

# MODEL CAHV/H / TACU-VACU

**AIR HANDLING UNIT**

**AIR QUANTITY**

**FROM 1,450 TO 23,000 CFM.**

**COOLING CAPACITY**

**FROM 80,000 TO 750,000 BTUH**



**UNI-Aire®**

Air Conditioning Experts

## FEATURES

- Easy Installation & Maintenance
- High Performance & High External static
- Heavy-duty Blower
- Copper tube with Aluminium Fin Coils

[www.networkcooling.com](http://www.networkcooling.com)

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|                                    |                         | SPECIFICATION MODEL : CAHV/H / TACU                         |                 |                 |                 |                 |                 |                                                            |                 |                 | SPECIFICATION MODEL : CAHV/H / VACU |                   |                   |                   |
|------------------------------------|-------------------------|-------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------------------------------------------|-----------------|-----------------|-------------------------------------|-------------------|-------------------|-------------------|
| Nominal Cooling Capacity (BTU/H)   |                         | 80,000                                                      | 90,000          | 100,000         | 120,000         | 150,000         | 200,000         | 250,000                                                    | 300,000         | 400,000         | 500,000                             | 600,000           | 750,000           |                   |
| COP (Watt / Watt)                  |                         | 3.09                                                        | 3.03            | 2.74            | 2.76            | 2.91            | 2.80            | 2.82                                                       | 2.83            | 4.44            | 2.44                                | 1.38              | 1.05              |                   |
| Power Consumption (kW)             |                         | 7.60                                                        | 8.72            | 10.70           | 12.75           | 15.08           | 20.95           | 26.02                                                      | 31.05           | 26.40           | 59.99                               | 127.44            | 210.04            |                   |
| Rated Operation Current (Amp.)     |                         | 14.18                                                       | 17.08           | 20.83           | 23.86           | 30.46           | 39.27           | 48.04                                                      | 58.71           | 49.97           | 123.10                              | 256.30            | 459.50            |                   |
| Power Supply (Volt/Phase/Hz)       |                         | 380/3/50                                                    |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Fan Coil Unit                      | Model                   | CAHV/H-008AS                                                | CAHV/H-009AS    | CAHV/H-010AS    | CAHV/H-012AS    | CAHV/H-015AS    | CAHV/H-020A     | CAHV/H-025A                                                | CAHV/H-030A     | CAHV/H-040A     | CAHV/H-050A                         | CAHV/H-060A       | CAHV/H-075A       |                   |
|                                    | Type                    | Duct Type                                                   |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Air Flow Rated (Nominal) (CFM)     |                         | 1,950                                                       | 2,500           | 2,950           | 3,300           | 4,250           | 6,500           | 7,000                                                      | 8,000           | 10,500          | 13,400                              | 16,000            | 20,000            |                   |
| Air Flow Rated (Range) (CFM)       |                         | 1,450 - 2,450                                               | 2,000 - 3,000   | 2,450 - 3,450   | 2,800 - 3,800   | 3,250 - 5,250   | 5,000 - 8,000   | 5,000 - 9,000                                              | 6,000 - 10,000  | 8,500 - 12,500  | 10,400 - 16,400                     | 12,000 - 20,000   | 17,000 - 23,000   |                   |
| External Static Pressure (in.wg.)  |                         | 0.21                                                        | 0.22            | 0.22            | 0.23            | 0.24            | 0.37            | 0.56                                                       | 0.65            | 0.75            | 0.98                                | 1.13              | 1.15              |                   |
| Blower                             | Type                    | Centrifugal (Vertical or Horizontal Discharge) (Belt Drive) |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
|                                    | Quantity (PCS)          | 1                                                           |                 |                 |                 | 2               |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Motor                              | Power Input (Watt)      | 0.94                                                        |                 | 1.81            |                 |                 | 2.61            | 3.51                                                       | 4.28            | 6.49            | 8.46                                | 12.25             |                   |                   |
|                                    | Rated Current (Amp.)    | 1.95                                                        |                 | 3.40            |                 |                 | 4.87            | 6.50                                                       | 7.53            | 11.10           | 15.30                               | 21.50             |                   |                   |
|                                    | Quantity (PCS)          | 1                                                           |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Evaporator Coil                    |                         | Aluminium Louver Fin with Inner Grooved Copper Tube (7 mm.) |                 |                 |                 |                 |                 | Aluminium Louver Fin with Inner Grooved Copper Tube (3/8") |                 |                 |                                     |                   |                   |                   |
| Expansion Device Type              |                         | Thermostatic Expansion Valve (TXV)                          |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Control Type                       |                         | Optional                                                    |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Air Filter Type                    |                         | Aluminium Filter                                            |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Drain Connection (Inch)(OD)        |                         | 3/4                                                         |                 |                 | 1               |                 | 1-1/4           |                                                            |                 |                 |                                     |                   |                   |                   |
| CAHV : Dimension (W x D x H) (mm.) |                         | 1,120×601×1,332                                             | 1,120×601×1,332 | 1,120×601×1,332 | 1,370×601×1,332 | 1,570×601×1,332 | 1,998×712×1,667 | 1,998×712×1,667                                            | 1,998×770×1,877 | 2,270×870×2,123 | 2,368×1,079×2,328                   | 2,824×1,079×2,328 | 3,230×1,079×2,500 |                   |
