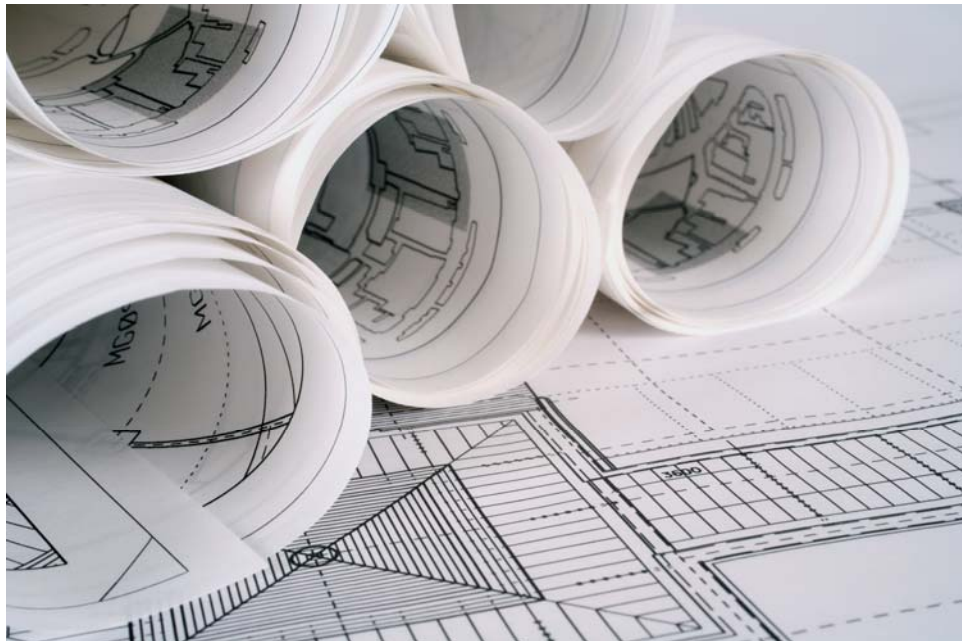




ARCHITECT LAUNDRY PLANNING FILE



Laundry Systems for hotels and motels

WHY INSTALL AN ON-PREMISES LAUNDRY?

1. Launder everything on premises.

A MILNOR on-premises laundry can handle all of a hotel/motel's clean fabric needs in a simple manner. MILNOR washer-extractors can process bath and bed linens, blankets, pillows, restaurant and banquet napery, and kitchen linen, plus such items as employee uniforms, slip covers and cleaning rags and mops. Many types of rugs and drapes can be processed in a MILNOR on-premises laundry.

2. Distinctive linens build prestige.

Many hotel and motel operators have enhanced their image of quality through tasteful fabric selection. Everything from linen to drapes can be selected in the colors and patterns of your choice.

3. Get more use from less inventory.

An on-premises laundry provides more use from less inventory. Table napery, bath linen, and other goods can be laundered immediately after use and be ready again in about an hour if necessary. Smaller inventories mean less storage space and more money for investment elsewhere.

4. You won't be caught short.

On-premises laundering eliminates "caught short" situations. It gives you a ready supply of towels, sheets, napkins, tablecloths, and uniforms. This is especially important during weekends and holidays, when outside services are not available.

5. Control quality, sanitation.

On-premises laundering assures quality processing because you are in control. You can prolong fabric life by using a distinct formula for the specific degree of soil. MILNOR's E-P Plus[®] washer-extractors make this easy, with several specific formulas developed and field-tested by chemists for hotels and motels. MILNOR washer-extractors also combine commercial washing action with the ability to wash at precise temperatures for different soil conditions.

WHAT IS NEEDED FOR AN ON-PREMISES LAUNDRY?

1. Equipment

Operating a hotel/motel on-premises laundry is simple. Washer-extractor, dryer, sink, folding table, supplies and, in some cases, a small ironer are generally all you need. Often, an institution's existing hot water, gas and electrical services are sufficient. An on-premises laundry is basically an extension of your present services.

A top quality washer-extractor, with a proven track record in commercial use, brings professional laundering ability to your institution. It will make better use of water and soap, improve washing quality, and handle bulky items. It's best to get a machine with a large cylinder, which provides the ability to launder items such as pillows, rugs and draperies.

Dryers can use gas, steam or electric heat (gas is regarded as the most efficient). For faster drying and less wrinkling of polyester materials, it is generally desirable for the dryer to be rated at a slightly larger capacity than the washer-extractor. Small ironers are available for hotels and motels when the need for finished table linen is critical. Hotels with 200 or more rooms generally find a full-sized ironer reduces labor while also increasing the quality of finished goods. An area for folding is necessary for no-iron goods. After finishing, the items simply have to be stored.

2. Space

An on-premises laundry doesn't require much space. An existing storage room is adequate for many facilities. An unproductive room with a poor location may also be used or a combination of these rooms could be used in a large institution. A larger, central laundry can serve affiliated facilities near each other. A MILNOR dealer's laundry-planning department provides specially prepared layout drawings for facilities.

3. Labor

In small hotels and motels there is no need for additional help. Existing housekeeping employees can handle the laundry during the slower parts of the day. Equipment that is easy to operate is essential to maintain consistent quality and production. MILNOR's E-P Plus machines are particularly easy to use. The operator simply loads the machine, pushes a button to select the formula, pushes the start button, and can go on to other tasks since the machine requires no more attention.

WHAT SHOULD YOU LOOK FOR IN A WASHER-EXTRACTOR?

1. Easy operation

The washer-extractor you select should have easy, automatic controls that make operation simple and free the operator to handle other duties. With MILNOR's preprogrammed E-P Plus machines, the operator simply matches the type of goods being loaded to the formula named for these goods ("towels", for example), then pushes a button. Operation of field-programmable formulas is similar. Formulas on the alphanumeric display can be named to match goods, making selection easy. Because so little judgment is required, new employees get the knack quickly. Substitute employees can take over with ease, too.

Automatic supply injection further reduces operator responsibility and helps ensure consistent quality. MILNOR machines readily accept liquid chemicals, making hookup fast and easy. Other factors to look for are a large, accessible door for fast loading/unloading, and door safety interlock which prevents opening while the machine is operating.

2. Laundering quality

Washing flexibility should not be sacrificed for operation simplicity. Only a commercial washer-extractor, with professional tumble washing action, can properly clean items like heavily-soiled kitchen and restaurant linen.

A cylinder with a large diameter should be among the top priorities when choosing a washer-extractor. The large diameter provides the lift and drop action necessary to clean hard-to-laundry items. When comparing machines, compare actual cylinder dimensions and specific cubic foot volumes.

