

The UAPN-USPR2 is a spare parts kit which is used to replace the following obsolete JTL products as a spare part:

- LCIC (for TEV control only)
- LCPN
- LCPC (for TEV control only)
- LCPT
- LCNS

The UAPN-USPR2 comprises of the following parts:

- 1 x UAPN controller
- 1 x NJ12 junction box
- 1 x CAB60-05 Network cable
- 1 x CAB98-05 Display cable
- 1 x DIN rail kit

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

The UAPN is a universal controller 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 107 which selects the appropriate defrost initiation method, and item 144 which selects the defrost termination method.

**UAPN OUTPUT CONVERSION**

FUNCTION	UAPN	LCxx
LIGHTS	2 LD 3 LN	1 NO 1 LN
FANS/PAN HEATER	4 LD 3 LN	2 NO 2 LN
TRIM HEATER	5 LD 6 LN	
DEFROST	7 LD 6 LN	4 NO 4 LN
LIQUID SOLENOID	8 LD 9 LN	3 NO 3 LN

**Note 1:** 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.

**Note 2:** Terminal 1 on the UAPN must be connected to the control supply neutral.

**Controller Setup**

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

**Applicable Documentation**

- Connections Diagram: Doc No. 03785
- Installation Information: Doc No. 03852
- Item Numbers: Doc No. 03779
- User Guide: Doc No. 04283

**INPUT CONVERSION**

**TEMPERATURES**

Rewiring is necessary, sensor connections need to be reconnected directly to the UAPN

SENSOR	UAPN	LCPN (See note 3)	LCIC, LCPC, LCPT & LCNS
AIR ON	26 25	C 1	PIN 1 PIN 2
AIR OFF	24 23	C 2	PIN 4 PIN 2
EVAPORATOR	22 21	C 3	PIN 5 PIN 2
SUCTION LINE	20 19	C 4	PIN 3 PIN 2
TERMINATION	18 17	C 5	PIN 6 PIN 2

**Note 3:** The LCPN inputs number from C1 on the right when viewed from the edge of the controller.

CONTROLLER	SENSORS SUPPORTED	
	5k	2k
UAPN	✓	
LCPN	✓	
LCIC	✓	
LCPC	✓	✓
LCPT	✓	✓
LCNS	✓	✓

The UAPN only supports 5k thermistors. Where 2k sensors are used these must be replaced.

**DIGITAL INPUTS**

**DEFROST**

LC type controllers support a defrost input from an external time clock or equivalent. UAPN DOES NOT support this function. An internal time clock and schedule is available in the UAPN to replace this function.

**LIGHTING OVERRIDE**

LC controllers support a lighting override input. This function is not available on the UAPN.

**UAPN Jnet Communications Conversion**

The UAPN and the LC controllers are fitted with different sockets for Jnet network connection. To connect the legacy network to the UAPN, the NJ12 junction boxes & CAB60-05 cable supplied in the kit are necessary. The NJ12 converts the DIN connection on the legacy network cables to the telephone style RJ8 network connectors on the CAB60, which is used to connect to the UAPN and link the NJ12s.

**Display Connections**

A converter cable type is CAB98-05 is required to convert the DIN plug on the display to an RJ45 plug. Item 129 on the maintenance unit selects the type of display.