

**PTC173G Package Terminal Air Conditioner**

PTC173G00AXXXBA  
PTC173G00AXXXBB  
PTC173G00DHXXBB  
PTC173G00HQXXBA  
PTC173G00HQXXBB  
PTC173G00HXXBA  
PTC173G00HXXBB  
PTC173G25AXXXBB  
PTC173G35AXXXBA  
PTC173G35AXXXBB  
PTC173G35CXXBA  
PTC173G35CXXBB  
PTC173G35VXXBB  
PTC173G50AXXXBA  
PTC173G50AXXXBB  
PTC173G50QXXBA  
PTC173G50QXXBB  
PTC173G50RXXBB



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This manual is to be used by qualified technicians only.

This manual replaces RP-A5016K.

## Important Information

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*Views shown are for parts illustrations only, not servicing procedures*

#### Text Codes:

AR - As Required

NA - Not Available

NS - Not Shown

00000000 - See Note

QTY - Quantity    Example (QTY 3) (If Quantity not shown, Quantity = 1)

M - Model        Example (M1) (If M Code not shown, then part is used on all Models)

#### Expanded Model Nomenclature:

Example

M1 - Model#1

M2 - Model#2

M3 - Model#3

Goodman Company, L.P. is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Goodman Company, L.P. also recommends contacting an authorized technician and using authorized factory parts.

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For assistance within the U.S.A. contact:

Homeowner Support

Goodman Company, L.P.

19001 Kermier Road

Waller, Texas 77484

877-254-4729-Telephone

713-863-2382-Facsimile

For assistance outside the U.S.A. contact:

International Division

Goodman Company, L.P.

19001 Kermier Road

Waller, Texas 77484

713-861-2500-Telephone

713-863-2382-Facsimile

# Functional Parts

## Part

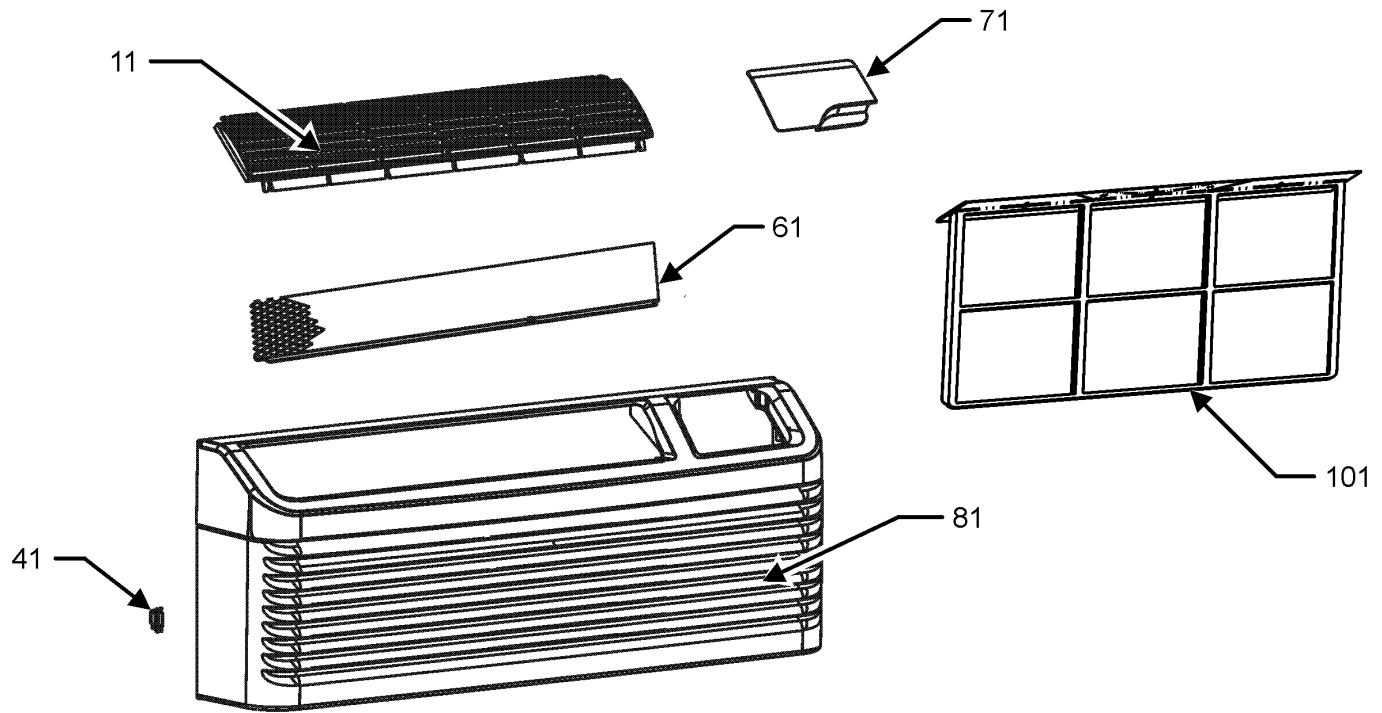
## No:

