



STANDARD AIR HANDLING UNIT

TICA CENTRAL AIR-CONDITIONING

4008-601-601

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TICA reserves the right to make changes without notice.

TAD TFD
FORM NO. A5215G01



誠信者，天下之結也

光阴荏苒，岁月如诗。

南京天加空调设备有限公司始终专注于中央空调的制造与销售，以专业的品质为人们创造舒适环境。

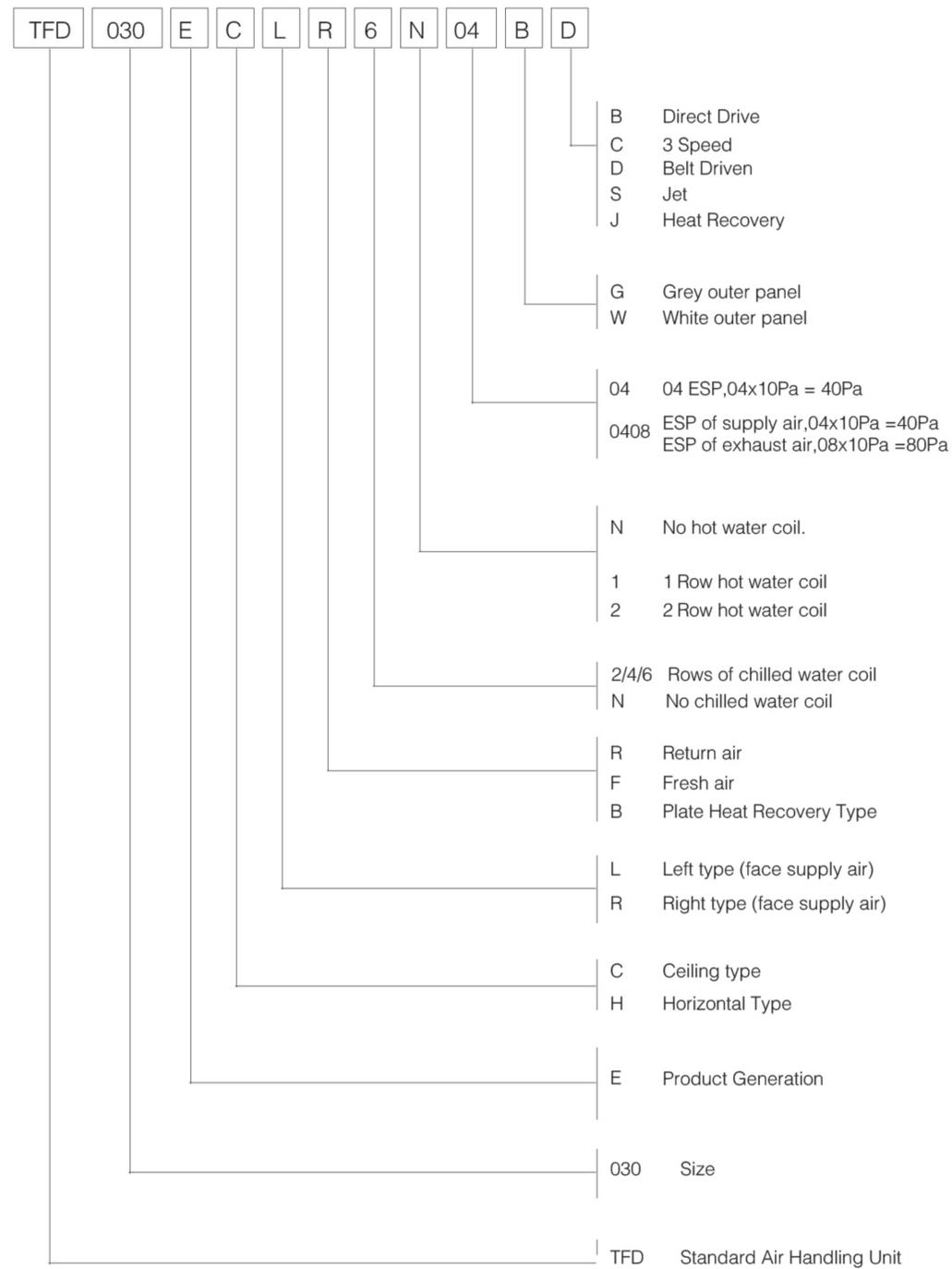
天加已成为中央空调行业中成长最迅速、发展最具活力的国际化企业之一。

DIRECTORY

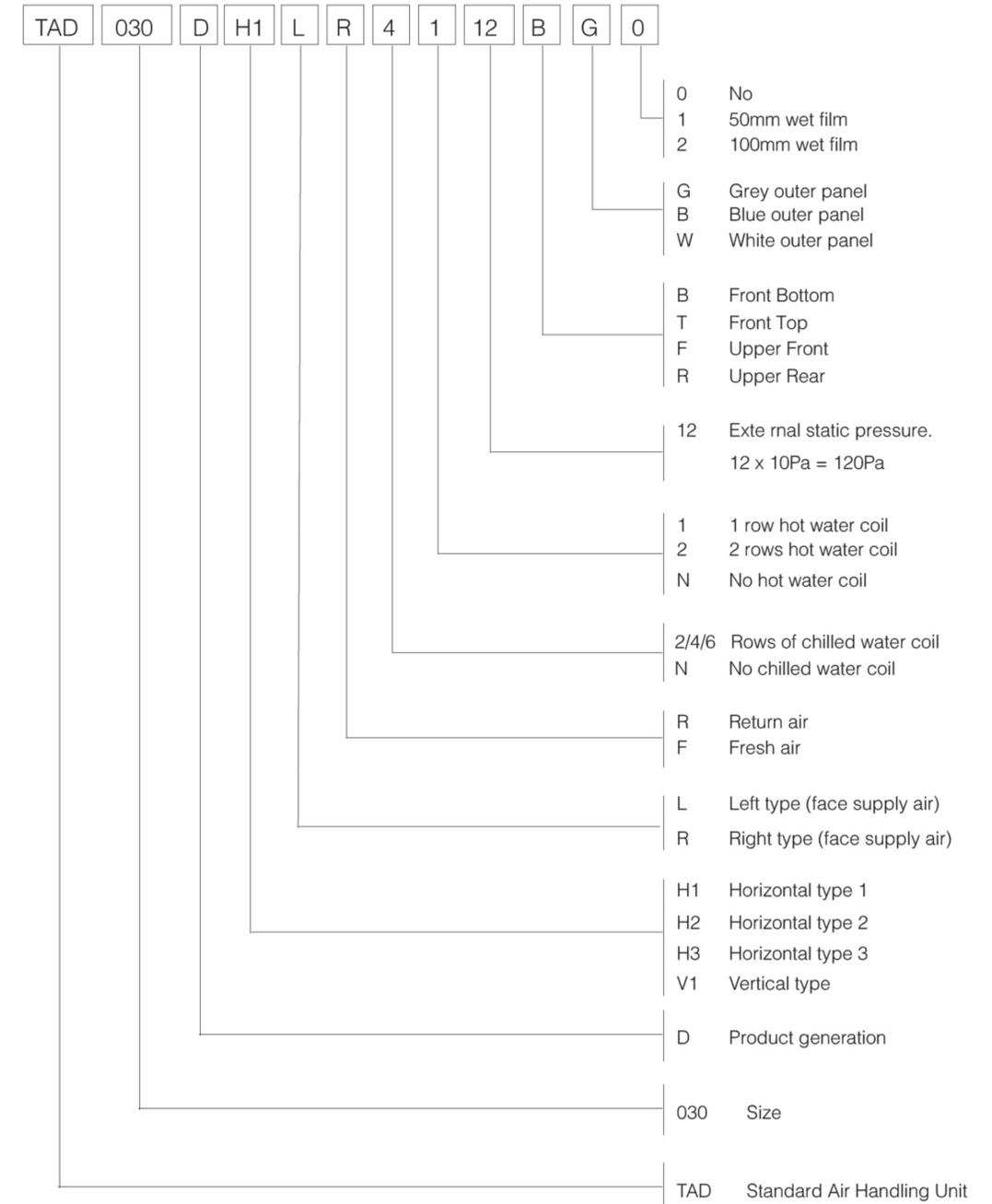
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Standard Air Handling Unit

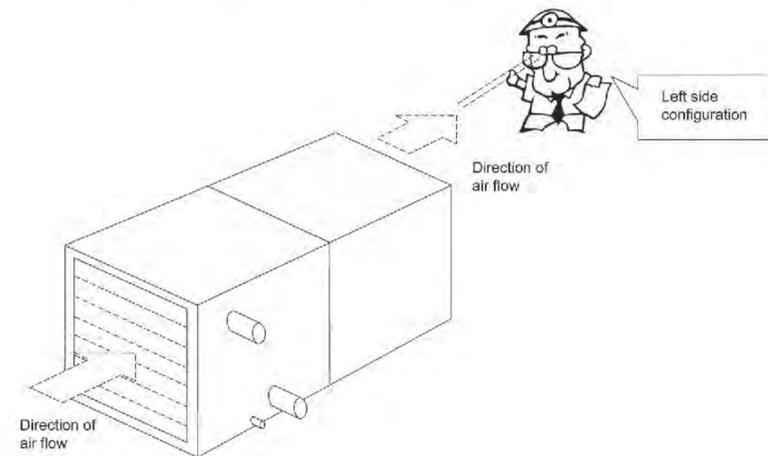


Standard Air Handling Unit



Method to determine the side of unit

Face the direction of air flow, water piping at left side indicates left type, otherwise, right type.



Features

Special Panel Structure Design

TFD's and TAD's panel is made of powder coated steel (outer) and galvanized steel (inner) with high pressure PU foam sandwiched in between, thus producing a rigid and robust panel. Structure of TFD and TAD is reinforced with specially designed hidden aluminum alloy frame that are being fastened to the panels with bolts and nuts. As a result, the structure is strong and lightweight, at the same time possesses superior thermal insulation and anti-rust property.

Low Air Leakage

Patented "Labyrinth" panel design featuring integrated frame and panel structure, proprietary aluminum profile fastened with bolts and nuts and ingeniously designed insulation method, reduces the connecting edges which produces a leading edge low air leakage panel structure.

No Cold Bridge

High pressure PU foam sandwiched between panels and specially designed insulation method is isolating all metal surfaces inside the air handling unit from outside air which eliminate the possibility of cold bridge. Thus, no condensation will happen and at the same time minimize loss of energy.

Wide Product Range

TFD's and TAD's design is adopting modular concept in both the length and width, making it flexible and robust to suite different site conditions. TFD is offering product range with air flow ranging from 564 – 15,000 m³/h and TAD is offering product range from 3,000–50,000 m³/h with 3 different ESP to choose from, making it versatile and able to fulfill various application requirements.

Computer Aided Coil Design

All cooling and heating coils are designed using professional computer selection software which is carefully formulated, designed and being fine tuned through laboratory testing and real life application.

Low Noise

Rigidly bolted panels, dynamically and statically balanced fan assembly with spring isolator and closely integrated sections reduces the vibrations and noise generated, thus, providing a quiet operation air handling unit.

ARI Performance Certified™ Coil *

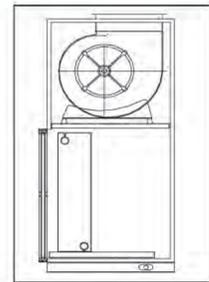


All cooling and heating coils are designed using professional computer selection software which is ARI Performance Certified™. The software is carefully formulated, designed and being fine tuned through laboratory testing and real life application to meet the highest standard of the HVAC industry.

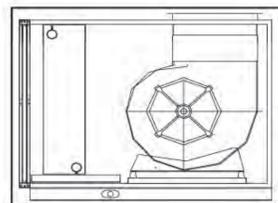
ARI Performance Certified™ is the trusted mark of performance assurance for heating, ventilation, air conditioning and commercial refrigeration equipment. Products earning the mark undergo rigorous, independent annual evaluation to ensure that they perform according to the manufacturers' published claims. Certifying HVACR equipment and component performance allows consumers to compare products based on independently verified performance ratings. To find ARI Performance Certified™ products, go to www.aridirectory.org.

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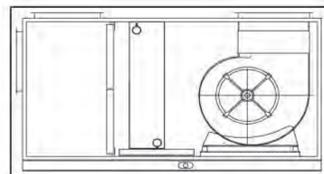
Unit Type Configuration (TAD)



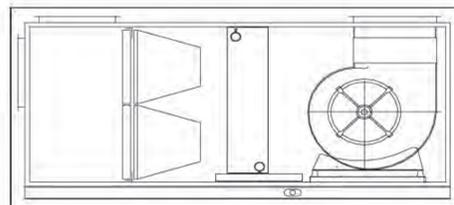
Vertical Type, V1
Pre-filter + Cooling coil + Fan section



Horizontal Type 1, H1
Pre-filter + Cooling coil + Fan section



Horizontal Type 2, H2
Mixing box + Pre-filter + Cooling coil + Fan section



Horizontal Type 3, H3
Mixing box + Pre-filter + Medium efficiency bag filter + Cooling coil + Fan section

Note:

1. Standard unit comes with flange opening. Damper (GI) is available as optional item.

TAD Standard Air Handling Unit Return air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | |
|-------|-------------------|------------------------|------------------------|-----------------|---------------|--------------------|-----------------------|------------------------|------------------------|-----------------|---------------|--------------------|-----------------------|
| | | Rated Cooling Capacity | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe | Condensing water pipe | Rated Cooling Capacity | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe | Condensing water pipe |
| | m ³ /h | kW | kW | l/s | kPa | DN | DN | kW | kW | l/s | kPa | DN | DN |
| TAD | | | | | | | | | | | | | |
| 020D | 2000 | 11.0 | 22.8 | 0.5 | 7.5 | 32 | 25 | 14.8 | 27.6 | 0.7 | 18.1 | 32 | 25 |
| 030D | 3000 | 17.2 | 35.1 | 0.8 | 13.8 | 32 | 25 | 22.7 | 41.9 | 1.1 | 32.4 | 32 | 25 |
| 040D | 4000 | 23.4 | 47.1 | 1.1 | 20.7 | 32 | 25 | 29.6 | 54.6 | 1.4 | 44.9 | 32 | 25 |
| 050D | 5000 | 28.2 | 57.0 | 1.3 | 19.9 | 32 | 25 | 34.5 | 64.5 | 1.6 | 40.3 | 32 | 25 |
| 060D | 6000 | 35.1 | 69.1 | 1.7 | 27.0 | 40 | 25 | 42.4 | 78.2 | 2.0 | 53.5 | 40 | 25 |
| 070D | 7000 | 41.0 | 80.7 | 2.0 | 31.9 | 50 | 25 | 48.8 | 92.5 | 2.3 | 23.4 | 50 | 25 |
| 080D | 8000 | 48.2 | 93.7 | 2.3 | 46.9 | 50 | 25 | 57.2 | 106.7 | 2.7 | 34.0 | 50 | 25 |
| 090D | 9000 | 52.3 | 102.6 | 2.5 | 42.4 | 50 | 25 | 65.1 | 120.6 | 3.1 | 30.0 | 50 | 25 |
| 105D | 10500 | 59.7 | 115.7 | 2.8 | 60.0 | 50 | 25 | 74.2 | 138.1 | 3.5 | 42.4 | 50 | 25 |
| 120D | 12000 | 69.8 | 136.8 | 3.3 | 46.0 | 50 | 25 | 89.9 | 165.3 | 4.3 | 32.3 | 50 | 25 |
| 135D | 13500 | 79.1 | 158.1 | 3.8 | 20.8 | 65 | 32 | 104.1 | 187.7 | 5.0 | 46.7 | 65 | 32 |
| 150D | 15000 | 90.4 | 172.7 | 4.3 | 61.5 | 65 | 32 | 115.0 | 207.6 | 5.5 | 50.3 | 65 | 32 |
| 180D | 18000 | 107.0 | 210.8 | 5.1 | 31.8 | 65 | 32 | 136.4 | 252.5 | 6.5 | 21.0 | 65 | 32 |
| 210D | 21000 | 126.6 | 247.3 | 6.0 | 38.3 | 65 | 32 | 157.4 | 289.4 | 7.5 | 26.4 | 65 | 32 |
| 240D | 24000 | 148.8 | 285.6 | 7.1 | 53.4 | 65 | 32 | 181.9 | 332.2 | 8.7 | 37.7 | 65 | 32 |
| 270D | 27000 | 167.5 | 321.3 | 8.0 | 55.1 | 65 | 32 | 204.7 | 372.0 | 9.8 | 39.0 | 65 | 32 |
| 300D | 30000 | 186.1 | 357.0 | 8.9 | 56.8 | 65 | 32 | 226.1 | 413.4 | 10.8 | 39.8 | 65 | 32 |
| 330D | 33000 | 204.7 | 392.7 | 9.8 | 72.3 | 80 | 32 | 253.0 | 456.8 | 12.1 | 52.2 | 80 | 32 |
| 350D | 35000 | 220.1 | 416.5 | 10.5 | 85.6 | 80 | 32 | 271.3 | 486.9 | 12.9 | 61.6 | 80 | 32 |
| 400D | 40000 | 230.8 | 451.0 | 11.0 | 69.2 | 80 | 32 | 299.8 | 546.1 | 14.3 | 52.5 | 80 | 32 |
| 450D | 45000 | 248.1 | 484.8 | 11.8 | 71.5 | 80 | 32 | 341.1 | 617.2 | 16.3 | 59.8 | 80 | 32 |
| 500D | 50000 | 275.6 | 538.5 | 13.1 | 79.1 | 80 | 32 | 379.0 | 685.9 | 18.1 | 65.9 | 80 | 32 |

Note:

