

# PRO<sup>3</sup> TOP MOUNT PACKAGED REFRIGERATION SYSTEM

Technical Guide

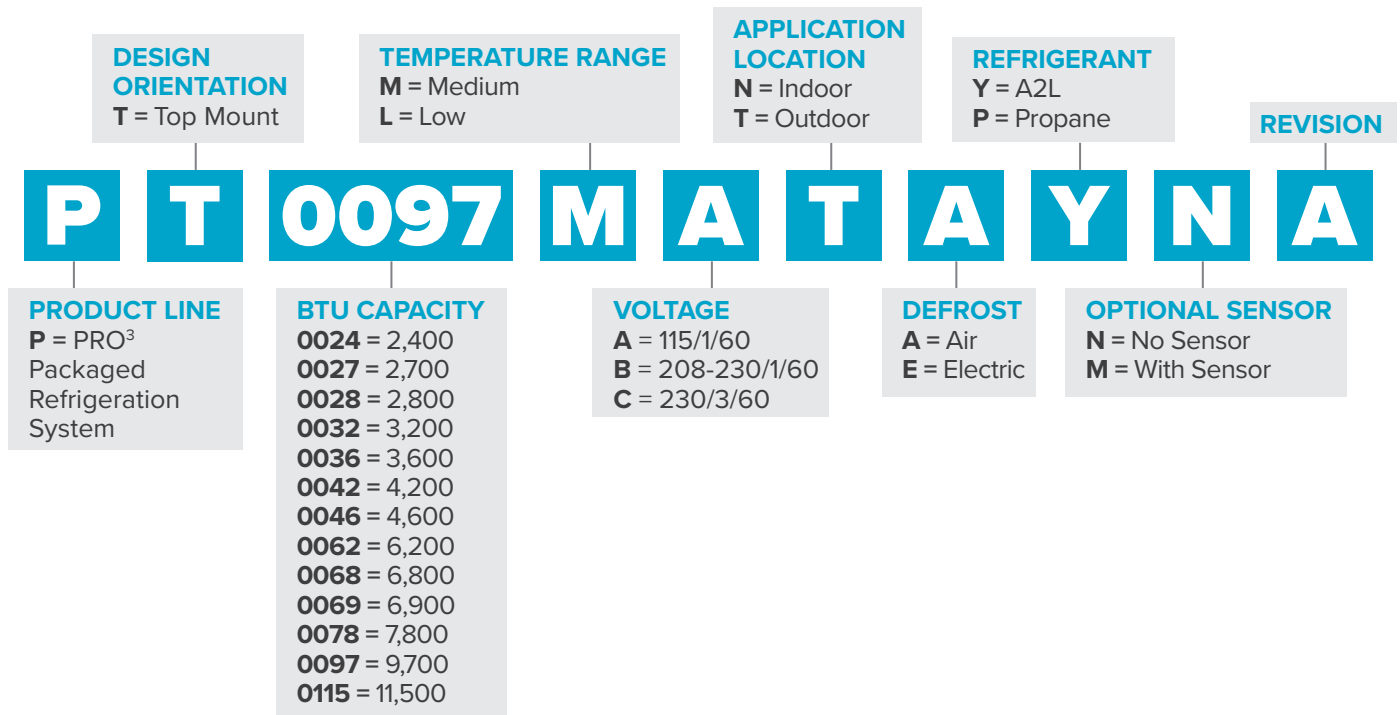


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## NOMENCLATURE



## FEATURES & BENEFITS

The **PRO<sup>3</sup>** Top Mount packaged refrigeration system combines evaporator and condensing unit into one unit expediting installation time and reducing refrigerant charge — saving time, money and energy.

This packaged system is designed to maximize storage space inside walk-in coolers or freezers and is ideal for small- to medium-sized restaurant and convenience store applications.

System is fully-assembled, evacuated, charged, run-tested and wired at the factory. No additional components are required.

### AESTHETICS

- Stucco-aluminum finish

### PERFORMANCE

- Maximum vertical storage capacity
- Ideal for holding temperature
- Medium-temp air and electric defrost
- Low-temp electric defrost

### ENVIRONMENTALLY FRIENDLY

- Pre-charged with R-290 (P1 cabinet) & R-455A (P2 & P3 cabinet) refrigerant to meet CARB, US Climate and AIM Act Technology Transition requirements

### RELIABLE | DURABLE

- Liquid-line filter drier (Medium and large cabinet only)
- Two-year parts warranty

### ENERGY EFFICIENCY

- P1 units use 2 speed EC Evaporator motors
- P2 & P3 units use 2 speed EC Evaporator motors
- P2 & P3 units use single speed EC Condenser motors
- P2 & P3 units use a Microchannel condenser for higher efficiency & corrosion protection

