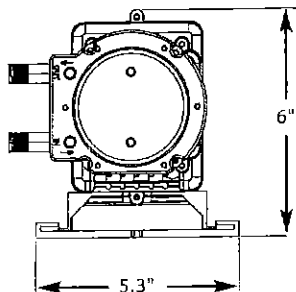
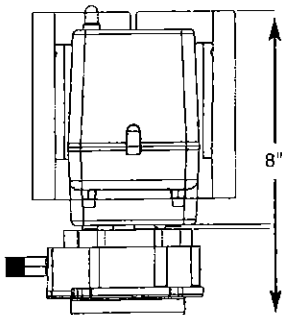
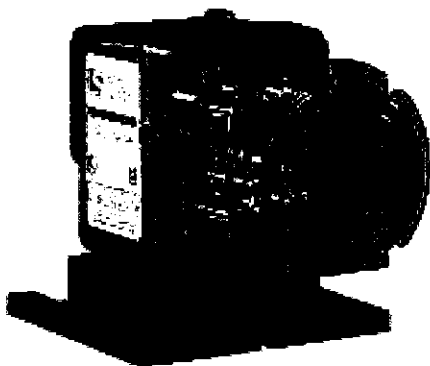
- 26 rpm gear motor
- Mechanical dial ring allows outputs adjustable in 2.5% increments
- 6 interchangeable tubes

FEATURES	BENEFITS
Peristaltic design	Self-priming, won't lose prime Can run dry without damage Chemicals are metered without exposure to air Pumps gaseous solutions
Pump tubes	Accept a variety of chemicals
Pump head	Unlversal with all Stenner pumps
Snap fit modular subassemblies	Quick serviceability without tools
Interchangeable pump tubes and subassemblies	Convert one Classic model to another
Mechanical feed rate control	Reproducibility within 2% of outputs
Manufactured since 1957	Time tested

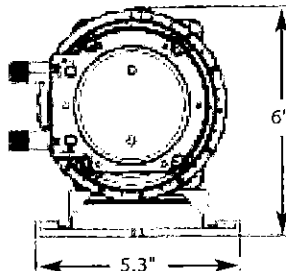
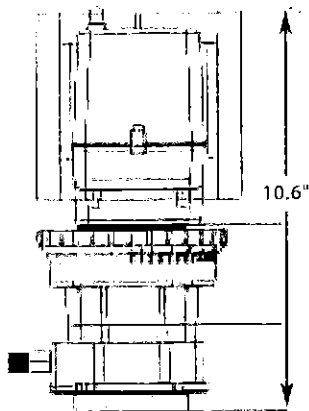
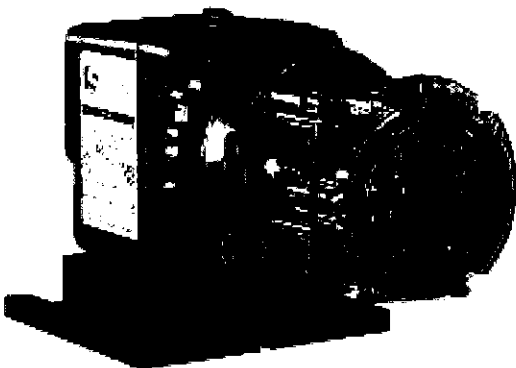
45 Pump Series dimensions

Output Range
 0.2–50 gpd at 25 psi
 0.2–22 gpd at 100 psi

Single Head Fixed Output



Single Head Adjustable Output



NOTE: Not all products have agency approval. Please call factory for more information.

45 Pump Series materials of construction

All Housings* Lexan® Polycarbonate Plastic

Peristaltic Tube** Santoprene® FDA Approved
Check Valve Duckbill

Peristaltic Tube† Tygothane® FDA Approved

Check Valve Duckbill†† Pellathane®

Suction/Discharge Tubing LDPE Polyethylene-NSF/FDA Approved
Ferrules (1/4" & 6 mm)

Tube Fittings Type 1 Rigid PVC-NSF Listed
Connecting Nuts
Check Valve Fittings
Weighted Suction Line Strainer

All Fasteners Stainless Steel

*Lexan® is a registered trademark of General Electric. Consult General Electric for chemical resistance of Lexan®.

