





CBW® BATCH WASHERS True Top Transfer • Double-Drum • Three Models





HOW IT OPERATES

A variety of arrangements.

Each Milnor CBW washer is custom-made for the customer's specific needs. More modules give greater production. Water inlets and drain valves give greater flexibility. Mentor control allows predetermined temperature and chemical levels for each individual bath.

Mentor[®] Control.

The operator puts a batch in line for loading, then enters the goods classification number into the Mentor control. This automatically selects the processing formula which follows the batch until it's automatically unloaded from the dryer and delivered to its finishing destination.

Loading.

A conveyor or overhead bag system may feed the load chute.

Washing.

Each module has a stationary shell — to hold the wash bath — and a rotating, perforated inner cylinder. Each module can be used for different baths. Goods proceed through the formula by traveling from module to module, via a perforated top transfer scoop. There are no stops and starts for draining and filling after each bath. This saves time, compared to conventional washing machinery.

Temperature controls.

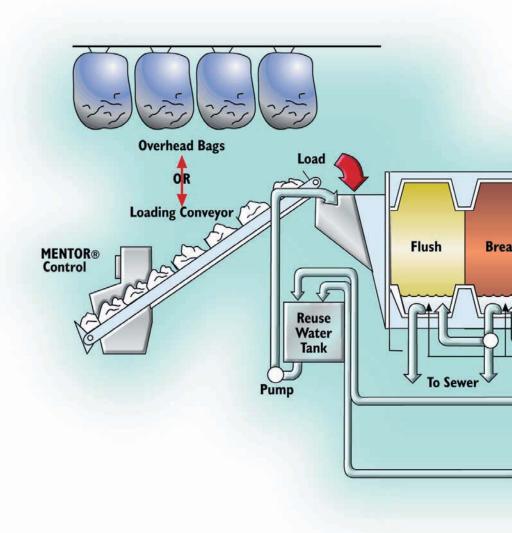
Any module can be equipped with a steam inlet and temperature probe.

Supplies.

Supply inlets can be placed in each module. The Mentor control dictates the amount of supplies and when - or if - they are added to the specific goods in each module during the wash cycle.

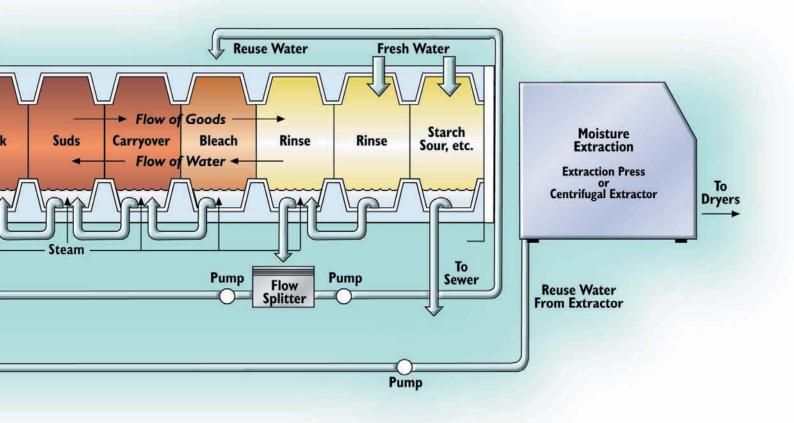
Post-wash.

The MultiTrac system relays each batch's post-wash requirements to other parts of the system – extractor, shuttle, dryers, and conveyors. A CRT display identifies batch location and status. Where multiple-batch dryers are used, the control system prevents mixing of incompatible batches in the same dryer.



....at a glance.





Tunnel washers were developed to save water, energy and labor, and to expedite the flow of goods through the laundry. Since they entered the market in the 1960s, they've all done this to some degree.

Early tunnel washers were bottom transfer machines. To move the goods from one stage of the washing process to the next, they transferred the goods and **ALL** the water along the bottom. Even the first successful *batch* tunnels did this. And today, the same is still true of some tunnel washers made by others.

But the Milnor CBW washer has taken tunnel washing another step forward. This is a top transfer machine. It lifts and drains the goods before transferring them into the next processing stage.

This results in a high level of wash quality for a range of goods – everything from light hospitality linen to heavy-soil industrial goods can be laundered in a Milnor CBW washer.

There are other features that set a Milnor CBW washer apart from other tunnels — such as modular construction and double drum characteristics throughout. What distinguishes a Milnor tunnel washer from the competition are better dilution, higher wash quality and more rugged construction.