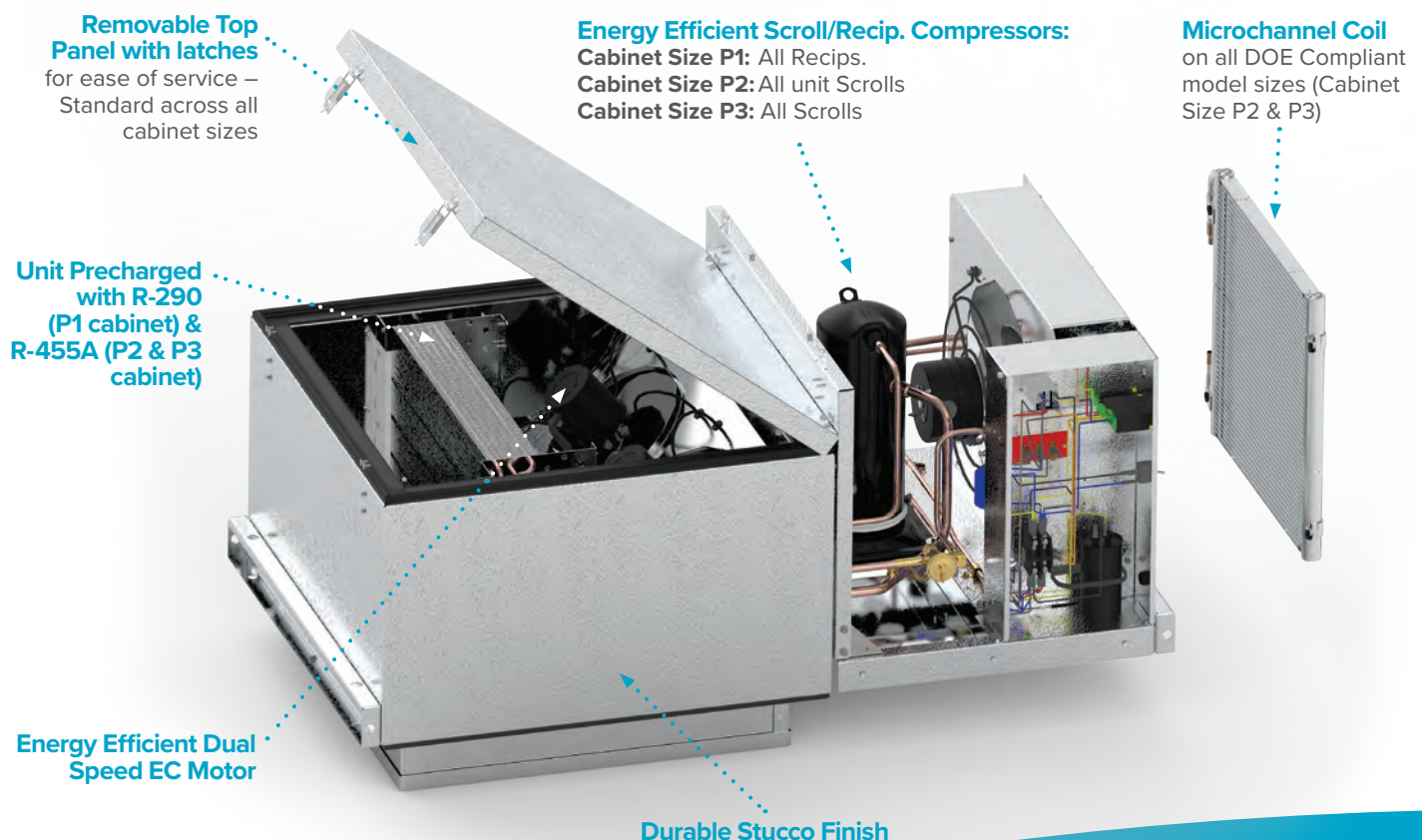
### EASE OF INSTALLATION

- Pre-charged with refrigerant
- No refrigerant piping required
- Evaporative condensate pan (indoor units only)
- All units get a removable top panel with latches
- All P1 & select P2 & P3 units come with a power cord

### CONTROLS

- Microprocessor control

## OUTSTANDING FEATURES



## AIR & ELECTRIC DEFROST

Medium Temperature/Cooler (R-290)

| Model          | 80°F Ambient    |       | 90°F Ambient |       | 95°F Ambient |       | 100°F Ambient |       | 110°F Ambient |       |
|----------------|-----------------|-------|--------------|-------|--------------|-------|---------------|-------|---------------|-------|
|                | Box Temperature |       |              |       |              |       |               |       |               |       |
|                | 35°F            | 38°F  | 35°F         | 38°F  | 35°F         | 38°F  | 35°F          | 38°F  | 35°F          | 38°F  |
| PT0024MAN#P\$A | 2,520           | 2,640 | 2,380        | 2,510 | 2,310        | 2,420 | 2,230         | 2,340 | 2,080         | 2,180 |
| PT0028MAN#P\$A | 2,930           | 3,070 | 2,770        | 2,920 | 2,670        | 2,820 | 2,590         | 2,720 | 2,430         | 2,590 |
| PT0032MAN#P\$A | 3,380           | 3,530 | 3,210        | 3,360 | 3,090        | 3,270 | 3,010         | 3,180 | 2,830         | 2,990 |