1. Cooling capacity is based on the following:
 - a) Water temperature : 7° C (inlet)/12° C (outlet)
 - b) Air entering condition : 27° C DB/19.5° C WB
2. Heating capacity is based on the following (with same water flow rate as cooling cycle):
 - a) Water temperature : 60° C (inlet)
 - b) Air entering condition : 15° C DB
3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TAD Standard Air Handling Unit Fresh air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | |
|-------|-------------------|------------------------|------------------------|-----------------|---------------|--------------------|-----------------------|------------------------|------------------------|-----------------|---------------|--------------------|-----------------------|
| | | Rated Cooling Capacity | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe | Condensing water pipe | Rated Cooling Capacity | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe | Condensing water pipe |
| | m ³ /h | kW | kW | l/s | kPa | DN | DN | kW | kW | l/s | kPa | DN | DN |
| TAD | | | | | | | | | | | | | |
| 020D | 2000 | 27.4 | 30.7 | 1.6 | 54.5 | 40 | 25 | 33.7 | 34.2 | 1.6 | 26.7 | 40 | 25 |
| 030D | 3000 | 40.5 | 44.3 | 1.9 | 31.9 | 40 | 25 | 47.9 | 48.9 | 2.3 | 45.9 | 40 | 25 |
| 040D | 4000 | 54.7 | 58.8 | 2.6 | 49.8 | 50 | 25 | 63.8 | 67.0 | 3.0 | 32.4 | 50 | 25 |
| 050D | 5000 | 68.4 | 73.8 | 3.3 | 49.4 | 50 | 25 | 79.8 | 83.9 | 3.8 | 29.6 | 50 | 25 |
| 060D | 6000 | 81.0 | 85.0 | 6.0 | 46.2 | 50 | 25 | 97.9 | 100.5 | 4.7 | 39.4 | 50 | 25 |
| 070D | 7000 | 89.6 | 95.0 | 6.6 | 49.4 | 65 | 25 | 115.4 | 116.7 | 5.5 | 48.0 | 65 | 25 |
| 080D | 8000 | 101.7 | 108.6 | 6.6 | 63.4 | 65 | 25 | 127.7 | 134.5 | 6.1 | 21.6 | 65 | 25 |
| 090D | 9000 | 116.8 | 123.5 | 7.7 | 57.3 | 65 | 25 | 140.5 | 146.7 | 6.7 | 20.5 | 65 | 25 |
| 105D | 10500 | 145.5 | 154.9 | 7.7 | 62.6 | 65 | 25 | 162.1 | 167.3 | 7.7 | 29.3 | 65 | 25 |
| 120D | 12000 | 157.9 | 175.3 | 7.7 | 66.7 | 65 | 25 | 193.6 | 196.5 | 9.2 | 43.0 | 65 | 25 |
| 135D | 13500 | 172.8 | 195.2 | 8.2 | 13.8 | 80 | 32 | 222.6 | 223.1 | 10.6 | 61.1 | 80 | 32 |
| 150D | 15000 | 194.7 | 221.3 | 9.3 | 15.6 | 80 | 32 | 252.6 | 252.3 | 12.0 | 69.3 | 80 | 32 |
| 180D | 18000 | 230.5 | 257.6 | 11.0 | 20.7 | 80 | 32 | 293.6 | 296.1 | 13.1 | 71.8 | 80 | 32 |
| 210D | 21000 | 276.3 | 303.6 | 13.2 | 28.1 | 80 | 32 | 331.5 | 336.1 | 13.9 | 78.3 | 80 | 32 |
| 240D | 24000 | 319.9 | 348.8 | 15.2 | 39.6 | 80 | 32 | *366.2 | *380.6 | *12.5 | *70.7 | 80 | 32 |
| 270D | 27000 | 359.9 | 389.7 | 17.1 | 42.6 | 80 | 32 | *409.6 | *428.2 | *13.9 | *72.4 | 80 | 32 |
| 300D | 30000 | 384.1 | 420.5 | 18.3 | 43.2 | 80 | 32 | *455.2 | *473.6 | *15.5 | *75.0 | 80 | 32 |
| 330D | 33000 | 445.7 | 482.0 | 21.2 | 59.8 | 80 | 32 | *503.6 | *523.3 | *17.1 | *96.3 | 80 | 32 |
| 350D | 35000 | 454.3 | 490.5 | 21.6 | 63.7 | 80 | 32 | *552.5 | *578.3 | *15.5 | *83.6 | 80 | 32 |
| 400D | 40000 | 477.1 | 525.2 | 22.7 | 40.3 | 80 | 32 | *589.3 | *622.5 | *18.7 | *83.5 | 80 | 32 |
| 450D | 45000 | 536.7 | 594.2 | 25.6 | 45.3 | 80 | 32 | *647.2 | *679.6 | *19.3 | *79.8 | 80 | 32 |
| 500D | 50000 | 605.1 | 663.9 | 28.8 | 51.6 | 80 | 32 | *727.9 | *774.6 | *21.7 | *89.9 | 80 | 32 |

Note:

1. Cooling capacity is based on the following:
 - a) Water temperature : 7° C (inlet)/12° C (outlet)
 - b) Air entering condition : 35° C DB/28° C WB
2. Heating capacity is based on the following (with same water flow rate as cooling cycle):
 - a) Water temperature : 60° C (inlet)
 - b) Air entering condition : 7° C DB
3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.
4. * In order to control chilled water pressure drop, differential in entering and leaving chilled water temperature is above 5 °C

TAD Standard Air Handling Unit---With Separate Heating Coil Return air condition

| Model | Air Flow | 1 row | | | | 2 row | | | |
|-------|----------|------------------------|-----------------|---------------|--------------------|------------------------|-----------------|---------------|--------------------|
| | | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe |
| TAD | m³/h | kW | l/s | kPa | DN | kW | l/s | kPa | DN |
| 020D | 2000 | 6.7 | 0.2 | 0.2 | 32 | 13.6 | 0.3 | 1.2 | 32 |
| 030D | 3000 | 10.2 | 0.3 | 0.3 | 32 | 20.0 | 0.5 | 2.0 | 32 |
| 040D | 4000 | 13.8 | 0.3 | 0.5 | 32 | 27.2 | 0.7 | 3.0 | 32 |
| 050D | 5000 | 18.5 | 0.5 | 0.5 | 32 | 35.8 | 0.9 | 3.3 | 32 |
| 060D | 6000 | 23.2 | 0.6 | 0.7 | 32 | 43.7 | 1.1 | 4.3 | 32 |
| 070D | 7000 | 27.6 | 0.7 | 0.9 | 32 | 50.9 | 1.2 | 5.1 | 32 |
| 080D | 8000 | 32.5 | 0.8 | 1.3 | 32 | 56.8 | 1.4 | 6.4 | 32 |
| 090D | 9000 | 37.0 | 0.9 | 1.3 | 32 | 64.4 | 1.6 | 6.5 | 32 |
| 105D | 10500 | 42.0 | 1.0 | 1.8 | 32 | 77.7 | 1.9 | 10.3 | 32 |
| 120D | 12000 | 48.7 | 1.2 | 2.5 | 32 | 88.8 | 2.2 | 14.2 | 32 |
| 135D | 13500 | 56.4 | 1.4 | 3.7 | 40 | 101.5 | 2.5 | 20.4 | 40 |
| 150D | 15000 | 61.7 | 1.5 | 3.9 | 40 | 111.0 | 2.7 | 21.1 | 40 |
| 180D | 18000 | 75.2 | 1.8 | 5.4 | 40 | 135.3 | 3.3 | 29.2 | 40 |
| 210D | 21000 | 88.9 | 2.2 | 7.0 | 40 | 157.8 | 3.9 | 37.5 | 40 |
| 240D | 24000 | 103.1 | 2.5 | 10.2 | 40 | 174.7 | 4.3 | 7.7 | 40 |
| 270D | 27000 | 116.0 | 2.8 | 10.3 | 40 | 196.5 | 4.8 | 7.8 | 40 |
| 300D | 30000 | 128.8 | 3.1 | 10.4 | 40 | 216.5 | 5.3 | 7.7 | 40 |
| 330D | 33000 | 141.7 | 3.5 | 13.4 | 40 | 240.1 | 5.9 | 10.1 | 40 |
| 350D | 35000 | 150.3 | 3.7 | 15.6 | 40 | 254.7 | 6.2 | 11.7 | 40 |
| 400D | 40000 | 167.0 | 4.1 | 13.9 | 40 | 281.5 | 6.9 | 10.4 | 40 |
| 450D | 45000 | 187.9 | 4.6 | 15.3 | 40 | 322.1 | 7.9 | 11.8 | 40 |
| 500D | 50000 | 208.8 | 5.1 | 16.7 | 40 | 357.9 | 8.7 | 12.8 | 40 |

Note:

- Heating capacity is based on the following:
 - Water temperature : 60° C (inlet)/50° C (outlet)
 - Air entering condition : 15° C DB
- Pressure drop of heating coil is 25Pa per row, when add heating coil, please increase pressure drop.
- The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TAD Standard Air Handling Unit---With Separate Heating Coil Fresh air condition

| Model | Air Flow | 1 row | | | | 2 row | | | |
|-------|----------|------------------------|-----------------|---------------|--------------------|------------------------|-----------------|---------------|--------------------|
| | | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe | Rated Heating Capacity | Water flow rate | Pressure drop | Chilled water pipe |
| TAD | m³/h | kW | l/s | kPa | DN | kW | l/s | kPa | DN |
| 020D | 2000 | 9.0 | 0.2 | 0.3 | 32 | 16.6 | 0.4 | 1.7 | 32 |
| 030D | 3000 | 13.5 | 0.3 | 0.5 | 32 | 25.7 | 0.6 | 3.1 | 32 |
| 040D | 4000 | 18.6 | 0.5 | 0.8 | 32 | 33.2 | 0.8 | 4.2 | 32 |
| 050D | 5000 | 23.2 | 0.6 | 0.8 | 32 | 43.6 | 1.1 | 4.6 | 32 |
| 060D | 6000 | 28.7 | 0.7 | 1.0 | 32 | 50.6 | 1.2 | 5.5 | 32 |
| 070D | 7000 | 33.9 | 0.8 | 1.3 | 32 | 63.0 | 1.5 | 7.2 | 32 |
| 080D | 8000 | 39.9 | 1.0 | 1.9 | 32 | 73.1 | 1.8 | 10.5 | 32 |
| 090D | 9000 | 45.5 | 1.1 | 1.8 | 32 | 78.4 | 1.9 | 9.1 | 32 |
| 105D | 10500 | 51.6 | 1.3 | 2.5 | 32 | 92.9 | 2.3 | 14.0 | 32 |
| 120D | 12000 | 59.0 | 1.4 | 3.5 | 32 | 106.2 | 2.6 | 19.2 | 32 |
| 135D | 13500 | 69.2 | 1.7 | 5.3 | 40 | 123.3 | 3.0 | 28.4 | 40 |
| 150D | 15000 | 75.9 | 1.9 | 5.5 | 40 | 134.9 | 3.3 | 29.4 | 40 |
| 180D | 18000 | 92.3 | 2.3 | 7.6 | 40 | 161.9 | 3.9 | 39.7 | 40 |
| 210D | 21000 | 109.2 | 2.7 | 10.0 | 40 | 182.9 | 4.5 | 7.4 | 40 |
| 240D | 24000 | 124.8 | 3.0 | 14.1 | 40 | 212.4 | 5.2 | 10.7 | 40 |
| 270D | 27000 | 140.4 | 3.4 | 14.3 | 40 | 237.1 | 5.8 | 10.7 | 40 |
| 300D | 30000 | 156.0 | 3.8 | 14.4 | 40 | 261.3 | 6.4 | 10.7 | 40 |
| 330D | 33000 | 173.9 | 4.2 | 19.0 | 40 | 292.1 | 7.1 | 14.1 | 40 |
| 350D | 35000 | 184.4 | 4.5 | 22.1 | 40 | 309.8 | 7.6 | 16.4 | 40 |
| 400D | 40000 | 202.3 | 4.9 | 19.2 | 40 | 342.8 | 8.4 | 14.5 | 40 |
| 450D | 45000 | 227.6 | 5.6 | 21.2 | 40 | 385.7 | 9.4 | 16.0 | 40 |
| 500D | 50000 | 256.1 | 6.2 | 23.6 | 40 | 423.6 | 10.3 | 17.1 | 40 |

Note:

- Heating capacity is based on the following:
 - Water temperature : 60° C (inlet)/50° C (outlet)
 - Air entering condition : 7° C DB
- Pressure drop of heating coil is 25Pa per row, when add heating coil, please increase pressure drop.
- The manufacturer reserves the rights to make changes to the above specifications without prior notice.

Standard ESP and Power

TAD-DH1(Horizontal type 1)/DV1(Vertical type 1)

| Model | Air Flow | ESP (Pa) | | | | Motor power | | Sound level |
|-------|----------|----------|--------|--------|--------|-------------|------|-------------|
| | | DH1 | | DV1 | | DH1 | DV1 | |
| TAD | m³/h | 4 rows | 6 rows | 4 rows | 6 rows | kW | | dB(A) |
| 020D | 2000 | 220 | 170 | 220 | 170 | 0.55 | 0.55 | 55.0 |
| 030D | 3000 | 220 | 170 | 220 | 170 | 0.75 | 0.75 | 58.0 |
| 040D | 4000 | 220 | 170 | 220 | 170 | 1.1 | 1.1 | 59.0 |
| 050D | 5000 | 220 | 170 | 220 | 170 | 1.1 | 1.1 | 61.0 |
| 060D | 6000 | 220 | 170 | 220 | 170 | 1.5 | 1.5 | 62.0 |
| 070D | 7000 | 270 | 220 | 270 | 220 | 2.2 | 2.2 | 64.0 |
| 080D | 8000 | 270 | 220 | 270 | 220 | 2.2 | 2.2 | 64.0 |
| 090D | 9000 | 270 | 220 | 270 | 220 | 2.2 | 2.2 | 65.0 |
| 105D | 10500 | 270 | 220 | 270 | 220 | 3.0 | 3.0 | 66.0 |
| 120D | 12000 | 270 | 220 | 270 | 220 | 3.0 | 3.0 | 67.0 |
| 135D | 13500 | 270 | 220 | 270 | 220 | 4.0 | 4.0 | 68.0 |
| 150D | 15000 | 270 | 220 | 270 | 220 | 4.0 | 4.0 | 68.0 |
| 180D | 18000 | 320 | 270 | 320 | 270 | 5.5 | 5.5 | 69.0 |
| 210D | 21000 | 320 | 270 | 320 | 270 | 7.5 | 7.5 | 70.0 |
| 240D | 24000 | 320 | 270 | 320 | 270 | 7.5 | 7.5 | 71.0 |
| 270D | 27000 | 420 | 370 | 420 | 370 | 11.0 | 11.0 | 72.0 |
| 300D | 30000 | 420 | 370 | 420 | 370 | 11.0 | 11.0 | 73.0 |
| 330D | 33000 | 420 | 370 | 420 | 370 | 15.0 | 15.0 | 73.0 |
| 350D | 35000 | 470 | 420 | 470 | 420 | 15.0 | 15.0 | 73.5 |
| 400D | 40000 | 420 | 370 | 420 | 370 | 15.0 | 15.0 | 73.5 |
| 450D | 45000 | 420 | 370 | 420 | 370 | 18.5 | 18.5 | 74.0 |
| 500D | 50000 | 420 | 370 | 420 | 370 | 22.0 | 22.0 | 74.0 |

Note:
ESP for option, if needed, please contact factory

Standard ESP and Power

TAD-DH2(Horizontal type 2)/DH3(Horizontal type 3)

| Model | Air Flow | ESP (Pa) | | | | Motor power | | Sound level |
|-------|----------|----------|--------|--------|--------|-------------|------|-------------|
| | | DH2 | | DH3 | | DH2 | DH3 | |
| TAD | m³/h | 4 rows | 6 rows | 4 rows | 6 rows | kW | | dB(A) |
| 020D | 2000 | 220 | 170 | 220 | 170 | 0.55 | 0.75 | 57.0 |
| 030D | 3000 | 220 | 170 | 220 | 170 | 0.75 | 1.1 | 59.0 |
| 040D | 4000 | 220 | 170 | 220 | 170 | 1.1 | 1.5 | 60.0 |
| 050D | 5000 | 220 | 170 | 220 | 170 | 1.5 | 1.5 | 62.0 |
| 060D | 6000 | 220 | 170 | 220 | 170 | 2.2 | 2.2 | 63.0 |
| 070D | 7000 | 270 | 220 | 270 | 220 | 2.2 | 2.2 | 65.0 |
| 080D | 8000 | 270 | 220 | 270 | 220 | 2.2 | 3.0 | 65.0 |
| 090D | 9000 | 270 | 220 | 270 | 220 | 3.0 | 3.0 | 66.0 |
| 105D | 10500 | 270 | 220 | 270 | 220 | 3.0 | 4.0 | 67.0 |
| 120D | 12000 | 270 | 220 | 270 | 220 | 3.0 | 4.0 | 68.0 |
| 135D | 13500 | 270 | 220 | 270 | 220 | 4.0 | 4.0 | 69.0 |
| 150D | 15000 | 270 | 220 | 270 | 220 | 5.5 | 5.5 | 69.0 |
| 180D | 18000 | 320 | 270 | 320 | 270 | 5.5 | 7.5 | 70.0 |
| 210D | 21000 | 320 | 270 | 320 | 270 | 7.5 | 11.0 | 71.0 |
| 240D | 24000 | 320 | 270 | 320 | 270 | 7.5 | 11.0 | 72.0 |
| 270D | 27000 | 420 | 370 | 370 | 320 | 11.0 | 11.0 | 73.0 |
| 300D | 30000 | 420 | 370 | 370 | 320 | 15.0 | 15.0 | 74.0 |
| 330D | 33000 | 420 | 370 | 370 | 320 | 15.0 | 15.0 | 74.0 |
| 350D | 35000 | 420 | 370 | 370 | 320 | 15.0 | 15.0 | 75.0 |
| 400D | 40000 | 420 | 370 | 370 | 320 | 15.0 | 15.0 | 75.0 |
| 450D | 45000 | 420 | 370 | 370 | 320 | 18.5 | 18.5 | 76.0 |
| 500D | 50000 | 420 | 370 | 370 | 320 | 22.0 | 22.0 | 76.0 |

Note:
ESP for option, if needed, please contact factory

Unit ESP and Power (kW)
TAD-DH1(Horizontal type 1)/DV1(Vertical type 1)

| Model TAD | Air Flow (m³/h) | Cooling Coil Rows | ESP(Pa) | | | | | | | | | | | |
|-----------|-----------------|-------------------|---------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 120 | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 | 620 | 670 |
| 020D | 2000 | 4 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | | | | |
| | | 6 | 0.55 | 0.55 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 1.1 | | | | |
| 030D | 3000 | 4 | 0.55 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | | | | |
| | | 6 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | | | | |
| 040D | 4000 | 4 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | | | | |
| | | 6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | | | | |
| 050D | 5000 | 4 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | | | | |
| | | 6 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | | | | |
| 060D | 6000 | 4 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | | | | |
| | | 6 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | | | | |
| 070D | 7000 | 4 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | | |
| | | 6 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | | |
| 080D | 8000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| | | 6 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | | |
| 090D | 9000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | | |
| | | 6 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | | |
| 105D | 10500 | 4 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | | |
| | | 6 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | | |
| 120D | 12000 | 4 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | | |
| | | 6 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | | |
| 135D | 13500 | 4 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | | |
| | | 6 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | | |
| 150D | 15000 | 4 | 3.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | | |
| | | 6 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | | |
| 180D | 18000 | 4 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | | |
| | | 6 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | | |
| 210D | 21000 | 4 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | | |
| | | 6 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| 240D | 24000 | 4 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| | | 6 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| 270D | 27000 | 4 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | |
| | | 6 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | |
| 300D | 30000 | 4 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | | |
| | | 6 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | | |
| 330D | 33000 | 4 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| | | 6 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 |
| 350D | 35000 | 4 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| | | 6 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 |
| 400D | 40000 | 4 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 |
| | | 6 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 |
| 450D | 45000 | 4 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 |
| | | 6 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | |
| 500D | 50000 | 4 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | 22.0 | | | |
| | | 6 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | 22.0 | | | | |