HIGHER PRODUCTIVITY

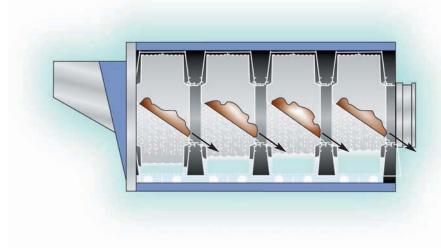
Top transfer increases productivity.

Milnor top transfer CBW washers have proven higher productivity in more than 1,300 installations worldwide. They wash faster than other tunnel washers due to superior dilution — which means better soil removal. This yields two major advantages:

- More production in a given number of compartments, or...
- Fewer compartments to achieve the same production. Both of these advantages save wear and tear on the goods.

Milnor's better washing quality - and higher productivity - result from:

• Better dilution. • Better wash liquor penetration. • Better mechanical action. • More cylinder space.



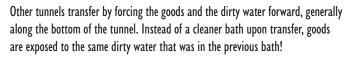
Milnor's perforated top transfer scoop leaves dirty water behind. Linen see cleaner water in the next bath - for better dilution. Note bath separation.



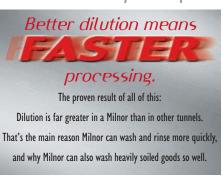
How transfer affects dilution.

A tunnel washer's transfer method is critical, because it's the way the machine introduces each batch of goods to its next bath. And, of course, dilution will be best served if the next bath has cleaner water.

Milnor transfers each batch by lifting the goods out of the water, draining the free water, then sliding the goods into the next compartment. Goods are immediately exposed to cleaner water. Only the water trapped in the goods moves forward — most dirty water is left behind. Milnor leaves back approximately half of the total water in each compartment.



That's why, at the unload end of a Milnor CBW washer, there's hardly any free water when the goods transfer into the press. Other tunnels have a wave of water splashing into the press, along with the goods. And what happens at the end happens in every other compartment of the machine, as well.



Why Goods Get Cleaner Faster With Total Top Transfer.



You can see the effect of total top transfer vs. other methods by using buckets of water to simulate different compartments. A Milnor loading scoop lifts the goods, drains them, and deposits them into cleaner water.



Other tunnels send dirty water into the next compartment, along with the goods. There's no dilution as the whole compartment moves forward.

....with True Top Transfer.



Top transfer gives better control of chemicals.

Milnor's top transfer feature assures bath integrity. Baths are truly independent, so the washing formula can work as planned.

Because water is not pumped forward with each transfer, chemicals are better targeted to the proper baths. They don't migrate uncontrollably to subsequent baths. Titrations show that with a Milnor, it is far easier to control pH.

What is "True Top Transfer"? To acheive all of the benefits of True Top Transfer, a tunnel washer must include:

I. A scoop that lifts each batch out of the water and transfers it to the next chamber.

2. Perforations in the lifting scoop that allow almost all of the "free water" (the water not trapped in the goods) to flow back into the original module and not be carried forward with the load.

3. A solid partition between modules to completely separate chemical baths.

4. No perforations in the partitions so bath integrity is maintained at all times.

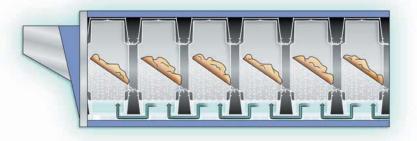
5. The partition should be fixed to the outer drum so that no sliding seals are required to completely separate baths.

6. All flow between modules should be external, so flows can be changed on command when necessary and proper water levels can be maintained.

MILNOR'S DILUTION ADVANTAGE

The results are clear.

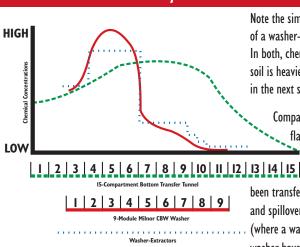
Dilution is the way goods are washed. It's always been true of conventional washers and washer-extractors. It's also true of tunnel washers. Time, temperature, chemicals and mechanical action are essential elements of the washing process. These four things loosen soil from the goods and dissolve/suspend the soil in water. But these four catalysts can only remove soil if <u>water</u> washes it away. <u>That's dilution</u> – successive baths, each with cleaner water, each replacing dirtier water. Without dilution, the dirt cannot be removed from the linen.



What about counterflow?

