

Speed Queen®

For vended and commercial homestyle laundry equipment facilities in apartments, residence halls, condominiums, cooperatives, hotels, motels, military installations, campgrounds, RV parks, senior citizen residences, truck stops and marinas.



Prepared especially for:
Building owners, college housing directors, military procurement officers, management companies, architects, engineers, specification writers, contractors and builders.

About Us

What makes a leader?

At Speed Queen, we've always felt our measure is equal parts quality, technological innovation and time-tested performance. Dating back to 1908, we have been continually focused on improving our manufacturing processes and products. Today's customers need equipment that is energy

efficient, flexible and delivers excellent performance. Our products set industry standards for efficiency and reliability. Speed Queen remains steadfast in our commitment to offering premium quality products that have our customers redefining perceived limits of productivity and profitability.



Manufacturer of Speed Queen® and Huebsch® Multi-Housing Laundry Equipment



Commercial Heavy-Duty Manual Washers and Dryers



Washers and Dryers



Washer-Extractors



Tumblers

For information and solutions to questions about multi-housing laundry equipment, visit our Web site at

www.speedqueen.com call 1-800-345-5649

or look in the yellow pages for a Speed Queen route operator nearest you.

Exceptional Choices in Model Line Controls and Vending from

Coin Slide Operated



Speed Queen offers the most complete range of coin slide-

operated laundry models of topload and frontload washers, single and stack dryers for simplified coin-operated community laundry rooms.



With features such as water and energy efficient designs, quality internal components and high security



systems, multi-housing owners can depend on Speed Queen equipment to give them the advantage on such issues as energy savings, dependable performance and protect against vandalism.

Manual Control Start



Speed Queen's commercial quality and expertise is present in these non-vended manual control model washers and dryers.



Washer Control Panel



Dryer Control Panel

Convenient features such as three wash/rinse temperatures, six drying cycles, three fabric types, and selectable water fill level give the user exceptional choices for receiving the best laundering possible in military and government common area facilities.



Basics in Establishing a Community Laundry Room

WHERE CAN COMMUNITY LAUNDRY ROOMS BE ESTABLISHED?

Multi-housing residences in either low- or high-rise apartment complexes, residence halls, condominiums, military housing, college residence halls, guest services and in-unit apartments.

WHY VENDED EQUIPMENT?

The high cost of operating multi-housing residential facilities makes the community laundry area particularly attractive. Depending upon the arrangement made with a laundry service company — commonly called a route operator which supplies the equipment — the cost of operating a laundry can be completely offset and can, under certain arrangements with the route operator, return a portion of the income obtained from the laundry equipment to an owner or manager of the housing facility.

WHO INSTALLS AND MAINTAINS THE EQUIPMENT?

The building management can retain the services of a Speed Queen route operator. In this arrangement the route operator provides, installs and maintains the equipment in the facility at his/her expense. The route operator will, under certain arrangements, return a percentage of the equipment income to management. Lease-purchase arrangements are also available through the route operator.

WHERE TO FIND A SPEED QUEEN ROUTE OPERATOR?

You can contact a Speed Queen route operator nearest you by using our Web site locator at www.speedqueen.com or by checking the classified pages of your telephone directory under "Washers and Dryers/Coin-Operated" or call 1-800-345-5649 for information. Look for the Speed Queen name.

WHAT ABOUT ENERGY CONSUMPTION?

Speed Queen equipment has been designed for energy conservation. All Speed Queen frontload washers have qualified for the ENERGY STAR® rating by exceeding the U.S. Department of Energy standards for commercial washers energy and water usage.

Our heavy-duty commercial washers are available in vertical (toploading) and horizontal axis (frontload) Horizon® models. These washers have special energy settings which lower water consumption and reduce hot water costs. These washers are designed with industry-leading high-speed extracts of 710 and 1,000 RPM on topload and frontload washers, respectively. This maximizes moisture removal for faster drying and less expense to the property owner.

Speed Queen single load and stacked dryers are efficient in fast drying and low energy consumption.



Check with a Speed Queen authorized route operator to find out if your utility consumption is as low as it can be. They can perform a Utility Cost Calculator Analysis for you.

HOW MUCH EQUIPMENT?

