

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

**EC**            **LCNB**  
**ECCN**       **LCGD**  
**ECRB**       **LCCN**  
**ECED**  
**ECAS**

The UAPN-USPR comprises of the following parts:

- 1 x UAPN controller
- 1 x NJ12 junction box
- 1 x CAB60-05 Network cable
- 1 x CAB66-05 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	LCNB	LCGD, LCCN	EC, ECCN, ECRB, ECAS, ECED
LIGHTS	2 LD 3 LN	1 NO 1 LN		
FANS/ PAN HEATER (See note 3)	4 LD 3 LN	2 NO 2LN	2 NO 2 LN	
TRIM HEATER	5 LD 6 LN			
DEFROST	7 LD 6 LN	4 NO 4 LN	4 NO 6 LN	3 LD 1 LN
LIQUID SOLENOID	8 LD 9 LN	3 NO 3 LN	3 NO 3 LN	4 LD 3 LN
PAN HEATER			1 NO 1 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.

**Note 3:** The UAPN supports switching output 2 function from fan to auxiliary (Pan) heater control.

**INPUT CONVERSION**

**TEMPERATURES**

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

SENSOR	UAPN	Ecxx, LCxx
AIR ON	26 25	PIN 1 PIN 2
AIR OFF	24 23	PIN 4 PIN 2
EVAPORATOR	22 21	PIN 5 PIN 2
SUCTION LINE	20 19	PIN 3 PIN 2
TERMINATION	18 17	

CONTROLLER	SENSORS SUPPORTED		
	5k	2k	2k2
UAPN	✓		
EC	✓		
ECCN	✓	✓	
ECRB	✓		✓
ECED	✓	✓	
ECAS	✓	✓	✓
LCNB	✓	✓	
LCGD	✓		
LCCN	✓	✓	

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

**DIGITAL INPUTS**

**DEFROST**

ECAS type controllers and LCNB 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**

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

**UAPN Jnet Communications Conversion**

The EC and 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 CAB66-05 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.

**Applicable Documentation**

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

**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.