Also, look for microprocessor controls, which give a greater range of processing choices as well as more accurate control over how goods are processed. The preprogrammed formulas in MILNOR machines were developed specifically for the needs of hotel/motel laundries. They are not common-denominator formulas. The formulas differ in number, type, time, and temperature of baths, as well as supply injection. By pushing a button, these formulas can be adjusted for either permanent press or all-cotton fabrics. The machines are available in 25 to 160 lb. capacities.

3. Heavy duty construction

Rugged construction -- from top quality materials -- is imperative if you expect long-term service. Check competitive brands to see if their construction stands up to MILNOR specifications. Compare spec literature. There can be a big difference in quality.

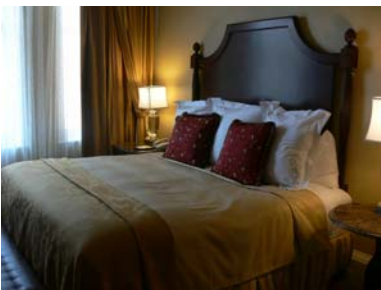
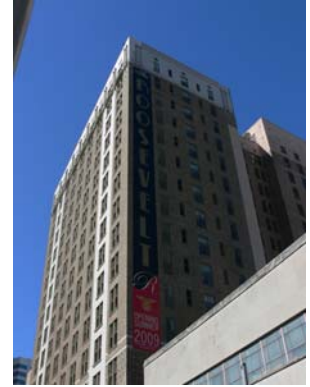
MILNOR machines stand apart from others with features like:

- large, tapered roller bearings and a triple shaft seal to shield the bearings from water
- the exclusive use of continuous, rather than spot, welding for greater strength and reliability
- the simplicity and dependability of heavy duty, single-speed motors
- pre-extract load balancing speed to reduce vibration and extend machine life, and
- a console constructed of heavy gauge materials

The Roosevelt New Orleans, Waldorf=Astoria Collection: History Restored and Grandeur Maintained

By: Katie Pellerin

Louisiana former Governor Huey P. Long was known for his compelling stump speeches and questionable political practices, but a lesser-known legacy is his contributions to the state's highways and bridges. Before he took office, Louisiana had only 331 miles of paved roads. Along with tax reform and a literacy initiative, Governor Long set out to have over 3,000 paved miles of highway for his constituents to conduct business, travel, and entice tourists. One of these new paved highways was Airline Highway, connecting Baton Rouge to New Orleans. It is on this 80 mile highway that Pellerin Milnor Corporation's headquarters still is located today. Governor Long used The Roosevelt Hotel as his personal governor's mansion while in New Orleans—renting out the 12th floor suite for his staff and himself!



In June 2009, The Roosevelt New Orleans, Waldorf=Astoria Collection reopened its doors after a \$145 million renovation to restore the property to its glory days, when politicians and movie stars rubbed elbows in the famous Sazerac Bar. In keeping with its company standards in excellence, the hotel purchased Milnor equipment to service their various linen needs.

The 504-room hotel has two restaurants, one café, and a dessert bar all with unique linens and uniforms. Like all Waldorf=Astoria Collection properties, The Roosevelt New Orleans' linens are 600 thread count cotton sheets, with logo-embossed coverlets, Euro shams, and standard shams. The laundry also processes the staff uniforms from the three restaurants, housekeeping and guest services using four NEW 42030 V6J (160 lb. capacity) washer-extractors, the laundry includes one 30022 V6J (60 lb.



capacity) washer-extractor to handle smaller, more delicate items, like the embroidered pillow shams. These washer-extractors have RinSave™ water saver feature, and the 42030 V6J washer-extractor has ExactXtract™ extraction optimizer. With these energy saving options, the hotel's water consumption and dryer fuel is significantly lower than hospitality installations without these unique

Milnor features. As a result of the higher RPM in the extraction cycle and fewer intermediate rinse steps, the laundry can process more loads per shift for less money spent in utilities. Also installed are four M190 gas dryers with one M75 gas dryer.

The laundry staff is keenly aware of every item (including staff uniforms) that arrives in the laundry. With the help of Milnor machinery and stringent pre-sorting, the staff maintains accountability for each and every luxury piece of linen—double checking quality control of each load before it is transported to the flatwork side.



Currently, the laundry operates in one shift per day (5:00am-4:30pm) with 12 full-time employees (only three had previous laundry experience). Due to the efficiencies and cost-effectiveness, the hotel has opted to process their food and beverage linens, so the hotel will expand to more employees. After three months in operation, hotel management is looking to expand their laundry facility with more flatwork machines and washers.

Keeping these goods organized and returned clean and in-time for the next shift is challenging, but necessary to the hotel's image of excellence. Every laundry staff member understands that each towel, sheet, and wash cloth must be accounted for at the end of the day. The laundry staff has been trained to be efficient and discriminating with each load. The operators pull out one sheet at a time and lay it across the carts—this practice eliminates another sort process before going to the flatwork side.

For more information on laundries like this one or on Milnor's energy saving options, please visit www.milnor.com or call 1-800-469-8780.



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HOTEL-MOTEL WASHER-EXTRACTOR CAPACITIES

	Weight	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR
	In	25 lb.	35 lb.	40 lb.	45 lb.	60 lb.	80 lb.	100 lb.	140 lb.	160 lb.	275 lb.
	Lbs.	models	models	models	models	models	models	models	models	model	model
King sheets ^S	2	13	18	20	23	30	40	50	70	80	138
Queen sheets ^S	1.9	13	18	21	24	32	42	53	74	84	145
Double sheets ^S	1.8	14	20	23	26	34	46	57	80	91	157
Twin sheets ^S	1.3	20	28	32	36	48	64	80	112	128	220
Pillow cases ^S	0.3	100	140	160	180	240	320	400	560	640	1100
Pillow cases ^L	0.3	96	135	154	173	231	308	385	538	615	1058
Bed Spreads (Double)	3.5	7	10	11	13	17	23	29	40	46	79
Duvet Covers (Double)	3.7	7	9	11	12	16	22	27	38	43	74
Duvet Covers (Queen)	3.9	6	9	10	12	15	21	26	36	41	71
Duvet Covers (King)	4.4	6	8	9	10	14	18	23	32	36	63
Blankets	2.2	11	16	18	20	27	36	45	64	73	125
Bed pads	2.8	9	13	15	16	22	29	36	51	58	100
Pillows	1.6	16	22	25	28	38	51	63	89	101	174
Bath towels ^S	0.4	63	88	100	113	150	132	250	350	400	688
Bath towels ^P	0.5	46	65	74	83	111	200	185	259	296	509
Hand towels ^S	0.2	139	194	222	250	333	148	556	778	889	1528
Hand towels ^P	0.2	167	233	267	300	400	444	667	933	1067	1833
Wash cloths ^S	0.1	417	583	667	750	1000	533	1667	2333	2667	4583
Wash cloths ^P	0.1	250	350	400	450	600	1333	1000	1400	1600	2750
Bath mats	0.5	50	70	80	90	120	160	200	280	320	550
Table cloths (54x54)	0.7	34	48	55	62	82	110	137	192	219	377
Table cloths (72X 72)	1.2	22	30	35	39	52	70	87	122	139	239
Napkins (20x20)	0.12	208	292	333	375	500	667	833	1167	1333	2292
Dress (Uniforms)	0.7	36	50	57	64	86	114	143	200	229	393
Jackets (attendants)	0.75	33	47	53	60	80	107	133	187	213	367
Aprons (bib)	0.4	63	88	100	113	150	200	250	350	400	688
Aprons (tea)	0.2	125	175	200	225	300	400	500	700	800	1375
Pants	1.15	22	30	35	39	52	70	87	122	139	239
Shirts	0.5	50	70	80	90	120	160	200	280	320	550
Draperies (84x96)	5.91	4	6	7	8	10	14	17	24	27	47
Entry mats (36x60)	7.99	3	4	5	6	8	10	13	18	20	34
Furniture covers	2.08	12	17	19	22	29	38	48	67	77	132
Cleaning rags	0.11	227	318	364	409	545	727	909	1273	1455	2500
Mop heads 12"	0.5	50	70	80	90	120	160	200	280	320	550
Mop heads 24"	1.1	23	32	36	41	55	73	91	127	145	250

