

# SPECIFICATIONS SHEET **HUBSCRUB** 20/80 MODELS V7.3



## **20/80 MODELS**

There are three 20/80 Models. 20/80-C uses a concentrate disinfectant that is mixed with water. 20/80-R uses a Ready To Use disinfectant no mixing of water. 20/80 UV uses Ultra-Violet UV to disinfect equipment.

## **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 20/80 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):

38.5 X 61.5 X 64.5"

Wash Chamber Interior Available Space

(W X H X L): 31.25" X 49" X 54.5"

Wash Chamber Door Opening (W X H):

33.25 X 42.25"

## **WEIGHT**

Approximately 385lbs

## **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 20/80 accommodates larger size wheelchairs, carts, geri chairs, broda, split rental beds. 2 wheelchairs folded or 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 at least 39" 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

## **GENERAL FEATURES**

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

**Internal sink and floor**– Stainless Steel

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

**Touchscreen** with extensive information features. USB entry for pdf information files to include; Maintenance, training, repair and video.

**Wash pump/motor** – 1HP Centrifugal Booster pump, 7 stages, noryl impellers, rated 180 degrees F, overload protection.

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

**Spray pump/motor** – 1/8hp, 24vdc, Permanent magnet, low amp, up to 130psi.

**Metering pump/motor** – chemical dispensing, 24vdc, Diaphragm

**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 displayed message.

**Cleaning Times** – 3 to 6 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.

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

**Window** – Door window for wash chamber 24" x 24". User has a complete visual look at the system process through the door window. .

## **CLEANING AND DISINFECTION FEATURES**

### **TOUCHSCREEN**

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

**TOUCHSCREEN** – Used to input and display current function in progress, mgt information, changes, extensive documentation, alert messages and explanations of alert messages.

### **CYCLE DESCRIPTIONS**

Once cycle selections have been made, pressing the Start on the touchscreen will automatically begin the cycle without intervention until the cycle functions have been completed. Cycle times are based on what cleaning or disinfection cycle has been selected.

### **CLEAN ONLY**

During a 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.

### **DISINFECTION**

During the disinfection cycle, a liquid disinfectant concentrate or Ready To Use will be dispensed and sprayed onto equipment surfaces. If UV is used for disinfection, the wash and rinse cycles are first completed and then the UV lamps come on for a measured period of time.

## **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** will be operating in a location 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. Longer hoses are available.

**ELECTRICITY** – standard 115V, 20 amp circuit with no other major appliances on the same circuit. Running amps; 9 to 12. 15' heavy duty electrical cord supplied.

**WATER USAGE** – approximately 4 gallons for complete wash, disinfectant and rinse operations.

**DISINFECTANT USAGE** – Based on disinfectant type, over 300 cycles are achieved with 1 gallon of disinfectant, 2.5oz for Ready To Use or with UV, over 2000 hours of use.

**DOORWAYS** – Be sure to verify from the location that **HUBSCRUB** is received, to the location where it will be installed, that doorways, elevators and walkways will accommodate the dimensions of the model 20/80.

### **RINSE**

During the final rinse cycle, a measured amount of rinse 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. Hard surfaces will be dry in 2 minutes using recommended water temperature. 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 or dilution sink based upon their function and purpose in the cycle. The only chemical that is dispensed into the dilution tank is the disinfectant. 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 or dilution 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 function is provided on the touchscreen. 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.

**DISPLAY MESSAGES** Some examples include; low water, water fill time exceeds standard setting, drain time exceeds standard setting, what chemical is low, door opened while running, obstruction in the way of spray arm, total wash cycles, ...

**MAINTENANCE** – procedures primarily include; cleaning filters for water fill, spray system strainers, chemical filters. Maintenance reminders and instructions are available on the touchscreen.

### **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 leaned on its side allowing complete access to any part of the total 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.