Grease & Oil Collections

Skimming Pumping

MARINE

Bilge Pumps

Light Dredging

Oil Spill Cleanup

Asbestos Clean-Ups

Oil-Water Separation Oil Spill Clean-Up

Pump-Out Stations

Emergency Dewatering Boatyard Utility Pump

On-Board Waste

		13
	MODEL 220A POWERED DIAPHRAGM PUMP 1 1/2" PORTS - 0 TO 20 GPM	
All models are available in heavy duty bronze or lightweight aluminum	220ACB-150 Edson Air Powered 20 GPM Bronze 1 1/2" Diaphragm Pump	
SAFE TO RUN WHEN DRY		
VOLUMES TO 20 GPM		
POWERFUL VACUUM LIFTS		_
DRY START LIFT TO 15'	Performance:	
PUMP UP TO 50% SOLIDS	Static Suction Lift	
LOW EMULSIVE & SHEER ACTION	Dry Suction Lift15 ft./4.57m Dishcarge Head18 ft./5.47m	
NON-CLOGGING FLOW-THRU	Max Volume20 GPM/76 LPM*	
DESIGN	*at 60 cycles per minute	
EASY TO SET-UP, USE, CLEAN,	Pump BaseChoice of:	
AND MAINTAIN	(Wetted Parts) Anodized Aluminum	
PERMANENTAND PORTABLE	Marine Bronze Urethane Powder Coating	
APPLICATIONS	PTFE Coating (HALAR)	
BUILT TOUGH FOR YEARS OF	Diaphragms & Valves Choice of:	
SERVICE	Nitrile Viton®	
LONG LIFE, REINFORCED PUMP	VILONS	
DIAPHRAGMS	Mounting FrameSame as Pump Base	
ALL MATERIALS SPECIFIED FOR	Hardware Material Stainless Steel Drives:	
THE MARINE ENVIRONMENT	Air Motor 2 1/4" bore x 2 1/2" stroke,	
	self-lubricating, air cylinder,	
	controlled by an adjustable 0-30 sec. ceramic air	
APPLICATIONS	operated timing valve.	
	Air Consumption 8 ACFM*	
Edson Air Powered Diaphragm Pumps are the most	*at 60 cycles/min at 85 PSI	
versatile of all Edson Pumps due to the flexibility of		┛│
the air cylinder drive. They are used for the collection		
and transfer of waste liquids and pumping liquids with	INDUSTRIAL	
suspended solids. They are capable of handling	ENVIRONIVIENTAL	ľ
liquids with large suspended solids without clogging,	Sump Pump-Outs Groundwater Remediation	ľ
to prime from dry starts, and to run dry. They have	Slurry Transfer Tank Pump-Outs Abrasive Pumping Grease & Oil Collections	

th ar sι liq 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 of applications the pumps can be used 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 abrasives, slurries.

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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

Abrasive Pumping

Drain Dewatering

Drum Transfer

Spill Cleanup

GENERAL DESCRIPTION

EdsonAir Powered Diaphragm Pumps are ideal for collection and transfer of liquid waste, dewatering, slurry, and filter applications. An externally mounted reciprocating air cylinder powers the single diaphragm at low air consumption rates. Open flow-through flapper valves and accurate, variable speed ceramic 4-way valve make these pumps ideal for applications involving liquids with abrasive solids and high viscosities. All models are portable for use in field applications with portable compressors.

Order Nos.220ACA-150 and 220ACB-150 are the Edson air powered, base mounted, nominal 20 gallon per minute, 1.5", NPT, diaphragm pumps. The 220ACA is built with the wetted parts made of anodized aluminum and the 220ACB wetted parts are marine bronze. The standard models are supplied with a self lubricating reciprocating air cylinder with 2.25" bore x 2" stroke and adjustable 0-30 second ceramic air operated solenoid. With this combination these pumps will operate at cycles between 0 and 60 per minute and perform as detailed in the performance chart s on page 2.

The pumps can also be ordered with options for pumping materials that require different chemical resistent properties. These options include the wetted surfaces coated with either baked on polyurethane or Haylar (PTFE). Edson also offers optional diaphragms and valves made of Viton®.

Call Edson Customer Service for more details.

