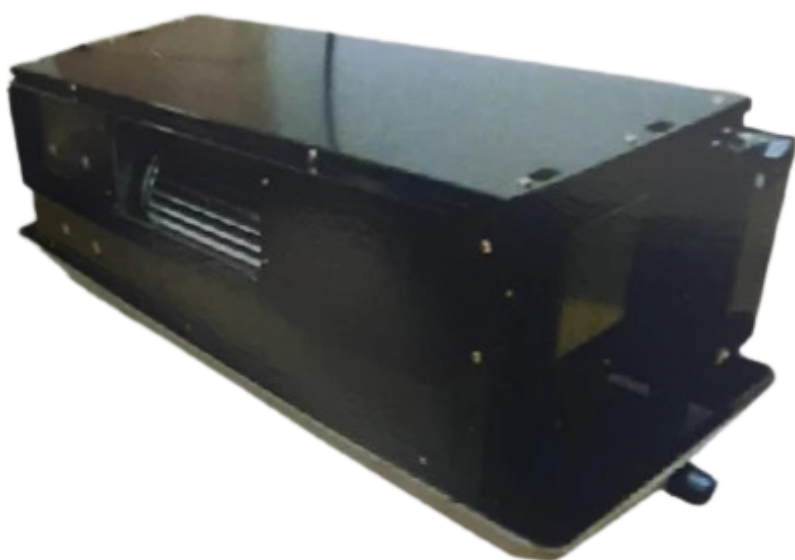


# BROCHURE

## Fan Coil Unit

**ThermalTrue®**  
HVAC & R

**Direct Expansion Series FCU07\_45 DX407**



## NOMENCLATURE

| Series | Qc  | Air Flow |      | System | Ambient | Casing | Motor | Model Nomenclature   |
|--------|-----|----------|------|--------|---------|--------|-------|----------------------|
| FCU    | MBH | CFM      | CMH  | X407   | CR      | SS     | HMF   |                      |
| FCU    | 07  | 200      | 340  | X407   | CR      | SS     | HMF   | FCU07-X407 CR-SS-HMF |
| FCU    | 10  | 300      | 510  | X407   | CR      | SS     | HMF   | FCU10-X407 CR-SS-HMF |
| FCU    | 15  | 400      | 680  | X407   | CR      | SS     | HMF   | FCU15-X407 CR-SS-HMF |
| FCU    | 18  | 500      | 850  | X407   | CR      | SS     | HMF   | FCU18-X407 CR-SS-HMF |
| FCU    | 20  | 600      | 1020 | X407   | CR      | SS     | HMF   | FCU20-X407 CR-SS-HMF |
| FCU    | 25  | 800      | 1360 | X407   | CR      | SS     | HMF   | FCU25-X407 CR-SS-HMF |
| FCU    | 30  | 1000     | 1700 | X407   | CR      | SS     | HMF   | FCU30-X407 CR-SS-HMF |
| FCU    | 40  | 1200     | 2040 | X407   | CR      | SS     | HMF   | FCU40-X407 CR-SS-HMF |
| FCU    | 45  | 1400     | 2380 | X407   | CR      | SS     | HMF   | FCU45-X407 CR-SS-HMF |

