

2" SPG2 Programmable Genie®

C100M
Controller



2" SPG Programmable Genie® Skimmer

The 2" SPG2 Programmable Genie® is a safe, reliable and complete system for removing free product from wells. The 2" SPG2 Programmable Genie system consists of an air-powered pumping unit with a floating inlet that tracks the changes in the water level. The SPG float uses specific gravity to avoid water intake and includes multiple inlet hole positions to allow fine-tuning of the inlet level as the floating layer thickness is reduced. The special Genie bladder pump with high suction capacity delivers proven reliability and durability. The 2" SPG2 Programmable Genie utilizes the C100M Controller which allows the user to not only control the pump fill/discharge cycles, but also to set OFF periods to match the LNAPL pumping rate to the LNAPL recovery rate of the well. A complete line of matched accessories is available to help installation and performance, including in-well tubing, well caps, on/off timers, LNAPL collection tank-full shutoffs and other items. The 2" SPG2 Programmable Genie is available in 6 different models with varying inlet float travel ranges and pumping rates. Why so many options? QED has found that each LNAPL site well can have its own challenges in terms of well depth, water level fluctuation and desired LNAPL pumping rate. For example, the model with the longest pump and float travel range may be too long for some wells. Check the dimensions and flow rates below, or just call QED to help select the best match for your project.

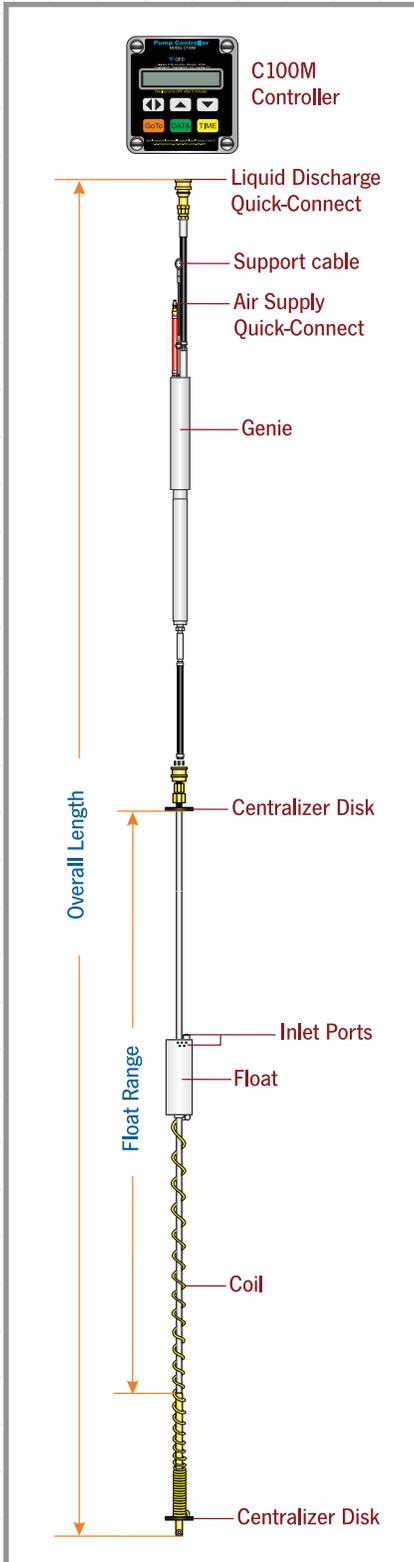
Warranty

SPG2 Programmable Genies are warranted for one (1) year.

Advantages

1. Specialized bladder pump is extremely durable, provides high suction to maintain flow, and eliminates contact of drive air with pumped fluid.
2. Easy-to-use digital control of pump discharge and refill cycles.
3. Available in a range of flow rates and float travel ranges.
4. Low air consumption.

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Specifications

Programmable Genie Model	Maximum LNAPL Recovery Rate*	Float Travel Range	Overall Length	Minimum Liquid Column
PG2415 SPG2	160 gpd (605 Lpd)	15 in. (38 cm)	84 in. (213 cm)	6 in. (15 cm)
PG2424 SPG2	160 gpd (605 Lpd)	24 in. (61 cm)	95 in. (241 cm)	12 in. (30 cm)
AG2445 SPG2	160 gpd (605 Lpd)	45 in. (114 cm)	119 in. (302 cm)	15 in. (38 cm)
AG4815 SPG2	320 gpd (1,211 Lpd)	15 in. (38 cm)	108 in. (274 cm)	6 in. (15 cm)
AG4824 SPG2	320 gpd (1,211 Lpd)	24 in. (61 cm)	120 in. (305 cm)	12 in. (30 cm)
AG4845 SPG2	320 gpd (1,211 Lpd)	45 in. (114 cm)	144 in. (366 cm)	15 in. (38 cm)

Minimum Well ID	2 in. (5 cm)
Maximum OD	1.92 in. (4.88 cm)
Maximum Depth	150 ft. (45.7 m)
Air Supply Pressure (min/max)	40/100 psi (2.7/6.9 bar)
LNAPL Fluid Density	< .85 SG
Kinematic Viscosity	1-1000 centistokes
Recommended Initial LNAPL Layer	> 3 in. (> 7.6 cm)
Residual LNAPL Layer	≥ 0.25 in. (.64 cm)
Suitable Types of LNAPL	Gasoline, diesel, jet fuels, kerosene, #2 - #5 fuel oils, light weight motor oil and hydraulic fluid
Materials	Brass, Tygon®, stainless steel, Viton®, Teflon®
Fitting Type	Quick-connect
Hose or Tubing	Both are available

Tygon is a registered trademark of Saint Gobain - Norton. Viton is registered trademark of DuPont Dow Elastomers.

Teflon is a registered trademark of Dupont.

* gpd = gallons per day, Lpd = liters per day

C100M Pump Controller

The C100M Digital Controller is solar-powered and provides advanced operational capabilities at an economical price. Easy-to-use digital control of pump discharge and refill cycles and programmed OFF times make it convenient to optimize LNAPL recovery to match site conditions.



Tank full shutoff for the collection tank is a safe, simple and inexpensive add-on to the C100M, as an optional level control function. The C100M includes both a highly effective solar power system and a conventional AC power supply. Under solar-powered operation, the C100M is CSA rated as intrinsically safe.