^S=Standard ^L=Luxury ^P=Plush, extra thick

These figures are based on sample items. Weights and sizes of some brands differ, and therefore the figures should be used only as guidelines

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B22SL76012/10202



Laundry Systems for schools, colleges, clubs and pro teams

WHY INSTALL AN ON-PREMISES LAUNDRY?

1. Launder everything on premises.

A MILNOR on-premises laundry can handle all of an athletic facility's clean fabric needs in a simple manner. MILNOR washer-extractors can process game, practice and physical education uniforms, towels, socks, jocks, undershirts and sweatsuits, plus such items as mop heads, rags, protective pads, tennis and basketball shoes, and many types of dummy and sled covers.

2. You won't be caught short.

On-premises laundering eliminates "caught short" situations. It gives you a ready supply of towels, socks, jocks and undershirts. This is especially important during weekends and holidays, when outside services are not available.

3. Get more use from less inventory.

An on-premises laundry provides more use from less inventory. Smaller stocks meet your needs since you are no longer dependent on pickup and delivery. Towels, socks and undershirts can be laundered immediately after use and be ready again in about an hour if necessary. Smaller inventories mean less storage space and more money for investment elsewhere.

4. Control quality, sanitation.

On-premises laundering assures quality processing because you are in control. You can prolong fabric life by using a distinct formula for the specific degree of soil. MILNOR's E-P Plus[®] washer-extractors make this easy, with several specific formulas developed and field-tested by chemists for athletic facilities.

5. Minimize staph infection.

Because items in an athletic facility are often used from a common inventory, it is important to maintain strong, sanitary safeguards. Milnor washer-extractors, which combine commercial washing action with the ability to wash at high temperatures, can help prevent staph contamination of laundry. Besides helping prevent staph infection, immediate, professional laundering of equipment in an on-premises laundry also keeps the locker room better smelling since foul-smelling equipment goes straight to the laundry.

WHAT IS NEEDED FOR AN ON-PREMISES LAUNDRY?

1. Equipment

Operating an athletic on-premises laundry is simple. Washer-extractor, dryer, sink, folding table and supplies are generally all you need. Often, an institution's existing hot water, gas, and electrical services are sufficient. An on-premises laundry is basically an extension of the locker room.

A top quality washer-extractor, with a proven track record in commercial use, brings professional laundering ability to your institution. It will make better use of water and soap, improve washing quality, and handle bulky items. It's best to get a machine with a large cylinder, which provides the ability to launder items such as uniforms, mop heads, and cleaning rags.

Dryers can use gas, steam, or electric heat (gas is regarded as the most efficient). For faster drying and less wrinkling of polyester materials, it is generally desirable for the dryer to be rated at a slightly larger capacity than the washer-extractor. An area for folding is necessary, too. A 2' x 6' table proves sufficient for most institutions. After folding, the items simply have to be stored.

2. Space

An on-premises laundry doesn't require much space. An equipment room or an existing storage room is adequate for many facilities. MILNOR washer-extractors have been installed in corners, walk-in closets, basements and garages. A MILNOR dealer's laundry planning department provides specially prepared layout drawings for large facilities at no charge.

3. Labor

In some institutions, there is no need for additional help. Existing employees can handle the laundry during the slower parts of the day. In schools, labor can often be recruited from the student body, using free tickets to athletic events as inducements. Equipment that is easy to operate is essential to maintain consistent quality and production. MILNOR's E-P Plus machines are particularly easy to use. The operator simply loads the machine, pushes a button to select the formula, pushes the start button, and can go on to other tasks since the machine requires no more attention.

WHAT SHOULD YOU LOOK FOR IN A WASHER-EXTRACTOR?

1. Easy operation

The washer-extractor you select should have easy automatic controls that make operation simple and free the operator to handle other duties. With MILNOR's preprogrammed E-P Plus machines, the operator simply matches the type of goods being loaded to the formula named for these goods ("towels", for example), then pushes a button. Operation of field-programmable formulas is similar. Formulas on the alphanumeric display can be named to match goods, making selection easy. Because so little judgment is required, new employees get the knack quickly. Substitute employees can take over with ease, too.

Automatic supply injection further reduces operator responsibility and helps ensure consistent quality. MILNOR machines readily accept liquid chemicals, making hookup fast and easy. Other factors to look for are a large, accessible door for fast loading/unloading, and a door safety interlock which prevents opening while the machine is operating.

2. Laundering quality

Washing flexibility should not be sacrificed for operation simplicity. Only a commercial washer-extractor, with professional tumble washing action, can properly clean ground-in dirt and grass and blood stains.

A cylinder with a large diameter should be among the top priorities when choosing a washer-extractor. The large diameter provides the lift and drop action necessary to clean hard-to-laundry items. When comparing machines, compare actual cylinder dimensions and specific cubic foot volumes.

Also, look for microprocessor controls which give a greater range of processing choices as well as more accurate control over how goods are processed. The pre-programmed formulas in MILNOR machines were developed specifically for the needs of healthcare facilities. They are not common-denominator formulas. The formulas differ in number, type, time and temperature of baths, as well as supply injection. By pushing a button, these formulas can be adjusted for either permanent press or all-cotton fabrics. The machines are available in 25 to 160 lb. capacities.

3. Heavy duty construction

Rugged construction -- from top quality materials -- is imperative if you expect long-term service. Check competitive brands to see if their construction stands up to MILNOR specifications. Compare spec literature. There can be a big difference in quality.

