

# Edson

## GASOLINE POWERED DIAPHRAGM PUMP MODEL 120G

- SAFE TO RUN WHEN DRY
- VOLUMES TO 38 GPM
- POWERFUL VACUUM LIFTS
- DRY START LIFT TO 12'
- PUMP UP TO 50% SOLIDS
- LOW EMULSIVE & SHEER ACTION
- NON-CLOGGING FLOW-THRU DESIGN
- EASY TO SET-UP, USE, CLEAN, AND MAINTAIN
- PERMANENT AND PORTABLE APPLICATIONS
- BUILT TOUGH FOR YEARS OF SERVICE
- LONG LIFE, REINFORCED PUMP DIAPHRAGMS
- ALL MATERIALS SPECIFIED FOR THE MARINE ENVIRONMENT

Edson Gasoline Powered Diaphragm Pumps are designed for tough jobs and remote and mobile applications such as: dewatering excavation sites, municipal and utility vehicles, waste oil collection, oil spill clean-up, HAZMAT pumping, sewage collection, well monitoring, mill pond dewatering, farm waste pumping, and marine light dredging.

Order Nos. 120GLA-200 and 120GLB-200 are the Edson gasoline engine powered, skid mounted, nominal 40 gallon per minute, 2", NPT, diaphragm pumps. The 120GLA is built with the wetted parts made of anodized aluminum and the 120GLB wetted parts are marine bronze. Order Nos. 120GWA-200 and 120GWB-200 are the cart mounted version with wheels and handle for portability. The standard models are supplied with a 3.5 HP gasoline engine and a 57 to 1 ratio gear reducer as standard components. With this combination of motor and reducer these pumps will operate at 56 cycles per minute and perform as detailed in the 56 cycle performance chart on page 2.

The unique direct coupling of the gasoline engine to the gear reducer provides the option to power this pump with an electric motor at any time.

The performance charts on page 2 detail the pumps performance at different speeds.

For pumping materials that require rubber with different chemical resistant properties Edson offers optional diaphragms and valves made of Viton or Hypalon. Call Edson customer service for more details.



120GLB-200

120GWA-200

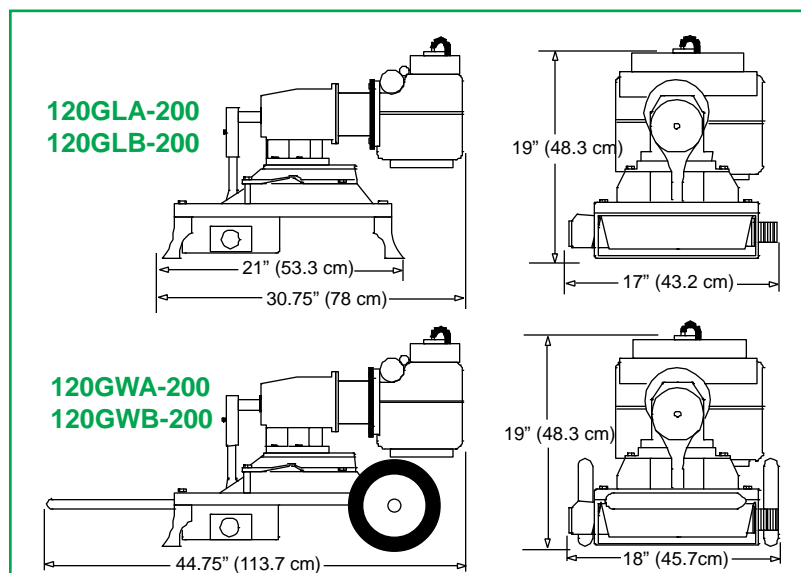
**Performance:** Static Head - Suction 15 ft / 4.57m , Discharge - 15 ft / 4.57m (2" Hose or Pipe) ● Dry Suction Head - 12 ft / 3.65m (2" ID Pipe or Hose) ● Continuous Duty Discharge Head - Should be Limited to 10 ft. / 3m ● Max Volume - 38 GPM / 144 LPM at 5 ft Suction Lift and 0 Discharge at 56 Cycles per Min. w/ 2" Pipe

