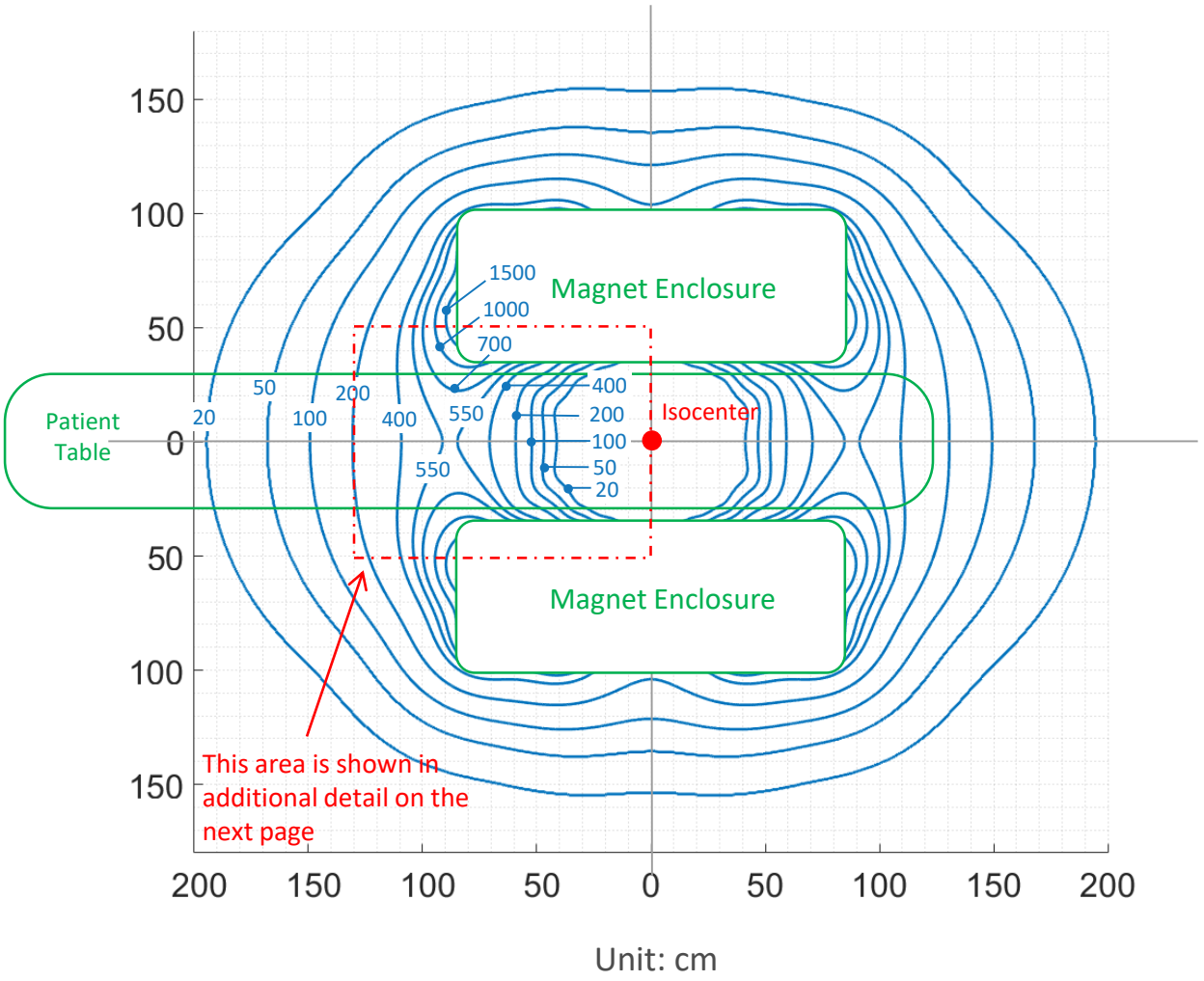
Spatial gradient contour maps for Architect systems

This contour map shows the spatial gradient for **Architect** system (which is a 3T system with 70cm patient bore and **3TLC** magnet.)

