

The LCPL-USPR is a spare parts kit which is used to replace the following obsolete JTL products as a spare part:

**RCAL
LCAL
LCNL**

The LCPL-USPR comprises two parts:

- a) **LCPL** controller
- b) **CAB40-05** 7 to 5 pin display converter cable

Some rewiring is necessary when replacing the obsolete part with the LCPL affecting the output connections. For full details see below.

The LCPL is a universal controller for Linde (ATR) well and half glass door display cabinets with single evaporators, which provides defrost functionality of all the former products, as such it requires to be set up correctly to achieve the functionality desired. The attached user guide gives full details of programming information to set up the controller. Your attention is drawn in particular to item 137 which selects the appropriate defrost initiation method, and item 136 which selects the defrost termination method.

LCPL OUTPUT CONVERSION

FUNCTION	LCPL	LCNL (see note 1)	LCAL (see note 1)	RCAL (see note 2)
CABINET LIGHTS	1 NO 1 LN	1 NO 1 LN		
FANS	2 NO 2 LN	2 NO 2 LN	2 NO 2 LN	LD2 LN2
LIQUID SOLENOID	3 NO 3 LN	3 NO 3 LN	3 NO 3 LN	LD4 LN4
DEFROST	4 NO 4 LN 4 NC	4 NO 4 LN 4 NC	4 NO 4 LN 4 NC	LD3 LN3
PULSED EXPANSION VALVE	5 NO 5 LN			

- NOTE 1: No rewiring is necessary for LCNL or LCAL
- NOTE 2: Rewire as shown, ensure wiring to LN is rewired to LN which requires crossover. LN must be connected to the line voltage and NO/NC to the load to ensure correct EMC operation.

LCPL INPUT CONVERSION

Temperatures

No rewiring is necessary, sensor connections can be directly swapped (plugged in)

INPUTS

FUNCTION	LCPL	LCNL (see note 3)	RCAL LCAL
LIGHTING OVERRIDE	I1 C	IN1 C	
DEFROST INPUT	I2 C	IN2 C	

- NOTE 3: No rewiring is necessary for LCNL.
- NOTE 4: There are no inputs on LCAL or RCAL.

LCPL Jnet Communications Conversion

The LCPL and the original controllers are all fitted with 3 pin DIN sockets for Jnet Network connection. Thus no rewiring is necessary.

LCPL Display Connections

The display connection on the LCPL uses a 7 pin connector. To convert the 5 pin display to this connection, use the CAB40-05 cable supplied with the LCPL.

Controller Setup

To ensure compatibility when replacing the original part with an LCPL, action a factory default setting procedure (Item 9) before setting in the new data.