Note:
 ESP for option, if needed, please contact factory

Unit ESP and Power (kW)
TAD-DH2(Horizontal type 2)

| Model TAD | Air Flow (m³/h) | Cooling Coil Rows | ESP(Pa) | | | | | | | | | | | |
|-----------|-----------------|-------------------|---------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 120 | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 | 620 | 670 |
| 020D | 2000 | 4 | 0.55 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | | | | |
| | | 6 | 0.55 | 0.55 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | | | | |
| 030D | 3000 | 4 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | | | | |
| | | 6 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | | | |
| 040D | 4000 | 4 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 2.2 | | | | |
| | | 6 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | | | | |
| 050D | 5000 | 4 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | | | | |
| | | 6 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | | | |
| 060D | 6000 | 4 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | | | | |
| | | 6 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | | | | |
| 070D | 7000 | 4 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | | |
| | | 6 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| 080D | 8000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | |
| | | 6 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | |
| 090D | 9000 | 4 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | | |
| | | 6 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | | |
| 105D | 10500 | 4 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | |
| | | 6 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | |
| 120D | 12000 | 4 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | | |
| | | 6 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | |
| 135D | 13500 | 4 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | | |
| | | 6 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | | |
| 150D | 15000 | 4 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | | |
| | | 6 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | | |
| 180D | 18000 | 4 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | | |
| | | 6 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | | |
| 210D | 21000 | 4 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| | | 6 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| 240D | 24000 | 4 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| | | 6 | 5.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| 270D | 27000 | 4 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | |
| | | 6 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | |
| 300D | 30000 | 4 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | | |
| | | 6 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | | |
| 330D | 33000 | 4 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| | | 6 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 |
| 350D | 35000 | 4 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| | | 6 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 |
| 400D | 40000 | 4 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | |
| | | 6 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 |
| 450D | 45000 | 4 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | |
| | | 6 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | | |
| 500D | 50000 | 4 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | 22.0 | | | | |
| | | 6 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | 22.0 | | | | | |

Note:
 ESP for option, if needed, please contact factory

Unit ESP and Power (kW) TAD-DH3(Horizontal type 3)

| Model TAD | Air Flow (m³/h) | Cooling Coil Rows | ESP(Pa) | | | | | | | | | | | |
|-----------|-----------------|-------------------|---------|------|------|------|------|------|------|------|------|------|-----|-----|
| | | | 120 | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 | 620 | 670 |
| 020D | 2000 | 4 | 0.55 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | | | | |
| | | 6 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | | | | |
| 030D | 3000 | 4 | 0.75 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | | | | |
| | | 6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | | | | | |
| 040D | 4000 | 4 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | | | | |
| | | 6 | 1.1 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | | | | |
| 050D | 5000 | 4 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | | | | |
| | | 6 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | | | | |
| 060D | 6000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | | | | |
| | | 6 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | | | | | |
| 070D | 7000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| | | 6 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | | |
| 080D | 8000 | 4 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | | |
| | | 6 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | | |
| 090D | 9000 | 4 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | |
| | | 6 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | | |
| 105D | 10500 | 4 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | | |
| | | 6 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | | |
| 120D | 12000 | 4 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | | | |
| | | 6 | 3.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | | | | | |
| 135D | 13500 | 4 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | | | |
| | | 6 | 4.0 | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | | | | |
| 150D | 15000 | 4 | 4.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | | |
| | | 6 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | | | |
| 180D | 18000 | 4 | 5.5 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | | |
| | | 6 | 5.5 | 5.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | | |
| 210D | 21000 | 4 | 7.5 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| | | 6 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | |
| 240D | 24000 | 4 | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | | | | | |
| | | 6 | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | | | | | | |
| 270D | 27000 | 4 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | | | |
| | | 6 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | | | | |
| 300D | 30000 | 4 | 11.0 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | | | | |
| | | 6 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | | | | | |
| 330D | 33000 | 4 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | | |
| | | 6 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | | |
| 350D | 35000 | 4 | 11.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | | | |
| | | 6 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | | | |
| 400D | 40000 | 4 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | | |
| | | 6 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | | | |
| 450D | 45000 | 4 | 15.0 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | | | |
| | | 6 | 15.0 | 15.0 | 18.5 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | | | | |
| 500D | 50000 | 4 | 18.5 | 18.5 | 18.5 | 22.0 | 22.0 | 22.0 | | | | | | |
| | | 6 | 18.5 | 18.5 | 22.0 | 22.0 | 22.0 | | | | | | | |

Note:
ESP for option, if needed, please contact factory

TFD-B/D Standard Air Handling Unit--- Ceiling Type Return air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | | ESP | Sound Level | Chilled water pipe | Power supply | Driven type |
|-------|----------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|-----|-------------|--------------------|-----------------|---------------|
| | | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | | | | | |
| TFD | m³/h | kW | kW | l/s | kPa | kW | DN | kW | kW | l/s | kPa | kW | DN | Pa | dB(A) | DN | | |
| 010 | 1000 | 5.1 | 10.2 | 0.24 | 3.0 | 0.18 | 32 | 7.2 | 12.4 | 0.34 | 8.8 | 0.18 | 32 | 80 | 53 | 25 | 380V/ 3~50HZ | Direct driven |
| 015 | 1500 | 8.3 | 15.2 | 0.40 | 9.0 | 0.18 | 32 | 11.0 | 18.5 | 0.52 | 19.5 | 0.25 | 32 | 80 | 53 | 25 | | |
| 020 | 2000 | 11.5 | 21.2 | 0.55 | 11.0 | 0.32 | 32 | 14.9 | 25.3 | 0.71 | 26.0 | 0.32 | 32 | 80 | 55 | 25 | | |
| 025 | 2500 | 14.4 | 26.0 | 0.69 | 18.0 | 0.37 | 32 | 18.2 | 30.8 | 0.87 | 38.0 | 0.45 | 32 | 120 | 56 | 25 | | |
| 030 | 3000 | 17.5 | 32.0 | 0.83 | 31.0 | 0.75 | 32 | 22.0 | 37.3 | 1.05 | 24.0 | 0.75 | 40 | 160 | 59 | 25 | | |
| 040 | 4000 | 23.4 | 41.5 | 1.13 | 60.0 | 1.1 | 40 | 30.1 | 49.1 | 1.43 | 49.5 | 1.1 | 40 | 200 | 60 | 25 | | |
| 050 | 5000 | 28.3 | 51.4 | 1.37 | 40.0 | 1.5 | 40 | 35.2 | 61.8 | 1.68 | 32.0 | 1.5 | 40 | 200 | 62 | 25 | | |
| 060 | 6000 | 34.5 | 61.7 | 1.64 | 43.8 | 1.5 | 40 | 43.7 | 73.9 | 2.08 | 44.0 | 2.2 | 40 | 200 | 63 | 25 | | |
| 070 | 7000 | 40.3 | 71.3 | 1.92 | 58.0 | 2.2 | 40 | 49.4 | 85.3 | 2.35 | 59.0 | 2.2 | 50 | 240 | 64 | 25 | | |
| 080 | 8000 | 46.2 | 83.1 | 2.20 | 26.0 | 2.2 | 40 | 57.6 | 98.3 | 2.74 | 56.0 | 3.0 | 50 | 240 | 64 | 25 | | |
| 090 | 9000 | 52.1 | 93.1 | 2.48 | 34.0 | 3.0 | 40 | 64.8 | 110.3 | 3.09 | 25.4 | 3.0 | 50 | 280 | 66 | 25 | | |
| 105 | 10500 | 59.9 | 108.1 | 2.85 | 51.0 | 3.0 | 50 | 75.1 | 135.3 | 3.58 | 35.8 | 3.0 | 50 | 280 | 67 | 25 | | |
| 120 | 12000 | 69.3 | 131.7 | 3.30 | 54.0 | 4.0 | 50 | 85.8 | 161.1 | 4.09 | 41.6 | 4.0 | 50 | 280 | 68 | 25 | | |
| 135 | 13500 | 76.8 | 146.6 | 3.66 | 43.8 | 4.0 | 50 | 102.3 | 176.4 | 4.87 | 36.3 | 4.0 | 65 | 320 | 68.5 | 32 | | |
| 150 | 15000 | 85.3 | 162.8 | 4.06 | 38.1 | 5.5 | 50 | 108.5 | 189.7 | 5.17 | 34.3 | 5.5 | 65 | 320 | 69 | 32 | | |

Note:
1. Cooling capacity is based on the following:
a) Water temperature : 7° C (inlet)/12° C (outlet)
b) Air entering condition : 27° C DB/19.5° C WB
2. Heating capacity is based on the following (with same water flow rate as cooling cycle):
a) Water temperature : 60° C (inlet)
b) Air entering condition : 15° C DB
3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD-B/D Standard Air Handling Unit--- Ceiling Type Fresh air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | | ESP | Sound Level | Chilled water pipe | Power supply | Driven type |
|-------|----------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|-----|-------------|--------------------|-----------------|---------------|
| | | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | | | | | |
| TFD | m³/h | kW | kW | l/s | kPa | kW | DN | kW | kW | l/s | kPa | kW | DN | Pa | dB(A) | DN | | |
| 010 | 1000 | 13.9 | 13.2 | 0.66 | 16.0 | 0.18 | 32 | 15.8 | 15.6 | 0.75 | 24.7 | 0.18 | 32 | 80 | 53 | 25 | 380V/ 3~50HZ | Direct driven |
| 015 | 1500 | 18.7 | 18.4 | 0.93 | 33.0 | 0.18 | 32 | 24.5 | 23.7 | 1.17 | 66.0 | 0.25 | 32 | 80 | 53 | 25 | | |
| 020 | 2000 | 27.0 | 27.5 | 1.29 | 43.0 | 0.32 | 32 | 31.2 | 31.3 | 1.49 | 31.4 | 0.32 | 32 | 80 | 55 | 25 | | |
| 025 | 2500 | 30.8 | 31.8 | 1.47 | 26.0 | 0.37 | 32 | 40.3 | 39.3 | 1.92 | 47.9 | 0.45 | 40 | 120 | 56 | 25 | | |
| 030 | 3000 | 39.9 | 40.9 | 1.90 | 48.0 | 0.75 | 40 | 45.8 | 45.1 | 2.18 | 33.0 | 0.75 | 40 | 160 | 59 | 25 | | |
| 040 | 4000 | 49.7 | 51.1 | 2.37 | 32.0 | 1.1 | 40 | 63.8 | 61.8 | 3.04 | 65.5 | 1.1 | 50 | 200 | 60 | 25 | | |
| 050 | 5000 | 64.5 | 64.0 | 3.07 | 63.0 | 1.5 | 50 | 75.4 | 70.3 | 3.59 | 41.0 | 1.5 | 50 | 200 | 62 | 25 | | |
| 060 | 6000 | 72.7 | 75.5 | 3.46 | 11.0 | 1.5 | 50 | 92.6 | 91.9 | 4.41 | 47.7 | 2.2 | 50 | 200 | 63 | 25 | | |
| 070 | 7000 | 84.1 | 87.1 | 4.00 | 15.1 | 2.2 | 50 | 105.6 | 104.8 | 5.03 | 68.4 | 2.2 | 65 | 240 | 64 | 25 | | |
| 080 | 8000 | 99.0 | 101.7 | 4.71 | 14.4 | 2.2 | 50 | 120.7 | 119.7 | 5.75 | 63.3 | 3.0 | 65 | 240 | 64 | 25 | | |
| 090 | 9000 | 111.0 | 113.8 | 5.29 | 19.0 | 2.2 | 65 | 137.3 | 135.3 | 6.54 | 37.5 | 3.0 | 65 | 280 | 66 | 25 | | |
| 105 | 10500 | 133.1 | 133.4 | 6.34 | 29.5 | 3.0 | 65 | 160.2 | 157.9 | 7.63 | 57.9 | 3.0 | 80 | 280 | 67 | 25 | | |
| 120 | 12000 | 149.4 | 155.1 | 7.12 | 32.5 | 4.0 | 65 | 185.2 | 180.4 | 8.20 | 68.8 | 4.0 | 80 | 280 | 68 | 25 | | |
| 135 | 13500 | 165.8 | 180.2 | 7.90 | 27.7 | 4.0 | 80 | 222.6 | 213.4 | 9.84 | 57.4 | 4.0 | 80 | 320 | 68.5 | 32 | | |
| 150 | 15000 | 184.2 | 200.2 | 8.77 | 27.2 | 5.5 | 80 | 244.7 | 237.1 | 10.65 | 56.6 | 5.5 | 80 | 320 | 69 | 32 | | |

Note:
1. Cooling capacity is based on the following:
a) Water temperature : 7° C (inlet)/12° C (outlet)
b) Air entering condition : 35° C DB/28° C WB
2. Heating capacity is based on the following (with same water flow rate as cooling cycle):
a) Water temperature : 60° C (inlet)
b) Air entering condition : 7° C DB
3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD Standard Air Handling Unit--- Ceiling Type Separate Heating Coil Return air condition

| Model | Air Flow | 1 row | | | | 2 row | | | |
|-------|-------------------|------------------------|-----------------|---------------|----------------|------------------------|-----------------|---------------|----------------|
| | | Rated heating capacity | Water flow rate | Pressure drop | Hot water pipe | Rated heating capacity | Water flow rate | Pressure drop | Hot water pipe |
| TFD | m ³ /h | kW | l/s | kPa | DN | kW | l/s | kPa | DN |
| 010 | 1000 | 3.0 | 0.1 | 0.17 | 32 | 6.2 | 0.2 | 0.87 | 32 |
| 015 | 1500 | 4.3 | 0.1 | 0.19 | 32 | 9.9 | 0.3 | 2.1 | 32 |
| 020 | 2000 | 6.7 | 0.2 | 0.59 | 32 | 13.4 | 0.4 | 3.0 | 32 |
| 025 | 2500 | 8.2 | 0.2 | 0.63 | 32 | 16.4 | 0.4 | 3.3 | 32 |
| 030 | 3000 | 10.9 | 0.3 | 1.4 | 32 | 20.2 | 0.5 | 5.3 | 32 |
| 040 | 4000 | 14.8 | 0.4 | 1.5 | 32 | 27.7 | 0.7 | 6.5 | 32 |
| 050 | 5000 | 19.1 | 0.5 | 2.5 | 32 | 35.2 | 0.9 | 11.6 | 32 |
| 060 | 6000 | 23.2 | 0.6 | 3.0 | 32 | 43.0 | 1.1 | 14.2 | 32 |
| 070 | 7000 | 27.6 | 0.7 | 4.3 | 32 | 49.7 | 1.2 | 18.2 | 32 |
| 080 | 8000 | 31.5 | 0.8 | 4.0 | 32 | 57.3 | 1.4 | 18.2 | 32 |
| 090 | 9000 | 36.0 | 0.9 | 5.3 | 32 | 65.0 | 1.6 | 24.9 | 32 |
| 105 | 10500 | 42.6 | 1.1 | 8.4 | 32 | 76.4 | 1.8 | 34.0 | 32 |
| 120 | 12000 | 49.4 | 1.3 | 9.9 | 32 | 87.3 | 2.1 | 38.8 | 32 |
| 135 | 13500 | 55.6 | 1.5 | 9.8 | 32 | 98.2 | 2.4 | 36.2 | 32 |
| 150 | 15000 | 60.8 | 1.6 | 10.0 | 32 | 108.3 | 2.6 | 37.7 | 32 |

- Note:
- Heating capacity is based on the following:
 - Water temperature : 60° C (inlet)/50° C (outlet)
 - Air entering condition : 15° C DB
 - Pressure drop of heating coil is 25Pa per row, when add heating coil, please increase pressure drop.
 - The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD Standard Air Handling Unit--- Ceiling Type Separate Heating Coil Fresh air condition

| Model | Air Flow | 1 row | | | | 2 row | | | |
|-------|-------------------|------------------------|-----------------|---------------|----------------|------------------------|-----------------|---------------|----------------|
| | | Rated heating capacity | Water flow rate | Pressure drop | Hot water pipe | Rated heating capacity | Water flow rate | Pressure drop | Hot water pipe |
| TFD | m ³ /h | kW | l/s | kPa | DN | kW | l/s | kPa | DN |
| 010 | 1000 | 4.3 | 0.2 | 0.64 | 32 | 7.3 | 0.2 | 0.87 | 32 |
| 015 | 1500 | 6.3 | 0.2 | 0.69 | 32 | 11.6 | 0.3 | 2.1 | 32 |
| 020 | 2000 | 8.9 | 0.3 | 1.3 | 32 | 16.5 | 0.5 | 4.5 | 32 |
| 025 | 2500 | 10.9 | 0.3 | 1.4 | 32 | 20.2 | 0.5 | 4.9 | 32 |
| 030 | 3000 | 13.7 | 0.4 | 2.5 | 32 | 25.3 | 0.7 | 9.9 | 32 |
| 040 | 4000 | 18.3 | 0.5 | 2.3 | 32 | 33.7 | 0.9 | 10.3 | 32 |
| 050 | 5000 | 24.2 | 0.7 | 4.7 | 32 | 42.9 | 1.1 | 16.7 | 32 |
| 060 | 6000 | 29.1 | 0.8 | 5.1 | 32 | 51.4 | 1.3 | 19.2 | 32 |
| 070 | 7000 | 33.9 | 0.9 | 6.9 | 32 | 61.0 | 1.5 | 27.1 | 32 |
| 080 | 8000 | 39.3 | 1.1 | 7.2 | 32 | 69.7 | 1.7 | 25.7 | 32 |
| 090 | 9000 | 44.3 | 1.2 | 9.0 | 32 | 78.4 | 1.9 | 33.8 | 32 |
| 105 | 10500 | 52.4 | 1.4 | 13.0 | 32 | 93.0 | 2.3 | 52.5 | 32 |
| 120 | 12000 | 60.7 | 1.6 | 14.5 | 32 | 106.2 | 2.6 | 56.7 | 32 |
| 135 | 13500 | 67.3 | 1.8 | 13.6 | 32 | 119.5 | 3.0 | 54.0 | 32 |
| 150 | 15000 | 73.8 | 1.9 | 13.7 | 32 | 130.7 | 3.2 | 54.7 | 32 |

