

## SPECIFICATIONS SHEET **HUBSCRUB** MODEL 20/30



### APPLICATION

For use in hospitals, long term care facilities, assisted living, rehab facilities, medical equipment providers, re-cycling organizations and by service businesses to clean and disinfect wheelchairs and other durable medical equipment.

### DESCRIPTION

The Model 20/30 durable medical equipment washer is controlled by an industrial micro-processor. The system will automatically cycle through wash, disinfect and rinse selections. Cycle times are selectable for soil conditions.

### DIMENSIONS

Exterior Overall (W X H X L):  
35.5 X 61.5 X 61.5"  
Wash Chamber Interior Available Space  
(W X H X L): 28.75 X 49 X 51.5"  
Wash Chamber Door Opening (W X H):  
30.25 X 43."

### WEIGHT

Approximately 330lbs

### MOBILITY

Two (2) swivel caster wheels located in the front (Door side)  
Two (2) fixed casters in the back  
Caster size is 1.25" X 4"  
Pull handles located on front for better control when moving from one location to another.

### CAPACITY

The model 20/30 accommodates two (2) standard wheelchairs folded, split rental beds, 2 commodes, or 2 shower chairs, or 2 over-bed tables, or multiple walkers or combinations of different washable equipment.

### SET-UP LOCATION

System positioned on a level floor to maintain accurate water level readings. Access to water, drain and 115V electrical outlet.

### ACCESS

Doorways should be slightly greater than 36" for the unit to pass through.

### SPACE REQUIREMENTS

Allow 3' for door swing plus at least 4' for wheelchair/equipment loading and unloading. Provide space for placing equipment out of the way for drying and loading. Allow 2' for opening the chemical door and changing out chemical containers on the back end.

### STANDARDS

Accreditation approved process  
UL/CSA System Components

### FEATURES

**Material** – Aluminum 13 gauge. Welded seams.

**Internal sink** – Stainless Steel

**Micro-processor** - Software programmable. New revisions for updates through communications or cartridge insert.

**Wash pump** – 3/4HP Centrifugal Booster pump, 5 stages, noryl impellers, rated 180 degrees F, overload protection.

**Drain pump** – 1/3HP Centrifugal pump, flow rate 6 gallons a minute.

**Filter System** – Continuous self cleaning for recycling water through wash pump. Two removable filter screens. One large mesh and another fine mesh bolted into position to protect wash pump and solenoid valves. Third filter for spray nozzles positioned on moving spray system with removable filter screen for cleaning.

**Door Safety** – Cycles cannot start unless door is closed. If opened during cycle, system services are shut off and cycle stops with status indicator.

**Cleaning Times** – 2 to 10 minutes based on selection.

**Moving Spray System** – Mechanically driven on both sides of chamber by continuous chain drive system with rotating forward and reverse direction. Spray nozzles positioned to reach front, back, sides and top of equipment surfaces including underside with optional underspray system. Spray pressures 40-50 PSI per spray nozzle with optional 1HP Booster pump.

**Venting** – Vent openings to release wash chamber expansion.

**Windows** – Roof window provides indirect lighting for the door window. User has a complete visual look at the system process through the door window.

## STANDARD FEATURES

### CONTROL PANEL

**Start/Stop** – Controls running system services. If cycle is stopped before completion, the cycle starts from the beginning when Start button is pressed.

**Status Indicators** – Shows standard run conditions and operator or system faults.

### CYCLE DESCRIPTIONS

Once cycle selections have been made, pressing the Start button will automatically begin the cycle without intervention until the cycle functions have been completed. Cycle times are based on what cleaning cycle has been selected and the rotation speed of the rotating spray system.

### CLEAN ONLY

During wash cycle, a measured amount of detergent is dispensed into the internal sink. The wash pump will pump mixed solution through the spray nozzles located on the rotating spray system and through the underspray system, if selected.

## UTILITY REQUIREMENTS

**HOT WATER** – Recommend standard hot tap water 110F to 120F. Access to a standard garden hose male faucet thread. Distance to faucet within 13' for supplied hoses. Water flow should be capable of filling a gallon container in approximately 10 to 15 seconds for standard setting.

**HOT WATER TANK** -\_If **HUBSCRUB** is operating in a facility where hot water is stored in a hot water tank, high volume cleaning may affect the supply of hot water in a low capacity water tank.

**DRAIN** – 2" diameter drain line raised 2-3' off the floor or utility sink or floor drain. Drain line capable of 6 gallons a minute flow rate. Distance to drain line within 13' for supplied hoses.

**ELECTRICITY** – standard 115V, 20 amp circuit with no other major appliances on the same circuit. Running amps; 9 to 11. 15' heavy duty electrical cord supplied.

**WATER USAGE**– approximately 3 gallons for quick wash/rinse or quick disinfect, 6 gallons for wash, disinfect and rinse.

**DOORWAYS** – Be sure to verify from the location that **HUBSCRUB** is received to the location where it will be installed, that doorways, elevators and walk ways will accommodate the dimensions of the selected model.

### RINSE

During the final rinse cycle, a measured amount of drying aid is dispensed into the internal sink and pumped through the spray system to rinse off chemical residue, soil impurities and removes any spotting on equipment surfaces. It also includes a rust inhibitor. At the conclusion of the rinse the system stops leaving rinse water in the internal sink to be used by the next wash cycle.

### CHEMICAL DISPENSING

Chemicals in liquid form are dispensed into the internal sink based upon their function and purpose in the cycle. Dispensing method is the use of a metering pump that draws the chemical through an opened valve, flow sensor, metering pump and into the internal sink. To minimize any chemical residue and build up left in the fluid line, a water purge function follows all chemical dispensing through the same fluid line.

### EMPTY INTERNAL SINK

To remove water from the internal sink independent of the automated cycles, an empty switch is provided. This function is used to empty the sink after all operations for the day. In addition, the Empty function is used as the means to empty water that has collected when using the Manual Spray Attachment for miscellaneous cleaning.

## MAINTENANCE / DIAGNOSTICS

**DIAGNOSTICS** – Software included to test each electro-mechanical device. Operator and system error conditions displayed for identification and correction.

**SYSTEM STATUS INDICATORS** - Examples include; low water, water fill time exceeds standard setting, drain time exceeds standard setting, chemicals are low, door opened while running, obstruction in the way of rotating spray arm, insufficient water in sink to run wash pump.

**MAINTENANCE** – procedures primarily include; cleaning filters for water fill, spray system strainers, chemical filters and filter for recycling water which are easily accessible.

### SYSTEM SELF MAINTENANCE

Filter screen for wash pump automatically cleaned when the screen becomes clogged. No cartridge replacements are necessary. Chemical lines automatically purged with water to rinse chemical residue that builds up over time.

## SERVICEABILITY

**ACCESS** – Due to the light weight, the entire unit can be lifted up to rest on its back or side allowing complete access to any part of the total unit. This can be particularly important if there is a need to evaluate a mechanical condition or any other part of the unit.

All electro-mechanical devices and wiring are easily accessible. Open architecture and mounting plates offer easy maintenance, replacement or repair. Electronics are convenient for access, inspection, repair or replacement.

## PHYSICAL MEASUREMENTS

