

Technical Bulletin

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Average Water Usage & Cost of Operation for Dry Doc & System Series Refrigerated Compressed Air Dryers

Dryer Size (in SCFM)	GPM	Operating Cost Per Month @ \$.007 Per Gallon ⁵
80 ¹	0.02	\$ 1.01
120 ²	0.03	\$ 3.02
150 ²	0.03	\$ 3.23
200 ³	0.04	\$ 5.38
250 ³	0.05	\$ 6.72
300 ⁴	0.05	\$ 14.11
375 ⁴	0.06	\$ 16.93
500 ⁴	0.09	\$ 25.40
600 ⁴	0.11	\$ 31.05
750 ⁴	0.15	\$ 42.34
1000 ⁴	0.16	\$ 45.16
1200 ⁴	0.24	\$ 67.74
1500 ⁴	0.27	\$ 76.20
2000 ⁴	0.36	\$ 101.60

Note on Employee Water Usage

The average employee uses the toilet six times a day. They'll wash their hands each time, plus once before lunch and once before going home, taking an average time of 1 minute and 15 seconds.

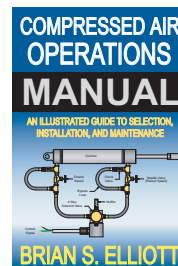
The average toilet will use 2.6 gallons per flush and the average sink 3.25 gallons per minute.⁶ Therefore, an average employee will use 48.1 gallons of water per day. This equates to a cost of \$9.42 per month, per employee. If your company has 20 employees, then the monthly water costs associated with personnel is \$188.40. By comparison, the monthly water costs associated with a 250 SCFM Air Options dryer is only \$6.72 or about 3% of what your employees are using.

1. Based on a 8 hour work day, 20 day work month, 75% compressor duty cycle.
2. Based on a 16 hour work day, 20 day work month, 75% compressor duty cycle.
3. Based on a 16 hour work day, 20 day work month, 100% compressor duty cycle.
4. Based on a 24 hour work day, 7 days per week, 100% compressor duty cycle.
5. Average commercial & industrial water rate for the City of Houston Texas.
6. ASME-ANSI Standard A112 (Average water usage of both low and high flow fixtures)

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Comprehensive information on compressed air systems is provided in the book "**Compressed Air Operations Manual**" by Brian S. Elliott, ISBN: 0-07-147526-5 Published by the McGraw-Hill Book Co.



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