

# 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: 4-10-97  
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 (1.18 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).

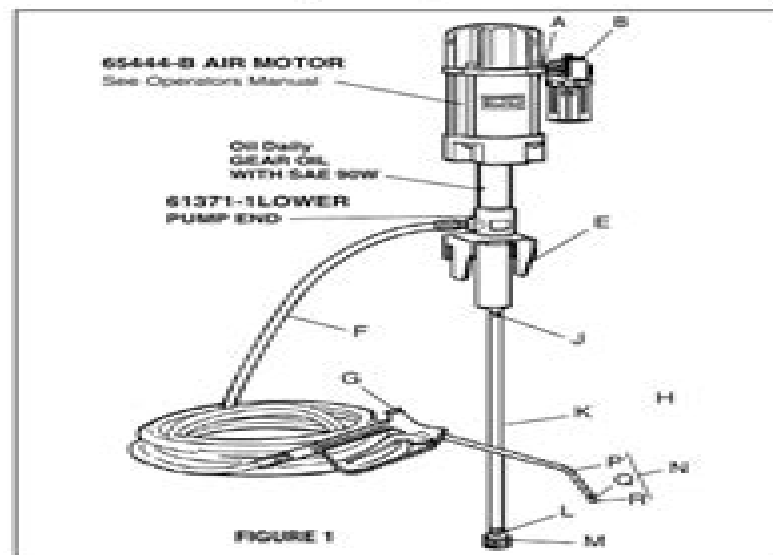
The 10:1 ratio double acting pump section is separated from the air motor to prevent any cleaning solution from coming in contact with and damaging the air motor.

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  |

# Ingersoll Rand 2132g Owners Manual

**Melroe/Ingersoll-Rand**



**Ingersoll Rand 2132g Owners Manual:**

*Timber Harvesting* ,1984

**Bobcat 453 (SN 515011001 & Up) Service Manual** Melroe/Ingersoll-Rand,1997

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