



# ProDirect™ Series Air Handler

## PRODUCT SPECIFICATIONS



|                      |  |
|----------------------|--|
| <b>Model</b>         | HAH14018, HAH14024, HAH14030, HAH14036, HAH14042, HAH14048, HAH14060 |
| <b>Capacity</b>      | 18K-60K  |
| <b>SEER</b>          | 14   |
| <b>Speed</b>         | 3  |
| <b>Throttle Type</b> | TXV  |



### Features

- R410a environmentally friendly refrigerant
- Multi-Position installation (upflow, downflow, horizontal)
- Insulated & painted galvanized steel cabinet
- AHR Certified & ETL Listed
- Automatic Intelligent Defrost Programs
- 24V low voltage control
- Wide operation temperature range
- Detachable filter for cleaning or renewal
- 3-speed, direct-drive blower motor
- Pressure and temperature protection sensors
- “A” Shaped coils (copper tubing & enhanced aluminum fins)

| Performance               |         | Units | HAH14018    | HAH14024    | HAH14030      | HAH14036       | HAH14042       | HAH14048       | HAH14060       |
|---------------------------|---------|-------|-------------|-------------|---------------|----------------|----------------|----------------|----------------|
| Capacity                  | Btu/h   |       | 18000       | 24000       | 30000         | 34500          | 42000          | 48000          | 56500          |
| SEER                      | Btu/h.W |       | 14          | 14          | 14            | 14             | 14             | 14             | 14             |
| Indoor Airflow (Lo/Mi/Hi) | CFM     |       | 500/610/723 | 738/804/938 | 919/1060/1204 | 1161/1235/1376 | 1208/1385/1562 | 1434/1574/1695 | 1434/1574/1695 |
| Indoor Noise Level        | dB(A)   |       | 40          | 42          | 48            | 51             | 54             | 55             | 55             |
| External Static Pressure  | Pa      |       | 25          | 25          | 37            | 37             | 37             | 50             | 50             |

| Dimensions                  |     |  | HAH14018   | HAH14024   | HAH14030   | HAH14036   | HAH14042   | HAH14048   | HAH14060   |
|-----------------------------|-----|--|--|--|--|--|--|--|--|
| Unit (W x H x D)            | in  |  | 19 <sup>2</sup> / <sub>3</sub> x 45 <sup>3</sup> / <sub>4</sub> x 22                             | 19 <sup>2</sup> / <sub>3</sub> x 45 <sup>3</sup> / <sub>4</sub> x 22                             | 19 <sup>2</sup> / <sub>3</sub> x 45 <sup>3</sup> / <sub>4</sub> x 22                             | 19 <sup>2</sup> / <sub>3</sub> x 45 <sup>3</sup> / <sub>4</sub> x 22                             | 19 <sup>2</sup> / <sub>3</sub> x 45 <sup>3</sup> / <sub>4</sub> x 22                             | 22 x 53 <sup>1</sup> / <sub>8</sub> x 24                             | 22 x 53 <sup>1</sup> / <sub>8</sub> x 24                             |
|                             | mm  |  | 500 x 1162 x 560   | 500 x 1162 x 560   | 500 x 1162 x 560   | 500 x 1162 x 560   | 500 x 1162 x 560   | 560 x 1350 x 623   | 560 x 1350 x 623   |
| Packing                     | in  |  | 22 <sup>5</sup> / <sub>6</sub> x 47 <sup>5</sup> / <sub>8</sub> x 25 <sup>3</sup> / <sub>5</sub> | 22 <sup>5</sup> / <sub>6</sub> x 47 <sup>5</sup> / <sub>8</sub> x 25 <sup>3</sup> / <sub>5</sub> | 22 <sup>5</sup> / <sub>6</sub> x 47 <sup>5</sup> / <sub>8</sub> x 25 <sup>3</sup> / <sub>5</sub> | 22 <sup>5</sup> / <sub>6</sub> x 47 <sup>5</sup> / <sub>8</sub> x 25 <sup>3</sup> / <sub>5</sub> | 22 <sup>5</sup> / <sub>6</sub> x 47 <sup>5</sup> / <sub>8</sub> x 25 <sup>3</sup> / <sub>5</sub> | 28 x 54 <sup>3</sup> / <sub>4</sub> x 25 <sup>1</sup> / <sub>5</sub> | 28 x 54 <sup>3</sup> / <sub>4</sub> x 25 <sup>1</sup> / <sub>5</sub> |
|                             | mm  |  | 580 x 1210 x 650   | 580 x 1210 x 650   | 580 x 1210 x 650   | 580 x 1210 x 650   | 580 x 1210 x 650   | 710 x 1390 x 640   | 710 x 1390 x 640   |
| Weight (net/gross)          | lbs |  | 123/134  | 130/141  | 132/143  | 134/146  | 137/148  | 176/190  | 176/190  |
|                             | kg  |  | 56/61  | 59/64  | 60/65  | 61/66  | 62/67  | 80/86  | 80/86  |
| Shipping per STD 20/40/40HQ |     |  | 30/60/120  | 30/60/120  | 30/60/120  | 30/60/120  | 30/60/120  | 27/54/54   | 27/54/54   |

