

## MULTI-ZONES SPECS AT A GLANCE

# ComfortStar®

## COMFORTSTAR® DUCTLESS FLEX-MOUNT MULTI-ZONE HEAT PUMP SYSTEMS SPECS AT-A-GLANCE

| COMFORTSTAR MODEL NO. |        |     | MIN. POWER SUPPLY WIRE SIZE (AWG) | MIN. INTER-CONNECTING WIRE SIZE (AWG) | BREAKER SIZE (A) | PIPING SIZES (IN)                | MAX. ALLOWABLE PIPING LENGTH (FT) | MIN. RECOMMENDED PIPING LENGTH (FT) | MAX. ALLOWABLE ELEVATION DIFFERENCE (FT)   |
|-----------------------|--------|-----|-----------------------------------|---------------------------------------|------------------|----------------------------------|-----------------------------------|-------------------------------------|--|
| CM2-18-2Z             | 2 ZONE | 18K | 14                                | 16                                    | 20               | (1/4"/3/8")*2                    | 66 for 1 IDU 98 for sum up        | 9                                   | 1) 33 for ODU higher than IDU<br>2) 49 for ODU lower than IDU<br>3) 33 between IDU and IDU |
| CM3-24-3Z             | 3 ZONE | 27k | 14                                | 16                                    | 25               | (1/4"/3/8")*3                    | 82 to 1 IDU for sum up            | 9                                   |  |
| CM4-36-4Z             | 4 ZONE | 36k | 10                                | 16                                    | 40               | 3x (1/4"/3/8") & 1 x (1/4"/1/2") | 98 for 1 IDU 197 for sum up       | 9                                   |  |
| CM5-48-5Z             | 5 ZONE | 48k | 8                                 | 16                                    | 50               | 3x (1/4"/3/8") & 2 x (1/4"/1/2") | 98 for 1 IDU 246 for sum up       | 9                                   |  |

ODU: Outdoor Unit. /// IDU: Indoor Unit.

| COMFORTSTAR MODEL NO. |        |     | FACTORY REFRIGERANT CHARGE (FT) | REFRIGERANT ADJUSTMENT FACTOR (OZ. PER FOOT) | DRAIN PIPE SIZE (IN) | SEER | EER  | HSPF |
|-----------------------|--------|-----|---------------------------------|--|----------------------|------|------|------|
| CM2-18-2Z             | 2 ZONE | 18K | 25*2                            | 0.16   | 3/4"                 | 21.3 | 12.5 | 9.9  |
| CM3-24-3Z             | 3 ZONE | 27k | 25*3                            | 0.16   | 3/4"                 | 22.0 | 12.0 | 9.8  |
| CM4-36-4Z             | 4 ZONE | 36k | 25*4                            | 0.16   | 3/4"                 | 22.5 | 10.9 | 10.3 |
| CM5-48-5Z             | 5 ZONE | 45k | 25*5                            | 0.16   | 3/4"                 | 21.5 | 11.6 | 10.4 |

