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ARO

Pumps for the Construction and Mining Industries



INGERSOLL-RAND FLUID PRODUCTS







For water removal on Construction and Mining Sites

Water on site or down the hole?

Need a submersible pump that can cope with mud, leaves, twigs, bilge, gunk and even sewage? The answer is the Ingersoll-Rand/Aro range of sump pumps.

Estudio

de Fluidos

Running on compressed air means there's no fuel tanks, electrical connections or burnt out motors to worry about.

Despite their compact size and light weight, their ultra-rugged construction can take plenty of abuse and still discharge over 750 l/min.

Try one on your toughest job and just see what a real pump can do.

- Simple design few moving parts
- Handles a wide variety of debris-laden applications
- Can also be used for simple transfer requiring high flows (750 l/min. average) with high discharge head (20 metres average)
- Self-priming
- Adjustable Impeller and Impeller Cover help maintain peak performance
- Closed-type Impeller promotes greater efficiency when pumping against high heads
- Ultra-rugged body construction ensures durability
- Lightweight and extremely portable
- Pressurised lubrication of the Impeller Shaft Seals prolongs operational life and resists leakage
- Patented Speed Controller is guaranteed for the life of the pump
- Totally submersible

TYPICAL APPLICATIONS

- Mining
- Construction
- Plant Machine Sumps



Specifications at 620 kPa air pressure.

•		•									
Model	Pump housing material		harge ap size	Weight	Height	Air consumption	Size of opening pump will pass	A Pipe tap	ir inlet Size hose recom-	Pipe tap	xhaust Size hose recom-
		NPT	BSP				through	size	mended	size	mended
		in	in	kg	mm	l/sec.	mm x mm	in	mm	in	mm
P237A1-EU	Iron	2½	-	21.8	448	50	222 x 222	3/4	19	11/4	32
P237A3-EU	Iron	-	2½	21.8	448	50	222 x 222	3/4	19	11/4	32
P35A1-EU	Iron	2	-	36.0	570	75	214 x 357	1	25	11/4	32
P35A3-EU	Iron	-	2	36.0	570	75	214 x 357	1	25	11/4	32

See Page 6 for Accessories and Service Kits







For water removal on Construction and Mining Sites

Flooded Worksite? We'll pump away your problems!

Known throughout industry as the "Unstallables", Ingersoll-Rand/Aro Diaphragm pumps have long been favourites with fluid handling professionals for their patented no-stall and ice-free operation, as well as a host of other design attributes.

Estudio

de Fluidos

To increase the range of applications, pre-assembled screen inlet pumps and retrofittable inlet kits are available to help tackle problems with unwanted and unavoidable debris.

- Stall-free, ice-free, debris-free fluid handling
- Available complete with screen or with extra retrofit screen kit
- Tough metallic construction in aluminium with stainless steel fasteners
- Screens constructed in carbon steel with e-coat finish
- No special manifold required screen comes ready installed on pump making it ready for immediate service

TYPICAL APPLICATIONS

- Construction
- Mining
- Chemical Process
- Industrial Maintenance
- Marine



PS20A-AAS-AAA









PS30A-AAS-AAA

Specifications at 620 kPa air pressure.

Model	Weight	Body construction	Valve type	Max. performance	Air inlet	Air exhaust	Fluid inlet/outlet	Air consumption	Solids max. Ø
	kg			ltr/min.				l/sec.	mm
WITH SCREENED IN	ILET								
PS15A-AAS-PAA	24	Aluminium	Ball	379	½" NPT	½" NPT	1½" NPT	65	6.4
PS15A-BAS-PAA	24	Aluminium	Ball	379	½" BSP	½" BSP	1½" BSP	65	6.4
PS20A-AAS-AAA	30	Aluminium	Ball	644	3/4" NPT	3/4" NPT	2" NPT	70	6.4
PS20A-BAS-AAA	30	Aluminium	Ball	644	¾" BSP	¾" BSP	2" BSP	70	6.4
PS30A-AAS-AAA	52	Aluminium	Ball	1041	34" NPT	¾" NPT	3" NPT	80	9.5
PS30B-BAS-AAA	52	Aluminium	Ball	1041	¾" BSP	¾" BSP	3" BSP	80	9.5
WITHOUT SCREENE	D INLET								
666150-322-C	23	Aluminium	Ball	379	½" NPT	1½" NPT	1½" NPT	65	6.4
666170-322-C	23	Aluminium	Ball	379	½" BSP	1½" BSP	1½" BSP	65	6.4
PD20A-AAP-AAA	29	Aluminium	Ball	644	34" NPT	1½" NPT	2" NPT	70	6.4
PD20A-BAP-AAA	29	Aluminium	Ball	644	¾" BSP	1½" BSP	2" BSP	70	6.4
PD30A-AAP-AAA	51	Aluminium	Ball	1041	3/4" NPT	1½" NPT	3" NPT	80	9.5
PD30A-BAP-AAA	51	Aluminium	Ball	1041	¾" BSP	1½" BSP	3" BSP	80	9.5