**Construction:** Anodized Aluminum or Marine Bronze Pump Body ● Nitrile Diaphragm and Valves ● Stainless Steel Hardware ● Aluminum Frame ● Leg or Wheel Mounted Frame

**Connections:** Inlet - 2" Male NPT ● Discharge - 2" Female NPT

**Standard Power Drive:** 3.5 Hp Briggs & Stratton Engine Mounted to a C-Face Gear Reducer

**Options:** Viton® and Hypalon Diaphragm and Valves ● Motor Guard ● Control Panels ● Start/Stop Stations ● Optional Motors ● Halar and Baked on Polyurethane Coatings for Wetted Parts (See Page 2 For Details)



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Edson Gasoline Powered Diaphragm Pumps are designed for tough jobs and remote and mobile applications such as: dewatering excavation sites, municipal and utility vehicles, waste oil collection, oil spill clean-up, HAZMAT pumping, sewage collection, well monitoring, mill pond dewatering, farm waste pumping, and marine light dredging. They are used for the collection and transfer of waste liquids and pumping liquids with suspended solids. They are capable of handling liquids with large suspended solids without clogging, to prime from dry starts, and to run dry. They have the added feature of low emulsive, non sheering pumping action. These basic performance features and Edson's 140 year history of manufacturing quality products have made our pumps the choice for cleaning up our environment and controlling the disposal of liquid waste. Evident by the list below the pumps can be applied to a very broad range of applications including the requirements for dewatering, oil and water separations, marina and campground sewage collection, tank, sump and drum transfers and the collection and transfer of abrasives slurries.

**ENVIRONMENTAL**

- Tank Pump-Outs
- Grease & Oil Collections
- Skimming Pumping
- Asbestos Clean-Ups
- Oil Spill Clean-Up

**INDUSTRIAL**

- Sump Pump-Outs
- Drum Transfer
- Spill Cleanup
- Drain Dewatering

**MARINE**

- Pump-Out Stations
- Light Dredging
- Emergency Dewatering
- Boatyard Utility Pump
- Oil Spill Cleanup

**MUNICIPAL & UTILITY**

- Sewage Collection & Transfer
- Waste Water Skimming
- Drain Clean-Out
- Utility Trunk Pump
- Fly Ash Clean-Ups
- Containment Transfer
- Meter Pit Dewatering
- Manhole Dewatering

**Volume Performance Charts**

56 Cycles Per Min.	DISCHARGE HEIGHT		
	0	5 ft 1.5 m	10 ft 3 m
1 ft .3 m	38/144	32/121	24/91
5 ft 1.5 m	30/114	30/114	23/87
10 ft 3 m	28/106	26/98	16/61
12 ft 3.7 m	28/106	26/98	14/53

gpm / lpm

40 Cycles Per Min.	DISCHARGE HEIGHT		
	0	5 ft 1.5 m	10 ft 3 m
1 ft .3 m	27/102	23/87	17/64
5 ft 1.5 m	21/81	21/81	16/62
10 ft 3 m	20/76	19/70	11/43
12 ft 3.7 m	20/78	19/70	10/38

gpm / lpm

36 Cycles Per Min.	DISCHARGE HEIGHT		
	0	5 ft 1.5 m	10 ft 3 m
1 ft .3 m	24/92	21/78	15/58
5 ft 1.5 m	19/73	19/73	15/56
10 ft 3 m	18/68	17/63	10/39
12 ft 3.7 m	18/68	17/63	8/30

