

# Friedrich®

AMERICA'S BEST AIR CONDITIONER

INCREDIBLE!  
12.2 EER  
PTAC

## PRODUCT PROFILE

PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS

### WallMaster®

7,000 / 9,000 / 12,000 / 15,000 Btu/h



**The All-new Friedrich WallMaster® is a perfect fit for:**

**New construction** in hotels/motels, medical facilities, assisted living centers, apartments/condos, office suites, dormitories and remodels.

**The New WallMaster® retrofits** into existing 16" x 42" sleeves more easily than other manufacturer's PTACs.

### Standard Features

- ☑ Ultrahigh efficiency. Up to 12.2 EER.
- ☑ Unique component mounting and isolation provide ultraquiet operation and vibration dampening.
- ☑ Large well spaced control panel with universal markings and non-removable controls
- ☑ Attractive front cover and tamper resistant contoured discharge grille blend with any decor.
- ☑ Quiet and efficient rotary compressor mounted on vibration isolators, with internal high temperature overload protection.
- ☑ Built-in damper allows up to 70 CFM of fresh air.
- ☑ Convenient top-mounted return air filters.
- ☑ Available in heat pump or electric heat.
- ☑ Front cover fastens to chassis with thumbscrews hidden from user.
- ☑ Emergency heat compressor override switch on all heat pumps.
- ☑ Single, totally enclosed "clam shell" motor design protects against premature failure.
- ☑ Optional seacoast protection for harsh coastal environments.
- ☑ Complete line of accessories.
- ☑ Remote thermostat control units are available.
- ☑ Units are rated in accordance with ARI Standard 310/380.
- ☑ Manufactured in the U.S.A.






## PE Series Chassis Specifications

| M O D E L S :                          | PE07K       | PE07R       | PE09K       | PE09R       | PE12K       | PE12R       | PE15K       | PE15R       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>P E R F O R M A N C E D A T A :</b> |             |             |             |             |             |             |             |             |
| Cooling Btuh.                          | 7500/7300   | 7500        | 9200/9000   | 9200        | 12000/11800 | 12000       | 15000/14800 | 15000       |
| Cooling Power (W)                      | 615/598     | 615         | 814/796     | 814         | 1091/1073   | 1091        | 1579/1578   | 1579        |
| EER                                    | 12.2        | 12.2        | 11.3        | 11.3        | 11.0        | 11.0        | 9.5         | 9.5         |
| Dehumidification (Pts/h)               | 2.1         | 2.1         | 2.7         | 2.7         | 3.8         | 3.8         | 5.5         | 5.5         |
| Sensible Heat Ratio                    | 0.76        | 0.76        | 0.75        | 0.75        | 0.72        | 0.72        | 0.72        | 0.72        |
| <b>E L E C T R I C A L D A T A :</b>   |             |             |             |             |             |             |             |             |
| Voltage (1 Ph, 60Hz)                   | 230/208     | 265         | 230/208     | 265         | 230/208     | 265         | 230/208     | 265         |
| Voltage Range                          | 253-198     | 292-239     | 253-198     | 292-239     | 253-198     | 292-239     | 253-198     | 292-239     |
| Current (Amps) (A)                     | 3.0         | 3.0         | 3.9         | 3.9         | 5.1         | 5.1         | 6.6         | 6.6         |
| Power Factor                           | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         |
| Amps L.R                               | 18          | 18          | 22.2        | 22.2        | 26.3        | 26.3        | 38          | 38          |
| Amps F.L.                              | 3           | 3           | 3.9         | 3.9         | 5.1         | 5.1         | 6.8         | 6.8         |
| Horsepower                             | 1/15        | 1/15        | 1/12        | 1/12        | 1/10        | 1/10        | 1/10        | 1/10        |
| <b>A I R F L O W D A T A :</b>         |             |             |             |             |             |             |             |             |
| Indoor CFM                             | 250         | 250         | 300         | 300         | 325         | 325         | 350         | 350         |
| Vent CFM                               | 60          | 60          | 60          | 60          | 70          | 70          | 70          | 70          |
| <b>P H Y S I C A L D A T A :</b>       |             |             |             |             |             |             |             |             |
| Dimensions (HxWxD) (In.)               | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 |
| Net Weight                             | 105         | 105         | 112         | 112         | 120         | 120         | 125         | 125         |
| Shipping Weight                        | 123         | 123         | 130         | 130         | 138         | 138         | 143         | 143         |
| R-22 Charge                            | 27          | 27          | 32          | 32          | 31          | 31          | 34          | 34          |

## PH Series Chassis Specifications

| M O D E L S :                          | PH07K       | PH07R       | PH09K       | PH09R       | PH12K       | PH12R       | PH15K       | PH15R       |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>P E R F O R M A N C E D A T A :</b> |             |             |             |             |             |             |             |             |
| Cooling Btuh.                          | 7200/7000   | 7200        | 9100/8900   | 9100        | 12000/11800 | 12000       | 14700/14500 | 14700       |
| Cooling Power (W)                      | 595/579     | 595         | 805/788     | 805         | 1121/1103   | 1121        | 1581/1559   | 1581        |
| EER                                    | 12.1        | 12.1        | 11.3        | 11.3        | 10.7        | 10.7        | 9.3         | 9.3         |
| Heating Btuh                           | 6400/6200   | 6400        | 8100/7900   | 8100        | 10800/10600 | 10800       | 13500/13300 | 13500       |
| COP                                    | 3.3         | 3.3         | 3.2         | 3.2         | 3.1         | 3.1         | 2.8         | 2.8         |
| Dehumidification (Pts/h)               | 2.1         | 2.1         | 2.7         | 2.7         | 3.8         | 3.8         | 5.5         | 5.5         |
| Sensible Heat Ratio                    | 0.76        | 0.76        | 0.75        | 0.75        | 0.72        | 0.72        | 0.72        | 0.72        |
| <b>E L E C T R I C A L D A T A :</b>   |             |             |             |             |             |             |             |             |
| Voltage (1 Ph, 60Hz)                   | 230/208     | 265         | 230/208     | 265         | 230/208     | 265         | 230/208     | 265         |
| Voltage Range                          | 253-198     | 292-239     | 253-198     | 292-239     | 253-198     | 292-239     | 253-198     | 292-239     |
| Current (Amps) (A)                     | 3.0         | 3.0         | 3.9         | 3.9         | 5.1         | 5.1         | 6.6         | 6.6         |
| Power Factor                           | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         | 0.9         |
| Amps L.R                               | 18          | 18          | 22.2        | 22.2        | 26.3        | 26.3        | 38          | 38          |
| Amps F.L.                              | 3           | 3           | 3.9         | 3.9         | 5.1         | 5.1         | 6.8         | 6.8         |
| Horsepower                             | 1/15        | 1/15        | 1/12        | 1/12        | 1/10        | 1/10        | 1/10        | 1/10        |
| <b>A I R F L O W D A T A :</b>         |             |             |             |             |             |             |             |             |
| Indoor CFM                             | 250         | 250         | 300         | 300         | 325         | 325         | 350         | 350         |
| Vent CFM                               | 60          | 60          | 60          | 60          | 70          | 70          | 70          | 70          |
| <b>P H Y S I C A L D A T A :</b>       |             |             |             |             |             |             |             |             |
| Dimensions (HxWxD) (In.)               | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 | 16x42x13.75 |
| Net Weight                             | 105         | 105         | 112         | 112         | 120         | 120         | 125         | 125         |
| Shipping Weight                        | 123         | 123         | 130         | 130         | 138         | 138         | 143         | 143         |
| R-22 Charge                            | 27          | 27          | 30          | 30          | 28          | 28          | 41          | 41          |