| CAHV : Weight (kgs.)               |                         | 130                                                         |                 | 143             | 160             | 184             | 240             | 260                                                        | 305             | 365             | 415                                 | 470               | 600               |                   |
| CAHV : Dimension (W x D x H) (mm.) |                         | 1,276×1,234×656                                             | 1,276×1,234×656 | 1,276×1,234×656 | 1,526×1,234×656 | 1,726×1,234×656 | 2,154×1,561×772 | 2,154×1,561×772                                            | 2,154×1,778×832 | 2,426×2,023×934 | 2,368×2,235×1,260                   | 2,820×2,235×1,260 | 3,310×2,559×1,260 |                   |
| CAHV : Weight (kgs.)               |                         | 143                                                         | 144             | 160             | 180             | 198             | 260             | 280                                                        | 327             | 388             | 450                                 | 510               | 650               |                   |
| Condensing Unit                    | Model                   | TACU-008AS                                                  | TACU-009AS      | TACU-010AS      | TACU-012AS      | TACU-015AS      | TACU-020A-2C    | TACU-025A-2C                                               | TACU-030A-2C    | TACU-040A-2C    | VACU-050A-2C                        | VACU-060A-2C      | VACU-070A-2C      |                   |
|                                    | Type                    | Vertical Air Flow                                           |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
| Condenser Coil Type                |                         | Aluminium Louver Fin with Inner Grooved Copper Tube (7 mm.) |                 |                 |                 |                 |                 | Aluminium Louver Fin with Inner Grooved Copper Tube (3/8") |                 |                 |                                     |                   |                   |                   |
| Fan + Motor                        | Fan Type                | Propeller (With Motor Direct Drive)                         |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
|                                    | Power Input (kW)        | 0.485                                                       |                 |                 |                 |                 |                 | 0.850                                                      | 1.087           |                 |                                     | 1.468             |                   |                   |
|                                    | Rated Current (Amp.)    | 1.23                                                        |                 |                 |                 |                 |                 | 1.20                                                       | 2.29            |                 |                                     | 2.3               |                   |                   |
|                                    | Quantity (Set)          | 1                                                           |                 |                 |                 | 2               |                 |                                                            |                 |                 | 3                                   | 4                 |                   | 6                 |
| Compressor                         | Type                    | Scroll                                                      |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
|                                    | Refrigerant             | R-410A (Holding Charge)                                     |                 |                 |                 |                 |                 |                                                            |                 |                 |                                     |                   |                   |                   |
|                                    | Circuit of Refrigerant  | 1                                                           |                 |                 |                 |                 | 2               |                                                            |                 |                 |                                     |                   |                   |                   |
|                                    | Power Input (kW)        | 6.17                                                        | 7.29            | 8.40            | 9.97            | 12.30           | 8.32            | 10.17                                                      | 12.30           | 8.32            | 22.83                               | 27.33             | 31.497            |                   |
|                                    | FLA (Amp.)              | 11.00                                                       | 13.90           | 16.20           | 18.00           | 24.60           | 16.00           | 18.48                                                      | 23.30           | 16.00           | 49.30                               | 56.40             | 70.70             |                   |
|                                    | LRA (Amp.)              | 101                                                         | 127             | 153             | 153             | 174             | 139             | 153                                                        | 174             | 139             | 270                                 | 300               | 390               |                   |
|                                    | Quantity (PCS)          | 1                                                           |                 |                 |                 |                 |                 | 2                                                          |                 |                 |                                     |                   | 4                 |                   |
| Pipe Connection                    | Suction Line (Inch)(OD) | 7/8                                                         | 1-1/8           |                 |                 |                 | 1-3/8 (x2)      |                                                            |                 | 1-5/8 (x2)      |                                     |                   | 2-1/8 (x2)        |                   |
|                                    | Liquid Line (Inch)(OD)  | 1/2                                                         |                 |                 |                 | 5/8             | 5/8 (x2)        |                                                            |                 | 7/8 (x2)        |                                     |                   |                   |                   |
| Dimension (W x D x H) (mm.)        |                         | 800×750×945                                                 |                 |                 |                 | 1,500×750×945   |                 | 2,140×1,140×1,165                                          |                 |                 | 2,860×1,140×1,165                   | 2,200×2,509×2,030 |                   | 2,200×3,624×2,030 |
| Weight (kgs.)                      |                         | 120                                                         | 142             | 150             | 170             | 185             | 370             | 425                                                        | 480             | 550             | 1,264                               | 1,278             | 1,686             |                   |

