

BATCHXPERT SYSTEM COMPARISON

General system

	BATCHXPERT	BRAUMAT	BOTEC
OPERATING STATION REQUIREMENTS	Medium performance computers	Low and medium performance computers	Medium performance computers
REDUNDANCY	Each Operation station is a server for the entire plant. Up to 8 redundant servers possible.	Two Servers per Process Area, the rest are clients	Two Servers per PLC, but it has a central server, which is not redundant. If this fails, the entire plant fails.
CONFIGURATION TOOLS	Very extensive and modern tools, with many comfortable functions	Extensive tools, not very modern	Extensive tools, not very modern
ENGINEERING TOOLS	Yes, with many Import and export functions to various formats	No, Limited functions for import and export.	Yes, Optional, with very limited import and export functions.
DATABASE	Microsoft SQL Express or better	Owner	Microsoft SQL Standard only
NUMBER OF RECIPES	Unlimited	Unlimited	Unlimited
RECIPES ADJUSTABLE BY END USER	Yes, completely	Yes, completely	Nominal Values Only
LICENSE	1 license per Plant + 1 license per HMI. Freely obtainable licenses.	1 license per Server + 1 Licenses per Clients. Freely obtainable licenses	Unknown, only through Krones. No sale of licenses to third parties.
OS	Windows 11, Windows 10, Windows 8 and Windows 7	Windows 7 only	Windows 7 and Windows 10 only
ANTIVIRUS SUPPORT	Yeah	Yeah	No
FIREWALL SUPPORT	Yeah	Yeah	No
WINDOWS UAC SUPPORT	Yeah	Yeah	No
ENGINEERING TIME	Generally short, due to the engineering tools and the simplicity of the system	Generally short, due to the simplicity of the system	Generally long, due to the lack of tools and the complexity of modifications to the system



Display

	BATCHXPERT	BRAUMAT	BOTEC
VISUALIZATION	VisXpert 9. Supports very complex animations and visualizations. Open and well known.	Integrated, very limited. Only supports images and objects. Complex animations not possible. Open and well known.	Ist Iltis. Supports very complex animations and visualizations. Closed, service only through Krones.
OBJECT LIBRARY	Yes, expandable as needed	Yes, not expandable	Yes, expandable as needed
NUMBER OF IMAGES OR TAG	Unlimited	Unlimited	Limited by License.
SUPPORT FOR TOUCH SCREENS	Yes, Based on Movicon SCADA system or WinCC Flexible, WinCC Basic or WinCC Confort	No	No
VIEWING AND MANAGING HYGENE STATUS	Yes, for each unit	No	No

Reports

	BATCHXPERT	BRAUMAT	BOTEC
REPORTS	Reports Adjustable by the end user. Reports in Word, Excel and an integrated viewer.	Fixed reports, not modifiable through an integrated viewer.	Fixed reports, not modifiable in Excel. Batch Report Only
LOT TRACEABILITY	Yes, included in the license	No	Yes, optional
REPORTS BY WEB BROWSER	Yes, Batch Reports, Manual Operations and Batch Summary	Yes, only Batch reports	No
EXCEL REPORTS	Yes, adjustable by the end user	No	Yes, optional
RECORDS ALL MANUAL INTERVENTIONS	Yeah	Yeah	No
ALARMS	Yes, saved in SQL server	Yes, in a proprietary format with export options	limited in a proprietary format with no export option
TRENDS	Yes, saved in SQL server	Yes, in a proprietary format with export options	limited in a proprietary format with no export option



PLC and IO Quantity

	BATCHXPERT	BRAUMAT	BOTEC
PLC REQUIREMENTS	All S7s from 512kB of memory. Supports S7-300, S7-400 and Vipa S7	S7 from 2 MB memory, only S7-400 from Siemens	S7 from 2 MB memory, only S7-400 from Siemens
UNITS PER PLC	200	128	99
PLC ACTUATORS (VALVES, MOTORS)	1600	1000	Until memory is full, typically around 1500
ANALOG VALUES BY PLC	480	512	Until memory is full, typically around 300
NUMBER OF STEPS	200 Units x 255 Steps each	1000	100 Units x 255 Steps each
FIELD BUS	Profibus, Profinet, Modbus	Profibus, Profinet	Profibus
AUTOMATIC BACKUP	Yes, all Blocks + Hardware Configuration	Yes, all Blocks + Hardware Configuration	data only, without Blocks or Hardware Configuration