

JTL FIRMWARE VARIATIONS		HP140
VERSION	DESCRIPTION	DATE
v0.00.0	Production issue	Sept 2013
v0.00.1	Dependency corrected on item 386. Dependencies removed on item 365 and items 350. Current zone number visible on item 954. This requires an appropriate version of the network controller to work. Valve and set point for communication switched when controlling the discharge superheat.	Oct 2013
v0.00.2	R407C added. Default gain & time constant changed. Discharge pressure range extended. Discharge pressure default changed. Discharge pressure logging corrected. Fan step logging corrected. High and low discharge pressure alarms operational when on discharge superheat control.	Nov 2013
v0.00.3	Low discharge pressure alarm delay added on item 362.. Display backlight control added. Graphical alarm but display added to MU items Dew figures used for condenser optimisation instead of bubble figures. Minimum fan speed control added Output range for fan now in 0.1% intervals. Gain range changed to 0 - 100. Time constant allowed to be set to 0 which disables the integral operation Code allows phoenix processor use. Not operational with current hardware Display error corrected. EVD valve control setpoint added on item 59. Start address for PROM check sum redefined. Special cases added for initial power up (1 st minute) in both Phoenix and non Phoenix modes. Call to write NVRAM added on default write of unit nos and factory settings. Unsafe data timer initial value extended to 120 sec. Temperature difference items such as superheat, deadband, etc display on MU in Fahrenheit corrected.	Apr 2015
v0.00.4	Start of time moved to Jan 1 st 2016 Time interrupt service users processor instead off RTC. EVD valve control added. Second cooler control added based on discharge temperature using selectable on/off or speed control.. Refrigerants R448A and R449A added.	Jan 2017
v0.00.5	Setting error for items 480 & 482 corrected.	Jan 2017
v0.00.6	Latest library code used. Comms level raised to 6 Auxiliary cooler temperature range allowed down to 10C. Graphical display added to items 100, 160 & 170.	Jan 2018
v0.00.7	Pressure ranges extended at lower end for CO2.	Apr 2018