



MODEL 220G

GAS POWERED DIAPHRAGM PUMP

1 1/2" PORTS - 20 GPM



220GLB-150



220GWA-150

- **SAFE TO RUN WHEN DRY**
- **VOLUMES TO 20 GPM**
- **POWERFUL VACUUM LIFTS**
- **DRY START LIFT TO 15'**
- **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**

Performance:

Static Suction Lift	18 ft / 5.47m
Dry Suction Lift	15 ft / 4.57m
Discharge Head	18 ft / 5.47m
Max Volume.	20 GPM / 76 LPM*
	* at 60 cycles per minute

Construction:

Pump Base	Choice of:
(Wetted Parts)	Anodized Aluminum
	Marine Bronze
	Urethane Powder Coating
	TPFE Coating (HALAR)
Diaphragms and Valves.	Choice of:
	Nitrile
	Viton
Mounting Frame	Powder Coated Aluminum
Hardware Material	Stainless Steel
Gasoline Powered.	Close-Coupled 3.5hp Gasoline Engine

APPLICATIONS

Edson Gasoline Powered Diaphragm Pumps are designed for tough jobs and remote & mobile applications such as: dewatering excavationsites, municipal & utility vehicles, waste oil collection, oil spill clean up, HAZMAT pumping, sewage collections, well monitoring, mill pond dewatering, farm waste pumping, and marine light dredging. They are used for the collection & 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 on the right the pumps can be applied to a very broad range of applications including the requirements for ground water remediation, containment transfers, dewatering, oil and water separations, marina and campground sewage collection, tank, sump and drum transfers, filtration applications, and the collection and transfer of abrasive slurries.

INDUSTRIAL

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

ENVIRONMENTAL

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

MUNICIPAL & UTILITY

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

MARINE

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



GENERAL DESCRIPTION

Order Nos.220GLA-150 and 220GLB-150 are the Edson gasoline engine powered, skid mounted, nominal 40 gallon per minute, 1.5", NPT, diaphragm pumps. The 220GLA is built with the wetted parts made of anodized aluminum and the 220GLB wetted parts are marine bronze. Order Nos.220GWA-150 and 220GWB-150 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 below.

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 below 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 EDPM.

Call Edson customer service for more details

VOLUME PERFORMANCE CHARTS

AT 56 Cycles Per Min.		DISCHARGE HEIGHT		
		0	5 feet 1.5 meters	10 feet 3 meters
S U C T I O N H E I G H T	1 foot .3 meters	18 gpm 68.4 lpm	17 gpm 64.6 lpm	17 gpm 64.6 lpm
	5 feet 1.5 meters	17.5 gpm 66.5 lpm	17 gpm 64.6 lpm	15.5 gpm 59 lpm
	10 feet 3 meters	16.5 gpm 62.7 lpm	15 gpm 57 lpm	13.5 gpm 51.3 lpm
	17 feet 4.2 meters	6 gpm 22.8 lpm	5 gpm 19 lpm	4 gpm 15.2 lpm

AT 40 Cycles Per Min.		DISCHARGE HEIGHT		
		0	5 feet 1.5 meters	10 feet 3 meters
S U C T I O N H E I G H T	1 foot .3 meters	12.9 gpm 49 lpm	12.1 gpm 46 lpm	12.1 gpm 46 lpm
	5 feet 1.5 meters	12.5 gpm 47.5 lpm	12.1 gpm 46 lpm	11 gpm 41.8 lpm
	10 feet 3 meters	11.8 gpm 44.8 lpm	10.7 gpm 40.7 lpm	9.6 gpm 36.5 lpm
	17 feet 4.2 meters	5 gpm 19 lpm	4 gpm 15 lpm	3 gpm 11.5 lpm