MILNOR machines stand apart from others with features like:

- large, tapered roller bearings and a triple shaft seal to shield the bearings from water
- the exclusive use of continuous, rather than spot, welding for greater strength and reliability
- the simplicity and dependability of heavy duty, single-speed motors
- pre-extract load balancing speed to reduce vibration and extend machine life, and
- a console constructed of heavy gauge materials

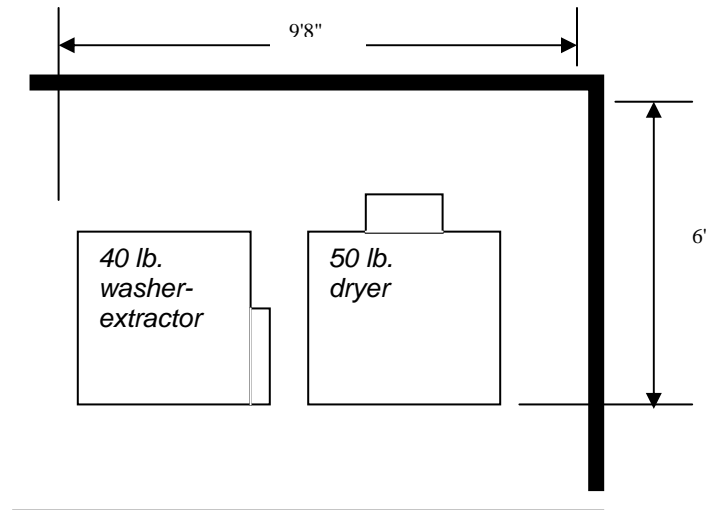
Sample Layouts for athletic laundries



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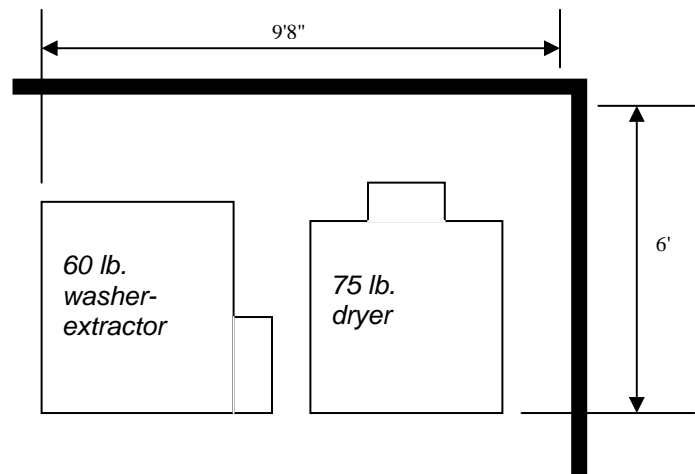
100-130 towels per hour

MILNOR model 30015 V7J
washer-extractor



150-185 towels per hour

MILNOR model 30022 T5X
washer-extractor



Towel volumes shown with layouts should be used only as guidelines, as towel weights and sizes differ. Figures are based on 1.25 loads an hour. Sample layouts should not be used for construction, as individual requirements and space availability will vary.

An on-premises laundry can also handle many other items in-house...

... including athletic clothing, washable athletic shoes, staff and maintenance uniforms, mats and throw rugs, wiping cloths, mop heads, and restaurant linens. Service charges for laundering members' clothing can help pay for the machines.

B22SL80004/10202

American LAUNDRY NEWS

JUNE 2010

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Birmingham-Southern College tackles football laundry

BIRMINGHAM, Ala. — Anyone from Alabama can tell you that college football is the state's most revered pastime. And, as recently as a few years ago, Birmingham-Southern College (BSC) students had to choose between Alabama and Auburn to get their football fix.

But in 2007, after a 68-year hiatus (the school didn't field a team from 1940 through 2006), Birmingham-Southern College Panther fans had their own squad to cheer for again.

Under the direction of veteran Athletic Director Joe Dean and newly elected President David Pollick, the college began hiring coaches, scouting players, and acquiring the necessary equipment to accommodate its resurrected football program.

With 125 football players and all their laundry, Birmingham-Southern understood that



Instead of segregating loads by linen type, the team uses Laundry Loops to connect each player's gear for laundering.

quality and durability were vital in choosing its equipment. Pellerin Milnor Corp. machinery had been installed in the college's baseball locker room and student athletic center several years earlier, so the college sought out the company again for its on-premise laundry equipment.

"We've been here 11 years now and they've been very reliable," says Mike Robinson, Striplin Fitness Center manager, of the Milnor equipment. "They do a great job and fit our needs well."

The versatile washer-extractor and dryer are used to clean the college's volleyball uniforms and practice gear, as well as the fitness center's terry towels and mop heads. The microproces-

sor control has been preprogrammed with typical and specific wash formulas based on the center's linen types. Many people can use the equipment. In fact, every volleyball player has a week of laundry duty to share the responsibility.

"We are very pleased with the production of the washers and dryers." — Tim Sanders, Assistant Coach and Equipment Manager

sor control has been preprogrammed with typical and specific wash formulas based on the center's linen types. Many people can use the equipment. In fact, every volleyball player has a week of laundry duty to share the responsibility.

Across campus, Birmingham-Southern's state-of-the-art football facility includes two 60-pound-capacity, 30022 T5X washer-extractors, and two matching 75-pound-capacity, commercial M758V dryers. BSC students participating in the work-study program operate these machines at least twice a day,

washing towels, practice T-shirts, practice shorts, socks, game jerseys and compression shirts. Instead of segregating loads by linen type, the team uses Laundry Loops — each strap can connect 8-10 items, ideal for laundering personal garments — for each player's gear. This process helps organize the clean uniforms for easy distribution to the players' assigned lockers.



Birmingham-Southern's football facility includes two washer-extractors and two dryers, all from Pellerin Milnor Corp.

"We are very pleased with the production of the washers and dryers," says Tim Sanders, assistant coach and equipment manager. "We have a lot of laundry that comes in and out, and it certainly has been ideal for us to have this capacity and high quality." **ALN**



ATHLETIC WASHER-EXTRACTOR CAPACITIES

	weight in lbs.	MILNOR 25 lb. models	MILNOR 35 lb. models	MILNOR 40 lb. models	MILNOR 45 lb. models	MILNOR 60 lb. models	MILNOR 80 lb. models	MILNOR 100 lb. models	MILNOR 140 lb. models	MILNOR 160 lb. models
Towels	0.4	63	88	100	113	150	200	250	350	400
T-shirts	0.35	71	100	114	129	171	229	286	400	457
Shorts	0.44	57	80	91	102	136	182	227	318	364
Socks (1 pair)	0.08	313	438	500	563	750	1000	1250	1750	2000
Compression shirts	0.25	100	140	160	180	240	320	400	560	640
Football pants	0.75	33	47	53	60	80	107	133	187	213
Nylon mesh jerseys	0.25	100	140	160	180	240	320	400	560	640
Cotton jerseys	0.4	63	88	100	113	150	200	250	350	400
Baseball uniforms	1.15	22	30	35	39	52	70	87	122	139
Sweatshirts	0.45	56	78	89	100	133	178	222	311	356
Sweatpants	0.45	56	78	89	100	133	178	222	311	356
Equipment bags	1.3	19	27	31	35	46	62	77	108	123
Swimming suits	0.33	76	106	121	136	182	242	303	424	485
Mop heads 12"	0.5	50	70	80	90	120	160	200	280	320
Mop heads 24"	1.1	23	32	36	41	55	73	91	127	145

These figures are based on sample items. Weights and sizes of some brands differ, and therefore the figures should be used only as guidelines

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Laundry Systems for long term care institutions

WHY INSTALL AN ON-PREMISES HEALTHCARE LAUNDRY?

