

## Engineering Data—PEERVENT Heating and Ventilating Units

| Unit No. | Maximum No. of Pupils | C.f.m. Delivered | Entering Air -10°     |                            |                               |                 |       | Entering Air 0°       |                            |                               |       |       | Entering Air +10°     |                            |                               |   |   |
|----------|-----------------------|------------------|-----------------------|----------------------------|-------------------------------|-----------------|-------|-----------------------|----------------------------|-------------------------------|-------|-------|-----------------------|----------------------------|-------------------------------|---|---|
|          |                       |                  | Final Discharge Temp. | Condensation, Lb. per Hour | B.t.u. Value (see note below) |                 |       | Final Discharge Temp. | Condensation, Lb. per Hour | B.t.u. Value (see note below) |       |       | Final Discharge Temp. | Condensation, Lb. per Hour | B.t.u. Value (see note below) |   |   |
|          |                       |                  |                       |                            | 1                             | 2               | 3     |                       |                            | 1                             | 2     | 3     |                       |                            | 1                             | 2 | 3 |
| 36331    | 13                    | 400              | 118.7                 | 67.6                       | 65500                         | 25000           | 125   | 64.3                  | 62400                      | 27500                         | 131.2 | 63.8  | 61700                 | 32400                      |                               |   |   |
| 36332    | 16                    | 500              | 113.7                 | 81.2                       | 78600                         | 27700           | 120   | 77.3                  | 74900                      | 31200                         | 126.2 | 73.5  | 71100                 | 34400                      |                               |   |   |
| 36333    | 20                    | 600              | 106.7                 | 91.7                       | 89000                         | 28000           | 113   | 87.2                  | 84500                      | 32100                         | 119.2 | 82.8  | 80100                 | 37100                      |                               |   |   |
| 36334    | 23                    | 700              | 100                   | 101                        | 97900                         | 26700           | 106.3 | 96                    | 92800                      | 31700                         | 112.5 | 89.7  | 87700                 | 36300                      |                               |   |   |
| 36335    | 26                    | 800              | 92.9                  | 108                        | 104600                        | 23200           | 99.2  | 99                    | 97800                      | 27900                         | 105.4 | 94.7  | 91700                 | 33000                      |                               |   |   |
| 36336    | 30                    | 900              | 80.7                  | 108                        | 104600                        | 13100           | 87.1  | 99                    | 97800                      | 19200                         | 93.3  | 94.7  | 91700                 | 25700                      |                               |   |   |
| 36337    | 33                    | 1000             | 72.1                  | 108                        | 104600                        | 2800            | 78.4  | 99                    | 97800                      | 10400                         | 84.6  | 94.7  | 91700                 | 18300                      |                               |   |   |
| 36338    | 35                    | 1050             |                       |                            |                               |                 | 72    | 99                    | 97800                      | 6100                          | 78.2  | 94.7  | 91700                 | 14600                      |                               |   |   |
|          |                       |                  |                       |                            | 15280                         | (61 Sq. Ft.)    |       |                       |                            |                               |       |       |                       |                            |                               |   |   |
| 36421    | 30                    | 900              | 94.5                  | 136.7                      | 132600                        | 41000           | 100.7 | 128.6                 | 124500                     | 45900                         | 106.9 | 120.5 | 116600                | 50200                      |                               |   |   |
| 36422    | 33                    | 1000             | 91                    | 136.7                      | 132600                        | 30800           | 97.2  | 128.6                 | 124500                     | 37100                         | 103.4 | 120.5 | 116600                | 43000                      |                               |   |   |
| 36423    | 35                    | 1050             | 87.5                  | 136.7                      | 132600                        | 25900           | 93.7  | 128.6                 | 124500                     | 32800                         | 99    | 120.5 | 116600                | 39400                      |                               |   |   |
| 36424    | 36                    | 1100             | 83.9                  | 136.7                      | 132600                        | 20700           | 90.2  | 128.6                 | 124500                     | 28500                         | 96.4  | 120.5 | 116600                | 35800                      |                               |   |   |
| 36425    | 38                    | 1150             | 80.4                  | 136.7                      | 132600                        | 15600           | 86.7  | 128.6                 | 124500                     | 24100                         | 93.1  | 120.5 | 116600                | 32200                      |                               |   |   |
| 36426    | 40                    | 1200             | 76.9                  | 136.7                      | 132600                        | 10600           | 83.2  | 128.6                 | 124500                     | 19700                         | 89.4  | 120.5 | 116600                | 28600                      |                               |   |   |
| 36427    | 41                    | 1250             | 73.4                  | 136.7                      | 132600                        | 5400            | 79.7  | 128.6                 | 124500                     | 15300                         | 85.9  | 120.5 | 116600                | 25000                      |                               |   |   |
| 36428    | 43                    | 1300             | 70                    | 136.7                      | 132600                        |                 | 76.2  | 128.6                 | 124500                     | 10900                         | 82.4  | 120.5 | 116600                | 21400                      |                               |   |   |
| 36429    | 45                    | 1350             | 66.4                  | 136.7                      | 132600                        |                 | 72.7  | 128.6                 | 124500                     | 6500                          | 78.9  | 120.5 | 116600                | 17800                      |                               |   |   |
|          |                       |                  |                       |                            | 19440                         | (77.25 Sq. Ft.) |       |                       |                            |                               |       |       |                       |                            |                               |   |   |
| 36511    | 40                    | 1200             | 95.4                  | 166.5                      | 161000                        | 38900           | 101.6 | 156                   | 150900                     | 46100                         | 107.8 | 145.7 | 141000                | 52900                      |                               |   |   |
| 36512    | 43                    | 1300             | 88.4                  | 166.5                      | 161000                        | 28800           | 94.6  | 156                   | 150900                     | 37400                         | 100.8 | 145.7 | 141000                | 45500                      |                               |   |   |
| 36513    | 45                    | 1350             | 84.9                  | 166.5                      | 161000                        | 23600           | 91.1  | 156                   | 150900                     | 33000                         | 97.3  | 145.7 | 141000                | 41900                      |                               |   |   |
| 36514    | 46                    | 1400             | 81.4                  | 166.5                      | 161000                        | 18500           | 87.6  | 156                   | 150900                     | 28600                         | 93.8  | 145.7 | 141000                | 38200                      |                               |   |   |
| 36515    | 48                    | 1450             | 77.9                  | 166.5                      | 161000                        | 13500           | 84.1  | 156                   | 150900                     | 24200                         | 90.3  | 145.7 | 141000                | 34500                      |                               |   |   |
| 36516    | 50                    | 1500             | 74.4                  | 166.5                      | 161000                        | 8400            | 80.6  | 156                   | 150900                     | 19800                         | 86.8  | 145.7 | 141000                | 30800                      |                               |   |   |
| 36517    | 51                    | 1550             | 70.9                  | 166.5                      | 161000                        | 3300            | 77.1  | 156                   | 150900                     | 15400                         | 83.3  | 145.7 | 141000                | 27200                      |                               |   |   |
| 36518    | 53                    | 1600             | 67.4                  | 166.5                      | 161000                        |                 | 73.6  | 156                   | 150900                     | 11000                         | 79.8  | 145.7 | 141000                | 23600                      |                               |   |   |
| 36519    | 57                    | 1700             | 60.4                  | 166.5                      | 161000                        |                 | 66.6  | 156                   | 150900                     |                               | 72.8  | 145.7 | 141000                | 16300                      |                               |   |   |
|          |                       |                  |                       |                            | 23610                         | (94.4 Sq. Ft.)  |       |                       |                            |                               |       |       |                       |                            |                               |   |   |