Counterflow — water moving against the direction of the goods — also achieves dilution. With counterflow, a tunnel washer would get almost the same dilution as a washer-extractor gets with one dump and fill, using reuse water. This is true of both the Milnor top transfer washer and other tunnels. But a Milnor CBW washer, with its perforated top transfer scoop, goes a big step further. The goods change baths upon transferring. So, again except for reusing the water over and over in each module, Milnor achieves approximately the equivalent of a second dump and fill — and about twice the dilution of some other tunnels.

This was a constrained of the second second



TOP TRANSFER AT WORK:

This video sequence shows how Milnor leaves dirty water behind.

Compare Titrations

Note the similarity between titration curves of a washer-extractor and a Milnor CBW washer. In both, chemical concentrations are high where soil is heaviest. Then, concentrations drop sharply in the next stage of the formula as soil is removed.

> Compare this to a bottom transfer tunnel's flatter curve: Lower peak concentration where chemicals are added (because so much water has

been transferred from previous compartments), and spillover of chemicals in subsequent stages (where a washer-extractor and a Milnor CBW washer have already removed most chemicals).



HIGHER PRODUCTIVITY

More Cylinder Space For Better Wash Liquor Penetration

Removes soil effectively.

Every module – not just the first – is big, so wash liquor can flow freely into and out of the linens.

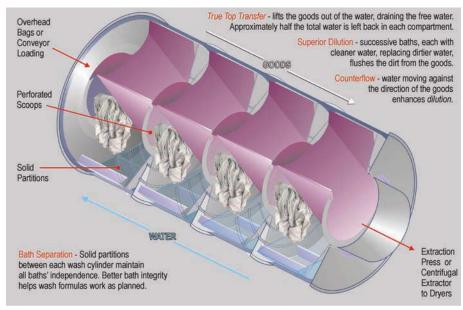
Milnor's high mechanical action effectively loosens and moves dirt out of the fibers.

Tall ribs are strategically spaced for multiple drops.

All cylinders are perforated, and perforations are large and plentiful. Forty percent of the cylinder's perforated area is open, so water and soil flow easily into and out of the cylinder.

Bath separation enhances quality.

With a solid partition between each and every wash cylinder, Milnor keeps all baths independent. Water travels from one module to the next via exterior piping, so it is controllable. Better bath integrity helps wash formulas work as planned. Chemicals don't migrate uncontrollably.



MILNOR: Every module is large and of identical size.

Milnor gives the goods more space to move.

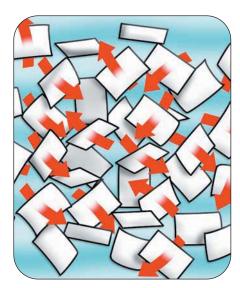
In other tunnels, the first compartment must be large enough (because the goods are bulky before they're thoroughly wet down). But the rest of a bottom transfer tunnel's compartments — all the rest are much smaller. Large cylinder volume allows water and chemicals to penetrate goods more quickly for <u>faster washing</u> in fewer modules.

More space means more speed.

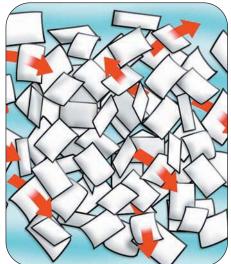
The more space there is, the more room there is for movement of the goods. Goods can open up, so wash liquor — water and chemicals — can penetrate the entire load quickly.

Chemicals need time to do their job. Obviously they'll finish the job faster if they get to the entire load faster.

Since Milnor's low loading ratio and high mechanical action drive water and chemicals into the goods more quickly, the Milnor CBW washer needs less time to wash.



MORE SPACE: In a Milnor, goods open up for better penetration of water and chemicals.



TIGHTLY PACKED: Chemicals cannot penetrate the entire load as quickly in a competitive tunnel.

....from better design.



Why mechanical action is so important.

Mechanical action speeds up dilution. Water and chemicals penetrate the load faster, and soil is removed more quickly.



Without mechanical action.

With no mechanical action at all, some soil gradually exits the goods. That's because with water present, some dilution occurs.



With mechanical action.

Add mechanical action, and soil can exit much more quickly. Mechanical action aids dilution. Dropping the goods squeezes out the water and chemicals inside them. When the goods relax — at the bottom of the cylinder — they open up and absorb more wash liquor.

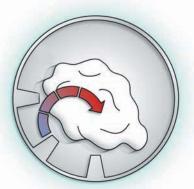
The significance is this: Once goods transfer to a new bath, they must be penetrated by that new bath as quickly as possible. High mechanical action simply aids dilution better than low mechanical action. (And because goods spend less time in the washer, there is less wear and tear!)

