

JTL SOFTWARE VARIATIONS		LC2C
VERSION	DESCRIPTION	DATE
v0.00.0	Production issue	Oct 96
v0.00.1	<p>Pump down made available on network and contact initiated defrost</p> <p>Defrost information correctly initialized on power up.</p> <p>Pump down sequence changed to keep defrost output off in control mode.</p> <p>Defrost termination sensor choice added on item 144.</p> <p>Separate termination sensor option added on item 141 with selection on item 147.</p> <p>Fan control selection operation on network corrected</p> <p>Fleeting alarm suppression added to all probes faulty.</p> <p>High temperature alarms can be disabled during defrost (item 127).</p> <p>Minimum defrost time added during which time defrost heater will be cycled if the termination temperature is exceeded (item 145).</p> <p>Coldstore door alarm can be selected to be critical using item 126. Critical alarm displayed on item 96.</p> <p>Thermistors allowed up to 95°C before fault indicated.</p> <p>Defrost gas valve shut whenever selected termination temperature is exceeded.</p> <p>Defrost scheduler communications failure invokes learned defrost facility when using network initiated defrost.</p> <p>Fan control hysteresis added.</p> <p>On plant fault network command the fans are stopped and the defrost termination valve "closed".</p> <p>Display pushbutton function mode selection sequence modified to increase security.</p> <p>Fans only shutdown added.</p> <p>Isolate mode cleared correctly after use.</p> <p>Optimiser functions added on items 200 - 203.</p> <p>Automatic exclusion from suction optimisation added on air sensor fault.</p> <p>Fans operation during defrost recovery in "Fans on always" mode corrected.</p> <p>Door open critical alarm selection dependent on door function selection.</p> <p>Fan operation during forced defrost corrected.</p> <p>Forced defrost alarm added.</p> <p>Communications program by executive called more frequently to reduce communications turn round time for half duplex operation.</p> <p>"Active sign off" added to reduce inter-unit polling delays.</p> <p>Network communications performance information added on items 204 - 207.</p> <p>High temperature alarm disabled when item 32 set to 0.0.</p> <p>Fan delay time added on item 109.</p> <p>Warm start flag added to network communications protocol.</p> <p>Defrost termination time increased to 59 minutes for all bitswitch settings.</p> <p>Display pushbutton test (item 121) amended.</p> <p>Defrost strategy (item 107) default changed to NONE.</p> <p>Defrost relay mode (item 75) default changed to control.</p> <p>Hardware input information on network communications corrected.</p> <p>Time termination strategy corrected.</p> <p>Temperature choice for display added for Celsius and Fahrenheit on item 122.</p> <p>Daylight saving operation added using choice on item 18.</p> <p>Maintenance unit display text improved in line with new software library features.</p> <p>NVRAM write handling amended to write to memory after 2 minute delay.</p> <p>Item 9 operation enhanced by allowing NVRAM write without delay by setting value to "1066"</p> <p>Item 203 suction group available on JTL network communications.</p>	Dec 99
v0.00.2	<p>Mark 2 pcb introduced.</p> <p>Network communication failure alarm added on item 252.</p> <p>Network defrost failure mode enhanced to give choice of learned defrost or fixed schedule.</p> <p>Learned defrost correctly activated in event of plant communications fail.</p> <p>Learned defrost schedule visible on items 261 - 272.</p> <p>Valve open logging added on items 240 and 241.</p> <p>Shutdown refrigeration operation added selected by keyswitch input. Enabled by item 138.</p> <p>Factory test date added.</p> <p>Learned defrosts problem at midnight corrected.</p> <p>Error where first learned defrost is ignored corrected.</p> <p>Learned defrost saved correctly through a power down of controller.</p> <p>Additional factory information added.</p>	

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v0.00.2	<p>Plant data information added on items 211 - 217 for use with Mark 2 optimisers and defrost scheduling.</p> <p>Broadcast "receiving" of site wide data added.</p> <p>Jnet network defrost in backup mode alarm added.</p> <p>Input test feature added on item 100.</p> <p>Defrost recovery period now lasts for full allowed duration, but when temperature is low enough (as before) dEFr is suppressed on display.</p> <p>Site number recorded.</p> <p>Circuit 0 not allowed on electric defrost data.</p> <p>Unit number range changed to 0.1 to 899.8</p> <p>Time delay added on detection of defrost scheduler fault before action to override is taken.</p> <p>Network comms initialised to prevent transmit enable on for 10 seconds after power up on Mark 2 boards.</p> <p>Item 412 added to show current defrost strategy in operation.</p> <p>Items 411 & 413 repeat items 107 & 144 for convenience.</p> <p>Temperatures added on items 421 - 425 for test purposes. Note, these temperatures are <u>NOT</u> dependant on sensor selections.</p> <p>Jnet communications level upgraded to 2.</p> <p>Changes to factory settings invokes read of factory data by network controller.</p> <p>Jnet awake enhanced.</p> <p>JTL site number broadcast.</p> <p>Hardware tests fully controllable by network communications.</p> <p>Item 214 (414) enhanced to add gas & off cycle defrosts.</p> <p>Coordinated defrost strategy added.</p> <p>Input 2 selection function added on item 138.</p> <p>Input 2 status moved from item 71 to 139.</p> <p>Invert plant alarm operation (item 66) corrected.</p> <p>Coldroom temperature alarm strategy changed to work on air off and pipe sensors as necessary when sensor faulty.</p> <p>Alarm strategy now follows control strategy.</p> <p>Coldroom temperature now displayed on item 20 separately from air on temperature on item 21.</p> <p>Site temperature humidity added on items 246-248.</p> <p>Start of time 1/1/2004. Note absolute 0 time is still interpreted as 1/1/1992.</p>	Dec 2006