1. Launder everything on premises.

A MILNOR on-premises laundry can handle all of a healthcare institution's clean fabric needs in a simple manner. MILNOR washer-extractors can process patient gowns, pajamas and personal apparel, adult diapers, towels, linens, mattress covers, blankets, pillows, plus such items as employee uniforms, slip covers and cleaning rags. Many types of rugs and drapes can be processed in a MILNOR on-premises laundry.

2. Enhance the image of your institution.

Many operators have enhanced their image of quality, and brightened their patient's environment, through tasteful fabric selection. Everything from linen to drapes can be selected in the colors and patterns of your choice and processed in your MILNOR equipment.

3. Get more use from less inventory.

An on-premises laundry provides more use from less inventory. Smaller stocks meet your needs since you are no longer dependent on pickup and delivery. Towels, linens, and patients' apparel can be laundered immediately after use and be ready again in about an hour if necessary. Smaller inventories mean less storage space and more money for investment elsewhere.

4. You won't be caught short.

On-premises laundering eliminates "caught short" situations. It gives you a ready supply of adult diapers, linens, towels, patient gowns, and pajamas. This is especially important during weekends and holidays when outside services are not available.

5. Control quality, sanitation.

On-premises laundering assures quality processing because you are in control. You can prolong fabric life by using a distinct formula for the specific degree of soil. MILNOR's E-P Plus[®] washer-extractors make this easy, with several specific formulas developed and field-tested by chemists for healthcare facilities. MILNOR washer-extractors also combine commercial washing action with the ability to wash at high temperatures so you can be sure sanitary safeguards can be maintained. MILNOR Staph Guard[®] washer-extractors, installed in a wall separating clean and soiled areas, are available for medium and large sized institutions where infection control is vital.

WHAT IS NEEDED FOR AN ON-PREMISES LAUNDRY?

1. Equipment

Operating a healthcare on-premises laundry is simple. Washer-extractor, dryer, sink, folding table, and supplies are generally all you need. Often, an institution's existing hot water, gas, and electrical services are sufficient. An on-premises laundry is basically an extension of your present services.

A top quality washer-extractor, with a proven track record in commercial use, brings professional laundering ability to your institution. It will make better use of water and soap, improve washing quality, and handle bulky items. It's best to get a machine with a large cylinder, which provides the ability to launder items such as diapers, mop heads, and cleaning rags.

Dryers can use gas, steam or electric heat (gas is regarded as the most efficient). For faster drying and less wrinkling of polyester materials, it is generally desirable for the dryer to be rated at a slightly larger capacity than the washer-extractor. An area for folding is necessary, too. A 2' x 6' table proves sufficient for most institutions. After folding, the items simply have to be stored.

2. Space

An on-premises laundry doesn't require much space. An equipment room or an existing linen storage room is adequate for many facilities. An unproductive room with a poor location may also be used or a combination of these rooms could be used in a large institution. A larger, central laundry can serve affiliated facilities near each other. A MILNOR dealer's laundry planning department provides specially prepared layout drawings for facilities at no charge.

3. Labor

In some institutions there is no need for additional help. Existing housekeeping and maintenance employees can handle the laundry during the slower parts of the day. Equipment that is easy to operate is essential to maintain consistent quality and production. MILNOR's E-P Plus machines are particularly easy to use. The operator simply loads the machine, pushes a button to select the formula, pushes the start button, and can go on to other tasks since the machine requires no more attention.

WHAT SHOULD YOU LOOK FOR IN A WASHER-EXTRACTOR?

1. Easy operation

The washer-extractor you select should have easy, automatic controls that make operation simple and free the operator to handle other duties. With MILNOR's preprogrammed E-P Plus machines, the operator simply matches the type of goods being loaded to the formula named for these goods ("towels", for example), then pushes a button. Operation of field-programmable formulas is similar. Formulas on the alphanumeric display can be named to match goods, making selection easy. Because so little judgment is required, new employees get the knack quickly. Substitute employees can take over with ease, too.

Automatic supply injection further reduces operator responsibility and helps ensure consistent quality. MILNOR machines readily accept liquid chemicals, making hookup fast and easy. Other factors to look for are a large, accessible door for fast loading/unloading, and door safety interlock which prevents opening while the machine is operating.

2. Laundering quality

Washing flexibility should not be sacrificed for operation simplicity. Only a commercial washer-extractor, with professional tumble washing action, can properly clean stained linen, soiled diapers, and dirty apparel.

A cylinder with a large diameter should be among the top priorities when choosing a washer-extractor. The large diameter provides the lift and drop action necessary to clean hard-to-laundry items. When comparing machines, compare actual cylinder dimensions and specific cubic foot volumes.

Also, look for microprocessor controls which give a greater range of processing choices as well as more accurate control over how goods are processed. The preprogrammed formulas in MILNOR machines were developed specifically for the needs of healthcare facilities. They are not common-denominator formulas. The formulas differ in number, type, time and temperature of baths, as well as supply injection. By pushing a button, these formulas can be adjusted for either permanent press or all-cotton fabrics. The machines are available in 25 to 160 lb. capacities.

3. Heavy duty construction

Rugged construction -- from top quality materials -- is imperative if you expect long-term service. Check competitive brands to see if their construction stands up to MILNOR specifications. Compare spec literature. There can be a big difference in quality.

MILNOR machines stand apart from others with features like:

- large, tapered roller bearings and a triple shaft seal to shield the bearings from water
- the exclusive use of continuous, rather than spot, welding for greater strength and reliability
- the simplicity and dependability of heavy duty, single-speed motors
- pre-extract load balancing speed to reduce vibration and extend machine life, and
- a console constructed of heavy gauge materials



The Long Island Home: Two Facilities with One Goal

By: Katie Pellerin

Since 1882, The Long Island Home, a not-for-profit organization operating South Oaks Hospital, a comprehensive behavioral health continuum and Broadlawn Manor Nursing & Rehabilitation Center, a comprehensive long term and sub-acute care continuum have been a vital part of the healthcare in the Long Island community. Their operating mission is



“We Care for People”, which strives to provide the very best in healthcare and customer satisfaction, in all areas of service delivery. A key area in customer satisfaction at The Long Island Home for their nearly 500 daily patients, residents’ families, and staff is laundry.