See Page 6 for Accessories and Service Kits





Air-Powered Lubrication Pump Packages

For Construction, Maintenance and Heavy Duty Lubrication

Need to oil or grease your machinery? We have powerful stall-free, ice-free answers!



Estudio

de Fluidos

Gear Oil, 5:1 Ratio, 3" Diameter Air Motor 60 litre (16 U.S. gallons) Portable Gear Oil Package

Includes: LM2305A-31 Basic Pump, 635190-3 Meter 635391-1 (flex) Control Handle, 640058-2 Dolly, 94421 Drum Cover 623501-6 Material Hose (1.8m).



LP3100-2



ARO-PAK® Self-Contained Lubricators

Holds 2.3kg (5lbs) medium pressure lubricant and 40 PSI air prime for portability. Air pressure helps dispense lubricant. Includes:

1.2m of ½" I.D. hose. High pressure control handle (517 bar).

Model No.

640110



54kg (120lbs) Filler Pump

2:1, 4:1, 7:1 Adjustable Ratio Used to fill grease gun and 640110 ARO• PAK

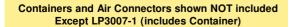
Includes:

72096 Drum Cover, Dust Cap and Chain

(640027 Follower Plate not included - order separately)

Model No.

611019-1



IMPORTANT

The 50:1 ratio grease packages listed have a maximum air inlet pressure of 10 bar

See Page 7 for Accessories and Service Kits



Grease, 50:1 Ratio, 3" Diameter Air Motor 18kg (35lbs) Grease Package

Includes:

LM2350E-21-B Pump 94420 Drum Cover with 94334 Handle 640095-2-B Follower Plate 624201-10 Material Hose (3m), 636077 Z-Swivel 76493 Adapter 636103 Booster Gun

Model No.

LP3001-1



27kg (60lbs) Grease Package

Includes:

LM2350E-61-B Pump 71740-1 Drum with Cover and Tie Down Brackets Portable Hand Cart 636111 Control handle 624401-4 Material Hose (1.2m).

Model No.

LP3007-1



54kg (120lbs) Grease Package

Includes

LM2350E-31-B Pump

94421 Cover

624201-10 Material Hose (3m),

636077 Z-Swivel

640057 Dolly

636103 Booster Gun

640165 Follower Plate 76493 Adapter.

Model No.

LP3003-1



181kg (400lbs) Grease Package

Includes: LM2305A-41-B Pump

94422 Drum Cover 624401-4 Material Hose (1.2m) 622201-3 Air Line Hose (0.9m)

Order Follower Plate 640015 - when required.

Model No.

LP3005-1



Air-powered High Pressure Cleaning Equipment

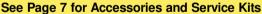
Time to clean up your act? We've got the power!

Spray Wash Pump Packages

Estudio

de Fluidos









4¹/₄" High Pressure Wall-Mounted Spray Package

Includes:
613100-1 Pump
61113 Wall Bracket
61139-1 208 litre
Suction Tube Assembly
622427-40 Material Hose (12m)
641523 Control Handle
61133 Spray Wand
TP6250-18 Spray Tip
L26241-010 Airline Lubricator.

Model No.

613104

8" High Pressure Wall-Mounted Spray Package

Includes:

613112-K36-B Pump
92460 Muffler
66554-3 Heavy Duty Cart
622702-10 Suction Hose (3m)
79198 Stainless Steel Inlet Strainer
79196 Material Outlet Manifold
622427-40 Material Hose (12m)
641523 Control Handle
61133-1 Spray Wand
TP8050-18 Spray Tip
651728 Heavy-Duty Air Filter
Regulator
Lubricator

Model No.