In planning and designing a laundry facility for multi-housing use, it is important to keep in mind the characteristics of the people who will occupy the building.

The type of multi-housing building will dictate whether the laundry equipment should be concentrated into one centralized area or smaller rooms spread throughout the property. It is important that the room(s) are planned with proper facilities for electric and gas hook-ups, water supply and drainage, as well as proper make-up air and dryer ventilation.

The following pages present our suggestions for the product types and amount of Speed Queen equipment required for sizing multi-housing properties. Specific situations demand the expertise of a qualified route operator so the proper equipment in the proper mix is provided for the residents' convenience.



Laundry Room Types



CENTRALIZED LAUNDRY ROOMS

(High-rise buildings with apartments, condos, co-ops)

The equipment can be concentrated in a convenient central area located in the building. The larger space requirement can expand the services to residents with variable sized washer-extractors with bigger load capacities, expanded vending concessions, folding tables and comfortable waiting areas similar to on-street coin laundries. **For high-rise buildings with a central laundry room, one washer and dryer set is recommended for every 20 living units.**



DE-CENTRALIZED LAUNDRY ROOMS

(High-rise or low-rise buildings with apartments, condos, co-ops)

For planned communities, de-centralized laundry rooms or small laundry areas with matching washers and dryers are the most common. Usually these establishments are amenity oriented, offering folding tables and vending machines for the tenant's convenience. **One washer and one dryer is recommended for every 8 to 12 living units.**

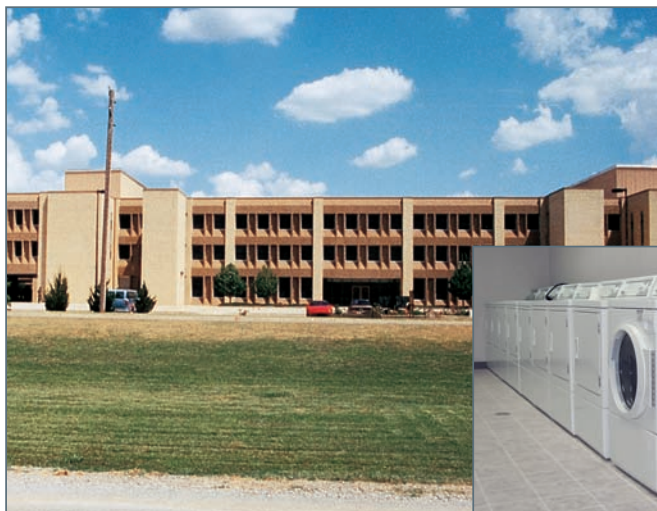


ON-FLOOR LAUNDRY ROOMS

(Low-rise or garden-style buildings)

For garden apartments, matching washer and dryer pairs are the most customer convenient layout. **One washer and one dryer is recommended for every 8 to 12 apartment units.**

Laundry Room Types Cont.



MILITARY HOUSING

Centralized laundry rooms with commercial ENERGY STAR® qualified frontload washers and matching dryers for military personnel. Non-metered (free start) equipment is usually required by military. **One washer and one dryer pocket is recommended for every 20 military personnel.**



COLLEGE RESIDENCE HALLS

Centralized laundry rooms are conveniently located in residence halls with top or frontload washers and matching dryers. **For student residence halls, one washer and one dryer is recommended for every 30 to 40 students.**



IN-APARTMENT

For ultimate customer convenience, placement of laundry units is within the apartment, with top or frontload washer and matching dryer. **One washer and one dryer is recommended per unit.**

Equipment Sizing Ratios

Equipment Guidelines by Property Type

One Set

is defined as one topload or frontload washer paired with one dryer pocket, or one stacked washer/dryer

If multiple sets are needed, use the following examples as your guide:

Examples of Multiple Sets

2 ea. topload/frontload washerswith 1 ea. stacked dryer (= 2 dryer pockets)
2 ea. topload/frontload washerswith 2 ea. single load dryers (= 2 dryer pockets)
2 ea. topload/frontload washerswith 1 ea. tumbler dryer (1 tumbler pocket = 2 dryer pockets)

One Washer/Dryer Set is Recommended For the Following:

