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Automated Open Pocket WASHER/EXTRACTOR SYSTEM

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Key features of Braun Automated Open Pocket Washer/Extractor Systems include

- From semi-to fully-automated operations
- Auto-loading from a sling, chute or air conveyance
- A simple split-trench addition that allows for easy installation of water reuse systems
- Full lift and drop that allow for optimum mechanical agitation with the highest-quality wash process possible.
- Braun's Neutron Suspension - proven low maintenance, and vibration isolation
- 300 G centrifugal extraction
- Sized to a 95% efficiency factor
- Can be completely integrated with WASHNET® 7.0 plant management information system
- Memory card for program loading and back-up

Braun Open Pocket Washer/Extractors



Braun 600 OP

High volume doesn't come at the expense of convenience. The 600 OP's 44" load and 40" unload height is comfortable for operators using chutes, slings, and automated systems in loading, and carts or conveyors in unloading.

Braun Open Pocket Washer/Extractors are created with ease of use in mind. Ergonomic design and user-friendly microprocessor controls allow one operator to simultaneously control several machines smoothly and effectively.

Open Pocket machines are mounted on Braun's Neutron Suspension to isolate vibration from the workspace. Because of the unsurpassed vibration dampening of the neutron suspension, Braun Open Pockets can be installed without a foundation, even on suitable upper floors.

This promotes less wear on major end components and provides outstanding durability and machine longevity.

Braun Open Pocket Washer/Extractors feature two-way tilting for safe, easy loading and unloading. Braun makes the most of G-forces in the extraction process with increased cylinder diameters, providing maximum, efficient water removal.

Whichever model meets your needs, Braun's design engineers will smoothly integrate the new machines into your plant layout to reduce the number of full time employees while optimizing material flow. Braun's team will use their years of integration expertise to assist you in developing the most efficient laundry system available today.

Braun Washer/Extractors with two-way tilting can be networked into a fully automated laundry system. By linking Braun Washer/Extractors to an automated loose goods shuttle system and Braun Pass-Thru Dryers, your facility can be easily managed by one operator from a centrally located workstation running on Braun's Windows®-based WASHNET® software.

When you demand versatility, performance, efficiency and reliability, meet your needs from the wide range of Braun Open Pocket Washer/Extractors.



Braun Open Pocket Washer/Extractors



Braun 450 N2 OP

The washing capacity of a 450 lb. with a width of just 89 inches.

Single-Motor Drive

Now standard on all Braun Open Pocket Washer/Extractors is single-motor drive (SMD), energy-efficient drive technology. Using only one motor, a Braun open pocket is economical to operate, easy to maintain and offers greater flexibility in program options.

A Braun Open Pocket with SMD ramps up to full speed smoothly – without stepping, without fixed speeds – to programmable extraction speeds of 50 to 625 rpm. With smooth ramp up, SMD allows the machine to pin the goods and then go into higher extract speeds, removing more water quickly before sending the goods on to the dryer, ironer or tunnel finisher. More thoroughly extracted goods mean finishing operations will require less cycle time and less energy.

Using fewer and less complicated parts, a Braun open pocket with SMD promises less down

time and dollars spent on maintenance. SMD simplification also significantly lowers the electric current demand during acceleration to full extract speed, lowering peak current demands during operation and saving on energy costs.

450 N2 Open Pocket Washer/Extractor

The Braun 450 N2 Open Pocket Washer/Extractor was designed to smoothly integrate to various plant layouts. It is engineered for ease of use, space allocation limitation concerns, and ergonomics. A unique feature to the 450 N2 Open Pocket is that suspension has been designed to reduce the washer/extractor's profile and to provide a reduction in vibration. The 450 N2 provides versatility, outstanding performance, efficiency and reliability, with the washing capacity of a 450 lb. open pocket in a small footprint of just 89 inches!

Load Balancing

Braun Washer/Extractors are designed in such a way that the load balances itself prior to moving into the extraction phase. By slowly ramping up to a programmable extraction speed, Braun Washer/Extractors evenly distribute the wet goods against the cylinder, eliminating the need for artificial counterbalances. This balance method results in consistent thickness of goods throughout the cylinder, delivering a uniformly extracted load, free of wet clusters which greatly hinder the efficiency of your drying and finishing areas.



