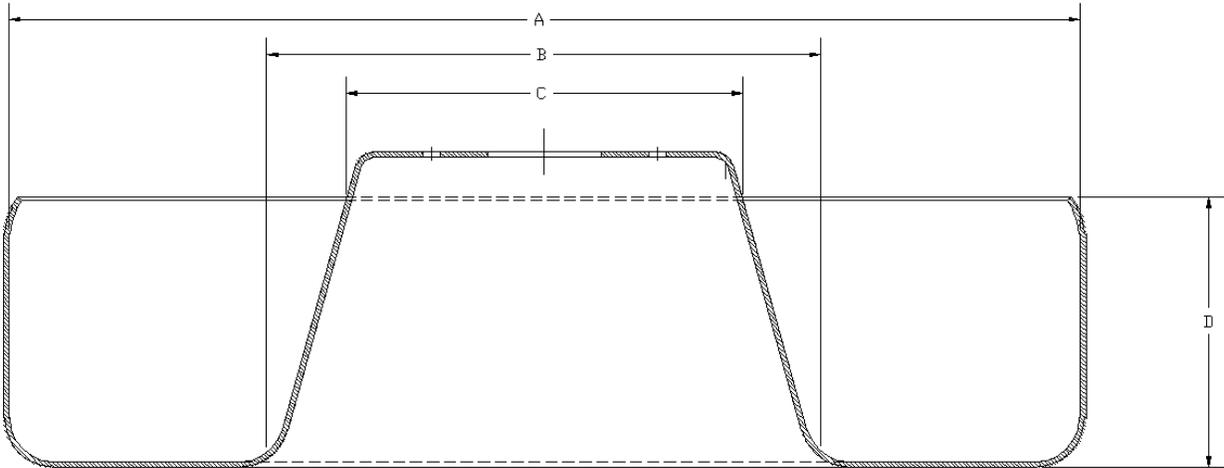


# CD-11 Specifications

REV 3 12/09/2015

## 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

### For bowl 81521-2 16 inch 406mm diameter

Outer dimension of coil

A=15.8 inches 401mm

Inner dimension of coil

B=9.7 inches 246mm at bottom of bowl

C=9.2 inches 234mm at top of bowl

Height of coil

D=2.9 inches 74mm at top of bowl

**For bowl 81521-3 16 inch 406mm diameter**

Outer dimension of coil

A=15.8 inches 401mm

Inner dimension of coil

B=5.7 inches 145mm at bottom of bowl

C=5.1 inches 130mm at top of bowl

Height of coil

D=3.8 inches 97mm at top of bowl

**Guide tube size**

The inside of the guide tube is 32mm. The maximum wire diameter is somewhat dependent on the how sticky the wire insulation is. In general the maximum size wire you could run is 30mm

**How much wire will fit in the bowl**

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 cross sectional area of the 16 inch bowl (81521-2) is 25.0 square inches.

The average diameter is 12.63 inches. The volume is 360 cubic inches

The cross sectional area of the 16 inch bowl (81521-3) is 39.3 square inches.

The average diameter is 10.63 inches. The volume is 660 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 diameter<sup>2</sup>)

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%.

To compute the length of wire in feet that would fit in the bowl.  $r = \text{outside diameter in inches}/2$

**For bowl 81521-1 12 inch 305mm diameter**

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

**For bowl 81521-2 16 inch 406mm diameter**

$3.8197/(r^2) = \text{length of cable in bowl in feet}$

**For bowl 81521-3 16 inch 406mm diameter**

$7.0028/(r^2) = \text{length of cable in bowl in feet}$

## **Electrical**

Power Supply:

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

or

230±10% VAC 47-63 Hz. Single Phase 3 amps (Nominal)

Connection to Supply: Detachable cord

Protection Against Electric Shock: Grounded metal enclosure

## **AIR SUPPLY**

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