For over 30 years, Milnor washer-extractors and dryers have played a role in securing a healthy environment for their residents and patients to heal and to thrive. Milnor’s gentle processing and durable laundry machinery are efficient, sanitary, clean, and fresh. With properly cleaned bed linens and personal clothing, residents are able to focus on getting and staying well.



The installed laundry equipment is: one 48040 F7J suspended open-pocket washer-extractor (275 lb. capacity), two 42032 X7J washer-extractors (165 lb. capacity each), one 30022 V6J rigid mount washer-extractor (60 lb. capacity), and three M170



gas dryers (170 lb. capacity each). Also, the laundry boasts eight Milnor M3131 stack dryers and one M50SL steam dryer used for the residents' personal clothing.

The laundry staff includes eight full-time employees daily, who process the property's various healthcare linens using the four Milnor washers and three Milnor dryers in 35-40 loads

per day.

Direct Machinery, Long Island Home's authorized full-line Milnor distributor, sold and installed the facility's new equipment. Direct Machinery's President Ron Hirsch announced, "The Long Island Home had Milnor washers from 1978 that provided excellent service for almost 30 years! Their great experience with these durable machines had a major influence in their once again purchasing the Milnor washer-extractors."

For more information on Milnor machinery or to find out your authorized Milnor distributor, please email mktg@milnor.com or call 504-712-7656.

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/10202



WASHER-EXTRACTOR CAPACITIES

	Weight	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR
	In	25 lb.	35 lb.	40 lb.	45 lb.	60 lb.	80 lb.	100 lb.	140 lb.	160 lb.	275 lb.
	Lbs.	models	models	models	models	models	models	models	models	model	model
King sheets ^S	2	13	18	20	23	30	40	50	70	80	138
Queen sheets ^S	1.9	13	18	21	24	32	42	53	74	84	145
Double sheets ^S	1.8	14	20	23	26	34	46	57	80	91	157
Twin sheets ^S	1.3	20	28	32	36	48	64	80	112	128	220
Pillow cases ^S	0.3	100	140	160	180	240	320	400	560	640	1100
Pillow cases ^L	0.3	96	135	154	173	231	308	385	538	615	1058
Bed Spreads (Double)	3.5	7	10	11	13	17	23	29	40	46	79
Duvet Covers (Double)	3.7	7	9	11	12	16	22	27	38	43	74
Duvet Covers (Queen)	3.9	6	9	10	12	15	21	26	36	41	71
Duvet Covers (King)	4.4	6	8	9	10	14	18	23	32	36	63
Blankets	2.2	11	16	18	20	27	36	45	64	73	125
Bed pads	2.8	9	13	15	16	22	29	36	51	58	100
Pillows	1.6	16	22	25	28	38	51	63	89	101	174
Bath towels ^S	0.4	63	88	100	113	150	132	250	350	400	688
Bath towels ^P	0.5	46	65	74	83	111	200	185	259	296	509
Hand towels ^S	0.2	139	194	222	250	333	148	556	778	889	1528
Hand towels ^P	0.2	167	233	267	300	400	444	667	933	1067	1833
Wash cloths ^S	0.1	417	583	667	750	1000	533	1667	2333	2667	4583
Wash cloths ^P	0.1	250	350	400	450	600	1333	1000	1400	1600	2750
Bath mats	0.5	50	70	80	90	120	160	200	280	320	550
Table cloths (54x54)	0.7	34	48	55	62	82	110	137	192	219	377
Table cloths (72X 72)	1.2	22	30	35	39	52	70	87	122	139	239

^S=Standard ^L=Luxury ^P=Plush, extra thick

These figures are based on sample items. Weights and sizes of some brands differ, and therefore the figures should be used only as guidelines

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B22SL76012/10202

ASKING THE RIGHT QUESTIONS ABOUT LAUNDERING FIREFIGHTING GEAR

By Leroy J. Trevigne
Pellerin Milnor Corporation

How much concern do your department's firefighters show for the cleanliness of their gear? For that matter, how much concern have you given this issue lately?

Chances are, you've recently thought about it more than in the past, because the issue has been raised increasingly -- by the press, by speakers at seminars, and by committees preparing safety regulations.

As you develop your own approach to the issue, I suggest you consider these four questions.

1) Why clean regularly?

The first question to address is why is regular, thorough cleaning of firefighting gear necessary? The most important answer is that it protects firefighters' health. Dirty turnout gear is laden with hydrocarbons, which take in 90% of toxins produced by a fire. These toxins can be absorbed through the skin when firefighters handle dirty gear. Hosing down after a fire can remove surface deposits but is not effective on deposits embedded in the fibers of clothing. And don't forget the health hazard of bloodborne pathogens. Prompt cleaning is essential where exposure to blood exists.



Cleaning can help eliminate safety hazards, too. Heavy residues obscure the color and I.D. markings of a coat, making it difficult to spot a firefighter during heavy risk. Dirty gear can ignite when fabrics are embedded with heavy oil, grease, and hydrocarbon deposits. Heavy hydrocarbon deposits can also conduct electricity -- another danger in a building where wiring is still live.

Another benefit of cleaning is that it makes equipment more comfortable. Dirty protective clothing is hot. The difference between clean and soiled turnouts can be 30% reflectivity.

2) Why clean in-house?

OK, if we accept the premise that cleaning is necessary, why is an on-premises laundry the best way to clean gear? For one thing, it prevents exposure to others. Laundering at home subjects families to carcinogenic substances that are potentially cancer causing. Processing gear in coin laundries puts others at risk. With an on-premises laundry, soiled gear can be handled immediately, right on location -- minimizing contact with firefighters and others around them.

On-premises laundering can greatly reduce operating costs. It can produce clean clothing at a fraction of

the cost of specialized gear cleaning services. (And remember -- if cleaning costs less, it's likely to get done as often as it should be done.) Depending on your volume, savings can pay for the laundry in a very short time -- and thereafter, the money you save can be used on other things. More savings can be realized by also processing stationwear, wipers, mopheads, and mats.

An on-premises laundry can also make gear last longer. Fast, regular cleaning minimizes abrasion of hydrocarbons on fibers. Professional formulas created specifically for washing firefighting clothing can help assure quality control and a longer lifespan, too. On-premises laundering reduces turnarounds, since gear does not leave the site for cleaning. You don't have to rely on the schedule of others.

3) What do you need?

If you decide to launder in-house, what equipment do you need? The first thing is a commercial-quality washer-extractor. It can bring professional laundering capabilities to your operation. It washes more turnouts than a home-appliance washer, washes them better, and lasts longer. Washer-extractors range from 35 lb. capacities up. Buy a machine with as large a cylinder as economically feasible, since some of the personal protective equipment is bulky, and you will want to process quickly. (For example, three coats and pants can be processed in a 35-40-lb. machine, or five in a 55-60-lb. capacity washer-extractor.)