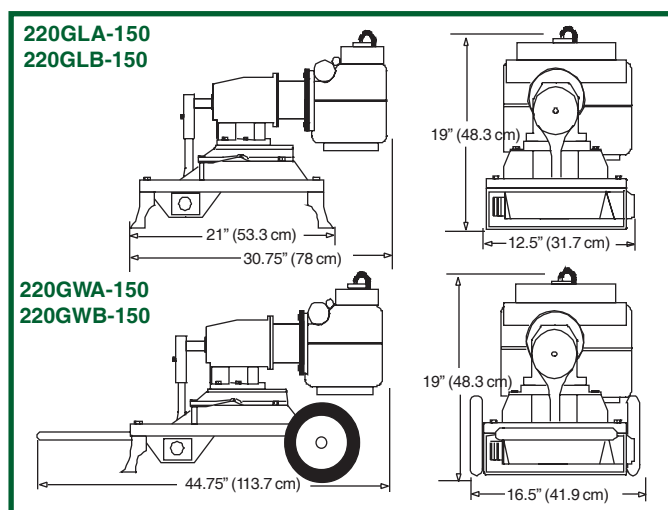
AT 36 Cycles Per Min.		DISCHARGE HEIGHT		
		0	5 feet 1.5 meters	10 feet 3 meters
S U C T I O N H E I G H T	1 foot .3 meters	11.6 gpm 44.1 lpm	10.9 gpm 41.4 lpm	10.9 gpm 41.4 lpm
	5 feet 1.5 meters	11.3 gpm 42.9 lpm	10.9 gpm 41.4 lpm	10 gpm 38 lpm
	10 feet 3 meters	10.6 gpm 40.3 lpm	9.6 gpm 36.5 lpm	8.7 gpm 33.1 lpm
	17 feet 4.2 meters	5 gpm 19 lpm	4 gpm 15 lpm	3 gpm 11.5 lpm

AT 30 Cycles Per Min.		DISCHARGE HEIGHT		
		0	5 feet 1.5 meters	10 feet 3 meters
S U C T I O N H E I G H T	1 foot .3 meters	7 gpm 26.5 lpm	6 gpm 22.8 lpm	5 gpm 19 lpm
	5 feet 1.5 meters	6 gpm 22.8 lpm	5.5 gpm 21 lpm	5 gpm 19 lpm
	10 feet 3 meters	5.5 gpm 21 lpm	5 gpm 19 lpm	5 gpm 19 lpm
	17 feet 4.2 meters	5 gpm 19 lpm	4 gpm 15 lpm	3 gpm 11.5 lpm

AT 20 Cycles Per Min.		DISCHARGE HEIGHT		
		0	5 feet 1.5 meters	10 feet 3 meters
S U C T I O N H E I G H T	1 foot .3 meters	4.6 gpm 17.5 lpm	4 gpm 15.2 lpm	3.3 gpm 12.5 lpm
	5 feet 1.5 meters	4 gpm 15.2 lpm	3.6 gpm 13.7 lpm	3.3 gpm 12.5 lpm
	10 feet 3 meters	3.6 gpm 13.7 lpm	3.3 gpm 12.5 lpm	3.3 gpm 12.5 lpm
	17 feet 4.2 meters	3.3 gpm 12.5 lpm	2.7 gpm 10 lpm	2 gpm 7.6 lpm

AT 13 Cycles Per Min.		DISCHARGE HEIGHT		
		0	5 feet 1.5 meters	10 feet 3 meters
S U C T I O N H E I G H T	1 foot .3 meters	3 gpm 11.4 lpm	2.6 gpm 10 lpm	2.2 gpm 8.4 lpm
	5 feet 1.5 meters	2.6 gpm 10 lpm	2.4 gpm 9.1 lpm	2.6 gpm 10 lpm
	10 feet 3 meters	2.4 gpm 9.1 lpm	2.6 gpm 10 lpm	2.6 gpm 10 lpm
	17 feet 4.2 meters	2.6 gpm 10 lpm	1.7 gpm 6.5 lpm	1.3 gpm 4.9 lpm

DIMENSIONS



Viton® is a registered trademark of DuPont Dow Elastomers L.L.C.

ORDERING INFORMATION

PUMP DESCRIPTION	MATERIAL	WEIGHT lbs / Kgs	ORDER NO.
Skid Mount	Aluminum	83 / 37.6	220GLA-150
Cart Mount	Aluminum	89 / 40.3	220GWA-150
Skid Mount	Bronze	90 / 40.8	220GLB-150
Cart Mount	Bronze	97 / 44.1	220GWB-150

Option order # is added to the basic pump order #,
ie 220GWB-200 w/ 230-A-1299 & 230-11318V

OPTIONS

DESCRIPTION	ORDER NO.
Viton® Diaphragms & Valves	230-11318V
Polyurethane Coating	230-PC
Halar	230-HALAR

Edson offers many motor options - 3Phase, 50HZ, 12Volt DC, 24Volt DC, and 90Volt DC Explosion Proof.

Edson also offers 4 optional "C-Face" gear reducers.

A combination of a motor and a gear reducer will provide one of the six cycle the above performance charts.

Inverters and inverter grade motors are available for variable speed requirements.