**Santoprene® is a registered trademark of Advanced Elastomer System. Refer to the chemical resistance guide in this catalog for pump tube material compatibility.

†Tygothane® is a registered trademark of Saint-Gobain Performance Plastics. Refer to the chemical resistance guide in this catalog for pump tube material compatibility.

††Pellathane® is a registered trademark of The Dow Company.

Accessory Kit Contents

3 Connecting Nuts 1/4" or 3/8"
3 Ferrules 1/4" & 6 mm Europe OR 2 Ferrules 3/8"
1 Injection Check Valve 100 psi OR 1 Injection Fitting 25 psi
1 Weighted Suction Line Strainer 1/4" or 3/8", 6 mm Europe
1 20' Roll of Suction/Discharge Tubing 1/4" or 3/8" White or UV Black
OR 6 mm White Europe
1 Spare Pump Tube
1 Mounting Bracket
1 Installation and Maintenance Manual

45 Pump Series outputs



Single Head Fixed Output

Model	Max. Pressure	Pump Tube Number	Approximate Output @ 60Hz						Approximate Output @ 50Hz		
			Gallons Per day	Liters Per day	Gallons Per hour	Liters Per hour	Ounces Per Minute	MilliLiters Per Minute	Liters Per day	Liters Per Hour	Milliliters Per Minute
45MHP2*	100 psi (6.9 bar)	# 1	3	11.4	0.13	0.48	0.27	7.92	9.1	0.38	6.32
45MHP10*	100 psi (6.9 bar)	# 2	10	37.9	0.42	1.58	0.89	26.32	30.3	1.26	21.04
45MHP22*	100 psi (6.9 bar)	# 7	22	83.3	0.92	3.47	1.96	57.85	66.6	2.78	46.25
45MP1	25 psi (1.7 bar)	# 1	3	11.4	0.13	0.48	0.27	7.92	9.1	0.38	6.32
45MP2	25 psi (1.7 bar)	# 2	10	37.9	0.42	1.58	0.89	26.32	30.3	1.26	21.04
45MP3	25 psi (1.7 bar)	# 3	22	83.3	0.92	3.47	1.96	57.85	66.6	2.78	46.25
45MP4	25 psi (1.7 bar)	# 4	35	132.5	1.46	5.52	3.11	92.01	106	4.42	73.61
45MP5	25 psi (1.7 bar)	# 5	50	189.3	2.08	7.89	4.44	131.43	151.4	6.31	105.14

* Pump supplied with injection check valve for 26-100 psi (1.7-6.9 bar) applications