Medium Temperature/Cooler (R-455A)

| Model                        | 80°F Ambient    |        | 90°F Ambient |        | 95°F Ambient |        | 100°F Ambient |        | 110°F Ambient |        |
|------------------------------|-----------------|--------|--------------|--------|--------------|--------|---------------|--------|---------------|--------|
|                              | Box Temperature |        |              |        |              |        |               |        |               |        |
|                              | 35°F            | 38°F   | 35°F         | 38°F   | 35°F         | 38°F   | 35°F          | 38°F   | 35°F          | 38°F   |
| PT0068MB*#Y\$AA <sup>+</sup> | 7,120           | 7,460  | 6,770        | 7,150  | 6,620        | 7,020  | 6,460         | 6,740  | 6,000         | 6,360  |
| PT0068MB*#Y\$A               | 7,120           | 7,460  | 6,770        | 7,150  | 6,620        | 7,020  | 6,460         | 6,740  | 6,000         | 6,360  |
| PT0078MB*#Y\$A               | 8,240           | 8,660  | 7,760        | 8,270  | 7,720        | 8,060  | 7,460         | 7,720  | 7,060         | 7,380  |
| PT0097MB*#Y\$A               | 9,980           | 10,390 | 9,560        | 10,100 | 9,370        | 9,900  | 9,120         | 9,560  | 8,600         | 8,980  |
| PT0097MC*#Y\$A               | 10,030          | 10,450 | 9,730        | 10,190 | 9,430        | 9,980  | 9,190         | 9,770  | 8,660         | 9,090  |
| PT0115MB*#Y\$A               | 11,830          | 12,490 | 11,510       | 12,160 | 11,240       | 11,850 | 10,890        | 11,460 | 10,180        | 10,690 |
| PT0115MC*#Y\$A               | 12,070          | 12,570 | 11,580       | 12,080 | 11,330       | 11,850 | 10,990        | 11,560 | 10,270        | 10,780 |

## ELECTRIC DEFROST

Low Temperature/Freezer (R-455A)

| Model          | 80°F Ambient    |       |       | 90°F Ambient |       |       | 95°F Ambient |       |       | 100°F Ambient |       |       | 110°F Ambient |       |       |
|----------------|-----------------|-------|-------|--------------|-------|-------|--------------|-------|-------|---------------|-------|-------|---------------|-------|-------|
|                | Box Temperature |       |       |              |       |       |              |       |       |               |       |       |               |       |       |
|                | 0°F             | -10°F | -20°F | 0°F          | -10°F | -20°F | 0°F          | -10°F | -20°F | 0°F           | -10°F | -20°F | 0°F           | -10°F | -20°F |
| PT0027LB*EY\$A | 3,450           | 2,830 | 2,350 | 3,270        | 2,730 | 2,230 | 3,200        | 2,680 | 2,210 | 3,110         | 2,590 | 2,110 | 2,960         | 2,430 | 2,010 |
| PT0036LB*EY\$A | 4,550           | 3,710 | 2,960 | 4,360        | 3,570 | 2,800 | 4,250        | 3,460 | 2,740 | 4,150         | 3,340 | 2,690 | 3,860         | 3,120 | 2,480 |
| PT0042LB*EY\$A | 5,420           | 4,440 | 3,520 | 5,210        | 4,220 | 3,390 | 5,100        | 4,110 | 3,230 | 4,890         | 3,980 | 3,170 | 4,570         | 3,670 | 2,900 |
| PT0062LB*EY\$A | 7,900           | 6,470 | 5,190 | 7,670        | 6,170 | 4,870 | 7,450        | 6,030 | 4,830 | 7,130         | 5,880 | 4,710 | 6,810         | 5,480 | 4,340 |
| PT0062LC*EY\$A | 7,910           | 6,470 | 5,200 | 7,610        | 6,170 | 4,870 | 7,440        | 6,030 | 4,830 | 7,290         | 5,880 | 4,710 | 6,810         | 5,480 | 4,340 |
| PT0069LB*EY\$A | 8,650           | 7,180 | 5,780 | 8,350        | 6,860 | 5,600 | 8,150        | 6,680 | 5,500 | 7,850         | 6,500 | 5,220 | 7,390         | 6,030 | 4,960 |
| PT0069LC*EY\$A | 8,650           | 7,180 | 5,780 | 8,360        | 6,860 | 5,610 | 8,160        | 6,690 | 5,500 | 7,850         | 6,500 | 5,220 | 7,390         | 6,040 | 4,960 |

### Notes:

# A = Air defrost, E = Electric defrost

\* N = Indoor, T = Outdoor

§ N = No Sensor, M = With Sensor

<sup>+</sup> = This model temporarily replaces PT0046MB models

## AWEF DATA – MEDIUM TEMPERATURE

### Walk-In Cooler (R-290)

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in cooler applications

| Model   | Indoor | Outdoor |
|---------|--------|---------|
| PT0024M | 5.61   | X       |
| PT0028M | 5.61   | X       |
| PT0032M | 5.61   | X       |