| COMFORTSTAR MODEL NO.  | MIN. POWER SUPPLY WIRE SIZE (AWG) | MIN. INTER-CONNECTING WIRE SIZE (AWG) | BREAKER SIZE (A) | PIPING SIZES (IN) | MAX. ALLOWABLE PIPING LENGTH (FT) | MIN. RECOMMENDED PIPING LENGTH (FT) | MAX. ALLOWABLE ELEVATION DIFFERENCE (FT) |
|--|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-------------------------------------|--|
| <b>ALEGRIA PLATINUM - 21 SEER HEAT PUMP SINGLE-ZONE WALL-MOUNTED/LIGHT COMMERCIAL</b>  |                                   |                                       |                  |                   |                                   |                                     |  |
| CPP009CA   | 12*3                              | 16*4, Str                             | N/A              | 1/4" 3/8"         | N/A                               | N/A                                 | N/A                                      |
| CPP012CA   | 12*3                              | 16*4, Str                             | N/A              | 1/4" 1/2"         | N/A                               | N/A                                 | N/A                                      |
| CPP009CD   | 12*3                              | 16*4, Str                             | N/A              | 1/4" 3/8"         | N/A                               | N/A                                 | N/A                                      |
| CPP012CD   | 12*3                              | 16*4, Str                             | N/A              | 1/4" 1/2"         | N/A                               | N/A                                 | N/A                                      |
| CPP018CD   | 12*3                              | 16*4, Str                             | N/A              | 1/4" 1/2"         | N/A                               | N/A                                 | N/A                                      |
| CPP024CD   | 12*3                              | 16*4, Str                             | N/A              | 3/8" 5/8"         | N/A                               | N/A                                 | N/A                                      |
| <b>ALEGRIA - 15~16 SEER LIGHT COMMERCIAL INDOOR UNITS (SINGLE ZONE AND MULTI-ZONE)</b> |                                   |                                       |                  |                   |                                   |                                     |  |
| <b>FLOOR-CEILING (UNIVERSAL)</b>   |                                   |                                       |                  |                   |                                   |                                     |  |
| FPA-18   | N/A                               | 16*4                                  | N/A              | 1/4"/1/2"         | N/A                               | N/A                                 | N/A                                      |
| FPA-24   | N/A                               | 16*4                                  | N/A              | 3/8"/5/8"         | N/A                               | N/A                                 | N/A                                      |
| <b>CASSETTE</b>  |                                   |                                       |                  |                   |                                   |                                     |  |
| TPA-12   | N/A                               | 16*4                                  | N/A              | 1/4"/1/2"         | N/A                               | N/A                                 | N/A                                      |
| TPA-18   | N/A                               | 16*4                                  | N/A              | 1/4"/1/2"         | N/A                               | N/A                                 | N/A                                      |
| TPA-24   | N/A                               | 16*4                                  | N/A              | 3/8"/5/8"         | N/A                               | N/A                                 | N/A                                      |
| <b>CONCEALED FAN COIL</b>  |                                   |                                       |                  |                   |                                   |                                     |  |
| CPA-12   | N/A                               | 16*4                                  | N/A              | 1/4"/1/2"         | N/A                               | N/A                                 | N/A                                      |
| CPA-18   | N/A                               | 16*4                                  | N/A              | 1/4"/1/2"         | N/A                               | N/A                                 | N/A                                      |

| COMFORTSTAR MODEL NO.  | FACTORY REFRIGERANT CHARGE FT/OZ | REFRIGERANT ADJUSTMENT FACTOR (OZ. PER FOOT) | DRAIN PIPE SIZE (IN) |
|--|----------------------------------|--|----------------------|
| <b>ALEGRIA PLATINUM - 21 SEER HEAT PUMP SINGLE-ZONE WALL-MOUNTED/LIGHT COMMERCIAL</b>  |                                  |  |                      |
| CPP009CA   | 25                               | 0.161  | 3/4"                 |
| CPP012CA   | 25                               | 0.161  | 3/4"                 |
| CPP009CD   | 25                               | 0.161  | 3/4"                 |
| CPP012CD   | 25                               | 0.161  | 3/4"                 |
| CPP018CD   | 25                               | 0.161  | 3/4"                 |
| CPP024CD   | 25                               | 0.322  | 3/4"                 |
| <b>ALEGRIA - 15~16 SEER LIGHT COMMERCIAL INDOOR UNITS (SINGLE ZONE AND MULTI-ZONE)</b> |                                  |  |                      |
| <b>FLOOR-CEILING (UNIVERSAL)</b>   |                                  |  |                      |
| FPA-18   | N/A                              | N/A  | 3/4"                 |
| FPA-24   | N/A                              | N/A  | 3/4"                 |
| <b>CASSETTE</b>  |                                  |  |                      |
| TPA-12   | N/A                              | N/A  | 3/4"                 |
| TPA-18   | N/A                              | N/A  | 3/4"                 |
| TPA-24   | N/A                              | N/A  | 1"                   |
| <b>CONCEALED FAN COIL</b>  |                                  |  |                      |
| CPA-12   | N/A                              | N/A  | 3/4"                 |
| CPA-18   | N/A                              | N/A  | 3/4"                 |