Braun 200 OP

Open Pocket Washer/Extractors Specifications

| Open Pocket Model | 200 Tilting Single Motor Drive | 450 N2 Tilting Single Motor Drive | 600 Tilting Single Motor Drive |
|--|--------------------------------------|---|--------------------------------------|
| Maximum recommended capacity - lb/Kg | 250/113 | 500/227 | 700/318 |
| Cylinder diameter. x depth - in | 50 x 34 1/8 | 65 x 38 3/4 | 76 1/4 x 39 3/8 |
| - mm | 1270 x 864 | 1651 x 984 | 1937 x 1000 |
| Cylinder volume - cu ft/cu m | 38.8/1.099 | 74.4/2.11 | 104.1/2.948 |
| Cylinder loading angle | 26° | 26° | 24° |
| Cylinder unloading angle | 20° | 20° | 21° |
| Cylinder operating angle° | 0-3° | 0-3° | 0-3° |
| Cylinder door area opening for loading - sq in/sq cm | 1,256/8,103 | 1,256/8,103 | 1,809/11,671 |
| Diameter of cylinder opening - in/mm | 40/1016 | 40/1016 | 48/1219 |
| Height of unloading door above floor - in/mm | 30/762 | 40/1016 | 40/1016 |
| Height of loading door above floor - in/mm | 35/889 | 42/1067 | 44/1118 |
| Single motor - hp | 20 | 40 | 40 |
| Extract speed - rpm range | 57-625 | 57-599 | 50-553 |
| Wash speed - rpm range | 30-57 | 25-57 | 25-57 |
| Automatic drain valve - in/mm | 6/152 | 8/203 | 8/203 |
| Automatic inlet valve - in | 1 1/4 | 2 | 2 |
| Steam valve - in | 3/4 | 1 1/4 | 1 1/4 |
| Overall width - in/mm | 93/2362 | 89/2261 | 124/3150 |
| Overall depth - in/mm* | 85/2159 | 96/2438 | 98/2489 |
| Overall height - in/mm | 88/2235 | 98/2489 | 110/2794 |
| Approximate domestic shipping weight (net), skidded - lb/kg | 9,600/4,354 | 19,000/8,618 | 23,610/10,709 |

Standard electrical specifications: 208, 240, 480, 600 volts, 3 phase, 60 cycle.

For any characteristics other than the above, consult G.A. Braun, Inc., Syracuse, N.Y.

*Plus safety rail for loading tilt angle.

Braun Loose Goods Shuttle



Braun Loose Goods Shuttle

The Braun Loose Goods Shuttle automates washer/extractor-to-dryer transfer. The shuttle automatically travels to the Braun Open Pocket, aligns and accepts the discharge from the tilting machine. The shuttle then finds and loads the next available dryer, or takes designated linen to a dryer bypass station for transport to the finishing area.

Key features of Braun's loose goods shuttles include

- Smart software communicates to the shuttle the next process available
- Full transition into washers and dryers means fewer drops and less linen on the floor
- Allows for safety space between washer, dryers and shuttle
- Minimizes operator handling, minimizing the potential of operator injury
- Sized for full loads from Braun 200, 450 N2, and 600 lb. washer/extractors
- Full stainless-steel construction on all water contact areas

With fully integrated controls, the Braun Shuttle provides smooth, safe, error-free transfers.

Automated Shuttle System Specifications

Model: OPSH44

Electrical Specifications

| Service: | 208-3-60 | 240-3-60 | 480-3-60 | 600-3-60 |
|------------------------|-----------|-----------|-----------|-----------|
| Wire to End of Track:* | #16 (18A) | #16 (18A) | #16 (18A) | #16 (18A) |
| Rigid Metal Conduit: | 1/2" | 1/2" | 1/2" | 1/2" |
| Disconnect Switch: | 30 A | 30 A | 30 A | 30 A |
| Circuit Breaker: | 15 A | 15 A | 15 A | 15 A |
| Travel Motor 1/2 HP: | 2.2 A | 2.0 A | 1.0 A | 0.8 A |
| Belt Motor 1.5 HP: | 5.1 A | 4.6 A | 2.3 A | 1.8 A |

Shipping Information

Shipping Dimensions: 87" W x 108" H x 152"D

Shipping Weight: 3500 lbs.

