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## CONVERTIBLE CHEMICAL SYNTHESIS SYSTEM

In order to accelerate time to market and decrease production and service costs, MPR designed a new convertible chemical synthesis system satisfying the technical needs of two devices simultaneously. The automated chemistry module can be used with both positron emission tomography (PET) or in the production of Fluorodeoxyglucose (FDG) for use in diagnostic imaging. HUCKdesign<sup>SM</sup>, a service of MPR's Product Development Group, provided the industrial design expertise for the unit. The presence of extremely aggressive chemicals prevented the use of most commercial finishes resulting in the use of anodized brushed aluminum and polished stainless steel exterior panels. The installation of the disposable components was carefully assessed and supported by graphic traces and informative copy created by HUCKdesign<sup>SM</sup>. Supervision of prototype fabrication and assembly were provided as part of a comprehensive industrial design plan, with the device being ready for market in less than eight months.