### Walk-In Cooler (R-455A)

| Model    | Indoor | Outdoor |
|----------|--------|---------|
| PT0046M* | X      | X       |
| PT0068M  | 5.61   | 7.60    |
| PT0078M  | 5.61   | 7.60    |
| PT0097M  | 5.61   | 7.60    |
| PT0115M  | 5.61   | 7.60    |

## AWEF DATA – LOW TEMPERATURE

### Walk-In Freezer (R-455A)

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in freezer applications

| Model   | Indoor | Outdoor |
|---------|--------|---------|
| PT0027L | 2.04   | 2.89    |
| PT0036L | 2.11   | 2.94    |
| PT0042L | 2.17   | 2.98    |
| PT0062L | 2.32   | 3.08    |
| PT0069L | 2.38   | 3.13    |

**Notes:**

X = Model not available in outdoor

\* = This model is temporarily unavailable. Please contact Heatcraft sales for more information

# ELECTRICAL DATA

All Models

| Model                        | Defrost | Voltage      | MCA  | MOPD | Unit Amps | Evaporator CFM | Plug Supplied | Matching NEMA Receptacle | Dimensions Figure | Aprox. Net Weight |     |
|------------------------------|---------|--------------|------|------|-----------|----------------|---------------|--------------------------|-------------------|-------------------|-----|
|                              |         |              |      |      |           |                |               |                          |                   | Lbs.              | kg  |
| PT0024MANEP\$A               | E       | 115/1/60     | 15   | 15   | 4.6       | 250            | YES           | 5-20R                    | 1                 | 112               | 51  |
| PT0024MANAP\$A               | A       | 115/1/60     | 15   | 15   | 4.6       | 250            | YES           | 5-20R                    | 1                 | 110               | 50  |
| PT0028MANEP\$A               | E       | 115/1/60     | 15   | 15   | 4.6       | 300            | YES           | 5-20R                    | 1                 | 117               | 53  |
| PT0028MANAP\$A               | A       | 115/1/60     | 15   | 15   | 4.6       | 300            | YES           | 5-20R                    | 1                 | 115               | 52  |
| PT0032MANEP\$A               | E       | 115/1/60     | 15   | 15   | 4.6       | 300            | YES           | 5-20R                    | 1                 | 117               | 53  |
| PT0032MANAP\$A               | A       | 115/1/60     | 15   | 15   | 4.6       | 300            | YES           | 5-20R                    | 1                 | 115               | 52  |
| PT0027LBNEY\$A               | E       | 208-230/1/60 | 8.5  | 15   | 7.1       | 330            | YES           | 6-15R                    | 2                 | 215               | 98  |
| PT0036LBNEY\$A               | E       | 208-230/1/60 | 10.9 | 15   | 9.2       | 550            | YES           | 6-15R                    | 2                 | 220               | 100 |
| PT0042LBNEY\$A               | E       | 208-230/1/60 | 12.4 | 20   | 10.4      | 550            | YES           | 6-20R                    | 2                 | 225               | 102 |
| PT0068MBNEY\$AA <sup>+</sup> | E       | 208-230/1/60 | 9.3  | 15   | 8.0       | 550            | YES           | 6-15R                    | 2                 | 215               | 98  |
| PT0068MBNAY\$AA <sup>+</sup> | A       | 208-230/1/60 | 9.3  | 15   | 8.0       | 550            | YES           | 6-15R                    | 2                 | 215               | 98  |
| PT0068MBNEY\$A               | E       | 208-230/1/60 | 9.3  | 15   | 8.0       | 550            | YES           | 6-15R                    | 2                 | 215               | 98  |
| PT0068MBNAY\$A               | A       | 208-230/1/60 | 9.3  | 15   | 8.0       | 550            | YES           | 6-15R                    | 2                 | 215               | 98  |
| PT0078MBNEY\$A               | E       | 208-230/1/60 | 9.7  | 15   | 8.2       | 500            | YES           | 6-15R                    | 2                 | 220               | 100 |
| PT0078MBNAY\$A               | A       | 208-230/1/60 | 9.7  | 15   | 8.2       | 500            | YES           | 6-15R                    | 2                 | 220               | 100 |
| PT0027LBTEY\$A               | E       | 208-230/1/60 | 9.4  | 15   | 8.0       | 330            | NO            | —                        | 2                 | 230               | 104 |
| PT0036LBTEY\$A               | E       | 208-230/1/60 | 10.9 | 15   | 9.2       | 550            | NO            | —                        | 2                 | 235               | 107 |
| PT0042LBTEY\$A               | E       | 208-230/1/60 | 12.4 | 20   | 10.4      | 550            | NO            | —                        | 2                 | 240               | 109 |
| PT0068MBTEY\$A               | E       | 208-230/1/60 | 9.3  | 15   | 8.0       | 550            | NO            | —                        | 2                 | 230               | 104 |
| PT0068MBTAY\$A               | A       | 208-230/1/60 | 9.3  | 15   | 8.0       | 550            | NO            | —                        | 2                 | 230               | 104 |
| PT0078MBTEY\$A               | E       | 208-230/1/60 | 9.7  | 15   | 8.2       | 500            | NO            | —                        | 2                 | 245               | 111 |
| PT0078MBTAY\$A               | A       | 208-230/1/60 | 9.7  | 15   | 8.2       | 500            | NO            | —                        | 2                 | 245               | 111 |
| PT0062LBNEY\$A               | E       | 208-230/1/60 | 19.5 | 30   | 16.5      | 825            | NO            | —                        | 3                 | 275               | 125 |
| PT0062LCNEY\$A               | E       | 208-230/3/60 | 14.7 | 20   | 12.6      | 825            | NO            | —                        | 3                 | 275               | 125 |
| PT0069LBNEY\$A               | E       | 208-230/1/60 | 19.8 | 30   | 16.7      | 825            | NO            | —                        | 3                 | 275               | 125 |
| PT0069LCNEY\$A               | E       | 208-230/3/60 | 14.0 | 20   | 12.1      | 825            | NO            | —                        | 3                 | 275               | 125 |
| PT0097MBNEY\$A               | E       | 208-230/1/60 | 14.5 | 20   | 12.3      | 610            | YES           | 6-20R                    | 3                 | 260               | 118 |
| PT0097MCNEY\$A               | E       | 208-230/3/60 | 12.3 | 15   | 10.5      | 610            | NO            | —                        | 3                 | 260               | 118 |
| PT0097MBNAY\$A               | A       | 208-230/1/60 | 14.5 | 20   | 12.3      | 610            | YES           | 6-20R                    | 3                 | 260               | 118 |