| Electrical           | Unit    | HAH14018         | HAH14024         | HAH14030         | HAH14036         | HAH14042         | HAH14048         | HAH14060         |
|----------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Outdoor Power Supply | V/Ph/Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz |

| Fan Motor        | Unit | HAH14018    | HAH14024    | HAH14030    | HAH14036    | HAH14042    | HAH14048    | HAH14060    |
|------------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Brand            |      | Kangbao     | Kangbao     | Kangbao     | Kangbao     | Kangbao     | Kangbao     | Kangbao     |
| Type             |      | AC          | AC          | AC          | AC          | AC          | AC          | AC          |
| Input            | W    | 180         | 206         | 288         | 398         | 463         | 578         | 578         |
| Output           | W    | 100         | 135         | 180         | 220         | 270         | 300         | 300         |
| Capacitor        | μF   | 6           | 6           | 6           | 10          | 10          | 12          | 12          |
| Speed (Lo/Mi/Hi) | rpm  | 340/390/440 | 490/530/570 | 530/600/670 | 690/730/805 | 610/723/839 | 820/870/920 | 820/870/920 |

| Blower Specs | Unit | HAH14018            | HAH14024            | HAH14030            | HAH14036            | HAH14042            | HAH14048            | HAH14060            |
|--------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Diameter     | in   | 12 <sup>5/16</sup>  | 12 <sup>5/16</sup>  | 12 <sup>5/16</sup>  | 12 <sup>5/16</sup>  | 12 <sup>5/16</sup>  | 12 <sup>5/16</sup>  | 12 <sup>5/16</sup>  |
| Width        | in   | 12 <sup>29/32</sup> | 12 <sup>29/32</sup> | 12 <sup>29/32</sup> | 12 <sup>29/32</sup> | 12 <sup>29/32</sup> | 12 <sup>29/32</sup> | 12 <sup>29/32</sup> |

| Coil                           | Unit | HAH14018  | HAH14024   | HAH14030   | HAH14036   | HAH14042   | HAH14048   | HAH14060   |
|--------------------------------|------|---|--|--|--|--|--|--|
| Number of Rows                 |      | 3(row) x 2(piece)   | 4(row) x 2(piece)  | 4(row) x 2(piece)  | 4(row) x 2(piece)  | 4(row) x 2(piece)  | 5(row) x 2(piece)  | 5(row) x 2(piece)  |
| Tube pitch (a) x row pitch (b) | in   | 0.83 x 0.53   | 0.83 x 0.53  | 0.83 x 0.53  | 0.83 x 0.53  | 0.83 x 0.53  | 0.83 x 0.53  | 0.83 x 0.53  |
| Fin Spacing                    | in   | 1/16  | 1/16   | 1/16   | 1/16   | 1/16   | 1/16   | 1/16   |
| Fin Material                   |      | Hydrophilic   | Hydrophilic  | Hydrophilic  | Hydrophilic  | Hydrophilic  | Hydrophilic  | Hydrophilic  |
| Tube Outside Diameter          | in   | 0.276   | 0.276  | 0.276  | 0.276  | 0.276  | 0.276  | 0.276  |
| Tube Material                  |      | inner grooved   | inner grooved  | inner grooved  | inner grooved  | inner grooved  | inner grooved  | inner grooved  |
| Coil (L x H x W)               | in   | 17 <sup>7/16</sup> x 14 <sup>7/8</sup> x 1 <sup>37/64</sup> | 17 <sup>7/16</sup> x 16 <sup>17/32</sup> x 2 <sup>7/64</sup> | 17 <sup>7/16</sup> x 16 <sup>17/32</sup> x 2 <sup>7/64</sup> | 17 <sup>7/16</sup> x 16 <sup>17/32</sup> x 2 <sup>7/64</sup> | 17 <sup>7/16</sup> x 16 <sup>17/32</sup> x 2 <sup>7/64</sup> | 19 <sup>27/32</sup> x 21 <sup>1/2</sup> x 2 <sup>5/8</sup> | 19 <sup>27/32</sup> x 21 <sup>1/2</sup> x 2 <sup>5/8</sup> |
| Number of Circuit              |      | 6   | 8  | 8  | 8  | 8  | 12   | 12   |

| Filter Specs | Unit | HAH14018  | HAH14024  | HAH14030  | HAH14036  | HAH14042  | HAH14048  | HAH14060  |
|--------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Size         | in   | 18 x 20   | 18 x 20   | 18 x 20   | 18 x 20   | 18 x 20   | 20 x 22   | 20 x 22   |
|              | mm   | 457 x 508 | 457 x 508 | 457 x 508 | 457 x 508 | 457 x 508 | 508 x 559 | 508 x 559 |