| FCU |    |    |      |    |             |     | ThermalTrue Low Static Blower                                  |
|-----|----|----|------|----|-------------|-----|----------------------------------------------------------------|
|     | 07 | 45 |      |    |             |     | Nominal Cooling Capacity, MBH                                  |
|     |    |    | X134 |    |             |     | HFC: R134a (GWP 1300)                                          |
|     |    |    | X32  |    |             |     | HFC: R32 (GWP 677)                                             |
|     |    |    | X407 |    |             |     | HFC: R407c (GWP 1774), R32(23%)/R125(25%)/R134a(52%)           |
|     |    |    | X410 |    |             |     | HFC: R410a (GWP 2088), R32(50%)/R125(50%)                      |
|     |    |    |      | SA |             |     | Standard Ambient 35°C                                          |
|     |    |    |      | HA |             |     | High Ambient 45°C                                              |
|     |    |    |      | CR |             |     | Corrosive Ambient                                              |
|     |    |    |      | Ex |             |     | Explosive Ambient                                              |
|     |    |    |      |    | SS          |     | Single Skin PE Insulated Casing                                |
|     |    |    |      |    | 1520T(NA06) |     | ThermalTrue Non-Thermalbreak 15mm Panel type, 20mm width, NA6  |
|     |    |    |      |    | 1520T(NA20) |     | ThermalTrue Non-Thermalbreak 15mm Panel type, 20mm width, NA20 |
|     |    |    |      |    | 1540T(NA06) |     | ThermalTrue Non-Thermalbreak 15mm Panel type, 40mm width, NA6  |
|     |    |    |      |    | 1540T(NA20) |     | ThermalTrue Non-Thermalbreak 15mm Panel type, 40mm width, NA20 |
|     |    |    |      |    | 2540Y(NA06) |     | ThermalTrue Thermalbreak 25mm Panel type, 40mm width, NA6      |
|     |    |    |      |    | 2540Y(NA20) |     | ThermalTrue Thermalbreak 25mm Panel type, 40mm width, NA20     |
|     |    |    |      |    | 5060Y(NA06) |     | ThermalTrue Thermalbreak 50mm Panel type, 60mm width, NA6      |
|     |    |    |      |    | 5060Y(NA20) |     | ThermalTrue Thermalbreak 50mm Panel type, 60mm width, NA20     |
|     |    |    |      |    | 5060N(NA06) |     | Arosio Non-Thermalbreak 50mm Panel type, 60mm width, NA6       |
|     |    |    |      |    | 5060A(NA20) |     | Arosio Thermalbreak 50mm Panel type, 60mm width, NA20          |
|     |    |    |      |    | 2550T(304)  |     | ThermalTrue Non-Thermalbreak 25mm Panel type, 50mm width, 304  |
|     |    |    |      |    | 2550T(316)  |     | ThermalTrue Non-Thermalbreak 25mm Panel type, 50mm width, 316  |
|     |    |    |      |    | 5070T(304)  |     | ThermalTrue Non-Thermalbreak 50mm Panel type, 70mm width, 304  |
|     |    |    |      |    | 5070T(316)  |     | ThermalTrue Non-Thermalbreak 50mm Panel type, 70mm width, 316  |
|     |    |    |      |    | 2540A(304)  |     | Arosio Non-Thermalbreak 25mm Panel type, 40mm width, 304       |
|     |    |    |      |    | 2540A(316)  |     | Arosio Non-Thermalbreak 25mm Panel type, 40mm width, 316       |
|     |    |    |      |    | 4550A(304)  |     | Arosio Non-Thermalbreak 45mm Panel type, 50mm width, 304       |
|     |    |    |      |    | 4550A(316)  |     | Arosio Non-Thermalbreak 45mm Panel type, 50mm width, 316       |
|     |    |    |      |    |             | PSC | Permanent Squirrel Cage Motor                                  |
|     |    |    |      |    |             | HMF | BLDC Motor                                                     |
|     |    |    |      |    |             | ECF | EC Fan                                                         |