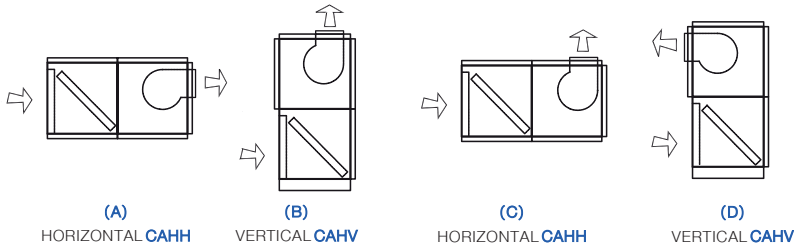
\*Nominal cooling capacity based on 80 °FDB and 67 °FWB entering air temp., And 45°F suction temp. and 95°F ambient temp.

Specification are subjected to change without notice for future improvement

FLA = Full Load Amp.

LRA = Locked Rotor Amp

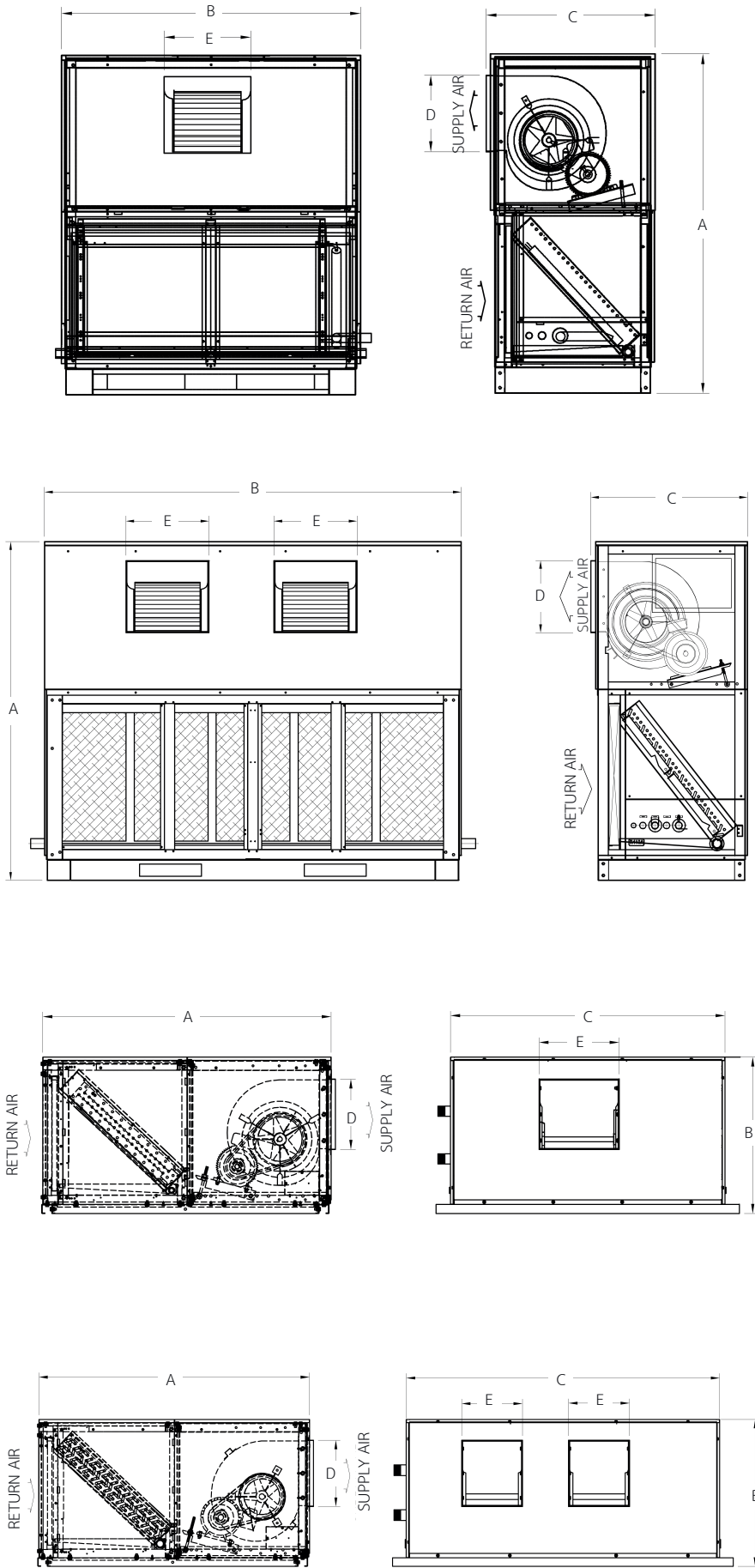
ALTERNATE BLOWER ARRANGEMENTS



“Orders without specific blower arrangement will be considered as standard configuration (A or B)”

CONDENSING UNIT





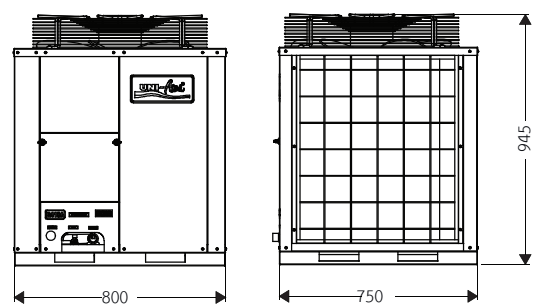
| MODEL      | DIMENSIONS |       |     |     |     |
|------------|------------|-------|-----|-----|-----|
|            | A          | B     | C   | D   | E   |
| CAHV-009AS | 1,313      | 1,157 | 633 | 296 | 335 |
| CAHV-010AS | 1,313      | 1,157 | 633 | 340 | 395 |

