



# P-SERIES

Air Conditioners

**PVA-A12, 18, 24, 30, 36, 42AA\***

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SERVICE PARTS MANUAL

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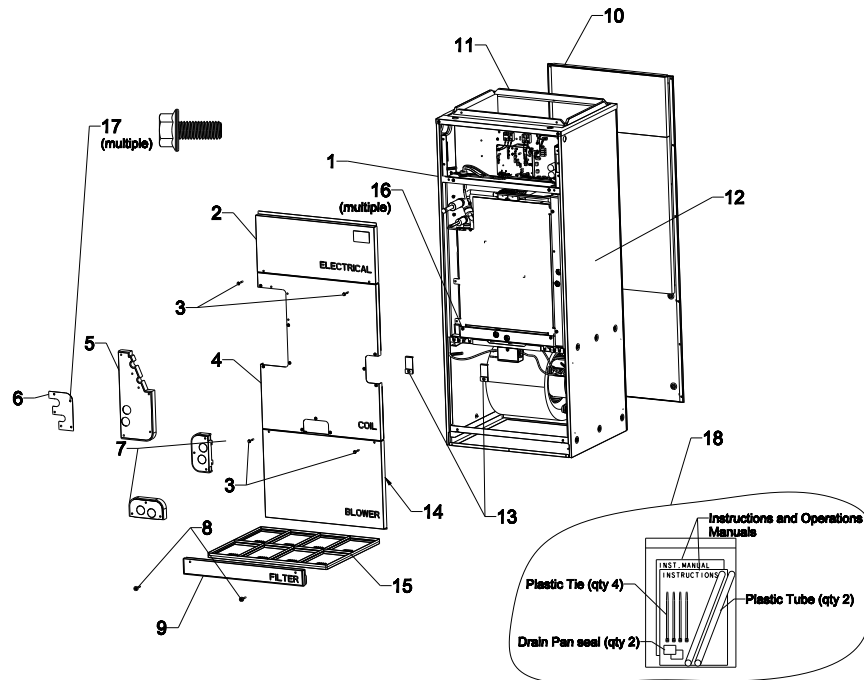
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# 1. EXTERNAL PARTS

