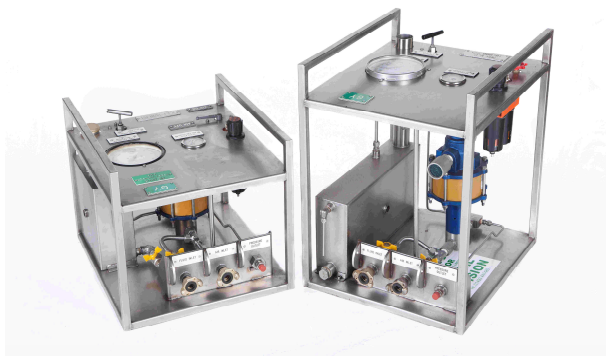




## CRYOGENIC TANK SERVICES (CTS) DATA SHEET

### Model 1 Series Air Operated Hydrostatic Test Pumps / Power Pack



**Air operated hydraulic pumps for pressure testing, chemical injection and hydraulic power.**

#### **Features**

- Infinitely variable output pressure and flow
- Will hold static pressure without generating heat or consuming power.
- Standard models are suitable for oil or water applications
- Well proven and trouble free operation
- Designed with the maintenance engineer in mind
- Low cost servicing
- Robust construction

#### **Air consumption**

28 scfm maximum (793 N.Ltr/M)

#### **Overall Dimensions**

18 1/2" x 21 1/2" x 17 1/2" (470mm x 550mm x 450mm high)

#### **Approximate Weight**

77 lb (35 Kg)

#### **Standard equipment**

- Air filter, lubricator, pressure regulator, pressure gauge and pump start/stop valve
- Inlet fluid strainer
- 6" (150mm) dia panel mounted pressure gauge
- Pressure isolation / release valve
- All interconnecting pipework and fittings
- Stainless Steel framework with lifting handles
- Stabbing Board – All connections on one side of the pump and operator on the opposite side



## SERIES PERFORMANCE CHARTS

### Approximate rate of discharge at air drive 100PSI (7 bar)

OUTPUT PRESSURE		AZ-1-19		AZ-1-36		AZ-1-58		AZ-1-107		AZ-1-140		AZ-1-187		AZ-1-275		AZ-1-425	
PSI	BAR	Ins <sup>3</sup> /Min	Ltr/Min	Ins <sup>3</sup> /Min	Ins <sup>3</sup> /Min	Ltr/Min	Ltr/Min	Ins <sup>3</sup> /Min	Ltr/Min	Ins <sup>3</sup> /Min	Ltr/Min	Ins <sup>3</sup> /Min	Ltr/Min	Ins <sup>3</sup> /Min	Ltr/Min	Ins <sup>3</sup> /Min	Ltr/Min
0	0	705	11.6	366	6.0	217	3.5	120	2.0	92	1.5	70	1.1	44	0.72	26	0.42
250	17	549	9.0														
500	34	476	7.8	268	4.4												
750	52	400	6.6														
1000	69	354	5.8	232	3.8	153	2.5	78	1.3								
1250	86	305	5.0														
1500	100	256	4.2	204	3.3												
1750	121	153	2.5														
2000	138	0	0	180	3.0	137	2.2	74	1.2	65	1.0						
2500	172	-	-	156	2.5							46	0.8				
3000	207	-	-	119	1.9	113	1.8	71	1.1					29	0.47		
3500	241	-	-	73	1.2	104	1.5										
4000	276	-	-	0	0	95	1.3	62	1.0	56	0.9						
4500	310	-	-	-	-	79	1.2										
5000	345	-	-	-	-	62	1.0					41	0.7			16	0.26
6000	414	-	-	-	-	0	0	54	0.9	50	0.8			25	0.41		
7000	483	-	-	-	-	-	-										
8000	552	-	-	-	-	-	-	44	0.7	43	0.7	36	0.6				
9000	620	-	-	-	-	-	-	38	0.6					24	0.39		
10000	690	-	-	-	-	-	-	27	0.4	37	0.6	32	0.5			15	0.24
12500	862	-	-	-	-	-	-	0	0	29	0.5			21	0.34		
15000	1034	-	-	-	-	-	-	-	-	0	0	24	0.4			13	0.21
20000	1360	-	-	-	-	-	-	-	-	-	-	0	0	18	0.29	12	0.19
25000	1724	-	-	-	-	-	-	-	-	-	-	-	-	13	0.21	10	0.16
30000	2068	-	-	-	-	-	-	-	-	-	-	-	-	0	0	6	0.13
40000	2758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	0.06
50000	3450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0

MODEL No.	AZ-1-19	AZ-1-36	AZ-1-58	AZ-1-107	AZ-1-140	AZ-1-187	AZ-1-275	AZ-1-425
VOL PER STROKE cu ins	1.385	0.766	0.464	0.245	0.188	0.138	0.096	0.061
VOL PER STROKE cc	22.7	12.6	7.6	4.0	3.1	2.3	1.6	1.0

### Typical hydraulic pressure - static condition

AIR DRIVE PSI/BAR	20 (1-4)		40 (2-8)		60 (4-1)		80 (5-5)		100 (6-9)	
	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR
AZ-1-19	330	22.8	700	48.3	1100	75.90	1500	103	1900	131
AZ-1-36	600	41.4	1400	96.6	2125	147	2825	195	3625	250
AZ-1-58	1000	68.9	2200	152	3400	234	4600	317	5800	400
AZ-1-107	2000	138	4200	290	6400	441	8500	586	10700	738
AZ-1-140	2400	166	5400	372	8300	572	11200	772	14000	966
AZ-1-187	3250	224	7250	500	11250	776	15000	1034	18750	1293
AZ-1-275	400	276	10500	724	16250	1121	21500	1483	27500	1897
AZ-1-425	8000	552	16500	1138	25500	1759	34000	2345	42500	2931

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