613117-B

The High-Power Cleaning Solution

Perfect for cleaning:

- Cars and Trucks
- Engines
- Construction Equipment
- Aircraft
- Farm Equipment
- Plant Structures
- Railway Equipment
- Fleet Vehicles
- Mining Equipment

With the application of:

- Degreasers
- Detergents
- Cleaning Solutions
- Water
- Metal Brighteners
- Aluminium Brighteners

Calcium Chloride Tyre-Fill Pump Package



Designed for the purpose of evacuating and filling tyres with calcium chloride ballast solution.

Package includes:

666100-441-C, 1" Ports Diaphragm Pump. (aluminium construction with neoprene diaphragms and Teflon® checks for compatibility with corrosive calcium chloride) 60154 Hose/Strainer/Gun Assembly Also includes Check Valve and all required clamps and related hardware.

See Page 7 for Accessories and Service Kits

Model No.

613201-2-C

Having trouble staying on the ground? We'll keep you down to earth!





Accessories and Service Kits

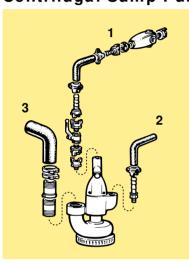
Pumps

Looking for pumping equipment to dry out your site? We're the single source supplier for all your needs!

Centrifugal Sump Pumps

Estudio

de Fluidos



Kit Part Nos.							
Series	Inlet	Exhaust	Discharge				
P35	251-K1	251-K2	251-K3				
P237	226-K1	251-K2	251-K3				

Air Inlet Kits

Pump overrun control shuts

material container is empty or line is broken. Quick set and reset feature included.

off air to pump when

Kit includes Piggyback

1 All Illictrate					
Part No.	Description	Quantity			
251-K1					
XM-26	Male Coupling 1"	3			
X-25	Hose Coupling 25mm	2			
G	Safety Collar 25mm	2			
8LUB16CA3	Lubricator	1			
XM-26	Male Coupling 1"	2			
6126	Valve 1"	1			
25-39	Hose 25mm	1			
226-K1					
XM-20	Male Coupling 3/4"	3			
X-19	Hose Coupling 19mm	2			
E	Safety Collar 19mm	2			
8LUB16CA3	Lubricator	1			
XM-26	Male Coupling 1"	2			
6120	Valve ¾"	1			
19-31	Hose 19mm	1			

Used With

1½" & 2"

Pumps

3" Pumps

1½", 2"

23644-400

635043

66084-1

637118-2

2 Exhaust Kits

Part No.	Description	Quantity
251-K2		
R-3326	Male Coupling for Hose	1
PDA125-SHC	Safety Collar	1
40-58-5M	Hose 40mm	1

3 Discharge Kits

Part No.	Description	Quantity
251-K3		
SF-CD	Fitting	1
251-KSBF	Female Hose Connector	1
251-SHC	Safety Collar	2
251-DH20	Discharge Hose 2"	1

For Sump Pump Repair Kits please refer to Operation and Maintenance Manuals

Diaphragm Pumps

ARO-STOP Valve



Air Line Connection Kit



High Flow Pump Air Motor Mufflers



Screened Inlet Adapter Kits



Filter/Regulator with gauge, pipe nipple and 1.5m section of air hose.	(Non-Metallic) 2" Metallic (Ball & Flap) 3"	66312 66109
Muffler helps reduce pump sound levels and assures ice-free operation. Model 94810 is recommended in continuous duty operations. Model 94117 is used in intermittent duty operations.	2", 3" Metallic Pumps (All other pump sizes, muffler included standard)	94810 (Cont. Duty) 94117 (Interm. Duty)
Carbon steel, E-Coated screen prevents unwanted solids from entering pump. Kit includes hardware for easy, quick attachment to	1½" Ports Aluminium Pump 2" Ports Aluminium Pump 3" Ports Aluminium Pump	67174-15 67174-20 67174-30

Air Section Repair Kits

2" & 3" Pumps 637302 Fluid Section Repair Kits 1½" Pumps 637124-22 2" Pumps 637309-AA 3" Pumps 637303-AA

pump

For complete Diaphragm Pump performance and dimensions, refer to catalogue no. 9333-P



