

System Dimensions

Figure 21 and Figure 22 illustrate the system space requirements.

Width 178.3 cm (70.2") with side doors open: 296.8 cm (116.9")

Length 231.1 cm (91.0") with service access: 292.1 cm (115.0")

Height 198.4 cm (78.1") with beacons: 223.3 cm (87.9")

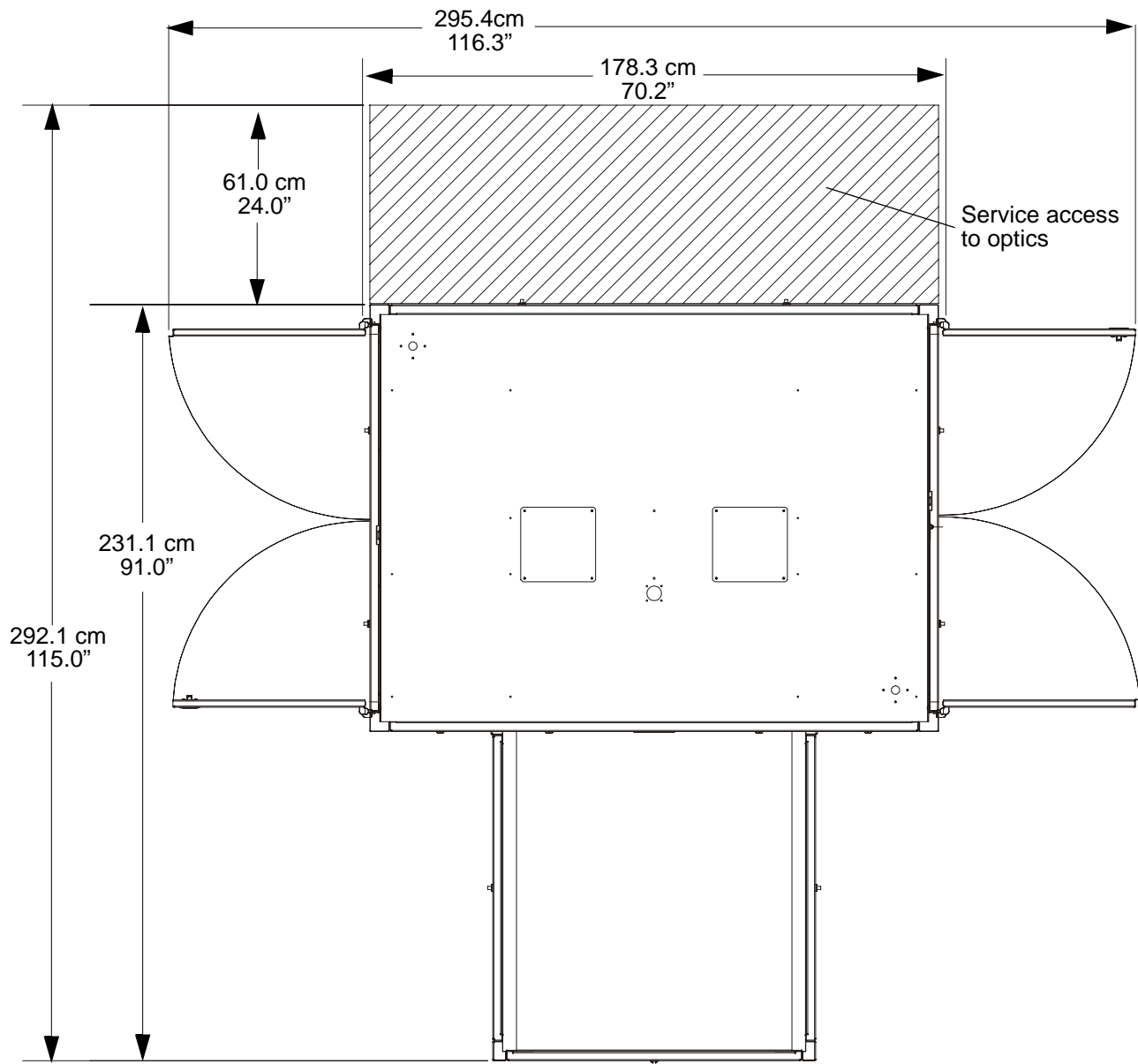


Figure 21. System footprint dimensions: top view

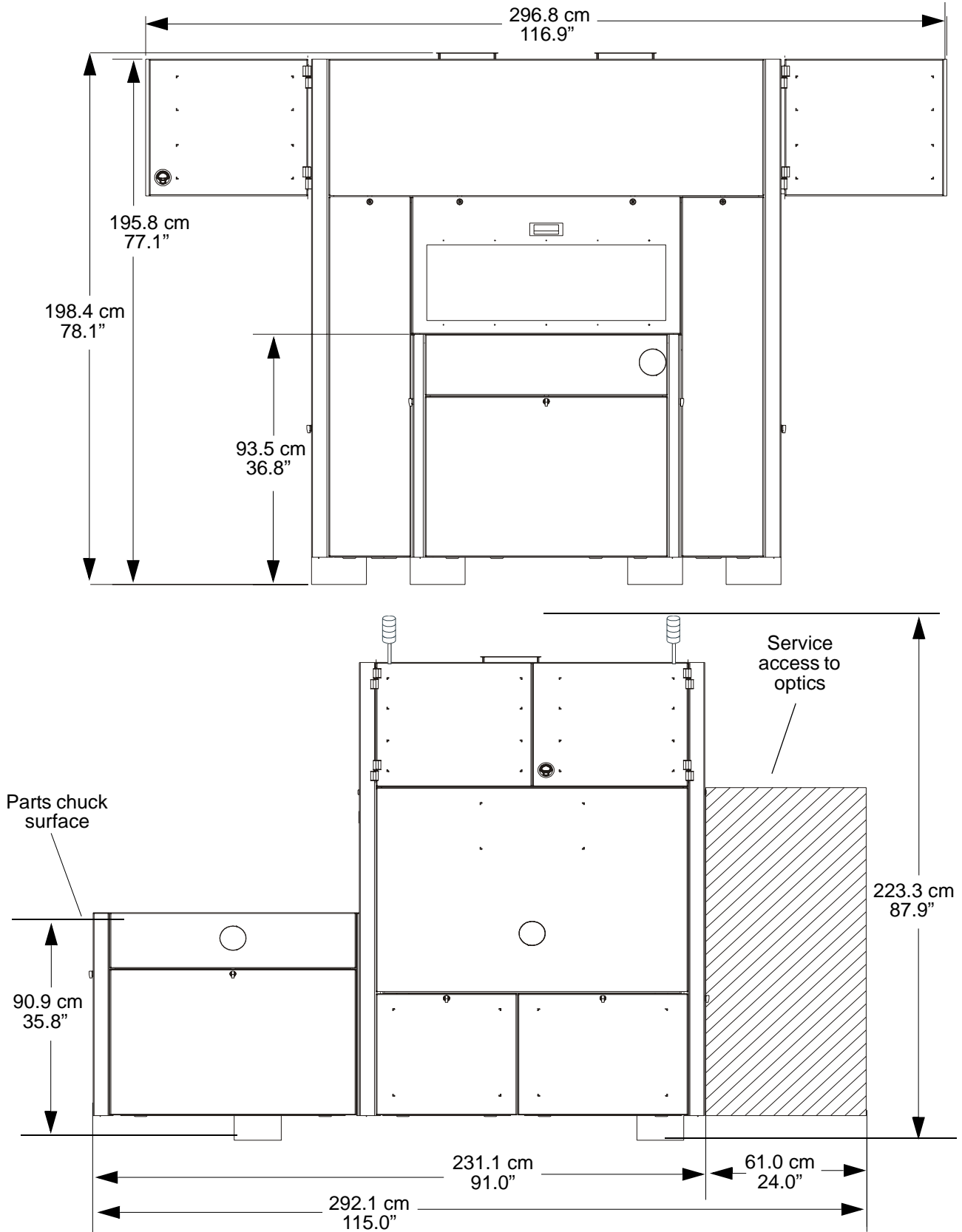


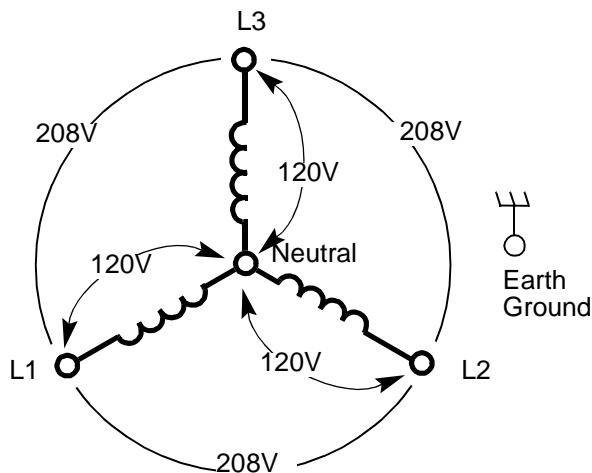
Figure 22. System footprint dimensions: front and side views

Facilities Electrical Power Requirements

Electrical Power: 208 VAC $\pm 10\%$, three-phase (Table 2), 5-wire wye (Figure 23), 50/60 Hz, 20 Amps per phase, load leg-to-leg not balanced

Table 2. Typical three-phase power configuration

Voltage	208 VAC, three-phase Wye-type
Frequency	50/60 Hz
Current	20 Amps/phase



5-Wire Wye Connection

- 1 - Phase A line (lags C by 120°)
- 2 - Phase B-line (lags A by 120°)
- 3 - Phase C-line (lags B by 120°)
- 4 - Neutral
- 5 - Ground

Figure 23. Example of a 5-wire Wye connection (all five wires used)

Facility electrical power must conform to voltage sag duration and percent deviation from equipment nominal voltage as set forth in table 1, SEMI F 47.

For best system performance, ESI recommends that you have a dedicated electrical power line from the utility source. Refer to your national electrical codes for information regarding main power connections.