| MODEL      | DIMENSIONS |       |     |     |     |
|------------|------------|-------|-----|-----|-----|
|            | A          | B     | C   | D   | E   |
| CAHV-012AS | 1,313      | 1,402 | 633 | 293 | 273 |
| CAHV-015AS | 1,313      | 1,606 | 655 | 295 | 337 |
| CAHV-020A  | 1,643      | 2,024 | 761 | 349 | 403 |
| CAHV-025A  | 1,643      | 2,024 | 761 | 349 | 403 |
| CAHV-030A  | 1,858      | 2,030 | 821 | 410 | 477 |
| CAHV-040A  | 2,104      | 2,302 | 917 | 413 | 480 |

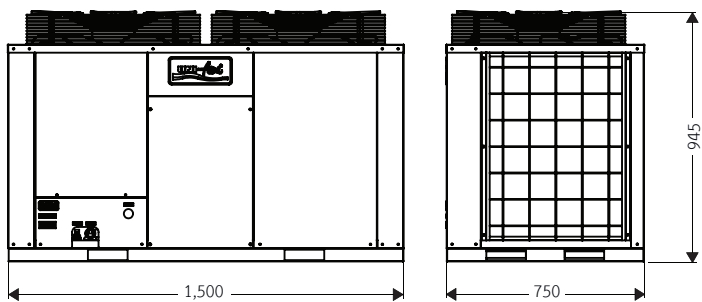
| MODEL      | DIMENSIONS |     |       |     |     |
|------------|------------|-----|-------|-----|-----|
|            | A          | B   | C     | D   | E   |
| CAHV-009AS | 1,234      | 656 | 1,154 | 296 | 335 |
| CAHV-010AS | 1,234      | 656 | 1,154 | 340 | 395 |