Property Type	Number of Living Units
High-rise building	20 to 25 living units
Low-rise or garden building	8 to 12 living units
Co-ops, condominiums	8 to 12 living units
Senior citizen centers	50 residents
Military housing	20 military personnel
College residence halls	30 to 40 students
Guest services	50 rooms
In-apartment	1 set per unit

Equipment Guidelines by Property Demographics*

Predominant Resident Profile	Washers & Dryers (W/D) Per Using Unit
Families	1 pair W/D per 8 to 12 units
Young working adults	1 pair W/D per 10 to 15 units
Older working adults	1 pair W/D per 5 to 20 units
Students	1 pair W/D per 25 to 40 students
Senior citizens	1 pair W/D per 25 to 40 units

Determine the number of machines your community needs by adding all units without an in-unit washer/dryer and divide in half the units with in-unit laundry connections. These figures are based on the predominant resident profile. Adjust according to your particular profile mix.

* Multi-Family Executive

Installation Suggestions and Equipment Specifications

GENERAL ROOM INFORMATION

1. Determine the size of the laundry room by allowing a minimum of 25 square feet (2.25 m²) per machine.
2. At least one floor drain should be provided in each laundry.
3. Washtubs not required. However, if they are installed, provide adequate space for them. Such space shall be in addition to that recommended for each machine.
4. Locate dryers on outside walls since long ducts increase installation cost and are less effective for proper venting.
5. For proper operation, it is important to locate the dryer in an area that has an ample amount of make-up air to replace the amount exhausted by the dryer. Energy efficient multi-housing facilities with low air infiltration rates should be equipped with an air exchanger that can accommodate on-demand make-up air. These devices can be obtained through your building contractor or building material suppliers.
6. Tumbler make-up air must be brought into the room to replace air being exhausted. Tumblers require fresh outside make-up air.

Minimum requirement:

Single Tumblers – 144 sq. in. opening to the outside.

Stack Tumblers – 288 sq. in. opening to the outside.

7. Provide sufficient lighting, preferably fluorescent.

EQUIPMENT SIZING RECOMMENDATION

One dryer for each single load (topload or frontload) washer is the recommended product balance. One stacked dryer, or one 25 lb RouteMaster™ tumbler will accommodate two topload or frontload washers. A stacked tumbler will accommodate four topload washers.

TOPLOAD AND FRONTLOAD WASHERS

Electrical Requirements

1. Each washer is designed to be operated on an individual three-wire grounded, 120 volt, 60 Hz electrical circuit protected by a 15 or 20 amp fuse, equivalent fusetron or circuit breaker. No. 12 wire recommended for electrical connection or as required by local codes.
2. All receptacles shall be equipped for a three-prong grounded plug.

Plumbing Requirements

1. Water supply faucets must fit standard 3/4" (19.1 mm) female hose couplings.
2. Hot water facilities should have the capability of maintaining a constant water temperature of between 120°-140°F.
3. Maintain cold water temperature at not less than 35°F (1.6°C).
4. Washer will operate under a variety of sufficient water pressure conditions; however, a constant water pressure of 30 psi must be maintained.
5. Drain each washer into a minimum 2" (50.8 mm) diameter by 3' tall cast iron, PVC or copper standpipe.

TOPLOAD AND FRONTLOAD WASHER ENERGY AND WATER USAGE

Ultra, High Efficiency Frontload Washer

Modified Energy Factor (MEF) = 2.16

Water Factor (WF) = 5.2

Water Consumption per cycle = 14.8 gal.

MDC Topload Washer

Modified Energy Factor (MEF) = 1.50

Water Factor (WF) = 8.8

Water Consumption per cycle = 23.7 gal.

Coin Slide Topload Washer

Modified Energy Factor (MEF) = 1.26

Water Factor (WF) = 9.5

Water Consumption per cycle = 26.1 gal.

NetMaster Control High Efficiency Extra-Large Topload Washer

Modified Energy Factor (MEF) = 1.34

Water Factor (WF) = 9.5

Water Consumption per cycle = 29.7 gal.