## Description:

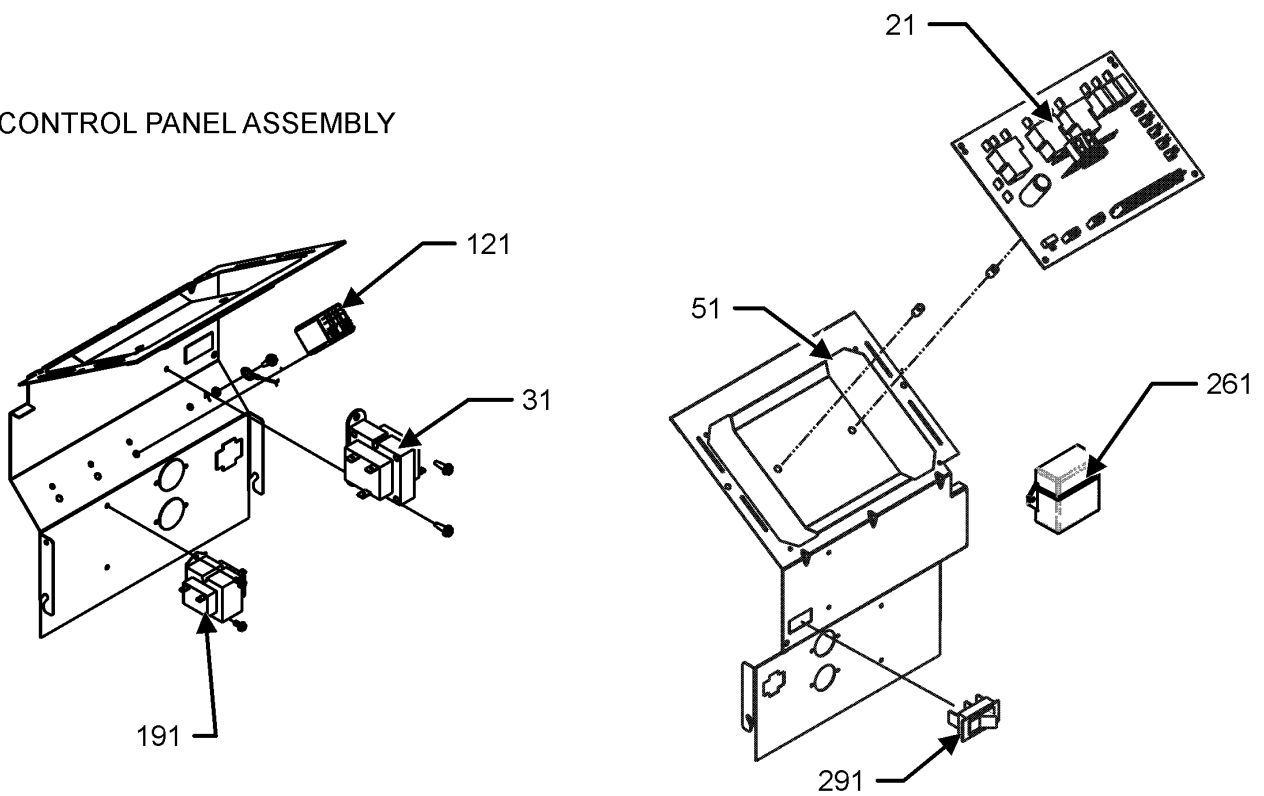
|                |                                                                                     | Expanded Model Nomenclature |
|----------------|-------------------------------------------------------------------------------------|-----------------------------|
| CAP400000440CS | CAP, 40 MFD/440V/SINGLE RD                                                          | M1 - PTC173G00AXXXBA        |
| CAP020000440RP | CAPACITOR                                                                           | M2 - PTC173G00AXXXBB        |
| 50A422Q        | COMPRESSOR, RECHI                                                                   | M3 - PTC173G00DHXXBB        |
| RSKP0012       | CONTROL BOARD M70                                                                   | M4 - PTC173G00HQQXBA        |
| RSKP0015       | CONTROL PANEL COVER AND MEMBRANE                                                    | M5 - PTC173G00HQQXBB        |
| 0130P00112     | CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8)                              | M6 - PTC173G00HXXBA         |
| 0130P00115     | CORD,250VAC,20A (LCD) (M9, M10, M11, M12, M13)                                      | M7 - PTC173G00HXXBB         |
| 0130P00118     | CORD,250VAC,30A (LCD) (M14, M15, M16, M17, M18)                                     | M8 - PTC173G25AXXXBB        |
| 0131P00036     | FAN MOTOR, INDOOR                                                                   | M9 - PTC173G35AXXXBA        |
| 0131P00030     | FAN MOTOR, OUTDOOR DC                                                               | M10 - PTC173G35AXXXBB       |
| 0161P00055     | FAN, CONDENSER                                                                      | M11 - PTC173G35CXXBA        |
| 0130P00133     | HUMIDITY SENSOR (M3, M13)                                                           | M12 - PTC173G35CXXBB        |
| 0130P00137     | MOTOR (M3, M13)                                                                     | M13 - PTC173G35VXXBB        |
| 60343611       | OVERLOAD PROTECTOR-RECHI                                                            | M14 - PTC173G50AXXXBA       |
| PCBCP147       | PCB, CONTROL, D70 (M3, M13)                                                         | M15 - PTC173G50AXXXBB       |
| 0130M00181     | SPDT RELAY (M3, M4, M5, M6, M7)                                                     | M16 - PTC173G50QXXBA        |
| 0130M00239     | SWITCH, HIGH PRESS                                                                  | M17 - PTC173G50QXXBB        |
| 802007090      | TERM BOARD                                                                          | M18 - PTC173G50RXXBB        |
| 0130P00077     | THERMISTOR (M18)                                                                    |                             |
| 0130P00144     | THERMISTOR                                                                          |                             |
| 0130P00142     | THERMISTOR                                                                          |                             |
| 0130P00094     | THERMISTOR (M18)                                                                    |                             |
| 0130P00134     | THERMISTOR - DISCHARGE                                                              |                             |
| 0130P00098     | THERMISTOR - OUTDOOR AMBIENT (M18)                                                  |                             |
| 0130M00341     | TRANSFORMER 20VA 230V (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18) |                             |
| 0130M00149     | TRANSFORMER 240V/208V TO 24V, 40VA (M3, M4, M5, M6, M7, M13)                        |                             |
| 0130M00149     | TRANSFORMER 240V/208V TO 24V, 40VA (M3, M4, M5, M6, M7, M13)                        |                             |
| PCBEP101       | VARIABLE SPEED TERMINAL BOARD                                                       |                             |
| 0150P00004     | WHEEL, BLOWER                                                                       |                             |