30 Cycles Per Min.	DISCHARGE HEIGHT		
	0	5 ft 1.5 m	10 ft 3 m
1 ft .3 m	20/77	19/72	17/64
5 ft 1.5 m	17.5/66	17/64	16/61
10 ft 3 m	17/64	16/61	15/57
12 ft 3.7 m	13/49	12/47	10/38

gpm / lpm

20 Cycles Per Min.	DISCHARGE HEIGHT		
	0	5 ft 1.5 m	10 ft 3 m
1 ft .3 m	14/52	11/42	9/34
5 ft 1.5 m	11/42	11/42	8/31
10 ft 3 m	10/38	9/34	6/22
12 ft 3.7 m	10/38	9/34	5/19

gpm / lpm

13 Cycles Per Min.	DISCHARGE HEIGHT		
	0	5 ft 1.5 m	10 ft 3 m
1 ft .3 m	9/34	7/26	5/20
5 ft 1.5 m	7/26	7/26	5/20
10 ft 3 m	7/26	6/23	4/14
12 ft 3.7 m	7/26	6/23	3/12

**Ordering Information**

PUMP DESCRIPTION	MATERIAL	WEIGHT lbs / Kgs	ORDER NO.
Skid Mount	Aluminum	79 / 35.8	120GLA-200
Cart Mount	Aluminum	103 / 46.7	120GWA-200
Skid Mount	Bronze	97 / 44.1	120GLB-200
Cart Mount	Bronze	123 / 55.8	120GWB-200

Option order # is added to the basic pump order #, ie 120GWB-200 w/ 230-A-1744 & 230-1130V

**Options**

Option Description	Order #	Option Description	Order #
Motor Guard	230-A-1299	1/2hp, 60 hz, 1725 rpm, 110/220v, 1 ph, ex proof	231-A-1424
Starter Contact/Timer with 24 Volt Trans	230-A-2000	1/2hp, 60 hz, 1725 rpm, 220/440v, 3 ph, tefc	231-A-1383
Remote Sop/Start Control	230-G-215	1/2hp, 60 hz, 1725 rpm, 220/440v, 3 ph, exproof	231-A-1425
Viton Diaphragm & Valves	230-1130V	3/4hp, 12 volt, DC, tefc	231-A-1432
Hypalon Diaphragm & Valves	230-1130H	3/4hp, 24 volt, DC, tefc	231-A-1433
Polyurethane Coating	230-PC	1/2hp, 12 volt, DC, tefc	231-A-1426
Halar Coating	230-Halar	1/2hp, 24 volt, DC, tefc	231-A-1427
<b>Optional Motors</b>		Special 50 hz Motors	
3/4hp, VARIABLE, 60/ 50 hz, 110v, 1 ph, tefc	231-A-1211	3/4hp, 50 hz, 2850 rpm, 110/220v, 1 ph, exproof	231-A-1500
3/4hp, 60 hz, 1725 rpm, 110/220v, 1 ph, tefc	231-A-161	3/4hp, 50 hz, 2850 rpm, 110/220v, 1 ph. tefc	231-A-1501
3/4hp, 60 hz, 1725 rpm, 110/220v, 1 ph, ex proof	231-A-1430	3/4hp, 50 hz, 2850 rpm, 220/440v, 3 ph, exproof	231-A-1556
3/4hp, 60 hz, 1725 rpm, 220/440v, 3 ph, tefc	231-A-1429	3/4hp, 50 hz, 1425 rpm, 220/440v, 3 ph, exproof	231-A-1557
3/4hp, 60 hz, 1725 rpm, 220/440v, 3 ph, exproof	231-A-1431	3/4hp, 50 hz, 1425 rpm, 110/220v, 1 ph. tefc	231-A-1558
1/2hp, 60 hz, 1725 rpm, 110/220v, 1 ph, tefc	231-A-1382	3/4hp, 50 hz, 2850 rpm, 220/440v, 3 ph, tefc	231-A-1559
		3/4hp, 50 hz, 1425 rpm, 220/440v, 3 ph, tefc	231-A-1560

