

# LIBERTY REQUIREMENTS AND SPECIFICATIONS

For proper operation, customer-provided utilities should meet at least the minimum requirements described here.

## AIR REQUIREMENTS

Air requirements that follow apply to machines with and without Reclaim.

**Minimum 3/8 inch ID line at 100 PSI at 9 SCFM flow.**

**Maximum pressure of 120 PSI at 9 SCFM flow.**

## WATER REQUIREMENTS

Liberty With Reclaim	Liberty Without Reclaim
1 inch service Minimum at 20 GPM (75 LPM) at 50 PSI (345 kPa) for reclaim unit without TriFoam Wax <i>or</i>  25 GPM (95 LPM) for reclaim unit with TriFoam <i>or</i>  45 GPM (170 LPM) at 50 PSI (345 kPa) for <i>reclaim units with fresh water capabilities and no Rocker Panel Blaster.</i>	1 ¼ inch service Minimum at 45 GPM (170 LPM) at 50 PSI (345 kPa) for <i>fresh water units</i>
With Rainmaker III	With Rainmaker III
Add 8 GPM (30 LPM) to the value listed above.	Add 8 GPM (30 LPM) to the value listed above.  Add 10 GPM (38 LPM) with Stand Alone Rocker Panel Blaster or with Rocker Panel/Fixed UnderCar Combined Manifold.
With Rocker Panel Blaster or Rocker Panel/Fixed UnderCar Combined Manifold	
Add 10 GPM (38 LPM) to the value listed above for <i>reclaim units with fresh water capabilities.</i>	Add 10 GPM (38 LPM) to the value listed above for machines <i>without</i> reclaim.

The pipe information below indicates the typical incoming water line size necessary for the required flow. These sizes are only guidelines and variations should be expected.

35 GPM (132 LPM) -1.25" pipe  
 50 GPM (189 LPM) -1.5" pipe

**IMPORTANT: PERFORM A LOCATION ANALYSIS OF WATER SPECIFICS TO DETERMINE THAT THE WATER LINE SIZING WILL ALLOW THE REQUIRED PRESSURE AND WATER FLOW MINIMUMS.**

**IMPORTANT: WATER USED FOR PRESOAK WITH THE RYKO LIBERTY VEHICLE WASH SYSTEM SHOULD BE ZERO GRAINS SOFT.**

**IMPORTANT: THERE SHOULD BE NO RESTRICTIONS IN THE AIR OR WATER LINES.**

## ELECTRICAL REQUIREMENTS

380/415V, 3 Phase, 50 Hz, 50 AMPS *or*

380/415V, 3 Phase, 50 Hz, 65 AMPS (if presoak heaters will run at the same time as the high impact pump)

**Note:** Additional electric service will be required if options such as reverse osmosis, or electric water heater, and electrical wash bay considerations (lighting, air compressor, etc.) are installed on or with the Liberty.

## **RECOMMENDED BAY DIMENSIONS**

**Note:** Machine Operations Described In This Manual Pertain To Equipment Installed In Bays Constructed To Recommended Dimensions. Operations May Alter Slightly When Equipment Is Installed In Bays Constructed To Less Than Recommended Dimensions.

		<b>Minimum</b>	<b>Recommended</b>
<b>Width:</b>	Without On-Board Dry	14'-0" (4270 mm)	15'-6" (4725 mm)
	With ThrustPro Dryer	14'-0" (4270 mm)	15'-6" (4725 mm)
	With Slim Line Dryer	14'-0" (4270 mm)	15'-6" (4725 mm)
<b>Length:</b>	Without On-Board Dry	27'-0" (8230 mm)	30'-0" (9145 mm)
	With ThrustPro Dryer	34'-0" (10365 mm)	51'-0" (15545 mm)
	With Slim Line Dryer	29'-6" (8990 mm)	34'-0" (10365 mm)
<b>Height:</b>	84" Machine (2134 mm)	10'-4" (3150 mm)	12'-0" (3655 mm)
	90" Machine (2286 mm)	10'-10" (3300 mm)	12'-0" (3655 mm)