How Milnor Produces Superior Mechanical Action



EXCELLENT WASH ACTION with high ribs.

Another reason for Milnor's speed is apparent if you look down the loading chute, into the first compartment of the tunnel. Lift and drop action is obviously great in a Milnor CBW washer. Three factors contribute to greater turbulence inside the washing cylinder: More space, high ribs that are strategically positioned, and a rotational speed that uses these features to best advantage.



In fact, the Milnor CBW washer's mechanical action has been documented by internationally recognized tests to equal — and even exceed — that of many industrial-size washer-extractors!

Milnor provides the kind of washing action you'd only expect in an industrial washer-extractor.

Up to 44 drops a minute.

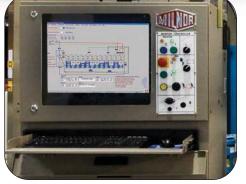
Milnor CBW Washer is ideal for industrial soil.

Properly-designed batch washers can wash better, faster and at lower cost than any washer-extractor — even when doing heavy industrial soil items. Milnor CBW systems are washing heavy soil to excellent quality standards in plants across the world. In addition to higher wash quality, other advantages are savings in utilities and labor, faster processing of small batches.



COMPLETE CONTROL

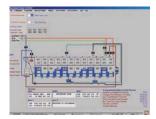
Mentor® Control for CBW/® Washers



The Mentor® Control expands your laundry's capabilities and tells you what's going on.

A format that's familiar, easy to use.

The Mentor controller makes it easier for you to capitalize on the Milnor CBW Washer's vast capabilities. With graphic displays and mouse-click operation, it saves time in programming and maintenance. Different password levels ensure security and familiar Windows[®] based format makes all operations more intuitive. This saves training time. Another advantage is one-stop data backup and restoration, using standard media.



- Operational display gives key information for each batch in the loading system and washer.
 To monitor activity in a specific tunnel module, you click on the module on-screen. A window gives details. This window even lets you manually actuate chemical valves and other functions.
- Pulldown menus speed up operating procedures and make it easy to find information. Operators can click on menu choices (in real words) rather than type in codes.
- On-screen help messages explain terminology — an excellent training tool and a timesaver for experienced personnel.

Programming is easier & faster.

You program the Mentor controller by formula — not by module — on only one screen. Formulas are virtually unlimited. Shortcuts and timesaving features aid programming. You can define several related output signals (e.g., all alkali valves) as a group.

- A formula is programmed step-by-step, entirely on this screen. This includes such functions as chemical injection, bath temperature, formula length, permissible load weights, and assigned dry codes. Formulas get more meaningful names because more characters are available.
- The Mentor controller makes several operations automatic — such as chemical dosing after a goods change, based on user-assigned compatibility.
- · Copying parts of one formula to another can save steps in programming formulas for simpler goods classes.
- · Chemical multiplier lets you modify all formulas in one step.

This shortcut saves time when you change chemicals or chemical supply valves. It also helps you fine-tune chemical use.



On-screen tech & PM help.

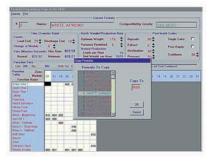
The Mentor controller does much more than alert you to any errors that might occur. It also offers instant, on-screen access to guided troubleshooting steps. It even displays pertinent service procedures and — in many cases — service manual pages. This information can be printed for hardcopy reference. A preventive maintenance alert — with verification requirement — is also available.



• The controller signals an error and provides a step-by-step troubleshooting guide. Service manual pages, including illustrations and schematics, can also be viewed on-screen.

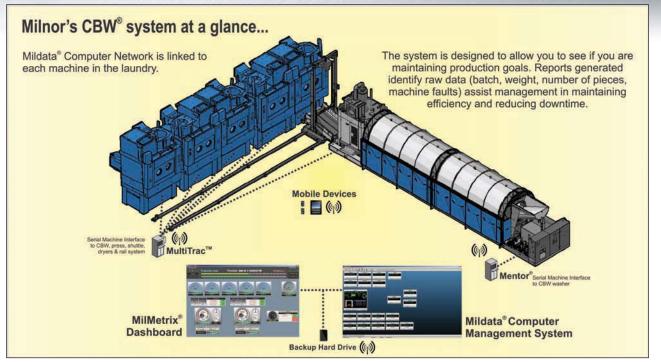


The Mentor[™] controller can be retrofitted to many earlier CBW Washers with serial controls. All displays and descriptions subject to change without notice.



Windows[®] is a registered trademark of Microsoft Corporation.