Note.—B.t.u. values are as follows:

1. With fans running.

2. With fans stopped.

3. B.t.u. available for heating purposes, over require-

ments for heating indicated c.f.m. to 70 deg.

Where values are not given, the discharge temperature is lower than we would recommend and we suggest the use of next larger size PeerVent.

| Unit No. | Maximum Number of Pupils | Maximum Cu. Ft. per Minute | Dimensions                |                            | Approximate Shipping Weight Lb. | Power Consumption in Watts | PIPING DATA                                |                                                |                       |               |                        |               |
|----------|--------------------------|----------------------------|---------------------------|----------------------------|---------------------------------|----------------------------|--------------------------------------------|------------------------------------------------|-----------------------|---------------|------------------------|---------------|
|          |                          |                            | Height Depth..... 36" 14" | Fresh Air Intake 8 1/2 x B |                                 |                            | Steam and Return—5/8 in. from Back of Unit |                                                |                       |               |                        |               |
|          |                          |                            |                           |                            |                                 |                            | Length Overall Outside                     | Height of Steam and Return Openings from Floor | Steam Size (see note) |               | Return Size (see note) |               |
|          |                          |                            |                           |                            |                                 |                            |                                            |                                                | Gravity System        | Vacuum System | Gravity System         | Vacuum System |
| L        | B                        |                            |                           |                            |                                 |                            |                                            |                                                |                       |               |                        |               |
| 36331    | 13                       | 400                        | 33 3/8"                   | 27 1/2"                    | 300                             | 27 3/4"                    | 1 1/2"                                     | 1 1/2"                                         | 1"                    | 3/4"          |                        |               |
| 36332    | 16                       | 500                        |                           |                            |                                 |                            | 1 1/2"                                     | 1 1/2"                                         |                       |               |                        |               |
| 36333    | 20                       | 600                        |                           |                            |                                 |                            | 1 1/2"                                     | 1 1/2"                                         |                       |               |                        |               |
| 36334    | 23                       | 700                        |                           |                            |                                 |                            | 1 1/2"                                     | 1 1/2"                                         |                       |               |                        |               |
| 36335    | 26                       | 800                        |                           |                            |                                 |                            | 1 1/2"                                     | 1 1/2"                                         |                       |               |                        |               |
| 36336    | 30                       | 900                        |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36337    | 33                       | 1000                       |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36338    | 35                       | 1050                       |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36421    | 30                       | 900                        | 42 3/8"                   | 36 1/2"                    | 350                             | 27 3/4"                    | 2"                                         | 1 1/2"                                         | 1"                    | 3/4"          |                        |               |
| 36422    | 33                       | 1000                       |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36423    | 35                       | 1050                       |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36424    | 36                       | 1100                       |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36425    | 38                       | 1150                       |                           |                            |                                 |                            | 2"                                         | 1 1/2"                                         |                       |               |                        |               |
| 36426    | 40                       | 1200                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36427    | 41                       | 1250                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36428    | 43                       | 1300                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36429    | 45                       | 1350                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36511    | 40                       | 1200                       | 51 3/8"                   | 45 1/2"                    | 400                             | 27 3/4"                    | 2"                                         | 2"                                             | 1"                    | 3/4"          |                        |               |
| 36512    | 43                       | 1300                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36513    | 45                       | 1350                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36514    | 46                       | 1400                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36515    | 48                       | 1450                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36516    | 50                       | 1500                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36517    | 51                       | 1550                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36518    | 53                       | 1600                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |
| 36519    | 57                       | 1700                       |                           |                            |                                 |                            | 2"                                         | 2"                                             |                       |               |                        |               |

