### Features at a glance
- **MILNOR durability at a lower price**
- Simple, single-motor drive offers smooth operation
- Easy-to-use E-P OneTouch® (four formula) microprocessor
- 30 programmable formulas on E-P Express® control
- 30 programmable formulas on E-P Plus® control with standard temp control and optional steam or electric heat
- Three speeds deliver advantages over two-speed models (E & X models). Six speeds for J models.
- Cylinder sides have large perforations for better wash quality
- High, perforated cylinder ribs provide great mechanical action
- Soap chute and liquid soap connectors standard
- Durable steel frame (stress is spread evenly)
- Bearings aligned in rigid housing
- Triple water seals protect bearings
- 5/3 Warranty Plan (ask dealer for details)
- Standard models fit through 36” door

### WASHER-EXTRACTOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>MWR12ES</th>
<th>MWR12X5</th>
<th>MWR16X5</th>
<th>MWR18ES</th>
<th>MWR18X4</th>
<th>MWR18J5</th>
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<tr>
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<td>Ditch. speed - RPM**</td>
<td>64</td>
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<td>Extract - RPM**</td>
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* Depending on density and soil content of goods
** Approximate
*** With standard accessories
Specifications and appearance subject to change without notice. Contact factory for acoustics data.
**Simple Push-Button Controls Make Employees More Effective.**

- **E-P OneTouch®** microprocessor
- Formulas: Four pre-programmed formulas - formula clearly identified for each injection set - light soil with bleach, medium soil with bleach, heavy soil, and very heavy soil
- Signal lights: Two separate lights indicate “machine on” and final wash formula stage

**Microprocessor Models Require Less Training, Solve Problems.**

- **E-P Express®** microprocessor
- Formulas: Thirty total - all programmable - including 10 pre-programmed specifically for either athletic, commercial, or correctional
- Supply injection: Any supplies can be injected in any bath - up to two in one bath
- Display: Two-line, alphanumeric, bright vacuum fluorescent display uses real words, not codes (to tell operator what step is underway, what supply is being injected, time remaining, etc.)

**Programmable Formulas for Any Application.**

- **E-P Plus®** microprocessor
- Formulas: Thirty total - all programmable - including 10 pre-programmed specifically for each of eight markets (see list), all formulas can be modified to suit needs...management may choose whether operator can manually skip to end of existing bath or extract

**Why they are reliable.**

1. The frame is constructed of solid plate steel and designed so stress is dispersed evenly.
2. MILNOR draws on its long experience building giant industrial washer-extractors.
3. Simple drive uses a single motor with efficient inverter to deliver three speeds for superior wash quality.

**Why three speeds are needed for better washing.**

Efficient inverter drive produces the speeds needed for effective processing - wash, pre-extract, distribution speed (help prevent unbalanced loads) and extract. Three speed operation is essential and allows:

- More intensive wash speeds for best wash quality. Minor MWR models have an optimal 32 RPM wash speed. Competitive two-speed models use higher wash speeds that platter goods to the cylinder. These faster speeds - combined with their shorter rib heights - result in less washing and rinsing action, or Mechanical Action Factor (MAF).
- A needed distribution speed. This helps prevent vibration during extract by evenly distributing the fabric being laundered along the periphery of the cylinder. This allows optimum moisture extraction and helps reduce dry times. It also adds to machine life because it reduces machine vibration and stress.
- A final extract speed keyed toward today's fabrics. Combined with a big cylinder (which means a thinner layer of goods for water to pass through) and numerous, larger perforations, this adds up to more effective extraction.

**Our 5/3 Warranty Plan covers key parts of these Milnor machines:**

- Five years on frame
- Five years on cylinder
- Three years on microprocessor boards

**Support Worldwide**

Milnor laundry machinery is sold worldwide by the most highly regarded dealer network. Dealers not only provide complete equipment packages, but also can help with planning an installation and supply technical support. Ask us for the dealer in your area.

**Engineered for Better Washing - Milnor’s Cylinder Has Bigger Perforations, Allowing Water to Pass Quickly Through Goods.**

- Milnor’s bigger cylinder perforations give:
  - High wash quality (promotes intense interchange of wash solutions with goods)
  - Thorough mixing (promotes interchange of solutions and goods and less water drain freely)
  - Enhanced extraction (allows water to escape from goods easily, quickly)

**Spacious wash cylinders also yield better results.** There’s more room for lift and tumble action, and for goods to open up and absorb the washing solution (and more water).

- High ribs provide excellent lifting action: They’re perforated, too (unlike some others), for fast interchange of goods and water.

**Bottom-filling rinsing also intermixes extracts remove suds quickly.** By rising from the bottom – while the goods tumble – water penetrates the soapy load more evenly. Compare that to spray the goods while they’re plastered unevenly to the cylinder side. Water passes through the thickest but not so readily through the thickest part of the load. (And it gets worse if low water pressure spoils the spray nozzle’s aim!)

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**True Commercial Washer-Extractors at the Right Price**

- Get traditional MILNOR durability at a lower cost.
- It’s easy to step up to a true commercial machine, from the world’s most trusted name in large commercial and industrial washing machinery.

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<table>
<thead>
<tr>
<th>Hotel/Motel Standard Wash</th>
<th>Restaurant Standard Wash</th>
<th>Healthcare Standard Wash</th>
<th>Correctional Standard Wash</th>
<th>Athletic Standard Wash</th>
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**Popular Competitor**

- MILNOR draws on its long experience building giant industrial washer-extractors.
- Simple drive uses a single motor with efficient inverter to deliver three speeds for superior wash quality.