Single Head Adjustable Output

Model	Max. Pressure	Pump Tube No.	Approximate Output @ 60Hz						Approximate Output @ 50Hz		
			Gallons Per day	Liters Per day	Gallons Per hour	Liters Per hour	Ounces Per Minute	MilliLiters Per Minute	Liters Per day	Liters Per Hour	Milliliters Per Minute
45MHP2*	100 psi (6.9 bar)	# 1	0.2 to 3	0.8 to 11.4	0.01 to 0.13	0.03 to 0.48	0.02 to 0.27	0.56 to 7.92	0.6 to 9.1	0.03 to 0.38	0.31 to 6.32
45MHP10*	100 psi (6.9 bar)	# 2	0.5 to 10	1.9 to 37.9	0.02 to 0.42	0.08 to 1.58	0.04 to 0.89	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
45MHP22*	100 psi (6.9 bar)	# 7	1.1 to 22	4.2 to 83.3	0.05 to 0.92	0.18 to 3.47	0.10 to 1.96	2.92 to 57.85	3.3 to 66.6	0.14 to 2.78	2.29 to 46.25
45M1	25 psi (1.7 bar)	# 1	0.2 to 3	0.8 to 11.4	0.01 to 0.13	0.03 to 0.48	0.02 to 0.27	0.56 to 7.92	0.6 to 9.1	0.03 to 0.38	0.31 to 6.32
45M2	25 psi (1.7 bar)	# 2	0.5 to 10	1.9 to 37.9	0.02 to 0.42	0.08 to 1.58	0.04 to 0.89	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
45M3	25 psi (1.7 bar)	# 3	1.1 to 22	4.2 to 83.3	0.05 to 0.92	0.18 to 3.47	0.10 to 1.96	2.92 to 57.85	3.3 to 66.6	0.14 to 2.78	2.29 to 46.25
45M4	25 psi (1.7 bar)	# 4	1.7 to 35	6.4 to 132.5	0.07 to 1.46	0.27 to 5.52	0.15 to 3.11	4.44 to 92.01	5.1 to 106	0.21 to 4.42	3.54 to 73.61
45M5	25 psi (1.7 bar)	# 5	2.5 to 50	9.5 to 189.3	0.1 to 2.08	0.4 to 7.89	0.22 to 4.44	6.6 to 131.43	7.6 to 151.4	0.32 to 6.31	5.28 to 105.14

* Pump supplied with injection check valve for 26-100 psi (1.7-6.9 bar) applications

NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

45 Pump Series specifications

Output Control for Adjustable Pumps Only . . . Manual with external dial ring
from 5-100%

Turndown Ratio 20:1

Suction/Discharge Polyethylene Tubing 1/4", 3/8", 6 mm Europe

Motor rpm 26

Motor HP 1/30

Voltage 120V, 220V 60Hz
230V, 250V 50Hz International

Amp Draw @ Maximum Load 1.7 @ 120V
0.9 @ 220V, 230V, 250V

Maximum Operating Temperature 125° F (52° C)

Maximum Viscosity 10,000 cPs*

Suction Lift 25 ft (7.6 m)

Dimensions (l x w x h) Fixed output
8.0 x 5.3 x 6.0 in;
20.3 x 13.4 x 15.2 cm
Adjustable output
10.6 x 5.3 x 6.0 in;
26.9 x 13.4 x 15.2 cm

Shipping Weight Fixed output
8 lbs (3.6 kg)
Adjustable output
9 lbs (4 kg)

*10,000 centipoise - 5 ft suction lift, high viscosity fluids decrease suction lift capability
and pump displacement.

45 Pump Series output chart

45MP Fixed Output Single Head: 0 to 25 psi (1.72 bar) Maximum Discharge Pressure

Model	Tube	gpd	lpd
45MP1	# 1	3	9.1
45MP2	# 2	10	30.3
45MP3	# 3	22	66.6
45MP4	# 4	35	106
45MP5	# 5	50	151.4

Outputs per day in U.S. Gallons @ 60Hz & Liters @ 50Hz

45M PHP Fixed Output Single Head: 26 to 100 psi (6.9 bar) Maximum Discharge Pressure

Model	Tube	gpd	lpd
45M PHP2	# 1	3	9.1
45M PHP10	# 2	10	30.3
45M PHP22	# 7	22	66.6

Outputs per day in U.S. Gallons @ 60Hz & Liters @ 50Hz

45M Adjustable Output Single Head: 0 to 25 psi (1.72 bar) Maximum Discharge Pressure

