

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

- LCPN**
- LCIC (See Note 1)**
- LCPC (See Note 1, 2)**

The LAPN-USPR comprises of the following parts:

- 1 x LAPN controller
- 1 x NJ12 junction box
- 1 x CAB60-05 Network cable

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

The LAPN 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.

Note 1: The LAPN is only suitable for liquid line solenoid valve control with a mechanical (thermostatic) expansion valve and therefore cannot be used to replace, LCIC and LCPC controllers controlling pulsed expansion values.

Note 2: LAPN only works with 5k NTC thermistors. LCPC working with 2 k NTC thermistors cannot be replaced by LAPN

OUTPUT CONVERSION

The only output connection change required is when converting LCIC to LAPN. The liquid solenoid valve moves from RL3 to RL5. Take care, LN must be connected to the line voltage and NO/NC to the load to ensure correct EMC operation.

Applicable Documentation

- Connections Diagram: Doc No. 02877
- Installation Information: Doc No. 03036
- Item Numbers: Doc No. 02274
- Schematic Diagram: Doc No. 02876
- User Guide: Doc No. 02931
- Application Drawing: Doc No. 03333

INPUT CONVERSION

TEMPERATURES

Rewiring is necessary. Sensor connections need to be reconnected directly to the LAPN.

SENSOR	LAPN LCPN	LCIC DIN LCPC DIN (See Note 3)	LCIC & LCPC WITH CONVERTER BOARD (See drawing 02301)
AIR ON	CON4 - 1 CON4 - 2	PIN 1 PIN 2	1
AIR OFF	CON4 - 3 CON4 - 4	PIN 4 PIN 2	2
EVAPORATOR	CON4 - 5 CON4 - 6	PIN 5 PIN 2	3
SUCTION LINE	CON4 - 7 CON4 - 8	PIN 3 PIN 2	4
TERMINATION	CON4 - 9 CON4 - 10	PIN 6 PIN 2	5

Note 3: Where LAPN is being used to replace an LCIC and no converter is being used the DIN plug must be cut off and the temperature sensors wired directly to the LAPN.

DIGITAL INPUTS

No changes required.

LAPN Jnet Communications Conversion

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

Display Connections

No changes required.

For legacy display types LCD1-7, 10 and 12 set item 129 to 2 (Lcd1)
For new displays type LCD8 and 9 set item 129 to 3 (Lcd8)

Controller Setup

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