

QUINCY

Reciprocating
Rotary Screw
Dryers/Filtration/Drains
Industrial Vacuum Pumps
Climate Control

ALMIG

Rotary Screw
Centrifugal
Dryers/Filtration/Drains

POWEREX

Reciprocating
Scroll
Industrial/Medical
Climate Control

SULLIVAN/PALATEK

Rotary Screw
Portable Diesels

CURTIS

Reciprocating
Rotary Screw
Climate Control

JENNY/EMGLO

Reciprocating
Sprinkler

CAS

Reciprocating
Rotary Screw

SAYLOR/BEALL

Reciprocating

BECKER

Vacuum Pumps
Industrial/Medical

ARROW

Filtration

BEKO

Dryers/Filtration/Drains
Dew Point/Flow Meters
Oil/Water Separators

DOMNICK HUNTER

Dryers/Filtration/Drains
Oil/Water Separators
Chillers

ZEKS

Dryers/Filtration/Drains
Oil/Water Separators

SMC

Dryers/Filtration/Drains
Chillers

ULTRACHEM

Synthetic Lubricants
Gear Lubricants

FLORIDA PNEUMATIC

Pneumatic Tools

UNIVERSAL

Pneumatic Tools

PREVOST

Aluminum Piping
Hose Reels
Quick Disconnects

AIRCOM

Aluminum Piping

PENWAY/MANCHESTER

Receiver Vessels

REELCRAFT

Hose/Lubricant/Electric Reels

SILVENT

Energy Efficient Nozzles
Air Guns

COILHOSE

Hose Assemblies
Quick Disconnects

MOTIVAIR

Cooling System/Chillers
Pump Stations

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Maine Air Power Inc., 3100 Hotel Road, Auburn, Maine 04210



pipe sizes for compressed air lines

Air c.f.m.	Length of Pipe Lines in Feet							
	25	50	75	100	150	200	250	300
1	½	½	½	½	½	½	½	½
2	½	½	½	½	½	½	½	½
3	½	½	½	½	½	½	½	½
5	½	½	½	½	½	½	½	½
10	½	½	½	¾	¾	¾	¾	¾
15	½	¾	¾	¾	¾	¾	¾	¾
20	¾	¾	¾	¾	¾	¾	¾	¾
25	¾	¾	¾	¾	1	1	1	1
30	¾	¾	¾	¾	1	1	1	1
35	¾	¾	1	1	1	1	1	1
40	¾	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1
60	1	1	1	1	1¼	1¼	1¼	1¼
70	1	1	1	1	1¼	1¼	1¼	1¼
80	1¼	1¼	1¼	1¼	1½	1½	1½	1½
100	1¼	1¼	1¼	1¼	1½	1½	1½	1½

Check all piping and fittings regularly to avoid "leaks" in the system.

Gauge Pressure at Orifice Pounds	DIAMETER OF ORIFICE												
	¼"	½"	⅜"	⅝"	¾"	1"	1¼"	1½"	1¾"	2"	2½"	3"	
	DISCHARGE IN CUBIC FEET OF FREE AIR PER MINUTE												
15	.105	.420	1.68	6.72	26.9	60.5	108	168	242	329	430	672	968
20	.123	.491	1.96	7.86	31.4	70.7	126	196	283	385	503	786	1132
25	.140	.562	2.25	8.98	35.9	80.0	144	225	323	440	575	898	1294
30	.158	.633	2.53	10.1	40.5	91.1	162	253	365	496	648	1013	1458
35	.176	.703	2.81	11.3	45.0	101.	180	281	405	551	720	1125	1620
40	.194	.744	3.10	12.4	49.6	112.	198	310	446	607	793	1239	1784
45	.211	.845	3.38	13.5	54.1	122.	216	338	487	662	865	1352	1946
50	.229	.916	3.66	14.7	58.6	132.	235	366	528	718	938	1466	2111
60	.264	1.06	4.23	16.9	67.6	152.	271	423	609	828	1082	1691	2435
70	.300	1.20	4.79	19.2	76.7	173.	307	479	690	939	1227	1917	2761
80	.335	1.34	5.36	21.4	85.7	193.	343	536	771	1050	1371	2142	3085
90	.370	1.48	5.92	23.7	94.8	213.	379	592	853	1161	1516	2369	3411
100	.406	1.62	6.49	26.0	104.	234.	415	649	934	1272	1661	2595	3737
125	.494	1.98	7.90	31.6	126.	284.	506	790	1138	1549	2023	3161	4552

Air Receiver Capacity in Cubic Feet of Free Air at Various Pressures

Capacity		Pressures (in pounds)					
Gals.	Cu./Ft.	75	100	125	150	200	250
30	4.0	20.5	27.3	34.2	41.0	54.7	68.3
60	8.0	41.0	54.7	68.2	82.0	109.4	136.7
80	10.7	54.7	73.0	91.2	109.4	146.0	182.4
120	16.1	82.0	109.3	136.2	164.0	218.7	273.3
200	26.8	136.7	182.2	227.8	273.4	364.5	455.6
240	32.2	164.0	218.7	273.4	328.0	437.4	546.7
400	53.6	273.4	364.5	455.6	546.7	729.0	911.2
660	88.4	451.0	601.4	751.7	902.1	1202.8	1503.4
1060	142.0	724.4	965.9	1207.3	1448.8	1931.7	2414.5
1600	214.4	1093.4	1457.9	1822.4	2186.9	2915.8	3644.8
2560	343.0	1749.0	2333.0	2916.0	3499.0	4665.0	5832.0

Capacities at other pressures are exactly in proportion.

Example: at 200 lbs. pressure the capacity of a given size tank is exactly double the capacity at 100 lbs. pressure.

Gallons = cu. ft. / .134 Cu. Ft. = Gallons x .134

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