# Front Panel and Control Panel Assembly

## FRONT PANEL ASSEMBLY



## CONTROL PANEL ASSEMBLY



# Front Panel and Control Panel Assembly

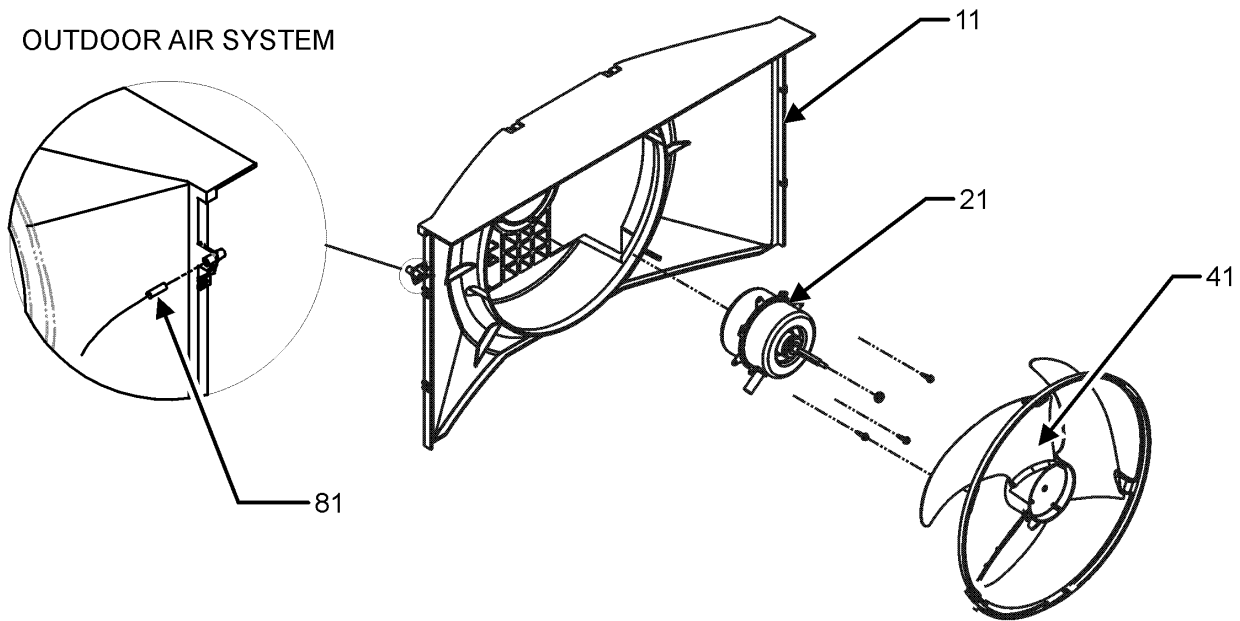
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|----------------------|--------------|----------------------|------------------------------------------------------------------------------------------|
| <b>Image 1:</b>      |              |                      |                                                                                          |
| 11                   | 0161P00048   |                      | FRONT-DICHARGE LOUVERS (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)     |
| 21                   | RSKP0012     |                      | CONTROL BOARD M70                                                                        |
| 31                   | 0130M00341   |                      | TRANSFORMER 20VA 230V (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)      |
| 31                   | 0130M00149   |                      | TRANSFORMER 240V/208V TO 24V, 40VA (M3, M4, M5, M6, M7, M13)                             |
| 41                   | 0163P00025   |                      | CLIP (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)                       |
| 51                   | 0121P00130   |                      | PANEL, CONTROL                                                                           |
| 61                   | 0121P00194BL |                      | SCREEN, DISCHARGE, PAINTED (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18) |
| 71                   | 0261P00003   |                      | DOOR ASSY -AMANA- (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)          |
| 81                   | 0261P00011   |                      | FRONT ASSY (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)                 |
| 101                  | 0161P00035   |                      | FILTER, RACK (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18)               |
| 121                  | 0130M00181   |                      | SPDT RELAY (M3, M4, M5, M6, M7)                                                          |
| 191                  | 0130M00149   |                      | TRANSFORMER 240V/208V TO 24V, 40VA (M3, M4, M5, M6, M7, M13)                             |
| 261                  | 0130P00104   |                      | ANTENNA (M18)                                                                            |
| 291                  | B1337701     |                      | PADDLE SWITCH (M3, M13)                                                                  |
| NS                   | PCBCP147     |                      | PCB, CONTROL, D70 (M3, M13)                                                              |