- Note:
- Heating capacity is based on the following:
 - Water temperature : 60° C (inlet)/50° C (outlet)
 - Air entering condition : 7° C DB
 - Pressure drop of heating coil is 25Pa per row, when add heating coil, please increase pressure drop.
 - The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD-C Standard Air Handling Unit--- Ceiling Type 3 Speed Return air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | | Sound level | Condensing water pipe | High power input | Rated current | Power supply | Driven type | | | | | | | |
|-------|-------------------|------------------------|------------------------|-----------------|---------------|------|--------------------|------------------------|------------------------|-----------------|---------------|-----|--------------------|-------------|-----------------------|------------------|---------------|--------------|-------------|---------|--|--|--|--|--|--|
| | | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | ESP | Chilled water pipe | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | ESP | Chilled water pipe | | | | | | | | | | | | | |
| | | kW | kW | l/s | kPa | Pa | DN | kW | kW | l/s | kPa | Pa | DN | | | | | | | | | | | | | |
| TFD | m ³ /h | kW | kW | l/s | kPa | Pa | DN | kW | kW | l/s | kPa | Pa | DN | dB(A) | DN | kW | A | | | | | | | | | |
| 010 | High | 1000 | 5.1 | 10.2 | 0.24 | 3.0 | 140 | | | | | | | 32 | 52 | 25 | 0.35 | 1.4 | | | | | | | | |
| | Medium | 830 | 4.2 | 8.6 | 0.20 | 2.3 | 110 | 7.2 | 12.4 | 0.34 | 8.8 | 80 | | | | | | | | | | | | | | |
| | Low | 564 | 3.5 | 6.5 | 0.17 | 1.8 | 90 | 6.0 | 10.5 | 0.28 | 6.8 | 65 | | | | | | | | | | | | | | |
| 015 | High | 1500 | 8.3 | 15.2 | 0.40 | 9.0 | 140 | | | | | | | 32 | 52 | 25 | 0.45 | 1.7 | | | | | | | | |
| | Medium | 1245 | 6.8 | 12.9 | 0.32 | 6.9 | 110 | 11.0 | 18.5 | 0.52 | 19.5 | 80 | | | | | | | | | | | | | | |
| | Low | 847 | 5.6 | 10.0 | 0.26 | 5.3 | 90 | 9.1 | 15.9 | 0.43 | 15.0 | 65 | | | | | | | | | | | | | | |
| 020 | High | 2000 | 11.5 | 21.2 | 0.55 | 11.0 | 140 | | | | | | | 32 | 54 | 25 | 0.5 | 3.2 | | | | | | | | |
| | Medium | 1660 | 9.5 | 18.2 | 0.45 | 8.5 | 110 | 14.9 | 25.3 | 0.71 | 26.0 | 80 | | | | | | | | | | | | | | |
| | Low | 1129 | 7.8 | 13.6 | 0.37 | 6.5 | 90 | 12.2 | 21.8 | 0.58 | 20.0 | 65 | | | | | | | | | | | | | | |
| 025 | High | 2500 | 14.4 | 26.0 | 0.69 | 18.0 | 190 | | | | | | | 32 | 55 | 25 | 0.7 | 3.5 | | | | | | | | |
| | Medium | 2075 | 12.0 | 22.6 | 0.57 | 13.9 | 150 | 18.2 | 30.8 | 0.87 | 38.0 | 130 | | | | | | | | | | | | | | |
| | Low | 1411 | 9.8 | 16.9 | 0.47 | 10.6 | 120 | 12.4 | 19.4 | 0.59 | 22.4 | 85 | | | | | | | | | | | | | | |
| 030 | High | 3000 | 17.5 | 32.0 | 0.83 | 31.0 | 190 | | | | | | | 40 | 57 | 25 | 0.7 | 3.5 | 220V/1~50Hz | 3-speed | | | | | | |
| | Medium | 2490 | 14.4 | 27.8 | 0.68 | 23.9 | 150 | 22.0 | 37.3 | 1.05 | 24.0 | 130 | | | | | | | | | | | | | | |
| | Low | 1693 | 11.9 | 20.8 | 0.57 | 18.3 | 120 | 18.3 | 32.1 | 0.87 | 18.5 | 105 | | | | | | | | | | | | | | |
| 040 | High | 4000 | 23.4 | 41.5 | 1.13 | 60.0 | 160 | | | | | | | 40 | 58 | 25 | 1.0 | 5.0 | | | | | | | | |
| | Medium | 3320 | 19.4 | 36.1 | 0.92 | 46.2 | 130 | 30.1 | 49.1 | 1.43 | 49.5 | 100 | | | | | | | | | | | | | | |
| | Low | 2258 | 15.9 | 27.0 | 0.76 | 35.4 | 100 | 25.0 | 42.2 | 1.19 | 38.1 | 80 | | | | | | | | | | | | | | |
| 050 | High | 5000 | 28.3 | 51.4 | 1.37 | 40.0 | 160 | | | | | | | 40 | 60 | 25 | 1.4 | 7.0 | | | | | | | | |
| | Medium | 4150 | 23.2 | 43.7 | 1.11 | 30.8 | 130 | 35.2 | 61.8 | 1.68 | 32.0 | 100 | | | | | | | | | | | | | | |
| | Low | 2822 | 19.2 | 33.4 | 0.92 | 23.6 | 100 | 20.5 | 30.9 | 0.97 | 29.2 | 65 | | | | | | | | | | | | | | |
| 060 | High | 6000 | 34.5 | 61.7 | 1.64 | 43.8 | 220 | | | | | | | 40 | 62 | 25 | 2.3 | 9.0 | | | | | | | | |
| | Medium | 4980 | 28.6 | 53.7 | 1.36 | 33.7 | 175 | 43.7 | 73.9 | 2.08 | 44.0 | 160 | | | | | | | | | | | | | | |
| | Low | 3386 | 23.5 | 40.1 | 1.12 | 25.8 | 140 | 36.3 | 62.8 | 1.73 | 33.9 | 130 | | | | | | | | | | | | | | |
| 070 | High | 7000 | 40.3 | 71.3 | 1.92 | 58.0 | 260 | | | | | | | 50 | 62 | 25 | 2.7 | 12.0 | | | | | | | | |
| | Medium | 5810 | 33.4 | 61.3 | 1.59 | 75.3 | 210 | 49.4 | 85.3 | 2.35 | 59.0 | 200 | | | | | | | | | | | | | | |
| | Low | 3951 | 27.4 | 46.3 | 1.30 | 34.2 | 165 | 40.5 | 73.4 | 1.93 | 45.4 | 160 | | | | | | | | | | | | | | |

- Note:
- Cooling capacity is based on the following:
 - Water temperature : 7° C (inlet)/12° C (outlet)
 - Air entering condition : 27° C DB/19.5° C WB
 - Heating capacity is based on the following :
 - Water temperature : 60° C (inlet)/50° C (outlet)
 - Air entering condition : 7° C DB
 - The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD-C Standard Air Handling Unit--- Ceiling Type 3 Speed Fresh air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | | Sound level | Condensing water pipe | High power input | Rated current | Power supply | Driven type |
|-------|----------|------------------------|------------------------|-----------------|---------------|------|--------------------|------------------------|------------------------|-----------------|---------------|-----|--------------------|-------------|-----------------------|------------------|---------------|--------------|---------------|
| | | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | ESP | Chilled water pipe | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | ESP | Chilled water pipe | | | | | | |
| TFD | m³/h | kW | kW | l/s | kPa | Pa | DN | kW | kW | l/s | kPa | Pa | DN | dB(A) | DN | kW | A | | |
| 010 | High | 1000 | 13.9 | 13.2 | 0.66 | 16.0 | 140 | 15.8 | 15.6 | 0.75 | 24.7 | 80 | 32 | 52 | 25 | 0.35 | 1.4 | 220V/1~50HZ | Direct driven |
| | Medium | 830 | 11.4 | 11.5 | 0.54 | 12.3 | 110 | 13.1 | 13.1 | 0.62 | 18.3 | 65 | 32 | 52 | 25 | 0.35 | 1.4 | | |
| | Low | 564 | 9.5 | 8.4 | 0.45 | 9.4 | 90 | 10.7 | 9.0 | 0.51 | 13.4 | 50 | 32 | 52 | 25 | 0.35 | 1.4 | | |
| 015 | High | 1500 | 18.7 | 18.4 | 0.93 | 33.0 | 140 | 24.5 | 23.7 | 1.17 | 66.0 | 80 | 32 | 52 | 25 | 0.45 | 1.7 | | |
| | Medium | 1245 | 15.5 | 15.2 | 0.77 | 25.4 | 110 | 20.3 | 19.9 | 0.97 | 48.9 | 65 | 32 | 52 | 25 | 0.45 | 1.7 | | |
| | Low | 847 | 12.7 | 12.5 | 0.63 | 19.5 | 90 | 16.7 | 14.0 | 0.79 | 35.3 | 50 | 32 | 52 | 25 | 0.45 | 1.7 | | |
| 020 | High | 2000 | 27.0 | 27.5 | 1.29 | 43.0 | 140 | 31.2 | 31.3 | 1.49 | 31.4 | 80 | 32 | 54 | 25 | 0.5 | 3.2 | | |
| | Medium | 1660 | 22.4 | 23.7 | 1.07 | 33.1 | 110 | 25.9 | 26.6 | 1.23 | 23.2 | 65 | 32 | 54 | 25 | 0.5 | 3.2 | | |
| | Low | 1129 | 18.4 | 17.3 | 0.87 | 25.4 | 90 | 21.2 | 18.8 | 1.01 | 17.0 | 50 | 32 | 54 | 25 | 0.5 | 3.2 | | |
| 025 | High | 2500 | 30.8 | 31.8 | 1.47 | 26.0 | 190 | 40.3 | 39.3 | 1.92 | 47.9 | 130 | 40 | 55 | 25 | 0.7 | 3.5 | | |
| | Medium | 2075 | 25.6 | 27.7 | 1.22 | 20.0 | 150 | 33.4 | 33.4 | 1.59 | 35.5 | 105 | 40 | 55 | 25 | 0.7 | 3.5 | | |
| | Low | 1411 | 20.9 | 20.4 | 1.00 | 15.3 | 120 | 27.4 | 24.0 | 1.30 | 25.8 | 85 | 40 | 55 | 25 | 0.7 | 3.5 | | |
| 030 | High | 3000 | 39.9 | 40.9 | 1.90 | 48.0 | 190 | 45.8 | 45.1 | 2.18 | 33.0 | 130 | 40 | 57 | 25 | 0.7 | 3.5 | | |
| | Medium | 2490 | 33.1 | 35.6 | 1.58 | 37.0 | 150 | 38.0 | 38.3 | 1.81 | 24.5 | 105 | 40 | 57 | 25 | 0.7 | 3.5 | | |
| | Low | 1693 | 27.1 | 26.2 | 1.29 | 28.3 | 120 | 31.1 | 27.5 | 1.48 | 17.8 | 85 | 40 | 57 | 25 | 0.7 | 3.5 | | |
| 040 | High | 4000 | 49.7 | 51.1 | 2.37 | 32.0 | 160 | 63.8 | 61.8 | 3.04 | 65.5 | 100 | 50 | 58 | 25 | 1.0 | 5.0 | | |
| | Medium | 3320 | 41.3 | 44.5 | 1.96 | 24.6 | 130 | 53.0 | 52.5 | 2.52 | 48.6 | 80 | 50 | 58 | 25 | 1.0 | 5.0 | | |
| | Low | 2258 | 33.8 | 33.2 | 1.61 | 18.9 | 100 | 42.7 | 37.1 | 2.04 | 34.7 | 65 | 50 | 58 | 25 | 1.0 | 5.0 | | |
| 050 | High | 5000 | 64.5 | 64.0 | 3.07 | 63.0 | 160 | 75.4 | 70.3 | 3.59 | 41.0 | 100 | 50 | 60 | 25 | 1.4 | 7.0 | | |
| | Medium | 4150 | 53.5 | 55.7 | 2.55 | 48.5 | 130 | 62.6 | 58.4 | 2.98 | 30.5 | 80 | 50 | 60 | 25 | 1.4 | 7.0 | | |
| | Low | 2822 | 43.9 | 41.0 | 2.09 | 37.2 | 100 | 51.3 | 47.8 | 2.44 | 22.2 | 65 | 50 | 60 | 25 | 1.4 | 7.0 | | |
| 060 | High | 6000 | 72.7 | 75.5 | 3.46 | 11.0 | 220 | 92.6 | 91.9 | 4.41 | 47.7 | 160 | 50 | 62 | 25 | 2.3 | 9.0 | | |
| | Medium | 4980 | 60.3 | 65.7 | 2.87 | 8.5 | 175 | 76.9 | 78.1 | 3.66 | 35.4 | 130 | 50 | 62 | 25 | 2.3 | 9.0 | | |
| | Low | 3386 | 49.4 | 48.3 | 2.35 | 6.5 | 140 | 63.0 | 55.1 | 3.00 | 25.8 | 105 | 50 | 62 | 25 | 2.3 | 9.0 | | |
| 070 | High | 7000 | 84.1 | 87.1 | 4.00 | 15.1 | 260 | 105.6 | 104.8 | 5.03 | 68.4 | 200 | 65 | 62 | 25 | 2.7 | 12.0 | | |
| | Medium | 5810 | 69.0 | 75.8 | 3.28 | 11.6 | 210 | 87.6 | 89.1 | 4.17 | 50.7 | 160 | 65 | 62 | 25 | 2.7 | 12.0 | | |
| | Low | 3951 | 57.2 | 55.7 | 2.72 | 8.9 | 165 | 71.8 | 62.9 | 3.42 | 37.0 | 130 | 65 | 62 | 25 | 2.7 | 12.0 | | |

Note:
 1. Cooling capacity is based on the following:
 a) Water temperature : 7° C (inlet)/12° C (outlet)
 b) Air entering condition : 35° C DB/28° C WB
 2. Heating capacity is based on the following :
 a) Water temperature : 60° C (inlet)/50° C (outlet)
 b) Air entering condition : 7° C DB
 3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD-S Standard Air Handling Unit---Jet Type Return air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | | Condensate water pipe | Power supply | Driven type |
|-------|----------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|-----------------------|--------------|---------------|
| | | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | | | |
| TFD | m³/h | kW | kW | l/s | kPa | kW | DN | kW | kW | l/s | kPa | kW | DN | DN | | |
| 010 | 1000 | 5.1 | 10.2 | 0.24 | 3.0 | 0.25 | 32 | 7.2 | 12.4 | 0.34 | 8.8 | 0.25 | 32 | 25 | 380V/3~50HZ | Direct driven |
| 020 | 2000 | 11.5 | 21.2 | 0.55 | 11.0 | 0.32 | 32 | 14.9 | 25.3 | 0.71 | 26.0 | 0.32 | 32 | 25 | | |
| 030 | 3000 | 17.5 | 32.0 | 0.83 | 31.0 | 1.1 | 32 | 22.0 | 37.3 | 1.05 | 24.0 | 1.1 | 32 | 25 | | |
| 040 | 4000 | 23.4 | 41.5 | 1.13 | 60.0 | 1.1 | 40 | 30.1 | 49.1 | 1.43 | 49.5 | 1.1 | 40 | 25 | | |
| 050 | 5000 | 28.3 | 51.4 | 1.37 | 40.0 | 1.5 | 40 | 35.2 | 61.8 | 1.68 | 32.0 | 2.2 | 40 | 25 | | |
| 060 | 6000 | 34.5 | 61.7 | 1.64 | 43.8 | 1.5 | 40 | 43.7 | 73.9 | 2.08 | 44.0 | 2.2 | 40 | 25 | | |
| 070 | 7000 | 40.3 | 71.3 | 1.92 | 58.0 | 1.5 | 40 | 49.4 | 85.3 | 2.35 | 59.0 | 2.2 | 50 | 25 | | |
| 080 | 8000 | 46.2 | 83.1 | 2.20 | 26.0 | 2.2 | 40 | 57.6 | 98.3 | 2.74 | 56.0 | 3.0 | 50 | 25 | | |
| 090 | 9000 | 52.1 | 93.1 | 2.48 | 34.0 | 2.2 | 40 | 64.8 | 110.3 | 3.09 | 25.4 | 3.0 | 50 | 25 | | |
| 105 | 10500 | 59.9 | 108.1 | 2.85 | 51.0 | 3.0 | 50 | 75.1 | 135.3 | 3.58 | 35.8 | 3.0 | 50 | 25 | | |
| 120 | 12000 | 69.3 | 131.7 | 3.30 | 54.0 | 4.0 | 50 | 85.8 | 161.1 | 4.09 | 41.6 | 4.0 | 50 | 25 | | |

Note:
 1. Cooling capacity is based on the following:
 a) Water temperature : 7° C (inlet)/12° C (outlet)
 b) Air entering condition : 27° C DB/19.5° C WB
 2. Heating capacity is based on the following :
 a) Water temperature : 60° C (inlet)/50° C (outlet)
 b) Air entering condition : 7° C DB
 3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.
 4. ESP is 0

TFD-S Standard Air Handling Unit---Jet Type Fresh air condition

| Model | Air Flow | 4 rows | | | | | | 6 rows | | | | | | Condensate water pipe | Power supply | Driven type |
|-------|----------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|------------------------|------------------------|-----------------|---------------|-------------|--------------------|-----------------------|--------------|---------------|
| | | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | Rated cooling capacity | Rated heating capacity | Water flow rate | Pressure drop | Motor power | Chilled water pipe | | | |
| TFD | m³/h | kW | kW | l/s | kPa | kW | DN | kW | kW | l/s | kPa | kW | DN | DN | | |
| 010 | 1000 | 13.9 | 13.2 | 0.66 | 16.0 | 0.25 | 32 | 15.8 | 15.6 | 0.75 | 24.7 | 0.25 | 32 | 25 | 380V/3~50HZ | Direct driven |
| 020 | 2000 | 27.0 | 27.5 | 1.29 | 43.0 | 0.32 | 32 | 31.2 | 31.3 | 1.49 | 31.4 | 0.32 | 32 | 25 | | |
| 030 | 3000 | 39.9 | 40.9 | 1.90 | 48.0 | 1.1 | 40 | 45.8 | 45.1 | 2.18 | 33.0 | 1.1 | 40 | 25 | | |
| 040 | 4000 | 49.7 | 51.1 | 2.37 | 32.0 | 1.1 | 40 | 63.8 | 61.8 | 3.04 | 65.5 | 1.1 | 50 | 25 | | |
| 050 | 5000 | 64.5 | 64.0 | 3.07 | 63.0 | 1.5 | 50 | 75.4 | 70.3 | 3.59 | 41.0 | 2.2 | 50 | 25 | | |
| 060 | 6000 | 72.7 | 75.5 | 3.46 | 11.0 | 1.5 | 50 | 92.6 | 91.9 | 4.41 | 47.7 | 2.2 | 50 | 25 | | |
| 070 | 7000 | 84.1 | 87.1 | 4.00 | 15.1 | 1.5 | 50 | 105.6 | 104.8 | 5.03 | 68.4 | 2.2 | 65 | 25 | | |
| 080 | 8000 | 99.0 | 101.7 | 4.71 | 14.4 | 2.2 | 50 | 120.7 | 119.7 | 5.75 | 63.3 | 3.0 | 65 | 25 | | |
| 090 | 9000 | 111.0 | 113.8 | 5.29 | 19.0 | 2.2 | 65 | 137.3 | 135.3 | 6.54 | 37.5 | 3.0 | 65 | 25 | | |
| 105 | 10500 | 133.1 | 133.4 | 6.34 | 29.5 | 3.0 | 65 | 160.2 | 157.9 | 7.63 | 57.9 | 3.0 | 65 | 25 | | |
| 120 | 12000 | 149.4 | 155.1 | 7.12 | 32.5 | 4.0 | 65 | 185.2 | 180.4 | 8.20 | 68.8 | 4.0 | 65 | 25 | | |