SINGLE AND STACK DRYERS
(Gas and Electric Models)

Electrical Requirements

- 1. (Electric Models) Provide separate circuits from the main panel to each dryer. Each dryer has its own terminal block that must be connected to a separate branch three-wire, 120/240 or 120/208 volt, 60 Hz, single phase circuit using at least No. 10 copper wire and fused at 30 amps; a grounded neutral wire must be provided. Do not connect dryers to 110, 115 or 120 volt circuits.
- 2. (Electric Models) If branch circuit to electric dryers is 15 ft. (4572 mm) or less in length, use UL approved No. 10 copper wire, or as required by local codes. If over 15 ft. (4572 mm), use No. 8 UL approved copper wire, or as required by local codes.
- 3. (Gas Models) Each gas dryer is designed to be operated on an individual three-wire grounded 120 volt, 60 Hz electrical circuit protected by a 15 amp fuse, equivalent fusetron or circuit breaker. (See specifications)

- 4. (Gas Models) Plug each dryer's power cord into a grounded 3-slot wall receptacle on a separate circuit. Do not operate other appliances on the same circuit when dryer is operating.
- 5. (Electric and Gas Models) All dryer installations should conform to the latest edition of the National Electrical Code, NFPA 70, and such local requirements as might apply.

GAS REQUIREMENTS
(also see Figure 1 below)

- 1. The gas dryer installation must conform with the latest edition of American National Standard Z223.1 (NFPA 54) National Fuel Gas Code.
- 2. Size of main gas supply unit will depend on number of dryer units connected. Consult local gas utility.
- 3. Where bottled gas (L.P.) is used, follow the specifications of the local gas company. A special conversion kit for L.P. is required. Consult your Speed Queen route operator for details.

VENTING REQUIREMENTS FOR SINGLE AND MULTI-DRYER INSTALLATIONS

- 1. The gas dryer installation should comply with the latest edition of the National Fuel Gas Code, Z223.1 (NFPA 54).
- 2. A 4" (102 mm) vent hood with a damper (for each dryer) should be placed in the wall behind the dryer while the building is under construction.
- 3. Exhaust pipe must be 4" (102 mm) in diameter having no obstructions. Rigid or flexible metal pipe must be used.

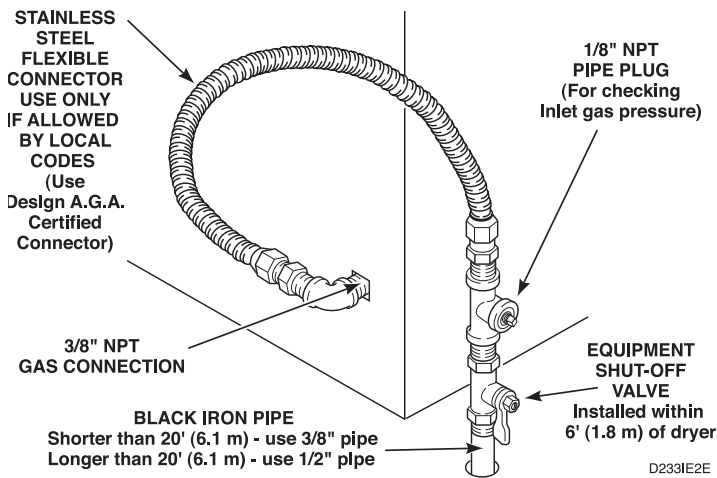
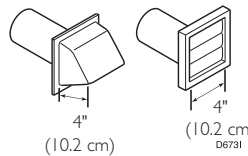
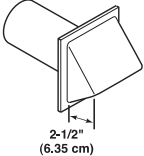


Figure 1

Weather Hood Type	
Recommended	
	
Number of 90° Elbows	Maximum length of 4" (102 mm) diameter rigid metal duct
0	65 ft (19.8 m)
1	55 ft (16.8 m)
2	47 ft (14.3 m)
3	36 ft (11.0 m)
4	28 ft (8.5 m)
0	45 ft (13.7 m)
1	35 ft (10.7 m)
2	30 ft (9.1 m)
3	25 ft (7.6 m)
4	20 ft (6.1 m)

Weather Hood Type	
Recommended	
	
Number of 90° Elbows	Maximum length of 4" (102 mm) diameter rigid metal duct
0	55 ft (16.8 m)
1	47 ft (14.3 m)
2	41 ft (12.5 m)
3	30 ft (9.1 m)
4	22 ft (6.7 m)
0	35 ft (10.7 m)
1	27 ft (8.2 m)
2	21 ft (6.4 m)
3	17 ft (5.2 m)
4	15 ft (4.5 m)

Installation Suggestions and Equipment Specifications Cont.

