

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

**LAPA
SDPA**

The UBPA-USPR comprises of the following parts:

- 1 x UBPA controller
- 1 x DIN rail kit

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

The UBPA is a controller which provides defrost functionality of the LAPA and SDPA 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.

UBPA OUTPUT CONVERSION

FUNCTION	UBPA	LAPA	SDPA
LIGHTS	2 LD 3 LN	1 NO 1 LN	1 NO 1 LN
AUX HEATER/ FANS	4 LD 2 LN	2 NO 2 LN	
TRIM HEATER	5 LD 6 LN	3 NO 3 LN	
DEFROST	7 LD 6 LN	4 NO 4 LN	2 NO 2 LN
LIQUID SOLENOID	8 LD 9 LN	5 NO 5 LN	3 NO 3 LN

Note 1: Rewire as shown, ensure wiring to LN is rewired to LN. LN must be connected to the line voltage and NO to the load to ensure correct EMC operation.

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

INPUT CONVERSION

TEMPERATURES

Rewiring is necessary.

SENSOR	UBPA	LAPA	SDPA
AIR ON	26 25	C 1	C 1
AIR OFF	24 23	C 2	C 2
EVAPORATOR	22 21	C 3	C 3
SUCTION LINE	20 19	C 4	C 4
TERMINATION	18 17	C 5	C 5
AIR OFF 2 (See note 4)		C 6	C 2
AIR OFF 3 (See note 4)		C 7	C 3

Note 3: The LAPA and SDPA temperature inputs number from C1 on the right when viewed from the edge of the controller.

Note 4: The LAPA and SDPA support multiple air off sensor operations. On the SDPA Air off 2 and 3 can be selected to use the evaporator and suction line temperature inputs. The UBPA DOES NOT support the multiple air off function.

DIGITAL INPUTS

Note 5: The LAPA and SDPA controllers support a defrost input from an external time clock or equivalent. UBPA DOES NOT support this function.

UBPA Jnet Communications Conversion

There is no change.

Display Connections

There is no change.

Controller Setup

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

Applicable Documentation

- UBPA Connections Diagram: Doc No. 03788
- UBPA Installation Information: Doc No. 03852
- UBPA Item Numbers: Doc No. 05341
- UBPA User Guide: Doc No. 05343

- LAPA Connections Diagram: Doc No. 03219
- SDPA Connections Diagram: Doc No. 03222