Note:
 1. Cooling capacity is based on the following:
 a) Water temperature : 7° C (inlet)/12° C (outlet)
 b) Air entering condition : 35° C DB/28° C WB
 2. Heating capacity is based on the following :
 a) Water temperature : 60° C (inlet)/50° C (outlet)
 b) Air entering condition : 7° C DB
 3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.
 4. ESP is 0

TFD-J Standard Air Handling Unit---Heat Recovery Type with 2 rows coil

| Model | Air Flow | Cooling Capacity | | | Heating Capacity | | | Water flow rate | Water Pressure drop | ESP | | Rated Power | | | Sound level | |
|--------|----------|------------------|------|------|------------------|------|------|-----------------|---------------------|--------|---------|-------------|---------|---------|-------------|-------|
| | | Q1 | Q2 | Q3 | Q1 | Q2 | Q3 | | | Supply | Exhaust | Supply | Exhaust | Voltage | | |
| TFD-EC | m³/h | kW | kW | kW | kW | kW | kW | l/s | kPa | Pa | | kW | | | V | dB(A) |
| 010EC | 1000 | 11.0 | 6.8 | 4.2 | 12.0 | 6.4 | 5.7 | 0.2 | 13 | 40 | 80 | 0.25 | 0.32 | 380 | 53 | |
| 015EC | 1500 | 16.7 | 10.2 | 6.5 | 18.3 | 9.5 | 8.8 | 0.3 | 15 | 80 | 80 | 0.25 | 0.25 | | 53 | |
| 020EC | 2000 | 22.7 | 13.6 | 9.1 | 25.0 | 12.7 | 12.3 | 0.4 | 13 | 110 | 60 | 0.32 | 0.32 | | 55 | |
| 025EC | 2500 | 27.8 | 17.0 | 10.8 | 30.5 | 15.9 | 14.6 | 0.5 | 29 | 80 | 60 | 0.55 | 0.55 | | 56 | |
| 030EC | 3000 | 35.2 | 20.4 | 14.8 | 39.1 | 19.1 | 20.0 | 0.7 | 56 | 170 | 50 | 0.75 | 0.75 | | 58 | |
| 040EC | 4000 | 47.6 | 27.2 | 20.4 | 53.0 | 25.5 | 27.5 | 1.0 | 55 | 170 | 50 | 1.00 | 0.90 | | 60 | |
| 050EH | 5000 | 59.1 | 34.0 | 25.1 | 65.7 | 31.8 | 33.9 | 1.2 | 58 | 190 | 50 | 1.50 | 1.50 | | 62 | |
| 060EH | 6000 | 70.4 | 40.8 | 29.6 | 78.2 | 38.2 | 40.0 | 1.4 | 56 | 170 | 50 | 0.75*2 | 0.75*2 | | 61 | |
| 080EH | 8000 | 95.2 | 54.4 | 40.8 | 106.0 | 50.9 | 55.1 | 2.0 | 55 | 170 | 50 | 1.0*2 | 1.0*2 | | 62 | |
| 105EH | 10500 | 124.1 | 71.4 | 52.7 | 138.0 | 66.8 | 71.2 | 2.5 | 58 | 190 | 50 | 1.5*2 | 1.5*2 | | 65 | |

Note

1. Cooling condition: Fresh air 35°C DB/ 28°C WB, return air 27°C DB/ 19.5°C WB, chilled water entering and leaving 7/12°C;
2. Heating condition: Fresh air -7°C DB, return air 20°C DB, hot water entering and leaving 60/50 °C;
3. Q1=Q2+Q3, Q1: Total load, Q2: Recovery Load, Q3: Capacity from chiller or boiler;
4. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD-J Standard Air Handling Unit---Heat Recovery Type with 4 rows coil

| Model | Air Flow | Cooling Capacity | | | Heating Capacity | | | Water flow rate | Water Pressure drop | ESP | | Rated Power | | | Sound level | |
|-------|----------|------------------|------|------|------------------|------|-------|-----------------|---------------------|--------|---------|-------------|---------|---------|-------------|-------|
| | | Q1 | Q2 | Q3 | Q1 | Q2 | Q3 | | | Supply | Exhaust | Supply | Exhaust | Voltage | | |
| TFD | m³/h | kW | kW | kW | kW | kW | kW | l/s | kPa | Pa | | kW | | | V | dB(A) |
| 015EC | 1500 | 21.3 | 10.2 | 11.1 | 24.5 | 9.5 | 14.9 | 0.5 | 32 | 80 | 60 | 0.32 | 0.25 | 380 | 53 | |
| 020EC | 2000 | 29.1 | 13.6 | 15.5 | 33.6 | 12.7 | 20.9 | 0.7 | 25 | 120 | 60 | 0.55 | 0.32 | | 55 | |
| 025EC | 2500 | 35.4 | 17.0 | 18.4 | 40.7 | 15.9 | 24.8 | 0.9 | 43 | 100 | 100 | 1.00 | 1.00 | | 56 | |
| 030EC | 3000 | 45.6 | 20.4 | 25.2 | 53.1 | 19.1 | 34.0 | 1.2 | 54 | 120 | 120 | 0.75 | 0.75 | | 58 | |
| 040EC | 4000 | 61.9 | 27.2 | 34.7 | 72.3 | 25.5 | 46.8 | 1.7 | 58 | 120 | 120 | 1.00 | 1.00 | | 60 | |
| 050EH | 5000 | 76.7 | 34.0 | 42.7 | 89.4 | 31.8 | 57.6 | 2.0 | 59 | 140 | 140 | 1.50 | 1.50 | | 62 | |
| 060EH | 6000 | 91.1 | 40.8 | 50.3 | 106.1 | 38.2 | 67.9 | 2.4 | 54 | 120 | 120 | 0.75*2 | 0.75*2 | | 61 | |
| 080EH | 8000 | 123.8 | 54.4 | 69.4 | 144.5 | 50.9 | 93.6 | 3.4 | 58 | 120 | 120 | 1.0*2 | 1.0*2 | | 62 | |
| 105EH | 10500 | 161.0 | 71.4 | 89.6 | 187.8 | 66.8 | 121.0 | 4.3 | 59 | 140 | 140 | 1.5*2 | 1.5*2 | | 65 | |

Note

1. Cooling condition: Fresh air 35°C DB/ 28°C WB, return air 27°C DB/ 19.5°C WB, chilled water entering and leaving 7/12°C;
2. Heating condition: Fresh air -7°C DB, return air 20°C DB, hot water entering and leaving 60/50 °C;
3. Q1=Q2+Q3, Q1: Total load, Q2: Recovery Load, Q3: Capacity from chiller or boiler;
4. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

TFD-J Standard Air Handling Unit---Heat Recovery Type without coil

| Model | Air Flow | Cooling Capacity | Heating Capacity | ESP | | Rated Power | | | Sound level | |
|-------|----------|------------------|------------------|--------|---------|-------------|---------|---------|-------------|-------|
| | | | | Supply | Exhaust | Supply | Exhaust | Voltage | | |
| TFD | m³/h | kW | kW | Pa | | kW | | | V | dB(A) |
| 010EC | 1000 | 6.8 | 6.7 | 90 | 80 | 0.25 | 0.25 | 380 | 53 | |
| 015EC | 1500 | 10.2 | 10.1 | 90 | 70 | 0.25 | 0.25 | | 53 | |
| 020EC | 2000 | 13.6 | 13.5 | 110 | 60 | 0.32 | 0.32 | | 55 | |
| 025EC | 2500 | 17.0 | 16.8 | 110 | 60 | 0.55 | 0.45 | | 56 | |
| 030EC | 3000 | 20.4 | 20.2 | 100 | 80 | 0.75 | 0.55 | | 58 | |
| 040EC | 4000 | 27.2 | 26.9 | 110 | 80 | 0.90 | 1.00 | | 59 | |
| 050EH | 5000 | 34.0 | 33.7 | 100 | 70 | 1.50 | 1.10 | | 62 | |
| 060EH | 6000 | 40.8 | 40.4 | 110 | 80 | 1.50 | 1.10 | | 62 | |
| 080EH | 8000 | 54.4 | 53.9 | 110 | 80 | 1.80 | 2.00 | | 63 | |
| 105EH | 10500 | 71.4 | 70.7 | 100 | 70 | 3.00 | 2.20 | | 66 | |

Note

1. Cooling condition: Fresh air 35°C DB/ 28°C WB, return air 27°C DB/ 19.5°C WB, chilled water entering and leaving 7/12°C;
2. Heating condition: Fresh air -7°C DB, return air 20°C DB, hot water entering and leaving 60/50 °C;
3. The manufacturer reserves the rights to make changes to the above specifications without prior notice.

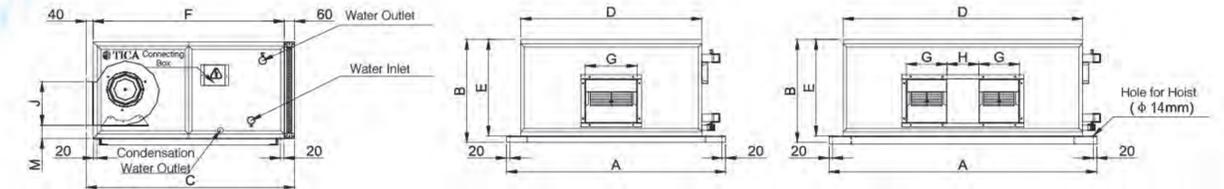
TFD-B/D Unit ESP and Power (kW)

| Model TFD | Air Flow (m³/h) | Cooling Coil Rows | ESP(Pa) | | | | | | | |
|-----------|-----------------|-------------------|---------|------|------|------|------|------|-----|-----|
| | | | 80 | 120 | 160 | 200 | 240 | 280 | 320 | |
| 010 | 1000 | 4 | 0.18 | 0.18 | 0.25 | 0.25 | | | | |
| | | 6 | 0.18 | 0.25 | 0.25 | 0.25 | | | | |
| 015 | 1500 | 4 | 0.18 | 0.25 | 0.25 | 0.25 | 0.25 | | | |
| | | 6 | 0.25 | 0.25 | 0.25 | 0.25 | 0.32 | | | |
| 020 | 2000 | 4 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | | |
| | | 6 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.37 | | |
| 025 | 2500 | 4 | 0.32 | 0.37 | 0.45 | 0.45 | 0.45 | 0.55 | | |
| | | 6 | 0.37 | 0.45 | 0.45 | 0.45 | 0.55 | 0.55 | | |
| 030 | 3000 | 4 | 0.55 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | |
| | | 6 | 0.75 | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 1.1 | |
| 040 | 4000 | 4 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 |
| | | 6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 | 1.5 | 1.5 |
| 050 | 5000 | 4 | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 |
| | | 6 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 |
| 060 | 6000 | 4 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 |
| | | 6 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 070 | 7000 | 4 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | | 6 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 |
| 080 | 8000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 |
| | | 6 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 |
| 090 | 9000 | 4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 |
| | | 6 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 |
| 105 | 10500 | 4 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4 |
| | | 6 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 |
| 120 | 12000 | 4 | | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | | 6 | | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 |
| 135 | 13500 | 4 | | | | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| | | 6 | | | | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 150 | 15000 | 4 | | | | 4.0 | 4.0 | 4.0 | 4.0 | 5.5 |
| | | 6 | | | | 4.0 | 4.0 | 5.5 | 5.5 | 5.5 |

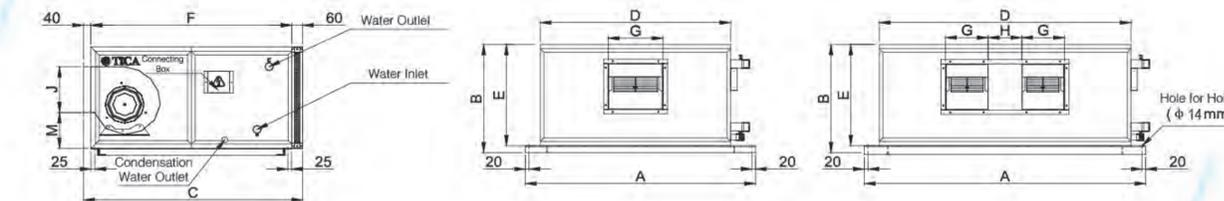
Note:
ESP for option, if needed, please contact factory

Unit Dimension

3 Speeds



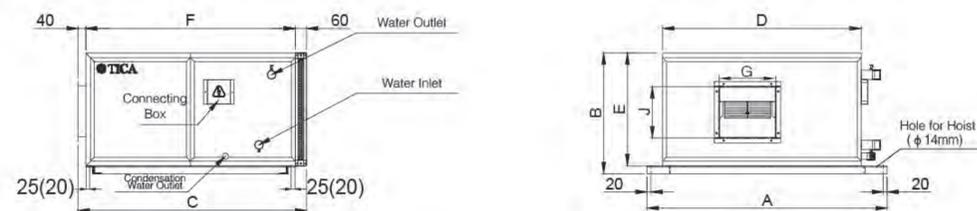
| Model TFD | A | B | C | D | E | F | G | H | J | M | Return Air Flange (Length x Width) | Supply Air Flange (Length x Width) | Unit Weight(kg) | |
|-----------|------|-----|------|------|-----|-----|-----|-----|-----|----|------------------------------------|------------------------------------|-----------------|------|
| | | | | | | | | | | | | | 4Row | 6Row |
| 010 | 787 | 545 | 950 | 623 | 505 | 850 | 300 | - | 262 | 88 | 563x 445 | 300x260 | 48 | 50 |
| 015 | 912 | 545 | 950 | 748 | 505 | 850 | 300 | - | 262 | 88 | 688 x 445 | 300x260 | 52 | 55 |
| 020 | 992 | 620 | 950 | 828 | 580 | 850 | 300 | - | 262 | 88 | 768 x 520 | 300x260 | 72 | 77 |
| 025 | 1058 | 620 | 950 | 894 | 580 | 850 | 300 | - | 262 | 88 | 834 x 520 | 300x260 | 74 | 79 |
| 030 | 1207 | 620 | 1000 | 1043 | 580 | 900 | 232 | 275 | 262 | 88 | 983x 520 | 740x262 | 85 | 90 |
| 040 | 1405 | 620 | 1000 | 1241 | 580 | 900 | 300 | 205 | 262 | 88 | 1181x 520 | 805x262 | 95 | 98 |



| Model TFD | A | B | C | D | E | F | G | H | J | M | Return Air Flange (Length x Width) | Supply Air Flange (Length x Width) | Unit Weight(kg) | |
|-----------|------|-----|------|------|-----|-----|-----|-----|-----|-----|------------------------------------|------------------------------------|-----------------|------|
| | | | | | | | | | | | | | 4Row | 6Row |
| 050 | 1657 | 630 | 1000 | 1493 | 580 | 900 | 300 | 330 | 262 | 89 | 1433x 520 | 930x262 | 124 | 128 |
| 060 | 1734 | 690 | 1000 | 1570 | 640 | 900 | 331 | 308 | 289 | 234 | 1510x 580 | 970x291 | 140 | 143 |
| 070 | 1859 | 690 | 1000 | 1695 | 640 | 900 | 331 | 308 | 289 | 234 | 1635x580 | 970x291 | 146 | 151 |

Unit Dimension

Direct Drive

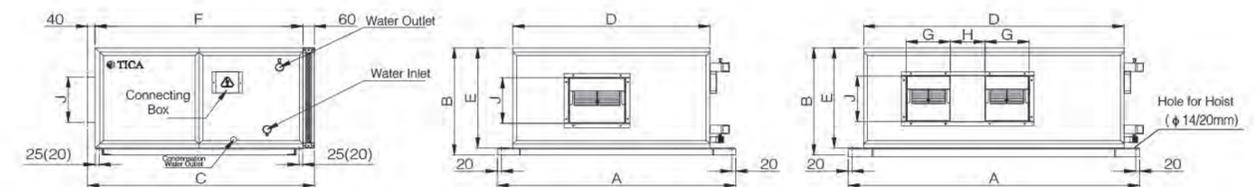


| Model TFD | A | B | C | D | E | F | G | J | Return Air Flange (Length x Width) | Supply Air Flange (Length x Width) | Unit Weight(kg) | |
|-----------|------|-----|-----|-----|-----|-----|-----|-----|------------------------------------|------------------------------------|-----------------|------|
| | | | | | | | | | | | 4Row | 6Row |
| 010 | 787 | 545 | 950 | 623 | 505 | 850 | 259 | 222 | 563x 445 | 259x222 | 50 | 57 |
| 015 | 912 | 545 | 950 | 748 | 505 | 850 | 300 | 222 | 688 x 445 | 300x222 | 57 | 63 |
| 020 | 992 | 620 | 950 | 828 | 580 | 850 | 300 | 240 | 768 x 520 | 300x240 | 71 | 81 |
| 025 | 1058 | 620 | 950 | 894 | 580 | 850 | 300 | 240 | 834 x 520 | 300x240 | 76 | 86 |

Note: The unit dimension is not include the hot water coil.