Surge Protection:

You must protect the system from power surges. Contact your local power company for information concerning power surges.

Clamp (limit) surges at 500 volts per phase. The surge protection device must be able to absorb 2 Joules.

Pneumatics

This section specifies the requirements for air and vacuum.

Compressed Air

Compressed air is required for the load door and the debris-removal assist feature, which is air delivered by a nozzle to the working surface to assist debris removal. The debris-removal assist air is turned on during processing and off after processing by the processing software.

The requirements for compressed air are as follows:

Type	Continuous, filtered compressed air*
Air pressure	Minimum 550 kPa (80 psi); maximum 862 kPa (125 psi)
Flow	5 normal liters/second (10 standard cubic feet/minute)
Hose connection	9.5 mm (3/8 inch NPT) female connection, ESI Scovill Saflomatic-50 series Quick Disconnect or equivalent

*The air supply must conform to ISO 8573-1; Class Number 3, with a stricter tolerance on oil content as follows. Note the maximum dew-point temperature requirement to prevent condensation and resulting corrosion.

Solids	Maximum particle size	5 μm
	Maximum solid body density	5 mg/m^3
Water	Maximum dew point at supply pressure	-20° C
Oil	Maximum concentration	0.003 mg/m^3
	Coalescing filter element size	0.01 μm
	Filter efficiency for 0.3 to 0.6 μm particles	99.999%