

Water Conservation for On-Premise Laundries



Milnor's model 30022 V6J washer-extractor 60 lb. capacity with RinSave™ water conservation technology

Current economic conditions have increased healthcare facilities' focus on operating costs. According to healthcare operators, of particular interest is back-of-the-house operations — including the on-premise laundry.

Efficient on-premise laundries require careful management of energy, water, sewer and labor costs. The table below illustrates typical direct operating costs of an on-premise laundry designed to service a 120 bed facility.

ESTIMATED DIRECT OPERATING COSTS						
	Day	Week	Annual			
Labor	\$ 136.50	\$ 956	\$ 49,686			
Water & Sewer	\$ 15.92	\$ 433	\$ 22,512			
Natural Gas	\$ 61.84	\$ 309	\$ 16,080			
Electricity	\$ 11.59	\$ 58	\$ 3,013			
Wash Chemistry	\$ 14.81	\$ 74	\$ 3,850			
Total	\$ 241	\$ 1,830	\$ 95,141	Cost/lb.	\$ 0.221	

Table 1.0 The above operating costs will vary greatly throughout the USA depending upon the municipality. Labor costs are based upon \$10.00 per hour with 30% fringe benefits.

Recent advancements in washer technology have made it possible to reduce both process time and water/sewer costs associated with on-premise laundry operations. The breakthrough specifically involves the best use of industrial washer cylinder design with high MAF (mechanical action factor), and generous perforations in the cylinder drum coupled with software to develop a previously undiscovered “sweet spot” processing speed.

This innovative process, called RinSave™ water saver, eliminates up to two high level rinses (.4 gallons per pound processed) and up to 6 minutes in the wash formula. RinSave water saver saves labor, water, sewer and electricity. As table 1.0 above illustrates, labor and water/sewer costs are the largest direct operating expenses in the laundry. RinSave™ water saver conserves water — further substantiating your facility's green program — and is infinitely sustainable without further investment.

	Lbs./Hour @ 1.5 loads/Hr	Lbs./Day @ 8 Hrs/Day	Lbs./Year (365 days)	Annual Water Savings @ .4 gal./lb. RinSave™	Annual Savings with RinSave™
Two 80 lb. Milnor washers	240 lbs.	1,920 lbs.	700,800 lbs.	280,320 gallons	\$ 2,211.72
Savings to heat water	→→→	→→→	→→→	@ 50° Rise	\$ 1,144.18
				Annual Savings	\$ 3,355.90



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Estimated savings with laundry operating 10 hours per day:

	Lbs./Hour @ 1.5 loads/Hr	Lbs./Day @ 10 Hrs/Day	Lbs./Year (365 days)	Annual Water Savings @ .4 gal./lb. RinSave™	Annual Savings with RinSave™
Two 80 lb. Milnor washers	240 lbs.	2,400 lbs.	876,000 lbs.	350,400 gallons	\$ 2,764.66
Savings to heat water	→→→→	→→→→	→→→→	@ 50° Rise	\$ 1,430.22
				Annual Savings	\$ 4,194.88

The above figures do not include any labor savings although wash formulation will be reduced up to 6 minutes. If dryer capacity is available, it is reasonable to assume that over one hour of production per day can be saved. **Estimated savings over the average life of the washer (20 years) is \$84,000 based on national average cost for water, sewer and natural gas.**

Hotel owners/operators, healthcare facilities and laundry chemical suppliers have fully embraced RinSave™ water saver. Milnor, the firm that developed this technology, states, “We believe that the market launch of RinSave™ is perfectly matched for today’s economic environment. And RinSave™ water saver is a standard feature on all Milnor V series (7 speeds) washers ranging in capacity from 40 to 160 lbs. — offered at no additional cost to the facility. This may be the biggest innovation in washer technology in the past 20 years! It fits perfectly into a healthcare facility’s on-going green program to reduce the carbon footprint of the building. Energy management programs, Green Lodging News and energy conservation organizations welcome this advancement in industrial laundry washers.”



Milnor 40, 60, 80, 100, 140 and 160 lb. capacity “V Series” 7 speed washers all have RinSave™ Water Conservation Technology

National average costs used for water, sewer and natural gas calculations are:

Water Cost	\$3.04 per 1,000 gallons
Sewer Cost	\$4.85 per 1,000 gallons
Therm Cost	\$.95 per 100,000 BTUs

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