| 250 V Receptacles and Fuse Types |   |   |   |
|----------------------------------|---|---|---|
| AMPS                             | 15  | 20  | 30  |
| HEATER SIZE                      | 0, 2.5 kW   | 3.4 kW  | 5.0 kW  |
| RECEPTACLE                       |  |  |  |



### Extended Cooling Performance, PE07/09/12/15

|      |       | Outdoor Dry Bulb Temp. (°F at 40% R.H.) |       |       |       |       |       |       |              |       |       |       |       |       |       |       |
|------|-------|---|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|
|      |       | 75                                      |       |       | 85    |       |       | 95    |              |       | 105   |       |       | 115   |       |       |
|      |       | Indoor Wet Bulb Temp. (°F at 80°F D.B.) |       |       |       |       |       |       |              |       |       |       |       |       |       |       |
|      |       | 72                                      | 67    | 62    | 72    | 67    | 62    | 72    | 67           | 62    | 72    | 67    | 62    | 72    | 67    | 62    |
| PE07 | Btuh  | 8820                                    | 8483  | 7853  | 8400  | 7920  | 7305  | 8070  | <b>7500</b>  | 6638  | 7560  | 6713  | 5918  | 6728  | 5790  | 5115  |
|      | Watts | 502                                     | 510   | 515   | 547   | 552   | 559   | 615   | <b>615</b>   | 615   | 665   | 664   | 666   | 725   | 725   | 728   |
|      | Amps  | 2.5                                     | 2.5   | 2.5   | 2.7   | 2.7   | 2.7   | 3     | <b>3.00</b>  | 3     | 3.2   | 3.2   | 3.2   | 3.5   | 3.5   | 3.5   |
|      | SHR   | 0.52                                    | 0.71  | 0.95  | 0.53  | 0.73  | 0.97  | 0.53  | <b>0.76</b>  | 0.98  | 0.55  | 0.8   | 0.98  | 0.57  | 0.86  | 0.97  |
| PE09 | Btuh  | 10819                                   | 10405 | 9632  | 10304 | 9715  | 8961  | 9899  | <b>9200</b>  | 8142  | 9274  | 8234  | 7259  | 8252  | 7102  | 6274  |
|      | Watts | 664                                     | 675   | 682   | 724   | 731   | 740   | 814   | <b>814</b>   | 814   | 880   | 879   | 882   | 960   | 960   | 964   |
|      | Amps  | 3.2                                     | 3.2   | 3.3   | 3.5   | 3.5   | 3.5   | 3.9   | <b>3.90</b>  | 3.9   | 4.2   | 4.2   | 4.2   | 4.6   | 4.6   | 4.6   |
|      | SHR   | 0.51                                    | 0.70  | 0.94  | 0.52  | 0.72  | 0.96  | 0.53  | <b>0.75</b>  | 0.96  | 0.54  | 0.79  | 0.97  | 0.57  | 0.84  | 0.96  |
| PE12 | Btuh  | 14112                                   | 13572 | 12564 | 13440 | 12672 | 11688 | 12912 | <b>12000</b> | 10620 | 12096 | 10740 | 9468  | 10764 | 9264  | 8184  |
|      | Watts | 915                                     | 929   | 939   | 997   | 1007  | 1019  | 1121  | <b>1091</b>  | 1121  | 1212  | 1211  | 1214  | 1322  | 1322  | 1327  |
|      | Amps  | 4.2                                     | 4.2   | 4.3   | 4.5   | 4.6   | 4.6   | 5.1   | <b>5.10</b>  | 5.1   | 5.5   | 5.5   | 5.5   | 6     | 6     | 6     |
|      | SHR   | 0.49                                    | 0.67  | 0.9   | 0.5   | 0.7   | 0.92  | 0.51  | <b>0.72</b>  | 0.92  | 0.52  | 0.76  | 0.93  | 0.54  | 0.81  | 0.92  |
| PE15 | Btuh  | 17640                                   | 16965 | 15705 | 16800 | 15840 | 14610 | 16140 | <b>15000</b> | 13275 | 15120 | 13425 | 11835 | 13455 | 11580 | 10230 |
|      | Watts | 1288                                    | 1309  | 1323  | 1404  | 1418  | 1435  | 1579  | <b>1579</b>  | 1579  | 1707  | 1705  | 1710  | 1862  | 1862  | 1870  |
|      | Amps  | 5.5                                     | 5.5   | 5.6   | 5.9   | 5.9   | 5.9   | 6.6   | <b>6.60</b>  | 6.6   | 7.1   | 7.1   | 7.1   | 7.7   | 7.7   | 7.8   |
|      | SHR   | 0.51                                    | 0.70  | 0.94  | 0.52  | 0.72  | 0.96  | 0.53  | <b>0.72</b>  | 0.96  | 0.54  | 0.79  | 0.97  | 0.57  | 0.84  | 0.96  |