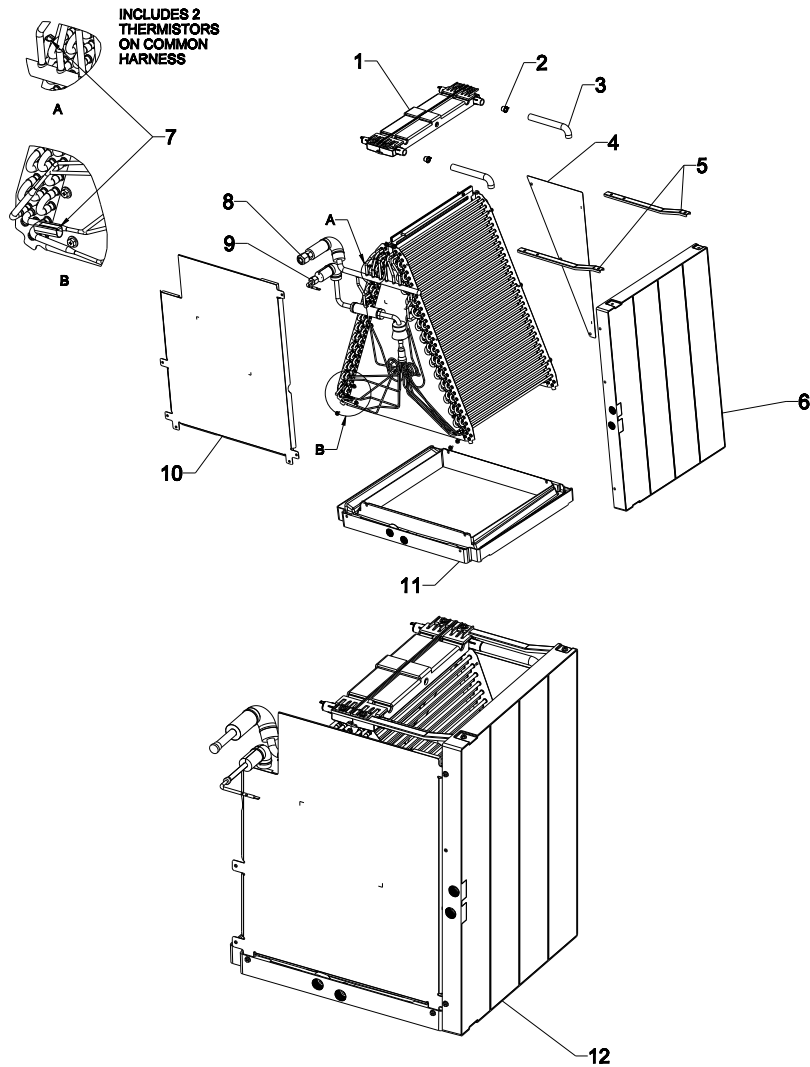


| No. | Service Part No. | Part Name                         | Symbol in<br>Wiring<br>Diagram | Quantity per unit |       |       |       |       |       | Remarks           |
|-----|------------------|-----------------------------------|--------------------------------|-------------------|-------|-------|-------|-------|-------|-------------------|
|     |                  |                                   |                                | PVA-A             |       |       |       |       |       |                   |
|     |                  |                                   |                                | 12AA*             | 18AA* | 24AA* | 30AA* | 36AA* | 42AA* |                   |
| 1   | U41 B03 641      | CABINET LEFT S                    | CN20                           | 1                 | 1     |       |       |       |       | BLACK ZAM*        |
|     | U41 B02 641      | CABINET LEFT M                    |                                |                   |       | 1     | 1     |       |       | BLACK ZAM*        |
|     | U41 B01 641      | CABINET LEFT L                    |                                |                   |       |       |       | 1     | 1     | BLACK ZAM*        |
| 2   | U41 B01 638      | FRONT PANEL ELECTRICAL S          |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 638      | FRONT PANEL ELECTRICAL M          |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B03 638      | FRONT PANEL ELECTRICAL L          |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 3   | U41 002 087      | SCREW M5X40                       |                                | 4                 | 4     | 4     | 4     | 4     | 4     | BLACK ZAM         |
| 4   | U41 B01 639      | FRONT PANEL HEX S                 |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 639      | FRONT PANEL HEX M                 |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B03 639      | FRONT PANEL HEX L                 |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 5   | U41 B01 635      | PIPE/DRAIN PANEL S                |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 635      | PIPE/DRAIN PANEL M                |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B03 635      | PIPE/DRAIN PANEL L                |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 6   | U41 B04 635      | PIPE PANEL                        |                                | 1                 | 1     | 1     | 1     | 1     | 1     | BLACK ZAM         |
| 7   | U41 B05 635      | DRAIN PANEL                       |                                | 2                 | 2     | 2     | 2     | 2     | 2     | BLACK ZAM         |
| 8   | U41 001 087      | PLASTIC THUMBSCREW                |                                | 2                 | 2     | 2     | 2     | 2     | 2     | M5X35             |
| 9   | U41 B01 636      | FRONT PANEL FILTER S              |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 636      | FRONT PANEL FILTER M              |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B03 636      | FRONT PANEL FILTER L              |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 10  | U41 B03 640      | CABINET BACK S                    |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 640      | CABINET BACK M                    |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B01 640      | CABINET BACK L                    |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 11  | U41 B03 643      | TOP PANEL S                       |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 643      | TOP PANEL M                       |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B01 643      | TOP PANEL L                       |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 12  | U41 B03 642      | CABINET RIGHT S                   | CNMF                           | 1                 | 1     |       |       |       |       | BLACK ZAM**       |
|     | U41 B02 642      | CABINET RIGHT M                   |                                |                   |       | 1     | 1     |       |       | BLACK ZAM**       |
|     | U41 B01 642      | CABINET RIGHT L                   |                                |                   |       |       |       | 1     | 1     | BLACK ZAM**       |
| 13  | U41 001 086      | COIL BRACKET                      |                                | 1                 | 1     | 2     | 2     | 2     | 2     |                   |
| 14  | U41 B01 637      | FRONT PANEL BLOWER S              |                                | 1                 | 1     |       |       |       |       | BLACK ZAM         |
|     | U41 B02 637      | FRONT PANEL BLOWER M              |                                |                   |       | 1     | 1     |       |       | BLACK ZAM         |
|     | U41 B03 637      | FRONT PANEL BLOWER L              |                                |                   |       |       |       | 1     | 1     | BLACK ZAM         |
| 15  | U41 004 500      | FILTER-PLASTIC S                  |                                | 1                 | 1     |       |       |       |       | 16X20             |
|     | U41 005 500      | FILTER-PLASTIC M                  |                                |                   |       | 1     | 1     |       |       | 20X20             |
|     | U41 006 500      | FILTER-PLASTIC L                  |                                |                   |       |       |       | 1     | 1     | 24X20             |
| 16  | U41 008 087      | SCREW H 5X10 KNURLED<br>(10 pack) |                                | 46                | 46    | 46    | 46    | 46    | 46    | pack of 10 screws |
| 17  | U41 009 087      | SCREW M5X12 BLACK<br>(10 pack)    |                                | 52                | 52    | 52    | 52    | 52    | 52    | pack of 10 screws |
| 18  | U41 008 818      | ACCESSORY BAG                     |                                | 1                 | 1     | 1     | 1     | 1     | 1     |                   |