VOLUME PERFORMANCE CHARTS

AT 56 Cycles Per Min.		DISCHARGE HEIGHT			AT 40		DISCHARGE HEIGHT			AT 36	
		0	5 feet 1.5 meters	10 feet 3 meters	Cycles Per Min.		0	5 feet 1.5 meters	10 feet 3 meters	Cycles Per Min.	
S U C T	1 foot .3 meters	18 gpm 68.4 lpm	17 gpm 64.6 lpm	17 gpm 64.6 lpm	S U C	1 foot .3 meters	12.9 gpm 49 lpm	12.1 gpm 46 lpm	12.1 gpm 46 lpm	S U C	1 foot .3 meters
T I O N	5 feet 1.5 meters	17.5 gpm 66.5 lpm	17 gpm 64.6 lpm	15.5 gpm 59 lpm	T I O N	5 feet 1.5 meters	12.5 gpm 47.5 lpm	12.1 gpm 46 lpm	11 gpm 41.8 lpm	T I O N	5 feet 1.5 meters
H E I	10 feet 3 meters	165 gpm 627 lpm	15 gpm 57 lpm	13.5 gpm 51.3 lpm	HE	10 feet 3 meters	11.8 gpm 44.8 lpm	10.7 gpm 40.7 lpm	9.6 gpm 36.5 lpm	HE	10 feet 3 m eters
Ġ H T	17 feet 4.2 meters	6 gpm 22.8 lpm	5 gpm 19 lpm	4 gpm 15.2 lpm	G H T	17 feet 4.2 meters	5 gpm 19 lpm	4 gpm 15 lpm	3 gpm 11.5 lpm	G H T	17 feet 4.2 m eters
AT 30 Cycles Per Min. 0 5 feet 10 feet 3 meters		AT 20		DISCHARGE HEIGHT				AT 13			
		0			Cycles Per Min.		0	5 feet 1.5 meters	10 feet 3 meters		Cycles Per Min.
s U C	1 foot .3 meters	7 gpm 26.5 lpm	6 gpm 22.8 lpm	5 gpm 19 lpm	S U C	1 foot .3 meters	4.6 gp m 17.5 lp m	4 gp m 15.2 lp m	3.3 gpm 12.5 lpm	S U C	1 foot .3 meters
T I O	5 feet 1.5 meters	6 gpm 22.8 lpm	5.5 gpm 21 lpm	5 gpm 19 lpm	T I O	5 feet 1.5 meters	4 gp m 15.2 lp m	3.6 gp m 13.7 lp m	3.3 gp m 12.5 lpm		5 fæt 1.5 meters

10 feet

3 meters

17 feet 4.2 meter

HEIGHT

3.6 gpm 13.7 lpm

3.3 gpn 12.5 lpm 3.3 gp m 12.5 lp m

2.7 gpm 10 lpm 3.3 gpm 12.5 lpm

2 gpm 7.6 lpm

5 gpm 19 lpm

3 gpm 11.5 lpm

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

	AT 13	DISCHARGE HEIGHT				
	Cycles	0 5 feet		10 feet		
	Per Min.	1.5 meter		3 meters		
SUCTI	1 foot	3 gp m	2.6 gpm	2.2 gpm		
	.3 meters	11.4 lp m	10 lpm	8.4 lpm		
T I O N	0 15 meters	2.6 gpm 10 lpm	2.4 gpm 9.1 lpm	2.6 gpm 10 lpm		
H	10 feet	2.4 gpm	2.6 gpm	2.6 gpm		
	3 m eters	9.1 lpm	10 lpm	10 lpm		
G H T	17 feet 4.2 m eters	2.6 gpm 10 lpm	1.7 gpm 6.5 lpm	1.3 gpm 4.9 lpm		

DIMENSIONS

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HEIGHT

10 feet

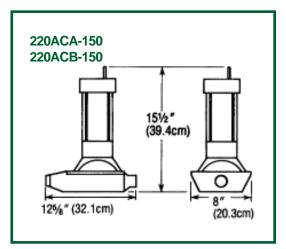
3 meters

17 feet 4.2 meter 5.5 gpm 21 lpm

> 5 gp m 19 lp m

5 gpm 19 lpm

4 gpm 15 lpm



ORDERING INFORMATION

PUMP DESCRIPTION	MATERIAL	WEIGHT Ibs / Kgs	ORDER NO.				
Base Mount Base Mount	Aluminum Bronze	18.5 / 8.4 27 / 12.2	220ACA-150 220ACB-150				
All Option order #'s are added to the basic pump order #, ie 220AWB-200 w/ 230-11318V & 230-PC							
	OPTIONS]					
DESCRIPTION		ORDI	ER #				
Viton® Diaphragm & Va	230-11318V						
Polyurethane Coating		230-l	PC				
Halar Coating		230-1	Halar				

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