....for streamlined production.



Mildata[®] system – a versatile plant management tool.

Monitors the entire washroom

Milnor's Mildata[®] Computer Network provides complete personal computer monitoring and reporting on washing equipment including batch washers, washer-extractors and dryers. The result is a built-in management network for the laundry or textile plant.

The Mildata system can provide data collection, report generation, central programming and system monitoring. With this system, management has instant access to production and can take immediate steps to streamline productivity for a more efficient, profitable operation.

Moreover, the system allows all functions to be accessed on-site, at remote locations or via the internet — an important consideration for companies with multiple locations or off-site personnel.

Central on-line programming

The Mildata system provides easy on-line programming of formulas at central terminals. Changes that took hours to program before take only minutes.

Throughout all programming, help displays are available at the touch of a button to speed the programming process. There is no need to refer to the manual for programming help. Programming advantages include:

• No lost production time – Equipment in progress is not interrupted while programming alterations.

• **Remote programming** – Especially important in multiple-plant situations – or when traveling personnel are involved.

• Simplified dryer programming – Dryers with Mark II and later microprocessors can be programmed as a bank, rather than individually.

Compare real-time operations to pre-set benchmarks

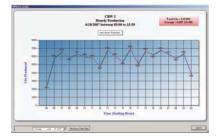
Mildata MilMetrix[™] software allows you to see, at a glance, if you're keeping up with expected performance throughout your laundry or on a machine by machine basis. This allows you to address any machine issues (like a low pressure error message) before it affects your daily numbers.



Concise, meaningful reports – when and how you want them

Mildata MilMetrix[™] software records raw data such as batch, weight, type, number of pieces, machine faults, downtime and diagnostics for each load of goods. This information is sorted and tabulated to provide several reports, including:

• **Machine production** – Real time versus calculated time and load information.



• Chronological load with water - Load information by machine.

• Formula mix – How many loads of each formula per machine, total and per machine.

• **Machine utilization** – Information related to machine usage and percentage of utilization.

• Employee output – Number of loads produced, number of pieces, actual hours worked versus total workday, error time and wait time.

• **Customer output** – Number of loads produced, weight and number of pieces.

• **Goods formula-output** – Actual wash time versus benchmark.



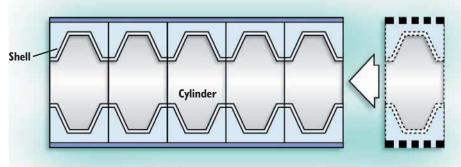
MORE FLEXIBILITY

Modular Design • 250 (b. (115 kg) Batches

92048 CBW Washer

Milnor's modular top transfer CBW washers consist of individual, double-drum modules — each with their own individual drive and support elements like several washing machines linked together.

Milnor's modular, top transfer design, with double-drum construction throughout, yields several important benefits over competitive bottom transfer tunnels.



MILNOR: Modular shell-and-cylinder design.

Each module of a CBW washer is a separate unit, providing easy access into laundries with limited entry.

Add capacity later.

If volume increases later, you can easily add modules – without the cutting, welding or remanufacturing required by other tunnels.

MILNOR ADVANTAGES

Greater flexibility.

Because water travels over weirs and via external pipes from one module to the next, there is absolute water control. Many waterflow alternatives are available. Fills, drains, counterflows and alternative counterflow/drain can be factory-installed and revised in the field. You can also easily change any chemical input, water input, or drain. Each module can have its own steam supply and electronically controlled temperature. Compatibility programs facilitate switching from one type of goods to another by changing the parameters. A Milnor CBW washer can be linked to a membrane press, a centrifugal extractor, or both a press and a centrifugal extractor. There is also a choice of dryer sizes and materials handling systems.

You're not locked into today's classifications.

Milnor tunnel designs allow broad freedom with washing formulas. Changes are made automatically from one formula to the next. Plain-language programming commands supply injection times in seconds and temperature in C°/F°. You have several choices as to when injection can occur — after the desired temperature is achieved, after level is achieved, etc.

If you change goods classifications later, you can modify the washer to cope with radically new formulas. The wash-to-rinse module ratio is changeable, as each module is a distinct entity. Water, steam, and liquid supply inlets for any module can be added or altered in the future, without physically disassembling the washer — or entering the machine.

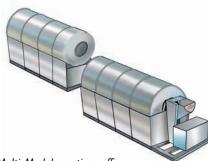
....to fit any laundry.