**RATING POINT**  
ARI 310/380

### Extended Cooling Performance, PH07/09/12/15

|      |       | Outdoor Dry Bulb Temp. (°F at 40% R.H.) |       |       |       |       |       |       |              |       |       |       |       |       |       |       |
|------|-------|---|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|
|      |       | 75                                      |       |       | 85    |       |       | 95    |              |       | 105   |       |       | 115   |       |       |
|      |       | Indoor Wet Bulb Temp. (°F at 80°F D.B.) |       |       |       |       |       |       |              |       |       |       |       |       |       |       |
|      |       | 72                                      | 67    | 62    | 72    | 67    | 62    | 72    | 67           | 62    | 72    | 67    | 62    | 72    | 67    | 62    |
| PH07 | Btuh  | 8820                                    | 8483  | 7853  | 8400  | 7920  | 7305  | 8070  | <b>7200</b>  | 6638  | 7560  | 6713  | 5918  | 6728  | 5790  | 5115  |
|      | Watts | 502                                     | 510   | 515   | 547   | 552   | 559   | 615   | <b>595</b>   | 615   | 665   | 664   | 666   | 725   | 725   | 728   |
|      | Amps  | 2.5                                     | 2.5   | 2.5   | 2.7   | 2.7   | 2.7   | 3     | <b>3.00</b>  | 3     | 3.2   | 3.2   | 3.2   | 3.5   | 3.5   | 3.5   |
|      | SHR   | 0.52                                    | 0.71  | 0.95  | 0.53  | 0.73  | 0.97  | 0.53  | <b>0.76</b>  | 0.98  | 0.55  | 0.8   | 0.98  | 0.57  | 0.86  | 0.97  |
| PH09 | Btuh  | 10819                                   | 10405 | 9632  | 10304 | 9715  | 8961  | 9899  | <b>9100</b>  | 8142  | 9274  | 8234  | 7259  | 8252  | 7102  | 6274  |
|      | Watts | 657                                     | 667   | 675   | 716   | 723   | 732   | 805   | <b>805</b>   | 805   | 870   | 869   | 872   | 949   | 949   | 953   |
|      | Amps  | 3.2                                     | 3.2   | 3.3   | 3.5   | 3.5   | 3.5   | 3.9   | <b>3.90</b>  | 3.9   | 4.2   | 4.2   | 4.2   | 4.6   | 4.6   | 4.6   |
|      | SHR   | 0.51                                    | 0.7   | 0.94  | 0.52  | 0.72  | 0.96  | 0.53  | <b>0.75</b>  | 0.96  | 0.54  | 0.79  | 0.97  | 0.57  | 0.84  | 0.96  |
| PH12 | Btuh  | 14112                                   | 13572 | 12564 | 13440 | 12672 | 11688 | 12912 | <b>12000</b> | 10620 | 12096 | 10740 | 9468  | 10764 | 9264  | 8184  |
|      | Watts | 915                                     | 929   | 939   | 997   | 1007  | 1019  | 1121  | <b>1121</b>  | 1121  | 1212  | 1211  | 1214  | 1322  | 1322  | 1327  |
|      | Amps  | 4.2                                     | 4.2   | 4.3   | 4.5   | 4.6   | 4.6   | 5.1   | <b>5.10</b>  | 5.1   | 5.5   | 5.5   | 5.5   | 6     | 6     | 6     |
|      | SHR   | 0.49                                    | 0.67  | 0.9   | 0.5   | 0.7   | 0.92  | 0.51  | <b>0.72</b>  | 0.92  | 0.52  | 0.76  | 0.93  | 0.54  | 0.81  | 0.92  |
| PH15 | Btuh  | 17640                                   | 16965 | 15705 | 16800 | 15840 | 14610 | 16140 | <b>14700</b> | 13275 | 15120 | 13425 | 11835 | 13455 | 11580 | 10230 |
|      | Watts | 1288                                    | 1309  | 1323  | 1404  | 1418  | 1435  | 1579  | <b>1581</b>  | 1579  | 1707  | 1705  | 1710  | 1862  | 1862  | 1870  |
|      | Amps  | 5.5                                     | 5.5   | 5.6   | 5.9   | 5.9   | 5.9   | 6.6   | <b>6.6</b>   | 6.6   | 7.1   | 7.1   | 7.1   | 7.7   | 7.7   | 7.8   |
|      | SHR   | 0.51                                    | 0.70  | 0.94  | 0.52  | 0.72  | 0.96  | 0.53  | <b>0.72</b>  | 0.96  | 0.54  | 0.79  | 0.97  | 0.57  | 0.84  | 0.96  |

**RATING POINT**  
ARI 310/380

### Extended Heating Performance

|      |       | Outdoor Dry Bulb Temp. (°F) |       |       |       |       |
|------|-------|-----------------------------|-------|-------|-------|-------|
|      |       | 37                          | 42    | 47    | 52    | 57    |
| PH07 | Btuh  | 5366                        | 5663  | 6400  | 7053  | 7789  |
|      | Watts | 536                         | 545   | 568   | 577   | 610   |
|      | Amps  | 2.5                         | 2.6   | 2.6   | 2.7   | 2.8   |
| PH09 | Btuh  | 6005                        | 6399  | 8100  | 8647  | 9245  |
|      | Watts | 666                         | 676   | 742   | 747   | 757   |
|      | Amps  | 3.1                         | 3.1   | 3.2   | 3.2   | 3.3   |
| PH12 | Btuh  | 7799                        | 8611  | 10800 | 11383 | 12349 |
|      | Watts | 893                         | 927   | 1021  | 1051  | 1085  |
|      | Amps  | 3.8                         | 3.9   | 4.3   | 4.5   | 4.7   |
| PH15 | Btuh  | 10688                       | 11013 | 13500 | 14769 | 16180 |
|      | Watts | 1301                        | 1318  | 1413  | 1497  | 1564  |
|      | Amps  | 5.3                         | 5.4   | 5.8   | 6.1   | 6.3   |