Model: OPSH66

Electrical Specifications

| Service: | 208-3-60 | 240-3-60 | 480-3-60 | 600-3-60 |
|-------------------------|-----------|-----------|-----------|-----------|
| Wire to End of Track:* | #14 (25A) | #14 (25A) | #14 (25A) | #14 (25A) |
| Rigid Metal Conduit: | 1/2" | 1/2" | 1/2" | 1/2" |
| Disconnect Switch: | 30 A | 30 A | 30 A | 30 A |
| Circuit Breaker: | 25 A | 25 A | 15 A | 15 A |
| Travel Motor 1.0 HP: | 3.4 A | 3.5 A | 1.7 A | 1.7 A |
| Belt Motor 3.0 HP: | 9.3 A | 8.9 A | 4.5 A | 3.9 A |
| Telescope Motor 1/2 HP: | 1.8 A | 1.8 A | 0.9 A | 0.9 A |

* °THHN 90C Wire @30 Deg C (86 F) Ambient

Shipping Information

Shipping Dimensions: 109" W x 109" H x 200"D

Shipping Weight: 4500 lbs.

Specifications subject to change without notice.

Braun PT Dryers



Braun PT Dryers

Available in capacities of 250 and 500 lbs., Braun PT Dryers deliver years of dependable service.

As stand-alone units or key components in a fully automated system, the Braun PT Pass-Thru Dryer delivers years of dependable, productive service. Customer demand for lower operating cost and higher productivity have driven industry-leading product innovations at Braun. We produce the most advanced, efficient and compact dryers available today, with a host of important production enhancements and operational cost reduction features.

Computer Controls

The computerized dryer controls are fully programmable, accurately controlling the temperature to within 1.0 degree and completely self-diagnostic.

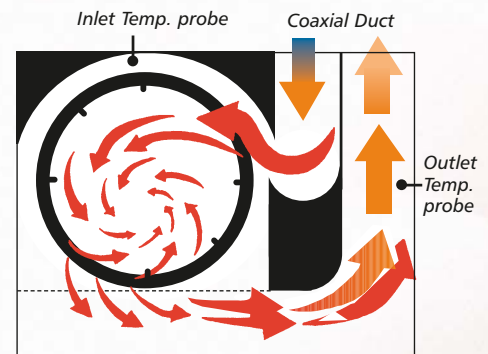
Fully Modulating, Computer Controlled Heating

Full burner modulation results in precise basket chamber temperature control, yields fast dry times, consistent quality and outstanding resource efficiency. Monitoring both inlet and outlet temperatures, the Braun Dryer control precisely meters the fuel, constantly trimming the amount used, throughout the drying cycle. As the water content in the load decreases, the amount of fuel needed to maintain the programmed temperature decreases. This is unlike other dryer manufacturers where the amount of fuel used in their dryers is the same throughout the entire dry cycle.

Coaxial Ducting

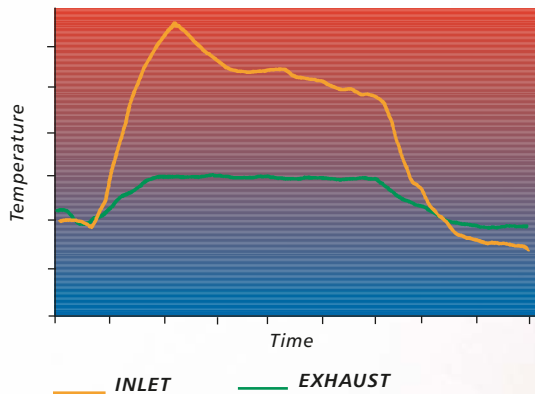
Braun PT Dryers use coaxial ducting to increase efficiency. Unlike a re-circulation duct system, the hot internal coaxial exhaust duct transfers only the heat energy to the cold incoming air, sending the now cooler, moisture laden air outside. A less efficient re-circulation duct system dumps the moisture that you are trying to drive off, back into the goods.

The pre-heated air created by the coaxial ducting decreases the amount of fuel required to heat the basket chamber to the final operating temperature. This way you get a monetary return from the money spent to heat the air in the first place. Another advantage of coaxial ducting is a significant reduction in operation sound levels as well as a single roof penetration.



Coaxial Ducting

Transfers only the heat energy to the cold incoming air, sending the now cooler, moisture-laden air outside.



Temperature graphs

Help ensure maximum efficiency of the PT Dryer.

Linear Heat Source

While some dryers use a ring design burner, Braun PT Series Dryers incorporate a unique application of a linear burner for their heat source. This design feature of the PT series further ensures that the heat will be evenly distributed within the full volume of the dryer basket, further maximizing fuel conservation and productivity.



Swing Out Door

Our swing-out door design allows for easy access to the dryer basket and seals for maintenance and inspection.



