

SPECIFICATIONS

Model	PT40-1	PT90-1	PT160-1
Max Working Pressure		600Kph	
Overall Volumetric Efficiency		100% Positive	
Displacement	15,000Ltr/HR	30,000Ltr/Hr	6
Speed Range		150-450RPM	
Rotation	Bi Directional - Except if Vacuum option is selected		
Duty Cycle	Continually		
Mechanical Seal	Carbon Ceremic Faces with Viton Elastomers		
Electrical Motor	4.5KW	7.5KW	11KW
Voltage	380-420 Delta		
Rated Current	9A	15A	22A
Plug - 15M Extension Cord	9 Pin 15Amp		4pin 32Amp
Speed 50hz (r/Min)	1450		
Helical Gear Drive Ratio	5.67:1	5.05:1	5.31:1
Stainless Stell Enclosure	Stainless Steel Grade 316 - 400mm x 300mm x 200mm		
Variable Speed Drive	7.5KW - IP65		11KW - IP65

WIZARD SULTAN GENIE

Manual Pumping

Start Stop with pumping speed rate control	X	X	X
Pumping Speed or Rate	X	X	X
Forward or Reverse Pumping (Depends on Vacuum Option)	X	X	X

Timed Pumping

Pump will automatically shutdown after the operator set time period.	X	X	X
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Pressure Head

The pump will pump to ther operator set liquid height or head pressure then shutdown.		X	X
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Pump to Level

The pump will pump and shutdown when the external level sensors operate.		X	X
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Constant Pressure

The pump speed will automatically be adjusted to maining a constant discharge pressure.		X	X
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Batch Pumping

Pump an operator preset volume and then shutdown	X	X	X
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Supervisor Maintenance Information

Total Run hours	X	X	X
Dry Run Trips	X	X	X
Stator hours	X	X	X

Supervisor Settings

Maximum Pump Pressure		X	X
Maximum Dry Run Trips Allowed	X	X	X
Change Stator	X	X	X

Protection

Motor Overload	X	X	X
VF Drive Fault	X	X	X
Dry run or no flow	X	X	X
Over pressure		X	X
Suction Pressure		X	X

Options - Wireless

Wireless Remote Start Stop Increase Decrease Pump Rate	O	O	O
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Option - Barrell Filing

Barrell filling auto slow and shutdown on full		O	O
Barrell emptying auto shutdown with back up		O	O

Option - Vacuum Protection

Trips on excessuve suction to save hose and tank collapse		O	O
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FEATURES

FILLING PUMP GENIE PERSPECTIVE



The Genie pump combines the known reliability of a progressive cavity pump with a control system automates cellar operations and increases efficiencies. One person can safely carry out several tasks at the same time, reducing labour costs and requirements for casual labour during harvest.

Features:

- An intelligent control system that monitors the pump during operation and automatically shuts down the pump in abnormal condition to protect the wine, the pump, hoses and tank from damage or loss of wine.
- User set timed automatic switching on and off for pump over of ferments.
- User set pressure mode to maintain a predetermined pressure. Ideal for pumping through filtration or supplying bottling lines. In this mode the operator display shows a graph of the actual pressure over time.
- User set batch mode for pumping a predetermined volume and then automatically turning off ideal for blending, calibrating tanks and filling barrels and tanks to a predetermined level. The volume is measured through a magflow meter which provides a precise volumetric measurement. When using this mode in addition to the normal information displayed the operator panel displays the target litres, litres already pump and the time remaining based on the current flow rate. At the start of each batch the previous batch is recorded and displayed to the operator.
- High pressure shut off if discharge line is closed allowing filling to float valve or barrel trigger and shut off of the pump. This feature helps prevent blown hoses and wine losses.
- Optical “No Flow” sensor which during start up reduces pump speed until flow is detected and once running shuts down the pump if no flow is detected.
- High vacuum sensor to detect cavitation and prevent damage to the wine, suction hoses and tanks.
- Audible and Visual indicator wan when pump starts automatically, completes a programmed task or stops due to an alarm condition.
- In built maintenance recording system notifies users when maintenance is due, when maintenance was last done and allows the users to record when the maintenance tasks have been completed.
- Intuitive operator panel with fully documented help pages ensure ease of operation and provides the operator with flow, pressure, motor amps, time.
- Optional external sensors allow filling to level, distance from the top of the tank etc. Sensors can be wired or wireless
- Optional remote with start/stop, Fwd/Rev and speed control.

