

JTL SOFTWARE VARIATIONS		CP4H CP4C CP4R CP4L CP4A
VERSION	DESCRIPTION	DATE
v0.00.3	Missing items in comms table added. Gas defrost and No gas defrost text in MT swapped.	Oct 91
v0.00.4	Capacity control using size of compressors introduced. Compressor capacity added on item 2x6. First stage hold-on setpoints added on items 48,58 and 78. Compressor starts per hour limit added on item 2x9. Forced compressor steps added on items 204,205 and 207. Capacity loaded information added on items 49,59,79 and 203. High satellite pressure alarm software fault fixed. Delay between step changes reduced to 10 seconds.	Jan 92
v0.00.5	LT,HT and Satellite suction pressure default values changed to 4,25 and 2 psi respectively. HT and Satellite deadband default values changed to 5 and 2 psi respectively. Satellite suction pressure alarm default value changed to 20 psi. Minimum compressor run time set at 1 minute.	Jan 92
v0.00.6	Compressor starts per hour range extended to 4 - 20. Fan speed gain added internally but not available at maintenance unit. Drain down interface board support added on item 408.	Feb 92
v0.00.7	Heat reclaim offset added on item 68.	Feb 92
v0.00.8	Refrigerant loss input on item 173 cleared. Minimum compressor stop time added on item 208. Compressor not in use selection on item 2x5 can cancel compressor alarms. Unused pressure show dashes on LED2 display (CP4H and CP4C only). Available capacities modify the integration time constants. Available capacities made visible on items 181 - 184 and 187 - 188. Capacity increase/decrease demand states made visible on items 191,192 and 194. Minimum compressor run time reduced to 20 seconds. Heat reclaim offset (12.8C) software fault fixed.	Mar 92
v0.00.9	Text for no capacity available on items 181 - 184 and 187 - 188 changed from 255 to nonE.	Mar 92
v0.01.0	Defrost systems can be assigned to compressor groups allowing separate differential pressure control for each group using a new Group interface board.	Sep 92
v0.01.1	Pressure transducer fault switched off by transducer selection. Log lengths reduced. High suction alarm level ranges increased. Defrost inhibited text added on Maintenance Unit. Multiplexed suction pressure display shows '--' on deselected pressures.	Sep 92
v0.01.2	12 fan sequence added (CP4H only). Discharge pressure setpoint allowed down to 100 psi. Defrost relay operation can be selected to terminate at beginning or end of drain down period (item 406). Fan default set to 7. Next increase and decrease capacities show 0 when no capacity available (NONE deleted). Single stage hold on sequence modified. Fan board inputs indicated on item 396 as binary value. Date & year added on items 4 & 5. Day of week now calculated not settable. CP4R no longer available, incorporated in CP4H with display item 138. Full input and output status available on comms.	Dec 92
V0.01.3	Inverter drive added on items 330 - 341.	Feb 93

JTL SOFTWARE VARIATIONS		CP4H CP4C CP4R CP4L CP4A
VERSION	DESCRIPTION	DATE
v0.01.4	Ranges on HT allow for R134a. Item 50 allowed down to 15psi. Item 52 allowed down to 5 psi. Items 62 & 65 allowed down to 140psi. With 1 stub only in a defrost group, compressors in that group stopped during defrost. With 2 stubs only in a defrost group capacity is decreased until only 1 compressor is running during a defrost on that group. Items 191, 192 and 194 removed.	May 93
v0.01.5	Fault in HT compressor control removed.	Jul 93
v0.01.6	Items 165, 173 and 174 removed. Fan sequence allows up to 13 stages. When 13 entered an extra step occurs allowing summer coil with 0 fans. Plant failed alarm (when auto input removed) gives a "critical" compressor fault alarm. When auto input removed communications maintained to condenser fan board but fans stopped. Unload sequence modified to give fast shutdown when last stage hold on level with minimum capacity loaded. Gas dump control added for CP4C on minimum capacity for HT or LT suction pressure.	Apr 95
v0.01.7	Inverter control modified. Maximum and minimum speed control output settings added on items 342 and 343. Inverter integral term clamped when inverter running at either speed limit.	July 95
v0.01.8	Defrost outputs initialised to off when Auto input removed. Defrost inhibited info removed from MU and comms. Pressure filter time constant halved. High pressure alarm filter delays increased by factor of 4.	Feb 96
v0.01.9	Item 94 alarm indicator changed to High/Low pressure fault. Interstage valve operation introduced for type CP4A. "Force compressor off" times out 30 minutes after maintenance unit unplugged. "No gas defrost" output de energised when not in Auto	Oct 96