\* The return air thermistor adapter harness is pre-installed in the Cabinet Left panel. See Blower Parts section for Thermistor. See Control Box Parts for adapter harness kit.

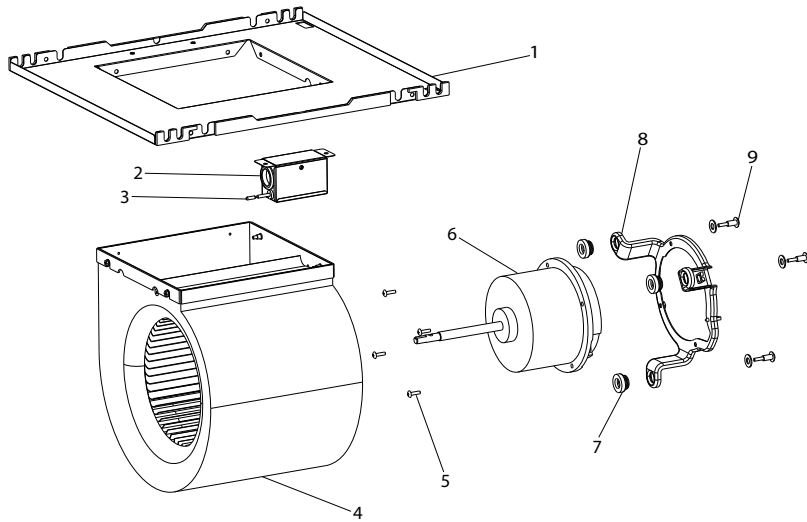
\*\* The motor harness is pre-installed in the Cabinet Right panel.