## Expanded Model Nomenclature

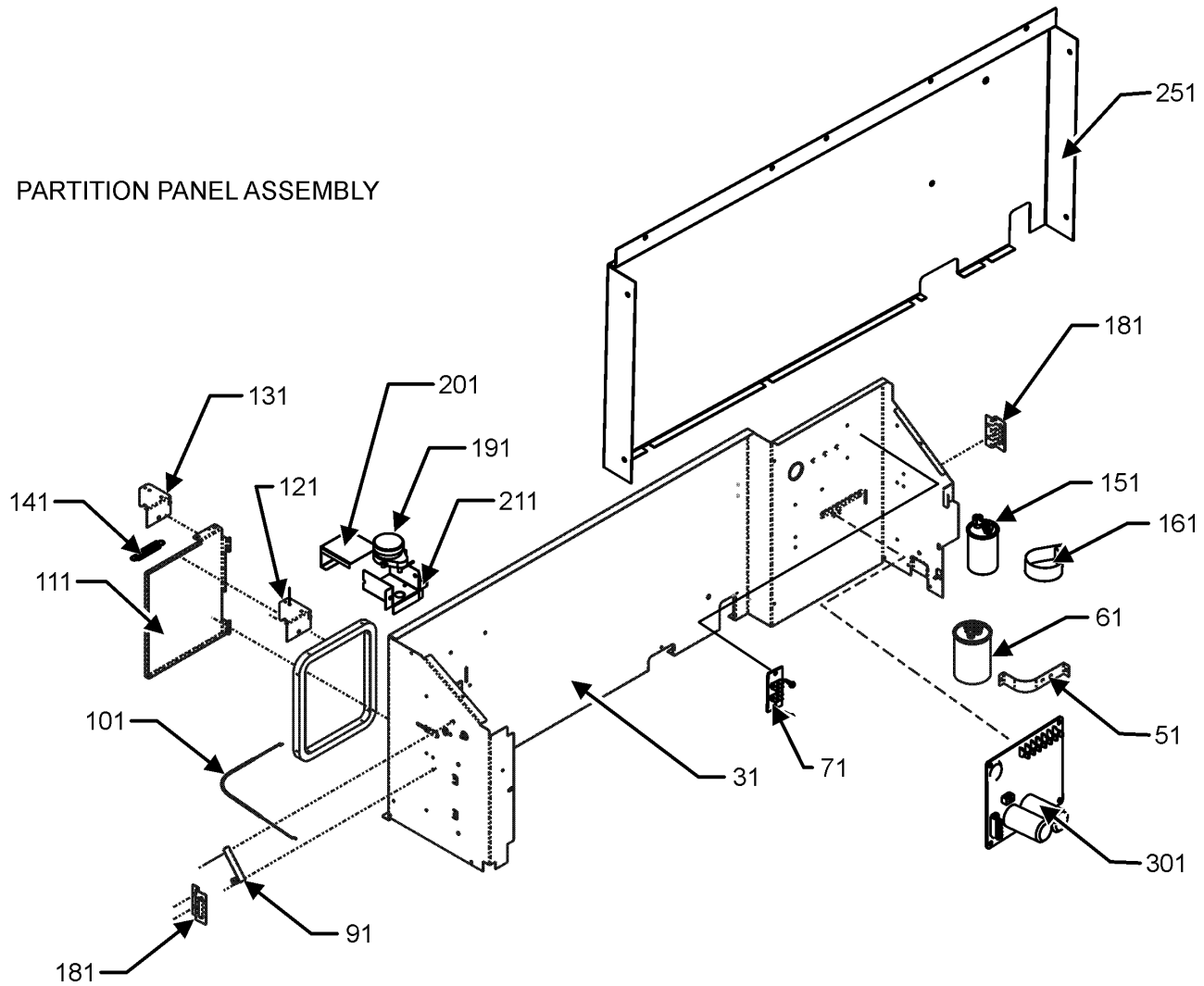
M1 - PTC173G00AXXXBA  
 M2 - PTC173G00AXXXBB  
 M3 - PTC173G00DHXXBB  
 M4 - PTC173G00HQXXBA  
 M5 - PTC173G00HQXXBB  
 M6 - PTC173G00HXXXBA  
 M7 - PTC173G00HXXXBB  
 M8 - PTC173G25AXXXBB  
 M9 - PTC173G35AXXXBA  
 M10 - PTC173G35AXXXBB  
 M11 - PTC173G35CXXXBA  
 M12 - PTC173G35CXXXBB  
 M13 - PTC173G35VXXXBB  
 M14 - PTC173G50AXXXBA  
 M15 - PTC173G50AXXXBB  
 M16 - PTC173G50QXXXBA  
 M17 - PTC173G50QXXXBB  
 M18 - PTC173G50RXXXBB