Unit Dimension

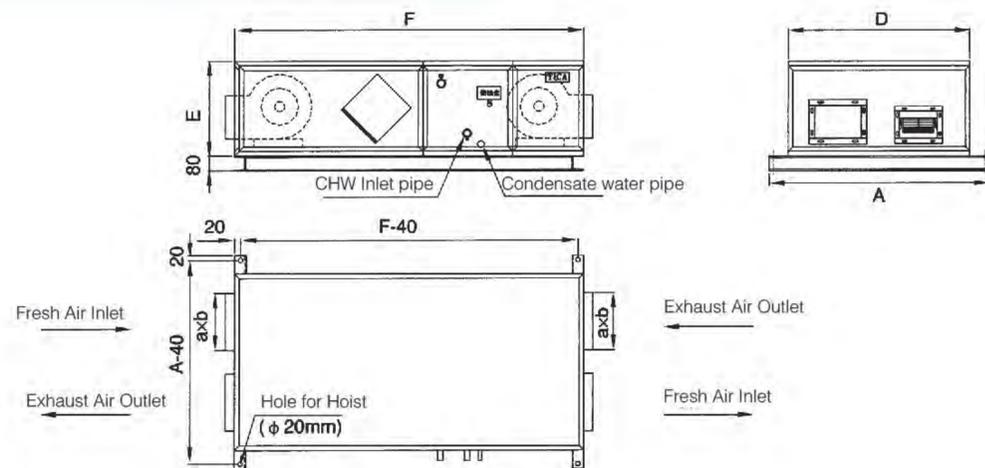
Belt Driven



| Model TFD | A | B | C | D | E | F | G | H | J | Return Air Flange (Length x Width) | Supply Air Flange (Length x Width) | Unit Weight(kg) | |
|-----------|------|------|------|------|------|------|-----|-----|-----|------------------------------------|------------------------------------|-----------------|------|
| | | | | | | | | | | | | 4Row | 6Row |
| 030 | 1207 | 620 | 1000 | 1043 | 580 | 900 | 298 | - | 262 | 983x 520 | 298 x 262 | 90 | 121 |
| 040 | 1405 | 620 | 1000 | 1241 | 580 | 900 | 331 | - | 289 | 1181x 520 | 331 x 289 | 99 | 129 |
| 050 | 1657 | 630 | 1000 | 1493 | 580 | 900 | 232 | 184 | 262 | 1433x 520 | 648 x 262 | 128 | 158 |
| 060 | 1734 | 690 | 1000 | 1570 | 640 | 900 | 265 | 214 | 289 | 1510x 580 | 744 x 289 | 139 | 180 |
| 070 | 1859 | 690 | 1000 | 1695 | 640 | 900 | 331 | 264 | 289 | 1635x580 | 926 x 289 | 192 | 222 |
| 080 | 1859 | 780 | 1000 | 1695 | 730 | 900 | 331 | 264 | 289 | 1635x 670 | 926 x 289 | 231 | 271 |
| 090 | 1988 | 780 | 1100 | 1824 | 730 | 1000 | 309 | 244 | 341 | 1764x 670 | 862 x 341 | 270 | 305 |
| 105 | 2248 | 780 | 1100 | 2084 | 730 | 1000 | 309 | 244 | 341 | 2024x 670 | 862 x 341 | 279 | 309 |
| 120 | 2298 | 820 | 1100 | 2134 | 770 | 1000 | 395 | 324 | 341 | 2074x 710 | 1114 x 341 | 287 | 311 |
| 135 | 2241 | 1027 | 1300 | 2041 | 947 | 1200 | 373 | 294 | 404 | 1981x887 | 1040x404 | 368 | 398 |
| 150 | 2241 | 1155 | 1300 | 2041 | 1075 | 1200 | 373 | 294 | 404 | 1981x1015 | 1040x404 | 372 | 414 |

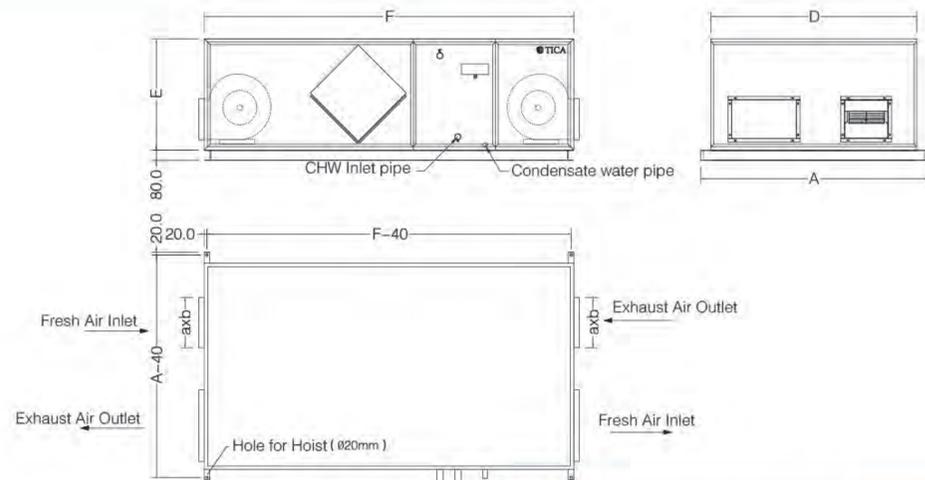
Note: 25 (20) shows that the size of the hole for hoist apart from the outside, 040 and under 040 is 20, above 040 is 25, 135/150 hole for hoist is 20. The unit dimension is not include the hot water coil.

Heat Recovery Fresh Air Handling Unit Unit Dimension----Ceiling Type



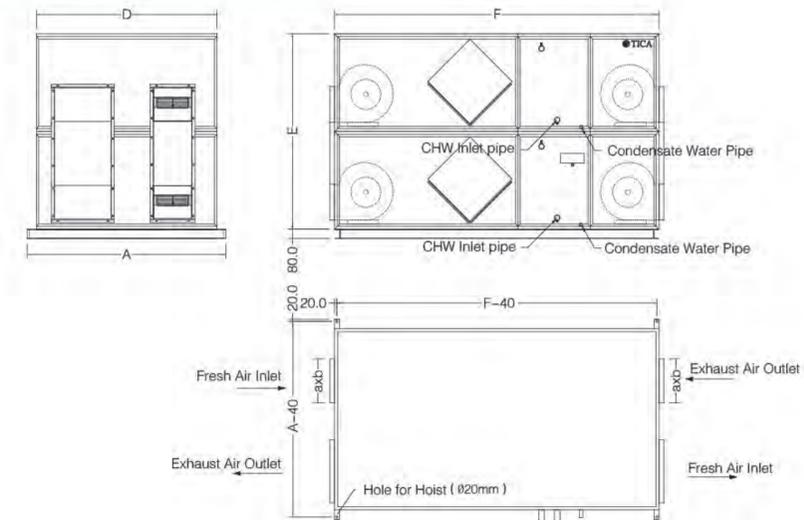
| Model | Dimension (mm) | | | | | CHW Pipe Diameter | Condensate Water Diameter | Unit Weight (2/4Row) |
|--------------|------------------|------|-----|------|---------|-------------------|---------------------------|----------------------|
| | TFD | A | D | E | F | | | |
| 010ECXXXXXXJ | 1107 | 947 | 500 | 1889 | 220x190 | 40 | 25 | 144 |
| 015ECXXXXXXJ | 1400 | 1240 | 500 | 2046 | 350x190 | 40 | 25 | 178/202 |
| 020ECXXXXXXJ | 1400 | 1240 | 580 | 2046 | 380x220 | 40 | 25 | 186/214 |
| 025ECXXXXXXJ | 1400 | 1240 | 660 | 2360 | 400x250 | 40 | 25 | 209/240 |
| 030ECXXXXXXJ | 1735 | 1575 | 660 | 2360 | 500x250 | 40 | 25 | 242/280 |
| 040ECXXXXXXJ | 2049 | 1889 | 660 | 2360 | 650x250 | 40 | 25 | 318/355 |

Heat Recovery Fresh Air Handling Unit Unit Dimension----Horizontal Type 1



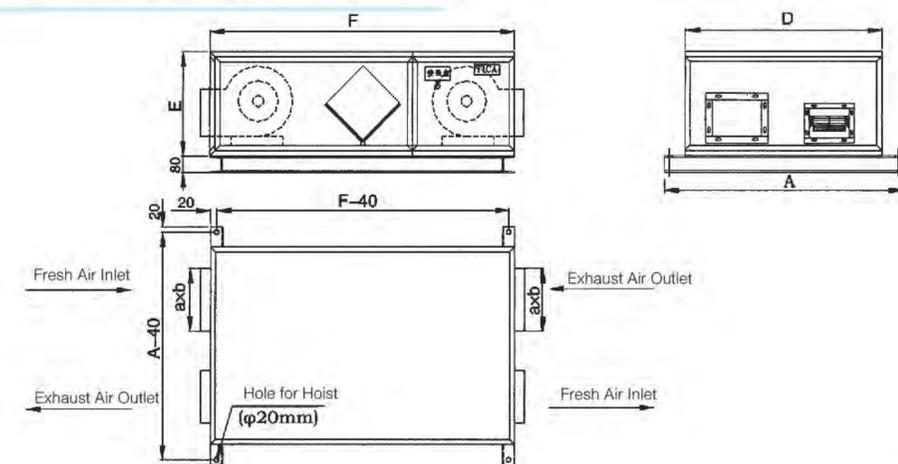
| Model | Dimension (mm) | | | | | CHW Pipe Diameter | Condensate Water Diameter | Unit Weight (2/4Row) |
|--------------|------------------|------|-----|------|---------|-------------------|---------------------------|----------------------|
| | TFD | A | D | E | F | | | |
| 050EHXXXXXXJ | 1735 | 1575 | 850 | 2831 | 550x350 | 40 | 25 | 347/376 |

Heat Recovery Fresh Air Handling Unit Unit Dimension----Horizontal Type 2



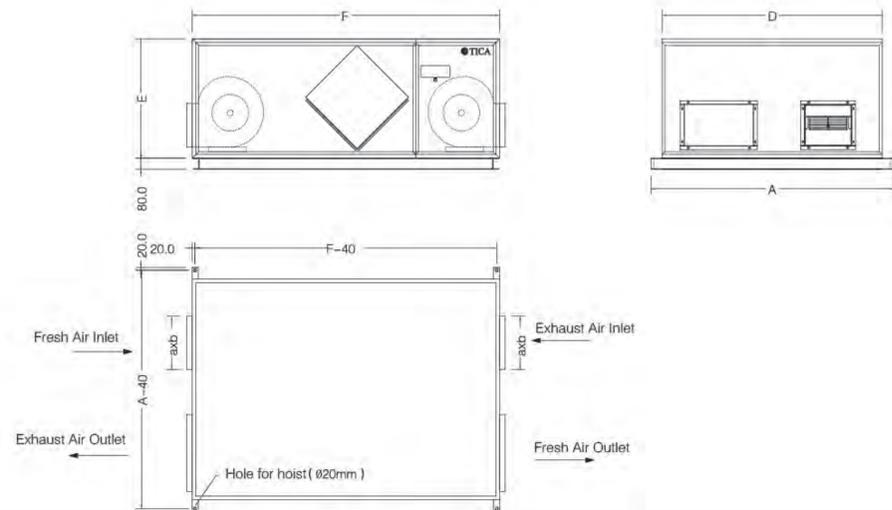
| Model | Dimension (mm) | | | | | CHW Pipe Diameter | Condensate Water Diameter | Unit Weight (2/4Row) |
|--------------|------------------|------|------|------|-----------|-------------------|---------------------------|----------------------|
| | TFD | A | D | E | F | | | |
| 060EHXXXXXXJ | 1735 | 1575 | 1320 | 2360 | 500 x 910 | 40 | 25 | 484/560 |
| 080EHXXXXXXJ | 2049 | 1889 | 1320 | 2360 | 650 x 910 | 40 | 25 | 636/710 |
| 105EHXXXXXXJ | 1735 | 1575 | 1700 | 2831 | 550x1200 | 40 | 25 | 690/741 |

Fresh Air Handling Unit(without Coil)



| Model | Dimension (mm) | | | | | Unit Weight |
|--------------|------------------|------|-----|------|---------|-------------|
| | TFD | A | D | E | F | |
| 010ECXXXXXXJ | 1107 | 947 | 500 | 1261 | 220x190 | 122 |
| 015ECXXXXXXJ | 1400 | 1240 | 500 | 1418 | 350x190 | 151 |
| 020ECXXXXXXJ | 1400 | 1240 | 580 | 1418 | 380x220 | 166 |
| 025ECXXXXXXJ | 1400 | 1240 | 660 | 1732 | 400x250 | 193 |
| 030ECXXXXXXJ | 1735 | 1575 | 660 | 1732 | 500x250 | 222 |
| 040ECXXXXXXJ | 2049 | 1889 | 660 | 1732 | 650x250 | 252 |

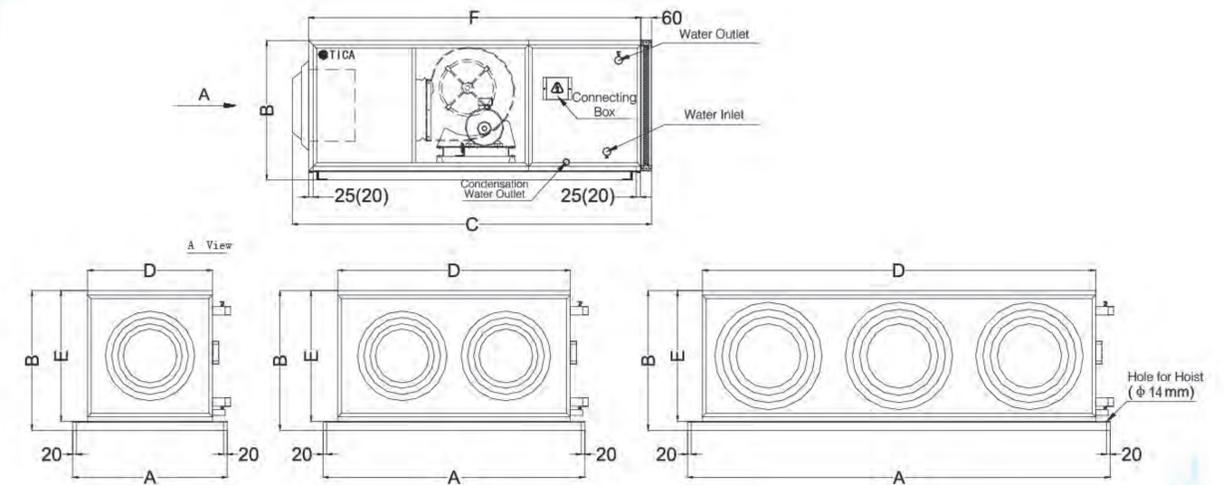
Fresh Air Handling Unit(without Coil)



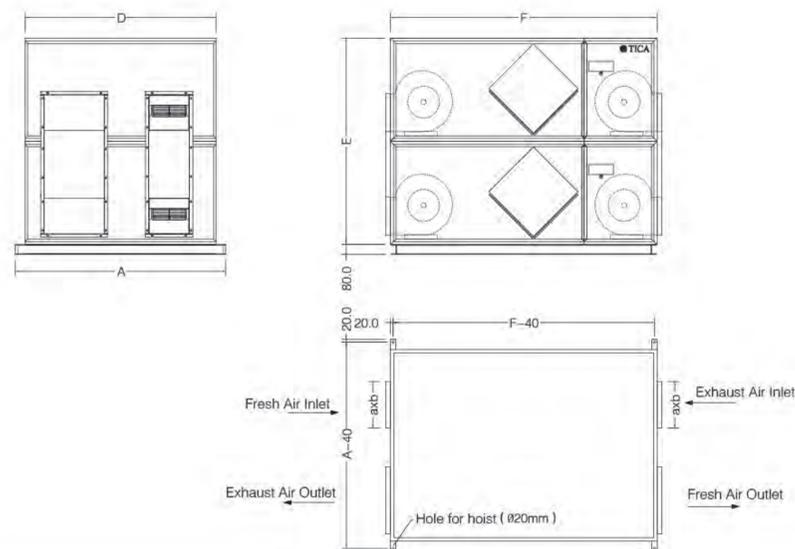
| Model | Dimension (mm) | | | | | Unit Weight (kg) |
|---------------------|------------------|------|-----|------|---------|--------------------|
| | A | D | E | F | a x b | |
| TFD 050EHXXXXXXJ | 1735 | 1575 | 850 | 2360 | 550x350 | 282 |

Unit Dimension

Jet



Fresh Air Handling Unit(without Coil)



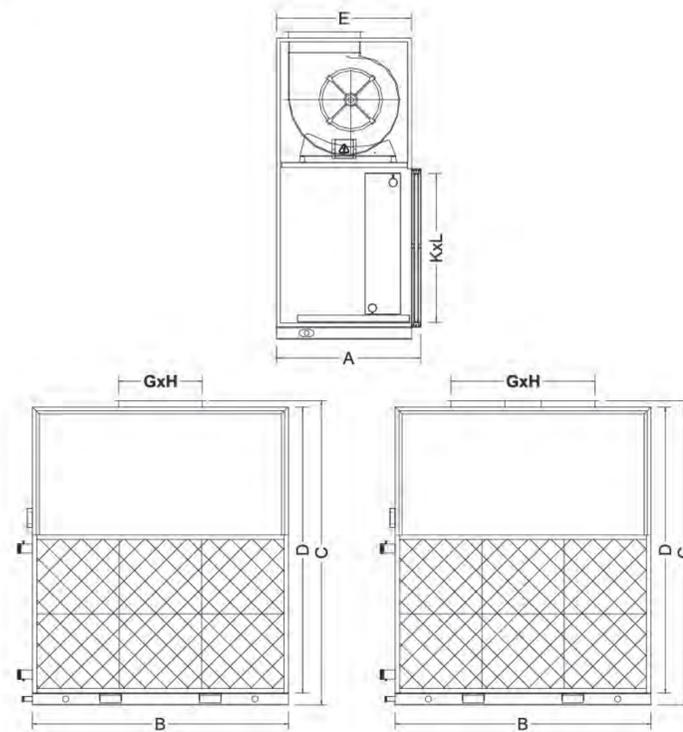
| Model | Dimension (mm) | | | | | Unit Weight (kg) |
|---------------------|------------------|------|------|------|-----------|--------------------|
| | A | D | E | F | a x b | |
| TFD 060EHXXXXXXJ | 1735 | 1575 | 1320 | 1732 | 500 x 910 | 444 |
| TFD 080EHXXXXXXJ | 2049 | 1889 | 1320 | 1732 | 650 x 910 | 504 |
| TFD 105EHXXXXXXJ | 1735 | 1575 | 1700 | 2360 | 550x1200 | 558 |

| Model TFD | A | B | C | D | E | F | Diffuser Quantity | Jet Diffuser Specification | External Diameter | Inter Diameter | Unit Weight(kg) | |
|-----------|------|-----|------|------|-----|------|-------------------|----------------------------|-------------------|----------------|-----------------|------|
| | | | | | | | | | | | 4Row | 6Row |
| 010 | 787 | 545 | 1555 | 623 | 505 | 1450 | 1 | 315 | 384 | 190 | 69 | 76 |
| 020 | 992 | 620 | 1590 | 828 | 580 | 1450 | 1 | 400 | 467 | 230 | 93 | 103 |
| 030 | 1207 | 620 | 1605 | 1043 | 580 | 1500 | 2 | 315 | 384 | 190 | 108 | 138 |
| 040 | 1405 | 620 | 1640 | 1241 | 580 | 1500 | 2 | 400 | 467 | 230 | 121 | 152 |
| 050 | 1657 | 630 | 1640 | 1493 | 580 | 1500 | 2 | 400 | 467 | 230 | 151 | 181 |
| 060 | 1734 | 690 | 1650 | 1570 | 640 | 1500 | 2 | 500 | 600 | 275 | 162 | 204 |
| 070 | 1859 | 690 | 1650 | 1695 | 640 | 1500 | 2 | 500 | 600 | 275 | 218 | 249 |
| 080 | 1859 | 780 | 1650 | 1695 | 730 | 1500 | 2 | 500 | 600 | 275 | 260 | 300 |
| 090 | 1988 | 780 | 1740 | 1824 | 730 | 1600 | 3 | 400 | 467 | 230 | 300 | 335 |
| 105 | 2248 | 780 | 1750 | 2084 | 730 | 1600 | 3 | 500 | 600 | 275 | 320 | 350 |
| 120 | 2298 | 820 | 1750 | 2134 | 770 | 1600 | 3 | 500 | 600 | 275 | 330 | 358 |

Note: 25 (20) shows that the size of the hole for hoist apart from the outside,040 and under 040 is 20,above 040 is 25.