# SPECIFICATION

| FAN COIL UNIT: DX407 SERIES |                         |           | Indoor                                                    | FCU07DX   | FCU10DX   | FCU15DX   | FCU18DX   | FCU20DX |
|-----------------------------|-------------------------|-----------|-----------------------------------------------------------|-----------|-----------|-----------|-----------|---------|
|                             |                         |           | Outdoor                                                   | CU07      | CU10      | CU15      | CU18      | CU20    |
| GENERAL DATA                |                         |           |                                                           |           |           |           |           |         |
| CAPACITY                    | Total Capacity          | kW        | 2,1                                                       | 2,9       | 3,8       | 4,7       | 5,5       |         |
|                             |                         | Btu/h     | 7.162                                                     | 9.950     | 13.017    | 16.082    | 18.843    |         |
|                             | Sensible Capacity       | W         | 1,5                                                       | 2,1       | 2,7       | 3,4       | 4,0       |         |
|                             |                         | Btu/h     | 5.086                                                     | 7.119     | 9.339     | 11.553    | 13.642    |         |
|                             | SHR                     |           | 0,71                                                      | 0,72      | 0,72      | 0,72      | 0,72      |         |
| AIR FLOW                    | High                    | CMH       | 389                                                       | 530       | 759       | 900       | 1.040     |         |
|                             |                         | CFM       | 229                                                       | 312       | 447       | 530       | 612       |         |
|                             | Medium                  | CMH       | 260                                                       | 370       | 489       | 635       | 780       |         |
|                             |                         | CFM       | 153                                                       | 218       | 288       | 374       | 459       |         |
|                             | Low                     | CMH       | 190                                                       | 240       | 340       | 420       | 499       |         |
|                             |                         | CFM       | 112                                                       | 141       | 200       | 247       | 294       |         |
| EXTERNAL STATIC PRESSURE    |                         | High      | 60 Pa (0.25inWG)                                          |           |           |           |           |         |
|                             |                         | Medium    | 30 Pa (0.12inWG)                                          |           |           |           |           |         |
|                             |                         | Low       | 0 Pa (0.00 inWG)                                          |           |           |           |           |         |
| CASING                      | Panel                   | GI finish |                                                           |           |           |           |           |         |
|                             | Insulation              | 10mm PE   |                                                           |           |           |           |           |         |
| DIMENSION                   | Height                  | mm        | 255                                                       | 255       | 255       | 255       | 255       |         |
|                             | Width                   | mm        | 507                                                       | 677       | 807       | 907       | 1007      |         |
|                             | Depth                   | mm        | 370                                                       | 370       | 370       | 370       | 370       |         |
| UNIT WEIGHT                 |                         | kG        | 101                                                       | 104       | 107       | 110       | 112       |         |
|                             |                         | lb        | 223                                                       | 229       | 236       | 243       | 247       |         |
| CONNECTION                  | Liquid                  | in        | 1/4                                                       | 1/4       | 1/4       | 3/8       | 3/8       |         |
|                             | Gas                     | in        | 3/8                                                       | 1/2       | 5/8       | 5/8       | 5/8       |         |
|                             | Drain Pipe Size         | in        | 3/4                                                       |           |           |           |           |         |
| COIL SPECIFICATION          |                         |           |                                                           |           |           |           |           |         |
| COIL                        | Type                    |           | Aluminium fin mechanically bonded to seamless copper tube |           |           |           |           |         |
