



PUMPTRONICS PUMPING SYSTEMS

THE GOLF COURSE WATER MANAGEMENT SPECIALISTS

An Experienced Company with Knowledgeable Staff

- Provide quality advice and efficient pumping systems to over 300 golf and turf operations in North America.
- Pumptronics understands the total water management needs of golf courses and other turf applications.
- The staff has many years of collective golf course and water management experience and keeps current on the latest technologies and product innovations.
- Our knowledgeable staff recommends the right solution that best fits our customer's needs and budget.
- Pumptronics provides a complete range of products and services, from pump maintenance and service, to VFD panel upgrades, to brand new pre-fabricated pump stations.

Satisfied Customers

Pumptronics has installed systems at many fine courses across Canada such as:

- St. Georges Golf and Country Club
- Old Ashburn Golf Club
- Summit Golf and Country Club
- Carnmoney Golf and Country Club
- Cataragui Golf and Curling Club
- Eagles Glen Golf Club

A complete list of completed projects is available upon request

A Full Product Line

- Pumptronics offers six product lines; Pulse Pro, Pulse Plus, Pulse, Pulse Sled, Pulse Pak and Pulse Custom; designed to deliver the best solution for any application.

PULSE PLUS®

The **PULSE PLUS®** is designed with superior reporting and control capabilities. The colour touch screen can log flow data for over 10 years, has a 300 event history log and over 20 built-in fault alarms that can monitor voltage, phase and water levels.

The use of 1800 RPM high efficiency pumps with externally lubricated shafts extends the pump life even in dirty water conditions. Pumptronics is so confident in these pumps that we have extended the warranty on the pump assembly up to 10 years.



PULSE PLUS®



Toll Free 1-888-222-6676 Tel (905) 469-6444 Fax (905) 825-8139
18-1290 Speers Road, Oakville, Ontario L6L 2X4
www.pumptronics.ca



PULSE PLUS® FEATURES

FAIL-SAFE FEATURES

- 1) The PULSE PLUS® is designed to automatically switch between Variable Frequency Drive pressure control to mechanical pressure control if the electronic drive fails. This guarantees the completion of your irrigation cycle.
- 2) If one motor fails, the PLC alters the low pressure alarm setting, to allow the irrigation system to complete its cycle.
- 3) If the Programmable Logic Controller (PLC) fails, each pump can be started manually.
- 4) System automatically re-starts after low pressure, low water, high pressure, voltage fluctuation and drive alarms.
- 5) Pumps use an external lubrication on shaft to prevent premature shaft wear.
- 6) Pumping system is customized for the specific needs of the golf course industry including such features as slow fill, automatic ramp, energy saving mode, pump start monitor, flow monitor and friction loss compensation.

DESIGN CRITERIA

Flow Rates from 300-3500 usgpm (40 - 220 litres/s)
 Pressures from 75 - 200 psi (500 to 1400 K Pa)
 High Efficiency 1800 RPM Motors (up to 93%)
 High Efficiency 1800 RPM Vertical turbine pumps (up to 86%)

Voltages

- Units available in 230, 460 and 600 volt (3 phase), including 230 and 460 volt (single phase)
- Single phase up to 1500 gpm

Quality Construction

- Cast iron discharge pump heads with lubricated shaft
- Exclusive 10 year pump warranty
- Pressure relief valve for pressure regulation if drive fails during the night
- High efficiency vertical turbine pumps with stainless steel shafts, lubricated line shaft bearings and stainless steel basket strainers
- Flow Meter spool with MUIS flow sensor wired directly to PLC
- Lever operated wafer style station discharge isolation valve
- Wet well access hatch
- Grit blasted subsurface with 6-8 mil Epoxy Paint Process
- Continuous weld deck plate
- Silicone-filled pressure gauges with isolation valves
- Air relief valves on each pump with no moving parts
- Individual lever handle pump isolation valves
- Plunger type, bronze disc, wafer style pump check valves
- Pressure maintenance pump with stainless steel housing and impellers



State of the Art Electronic Controls

- CSA and UL approved panel with safety door interlock switch
- 10" Colour Touch Screen Operator Interface Display
- Air cooled Nema 12 Control Panel
- Stainless steel pressure transducer rated at 250 psi
- CSA / UL certified motor protection
- Variable Frequency Drive with input line reactor for extra protection
- Automatic Alternation of VFD Pumps
- Surge and Lightning protection
- VFD fault shutdown with auto-restart
- Motor phase failure, phase imbalance and phase reversal protection
- Low and High voltage protection

Superior Software Controls

- Last 300 event history log with date, flow, psi, and time stamp
- Daily, monthly and yearly flow log with 10 years of storage
- Last 100 Fault alarm list with date, flow, psi, and time stamp
- Password protected operator control of all control aspects including pressure set point, flow rate limits and VFD limits
- Individual motor run time log and number of starts log
- Software for 2 flow meters and 2 auxiliary attachments (fountains etc.)
- Built in Print function for all logs
- Automatic Ramp algorithm to bring pressure from 0 to set point
- Optional wireless remote monitoring package

MODEL	USGPM	PSI	TOTAL HP	PUMPS
PLUS-2VST-600/125-30/2-1770-600/3/60	600	125	60	2
PLUS-2VST-800/125-40/2-1770-600/3/60	800	125	80	2
PLUS-2VST-1000/125-50/2-1770-600/3/60	1000	125	100	2
PLUS-2VST-1200/125-60/2-1770-600/3/60	1200	125	120	2
PLUS-2VST-1500/125-75/3-1770-600/3/60	1500	125	150	2
PLUS-3VST-2000/125-60/5-1770-600/3/60	2000	125	180	3
PLUS-3VST-2500/125-75/5-1770-600/3/60	2500	125	225	3
PLUS-3VST-3000/125-100/5-1770-600/3/60	3000	125	300	3

Flow rates and pressures can be altered based on requirements



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