## Notes:

§ N = No Sensor, M = With Sensor

\* = These models temporarily replace PT0046MB models

# ELECTRICAL DATA

All Models (cont.)

| Model          | Defrost | Voltage      | MCA  | MOPD | Unit Amps | Evaporator CFM | Plug Supplied | Matching NEMA Receptacle | Dimensions Figure | Aprox. Net Weight |     |
|----------------|---------|--------------|------|------|-----------|----------------|---------------|--------------------------|-------------------|-------------------|-----|
|                |         |              |      |      |           |                |               |                          |                   | Lbs.              | kg  |
| PT0097MCNAY\$A | A       | 208-230/3/60 | 12.3 | 15   | 10.5      | 610            | NO            | —                        | 3                 | 260               | 118 |
| PT0115MBNEY\$A | E       | 208-230/1/60 | 18.5 | 25   | 15.6      | 825            | YES           | 6-20R                    | 3                 | 260               | 118 |
| PT0115MCNEY\$A | E       | 208-230/3/60 | 15.9 | 25   | 13.6      | 825            | NO            | —                        | 3                 | 260               | 118 |
| PT0115MBNAY\$A | A       | 208-230/1/60 | 18.5 | 25   | 15.6      | 825            | YES           | 6-20R                    | 3                 | 260               | 118 |
| PT0115MCNAY\$A | A       | 208-230/3/60 | 15.9 | 25   | 13.6      | 825            | NO            | —                        | 3                 | 260               | 118 |
| PT0062LBTEY\$A | E       | 208-230/1/60 | 19.5 | 30   | 16.5      | 825            | NO            | —                        | 3                 | 295               | 134 |
| PT0062LCTEY\$A | E       | 208-230/3/60 | 14.7 | 20   | 12.6      | 825            | NO            | —                        | 3                 | 295               | 134 |
| PT0069LBTEY\$A | E       | 208-230/1/60 | 19.8 | 30   | 16.7      | 825            | NO            | —                        | 3                 | 295               | 134 |
| PT0069LCTEY\$A | E       | 208-230/3/60 | 14.0 | 20   | 12.1      | 825            | NO            | —                        | 3                 | 295               | 134 |
| PT0097MBTEY\$A | E       | 208-230/1/60 | 14.5 | 20   | 12.3      | 610            | NO            | —                        | 3                 | 280               | 127 |
| PT0097MCTEY\$A | E       | 208-230/3/60 | 12.3 | 15   | 10.5      | 610            | NO            | —                        | 3                 | 280               | 127 |
| PT0097MBTAY\$A | A       | 208-230/1/60 | 14.5 | 20   | 12.3      | 610            | NO            | —                        | 3                 | 280               | 127 |
| PT0097MCTAY\$A | A       | 208-230/3/60 | 12.3 | 15   | 10.5      | 610            | NO            | —                        | 3                 | 280               | 127 |
| PT0115MBTEY\$A | E       | 208-230/1/60 | 18.5 | 25   | 15.6      | 825            | NO            | —                        | 3                 | 280               | 127 |
| PT0115MCTEY\$A | E       | 208-230/3/60 | 15.9 | 25   | 13.6      | 825            | NO            | —                        | 3                 | 280               | 127 |
| PT0115MBTAY\$A | A       | 208-230/1/60 | 18.5 | 25   | 15.6      | 825            | NO            | —                        | 3                 | 280               | 127 |
| PT0115MCTAY\$A | A       | 208-230/3/60 | 15.9 | 25   | 13.6      | 825            | NO            | —                        | 3                 | 280               | 127 |