# Outdoor Air and Partition Panel Assembly

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY



# Outdoor Air and Partition Panel Assembly

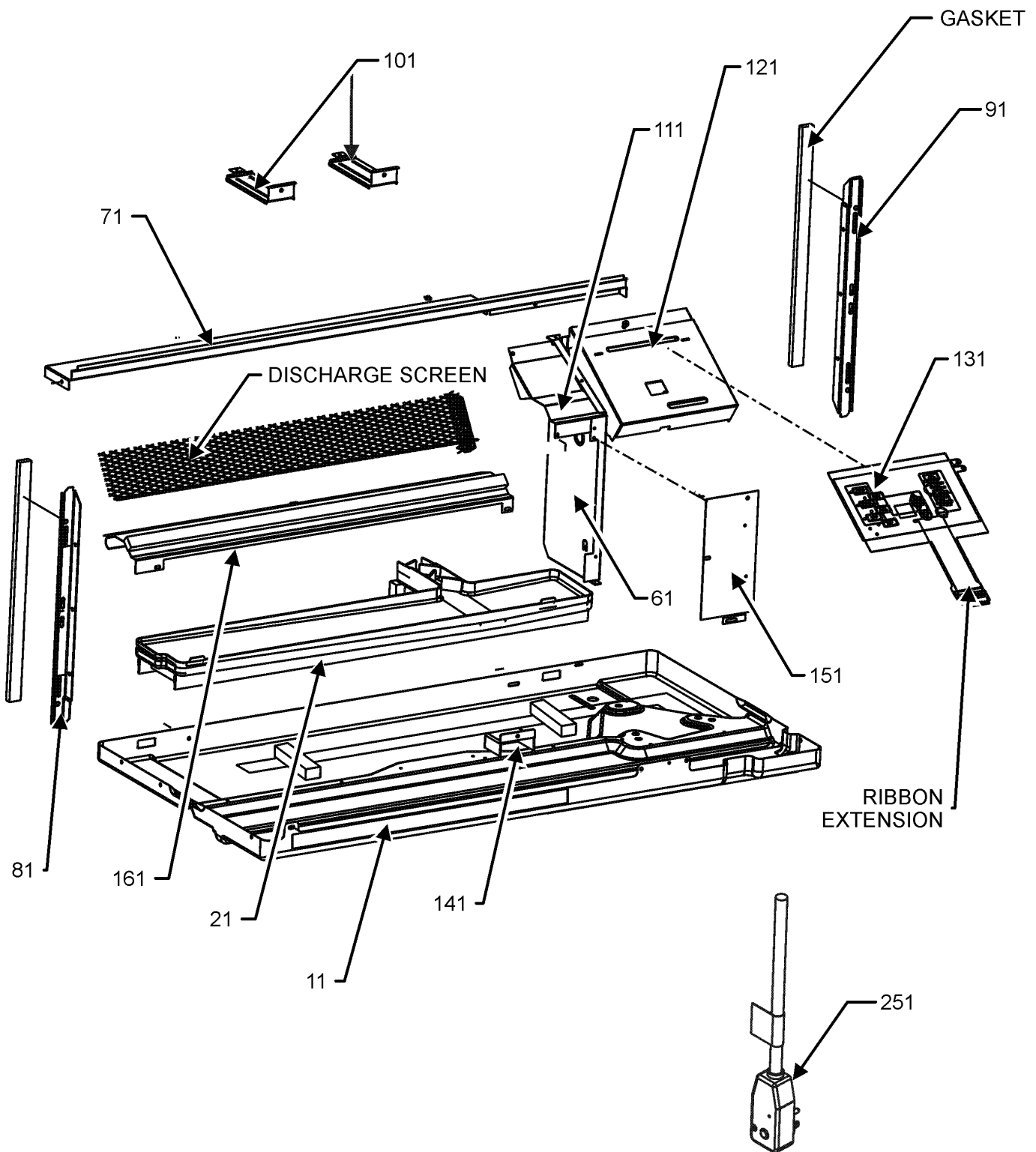
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|----------------------|----------------|---------------------------------------------------------------------------------------|--------------|
| <b>Image 1:</b>      |                |                                                                                       |              |
| 11                   | 0161P00053     | SHROUD, CONDENSER                                                                     |              |
| 21                   | 0131P00030     | FAN MOTOR, OUTDOOR DC                                                                 |              |
| 31                   | 0121P00093     | PANEL-PARTITION (M4, M5, M16, M17)                                                    |              |
| 31                   | 0121P00108NG   | PANEL-PARTITION (M1, M2, M3, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M18)       |              |
| 41                   | 0161P00055     | FAN, CONDENSER                                                                        |              |
| 51                   | C6300502       | CAPACITOR STRAP                                                                       |              |
| 61                   | CAP020000440RP | CAPACITOR                                                                             |              |
| 71                   | 802007090      | TERM BOARD                                                                            |              |
| 81                   | 0130P00098     | THERMISTOR - OUTDOOR AMBIENT (M18)                                                    |              |
| 91                   | 11046302       | LEVER ARM (M1, M2, M6, M7, M8, M9, M10, M11, M12, M14, M15, M18)                      |              |
| 101                  | 0163P00019     | CABLE (M1, M2, M6, M7, M8, M9, M10, M11, M12, M14, M15, M18)                          |              |
| 111                  | 0121P00177NG   | DOOR - PNT VENT PTC (M3, M13)                                                         |              |
| 121                  | 0121P00079     | BRACKET, VENT DOOR (M3, M13)                                                          |              |
| 131                  | 0121P00072NG   | BRACKET, VENT DOOR (M1, M2, M6, M7, M8, M9, M10, M11, M12, M14, M15, M18)             |              |
| 141                  | 11166401       | EXTENSION SPRING (M3, M13)                                                            |              |
| 151                  | CAP400000440CS | CAP, 40 MFD/440V/SINGLE RD                                                            |              |
| 161                  | 0163P00029     | CAPACITOR CLAMP                                                                       |              |
| 181                  | 11191703       | PARTITION PANEL BRACKET (M1, M2, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18) |              |
| 191                  | 0130P00137     | MOTOR (M3, M13)                                                                       |              |
| 201                  | 11166201       | POWER VENT COVER BRACKET (M3, M13)                                                    |              |
| 211                  | 11166101       | POWER VENT MOTOR BRACKET (M3, M13)                                                    |              |
| 251                  | 0121P00091     | PANEL-AUXILLIARY (M4, M5, M16, M17)                                                   |              |
| 301                  | PCBEP101       | VARIABLE SPEED TERMINAL BOARD                                                         |              |
| NS                   | 0130P00133     | HUMIDITY SENSOR (M3, M13)                                                             |              |

## Expanded Model Nomenclature

|                       |
|-----------------------|
| M1 - PTC173G00AXXXBA  |
| M2 - PTC173G00AXXXBB  |
| M3 - PTC173G00DHXXBB  |
| M4 - PTC173G00HQXXBA  |
| M5 - PTC173G00HQXXBB  |
| M6 - PTC173G00HXXXBA  |
| M7 - PTC173G00HXXXBB  |
| M8 - PTC173G25AXXXBB  |
| M9 - PTC173G35AXXXBA  |
| M10 - PTC173G35AXXXBB |
| M11 - PTC173G35CXXXBA |
| M12 - PTC173G35CXXXBB |
| M13 - PTC173G35VXXXBB |
| M14 - PTC173G50AXXXBA |
| M15 - PTC173G50AXXXBB |
| M16 - PTC173G50QXXXBA |
| M17 - PTC173G50QXXXBB |
| M18 - PTC173G50RXXXBB |