DO NOT use flexible plastic or thin foil ducting as it will greatly reduce the dryer's performance. Outer end of exhaust pipe must have weather hood installed at least 12" (305 mm) above ground. Always keep exhaust duct as short as possible.

4. Gas dryers can be vented from the right side, back, or bottom (except upper unit of stack dryer). Dryer can be installed flush to the wall at side and back. Electric dryers can be routed from left side as well.

5. The exhaust duct should not be built into the wall. If laundries are distributed in multi-story buildings, the duct size at the first floor should be at least 4" (102 mm) and should be increased in size 1" (25.4 mm) per floor to a maximum of 12" (305 mm). For the installation of several dryers where a main collector duct is used, see illustration for proper angle of airflow. Dryer exhaust duct should enter main duct at an angle of no more than 30° pointing in the direction of the airflow. Ducts entering the main duct from opposite sides should be staggered so as not to oppose each other. Provisions should be made for periodic lint removal and cleaning of the main collector duct.

6. If several dryers are exhausted into a main collector duct, it is essential that ductwork be adequate in size and properly constructed for efficient operation. Provisions for make-up air must be provided. Each dryer exhausts approximately 220 cubic feet* (6.1 m³) of air per minute.

* Measured at point of exit from the dryer.

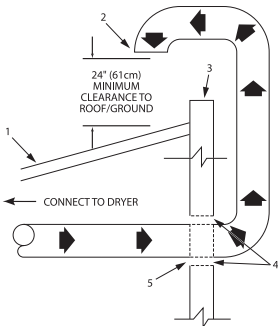
7. The main collector duct should be sized according to specifications presented in the chart below. The outside of the main duct should have a weather hood (with hinged damper) installed to prevent passage of weather elements, insects, dust and dirt into the dryer.

8. Each dryer should have a back draft damper kit, part number 58786.

Duct Station	Minimum Diameter of Collector Duct
A	4 inches (102 mm)
B	8 inches (203 mm)
C	9 inches (229 mm)
D	10 inches (254 mm)
E	11 inches (279 mm)
F	12 inches (305 mm)
G	13 inches (330 mm)
H	14 inches (356 mm)
I	15 inches (381 mm)
J	15 inches (381 mm)
K	16 inches (406 mm)

NOTE: Main collector ducts should be equipped with an auxiliary fan that can maintain the duct airflow at a minimum of 1,200 ft (366 m) per min. If you do not have a fan, clean the main collector duct at least twice a year.

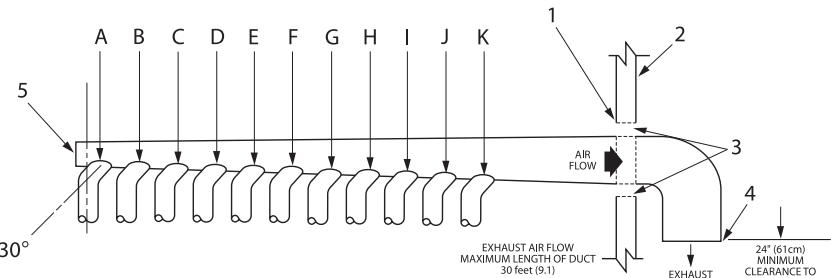
Electrical Requirements	
Electric Dryer and Stacked Dryer	60 Hz. 5350 watt element, 120/240V or 4750 watt element, 120/208V, 3-wire, 1 phase, 30 amp.
Canada	60Hz. 5,000 watt element, 120/240 or 120/208V, 4-wire, 1 phase, 30 amp on dryer; 60 amp on stacked dryer.
Gas Dryer and Stacked Dryer	60 Hz. AC, 120V, grounded 3-wire, 1 phase, 15 amp.
Canada	60 Hz. AC, 120V, grounded 3-wire, 1 phase 15 amp on dryer; 30 amp on stacked dryer.



