

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 ³ 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).

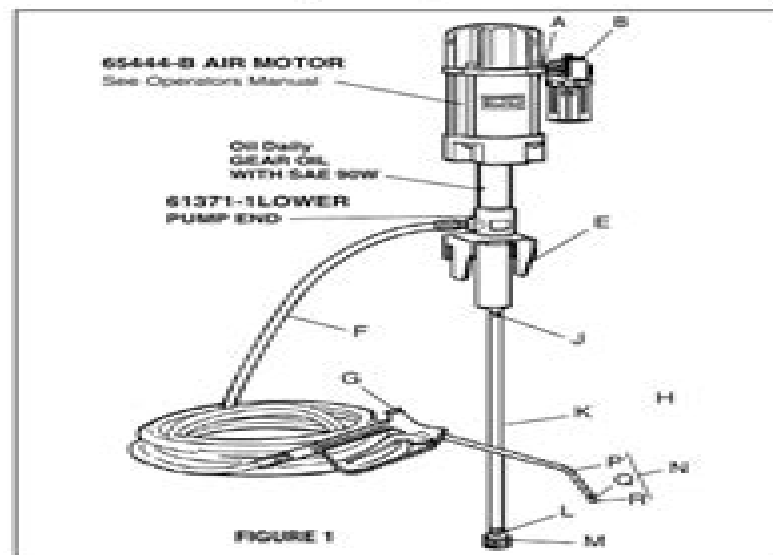
The 10:1 ratio double acting pump section is separated from the air motor to prevent any cleaning solution from coming in contact with and damaging the air motor.

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

Hu40 Ingersoll Rand Owners Manual

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Hu40 Ingersoll Rand Owners Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Hu40 Ingersoll Rand Owners Manual : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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