# Base Pan Assembly

## BASE PAN ASSEMBLY





# Base Pan Assembly

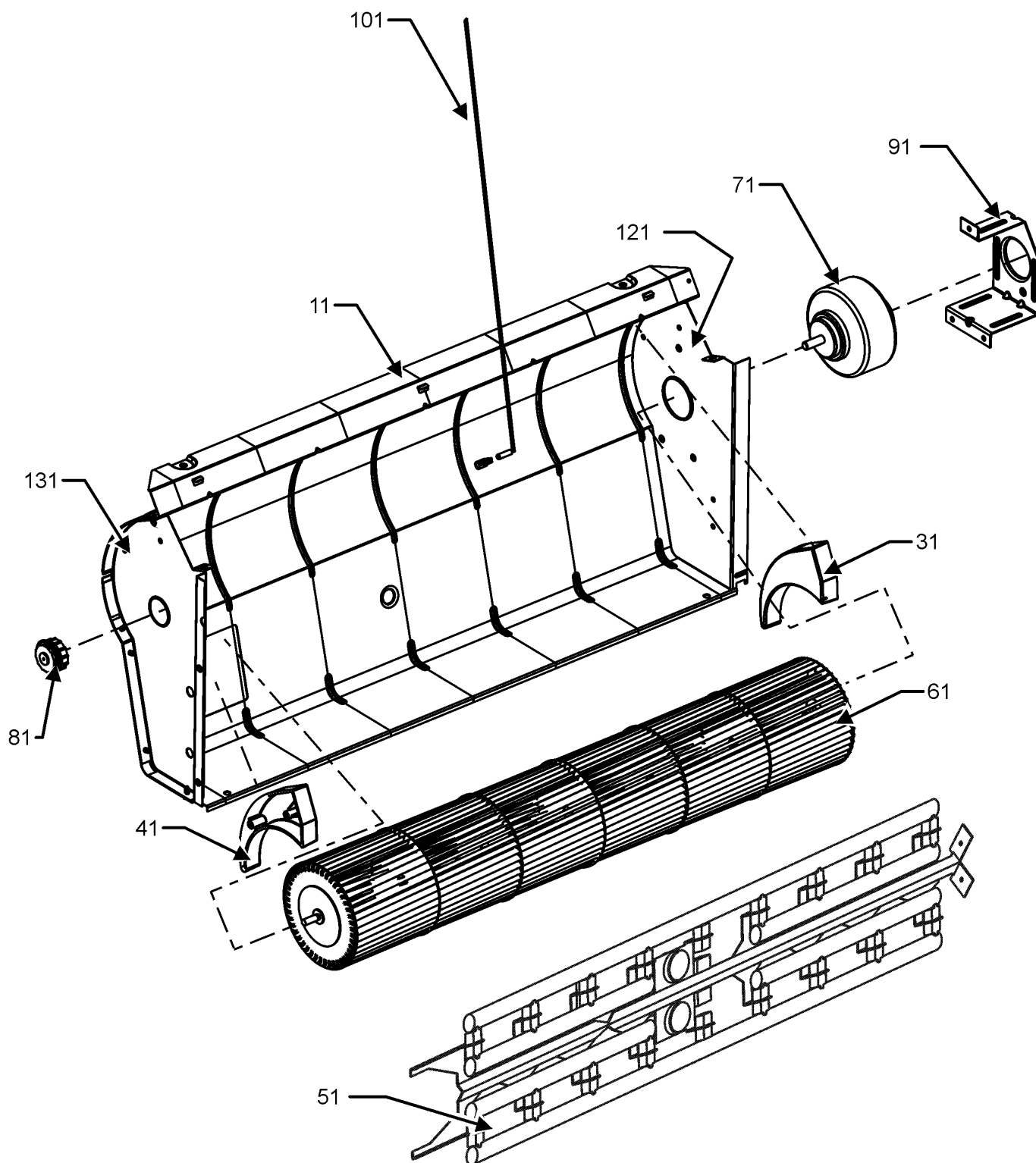
| Ref. Part<br>No: No: | Description: | Ref. Part<br>No: No: | Description:                                                                          |
|----------------------|--------------|----------------------|---------------------------------------------------------------------------------------|
| <b>Image 1:</b>      |              |                      |                                                                                       |
| 11                   | 0121P00175DG |                      | BASE PAN, PNT (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M13, M14, M15, M16, M17, M18) |
| 11                   | 0121P00175NG |                      | BASEPAN (M11, M12)                                                                    |
| 21                   | 0161P00044   |                      | PLASTIC-DRAIN PAN                                                                     |
| 61                   | 20403301     |                      | MID PARTITION PANEL                                                                   |
| 71                   | 0121P00063NG |                      | TOP, PARTITION PANEL                                                                  |
| 81                   | 0121P00197   |                      | SEAL-L SIDE PTC                                                                       |
| 91                   | 0121P00198   |                      | SEAL-R SIDE PTC                                                                       |
| 101                  | 0121P00071NG |                      | BRACE, TIE (QTY 2)                                                                    |
| 111                  | 0121P00070DG |                      | COVER, MOTOR                                                                          |
| 121                  | 0121P00129   |                      | COVER-CONTROL PANEL                                                                   |
| 131                  | RSKP0015     |                      | CONTROL PANEL COVER AND MEMBRANE                                                      |
| 141                  | 0161P00016   |                      | PLASTIC-HOOD (M1, M2, M3, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M18)          |
| 151                  | 20410801     |                      | ACCESS COVER                                                                          |
| 161                  | 0121P00061DG |                      | CUTOFF-SCROLL DG                                                                      |
| 251                  | 0130P00112   |                      | CORD,250VAC,15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8)                                |
| 251                  | 0130P00115   |                      | CORD,250VAC,20A (LCD) (M9, M10, M11, M12, M13)                                        |
| 251                  | 0130P00118   |                      | CORD,250VAC,30A (LCD) (M14, M15, M16, M17, M18)                                       |
| NS                   | 0130P00109   |                      | MEMBRANE (CONTROL)                                                                    |