Air-drying is generally recommended for the majority of firefighting gear. Drying racks should be located near the washer-extractor, in an area not exposed to direct sunlight. If a dryer is required for secondary items (full-dry towels, wipes, etc.), it ideally should be one size larger than the washer-extractor (i.e. a 50-lb. dryer for a 35-lb. washer-extractor).

4) How do you choose?



What features should you look for in a washer-extractor? Firefighter gear is bulky, so a spacious cylinder is essential for commercial-quality "lift and drop" washing action. Compare actual cylinder dimensions and specific cubic foot volumes -- not just rated capacity -- when choosing washing equipment. A big cylinder will also reduce processing time, since more goods can be laundered per load.

Effective rinsing is essential for heavily soiled firefighting gear. A machine with intermediate extraction enhances rinsing, since this slow extract "slings" water and chemicals from firefighting equipment prior to the next rinse. Thus gear gets cleaner faster. With continuous duty (rather than intermittent duty) motors, as many intermediate extractions as necessary can be programmed.

Bulky firefighter gear can create an out-of-balance condition inside the cylinder, causing vibration during extraction. A special distribution speed can prevent this by helping balance the load. Less vibration can mean longer machine life.

Look for a machine that offers enough washing formulas to launder different items as they should be laundered. But make sure it is simple to operate, so the right formula choices will be made. It's very helpful

if the equipment is pre-programmed, but be certain the formulas have been devised strictly for firefighting equipment. (You don't want to wash filthy gear in a hotel wash formula!) If the machine is programmable, is it easy to create and modify formulas?

While the machine should be versatile, it should also be easy to operate. Formula selection should be clear, so the operator will make the right choices. Some machines' controls provide operating information (such as how much time remains in the formula) and troubleshooting information (to minimize downtime).

Rugged construction from top-quality parts and materials is imperative for long service. Bulky, heavy turnouts can be rough on a machine. So look for features such as continuous (rather than spot) welding, large tapered roller bearings, a triple shaft seal to shield the bearing from water, heavy-duty, single-speed motors, and heavy gauge console materials.

Summing up

Ask the right questions. Study sales literature to find out what best meets your own department's needs. Then carefully write your specs with those needs in mind.

Doing your homework on this subject -- and basing your action on careful study -- can benefit your department for years to come.

Commonly Asked Questions

- 1. What is necessary to efficiently clean and decontaminate firefighter's gear?**
An on-premises laundry with a front-loading, industrial washer-extractor, with lift-and- tumble washing action. Provided you have the correct type of formulas and the correct chemicals, efficient cleaning, and decontamination of gear can be done at the same time.
- 2. Can an on-premises laundry decontaminate substances such as blood and/or body fluids?**
Yes it can. In addition to the effectiveness of the cleaning chemicals, there are also special disinfectants. They are designed to work in cold to warm water and can be added into the wash formula.
- 3. Can the wastewater be dumped into the sewer or septic tank?**
Yes! See NFPA-1581, Chapter 3, section 3-7.1.
- 4. Does regular cleaning help gear last longer?**
Yes, if cleaned properly. It can also make gear safer to wear.
- 5. Should the shell and liner be washed separately?**
Yes! It's a good idea because it prevents cross contamination of liner and shell. It could re-deposit and could use different formulas. Manufacturers' guidelines should be followed.
- 6. What kind of chemicals (detergent, disinfectant, etc.) should be used?**
NFPA 1851 provides some guidelines on these chemicals. It's best to choose chemicals specifically designed for washing gear.
- 7. Where can I get the right detergents and disinfectants for doing gear?**
There are a variety of cleaning and disinfecting chemicals available through many fire supply houses. Also, check with your turnout gear manufacturer.
- 8. How do I dry my bunker gear?**
For faster drying, you may use a drying cabinet, like our FC-Series. Or, specifically programmed tumble dryers may be used for delicate turnout gear. Consult your dealer or turnout gear manufacturer.
- 9. Can I wash regular laundry (sheets, pillowcases, truck towels, station wear, etc.) in the same washer-extractor?**
Yes, provided you have the right type of industrial washer-extractor, wash formulas and wash chemicals.
- 10. Are industrial washer-extractors easy to operate?**
Yes. Most do not require lengthy training. For example, with a Milnor Gear Guardian[®] washer-extractor's operating instructions are:
1- Load the washer and close the door.
2- Select wash formula 1, 2, 3, etc.
3- Push the start button.
- 11. Is the Milnor Gear Guardian washer-extractor firefighter-proof?**
As firefighter-proof as we can make it. The Milnor Gear Guardian is the most solidly constructed washer-extractor on the market and made 100% completely here in the U.S.A. It will outlast any washer-extractor on the market.



GEAR GUARDIAN[®] WASHER-EXTRACTOR CAPACITIES

	MILNOR 40 lb. models	MILNOR 60 lb. models	MILNOR 80 lb. models	MILNOR 100 lb. models	MILNOR 140 lb. models
No. of sets of gear *	2 to 3	4 to 5	6 to 7	8 to 9	11 to 13

These figures are based on sample items. Weights and sizes of some brands differ, and therefore the figures should be used only as guidelines

GEAR GUARDIAN[®] DRYING CABINET CAPACITIES

	FC-3 Drying cabinet	FC-6 Drying cabinet
No. of sets of gear	3	6

*These figures are based on **complete** sets of turnout gear, including bib, jacket, boots, hat liner, and gloves.
Stainless steel racks and insertion tubes optional.*

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CORRECTIONAL WASHER-EXTRACTOR CAPACITIES

	weight	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR	MILNOR
	in	25 lb.	35 lb.	40 lb.	45 lb.	60 lb.	80 lb.	100 lb.	140 lb.	160 lb.	275 lb.
	lbs.	models	models	models	models	models	models	models	models	models	models
Bed sheets (single)	1.43	17	24	28	31	42	56	70	98	112	192
Pillow covers	0.23	109	152	174	196	261	348	435	609	696	1196
Blankets	2.33	11	15	17	19	37	34	43	60	69	118
Bed pads	1.62	15	22	25	28	43	49	62	86	99	170
Pillows	1.4	18	25	29	32	43	57	71	100	114	196
Bath towels	0.45	56	78	89	100	133	178	222	311	356	611
Hand towels	0.19	132	184	211	237	316	421	526	737	842	1447
Wash cloths	0.06	417	583	667	750	1000	1333	1667	2333	2667	4583
Pants	1.01	25	35	40	45	59	79	99	139	158	272
Shirts	0.49	51	71	82	92	122	163	204	286	327	561
Entry mats (36x30)	0.57	44	61	70	79	105	140	175	246	281	482
Cleaning rags	0.16	156	219	250	281	375	500	625	875	1000	1719
Mop heads 12"	0.5	50	70	80	90	120	160	200	280	320	550
Mop heads 24"	1.1	23	32	36	41	55	73	91	127	145	250

These figures are based on sample items. Weights and sizes of some brands differ, and therefore the figures should be used only as guidelines

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A1 Services & Pellerin Milnor: Family Businesses Grow Together

A1 Services of Jefferson, LA employed automation in their recent equipment/building renovation to streamline product flow and increase productivity. A1 Services is a mat and dust control rental company that has been servicing Louisiana and Mississippi customers since 1970. Privately owned and operated by the Bode family, A1 takes pride in providing excellent customer service with quality products at competitive prices.



