

CD-19 Specifications

REV 0 07/07/2015

ELECTRICAL

Power Supply:

115±10% VAC 47-63 Hz. Single Phase 6 amps (Nominal)

Connection to Supply: Hooded connector into CR machine

Protection Against Electric Shock: Grounded metal enclosure

AIR SUPPLY

Average air requirement 2 cfm (56 L/m) 80 psi (5.5 bar)

DIMENSIONS

Bowl Height from floor 41.7 inches (1059mm)

Overall assembly

Height 44.4 inches (1128mm)

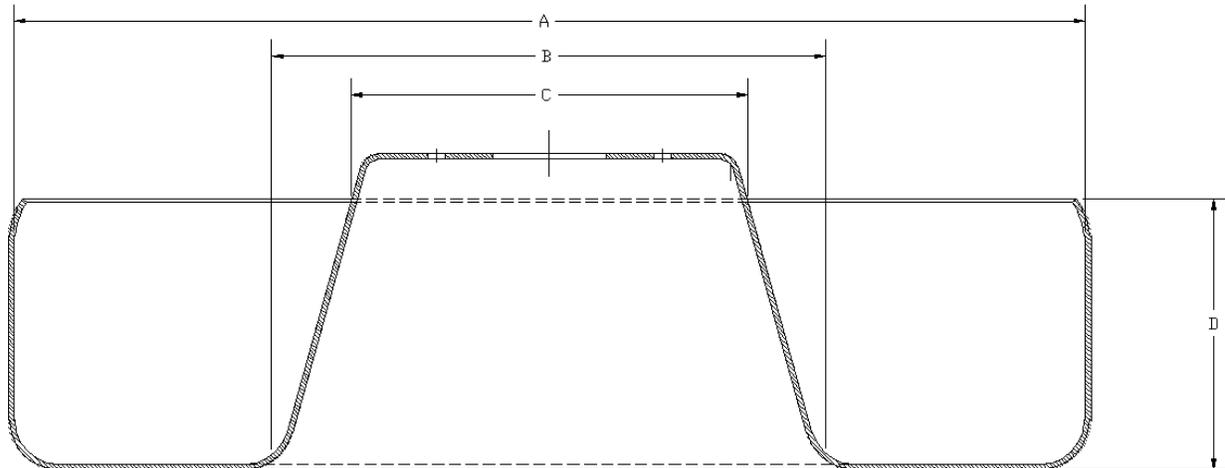
Length 57.4 inches (1458mm)

Depth 25 inches (635mm)

Weight 150lbs (68kg)

BOWL DIMENSIONS





For bowl 81521-1 12 inch 305mm diameter

Outer dimension of coil

A=11.8 inches 300mm

Inner dimension of coil

B=5.7 inches 145mm at bottom of bowl

C=5.2 inches 132mm at top of bowl

Height of coil

D=2.9 inches 74mm at top of bowl

GUIDE TUBE SIZE

The inside of the guide tube is 0.652 inches 16.5mm. The maximum terminal width that can be run is dependent on the flexibility of the wire. A more flexible wire will allow the terminal to go through at an angle so extra space is needed to accommodate the length of the terminal plus the wire extending out from the terminal.

BOWL CAPACITY

The cross sectional area of the 12 inch bowl (81521-1) is 25.0 square inches.

The average diameter is 8.53 inches. The volume is 230 cubic inches

The wire can pile up in one of two ways it could stack up squared off or it could nest into the cable below it. The worst case is that it will nest squared off. So we will use this to compute the area that the cable will use in the bowl (cable diameter²)

Because we cannot actually coil to the top of the bowl, the cable may cross over itself and you need room to reach in your hand, we will have to assume that we can only fill the area to 40%.

For bowl 81521-1 12 inch 305mm diameter

$2.4404/(r^2) = \text{length of cable in bowl in feet}$