

QUANTUM VS. QUANTUM LX

Feature	Quantum	Quantum LX
Software		
Capacity Control	Maximum of 2 of the following options: Suction Pressure, Process Temperature, Discharge Pressure, User Selectable Input	4 User Defined Modes (Any Defined Analog Input can be used for Control)
Oil Pump Control		
• No pump	X	X
• Demand (Includes Prelube and Cycling)	X	X
• Full Time	X	X
• Dual pumps	X	X
• Shaft Driven	X	
• Shaft with Auxiliary	X	
Balance Piston Control	X	X
Alarms		
• Current Display	19 Available	21 Available
• History / Freeze Display	50 Available	128 Available
Dual Discharge Pressure Control (Swing Compressor)	X	X
Electric Motor Drive Constant Speed	X	X
Electric Motor Drive Variable Speed (wired)	X	X
Vyper Electric Motor Drive Variable Speed (Comm)		X
Engine Drive	X	X
Turbine Drive	X	X
Discharge Safeties	X	X
High Suction Safeties	X	X
Oil Safeties	X	X
Main Oil Injection Control	X	X
Liquid Injection Control (TX valve, EZ Cool)	X	X
Oil Filter Safeties	X	X
Hot Gas By-Pass Control	X	X
Slide Valve 1 Control	X	X
Slide Valve 2 Control	X	X
Economizer Control	X	X
Setback	Time based switching between Mode 1 and Mode 2 of selected Capacity control option	Time based switching between 4 user defined modes
8 Digital Input Auxiliaries	X	X
10 Analog Input Auxiliaries	X	X
Pumpdown Control	X	X
DX Circuit Control	X	X
PID	4	8 Analog Outputs Total
User Defined Analog Output (Re-Transmit)	1	8 Analog Outputs Total
Condenser Control		
• Digital Steps	4	4
• Analog Control	1 Analog Output integrated with Digital Step #4	1 PID loop
Multiple Compressor Sequencing	Upto 4 Frick compressors on a common suction pressure via serial communications	Upto 24 Compressors, 3 suction pressure systems with 8 compressors each via Ethernet communications. Interlocking between suction systems is available also. All compressors must have Quantum LX controllers
Permissive Start	X	X
Input Mode Selection	X	X
Pull Down	X	X
PhD Vibration Monitoring	X	X
Security	<p style="text-align: center;">3 levels available:</p> <p>No Access – Prevents operator from changing any setpoint or password.</p> <p>Moderate Access – Allows operator to change setpoints, but prevents changing safety setpoints and passwords.</p> <p>Full Access – Allows operator to change all setpoints and passwords.</p>	<p style="text-align: center;">3 User Levels of access available</p> <p>User Level 0 – Basic - Most graphical displays, very limited access to setpoints (capacity control only).</p> <p>User Level 1 – Advanced – Less graphical displays, access to setpoints, and trending.</p> <p>User Level 2 – Service – Less graphical displays, access to setpoints, trending, compressor configuration, diagnostics.</p>

