

Guzzler® Sap-Puller 24 VDC Double Diaphragm Pump

Specifications / Options

Pump Body & Ports¹	Natural (Pigment-free) Delrin / White ²
Housing & Support Leg	Epoxy-coated steel (resists corrosion)
Valves¹	Duckbill, Umbrella ²
Diaphragm¹	Buna-N ² , Santoprene ²
Clevis, diaphragm button and screw¹	Natural Delrin (White) ² and Stainless Steel ²
Manifolds¹	NSF-Potable Water approved PVC pipe ³ ; Standard or "T"-manifold
Motor Enclosure	Enclosure provides protection against ingress of dust and water spray from all directions

¹ in contact with fluid ² FDA-approved material
³ NSF-61 compliant

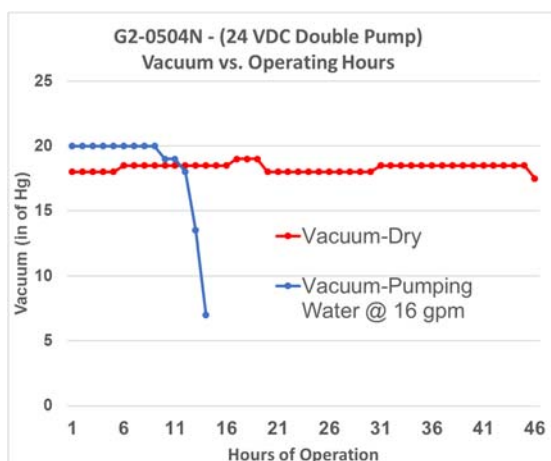
Valve Options

Duckbill	Good vacuum service. Best for transfer of fluids with some materials in suspension.
Umbrella	Excellent vacuum service. Best for transfer of liquids free of any materials. Made of FDA-approved silicone.

Optional "T"-Manifold



- Remove plug at end of season to facilitate cleaning
- Use on inlet & remove plug to connect pump to separate mainlines



Operating results when pump is powered by two (2) 12 VDC 60 amp-hour batteries.

For maple sap vacuum production on up to 900 taps

- **Up to 25 in Hg vacuum with wet pump valves**
 - ◊ Dry valves: 20 in Hg
- **Use on up to 900 taps**
- **No releaser required**
 - ◊ Creates vacuum and transfers fluid
 - ◊ Liquid will not damage pump
 - ◊ Can run dry without damage
- **NSF-compliant (or better) materials for wetted components**
- **Compact, quiet-running 24 V Brushless DC 60-rpm motor**
 - ◊ Connecting rod bearings require no lubrication
- **Features new SapCheck-ready Remote Control Interface**
- **Pump diaphragms easily accessible**
 - ◊ Ships with 2 spare diaphragms
- **Manifolds can point in same or opposite directions**
- **Minimum 12 hours operation on 2 12VDC 60-amp hour batteries**

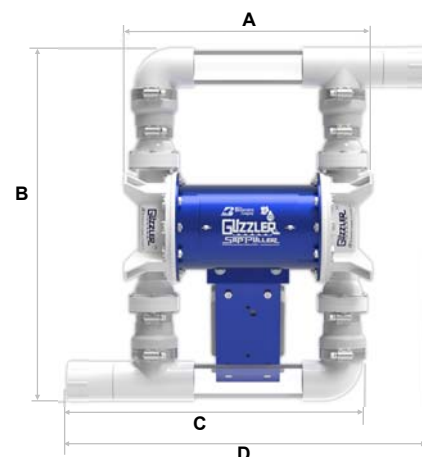
Performance

Flow Rate	15 gpm ¹
Max Vacuum	28 in Hg (0.9 bar) ²
Max Lift	20 ft (6.1 m) ²
Max Pressure	2 psi (0.1 bar) ²
Max Head	4 ft (1.2 m) ²
Max Service Temp	140°F (60°C)

¹ transferring from/to atmospheric pressure
² with wetted umbrella valves; on sap lines with minimal leaks

Motor Specifications

Motor Type	24VDC, Brushless DC Motor
Power	100 W (1/8 HP)
Protection	[Motor] IP65 (excluding connectors) [Driver] IP00
Speed	60 rpm
Torque	152 in-lbs
Ambient Temperature Range	0°C ~ +50°C (+32°F ~ +122°F) (non-freezing)
Max Load Amps	6.0
Weight	~7 lbs
Certifications	UL, CSA, CE



	in	cm
A	12-1/8	30.8
B	17-1/2	44.5
C	15-1/8	38.4
D	18	45.7
E	6-1/2	16.5
F	7-1/2	19.1
G	10-5/8	27.0
H	11-3/16	28.4
Leg Mounting Hole	5/16	0.8
Manifold Mounting Strap Hole	3/8	1.0
Weight	23.5 lb	10.7 kg

Guzzler® 24 VDC Double Diaphragm Electric Pump

G2-0504N

Product Model Number Nomenclature Guide

Recommended options for use in maple sap collection

Example: G2-0504N-071-98-7171-TK

- Guzzler Electric Pump
- Model style #0504N: Natural Delrin Body, Opposite Side Ports
- Silicone Umbrella Valves
- Buna-N (FDA-approved material) Diaphragm
- Steel Crank Arm & Connecting Rod; Natural Delrin Clevis & Button
- Inlet: 1-1/4" Tapped (Female)
- Outlet: 1-1/4" Tapped (Female)
- 24 VDC / 60 RPM / 152 in-lbs Motor



Guzzler Product	
Option	Code
Double Diaphragm Electric Pump	G2

Pump Body Style	
Option	Code
Nat'l Delrin, Opp. Side Ports	0504N

Reserved	
Option	Code
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Valves	
Option	Code
Duckbill (Buna-N)	6
Umbrella (Silicone)*	7

Diaphragm	
Option	Code
Buna Nitrile*	1
Buna-N 3-Ply	2
Neoprene	3
Viton	4
EPDM	5
Silicone*	7
Santoprene*	8

G2 - 0504N - 0 7 1 - 9 8 - 71 71 - TK

Clevis/Button Assembly	
Option	Code
Steel Crank Arm & Connecting Rod; Delrin Clevis	9

Reserved	
Option	Code
---	8

Hose Connections		
Option	Code	
	Inlet	Outlet
1-1/4" NPT Tapped (Female)	71	71
1-1/4" NPT Threaded (Male)	72	72
1-1/4" NPT Tapped (F) "T-Manifold"	7T	7T

115 VAC Motors		
Speed (rpm)	Torque (in-lbs)	Code
60	152	TK

* These elastomers are made from FDA-approved material.