

# OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

ALSO INCLUDE MANUALS: 6544X-X AIR MOTOR (97999-64), 641523 CONTROL HANDLE (97999-230),  
S-633 GENERAL INFORMATION MANUAL (P/N 97999-625)

4-1/4" AIR MOTOR  
10:1 RATIO  
4" STROKE

613100 -1  
WASH PUMP

613104  
DETERGENT PUMP ASSEMBLY

613100-1

613104

RELEASED: 4-10-87  
REVISED:  
(REV. )



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,  
OPERATING OR SERVICING THIS EQUIPMENT.**

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

## SERVICE KITS

- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- 637001 for repair of 61371-1 Lower Pump end.
- 61268 for repair of 65444-B Air Motor section.
- 637033 for repair of 641523 Control Handle.

## SPECIFICATIONS

Model	613100-1
Type	Air Operated, Wash Pump
Ratio	10:1
Air Motor Diameter	4-1/4" (10.795 cm)
Stroke (Double Acting)	4" (10.16 cm)
Air Inlet	1/2 - 14 NPTF - 1 (F)
Air Exhaust	1-1/4 - 11-1/2 NPTF - 1 (F)
Material Outlet	3/8 - 18 NPTF - 1 (F)
Material Inlet	Barbed
Pump Construction	Series 425 Stainless Steel
Dimensional Data	See Figure 1

## PERFORMANCE

Air Inlet Pressure Range	0 - 150 p.s.i. (0 - 10.3 bar)
Fluid Pressure Range	0 - 1500 p.s.i. (0 - 103 bar)
Displacement in <sup>3</sup> Per Cycle	11.0 (1.8 L)
Cycles Per Gallon	21 (5.5 L)
Maximum Delivery / Min.	3.9 Gallons (14.8 L)
Accessories Available:	61113 Wall Mount Bracket

## GENERAL DESCRIPTION

The Aro model 613100-1 and 613104 wash pump has been designed for heavy duty cleaning with detergents, caustics, and dilute acid type cleaners. (The model 613100-1 basic pumps come without accessories).

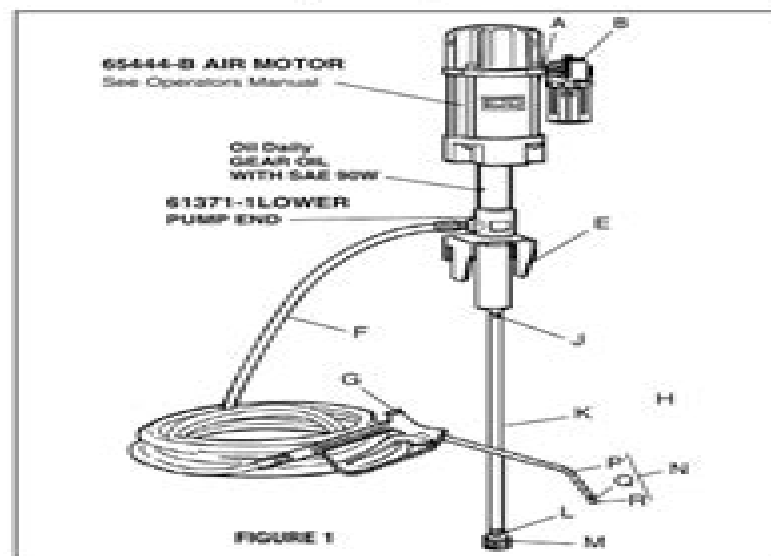
The 10:1 ratio double acting pump section is separated from the air motor to prevent any cleaning solution from coming in contact with and damaging the air motor.

All metal parts in the pumping section are manufactured from 316 stainless steel or "K" metal, the packing and "O" rings are manufactured from Nitrile, and the packing back-ups and portions of the material piston are manufactured from acetal resins.

Packings, "O" rings, and material pistons of virgin PTFE and packing back-ups of glass filled PTFE are available on special request.

The 4-1/4 inch air motor is of the double acting reciprocating type. The valving in the air motor uses "D" type valves and is mechanical with a pneumatic assist.

The 613104 wash pump may be directly mounted in the two inch bung of a standard 55 gal. drum or, when using the 61113 mounting bracket, the pump can be mounted on the wall or in a 55 gal. open head drum. (The 61139 suction tube comes with a 100 mesh screen).



ITEM	DESCRIPTION	PART NO.
A	Nipple	Y27-4-N
B	Airline Lubricator	L36341-110
E	Pump Bracket Assembly (2" Bung)	61113
F	Hose Assembly (3/8 I.D., 2 Fabric)	622427-40
G	Control Handle Assembly	641523
H	Suction Tube Assembly (Includes J, K, L & M)	61139-1
J	Hose Clamp	61204-1
K	Tube	92249-26
L	Hose Clamp	76315
M	Screen Assembly	61138
N	Bent Pipe Assembly (Includes P, Q & R)	61133
P	Bent Pipe	76821
Q	Nozzle Cover	76330
R	Spray Tip	TP6250-18

# Hu40 Ingersoll Rand Owners Manual

**JE Gale**



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