Feed Rate Control Setting

		L		1		2		3		4		5		6		7		8		9		10	
Model	Tube	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd
45M1	# 1	0.2	0.6	0.3	0.9	0.6	1.8	0.9	2.7	1.2	3.6	1.5	4.5	1.8	5.5	2.1	6.4	2.4	7.3	2.7	8.2	3	9.1
45M2	# 2	0.5	1.5	1	3	2	6.1	3	9.1	4	12.1	5	15.1	6	18.2	7	21.2	8	24.2	9	27.3	10	30.3
45M3	# 3	1.1	3.3	2.2	6.6	4.4	13.3	6.6	20	8.8	26.6	11	33.3	13.2	40	15.4	46.6	17.6	53.3	19.8	60	22	66.6
45M4	# 4	1.7	5.1	3.5	10.6	7	21.2	10.5	31.8	14	42.4	17.5	53	21	63.6	24.5	74.2	28	84.8	31.5	95.4	35	106
45M5	# 5	2.5	7.6	5	15.1	10	30.3	15	45.4	20	60.6	25	75.7	30	90.8	35	106	40	121.1	45	136.3	50	151.4

Outputs per day in U.S. Gallons @ 60Hz & Liters @ 50Hz

45MHP Adjustable Output Single Head: 26 to 100 psi (6.9 bar) Maximum Discharge Pressure

Feed Rate Control Setting

		L		1		2		3		4		5		6		7		8		9		10	
Model	Tube	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd	gpd	lpd
45MHP2 # 1		0.2	0.6	0.3	0.9	0.6	1.8	0.9	2.7	1.2	3.6	1.5	4.5	1.8	5.5	2.1	6.4	2.4	7.3	2.7	8.2	3	9.1
45MHP10# 2		0.5	1.5	1	3	2	6.1	3	9.1	4	12.1	5	15.1	6	18.2	7	21.2	8	24.2	9	27.3	10	30.3
45MHP22# 7		1.1	3.3	2.2	6.6	4.4	13.3	6.6	20	8.8	26.6	11	33.3	13.2	40	15.4	46.6	17.6	53.3	19.8	60	22	66.6

Outputs per day in U.S. Gallons @ 60Hz & Liters @ 50Hz

45 Pump Series build item number

Item number is required for placing orders. To build item number, select code based on application requirements.

4	5	M								Factory Use Only		
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Single Head

Control

Pressure
Rating

Pump
Tube

Voltage
& Hertz

Suction
Discharge
Tubing

Pump
Tube
Material

CODE

Control

- F Fixed
- J Adjustable

Pressure Rating

- L 0-25 psi (0-1.7 bar)
- H 26-100 psi (1.7-6.9 bar)

Pump Tube

Outputs @ 60Hz, for 50Hz refer to output page in this catalog.

25 psi (1.7 bar)

	gpd	lpd	Fixed	Adjustable
1	3	11	45MP1	45M1
2	10	38	45MP2	45M2
3	22	83	45MP3	45M3
4	35	133	45MP4	45M4
5	50	189	45MP5	45M5

100 psi (6.9 bar)

	gpd	lpd	Fixed	Adjustable
1	3	11	45MPHP2	45MHP2
2	10	38	45MPHP10	45MHP10
7	22	83	45MPHP22	45MHP22

Voltage & Hertz

- A 120V 60Hz
- B 220V 60Hz
- C 230V 50Hz, CEE7 cord International
- D 250V 50Hz, CEE7 cord International

Contact the factory for additional voltage and cord options.

Suction Discharge Tubing

O.D.; does not affect output

- 1 1/4" White
- 2 1/4" UV Black
- 3 3/8" White
- 4 3/8" UV Black
- 5 6 mm White Europe

Pump Tube Material

- S Application specific, refer to chemical resistance guide for chemical compatibility.
- T Santoprene*
- T Tygothane* (available in #2 and #5 size only, see Pump Tube)



Hastings Water Works
10331 Brecksville Rd
Brecksville OH 44141

Phone: (440) 832-7700
Email: customerservice@hastingswaterworks.com

Quote

Quote No. QUO13911

Date: 8/24/2026

Customer:

Brook Park Recreation Center
17400 Holland Road
Brook Park, OH 44142

CUS24746

Contact:

Mobile:
Email:
Requested By:
Phone:

TOTAL

\$85,530.66

Expiration Date: 9/23/2026

Quoted By:	Consultant	Acct Manager
Brent Stanley		Brent Stanley

Quantity	Item	Price	Total
1	SV-1 SERVICE LABOR-Replace all associated plumbing, valves and fittings on both spa circulation pump and agitation pumps to include new filters, new pumps, new heaters and chemical automation.	\$12,250.00	\$12,250.00
4	PEN-011057 INTELLIFLOW VS-SVRS VARIABLE SPEED PUMP 230V	\$3,680.35	\$14,721.40
1	NSI-EQ Misc Plumbing	\$1,600.00	\$1,600.00
11	PRA-120097 TRUE UNION BALL VALVE 1.5in	\$104.56	\$1,150.16
1	SV-D HORIZON DISPOSAL FEE	\$500.00	\$500.00
1	NSI-SVS-SUBS Reinstall new electrical components	\$20,644.00	\$20,644.00
2	CAM-32012CE 12KW 208V THREE PHASE COATES ELECTRIC POOL&SPA HEATERS	\$3,501.71	\$7,003.42
2	HAY-WG1032HF2PAK2 HAYWARD 12inX12in FRAME & GRATE 2PK HF	\$466.26	\$932.52
1	SV-1 SERVICE LABOR-clean and polish stainless steel in hot tubs	\$1,000.00	\$1,000.00
1	1-STE2210 CITRISURF 2210 STAINLESS STEEL PASSIVATION AND CLEANER-GL	\$109.20	\$109.20
2	PEN-160340 PENTAIR CLEAN & CLEAR CARTRIDGE 320 SQ.FT.	\$1,999.31	\$3,998.62
2	NSI- Permits ODH ERN	\$150.00	\$300.00
2	HAY-CATPP4000WIFI CAT 4000 Wi-Fi WIRELESS ORP/PH CONTROLLER W/ RFS	\$6,143.31	\$12,286.62



Hastings Water Works
10331 Brecksville Rd
Brecksville OH 44141

Phone (440) 832-7700
Email: customerservice@hastingswaterworks.com

Quote

Quote No. QUO13911

Date: 8/24/2026

Quantity	Item	Price	Total
4	STEN-45M3-14 STENNER VARIABLE RATE FEED PUMP, 22.0 GPD, 120V, #3 TUBE, 1/4in TUBING (45MJL3A1S)	\$674.78	\$2,699.12

****Please Reference Quote Number When Ordering****

NOTES: This estimate is to remove and replace all the equipment for the mens and womens locker room hot tubs including moving the plumbing and electrical. We will use the existing flow meters.

- Products and equipment used to complete job are subject to applicable state and city sales taxes.
- Estimates exceeding \$2,000 will require a payment of 50% upon acceptance and the remainder is due Net 10 Days.
- This quote, once signed, is a contract between Hastings Water Works and the property owner.

Subtotal	\$79,195.06
Shipping Cost	\$0.00
Tax Total (8%)	\$6,335.60
Total	\$85,530.66

ACCEPTANCE OF QUOTE – I am authorized to sign on behalf of the owner and I have read the attached Terms and Conditions and Proposal Notes and the above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment (s) will be made as specified.

Accepted By:

Date:

Authorized Signature:



22350 Royalton Road • P.O. Box 360660 • Strongsville, Ohio 44149
Phone (440) 238-2800 • Fax (440) 238-4839
www.opaquatics.com

Brook Park Spa Renovation

Scope of Work:

1. Provide and install two cat 4000 chemical controllers.
2. Provide and install four Stenner 45-m5 chemical feed pumps.
3. Provide and install two Pentair CCP 320 filters.
4. Provide and install four Pentair VS_SVRS pumps.
5. Provide and install two coats 11KW 3 phase spa heaters.
6. Provide and install four 12x12 VGB drain covers.
7. Remove and rebuild the decking that the systems are mounted to.
8. Move the existing electrical panels to the wall and update for the new equipment.
9. Provide and install all new plumbing and valves in the pump room.
10. Remove all debris.

Total Cost: \$85,500.00

Payment Schedule and terms pending credit review.