

ARO

EXPerT Series

2:1 High Pressure Diaphragm Pump

Ingersoll Rand/ARO High Pressure Diaphragm Pump line further enhances the EXP portfolio, providing customers with solutions that offer superior *Safety*, *Efficiency* and *Durability* for high-pressure, high-flow applications.



Safety

- Conductive polypropylene air motor provides superior protection from static electric
- Stainless steel wetted sections provides excellent protection from material fatigue/stress

Efficiency

- Maximum flow rate of 160 GPM (605.6 LPM)
- Eliminates waste of compressed air during operation, minimizing energy loss

Durability

- Sturdy bolted construction design prevents air and fluid leaks
- SimuShift™ & Quick Dump valve technologies ensure stall-free/ ice-free operation

Typical Application

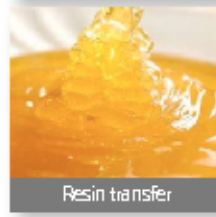
- High-viscosity fluids transfer
- High-discharge pressure transfer
- High-solidify fluids transfer
- Long-distance transfer



Filter press water removal



Ceramic slurry injection



Resin transfer



High-pressure/High-viscous

Technical Specifications

	PH15F-ASP-STT-A	PH20F-ASP-STT-B	PH30F-XXX-XXX-C
Weight lb (kg)	88 (39.9)	146 (66.2)	268 (121.6)
Max Air Inlet Pressure psi (bar)	100 (6.9)	100 (6.9)	100 (6.9)
Max Material Inlet Pressure psi (bar)	10 (0.69)	10 (0.69)	10 (0.69)
Max Material Outlet Pressure psi (bar)	200 (13.8)	200 (13.8)	200 (13.8)
Max Flow gpm (lpm)	63 (238.48)	92 (348.25)	160 (605.6)
Displacement per cycle Gal. (L) @ 100 psig	0.88 (3.33)	1.28 (4.8)	1.4 (5.3)
Suspended solids max. dia. in. (mm)	1/4 (6.4)	1/4 (6.4)	3/8 (9.5)
Sound Level db(A) @ 70 PSI, 53 cpm	75.6	77.0	83.0

Ordering Menu

PH	XX	F	-	XSP	-	S	X	X	-	X
	Port	Center Section		Connection		Seat Material	Ball Material	Diaphragm Material		
High Pressure	15 1.5"	F Conductive Polypropylene		A NPT		S Stainless steel	A Santoprene*	A Santoprene*		A 1.5"
Diaphragm Pump	20 2"						T PTFE	T PTFE/Santoprene		B 2"
	30 3"						C Hytrel*	C Hytrel*		C 3"

* PH30F-XXX-XXX-C only

Accessories

Service Repair Kits	PH15F-ASP-STT-A	PH20F-ASP-STT-B	PH30F-XXX-XXX-C
Fluid section service kits	637445-TT	637446-TT	637441-XX
Air motor section service kits	637389	637369	637369
Major air valve assembly	637390-7	637374-6	637374-6

Fluid Section Service Kits Ordering Menu



Fluid Section Service Kits Ordering Example

Diaphragm Model: PH30F-ASP-SAA-C

Service Kits: 637441-AA



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