

Project Name:	Pharmaceutical Vacuum Evaporator Concentrator
Customer:	Large Pharmaceutical Manufacturer
Sector:	Pharmaceutical
PLC:	1 x Siemens S7-300
SCADA:	Wonderware InTouch, with Accord ActiveX controls.
Networks	Ethernet & Profibus
I/O count	240 I/O

Project Summary;

The system consists of 2 Reactors and a receiving Tank, with function to concentrate from 500L to 6L by evaporation at low pressure. The system is fully automatic with programs for CIP of each of the Vessels, Blanketing with Nitrogen, and Concentration. The Concentration phase is composed of 26 unique steps for a comprehensive and safe process and has 5 options for temperature profiles during the evaporation.

The system is built in an S88 manner using Accord, with individual monitoring for each Control Module and Equipment module. In total there are 120 Automatic devices in the PLC system.

The PLC code was Accord Standard code with signals interactions for external equipment and CIP co-ordination, and the Scada was built in InTouch using Accord ActiveX Controls. The Scada was built as a Client and Server in order to satisfy client requirements for a Zoned application.

Project requirements;

- Consultation for Design of PLC, Scada and Electrical Panel
- Generation of Accord Model for the Process
- Configuration of Scada screens with Accord ActiveX objects.
- Generation of FDS and Operator Manual
- Installation and re-commissioning of system

The system was designed and tested at Logicon and FAT tested in Germany and installed on site for the Pharmaceutical Manufacturer client. The commissioning occurred over 2 weeks and was very successful. The plant has been in daily operation for many years and the only change was an upgrade of Scada for Windows operating system update.

The project demonstrated Logicon's ability to develop High Quality systems for long term stable operation using secure object oriented methods.