A1 Services utilizes Milnor Automated Continuous Batch Washer (CBW[®]) Systems to process 11,000 – 12,000 mats per week. A1 purchased their first Milnor CBW in March 1993 and their second system in May 1995. When it was time to replace their 16-year-old Milnor CBW washer, the Bode family once again chose Milnor.

The latest expansion consisted of: a Milnor 4 Compartment CONWA04 Loading/Weighing Conveyor, a four-module 76039 CBW tunnel washer, a 700 RPM M7V4836C high speed centrifugal extractor, two Milnor double batch 64058 gas pass-through dryers, and approximately 250 feet of Milnor conveyors.



A1's third Milnor CBW System is vital to overall operations and efficiency because it permits the 248 feet of conveyors to link the wash room to the assembly/distribution warehouse, with minimal labor.

Max Schroeder, A1's Operations Manager, said, *"The plant used to run forklifts to transport palletized mats*



all day long between the buildings. Now this task is performed automatically with the use of Milnor takeaway conveyors. This has reduced our operation time by 25%. Also, by properly laying out the new system's loading conveyor, one operator can now load both systems. This task took two operators before the renovation."

Howard and Darrell Bode chose Milnor because of the equipment's durability and washing capability. Darrell stated that *"the Milnor CBW processes mats better and faster than their open pocket washers, using only cold water and little wash chemistry."*

Schroeder added, *"The machine's superior mechanical action enables us to achieve unparalleled production rates."* All three men know a great deal about Milnor tunnels, especially Max who previously provided maintenance on two Milnor 12-module tunnels at another laundry. To further improve production rates, Schroeder commissioned custom carts for unloading and sorting off the conveyor. Working with Flexion cart manufacturers, Max designed these varnished wooden carts to expedite the clean mats' distribution.



The new Milnor tunnel system processes rubber mats every 2:30 minutes, standard mats every 3:05 minutes, and large mats every 4:05 minutes.

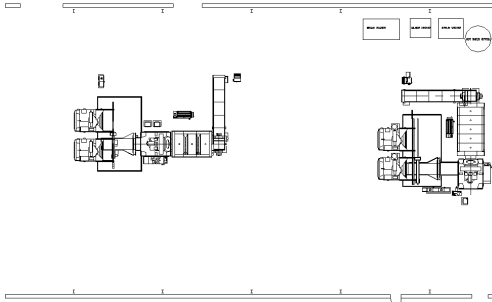


By using Milnor CBW Systems and streamlining their production, A1's operations labor costs only contribute to roughly 8-9% of their total operating costs. *"This allows us to produce quality products at very competitive prices"* says Howard Bode.

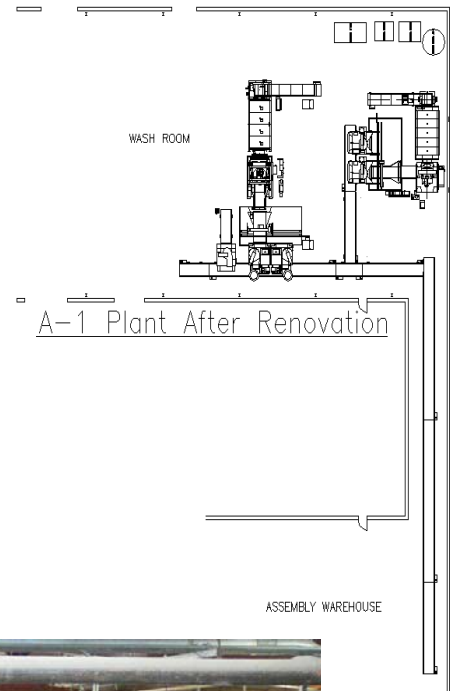
A1 delivers to over 500 business daily and services over 4,000 valued customers across the Gulf South and Central Louisiana. *"The Pellerin family and Bode family have grown*



together through the years”, says Curtis Pellerin (President and Owner of Pellerin Laundry Machinery Sales Company, Inc.). “Both Milnor and A1 have multiple generations of family members working within their organizations. We look forward to working together as we grow our respective companies.”



A-1 Plant Before Renovation



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RENTAL WASHER-EXTRACTOR CAPACITIES

	Weight In Lbs.	MILNOR 25 lb. models	MILNOR 35 lb. models	MILNOR 40 lb. models	MILNOR 45 lb. models	MILNOR 60 lb. models	MILNOR 80 lb. models	MILNOR 100 lb. models	MILNOR 140 lb. models	MILNOR 160 lb. models	MILNOR 275 lb. models
Table cloths (54x54)	0.7	34	48	55	62	82	110	137	192	219	377
Table cloths (72X 72)	1.2	22	30	35	39	52	70	87	122	139	239
Napkins (20x20)	0.12	208	292	333	375	500	667	833	1167	1333	2292
Dress (Uniforms)	0.7	36	50	57	64	86	114	143	200	229	393
Jackets (attendants)	0.75	33	47	53	60	80	107	133	187	213	367
Aprons (bib)	0.4	63	88	100	113	150	200	250	350	400	688
Aprons (tea)	0.2	125	175	200	225	300	400	500	700	800	1375
Pants	1.15	22	30	35	39	52	70	87	122	139	239
Shirts	0.5	50	70	80	90	120	160	200	280	320	550
Draperies (84x96)	5.91	4	6	7	8	10	14	17	24	27	47
Entry mats (36x60)	7.99	3	4	5	6	8	10	13	18	20	34
Furniture covers	2.08	12	17	19	22	29	38	48	67	77	132
Cleaning rags	0.11	227	318	364	409	545	727	909	1273	1455	2500
Mop heads 12"	0.5	50	70	80	90	120	160	200	280	320	550
Mop heads 24"	1.1	23	32	36	41	55	73	91	127	145	250
Continuous towels 40-50 yd (100% cotton)	4.4	6	8	9	10	14	18	23	32	36	63
Continuous towels 40-50 yd (50% poly)	3.75	7	9	11	12	16	21	27	37	43	73

These figures are based on sample items. Weights and sizes of some brands differ, and therefore the figures should be used only as guidelines

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