|                             | Face Area               | m2        | 0,08                                                      | 0,11      | 0,13      | 0,15      | 0,17      |         |
|                             | Entering (DB/WB)        | °C/°C     | 26.7 / 19.0                                               |           |           |           |           |         |
|                             | Leaving (DB/WB)         | °C/°C     | 12.9/12.0                                                 | 13.6/12.4 | 15.3/13.6 | 13.6/12.5 | 13.4/12.3 |         |
|                             | Face Velocity           | m/s       | 1,23                                                      | 1,68      | 1,88      | 1,70      | 1,55      |         |
|                             | ΔP                      | Pa        | 33                                                        | 56        | 51        | 57        | 49        |         |
|                             | Condensate Rate         | g/s       | 0,40                                                      | 0,60      | 0,60      | 0,80      | 1,00      |         |
| FAN & MOTOR SPECIFICATION   |                         |           |                                                           |           |           |           |           |         |
| BLOWER                      | Type                    |           | Forward Curve Centrifugal Direct Drive                    |           |           |           |           |         |
|                             | Size                    |           | 160mm OD x 200mmL (6 x 8)                                 |           |           |           |           |         |
|                             | Quantity                | set       | 1                                                         | 1         | 2         | 2         | 2         |         |
| POWER SUPPLY                |                         | V-Ø-Hz    | 220-240V/1Ø/50Hz                                          |           |           |           |           |         |
| MOTOR (0 Pa)                | 7W : YDK7-6B4           |           | 1                                                         |           |           |           |           |         |
|                             | 10W : YDK10-6B4         |           |                                                           | 1         |           |           |           |         |
|                             | 16W : YSK16-6B4         |           |                                                           |           | 1         | 1         |           |         |
|                             | 25W : YSK25-6B4         |           |                                                           |           |           |           | 1         |         |
| MOTOR (30 Pa)               | 10W : YDK10-4B4         |           | 1                                                         |           |           |           |           |         |
|                             | 16W : YDK16-4B4         |           |                                                           | 1         |           |           |           |         |
|                             | 20W : YSK20-4B4         |           |                                                           |           | 1         | 1         |           |         |
|                             | 33W : YSK33-4B4         |           |                                                           |           |           |           | 1         |         |
| MOTOR (60 Pa)               | 22W : YD22-4B4          |           | 1                                                         |           |           |           |           |         |
|                             | 32W : YDK32-4B4         |           |                                                           | 1         |           |           |           |         |
|                             | 35W : YSK35-4B4         |           |                                                           |           | 1         | 1         |           |         |
|                             | 75W : YSK75-4B4         |           |                                                           |           |           |           | 1         |         |
| AIR FILTER                  | PFS462W205H008T-W1S71.1 |           | 1                                                         |           |           |           |           |         |
|                             | PFS632W205H008T-W1S71.1 |           |                                                           | 2         |           |           |           |         |
|                             | PFS381W205H008T-W1S71.1 |           |                                                           |           | 2         |           |           |         |
|                             | PFS431W205H008T-W1S71.1 |           |                                                           |           |           | 2         |           |         |
|                             | PFS481W205H008T-W1S71.1 |           |                                                           |           |           |           | 2         |         |
|                             | PFS606W205H008T-W1S71.1 |           |                                                           |           |           |           |           |         |
|                             | PFS464W205H008T-W1S71.1 |           |                                                           |           |           |           |           |         |
|                             | PFS524W205H008T-W1S71.1 |           |                                                           |           |           |           |           |         |