## Notes:

§ N = No Sensor, M = With Sensor



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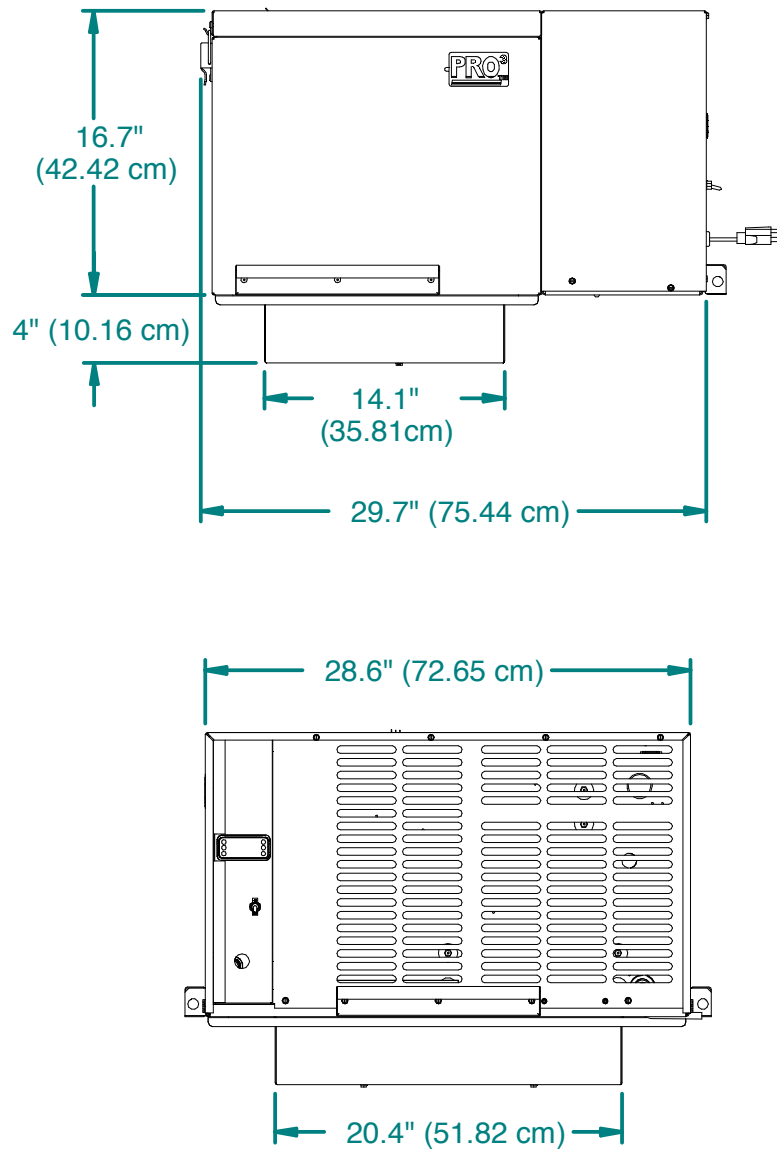
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## REPLACEMENT PARTS

| Model                    | Cabinet, Voltage/Phase |                |           |            |            |           |
|--------------------------|------------------------|----------------|-----------|------------|------------|-----------|
|                          | P1, 115/1              |                | P2, 115/1 | P2, 230/1  | P3, 230/1  | P3, 230/3 |
|                          | PT0024                 | PT0028, PT0032 |           |            |            |           |
| Motor - Condenser        | 25312001               | 25302101       | 25308501  | 25322404   | 25322404   | 25322404  |
| Motor - Evaporator       | 25302101               |                | 25329002  | 25329101   | 25329101   | 25329101  |
| Fan blade - Condenser    | N/A                    |                | 5110E     | 22901601   | 22901601   | 22901601  |
| Fan blade - Evaporator   | N/A                    |                | 22901901  | 22901901   | 22901901   | 22901901  |
| Motor Mount - Condenser  | N/A                    |                | 23103301  | 23106101   | 23106101   | 23106101  |
| Motor Mount - Evaporator | N/A                    |                | 23103301  | 23103301   | 23103301   | 23103301  |
| Contactors               | 2254303                |                | 2252303   | R034915200 | R034915200 | 2259996   |
| Temperature Controller   | 21300001               |                | 21300001  | 21302401   | 21302401   | 21302401  |
| Room Temp Sensor         | 28913702               |                | 28913703  | 28913703   | 28913703   | 28913703  |
| Defrost Temp Sensor      | 28913701               |                | 28913701  | 28913701   | 28913701   | 28913701  |
| Defrost Limit Switch     | 5708L                  |                | 5708L     | 5708L      | 5708L      | 5708L     |
| Defrost Heaters          | 24712101               |                | 24712101  | 4312F      | 4313F      | 4313F     |
| Fan Pressure Control     | N/A                    |                | N/A       | 28917302   | 28917302   | 28917302  |
| Fan Temp Control         | N/A                    |                | N/A       | N/A        | 5521R      | 5521R     |
| Drain Line Heater        | N/A                    |                | N/A       | 24753401   | 24753401   | 24753401  |
| Drain Line Heater T'stat | N/A                    |                | N/A       | 28917401   | 28917401   | 28917401  |
| Weatherhood              | N/A                    |                | N/A       | 59332801   | 50087601   | 50087601  |
| Grille                   |                        |                | 24112501  |            | 24112601   |           |
| Mitigation Sensor        | 28992601               |                |           | 28992701   |            |           |

