

JTL FIRMWARE VARIATIONS		HP320
RELEASE	DESCRIPTION	DATE
0.5.946	Original issue.	Oct 2018
1.5.1124	ADC diagnostics corrected. Base board PIC information enhanced	Feb 2019
2.5.1124	Adjustable analogue filtering added. High and low sensor fault flags deglitched. High cooler exit temperature alarm added on item 87. Adiabatic cooling added. Ambient temperature differential error to Met office temperature added. Adiabatic cooling healthy added on input 4. Adiabatic cooling enable added on output 3. Adiabatic cooling fault added on item 95. Ambient temperature error setpoint added on item 39. Minimum fan speed output voltage added (388). Minimum adiabatic cooling run time added. Minimum adiabatic cooling off time added. Minimum ambient temperature to allow adiabatic control added. Exit temperature difference to run adiabatic control added. Exit temperature delay time to run adiabatic control added. Adiabatic test period added. Adiabatic test time of day added. Adiabatic test day added. Adiabatic test repeat cycles added. Correct operation for clearing executing flag due to assembler linker error. Met Office temperature added. Pressure data handling changed to support kPa and bar A on panel display with full support for differential pressure data. Condenser exit temperature added. Selectable condenser inlet temperature or liquid temperature added on item 135. Enable external ambient temperature added on item 137. Refrigerant glide operation added using mean of dew and bubble data. Mu in used corrected for Phoenix operation.	July 2020
2.5.1416	Phoenix upgrade. Maths functions moved to Phoenix. Refrigerant tables moved to Phoenix. Transducer full scale increased to 580 psi. Exit temperature alarm strategy selection added on item 158.	Aug 2020
3.5.1416	Corrections to high temperature alarm algorithm. Control temperature error added on item 159.	Aug 2020
4.5.1429	Phoenix upgrade for enhanced maths. Adiabatic test cycles replaces repeat cycles. Exit and inlet temperatures IP broadcasting added. Forced fan speed error introduced in v2 corrected.	Sept 2020