## Expanded Model Nomenclature

M1 - PTC173G00AXXXBA  
 M2 - PTC173G00AXXXBB  
 M3 - PTC173G00DHXXBB  
 M4 - PTC173G00HQXXBA  
 M5 - PTC173G00HQXXBB  
 M6 - PTC173G00HXXXBA  
 M7 - PTC173G00HXXXBB  
 M8 - PTC173G25AXXXBB  
 M9 - PTC173G35AXXXBA  
 M10 - PTC173G35AXXXBB  
 M11 - PTC173G35CXXXBA  
 M12 - PTC173G35CXXXBB  
 M13 - PTC173G35VXXXBB  
 M14 - PTC173G50AXXXBA  
 M15 - PTC173G50AXXXBB  
 M16 - PTC173G50QXXXBA  
 M17 - PTC173G50QXXXBB  
 M18 - PTC173G50RXXXBB

# Indoor Blower Assembly

## INDOOR BLOWER ASSEMBLY



# Indoor Blower Assembly

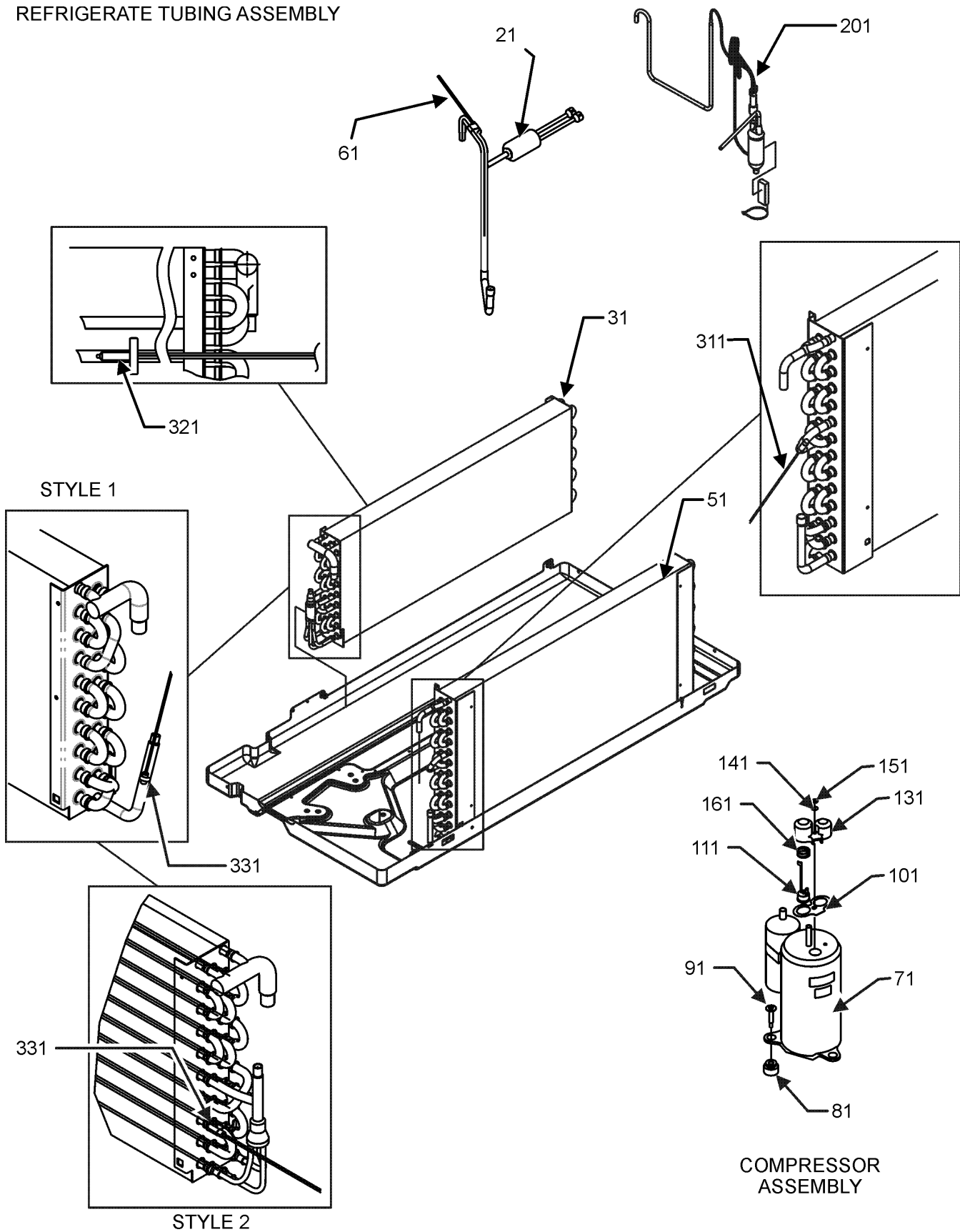
| Ref. Part<br>No: No: | Description: | Ref. Part<br>No: No: | Description:                          |
|----------------------|--------------|----------------------|---------------------------------------|
| <b>Image 1:</b>      |              |                      |                                       |
| 11                   | 0121P00173DG |                      | SCROLL                                |
| 31                   | 0161P00021   |                      | END CAP, RIGHT                        |
| 41                   | 0161P00022   |                      | END CAP, LEFT                         |
| 51                   | 0275P00019   |                      | HEATER ASSY (M8)                      |
| 51                   | 0275P00038   |                      | HEATER ASSY (M9, M10, M11, M12, M13)  |
| 51                   | 0275P00039   |                      | HEATER ASSY (M14, M15, M16, M17, M18) |
| 61                   | 0150P00004   |                      | WHEEL, BLOWER                         |
| 71                   | 0131P00036   |                      | FAN MOTOR, INDOOR                     |
| 81                   | 0163P00027   |                      | BEARING                               |
| 91                   | 0121P00048   |                      | BRACKET-MOTOR MOUNT                   |
| 101                  | 0130P00134   |                      | THERMISTOR - DISCHARGE                |
| 121                  | 0121P00059DG |                      | ENDPLATE-RH SCROLL                    |
| 131                  | 0121P00215DG |                      | ENDPLATE-LH SCROLL, PNT               |