**RATING POINT**  
ARI 310/380

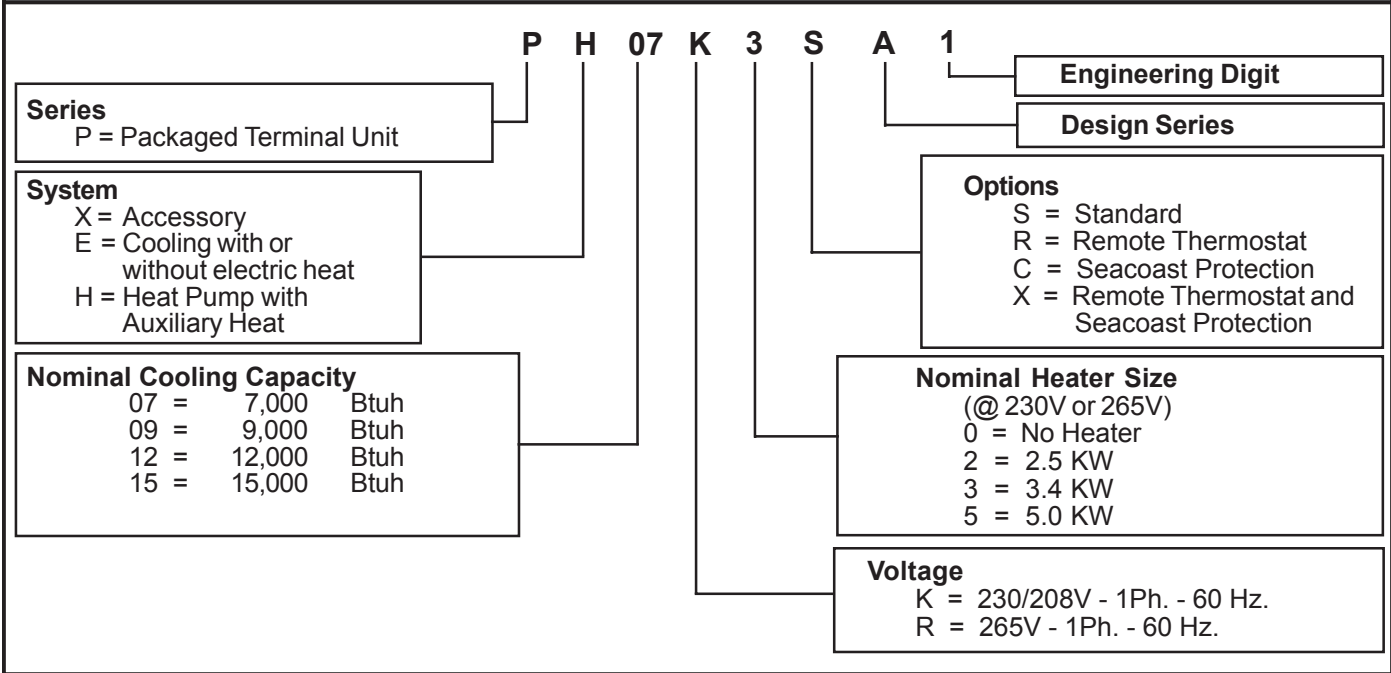
## Electric Heat Data, PE/PH 07/09K/R

| M O D E L S :                     | PE/PH07K  |            | PE/PH07R |       | PE/PH09K  |            |             | PE/PH09R |       |       |
|-----------------------------------|-----------|------------|----------|-------|-----------|------------|-------------|----------|-------|-------|
| P E R F O R M A N C E   D A T A : |           |            |          |       |           |            |             |          |       |       |
| Heater Watts                      | 2500/2050 | 3400/2780  | 2500     | 3400  | 2500/2050 | 3400/2780  | 5000/4090   | 2500     | 3400  | 5000  |
| Voltage                           | 230/208   |            | 265      |       | 230/208   |            |             | 265      |       |       |
| Heating Btuh                      | 8500/7000 | 11600/9500 | 8500     | 11600 | 8500/7000 | 11600/9500 | 17000/13900 | 8500     | 11600 | 17000 |
| Heating Power (Watts)             | 2600/2150 | 3500/2880  | 2590     | 3490  | 2600/2150 | 3500/2880  | 5210/4300   | 2590     | 3490  | 5210  |
| Heating Current (Amps)            | 11.4/10.4 | 15.3/13.9  | 9.8      | 13.2  | 11.4/10.4 | 15.3/13.9  | 22.3/20.3   | 9.8      | 13.2  | 19.5  |
| Minimum Circuit Ampacity          | 14.1      | 19         | 12.2     | 16.4  | 14.1      | 19         | 27.8        | 12.2     | 16.4  | 24.2  |
| Branch Circuit Fuse (Amps)        | 15        | 20         | 15       | 20    | 15        | 20         | 30          | 15       | 20    | 30    |
| Nema Plug Face                    | 6-15      | 6-20       | N/A      |       | 6-15      | 6-20       | 6-30        | N/A      |       |       |

## Electric Heat Data, PE/PH 12/15K/R

| M O D E L S :                         | PE/PH12K  |            |             | PE/PH12R |       |       | PE/PH15K  |            |             | PE/PH15R |       |       |
|---------------------------------------|-----------|------------|-------------|----------|-------|-------|-----------|------------|-------------|----------|-------|-------|
| E L E C T R I C   H E A T   D A T A : |           |            |             |          |       |       |           |            |             |          |       |       |
| Heater Watts                          | 2500/2050 | 3400/2780  | 5000/4090   | 2500     | 3400  | 5000  | 2500/2050 | 3400/2780  | 5000/4090   | 2500     | 3400  | 5000  |
| Voltage                               | 230/208   |            |             | 265      |       |       | 230/208   |            |             | 265      |       |       |
| Heating Btuh                          | 8500/7000 | 11600/9500 | 17000/13900 | 8500     | 11600 | 17000 | 8500/7000 | 11600/9500 | 17000/13900 | 8500     | 11600 | 17000 |
| Heating Power (Watts)                 | 2600/2150 | 3500/2880  | 5210/4300   | 2590     | 3490  | 5210  | 2600/2150 | 3500/2880  | 5210/4300   | 2590     | 3490  | 5210  |
| Heating Current (Amps)                | 11.4/10.4 | 15.3/13.9  | 22.3/20.3   | 9.8      | 13.2  | 19.5  | 11.4/10.4 | 15.3/13.9  | 22.3/20.3   | 9.8      | 13.2  | 19.5  |
| Minimum Circuit Ampacity              | 14.1      | 19         | 27.8        | 12.2     | 16.4  | 24.2  | 14.1      | 19         | 27.8        | 12.2     | 16.4  | 24.2  |
| Branch Circuit Fuse (Amps)            | 15        | 20         | 30          | 15       | 20    | 30    | 15        | 20         | 30          | 15       | 20    | 30    |
| Nema Plug Face                        | 6-15      | 6-20       | 6-30        | N/A      |       |       | 6-15      | 6-20       | 6-30        | N/A      |       |       |