## 2. HEX ASSEMBLY PARTS



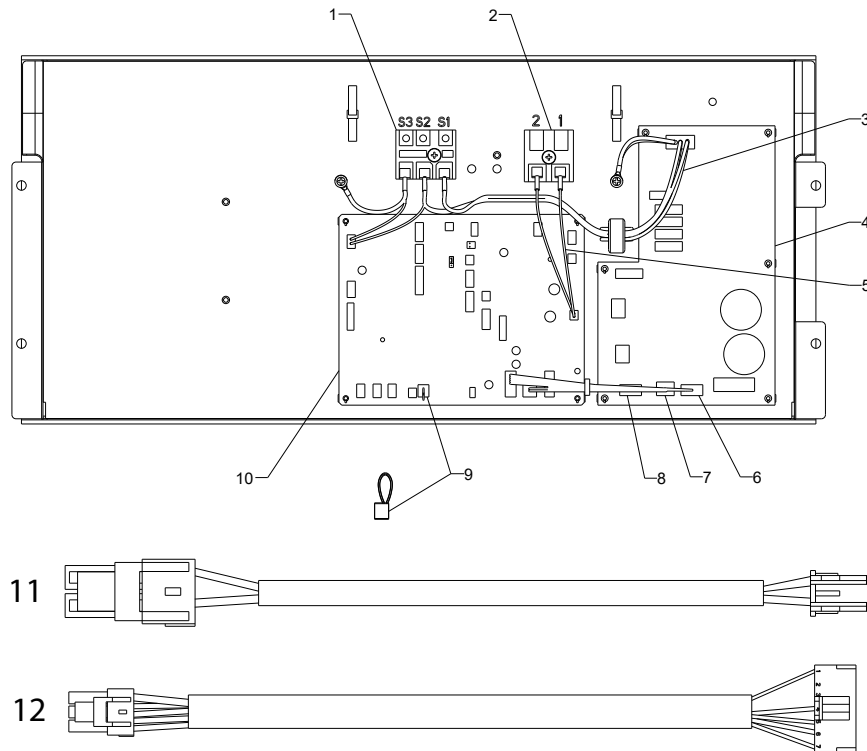
| No. | Service Part No. | Part Name                                 | Symbol in<br>Wiring<br>Diagram | Quantity per unit |       |       |       |       |       | Remarks                |
|-----|------------------|-------------------------------------------|--------------------------------|-------------------|-------|-------|-------|-------|-------|------------------------|
|     |                  |                                           |                                | PVA-A             |       |       |       |       |       |                        |
|     |                  |                                           |                                | 12AA*             | 18AA* | 24AA* | 30AA* | 36AA* | 42AA* |                        |
| 1   | U41 012 529      | DRAIN PAN ASSY TOP                        |                                | 2                 | 2     | 2     | 2     | 2     | 2     |                        |
| 2   | U41 002 558      | PLUG-TOP DRAIN PAN                        |                                | 4                 | 4     | 4     | 4     | 4     | 4     |                        |
| 3   | U41 001 525      | HOSE-TOP DRAIN PAN                        |                                | 2                 | 2     | 2     | 2     | 2     | 2     |                        |
| 4   | U41 001 668      | PLATE GUIDE REAR S                        |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 002 668      | PLATE GUIDE REAR M                        |                                |                   |       | 1     | 1     |       |       |                        |
|     | U41 003 668      | PLATE GUIDE REAR L                        |                                |                   |       |       |       | 1     | 1     |                        |
| 5   | U41 001 662      | SIDE PAN BRACKET S                        |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 002 662      | SIDE PAN BRACKET M                        |                                |                   |       | 2     | 2     |       |       |                        |
|     | U41 003 662      | SIDE PAN BRACKET L                        |                                |                   |       |       |       | 2     | 2     |                        |
| 6   | U41 009 529      | DRAIN PAN ASSY SIDE S                     |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 010 529      | DRAIN PAN ASSY SIDE M                     |                                |                   |       | 1     | 1     |       |       |                        |
|     | U41 011 529      | DRAIN PAN ASSY SIDE L                     |                                |                   |       |       |       | 1     | 1     |                        |
| 7   | U41 003 200      | THERMISTOR LIQUID/GAS PIPE<br>SENSOR ASSY | CN44                           | 1                 | 1     |       |       |       |       | TH2/TH5                |
|     | U41 004 200      | THERMISTOR LIQUID/GAS PIPE<br>SENSOR ASSY |                                |                   |       | 1     | 1     |       |       |                        |
|     | U41 005 200      | THERMISTOR LIQUID/GAS PIPE<br>SENSOR ASSY |                                |                   |       |       |       | 1     | 1     |                        |
| 8   | U41 003 122      | NUT FLARE 1/2F                            |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 001 122      | NUT FLARE 5/8                             |                                |                   |       | 1     | 1     | 1     | 1     |                        |
| 9   | U41 004 122      | NUT FLARE 1/4                             |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 002 122      | NUT FLARE 3/8                             |                                |                   |       | 1     | 1     | 1     | 1     |                        |
| 10  | U41 004 668      | PLATE GUIDE FRONT S                       |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 005 668      | PLATE GUIDE FRONT M                       |                                |                   |       | 1     | 1     |       |       |                        |
|     | U41 006 668      | PLATE GUIDE FRONT L                       |                                |                   |       |       |       | 1     | 1     |                        |
| 11  | U41 006 529      | DRAIN PAN ASSY LOWER S                    |                                | 1                 | 1     |       |       |       |       |                        |
|     | U41 007 529      | DRAIN PAN ASSY LOWER M                    |                                |                   |       | 1     | 1     |       |       |                        |
|     | U41 008 529      | DRAIN PAN ASSY LOWER L                    |                                |                   |       |       |       | 1     | 1     |                        |
| 12  | U41 018 480      | HEAT EXCHANGER A12                        |                                | 1                 | 1     |       |       |       |       | Includes all hex parts |
|     | U41 016 480      | HEAT EXCHANGER A30                        |                                |                   |       | 1     | 1     |       |       | Includes all hex parts |
|     | U41 017 480      | HEAT EXCHANGER A42                        |                                |                   |       |       |       | 1     | 1     | Includes all hex parts |