Note.—PeerFin Radiators are tapped 2 in. for both steam and return connections but can be reduced to sizes given in table. Eccentric reducers must be used. PeerFin Radiators can be connected with either right or left hand steam supply.

## THERMIDAIRE

CORPORATION  
2441-45 CHARLOTTE STREET

KANSAS CITY, MO.



Thermidaire Unit Heaters are Quiet, Dependable and Efficient, and when equipped with Three Speed Motors are Unusually Quiet.

Made in either Floor or Ceiling Types using Propeller or Multi-Blade Fans, and can be had in the capacities as listed. Dimensions for these types can be obtained from any agent or from the main office.

Recirculating Ducts, Direct Fired Units, and Ventilating Fans.

Table below applies to the type unit illustrated.

Ratings Based on 5 lbs. Steam Pressure at the Heater

| Size | C.F.M.              | H.P. | Rm. T    | Disc. T     | B.t.u.                  | E.D.R.         | Height | Width  | Depth  | Supply | Return | Shipping Wt. |
|------|---------------------|------|----------|-------------|-------------------------|----------------|--------|--------|--------|--------|--------|--------------|
| 5    | 500 at 1140 r.p.m.  | 1/20 | 50 60 70 | 130 137 145 | 45,000 43,500 42,000    | 180 174 168    | 23 1/8 | 15 1/8 | 18     | 1 1/4  | 1      | 114          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 8    | 800 at 850 r.p.m.   | 1/12 | 50 60 70 | 135 141 145 | 76,800 72,000 67,200    | 304 288 269    | 26 1/8 | 17 1/8 | 18     | 2      | 1      | 137          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 10   | 1000 at 1140 r.p.m. | 1/10 | 50 60 70 | 131 136 141 | 90,000 84,000 78,000    | 360 336 312    | 30 1/8 | 24 1/8 | 18     | 2      | 1      | 176          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 15   | 1500 at 850 r.p.m.  | 1/8  | 50 60 70 | 135 140 145 | 143,600 134,800 125,900 | 575 540 504    | 33 1/8 | 26 1/8 | 18     | 2 1/2  | 1 1/4  | 215          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 20   | 2000 at 1140 r.p.m. | 1/6  | 50 60 70 | 131 136 140 | 180,000 168,000 156,000 | 720 672 624    | 42 1/8 | 34 1/8 | 30 1/2 | 2 1/2  | 1 1/4  | 418          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 25   | 2500 at 850 r.p.m.  | 1/8  | 50 60 70 | 131 136 140 | 225,000 210,000 195,000 | 900 840 780    | 47 1/8 | 39 1/8 | 32 1/2 | 3      | 2      | 460          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 30   | 3000 at 1140 r.p.m. | 1/3  | 50 60 70 | 125 130 136 | 252,000 224,000 216,000 | 1000 896 854   | 51 1/8 | 43 1/8 | 32 1/2 | 3      | 2      | 500          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 40   | 4000 at 850 r.p.m.  | 1/4  | 50 60 70 | 131 136 141 | 360,000 336,000 312,000 | 1440 1344 1250 | 51 1/8 | 43 1/8 | 32 1/2 | 3      | 2      | 500          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 50   | 5000 at 850 r.p.m.  | 1/3  | 50 60 70 | 131 136 141 | 450,000 420,000 390,000 | 1800 1680 1560 | 51 1/8 | 43 1/8 | 32 1/2 | 3      | 2      | 500          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |
| 60   | 6000 at 690 r.p.m.  | 1/2  | 50 60 70 | 131 136 141 | 540,000 504,000 468,000 | 2160 2020 1870 | 51 1/8 | 43 1/8 | 32 1/2 | 3      | 2      | 500          |
|      |                     |      |          |             |                         |                |        |        |        |        |        |              |