Multi-Module Section Design 1101b. (50 kg) or 1501b. (68 kg) Batches

76028 or 76039 CBW Washer

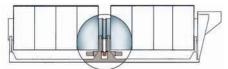
These streamlined machines have reduced the number of drive and support components for easier installation and servicing, and make better use of valuable floorspace. Intact are the essential features that make Milnor tunnels so popular throughout the world — top transfer, excellent bath separation, double drum construction, and a high level of flexibility.



Multi-Module sections offer streamlined design to meet a variety of needs. Sections can be added later.

Streamlined drive – and easier access.

There are now fewer moving parts than ever including fewer motors, gear reducers, and chains. A direct-driven gear reducer eliminates belts and pulleys.



Drive components have been minimized. An eight-module tunnel has only two motors, two gear reducers, and two chains.

In the new centralized control system, input/output board optimization allows for fewer boards. The system has only as many boards as are required for its inputs and outputs. Controls have also been moved to where they are easily accessible to service technicians.

Service and maintenance points are concentrated in easy-to-reach locations. Valves, for example, are now lower so they can be reached from floor-level. A welded steam manifold results in a streamlined steam injection design.



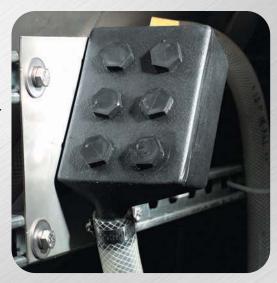
Engineered for fast installation

Installation is simplified through single-point hookups for water, steam, air, and electricity. These components are also located within reach — without use of a ladder. Chemical hookup is easier, too, with potential of six connectors on each module. Flow splitters and lifters are more compact, and they feature integral pumps, piping controls, and wiring for fast connections.

Better design.

The Milnor CBW washer injects water, supplies, and steam into a stationary outer shell. And it can drain from a stationary shell.

Any - or every - module can be equipped with chemical injection (dosing box for sectional tunnels shown here).



High wash quality.

Milnor's double-drum design delivers high washing quality. Baths are kept separate (due to top transfer), so chemical injection is more controllable.

Easier to bring into tight places.

Finding a location is made easier by modular design, too. The CBW washer can be brought into the laundry in sections and assembled without on-site manufacturing.



BETTER ENGINEERING

No other commercial laundry machinery manufacturer matches Milnor resources in design, testing, and manufacturing. Examine a Milnor CBW washing system closely, and you'll see that Milnor doesn't cut corners. That's why you can expect the kind of capabilities discussed on previous pages. You can also expect the machine to perform as it's supposed to perform – and cope with heavy use – for many years to come.

Here are some of the extra steps Milnor takes to provide a superior batch washing system.

Designed for simplicity and strength

By increasing component heft in key areas, Milnor can use fewer components. Rugged support and drive components are backed by a five-year extended, limited warranty (ask your Milnor dealer for details).

Torque — the twisting motion typically exerted on welded tunnel cylinders with each reversal is transmitted only short distances. And Milnor's rugged cylinder construction has been proven in operation and in fatigue tests using computer equipment unique in the industry.



Components are conveniently located. New, simpler steam manifold streamlines design.

Double drum design simplifies inlets.

Milnor's stationary outer shell (the machine is double drum throughout) simplifies injection of water, supplies, and steam — plus draining and gauging temperature. This design also makes it easier to add these components later. Friction seals are not required.

Greater flexibility.

Every Milnor module can have its own steam supply, with thermostatically controlled temperature. Drains can be added easily (for example, to change the wash time/rinse time ratio). Some Milnor models can automatically revise waterflow configuration, depending on the goods class. Milnor's double drum design allows easier insertion of chemical probes any place they're needed. And water, steam and supply inlets can be added or changed without physically disassembling the washer. With bottom transfer tunnels, design constraints severely limit flexibility and subsequent modification.

Enhanced water savings.



Water use in a Milnor CBW washer can be further reduced with optional **PWR Zone** (Press Water to Rinse Zone) water flow. This optional flow pattern with surge

tank allows the customer to take maximum advantage of reuse water. That water is reused like this:

• Excess water from the last module is collected in the surge tank, along with extracted water from the membrane press or centrifugal extractor.

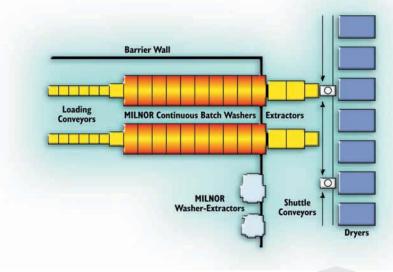
• That surge tank water is split between the rinse zone of the CBW washer and the reuse flush tank.