## DIMENSIONAL DRAWINGS

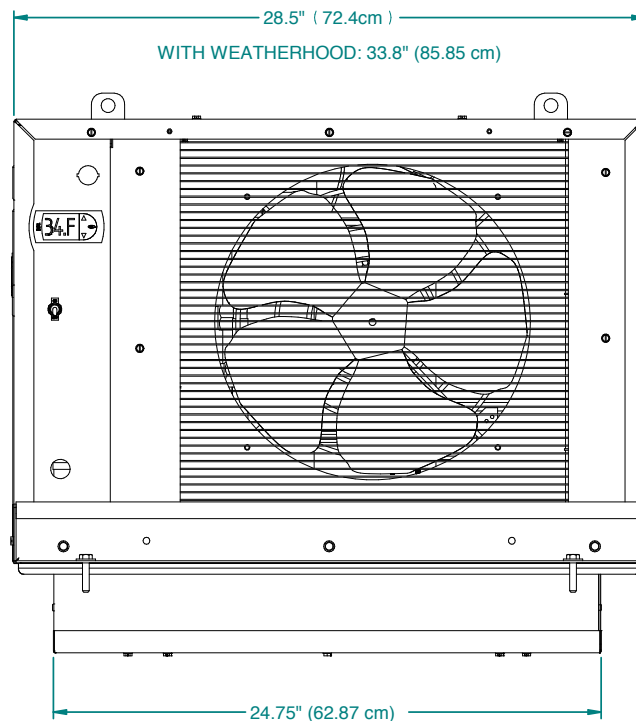
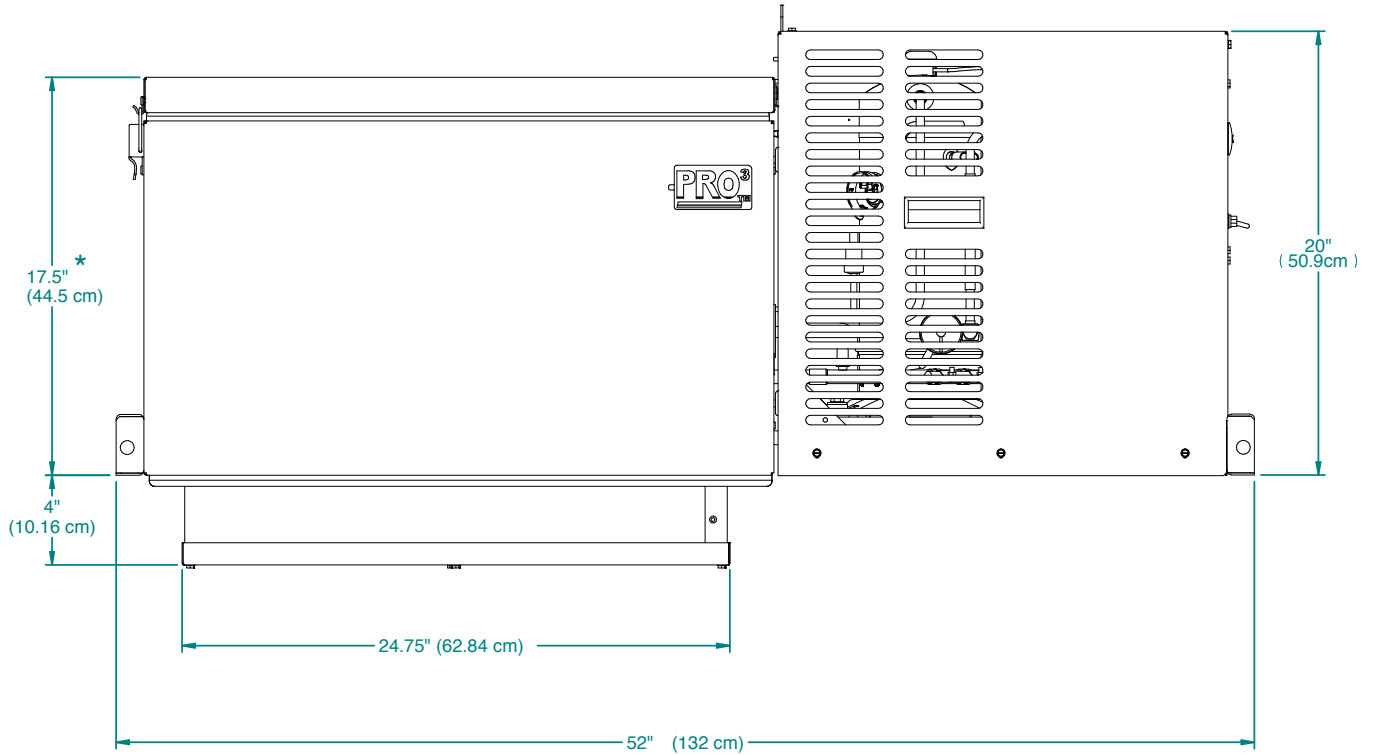
FIGURE 1  
P1 CABINET DESIGN/INDOOR ONLY



14.25" X 20.75" PANEL OPENING REQUIRED FOR EVAPORATOR SECTION OF "P1" CABINET SIZES.