On-Board Lint Collector (optional)

Braun's on-board lint collector employs a combination of compressed air blow down, mechanical sweep and vacuum for efficient automatic removal of lint. Additionally, there is easy access to the lint collector basket for maintenance and inspection

Key features of the Braun PT Dryer include

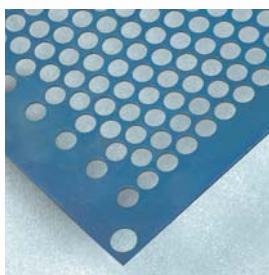
- PT Series Drive Train is a one-piece, CSA approved gear motor, which drives two 10" drive wheels. A large poly-chain belt drive ensures years of reliable power transmission
- Extremely efficient, modular design
- Reinforced 304 stainless-steel insulated vertical slide doors
- Industrial-grade pneumatically operated on-board line collector with easy access
- Controls with Ethernet capability and flash memory card which allows for uploading and downloading formulas or programs without a PC
- "Plug & Play Wire Harness" – if a component should need replacement, simply loosen the harness collar and pull to free the connection. Installation is just as simple
- Available with non-stick coated panels and baskets to reduce the possibility of plastic adhering to the inside of the basket. This ensures unobstructed airflow through the perforated panels, keeping dry times to a minimum
- Removable panels
- Memory card for program loading and back-up
- Ethernet ready

Pass-Thru Dryer Key Features



PT SERIES DRIVE

The PT Series Dryer drive train excels above the competition by its simplicity in design and low maintenance. A one-piece, CSA-approved gear motor drives two 10" drive wheels. A large polychain belt drive ensures years of reliable power transmission.



NON-STICK COATED PANELS AND BASKETS

Braun offers non-stick-coated panels and baskets on all dryers. The non-stick coating reduces the possibility of plastic adhering to the inside of the basket. This ensures unobstructed airflow through the perforated panels, keeping your dry times to a minimum, and significantly reduces maintenance.



'PLUG & PLAY' HARNESES

Braun PT dryers incorporate plug and play harnesses. If a component should need replacement, simply loosen the harness collar and pull to free the connection. Installation is just as simple. Braun's industry-leading swing out control box and large doors provide easy access to all harnesses and internal components. Other manufacturers use hard wired connections that require time-consuming disconnect and reconnect procedures.



CSA CERTIFIED

All Braun dryers are CSA Certified for gas and electrical.

Pass-Thru Dryer Specifications

| Model | 500 PT |
|---|----------------|
| Capacity, Dry Weight | 500 lbs. |
| Basket Volume | 165 cu. ft. |
| Door Diameter | 60" |
| Machine Width | 129 1/2" |
| Machine Depth, Level | 83 3/4" |
| Machine Depth (One-Way Tilt) | 110" |
| Machine Depth (Two-Way Tilt) | 139" |
| Maximum Machine Height | 138 3/4" |
| Unload Height at Door Ring | 37 3/4" |
| Load Height at Door Ring | 57 1/2" |
| Normal Load/Unload Tilt | 18 degrees |
| Minimum Dryer Spacing, Center to Center | 156 1/2" |
| Receiving Opening Requirements | 127" H x 84" W |
| Total Shipping Weight | 9,400 lbs. |
| Main Blower HP | 25 HP |
| Exhaust Volume | 10,000 cfm |
| Exhaust Duct Connection Size | 17" x 14" |
| Water Supply Line | 3/4" NPT |
| Air Supply Connection | 1" NPT |

Gas Fired Models

| | |
|-------------------------------------|----------------------|
| Propane Gas Supply Pressure | 3" min. - 7" max. wc |
| Natural Gas Supply Pressure | 7" - 20" wc |
| Burner Firing Range BTU/hr (x1000) | 600 - 2800 |
| Nominal Firing Range BTU/hr (x1000) | 1500 |
| Gas Supply Connection | 2" NPT |

Steam Model

| | |
|------------------------------|-------------------|
| Steam Boiler HP | 40 |
| Steam Supply Connection | 3" NPT |
| Steam Condensate/hr | 1,538 lbs. |
| Condensate Return Connection | 1 1/2" NPT |
| BTU/hr | 1,334,115 |
| Air Intake Duct Connection | 34 1/2" x 47 1/2" |

Note: External lint collection system is optional.

Specifications subject to change without notice.

For sales, parts and service,
call 1-800-ID BRAUN (1-800-432-7286).