### 3. BLOWER PARTS



| No. | Service Part No. | Part Name              | Symbol in Wiring Diagram | Quantity per unit |       |       |       |       |       | Remarks                             |
|-----|------------------|------------------------|--------------------------|-------------------|-------|-------|-------|-------|-------|-------------------------------------|
|     |                  |                        |                          | PVA-A             |       |       |       |       |       |                                     |
|     |                  |                        |                          | 12AA*             | 18AA* | 24AA* | 30AA* | 36AA* | 42AA* |                                     |
| 1   | U41 015 638      | FRAME FAN S            |                          | 1                 | 1     |       |       |       |       |                                     |
|     | U41 016 638      | FRAME FAN M            |                          |                   |       | 1     | 1     |       |       |                                     |
|     | U41 017 638      | FRAME FAN L            |                          |                   |       |       |       | 1     | 1     |                                     |
| 2   | U41 002 104      | BUSHING SRB-R-2        |                          | 1                 | 1     | 1     | 1     | 1     | 1     |                                     |
| 3   | U41 001 287      | THERMISTOR RETURN AIR  | CN20                     | 1                 | 1     | 1     | 1     | 1     | 1     | TH1                                 |
| 4   | U41 008 129      | FAN CASE S             |                          | 1                 | 1     |       |       |       |       |                                     |
|     | U41 009 129      | FAN CASE M             |                          |                   |       | 1     | 1     |       |       |                                     |
|     | U41 010 129      | FAN CASE L             |                          |                   |       |       |       | 1     | 1     |                                     |
| 5   | U41 005 087      | BOLT MOTOR (S, M)      |                          | 4                 | 4     | 4     | 4     |       |       |                                     |
|     | U41 006 087      | BOLT MOTOR (L)         |                          |                   |       |       |       | 4     | 4     |                                     |
| 6   | U41 003 128      | BLOWER MOTOR S         |                          | 1                 | 1     |       |       |       |       |                                     |
|     | U41 004 128      | BLOWER MOTOR M         |                          |                   |       | 1     | 1     |       |       |                                     |
|     | U41 005 128      | BLOWER MOTOR L         |                          |                   |       |       |       | 1     | 1     |                                     |
| 7   | U41 103 104      | RUBBER GROMMET         |                          |                   |       |       |       | 3     | 3     |                                     |
| 8   | U41 001 130      | MOTOR BRACKET S M      |                          | 1                 | 1     | 1     | 1     |       |       |                                     |
|     | U41 002 130      | MOTOR BRACKET L        |                          |                   |       |       |       | 1     | 1     |                                     |
| 9   | U41 003 130      | MOTOR BRACKET BOLT KIT |                          | 3                 | 3     | 3     | 3     |       |       |                                     |
|     | U41 003 087      | MOTOR MOUNT BOLD KIT   |                          |                   |       |       |       | 3     | 3     | Includes washer. Sold as pack of 4. |

