

JTL SOFTWARE VARIATIONS		ECAS
VERSION	DESCRIPTION	DATE
v0.00.0	All probes faulty added.	May 90
v0.00.1	Bitswitch setting now displayed on item 8. Defrost valve type selection added for normally open or normally closed valves on item 48. Temperature probe excitation value added on item 89. (Factory set) Air off or evaporator probe can now be selected to terminate defrost on item 35. Suction line or Comms initiated defrost selection added on item 45.	Aug 90
v0.00.2	Associated compressor pack number removed from item 100. Air off setpoint for compressor pack now displayed on item 101.	Sep 90
v0.00.3	Digital display test added on item 99. Defrost input state displayed on item 71. Defrost relay can be selected to control or terminate defrost on item 75.	May 91
v0.00.4	Type number reverted to 30 from 39. Number of defrosts per day alarm added (items 69 and 94). Defrost valve selection moved to item 68 from item 48. Probe temperature upper limit increased to 70C for hot gas defrost applications. Liquid hold-off time added on item 49.	Feb 92
v0.00.5	UPGRADED TO INCORPORATE EC, ECCN, ECRB AND ECLS FUNCTIONS Period for alarm averaging (item 47) default changed to 1 hour. Defrost valve type (item 68) default changed to normally open. Liquid hold off and shutdown added to operating mode (item 70). Forced refrigeration added to item 79. Probe selection for Elm and CDK probes added on item 102. Pack defrost command cleared on suction initiated defrost. Termination temperature only checked only when on defrost or defrost recovery, ensuring that defrost must be initiated before termination. Number of defrosts a day alarm operation amended. For 30 minutes after power up (hardware restart) the suction initiation sequence is modified. Defrost is not detected until the suction temperature falls 5 degrees below the initiation temperature. The defrost output status on item 72 is modified to show control and termination modes of operation. Controller shutdown via communications added. The selection function for this is on item 62. In shutdown mode all outputs are off and alarms are cancelled. Communications shutdown alarm added on item 87. The shutdown command is shown on item 63.	Feb 95
v0.00.6	Software relinked to support 93C06 serial NVRAM. No program changes.	Aug 97