1½" Pumps





Accessories and Service Kits

For Lubrication and High Pressure Cleaning Equipment and Tyre-Fill Pump Packages

High Pressure Grease Control Handles for LP3001, LP3007, LP3003 and LP3005



Description	Maximum Working Pressure bar	Fluid Inlet NPT	Fluid Outlet
For use with direct piping of product to wall station. Includes: 636111 high-pressure control handle 636077 "Z" swivel 624201-15 hose (4.6m)	345	½ (M)	Hydraulic Coupler
Model No.			615154
Dispenses lubricant at line pressure for lubricating grease fittings. Includes: Inlet material filter Curved nozzle with hydraulic coupler	517	½ (M) or ¾ (F)	Hydraulic Coupler
Remove the 1/8 (M) x 3/8 (M) adapter for			

For ARO-PAK 640110



High-pressure booster handle delivers line pressure for normal lubrication. Trigger booster feature delivers 689 bar to break loose tougher fittings. Includes:

Curved nozzle with hydraulic coupler Inlet material filter Manual pressure vent for easy disconnection.

Warning: Do not use with whip hose!

Model No.

Bung Adapter Seal Kit

Water tight seal kit makes Thunder usable in all working and weather conditions i.e. oil rigs. For oil package 67088-4

Model No. 67088

Tie-Down Bracket Kit

3/4 (F) porting

Model No.

Kit fixes/holds down cover on 60 litre/50kg. containers. Kit includes brackets, drum & tie rods and mounting hardware.

Model No. 640164

Airline Connection Kit

Includes "mini" air filter/regulator assembly. Kit includes piggyback, filter/regulator with gauge. pipe nipple and 5ft section of hose

Model No. 66073-1

Low Level Cutoff

¹⁄₂ (M)

or % (F)

For 2" 3:1 oil pump.

Model No. 67086

636111

Hydraulic

Coupler

636103

Part No.	Description	Inlet thread	Length	Maximum Working Pressure
			mm	bar
Hydraulic	Adapters			
629713	Extra capacity hydraulic extension adapter has flexible rubber hose. Use with standard hydraulic coupler	1/4 NPT (M)	304	345
636003	Hydraulic adapter has locking sleeve to fit standard diameter coupler	-	177	552
636039	Hydraulic adapter has locking sleeve for use on nozzle, hose or adapters wit $\%$ NPT (M). Push on, pull off connector fits standard diameter hydraulic fitting		-	552
636065	Needle point adapter has rubber tip	-	-	552
Standard	Hydraulic Couplers			
636027	Small diameter hydraulic coupler	1/8 NPT (F)	41	414
636028	Reversible jaw hydraulic coupler	1/8 NPT (F)	41	689
636030	Hydraulic coupler and tube	11/16 - 16 NPT (F)	-	
636037	Hydraulic coupler and tube	1/8 NPT (F)	159	
636046	Small diameter hydraulic coupler with ball check	½ NPT (F)	37	414

Repair Kits

517

Part No.						
Gear Oil an	d Grease Pumps for complete pump					
637226	For LP3100-2					
637227-B	For LP3001-1, LP3003-1, LP3005-1, LP3007-1					
Tyre-Fill Pu	mps					
637118-C	Air Motor					
637119-41-C	Fluid Section					
Wash Pumps						
61268	For Air Motor - 613104					
637001	For Fluid Section - 613104					
66614	For Air Motor - 613117-B					
637211-K33	For Fluid Section - 613117-B					





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High Pressure Cleaning



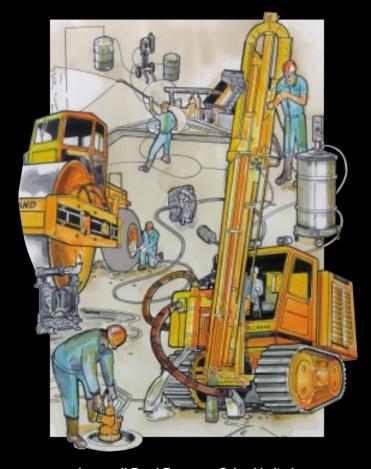
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Air Operated
Pumps for water
removal



Submersible Pumps



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Greasing and Oiling



PAGE 4

Calcium Chloride Tyre-Fill



PAGE 5

Portable Self-Contained Lubricators



PAGE 4

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