| MODEL      | DIMENSIONS |     |       |     |     |
|------------|------------|-----|-------|-----|-----|
|            | A          | B   | C     | D   | E   |
| CAHV-012AS | 1,234      | 656 | 1,404 | 293 | 273 |
| CAHV-015AS | 1,234      | 656 | 1,604 | 295 | 337 |
| CAHV-020A  | 1,561      | 772 | 2,032 | 349 | 403 |
| CAHV-025A  | 1,561      | 772 | 2,032 | 349 | 403 |
| CAHV-030A  | 1,778      | 832 | 2,032 | 410 | 477 |
| CAHV-040A  | 2,023      | 934 | 2,376 | 413 | 480 |

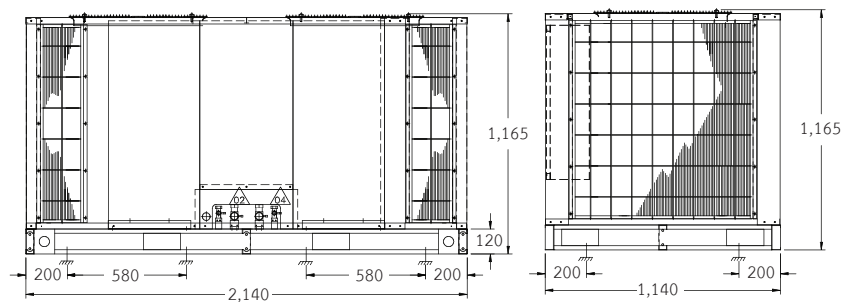
MODEL : TACU-008AS to TACU-010AS



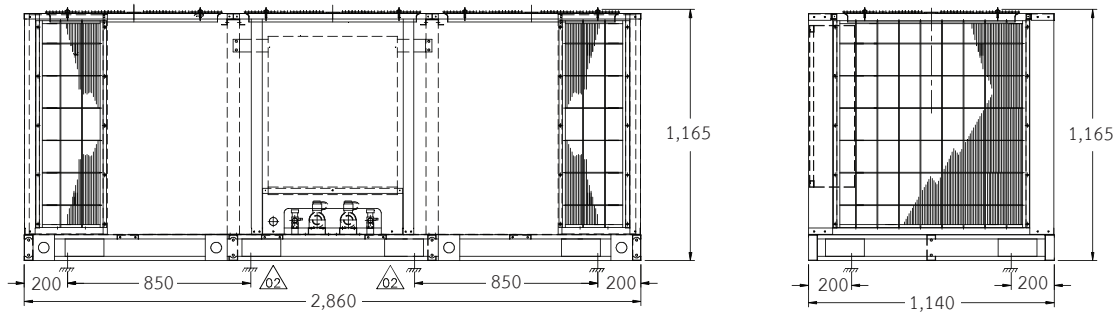
MODEL : TACU-012AS to TACU-015AS



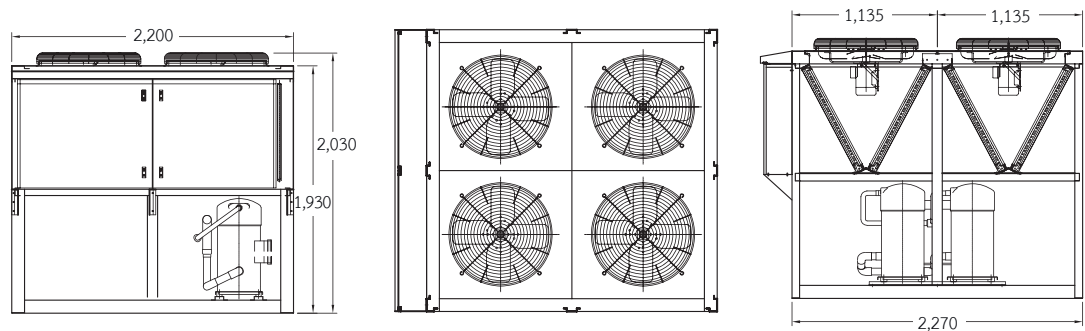
MODEL : TACU-020A to TACU-030A



MODEL : TACU-040A



MODEL : VACU-050A to VACU-060A



MODEL : VACU-070A