## DIMENSIONAL DRAWINGS

FIGURE 2  
P2 CABINET DESIGN

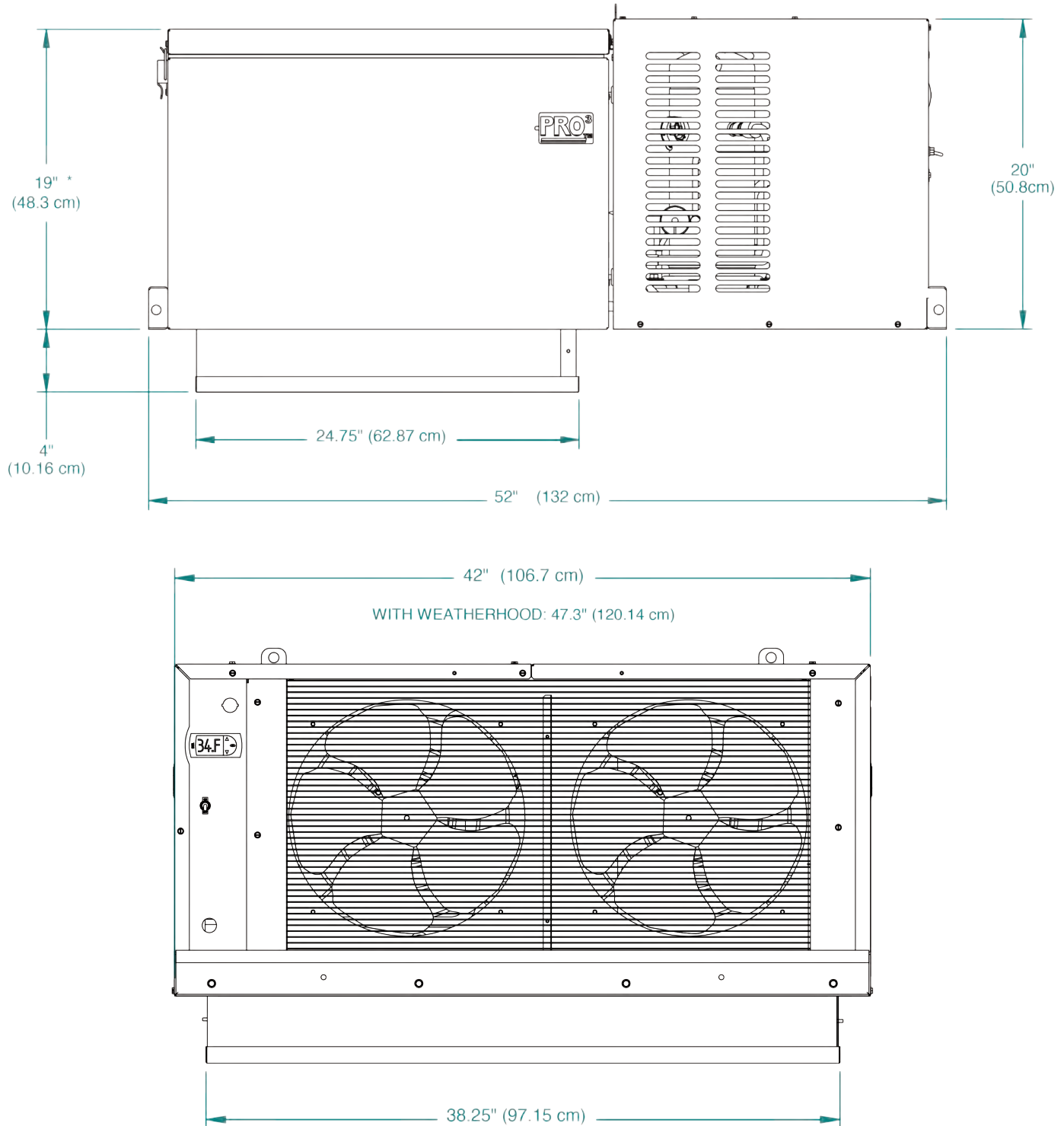


25"X25" PANEL OPENING REQUIRED FOR EVAPORATOR SECTION OF "P2" CABINET SIZES.

\* - 23.5" (59.69 cm) ON OUTDOOR MODELS WITH WEATHERHOOD

## DIMENSIONAL DRAWINGS

FIGURE 3  
P3 CABINET DESIGN



25"X38.5" PANEL OPENING REQUIRED FOR EVAPORATOR SECTION OF "P3" CABINET SIZES.

\* - 25.5" (64.77 cm) ON OUTDOOR MODELS WITH WEATHERHOOD



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Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.

**CC-LGWP-PROTB-1124 | Version 003**

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