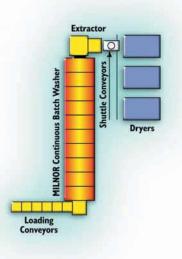
The option includes a surge tank with wedge wire screen to help remove lint from the water. Total fresh water savings when processing typical healthcare and hospitality work is approximately 25%*. This option is available as a retrofit to existing CBW systems.

* Results may vary depending upon batch sizes, chemical use and wash settings.

Fits the desired layout.

Many laundries find they can increase capacity, yet use less space than with conventional washing machinery. Loading conveyors (if used), extracting and drying equipment can be positioned in-line or at right angles to form an L- or U-shaped layout. There is a wide choice of Milnor conveyors to help you cope with awkward or tight layouts. And the CBW Washer is ideal for barrier arrangements separating areas where soiled and clean goods are located. That's because work enters one end and exits the other.





....for superior results.



These CBW washers are packaged for accessibility, to speed maintenance if it's necessary. Easy-toreach components are grouped in an orderly manner. Plumbing can be accessed quickly. It's



neatly located within the machine's frame to prevent bumping by carts, etc.

Special features help solve special problems.

Several optional features are programmable as needed: • Flush enhance increases flushing action in the first module and — when used with one or two 8" drain valves

- can be used to flush non-solubles from the shell sump.

 Wash enhance helps remove heavy soil more effectively by stepping up the flow rate in the appropriate washing modules.

• Rinse enhance accelerates the flow rate in the desired rinse modules.

• Flow/no flow lets you interrupt counterflow on demand (or allow counterflow in a module where it normally does not occur).

• Overhead fast fill tank quickly fills a module that has just been drained to prevent thermal shock.

 Workwear features help purge weir boxes and shell sumps of heavy non-solubles and metal particles, etc. manually or automatically. After the machine has run a commanded number of loads, the Autopurge feature removes non-solubles by automatically passing "empty holes" and calling for fills and drains.

• Last module dual bath, typically used in smaller systems with longer transfer times, gives the last module a dual function: rinse (counterflow) for part of the time, standing bath for the remainder.

• Bath exchange - where counterflow is minimized

or eliminated and replaced with draining and filling

of individual modules — can be useful where colored goods are followed by white.

Drive systems are simple, dependable, efficient.

All drive and support elements (including motors) are small, easy to change if necessary, and designed for dependability.

Flexible couplings interconnect drive units, and cylinders are keyed end-to-end. Drive components

are located in a dry zone for reliability and easy maintenance. Drive system bearings are lubricated from outside the machine.

Oversized motor housings dissipate heat for longer life. "Soft start", created by alternate starts of motors, removes heavy shock load on drive components, increases motor life, and reduces ampere demand(modular washers). Inverter drive on sectional CBW washers also reduces ampere demand.

Warranty

Milnor's rugged cylinder support, drive and seal components are backed by a five-year extended warranty. For support wheels, the full price is covered up to five years after the machine's manufacturing date. For all the other drive components (including motors, chains, sprockets, gear reducers, couplings, V-belts, and pulleys) and seal components, the full parts price is covered up to two years, and a pro rata amount is absorbed for the next three years.

Compatibility Features

Compatibility features can prevent an operator from putting goods onto a loading conveyor in an unauthorized sequence (no whites after reds, for example). It also can recognize the first time a heavy-soil batch enters a module after a more lightly soiled batch. In this case, it automatically provides higher "first dosing" to correctly raise the chemical concentration in that module. Afterwards, it adds lighter maintenance doses of the chemicals for each successive load of the same goods. Another use of Compatibility is optional Bath Exchange — which uses drains and fills to allow white goods to follow red goods, for example.

Milnor's Pass-Empty feature also helps you cope with incompatible loads. It allows you to command up to eight "vacant batches" whenever one specific type of load (e.g., white) follows another (e.g., red). And a desired formula can be applied to these openings, to prepare for the incompatible load that follows and to make the most efficient use of water, chemicals and fuel.

The Miltrac[®] system can also prevent incompatible batches (e.g., sheets and towels) from being mixed in a multiple batch dryer.

How Milnor forces wash liquor through the goods.

Milnor design engineers have developed unequalled means of forcing wash liquor through the goods, rather than allowing it to bypass the load.

First, the rotating cylinder is perforated all the way around, so counterflow water can move through the large open area continuously.