## Expanded Model Nomenclature

M1 - PTC173G00AXXXBA  
 M2 - PTC173G00AXXXBB  
 M3 - PTC173G00DHXXBB  
 M4 - PTC173G00HQXXBA  
 M5 - PTC173G00HQXXBB  
 M6 - PTC173G00HXXXBA  
 M7 - PTC173G00HXXXBB  
 M8 - PTC173G25AXXXBB  
 M9 - PTC173G35AXXXBA  
 M10 - PTC173G35AXXXBB  
 M11 - PTC173G35CXXXBA  
 M12 - PTC173G35CXXXBB  
 M13 - PTC173G35VXXXBB  
 M14 - PTC173G50AXXXBA  
 M15 - PTC173G50AXXXBB  
 M16 - PTC173G50QXXXBA  
 M17 - PTC173G50QXXXBB  
 M18 - PTC173G50RXXXBB

# Refrigerate Tubing Assembly

## REFRIGERATE TUBING ASSEMBLY



## COMPRESSOR ASSEMBLY

# Refrigerate Tubing Assembly

| Ref. Part<br>No: No: | Description: | Ref. Part<br>No: No: | Description:                                                           |
|----------------------|--------------|----------------------|------------------------------------------------------------------------|
| <b>Image 1:</b>      |              |                      |                                                                        |
| 21                   | 0130M00239   |                      | SWITCH, HIGH PRESS                                                     |
| 31                   | 0202P00065   |                      | EVAP ASSY, 5/16, 3 ROW                                                 |
| 51                   | 0201P00097   |                      | 7 MM CONDENSER COIL ASSY (M2, M3, M5, M7, M8, M10, M13, M15, M17, M18) |
| 51                   | 0201P00105NG |                      | 7MM CONDENSER ASSEMBLY PAINTED (M12)                                   |
| 51                   | 0201P00079   |                      | CONDENSER ASSY (M1, M4, M6, M9, M14, M16)                              |
| 51                   | 0201P00083NG |                      | CONDENSER ASSY PNT (M11)                                               |
| 61                   | 0130P00077   |                      | THERMISTOR (M18)                                                       |
| 71                   | 50A422Q      |                      | COMPRESSOR, RECHI                                                      |
| 81                   | 60140209     |                      | COMPRESSOR GROMMET (QTY 3)                                             |
| 91                   | M0253610     |                      | SHOULDER SCREW (QTY 3)                                                 |
| 101                  | 60100103     |                      | TERMINAL GASKET                                                        |
| 111                  | 60343611     |                      | OVERLOAD PROTECTOR-RECHI                                               |
| 131                  | 60100314     |                      | TERMINAL COVER - RECHI COMP                                            |
| 141                  | 60100201     |                      | WASHER - RECHI COMPRESSOR                                              |
| 151                  | 60100401     |                      | TERMINAL NUT - RECHI COMP                                              |
| 161                  | 60500101     |                      | OLP SPRING - RECHI COMPRESSOR                                          |
| 201                  | 0210P00249   |                      | CAPILLARY WELDMENT (M1, M4, M6, M9, M11, M14, M16)                     |
| 201                  | 0210P00305   |                      | CAPILLARY WELDMENT (M2, M3, M5, M7, M8, M10, M12, M13, M15, M17, M18)  |
| 311                  | 0130P00094   |                      | THERMISTOR (M18)                                                       |
| 321                  | 0130P00144   |                      | THERMISTOR                                                             |
| 331                  | 0130P00142   |                      | THERMISTOR                                                             |

## Expanded Model Nomenclature

M1 - PTC173G00AXXXBA  
 M2 - PTC173G00AXXXBB  
 M3 - PTC173G00DHXXBB  
 M4 - PTC173G00HQXXBA  
 M5 - PTC173G00HQXXBB  
 M6 - PTC173G00HXXXBA  
 M7 - PTC173G00HXXXBB  
 M8 - PTC173G25AXXXBB  
 M9 - PTC173G35AXXXBA  
 M10 - PTC173G35AXXXBB  
 M11 - PTC173G35CXXXBA  
 M12 - PTC173G35CXXXBB  
 M13 - PTC173G35VXXXBB  
 M14 - PTC173G50AXXXBA  
 M15 - PTC173G50AXXXBB  
 M16 - PTC173G50QXXXBA  
 M17 - PTC173G50QXXXBB  
 M18 - PTC173G50RXXXBB