VERTICAL EXHAUST INSTALLATION

- 1 Roof
- 2 No Screen or Cap
- 3 Wall
- 4 2" (5 cm) Minimum
- 5 NOTE: Where the exhaust duct pierces a combustible wall or ceiling, the opening must be sized per local codes.

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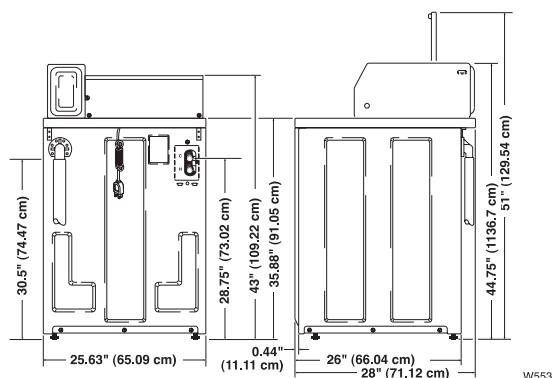
HORIZONTAL EXHAUST INSTALLATION

- 1 NOTE: Where the exhaust duct pierces a combustible wall or ceiling, the opening must be sized per local codes.
- 2 Wall
- 3 2" (5 cm) Minimum or Clearance per local codes
- 4 No Screen or Cap
- 2 Clean Out Cover - Inspect Monthly

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Product Options and Dimensions

Topload Washer



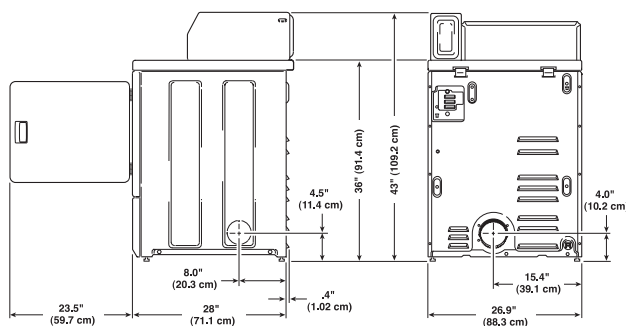
Washer has 3/4" (1.87 cm) connection for water mixing valve. Two water inlet hoses supplied with washer.

Drain hose is 5' (150 cm) long. 1" (2.5 cm) inside diameter.

Power cord has three-prong U.L. approved plug for connection to a grounded three-wire, 120 volt, 60 Hz electrical circuit. 15 to 20 amp. Use at least No. 12 wire, heavier for long distances.

Dimensions are with leveling legs. Stand pipe should be 36" high.

Single Load Dryer



Electric dryer can be exhausted in any direction, vented out rear; either side or base. Gas models have 3-way venting: right side, back and base.

Gas dryers available for natural gas, L.P. gas kit available. L.P. Gas Conversion Kit must be installed by the Manufacturer's Authorized Dealers, Distributors, or local service personnel. Power cord is furnished (120/60/1).

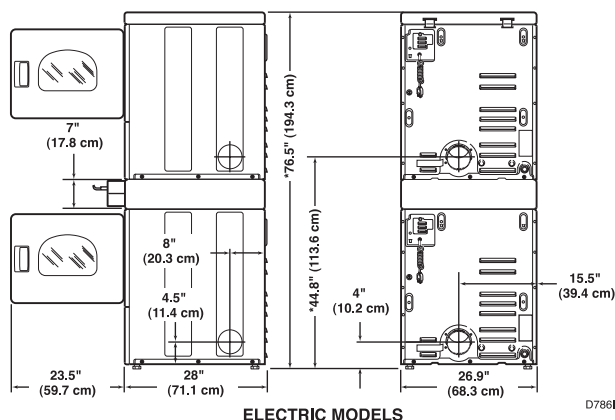
Electric dryer models do not have power cord furnished (120/240/60/1 or 120/208/60/1).



Gas Supply Connection: 3/8" (.937 cm) pipe provided at rear. Stacked dryer is delivered complete as one unit. Factory equipped for natural gas operation only. L.P. kits available.

L.P. Gas Conversion Kit must be installed by the Manufacturer's Authorized Dealers, Distributors, or local service personnel.

Solid door or door with window available.



*With leveling legs turned into base.

NOTE: Not all models have windows.

Stacked Dryer



Electric dryer does not have power cord furnished (120/240/60/1).