## 4. CONTROL BOX PARTS



| No. | Service Part No. | Part Name                                    | Symbol in Wiring Diagram | Quantity per unit |       |       |       |       |       | Remarks                                                                                                                                                                           |
|-----|------------------|----------------------------------------------|--------------------------|-------------------|-------|-------|-------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                  |                                              |                          | PVA-A             |       |       |       |       |       |                                                                                                                                                                                   |
|     |                  |                                              |                          | 12AA*             | 18AA* | 24AA* | 30AA* | 36AA* | 42AA* |                                                                                                                                                                                   |
| 1   | U41 004 246      | TERMINAL BLOCK ASSY                          | TB4                      | 1                 | 1     | 1     | 1     | 1     | 1     | S1, S2, S3                                                                                                                                                                        |
| 2   | U41 003 246      | TERMINAL BLOCK                               | TB15                     | 1                 | 1     | 1     | 1     | 1     | 1     | 1, 2                                                                                                                                                                              |
| 3   | U41 011 392      | LEAD WIRE ASSY CND (S)                       | CND &                    | 1                 | 1     | 1     | 1     | 1     |       | to Terminal Block<br>S1, S2, S3                                                                                                                                                   |
|     | U41 012 392      | LEAD WIRE ASSY CND (L)                       | CN3C                     |                   |       |       |       | 1     | 1     |                                                                                                                                                                                   |
| 4   | U41 005 280      | POWER BOARD                                  |                          | 1                 | 1     |       |       |       |       |                                                                                                                                                                                   |
|     |                  |                                              |                          |                   |       | 1     | 1     |       |       |                                                                                                                                                                                   |
|     | U41 006 280      |                                              |                          |                   |       |       |       |       |       |                                                                                                                                                                                   |
|     | U41 006 281      |                                              |                          |                   |       |       |       | 1     | 1     |                                                                                                                                                                                   |
| 5   | U41 013 392      | LEAD WIRE ASSY CN22                          | CN22                     | 1                 | 1     | 1     | 1     | 1     | 1     | to Terminal Block<br>1, 2                                                                                                                                                         |
| 6   | U71 019 392      | LEAD WIRE ASSY XA                            | CNXA2                    | 1                 | 1     | 1     | 1     | 1     | 1     | to CNXA1                                                                                                                                                                          |
| 7   | U71 020 392      | LEAD WIRE ASSY XC                            | CNXC2                    | 1                 | 1     | 1     | 1     | 1     | 1     | to CNXC1                                                                                                                                                                          |
| 8   | U41 003 392      | LEAD WIRE ASSY XB                            | CNXB2                    | 1                 | 1     | 1     | 1     | 1     | 1     | to CNXB1                                                                                                                                                                          |
| 9   | U41 001 G08      | JUMPER CONNECTOR                             | CN4F                     | 1                 | 1     | 1     | 1     | 1     | 1     |                                                                                                                                                                                   |
| 10  | U41 009 280      | CONTROL BOARD                                |                          | 1                 | 1     | 1     | 1     | 1     | 1     | Includes Terminal<br>Block (item No. 2)                                                                                                                                           |
| 11  | U61 002 220      | RETURN AIR THERMISTOR ADAPTER HARNESS<br>KIT | CN20                     | 1                 | 1     | 1     | 1     | 1     | 1     | Does not include<br>thermistor assembly.<br>See HEX Parts for<br>THERMISTOR RETURN<br>AIR<br><br>(Harness also pre-<br>installed in Cabinet Left<br>Panel. See External<br>parts) |
| 12  | U41 026 392      | MOTOR POWER HARNESS KIT                      | CNMF                     | 1                 | 1     | 1     | 1     | 1     | 1     | (Harness also pre-<br>installed in Cabinet<br>Right Panel. See<br>External parts)                                                                                                 |

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This product is designed and intended for use in the residential, commercial and light-industrial environment.

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