## WallMaster® PTAC/PTHP Model Identification Guide



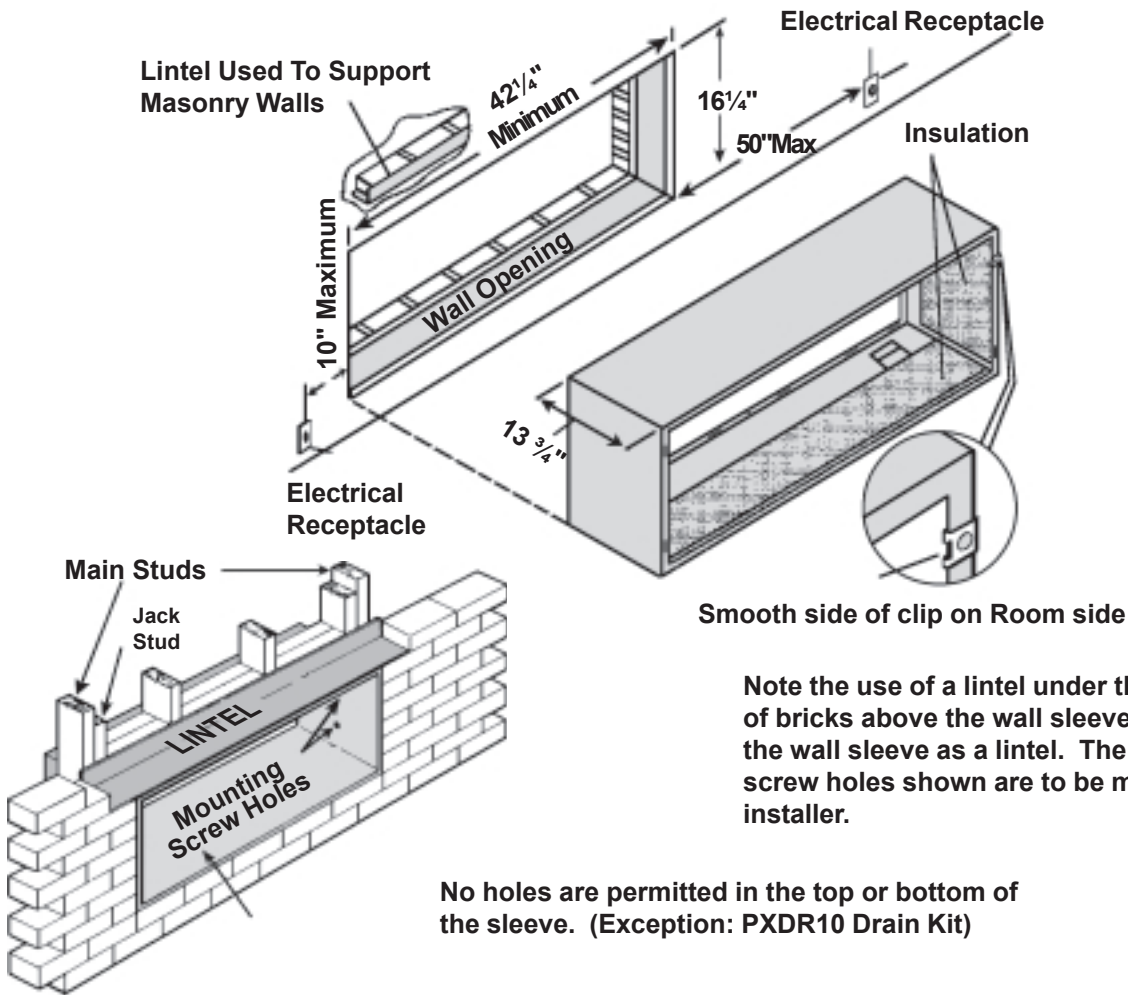
## Typical Unit Components and Dimensions

**PXWS Wall Sleeve**  
Dimensions:  
16" H x 42" W  
x 13<sup>3</sup>/<sub>4</sub>" D

**Front Cover**  
Dimensions:  
16" H x 42" W x 7<sup>1</sup>/<sub>2</sub>" D

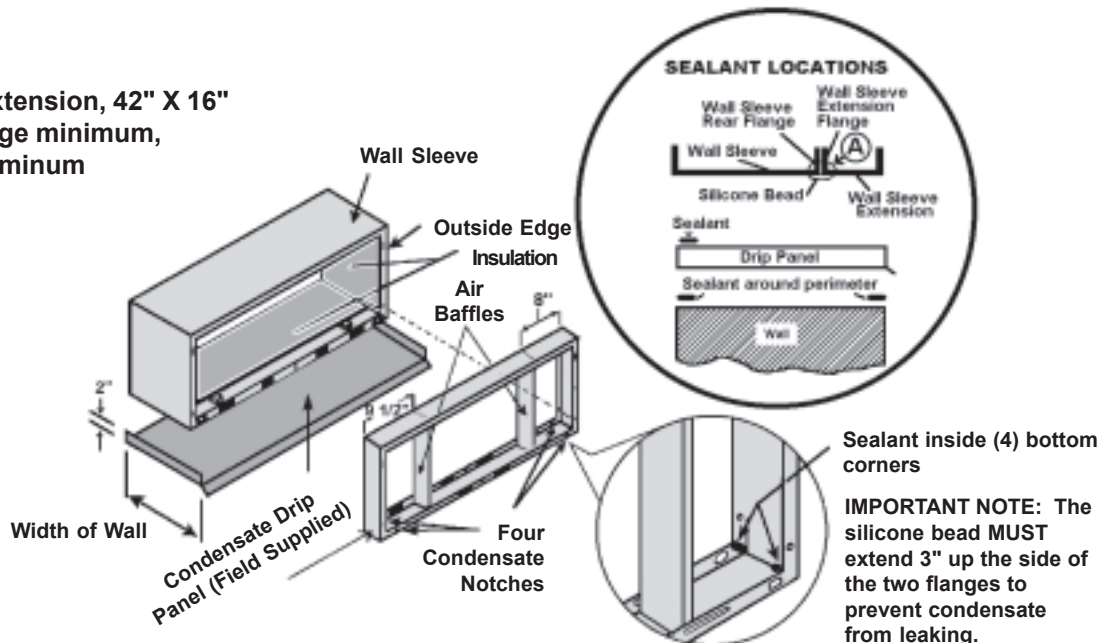
**Cut-Out Dimensions:**  
16<sup>1</sup>/<sub>4</sub>" x 42<sup>1</sup>/<sub>4</sub>"

## Typical Wall Sleeve Installation (PXWS)



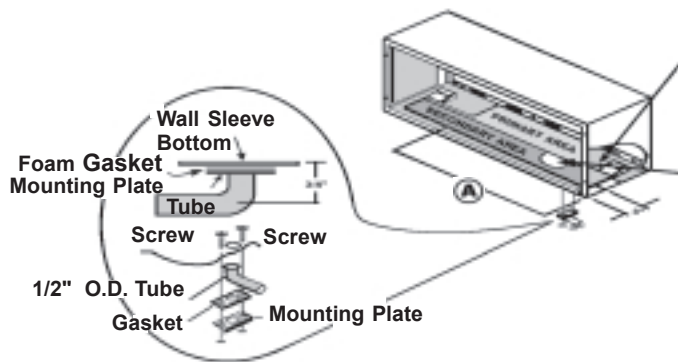
## Extended Wall Sleeve Installation and Sealant Locations (PXWE)

**Wall Sleeve Extension, 42" X 16"**  
**Frame, 20 gauge minimum,**  
**painted or aluminum**





## Internal Drain Kit Location and Installation (PXDR10)



**Primary Area:**  
Condensation from the chassis collects in the sleeve in this area. The Primary Area is the preferred installation location.