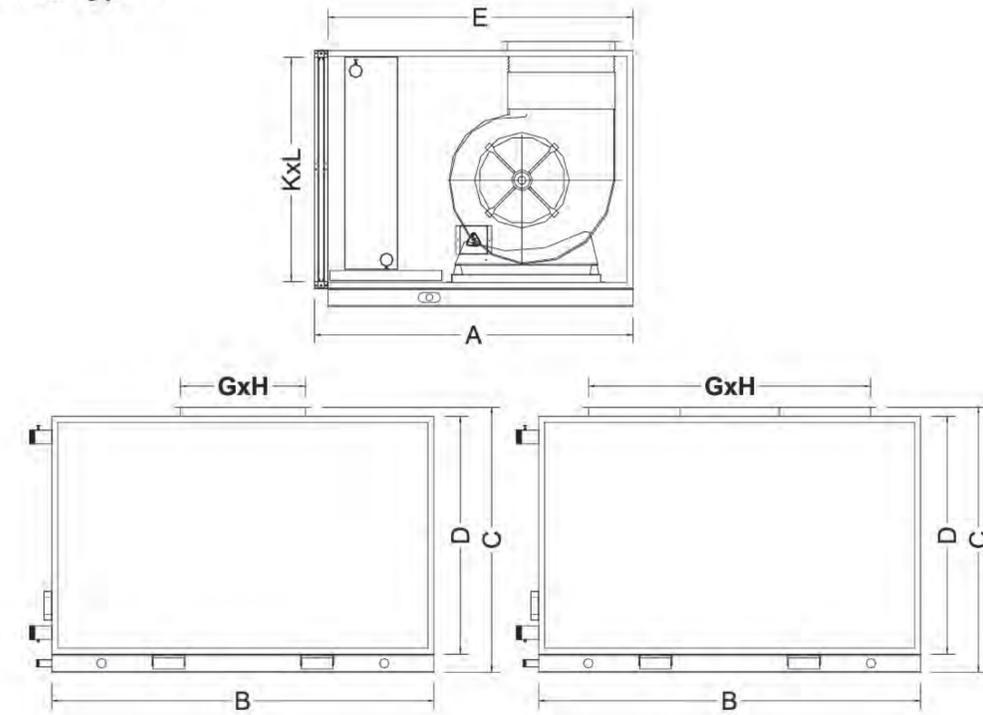
Unit Dimension

Vertical Type



Unit Dimension

Horizontal Type 1

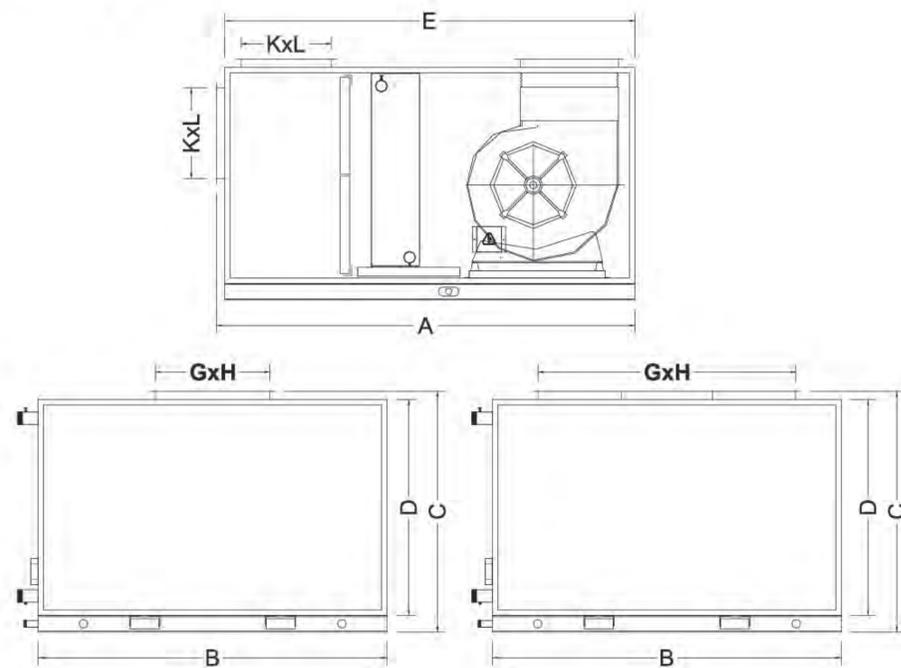


| Model TAD | A | B | C | D | E | G | H | K | L | Unit(kg) | |
|-----------|------|------|------|------|------|------|-----|------|------|----------|------|
| | | | | | | | | | | 4Row | 6Row |
| 020D | 710 | 853 | 1170 | 1050 | 650 | 232 | 262 | 793 | 440 | 137 | 143 |
| 030D | 710 | 953 | 1220 | 1100 | 650 | 298 | 262 | 893 | 490 | 153 | 160 |
| 040D | 710 | 1053 | 1420 | 1300 | 650 | 331 | 289 | 993 | 590 | 175 | 183 |
| 050D | 810 | 1053 | 1570 | 1450 | 750 | 309 | 341 | 993 | 720 | 206 | 216 |
| 060D | 810 | 1153 | 1620 | 1500 | 750 | 395 | 341 | 1093 | 790 | 231 | 244 |
| 070D | 810 | 1203 | 1770 | 1650 | 750 | 373 | 404 | 1143 | 840 | 257 | 272 |
| 080D | 810 | 1353 | 1770 | 1650 | 750 | 373 | 404 | 1293 | 840 | 272 | 289 |
| 090D | 960 | 1353 | 2020 | 1900 | 900 | 430 | 478 | 1293 | 970 | 326 | 344 |
| 105D | 960 | 1553 | 2020 | 1900 | 900 | 430 | 478 | 1493 | 970 | 360 | 376 |
| 120D | 960 | 1703 | 2020 | 1900 | 900 | 557 | 478 | 1643 | 970 | 367 | 394 |
| 135D | 960 | 1953 | 2020 | 1900 | 900 | 1040 | 404 | 1893 | 990 | 481 | 518 |
| 150D | 960 | 1953 | 2070 | 1950 | 900 | 1040 | 404 | 1893 | 1040 | 491 | 520 |
| 180D | 960 | 2153 | 2220 | 2100 | 900 | 1203 | 478 | 2093 | 1140 | 570 | 611 |
| 210D | 960 | 2353 | 2270 | 2150 | 900 | 1203 | 478 | 2293 | 1190 | 631 | 673 |
| 240D | 960 | 2653 | 2290 | 2150 | 900 | 1572 | 478 | 2593 | 1190 | 682 | 730 |
| 270D | 960 | 2653 | 2440 | 2300 | 900 | 1572 | 478 | 2593 | 1320 | 735 | 789 |
| 300D | 960 | 2653 | 2540 | 2400 | 900 | 1572 | 478 | 2593 | 1440 | 786 | 845 |
| 330D | 1160 | 2903 | 2640 | 2500 | 1100 | 1588 | 569 | 2843 | 1440 | 952 | 1018 |
| 350D | 1160 | 3053 | 2690 | 2550 | 1100 | 1776 | 638 | 2993 | 1440 | 1020 | 1089 |
| 400D | 1160 | 3053 | 2940 | 2800 | 1100 | 1776 | 638 | 2993 | 1690 | 1067 | 1181 |
| 450D | 1160 | 3053 | 3090 | 2950 | 1100 | 1776 | 638 | 2993 | 1840 | 1112 | 1129 |
| 500D | 1160 | 3153 | 3240 | 3100 | 1100 | 1776 | 638 | 3093 | 1940 | 1194 | 1330 |

Note: The type of shipping about 400 and above 400 is CKD.

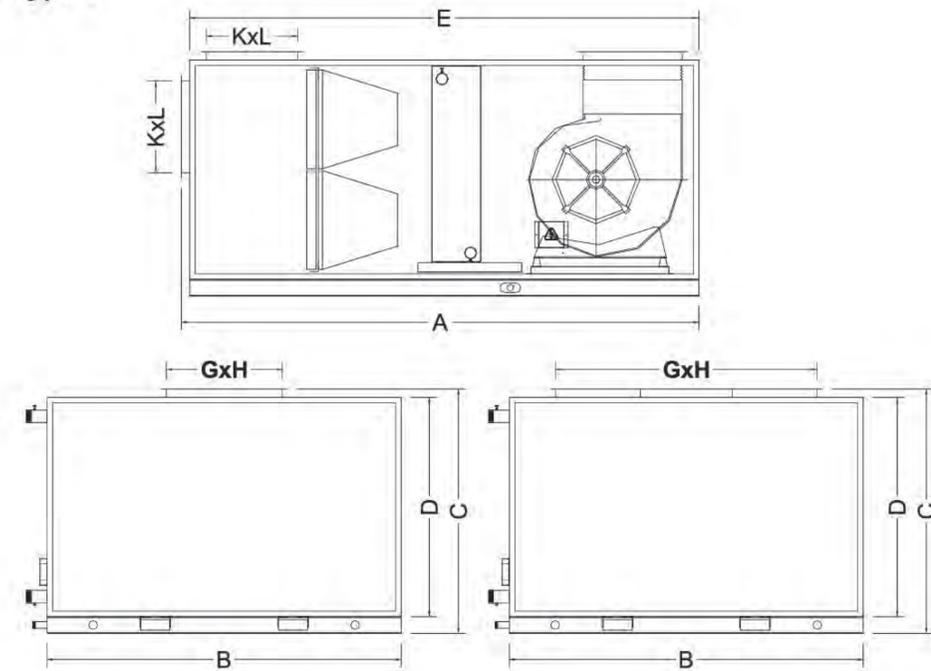
| Model TAD | A | B | C | D | E | G | H | K | L | Weight(kg) | |
|-----------|------|------|------|------|------|------|-----|------|------|------------|------|
| | | | | | | | | | | 4Row | 6Row |
| 020D | 1060 | 853 | 720 | 600 | 1000 | 232 | 262 | 793 | 540 | 129 | 138 |
| 030D | 1160 | 953 | 720 | 600 | 1100 | 298 | 262 | 893 | 540 | 148 | 155 |
| 040D | 1160 | 1053 | 790 | 670 | 1100 | 331 | 289 | 993 | 610 | 167 | 175 |
| 050D | 1160 | 1053 | 920 | 800 | 1100 | 309 | 341 | 993 | 740 | 186 | 197 |
| 060D | 1160 | 1153 | 990 | 870 | 1100 | 395 | 341 | 1093 | 810 | 211 | 223 |
| 070D | 1260 | 1203 | 1070 | 950 | 1200 | 373 | 404 | 1143 | 890 | 242 | 257 |
| 080D | 1260 | 1353 | 1070 | 950 | 1200 | 373 | 404 | 1293 | 890 | 256 | 272 |
| 090D | 1410 | 1353 | 1170 | 1050 | 1350 | 430 | 478 | 1293 | 990 | 299 | 318 |
| 105D | 1410 | 1553 | 1170 | 1050 | 1350 | 430 | 478 | 1493 | 990 | 325 | 342 |
| 120D | 1460 | 1703 | 1170 | 1050 | 1400 | 557 | 478 | 1643 | 990 | 350 | 376 |
| 135D | 1360 | 1953 | 1170 | 1050 | 1300 | 1040 | 404 | 1893 | 990 | 442 | 459 |
| 150D | 1360 | 1953 | 1270 | 1150 | 1300 | 1040 | 404 | 1893 | 1090 | 447 | 470 |
| 180D | 1510 | 2153 | 1320 | 1200 | 1450 | 1203 | 478 | 2093 | 1140 | 539 | 580 |
| 210D | 1510 | 2353 | 1370 | 1250 | 1450 | 1203 | 478 | 2293 | 1190 | 584 | 626 |
| 240D | 1510 | 2653 | 1390 | 1250 | 1450 | 1572 | 478 | 2593 | 1190 | 644 | 692 |
| 270D | 1510 | 2653 | 1520 | 1380 | 1450 | 1572 | 478 | 2593 | 1320 | 728 | 781 |
| 300D | 1560 | 2653 | 1640 | 1500 | 1500 | 1572 | 478 | 2593 | 1440 | 761 | 813 |
| 330D | 1610 | 2903 | 1640 | 1500 | 1550 | 1588 | 569 | 2843 | 1440 | 882 | 947 |
| 350D | 1710 | 3053 | 1640 | 1500 | 1650 | 1776 | 638 | 2993 | 1440 | 953 | 1022 |
| 400D | 1760 | 3053 | 1893 | 1753 | 1700 | 1776 | 638 | 2993 | 1693 | 986 | 1099 |
| 450D | 1760 | 3053 | 2020 | 1880 | 1700 | 1776 | 638 | 2993 | 1820 | 1070 | 1187 |
| 500D | 1760 | 3153 | 2150 | 2010 | 1700 | 1776 | 638 | 3093 | 1950 | 1097 | 1231 |

Unit Dimension Horizontal Type 2



| Model TAD | A | B | C | D | E | G | H | K | L | Weight(kg) | |
|-----------|------|------|------|------|------|------|-----|------|-----|------------|------|
| | | | | | | | | | | 4Row | 6Row |
| | | | | | | | | | | 020D | 1540 |
| 030D | 1640 | 953 | 720 | 600 | 1600 | 298 | 262 | 600 | 300 | 177 | 184 |
| 040D | 1640 | 1053 | 790 | 670 | 1600 | 331 | 289 | 700 | 300 | 201 | 208 |
| 050D | 1640 | 1053 | 920 | 800 | 1600 | 309 | 341 | 800 | 300 | 230 | 240 |
| 060D | 1640 | 1153 | 990 | 870 | 1600 | 395 | 341 | 900 | 300 | 261 | 274 |
| 070D | 1740 | 1203 | 1070 | 950 | 1700 | 373 | 404 | 1000 | 300 | 288 | 303 |
| 080D | 1740 | 1353 | 1070 | 950 | 1700 | 373 | 404 | 1100 | 300 | 319 | 335 |
| 090D | 1990 | 1353 | 1170 | 1050 | 1950 | 430 | 478 | 1000 | 440 | 343 | 362 |
| 105D | 1990 | 1553 | 1170 | 1050 | 1950 | 430 | 478 | 1100 | 440 | 392 | 408 |
| 120D | 2040 | 1703 | 1170 | 1050 | 2000 | 557 | 478 | 1200 | 440 | 426 | 452 |
| 135D | 1940 | 1953 | 1170 | 1050 | 1900 | 1040 | 404 | 1300 | 440 | 525 | 554 |
| 150D | 1940 | 1953 | 1270 | 1150 | 1900 | 1040 | 404 | 1500 | 440 | 569 | 597 |
| 180D | 2090 | 2153 | 1320 | 1200 | 2050 | 1203 | 478 | 1700 | 440 | 652 | 693 |
| 210D | 2090 | 2353 | 1370 | 1250 | 2050 | 1203 | 478 | 1900 | 440 | 707 | 750 |
| 240D | 2090 | 2653 | 1390 | 1250 | 2050 | 1572 | 478 | 2200 | 440 | 780 | 829 |
| 270D | 2290 | 2653 | 1520 | 1380 | 2250 | 1572 | 478 | 2200 | 580 | 912 | 965 |
| 300D | 2340 | 2653 | 1640 | 1500 | 2300 | 1572 | 478 | 2300 | 580 | 958 | 1017 |
| 330D | 2390 | 2903 | 1640 | 1500 | 2350 | 1588 | 569 | 2400 | 580 | 1084 | 1149 |
| 350D | 2490 | 3053 | 1640 | 1500 | 2450 | 1776 | 638 | 2400 | 580 | 1170 | 1239 |
| 400D | 2540 | 3053 | 1893 | 1753 | 2500 | 1776 | 638 | 2600 | 580 | 1202 | 1315 |
| 450D | 2540 | 3053 | 2020 | 1880 | 2500 | 1776 | 638 | 2800 | 580 | 1285 | 1403 |
| 500D | 2640 | 3153 | 2150 | 2010 | 2600 | 1776 | 638 | 2800 | 630 | 1324 | 1459 |