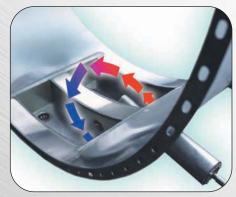
Second, waterflow in a Milnor results not only in excellent supply dispersion, but also in better penetration of the goods. Standard counterflow is achieved by directing water over a weir from one module to the next. Water enters the module at the bottom of the outer shell, where it is forced



up through the goods. It then flows down through the goods, before exiting at the other end of the cylinder and shell.

Water flows easily through Milnor's perforated cylinder.

Steam is injected at the bottom of the shell (away from the goods), so water is immediately heated as it enters. Location of steam injection also increases water turbulence.



How water enters and exits the shell in a Modular CBW washer.

Steam is injected through a venturi device, mixing it with water. This eliminates the exposure of goods to live steam.

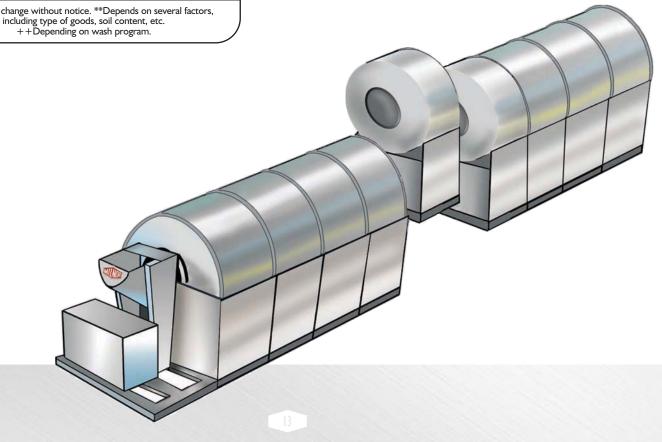


92048 MODULAR CBW® WASHERS

SPECIFICATIONS				
	92048			
WASHING CYLINDER				
Rated capacity**	250 lbs	115 kg		
Diameter	92"	2337 mm		
Depth	48"	1219 mm		
APPROX. DIMENSIONS				
EACH MODULE	ins.	mm		
Overall width	100	2540		
Overall height	120	3048		
Overall length	60	1524		
Add to first module	66	1676		
Add to last module	16	406		
CONNECTIONS				
	ins.	mm		
Water valve	3"	76		
Drain	5"	127		
Quick drain valve(s)	8"	203		
Steam	2"	51		
Air	I/2"	13		
WATER				
Approx. consumption ++ lbs./gal (L/kg)	.6 to 1.4	5 to 12		
Approx. consumption with PWR Zone	Approximately	Approximately 25% savings**		

Proven results for any laundry.

Milnor CBW Systems can deliver superior performance for a range of goods. The productivity charts on these two pages are general indicators of the types of goods currently processed in various Milnor CBW washer operating at nominal (85%) efficiency rates.



76028 & 76039 SECTIONAL CBW® WASHERS





	76028		76039	
WASHING CYLINDER		501	150 11	(0)
Rated capacity** Diameter	1 10 lbs 76"	50 kg 1930 mm	150 lbs 76"	68 kg 1930 mr
Depth	28"	711 mm	39"	990 mn
APPROX. DIMENSIONS				
	All ft. ['] ins. ['']	mm	All ft. ['] ins. ['']	mm
Overall width	7'11-5/16"	2421	7'11-5/16"	2421
Overall height	8'8-3/16"	2646	8'8-3/16"	2646
Overall length: no. of modules				
3	17'10"	5440	20'3"	6160
4	20'5"	6220	23'7"	7180
5	23'	7000		
6	27'4"	8340	32'1"	9770
7	29'11"	9120	35'5"	10790
8	32'6"	9900	38'9"	11810
9	35'1"	10680	43'11"	13380
10	37'8"	11460	47'3"	14400
11	42'	12800	50'7"	15420
12	44'7"	13580	53'11"	16440
13	47'	14325	59'	17983
14	49'8"	15138	62'5"	19204
15	52'2"	15900	65'9"	20040
16	59'9"	18212	69'	21056
CONNECTIONS				
	ins.	mm	ins.	mm
Water valve	3"	76	3"	76
Drain	5"	127	5"	127
Quick drain valve(s)	8"	203	8"	203
Steam	2"	51	2"	51
Air	I/2"	13	1/2"	13
WATER				
Approx. consumption ++ lbs./gal (L/kg)	.6 to 1.4	5 to 12	.6 to 1.4	5 to 12
Approx. consumption with PWR Zone	Approximately 25% savings**			

++Depending on wash program.







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