

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

- LCCE
- LCCP
- LCCU
- LCIS (for TEV control only)

The UACN-USPR comprises of the following parts:

- 1 x UACN 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 UACN affecting the network connections and the output connections. For full details see below.

The UACN 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.

UACN OUTPUT CONVERSION

FUNCTION	UACN	LCCE LCCU	LCCP	LCIS
PAN HEATER	2 LD 3 LN	1 NO 1 LN	1 NO 1 LN	
FANS	4 LD 3 LN	2 NO 2 LN	2 NO 2 LN	2 NO 2 LN
SUCTION VALVE (see note 8)	5 LD 6 LN	1 NO 1 LN		
DEFROST	7 LD 6 LN	4 NO 4 LN	4 NO 4 LN	4 NO 4 LN
LIQUID SOLENOID	8 LD 9 LN	3 NO 3 LN	3 NO 3 LN	3 NO 3 LN
SUCTION VALVE / PAN HEATER (See note 7)				1 NO 1 LN
ALARM OUTPUT (See note 3)	NOT IMPLEMENTED		5 NO 5 LN	
DEFROST 2 (See note 3)	NOT IMPLEMENTED	5 NO 5 LN		

- Note 1:** Rewire as shown, ensure wiring to LN is rewired to LN 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 UACN must be connected to the control supply neutral.
- Note 3:** Some functionality on the LCCE, LCCP and LCCU products is not implemented. If this is required then contact JTL Systems.

INPUT CONVERSION

TEMPERATURES

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

SENSOR	UACN	LCCP LCCU	LCCE	LCIS
AIR ON	26 25	2 1	2 1	2 1
AIR OFF	24 23	2 4	2 4	2 4
EVAPORATOR	22 21	2 5	2 5	2 5
SUCTION LINE	20 19	2 3	2 3	2 3
TERMINATION	18 17		2 6	2 6
TERMINATION 2 (See note 3)	NOT IMPLEMENTED		2 7	

LCCE and LCCP support both 5k and 2k sensors. Where these are used they must be replaced with a 5k sensors.

DIGITAL INPUTS

FUNCTION	UACN	LCCU (See note 4)	LCCE LCCP (See note 4)	LCIS
DOOR CLOSED	14 12	I1 C	I1 C	I1 C
MAN TRAPPED	14 13			I2 C
DEFROST (See note 5)	NOT IMPLEMENTED	I2 C		I2 C
ALARM (See note 5 and note 6)	NOT IMPLEMENTED	I2 C	I2 C	
SHUTDOWN (See note 5)	NOT IMPLEMENTED	I2 C		I2 C

- Note 4:** LCCx controllers use 230 Vac inputs with a common connected to neutral DO NOT connect the existing wiring directly to UACN which uses a self excited voltage free contact. External wiring changes must be done to implement the voltage free contact input.
- Note 5:** Defrost, alarm and shutdown functions are not implemented on the UACN. In the LCCU these functions are selectable using item 138 to be on input 2. If any of these functions are required contact JTL Systems.
- Note 6:** The alarm function is not implemented in the UACN. If this function is required contact JTL Systems.
- Note 7:** The UACN provides separate outputs for PAN heater and suction valve control.
- Note 8:** The UACN suction valve output is inverted compared with the legacy products. If this function is required it will be necessary to fit a follower relay

UACN Jnet Communications Conversion

The UACN and the controllers are fitted with different sockets for Jnet network connection. To connect the legacy network to the UACN, 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 UACN and link the NJ12s.

Display Connections

A converter cable type CAB98-05 is required to convert the DIN plug on the display cable to an RJ45 socket on the UACN.

Controller Setup

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

Applicable Documentation

Connections Diagram:	Doc No. 03793
Installation Information:	Doc No. 03852
Item Numbers:	Doc No. 04018
User Guide:	Doc No. 04114