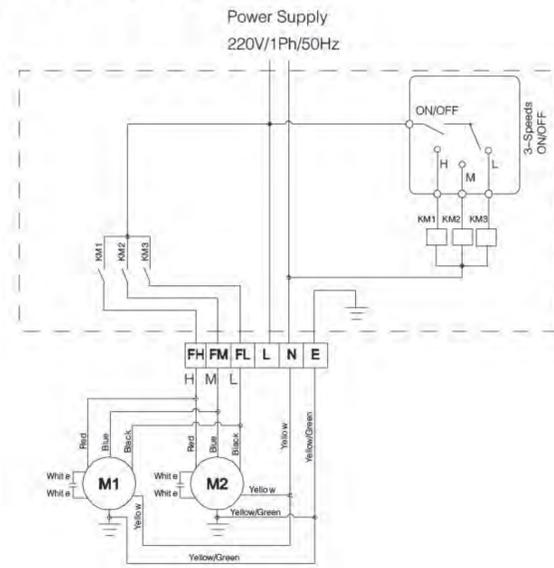
Unit Dimension Horizontal Type 3



| Model TAD | A | B | C | D | E | G | H | K | L | Weight(kg) | |
|-----------|------|------|------|------|------|------|-----|------|-----|------------|------|
| | | | | | | | | | | 4Row | 6Row |
| | | | | | | | | | | 020D | 1990 |
| 030D | 2040 | 953 | 720 | 600 | 2000 | 298 | 262 | 600 | 300 | 197 | 201 |
| 040D | 2090 | 1053 | 790 | 670 | 2050 | 331 | 289 | 700 | 300 | 224 | 232 |
| 050D | 2090 | 1053 | 920 | 800 | 2050 | 309 | 341 | 800 | 300 | 249 | 259 |
| 060D | 2090 | 1153 | 990 | 870 | 2050 | 395 | 341 | 900 | 300 | 282 | 295 |
| 070D | 2190 | 1203 | 1070 | 950 | 2150 | 373 | 404 | 1000 | 300 | 310 | 324 |
| 080D | 2190 | 1353 | 1070 | 950 | 2150 | 373 | 404 | 1100 | 300 | 345 | 362 |
| 090D | 2440 | 1353 | 1170 | 1050 | 2400 | 430 | 478 | 1000 | 440 | 394 | 412 |
| 105D | 2440 | 1553 | 1170 | 1050 | 2400 | 430 | 478 | 1100 | 440 | 433 | 450 |
| 120D | 2490 | 1703 | 1170 | 1050 | 2450 | 557 | 478 | 1200 | 440 | 471 | 494 |
| 135D | 2390 | 1953 | 1170 | 1050 | 2350 | 1040 | 404 | 1300 | 440 | 574 | 598 |
| 150D | 2390 | 1953 | 1270 | 1150 | 2350 | 1040 | 404 | 1500 | 440 | 622 | 645 |
| 180D | 2540 | 2153 | 1320 | 1200 | 2500 | 1203 | 478 | 1700 | 440 | 727 | 759 |
| 210D | 2540 | 2353 | 1370 | 1250 | 2500 | 1203 | 478 | 1900 | 440 | 809 | 842 |
| 240D | 2540 | 2653 | 1390 | 1250 | 2500 | 1572 | 478 | 2200 | 440 | 885 | 922 |
| 270D | 2740 | 2653 | 1520 | 1380 | 2700 | 1572 | 478 | 2200 | 580 | 978 | 1022 |
| 300D | 2790 | 2653 | 1640 | 1500 | 2750 | 1572 | 478 | 2300 | 580 | 1033 | 1092 |
| 330D | 2840 | 2903 | 1640 | 1500 | 2800 | 1588 | 569 | 2400 | 580 | 1185 | 1250 |
| 350D | 2940 | 3053 | 1640 | 1500 | 2900 | 1776 | 638 | 2400 | 580 | 1246 | 1316 |
| 400D | 2940 | 3053 | 1893 | 1753 | 2900 | 1776 | 638 | 2600 | 580 | 1306 | 1400 |
| 450D | 2940 | 3053 | 2020 | 1880 | 2900 | 1776 | 638 | 2800 | 580 | 1421 | 1539 |
| 500D | 3040 | 3153 | 2150 | 2010 | 3000 | 1776 | 638 | 2800 | 630 | 1462 | 1597 |

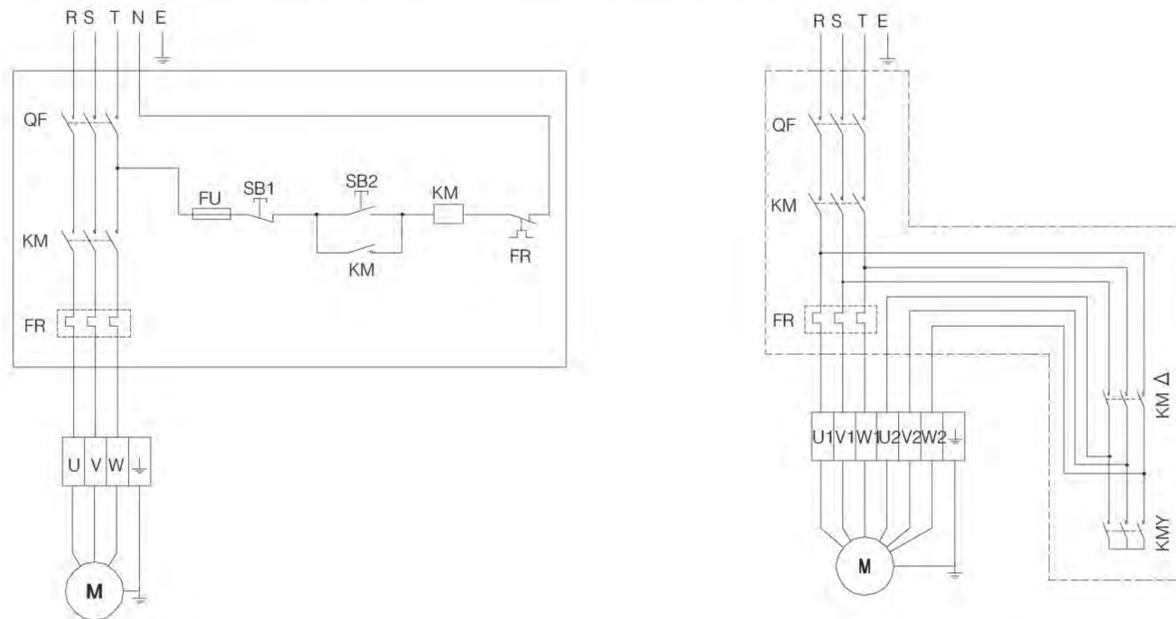
Wiring Diagrams

Model : TFD 010C - 070C (3 Speeds)



Note : The components enclosed in dotted line is optional.

Model : TFD 010 - 150 (Belt Driven/Direct Driven/Jet)



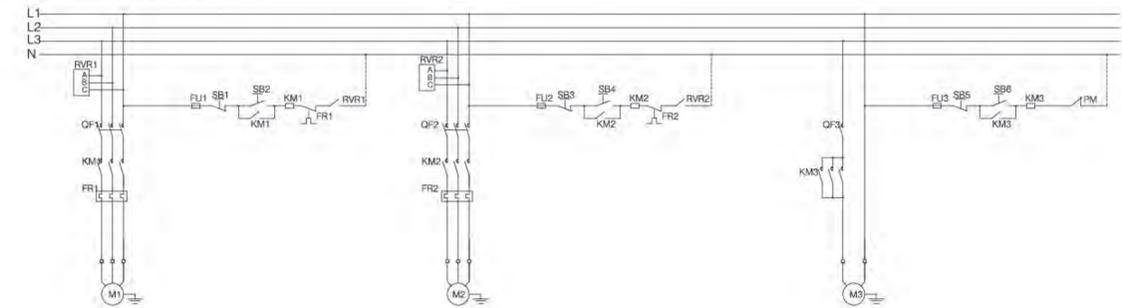
DOL Starter

Y - Δ Starter

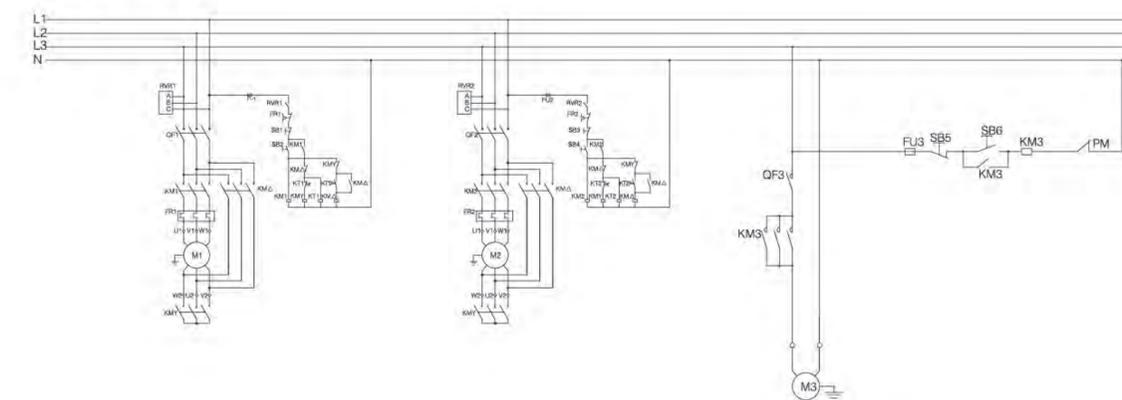
Note :
 For unit < 11kW - DOL Starter.
 For unit ≥ 11kW - Star-Delta Starter.
 Overload, fuse and thermal protection is to be installed at field.

Model:TFD-J(Heat Recovery)

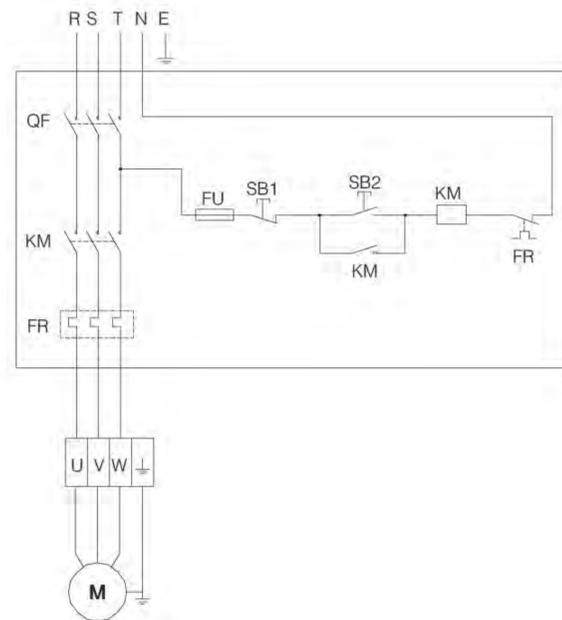
DOL Starter



Y- Δ Starter

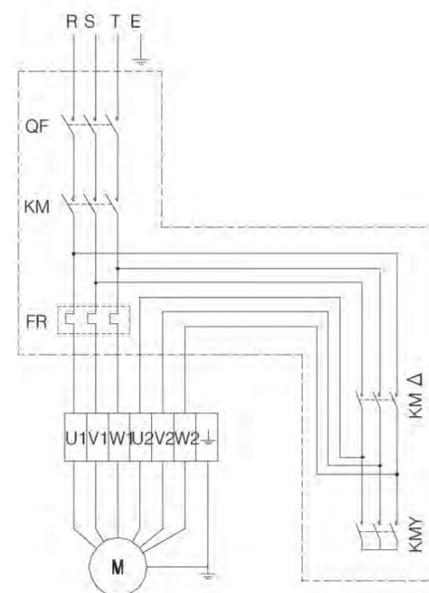


Model : TAD 020 - 500



DOL Starter

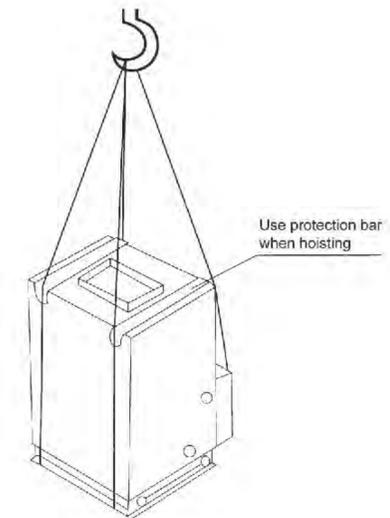
Note :
 For unit < 11kW – DOL Starter.
 For unit ≥ 11kW – Star-Delta Starter.
 Overload, fuse and thermal protection is to be installed at field.



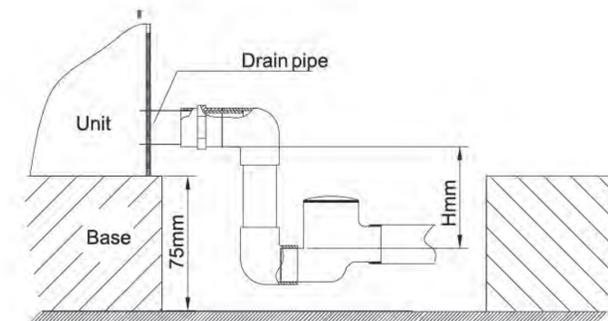
Y – Δ Starter

Installation

● For safety consideration, the hanging rod for ceiling hung type must be firmly fitted and the unit must be hoisted according to the diagram as shown as following. The hoist must be strong enough to withstand the weight of the unit and maintain level while hoisting.



- Before connecting the wiring, make sure the electrical rating is correct and the fluctuation in voltage should not exceed 10% of the rated voltage.
- Before startup, the fan blower should be physically checked by rotating the blade manually to make sure there is no excessive friction and no abnormal sound. During commissioning, make sure the direction of rotation of fan blower is correct.



$$H = \text{Unit inside static pressure (mmH}_2\text{O)} + 20$$

- Ensure water pipes are cleaned before connection. Chilled/hot water connection must be connected according to the name plate on the unit and must install valve and filter on the water entering direction of pipes.
- All pipes must be insulated to prevent heat loss/gain and condensation of water.
- When connecting inlet/outlet water pipe, make sure they are free of torsional force during operation (under 250 Nm). The condensate water must be discharged through the U-trap as above.
- Ensure there is no leaking after installation.
- Ensure that the unit do not support the weight of the duct and the water pipes.
- All the electrical connections must adhere to the LOCAL CODES AND REGULATION.
- For unit with fresh air, it is recommended to install air vent at fresh air section to control the amount of fresh air entering the unit.

Servicing and Maintenance

Caution : Make sure the unit is OFF before any service and maintenance work being carried out!

Check unit operation regularly. Scheduled and efficient maintenance will greatly improve the unit reliability and increase its lifespan.

1. When the unit is not in operation, make sure the heat exchanger is filled with water to avoid rust. During winter, when the ambient temperature is under 0°C, the water inside the pipes need to be discharged to avoid freezing. (The water discharge valve is located at the bottom of water entering pipes.)

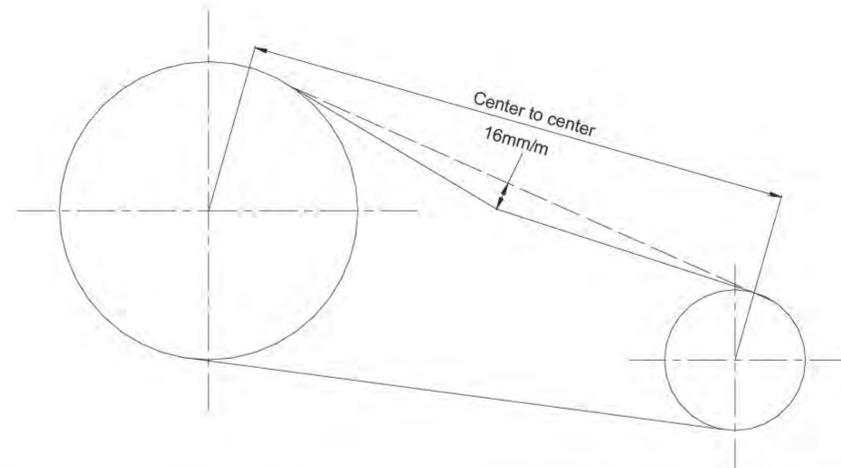
2. To ensure the high efficiency of heat exchanger, the air filter should be cleaned once a month. If the environment is dirty, the filter needs to be washed once a week.

3. The heat exchanger should be cleaned regularly. Clean the internal part of coil after 2~3 years. If it is permitted, use soft water for heat exchanger.

4. The drain pan and elbow should be cleaned once a year.

5. Check the flexible connector of air duct regularly. If found any air leakage, repair immediately.

6. Adjust the tension of belt regularly. Proper belt tension is important for proper unit operation and reduce the down time. If the belt is too tight, the belt and bearing may be overloaded, subsequently reduce the lifespan. If the belt is too loose, the belt may slip and produce unnecessary friction, which will create excessive noise and reduce belt lifespan.



| Belt Section Area | Diameter of small pulley (mm) | Force of pushing the belt down for 16mm/m | |
|-------------------|-------------------------------|---|-------------|
| | | N | kgf |
| SPZ | 56 - 95 | 13 - 20 | 1.3 - 2.0 |
| | 100 - 140 | 20 - 25 | 2.0 - 2.5 |
| SPA | 80 - 132 | 25 - 35 | 2.5 - 3.6 |
| | 140 - 200 | 35 - 45 | 3.6 - 4.6 |
| SPB | 112 - 224 | 45 - 65 | 4.6 - 6.6 |
| | 236 - 315 | 65 - 85 | 6.6 - 8.7 |
| SPC | 224 - 335 | 85 - 115 | 8.7 - 11.7 |
| | 375 - 560 | 115 - 150 | 11.7 - 15.3 |

Troubleshooting Guide

| Fault | Possible Cause | Solution |
|-----------------------------|--|--|
| Abnormal Noise | 1. Blower blade or blower shaft loose. | 1. Tighten the shaft. |
| | 2. Blower or blower housing dirty. | 2. Clean blower. |
| | 3. Duct or modulating valve loose. | 3. Repair duct and modulating valve. |
| | 4. Fan belts not align or loose. | 4. Align or tighten fan belt. |
| | 5. Flexible duct at intake/discharge too tight. | 5. Readjust the flexible duct. Change if necessary. |
| | 6. Fan operating point is not optimum. | 6. Re-select fan motor or pulleys. |
| | 7. Lubrication is bad or no lubrication. | 7. Clean the bearing and apply lubrication oil. Change to a suitable grade of oil if |
| | 8. Bolts and nuts for motor or fan loose. | 8. Tighten the bolts and nuts. |
| | 9. Fan is too small. | 9. Reselect fan. |
| Supply Air too Low | 1. Dirty filter. | 1. Clean or change filter. |
| | 2. Leakages in duct. | 2. Check and seal the leakages. |
| | 3. Air duct is blocked or air vent is not opened. | 3. Clear the air duct or open the air vent. |
| | 4. Fan rotate in wrong direction. | 4. Reverse the phase of power supply. |
| | 5. Fan or fan motor undersized. | 5. Reselect fan or fan motor. |
| | 6. RPM too low. | 6. Change fan motor or pulleys. |
| Supply Air too High | 1. Oversized fan or fan motor. | 1. Reselect fan or fan motor. |
| | 2. RPM too high. | 6. Change fan motor or pulleys. |
| Water Leaking | 1. Air velocity too high, water carry over. | 1. Reduce air velocity. |
| | 2. Condensate water not being discharged properly. | 2. Check the U-trap and clean any blockage of pipe. |
| | 3. Air leakage causing condensation. | 3. Find out the seal the air leakage spots. |
| Not Enough Cooling Capacity | 1. Chilled water temperature too high. | 1. Adjust the temperature of incoming chilled water. |
| | 2. Heat exchanger dirty. | 2. Clean heat exchanger. |
| | 3. Unit undersized. | 3. Reselect unit. |
| Air Speed too High | 1. Air velocity too high at discharge. | 1. Increase the air outlet area. |