**Warrants attest to endurance**

- Our 5/3 Warranty Plan covers key parts of these Milnor machines:
  - Five years on frame
  - Five years on cylinder
  - Three years on microprocessor boards

---

**Microprocessor Models**

- E-P Express® microprocessor
- Formulas: Thirty total - all programmable - including 10 pre-programmed specifically for each of eight markets (see list), all formulas can be modified to suit needs...management may choose whether operator can manually skip to end of existing bath or extract

**Supply Injection:**

- Any supplies can be injected in any bath - up to two in one bath
- Supply injection: Any supplies can be injected in any bath (up to two in one bath) - either with fill or without fill
- Display: Two-line, alphanumeric, bright vacuum fluorescent display uses real words, not codes (to tell operator what step is underway, what supply is being injected, time remaining, etc.)

**Programming:**

- Simple two-button programming, display prompts each step...help screen makes it even easier...create new formula, add/delete, modify steps, and/or delete entire formula - all in one programming mode...move backward to make changes, then rapidly forward

**Display:**

- Two-line, alphanumeric, bright vacuum fluorescent display uses real words, not codes (to tell operator what step is underway, what supply is being injected, time remaining, etc.)

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**MICROPROCESSOR MODELS REQUIRE LESS TRAINING, SOLVE PROBLEMS.**

- E-P Express® microprocessor
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**SIMPLE PUSH-BUTTON CONTROLS MAKE EMPLOYEES MORE EFFECTIVE.**

- **E-P OneTouch®** microprocessor
- Formulas: Four pre-programmed formulas - formula clearly identified for each injection set - light soil with bleach, medium soil with bleach, heavy soil, and very heavy soil
- Signal lights: Two separate lights indicate “machine on” and final wash formula stage
True commercial washer-extractors at the right price

The engineering that makes the difference

Why three speeds are needed for better washing

Efficient inverter drive produces the speeds needed for effective processing - wash, pre-extract, distribution speed (helps prevent unbalanced loads) and extract. Three speed operation is essential and allows:

- More intensive wash speeds for best wash quality. Milnor MWR models have an optimal 32 RPM wash speed. Competitive two-speed models use higher wash speeds that plaster goods to the cylinder. These faster speeds - combined with their shorter rib heights - result in less washing and rinsing action, or Mechanical Action Factor (MAF).

- A needed distribution speed. This helps prevent vibration during extract by evenly distributing the fabric being laundered along the periphery of the cylinder. This allows optimum moisture extraction and reduces dry times. It also adds to machine life because it reduces machine vibration and stress.

- A final extract speed keyed toward today’s fabrics. Combined with a big cylinder (which means a thinner layer of goods for water to pass through) and numerous, larger perforations, this adds up to more effective extraction.

MICROPROCESSOR MODELS REQUIRE LESS TRAINING, SOLVE PROBLEMS.

E-P Express® microprocessor

Formulas: Thirty total – all programmable - including 10 pre-programmed specifically for each of eight markets (see list). All formulas can be modified to suit needs - management may choose whether operator can manually skip to end of existing bath or extract.

Programming: Screen and sequenced speed programming ensures, display prompts each step... "help" screen makes it even easier... create new formula, add/delete/make modifications, and/or delete entire formulas - all in one programming mode... move backward to make changes, then rapidly forward.

Display: Two-line alphanumeric, bright vacuum fluorescent display uses real words (not codes) to tell operator what step is underway, what supply is being injected, time remaining, etc... also: error messages, diagnostic information, formula counts.

Supply injection: Any supplies can be injected in any bath (up to two in one bath) - either with fill, at level-satisfied, or 10 seconds after level and temperature (with temperature control option) are achieved... injection duration is programmable, too (1 to 255 seconds)... five injection signals (includes connectors for five liquid supply tubes).

Why they are reliable

1. The frame is constructed of solid steel plate and designed so stress is dispersed evenly.

2. MILNOR draws on its long experience building giant, industrial washer-extractors.

3. Simple drive uses a single motor with efficient inverter to deliver three speeds for superior wash quality.

Warranties attest to endurance

Our 5/3 Warranty Plan covers key parts of these Milnor machines:

- Five years: frame, cylinder, shell, bearings and bearing housing seals
- Three years: microprocessor boards, non-wearable parts (consult dealer or factory for details)

Support Worldwide

Milnor laundry machinery is sold worldwide by the most highly regarded dealer network. Dealers not only provide complete equipment packages but also can help with engineering and supply technical support. Ask us for the dealer in your area.

ENGINEERED FOR BETTER WASHING - MILNOR’S CYLINDER HAS BIGGER PERFORATIONS, ALLOWING WATER TO PASS QUICKLY THROUGH GOODS.

Milnor’s bigger cylinder perforations plus:

- High wash quality (promotes intense interchange of wash solutions with goods)
- Through rinsing (promotes interchange of solutions and goods and lets water drain freely)
- Enhanced extraction (allows water to escape from goods easily, quickly)

Spacious wash cylinders also yield better results. There’s more room for lift and tumble action, and for goods to open up and absorb the washing solution (and rinse water).

High ribs provide excellent lifting action: They’re perforated, too (unlike some others), for fast interchange of goods and water.

Bottom-fill rinsing plus intermediate extracts remove suds quickly. By rising from the bottom – while the goods tumble – water penetrates the soppy load more evenly. Compare that to spray the goods while they’re plastered unevenly to the cylinder side. Water passes through the thinnest but not so readily through the thickest part of the load. (And it gets worse if low water pressure sprays the nozzle at all!)

While efficiency per se is usually a secondary consideration for the large laundry business, whenever water conservation is critical - as it is in some areas - Milnor washers become even more attractive. Economy of water usage means lower utility costs. This is particularly important in situations where the community depends on treated water supplies.
### WASHER-EXTRACTOR SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
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- **Triple water seals protect bearings**
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