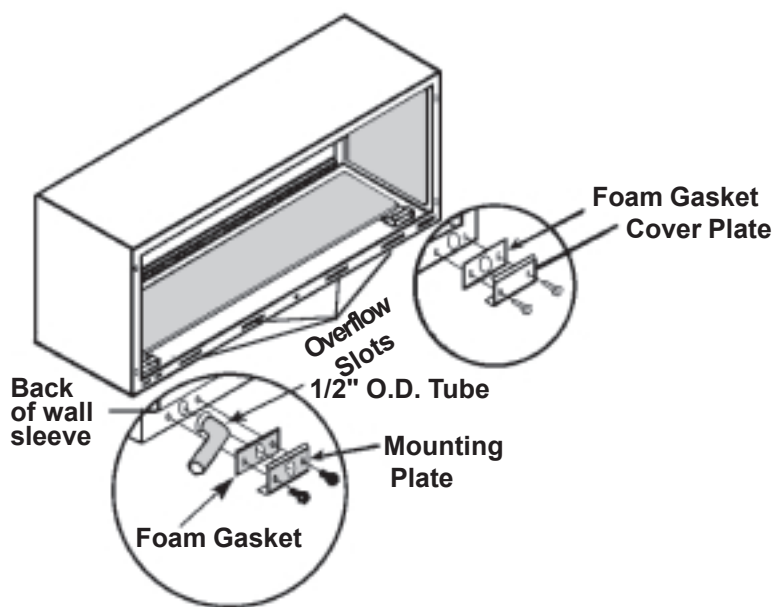


## External Drain

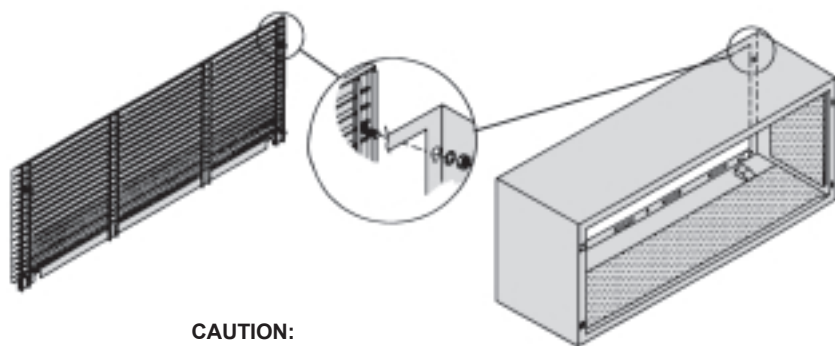
When using an external drain system, the condensate is removed through either of two drain holes on the back of the wall sleeve. Select the drain hole which best meets your drainage situation and install the drain kit. Seal off the other with a cover plate.

Place the drain tube through the gasket and the mounting plate with the flange toward the wall sleeve.

Attach the drain tube assembly to one of the two drain holes at the rear of the wall sleeve. The large flange on the mounting plate is positioned at the bottom of the sleeve facing toward the sleeve. When the drain tube is positioned at the desired angle, tighten the screws.



## Architectural Louver Installation (PXAA)



### CAUTION:

Bodily injury can be caused by louvers falling from a building during installation. It is recommended that a safety line be attached to the louver and an anchor point inside the building during installation.

### Installation

1. Screw a threaded metal stud into each of the holes at the four corners of the louver.
2. From inside the building, grasp the louver at the vertical supports and maneuver the louver through the wall sleeve. Pull towards you until the threaded studs are inserted into the four holes of the wall sleeve.
3. While holding the louver with one hand, start washers and nuts on each of the four studs. Tighten the nuts securely.

## WallMaster® PTAC/PTHP Engineering Specifications

All units shall be factory assembled, piped, wired and fully charged with R-22. All units shall be certified in accordance with ARI Standard 310 for air conditioners and ARI Standard 380 for heat pumps. Units shall be UL listed and carry a UL label. All units shall be factory run-tested to check operation and be Friedrich WallMaster® or equivalent.

The basic unit shall not exceed 16" high x 42" wide. Overall depth of the unit from the rear of the Friedrich wall sleeve to the front of the decorative front cover shall not exceed 21¼". The unit shall be designed so that room intrusion may be as little as 7¼". Installations in walls deeper than 13 ¼" may be accomplished with the use of a wall sleeve extension (PXWE). Unit shall draw in ambient air through both sides of an outdoor architectural louver or grille measuring 42" wide x 16" high and shall exhaust heated air out the middle portion of the louver. The architectural louver and wall sleeve shall be designed so that the louver may be installed from the inside of the building.

**REFRIGERATION SYSTEM** - The refrigeration system shall consist of a hermetically sealed rotary compressor that is externally mounted on vibration isolators no smaller than 1 ¾" dia. X 1 ½" high; condenser and evaporator coils constructed of copper tubes and aluminum plate fins; and capillaries as expansion devices. Unit shall have a fan slinger ring to increase efficiency and condensate disposal and have a drain pan capable of retaining 1½ gallons of condensate. A tertiary condensate removal system shall also be incorporated for back up and shall overflow through the wall sleeve and to the outside of the building as a safeguard against damage to the interior room.

**AIR HANDLING SECTION** - The evaporator and condenser fans shall be driven by a single, totally enclosed, ball bearing, permanently lubricated split capacitor, "clam-shell" style fan motor. Airflow shall be directed into the room by a single, injection molded, high-impact polystyrene discharge grille. The grill shall have openings no larger than 3/8" high x 3" wide to prevent personal injury or damage to the PTAC unit, and will be reversible to allow air to be directed upward or outward as determined by the installer.

The chassis shall have a built-in damper capable of providing at least 60 CFM of fresh air into the conditioned area. A fine mesh screen shall filter the incoming fresh air. There must be a provision for locking the damper closed to ensure a proper seal.

**CONTROLS** - Covered controls shall be accessible in a compartment at least 9" wide with the controls no deeper than 1¼" in the opening to facilitate easy operation of the unit. Controls shall include dual rotary knobs for setting of the thermostat and for mode control. The knobs will be tamper proof to prohibit the removal of knobs by the user and shall feature a temperature-limiting device adjustable by the owner. The control panel shall be clearly marked and easy to read. Universal symbols shall be used with markings no smaller than 12-point type. The chassis may be ordered with the option of remote thermostat control.

Other controls accessible without removal of the chassis shall include fan cycle switch, fresh air vent control and emergency heat override switch (heat pump only).

**GENERAL CONSTRUCTION** - The wall sleeve shall be constructed of 18 gauge G90 zinc-coated steel. It shall be prepared by a process where it is zinc phosphate pretreated and sealed with a chromate rinse, then powder coated for maximum coverage and protection. The sleeve shall be shipped with a protective weatherboard and a structural center support, and be insulated for thermal efficiency. The grille or louver shall be shipped separately and made from stamped or extruded anodized aluminum. All louvers shall be in the horizontal plane.