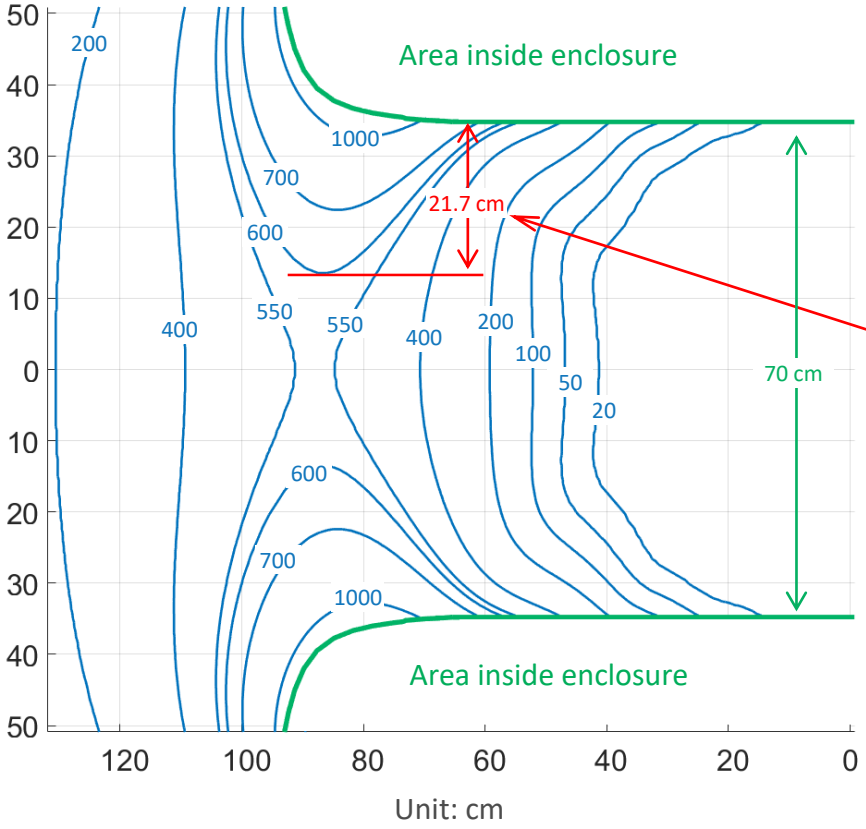
The map covers a range of ±2 meters from isocenter along the magnet's axis, and ±1.8 meters across the magnet.

Minimum entry spatial gradient:
To reach the center of the magnet requires passing through at least a SG=**556** G/cm.

The contour locations and patient bore dimensions are accurate to isocenter. However, the enclosure's exterior shape is approximate, due to differences between enclosure designs.



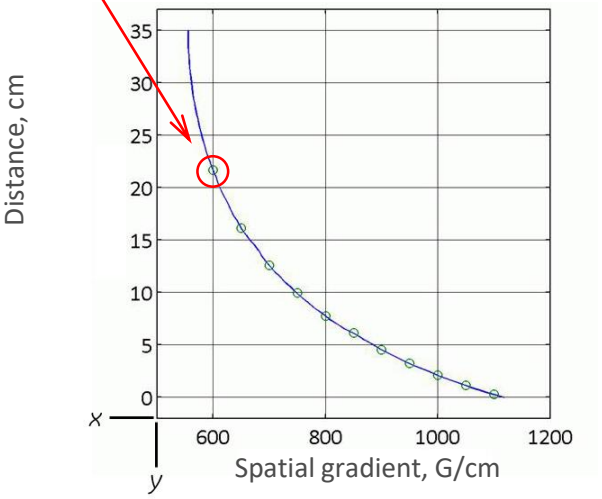
Detail contour maps for Architect systems



Spatial Gradient, G/cm	Distance ***D***, cm
<556	35*
600	21.7
650	16.2
700	12.6
750	9.9
800	7.8
850	6.1
900	4.5
950	3.2
1000	2.1
1050	1.1
1100	0.3
≥1130	0

* This is the minimum entry SG, where ***D*** reaches half of the bore diameter.

D can be read from the map, the table, or the plot. At 600 G/cm, ***D*** is 21.7 cm.



This contour map zooms in on the area near the mouth of the magnet. The map shows how far a given contour reaches pasting the bore wall. This is distance D – it can be read from the contour map, from the table or from the plot. The enclosure shape is accurate in this plot.

An example – marked in red in the plot, the table, and the graph – shows that for SG of 600 G/cm, distance D is 21.7 cm. This leaves an "opening" of 26.6 cm.

imagination at work