Braun WASHNET® 7.0 Decision Support Software Solution



| Machine | Customer | Formula | Network | Status | Loads | Weight |
|-----------------|--------------|---------------|------------------------|------------------|-------|--------|
| Washer #1 | 1-Hospital A | 1-Sheets | 0:00 S3-3 | Break 12/6/140 | 5 | 2000 |
| Washer #4 | 1-Hospital A | 2-Pillowcases | 0:00 S3-3 | Wash 14/8/145 st | 6 | 2400 |
| Washer #5 | 2-B Hotel | 3-OR Scrubs | 0:00 S3-3 | Break Ex. Hot | 5 | 2000 |
| Washer #6 | 1-Hospital A | 3-OR Scrubs | 0:00 S3-3 | Break 12/6/140 | 6 | 2400 |
| Washer #7 | 1-Hospital A | 1-Sheets | 0:00 S3-3 | Break 12/6/140 | 3 | 1200 |
| Washer #8 | 2-Hospital A | 3-OR Scrubs | 0:00 S3-3 | Break Ex. Hot | 8 | 2400 |
| Washer #9 | 1-Hospital A | 2-Pillowcases | 0:00 S3-3 | Wash 14/8/145 st | 6 | 2400 |
| Shuttle #1 | 1-Hospital A | 1-Sheets | 41-Fred A Dryer | | 33 | 13200 |
| Dryer #1 | 1-Hospital A | 2-Pillowcase | 14 DRY CYCLE | | 12 | 4800 |
| Dryer #2 | 1-Hospital A | 2-Sheets | 7 DRY CYCLE | | 11 | 4400 |
| Dryer #3 | 2-B Hotel | 1-Sheets | 22 DRY CYCLE | | 9 | 3600 |
| Conveyor #1 | 1-Hospital A | 1-Sheets | Ready For Loading | | 30 | 12000 |
| Omega #1 | 1-Hospital A | 1-Sheets | T=0 L3=0 L2=0 L1=0 L=0 | | 900 | 0 |
| Alpha #1 | 1-Hospital A | 1-Sheets | T=0 L1=0 L2=0 L3=0 L=0 | | 1300 | 0 |
| Apron Filter #1 | 2-B Hotel | 2-Sheets | L=0 L1=0 L2=0 L3=0 L=0 | | 200 | 0 |
| Tunnel #1 | 1-Hospital A | 2-Pillowcase | Tunnel Cycle Time=0 | | 50 | 1300 |



WASHNET® 7.0

Helps in the planning and controlling of the most efficient and effective laundry operation.

Braun WASHNET® 7.0 computer control system creates a central operating station for all networked equipment within the automated open pocket system. It links washer/extractors, shuttles, dryers, rail controls, and chemical feed systems into one seamless operation.

From WASHNET® 7.0 operators can monitor equipment, manage formulas, backup configurations, and view equipment alarm and production history. WASHNET® 7.0 saves steps and time with real-time equipment status, formula transfer utilities, code tracking and simple-to-use virtual panels for semi-automatic equipment functions. With the integration of one or more remote PCs you can now manage your laundry from the comfort of your production or maintenance manager's office or anywhere your LAN/WAN network access can take you.

In summary, Braun's WASHNET® 7.0 is an extremely powerful data-management tool. It allows all levels of the organization access to critical information in real-time so educated decisions can be made regarding the process. WASHNET® 7.0 also allows Braun to provide the best and more-timely support via remote and on-site services. WASHNET® 7.0 adds value and can contribute directly to your bottom-line.

Specifications

General

- Windows® compatible
- Full screen operation
- Three levels of password protection
- Equipment specifically listed by device type and machine number
- Quick access to important information

Equipment Status

- Multilingual capabilities (English, Spanish, German, French, Italian)
- Real-time machine status
- Daily production totals available per machine
- Alarms displayed in simple, meaningful text

Centralized Programming

- Formula programming of all equipment from one location
- Remote programming from secondary office
- Download formulas and machine configurations
- Formula building blocks

Automatic and Manual Functions

- Handles interfacing and control between system devices, including Ethernet integration with rail and chemical vendors
- Optimizes wash flow through wash alley
- Passes codes between devices as linen travels
- Removes equipment from automatic operation without affecting the entire system
- Restarts equipment and clears alarms from the master station
- Operator manually controls loading/unloading priorities
- Manual navigation of shuttle to position, based on machine number

Decision Support Features

- Fully integrated system data accumulation
- Automatic import of data from all networked equipment
- Raw data sorted into complete loads
- Auto update before viewing
- Microsoft® Access Database
- Complete system tracking
- Numerous production reports available, including:
 - By time and date
 - By formula and machine number
 - By alarm type
 - View exactly where alarm occurred in program

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