The front panel shall lock to the chassis by means of two factory-supplied thumbscrews to prevent tampering. The front panel will feature a contoured discharge with no sharp corners. The air filters shall be reusable and be accessible without removal of the front cover.


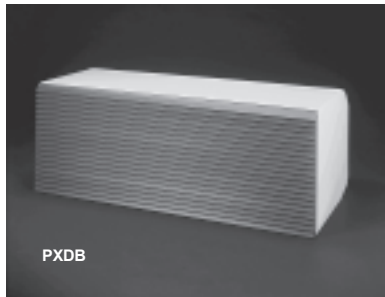
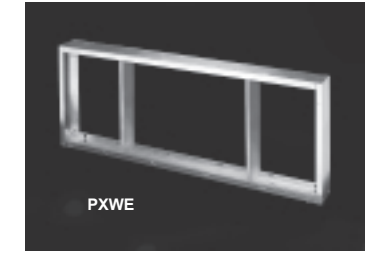
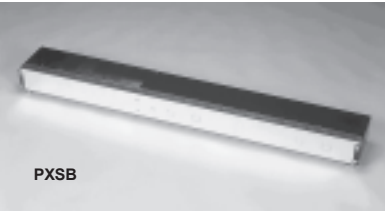

All 265V units shall possess an integral, over-current time-delay protective device.

The unit shall have a plastic fan, fan shroud and drain pan for corrosion protection and to help prevent rust on the side of the building below the outdoor louver.



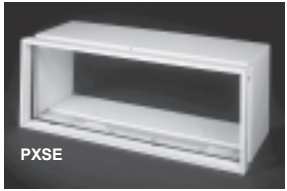
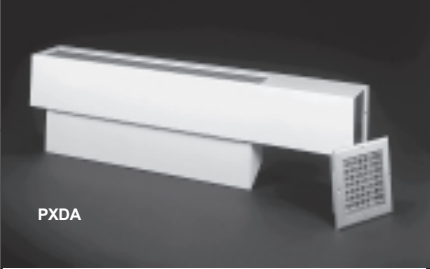

A complete line of accessories shall be available from Friedrich to equip the PTAC for a multitude of applications.

Friedrich Installation/Start-Up Specialists shall be available to answer questions regarding proper installation practices and in some cases for on-site start-up inspections.

# Friedrich PTAC Accessories

| New Construction Accessories              |   |   |
|---|---|---|
| MODEL NUMBER                              | DESCRIPTION   | PHOTO   |
| <b>PXWS</b>                               | <b>WALL SLEEVE</b> G-90 zinc coated steel is prepared in an eleven-step process, then powder coated for maximum coverage and protection. The wall sleeve is insulated for thermal efficiency. 16" High x 42" Wide x 13 <sup>3</sup> / <sub>4</sub> " Deep.  | <br>PXWS   |
| <b>PXGA</b>                               | <b>GRILLE</b> Standard, stamped aluminum, anodized to resist chalking and oxidation.  | <br>PXDB   |
| <b>PXAA</b><br><b>PXDB</b><br><b>PXSC</b> | <b>ARCHITECTURAL GRILLES</b> Consist of heavy-gauge 6063-T5 aluminum alloy:<br><ul style="list-style-type: none"> <li>- Clear, extruded aluminum</li> <li>- Dark bronze acrylic enamel</li> <li>- Also available in custom colors.</li> </ul>   |   |
| <b>PXDR10</b>                             | <b>CONDENSATE DRAIN KIT</b> Attaches to the bottom of the wall sleeve for internal draining of condensate or to the rear wall sleeve flange for external draining. Recommended on all units to remove excess condensate. Packaged in quantities of ten.   |   |
| <b>PXWE</b>                               | <b>DEEP WALL SLEEVE EXTENSION</b> A four inch deep anodized aluminum extension that attaches to the outside of the wall sleeve when the wall is greater than thirteen inches thick (11 <sup>3</sup> / <sub>4</sub> " when a subbase is used, 12 <sup>1</sup> / <sub>4</sub> " when a lateral duct is used). | <br>PXWE |
| <b>PXSB</b>                               | <b>DECORATIVE SUBBASE</b> Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels and mounting brackets for electrical accessories. Accepts circuit breaker, power disconnect switch, or conduit kit.  | <br>PXSB |
| <b>PXCJ</b>                               | <b>CONDUIT KIT WITH JUNCTION BOX</b> Hard wire conduit kit with junction box for 208/230V and 256V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.<br>*Required for 265V installations.   | <br>PXCJ |



| New Construction Accessories (Continued) |   |   |
|--|---|---|
| MODEL NUMBER                             | DESCRIPTION   | PHOTO   |
| <b>PXDC</b>                              | <b>DESK CONTROL KIT</b> A field installed kit which allows the unit to be turned on or off from a remote central station via a 24V interface. This kit is compatible with all chassis models.   | <br>PXDC   |
| <b>RT1</b>                               | <b>DIGITAL REMOTE THERMOSTAT</b> A Honeywell wall mounted remote thermostat. Compatible only with "RT" suffix chassis.  | <br>RT1    |
| Additional Accessories                   |   |   |
| MODEL NUMBER                             | DESCRIPTION   | PHOTO   |
| <b>PXSE</b>                              | <b>SLEEVE EXTENSION RETROFIT KIT</b> G-90 zinc coated steel, 2¼" sleeve extension attached to the room side of the sleeve to allow for the installation of a P-Series Friedrich PTAC in a T-Series sleeve.  | <br>PXSE   |
| <b>PXDA</b>                              | <b>LATERAL DUCT ADAPTER</b> Attaches to the PTAC/PTHP unit and provides a transition to direct up to 35% of the total CFM to a secondary room, either left or right of the unit. Kit includes duct plenum with discharge grille and internal baffle, adapter and end cap. | <br>PXDA |
| <b>PXDE</b>                              | <b>LATERAL DUCT EXTENSION</b> A three foot insulated plenum that attaches to the left or right side of the duct adapter. The extension can be cut to length by the installer. Maximum allowable straight extension is fifteen feet.                                       |   |
| <b>PXFT</b>                              | <b>REPLACEMENT FILTER PACK</b> These are original equipment return air filters. They are reusable and can be cleaned by vacuuming, washing, or blowing out, and are sold in convenient ten packs. (Two filters per chassis).  | <br>PXFT |
| Chassis Options                          |   |   |
| ITEM                                     | DESCRIPTION   |   |
| <b>S</b>                                 | <b>STANDARD UNIT</b> Standard PTAC/PCHP chassis. Can be 230/208V or 265V, electric or heat pump.  |   |
| <b>R</b>                                 | <b>REMOTE THERMOSTAT</b> Chassis option necessary for wall mounted thermostat control of the unit.  |   |
| <b>C</b>                                 | <b>SEACOAST PROTECTION</b> Additional protection for PTAC/PTHP units in a coastal or corrosive environment. The entire outdoor coil is submerged in a specially formulated enamel coating, then oven-cured for a tough, corrosion-resistant finish.                       |   |

# Friedrich WallMaster® P-Series Packaged Terminal Air Conditioners Limited Warranty

## Friedrich®

FRIEDRICH AIR CONDITIONING CO.

Post Office Box 1540 · San Antonio, Texas 78295-1540

(210) 357-4400 · FAX (210) 357-4480

**SAVE THIS CERTIFICATE.** It gives you specific rights, you may also have other rights which may vary from state to state and province to province.

In the event that your unit needs servicing, contact your nearest authorized service center. If you do not know the nearest service center, ask the company that installed your unit or contact us - see address and telephone number above.

**When requesting service:** please have the model and serial number from your unit readily available.

**Unless specified otherwise herein,** the following applies:

### PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS

**LIMITED WARRANTY - FIRST YEAR (Eighteen (18) Months from the original date of purchase or twelve (12) months from installation).** Any defect in the unit's material or workmanship will be repaired or replaced free of charge by our authorized service center during the normal working hours; and

**LIMITED WARRANTY - SECOND THROUGH FIFTH YEAR (Sixty-six (66) months from the date of purchase) ON THE SEALED REFRIGERATION SYSTEM.** Any part of the sealed refrigeration system on the P-series that is defective in material or workmanship will be repaired or replaced free of charge (excluding freight charges) by our authorized service center during normal working hours. The sealed refrigeration system consists of the compressor, metering device, evaporator, condenser, reversing valve, check valve, and the interconnecting tubing.

**These warranties apply only while the unit remains at the original site and only to units installed inside the continental United States, Alaska, Hawaii, Puerto Rico and Canada. The warranty applies only if the unit is installed and operated in accordance with the printed instructions and in compliance with applicable local installation and building codes and good trade practices.**

**For international warranty information, contact the Friedrich Air Conditioning Company - International Division.**

Reasonable proof must be presented to establish the original purchase date, otherwise the beginning date of this certificate will be considered to be our shipment date plus sixty days. Replacement parts can be new or remanufactured. Replacement parts and labor are only warranted for any unused portion of the unit's warranty.

We will not be responsible for and the user will pay for:

1. Service calls to:
  - A) Instruct on unit operation. B) Replace house fuses or correct house wiring. C) Clean or replace air filters. D) Remove the unit from inaccessible locations. E) Correct improper installations.
2. Parts or labor provided by anyone other than an authorized service center.
3. Damage caused by:
  - A) Accident, abuse, negligence, misuse, riot, fire, flood, or acts of God. B) Operating the unit where there is a corrosive atmosphere containing chlorine, fluorine, or any damaging chemicals (other than in a normal residential environment). C) Unauthorized alteration or repair of the unit, which in turn affects its stability or performance. D) Failing to provide proper maintenance and service. E) Using other than a "Seacoast Protected" unit in a coastal environment. F) Using an incorrect power source. G) Faulty installation or application of the unit.

**We shall not be liable for any incidental, consequential, or special damages or expenses in connection with any use or failure of this unit. We have not made and do not make any representation or warranty of fitness for a particular use or purpose and there is no implied condition of fitness for a particular use or purpose. We make no expressed warranties except as stated in this certificate. No one is authorized to change this certificate or to create for us any other obligation or liability in connection with this unit. Any implied warranties shall last for one year after the original purchase date. Some states and provinces do not allow limitations on how long an implied warranty or condition lasts, so the above limitations or exclusions may not apply to you. The provisions of this warranty are in addition to and not a modification of or subtraction from the statutory warranties and other rights and remedies provided by law.**

**In case of any questions regarding the provisions of this warranty, the English version will govern.**

Revised 8/01

|               |               |                |
|---------------|---------------|----------------|
| Purchaser:    | P.O. #        | Date:          |
| Project:      | Location:     |                |
| Engineer:     | Architect:    |                |
| Submitted By: | For Approval: | For Reference: |

| ITEM | PLAN DESIGNATION | QUANTITY | COOLING BTU/H | VOLTAGE | FRIEDRICH MODEL |
|------|------------------|----------|---------------|---------|-----------------|
|      |                  |          |               |         |                 |
|      |                  |          |               |         |                 |
|      |                  |          |               |         |                 |

### ACCESSORIES

|      |   |     |        |                               |     |
|------|---|-----|--------|-------------------------------|-----|
| PXWS | Wall Sleeve                                       | Qty | PXDR10 | Condensate Drain Kit (pkg/10) | Qty |
| PXWE | Deep Wall Extension                               | Qty | PXSB   | Subbase                       | Qty |
| PXGA | Standard Outdoor Louver                           | Qty | PXDS   | Power Disconnect Switch       | Qty |
| PXAA | Architectural Louver, clear                       | Qty | PXCJ   | Conduit Kit w/Junction Box    | Qty |
| PXDB | Architectural Louver, dark bronze                 | Qty | PXSE   | T-Series Sleeve Adapter       | Qty |
| PXSC | Architectural Louver, color matched               | Qty | PXDA   | Lateral Duct Adapter          | Qty |
| RT1  | Electronic Digital Remote Wall Mounted Thermostat | Qty | PXDE   | Lateral Duct Extension        | Qty |
|      |   |     | PXDC   | Desk Control Relay            | Qty |

### FEATURES



- Ultraquiet operation
- Super high energy efficiency, up to 12.2 EER
- Easy to use controls feature tamper-proof knobs
- Built-in fresh air damper provides up to 70 CFM
- Two cooling and heating speeds plus fan-only setting
- Front cover fastens to chassis easily with thumbscrews hidden from user
- Thermostat limiter switch
- Emergency heat switch (heat pump models)
- Easy access, easy-to-clean filter
- Made in the U.S.A.
- UL Listed and ARI Certified

### DIMENSIONS

|       | Wall Sleeve |       | Overall Depth     |
|-------|-------------|-------|-------------------|
| Width | Height      | Depth | Sleeve with Front |
| 42"   | 16"         | 13¾"  | 21¼"              |

Wall Opening - 42¼" wide x 16¼" high

NOTES:

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**Friedrich®**

**Multiple solutions.**

**One trusted name.**



Friedrich Air Conditioning Co.

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