## SPECIFICATION

| FAN COIL UNIT: DX407 SERIES |                         |                                                           | Indoor           | FCU25DX   | FCU30DX   | FCU40DX   | FCU45DX |
|-----------------------------|-------------------------|-----------------------------------------------------------|------------------|-----------|-----------|-----------|---------|
|                             |                         |                                                           | Outdoor          | CU25      | CU30      | CU40      | CU45    |
| GENERAL DATA                |                         |                                                           |                  |           |           |           |         |
| CAPACITY                    | Total Capacity          | kW                                                        | 7,3              | 9,2       | 11,1      | 12,8      |         |
|                             |                         | Btu/h                                                     | 24.926           | 31.325    | 37.874    | 43.749    |         |
|                             | Sensible Capacity       | W                                                         | 5,3              | 6,6       | 8,0       | 9,3       |         |
|                             |                         | Btu/h                                                     | 18.041           | 22.658    | 27.308    | 31.685    |         |
|                             | SHR                     |                                                           | 0,72             | 0,72      | 0,72      | 0,72      |         |
| AIR FLOW                    | High                    | CMH                                                       | 1.419            | 1.619     | 2.039     | 2.378     |         |
|                             |                         | CFM                                                       | 835              | 953       | 1.200     | 1.400     |         |
|                             | Medium                  | CMH                                                       | 1.089            | 1.140     | 1.498     | 1.748     |         |
|                             |                         | CFM                                                       | 641              | 671       | 882       | 1.029     |         |
|                             | Low                     | CMH                                                       | 739              | 829       | 1.019     | 1.189     |         |
|                             |                         | CFM                                                       | 435              | 488       | 600       | 700       |         |
| EXTERNAL STATIC PRESSURE    |                         | High                                                      | 60 Pa (0.25inWG) |           |           |           |         |
|                             |                         | Medium                                                    | 30 Pa (0.12inWG) |           |           |           |         |
|                             |                         | Low                                                       | 0 Pa (0.00 inWG) |           |           |           |         |
| CASING                      | Panel                   | GI finish                                                 |                  |           |           |           |         |
|                             | Insulation              | 10mm PE                                                   |                  |           |           |           |         |
| DIMENSION                   | Height                  | mm                                                        | 255              | 255       | 255       | 255       |         |
|                             | Width                   | mm                                                        | 1257             | 1357      | 1617      | 1878      |         |
|                             | Depth                   | mm                                                        | 370              | 370       | 370       | 370       |         |
| UNIT WEIGHT                 |                         | kG                                                        | 117              | 119       | 126       | 136       |         |
|                             |                         | lb                                                        | 258              | 262       | 278       | 300       |         |
| CONNECTION                  | Liquid                  | in                                                        | 3/8              | 3/8       | 1/2       | 1/2       |         |
|                             | Gas                     | in                                                        | 3/4              | 3/4       | 3/4       | 3/4       |         |
|                             | Drain Pipe Size         | in                                                        | 3/4              |           |           |           |         |
| COIL SPECIFICATION          |                         |                                                           |                  |           |           |           |         |
| COIL                        | Type                    | Aluminium fin mechanically bonded to seamless copper tube |                  |           |           |           |         |
|                             | Face Area               | m2                                                        | 0,21             | 0,27      | 0,32      | 0,37      |         |
|                             | Entering (DB/WB)        | °C/°C                                                     | 26.7 / 19.0      |           |           |           |         |
|                             | Leaving (DB/WB)         | °C/°C                                                     | 13.5/12.4        | 13.8/12.6 | 13.5/12.4 | 13.5/12.4 |         |
|                             | Face Velocity           | m/s                                                       | 1,65             | 1,86      | 1,64      | 1,64      |         |
|                             | ΔP                      | Pa                                                        | 54               | 66        | 54        | 54        |         |
|                             | Condensate Rate         | g/s                                                       | 1,30             | 1,80      | 1,90      | 1,90      |         |
| FAN & MOTOR SPECIFICATION   |                         |                                                           |                  |           |           |           |         |
| BLOWER                      | Type                    | Forward Curve Centrifugal Direct Drive                    |                  |           |           |           |         |
|                             | Size                    | 160mm OD x 200mmL (6 x 8)                                 |                  |           |           |           |         |
|                             | Quantity                | set                                                       | 3                | 3         | 4         | 5         |         |
| POWER SUPPLY                |                         | V-Ø-Hz                                                    | 220-240V/1Ø/50Hz |           |           |           |         |
| MOTOR (0 Pa)                | 7W : YDK7-6B4           |                                                           | 1                |           |           | 1         |         |
|                             | 10W : YDK10-6B4         |                                                           |                  | 1         |           |           |         |
|                             | 16W : YSK16-6B4         |                                                           |                  |           |           |           |         |
|                             | 25W : YSK25-6B4         |                                                           | 1                | 1         | 2         | 2         |         |
| MOTOR (30 Pa)               | 10W : YDK10-4B4         |                                                           | 1                |           |           | 1         |         |
|                             | 16W : YDK16-4B4         |                                                           |                  | 1         |           |           |         |
|                             | 20W : YSK20-4B4         |                                                           |                  |           |           |           |         |
|                             | 33W : YSK33-4B4         |                                                           | 1                | 1         | 2         | 2         |         |
| MOTOR (60 Pa)               | 22W : YD22-4B4          |                                                           | 1                |           |           | 1         |         |
|                             | 32W : YDK32-4B4         |                                                           |                  | 1         |           |           |         |
|                             | 35W : YSK35-4B4         |                                                           |                  |           |           |           |         |
|                             | 75W : YSK75-4B4         |                                                           | 1                | 1         | 2         | 2         |         |
| AIR FILTER                  | PFS462W205H008T-W1S71.1 |                                                           |                  |           |           |           |         |
|                             | PFS632W205H008T-W1S71.1 |                                                           |                  |           |           |           |         |
|                             | PFS381W205H008T-W1S71.1 |                                                           |                  |           |           |           |         |
|                             | PFS431W205H008T-W1S71.1 |                                                           |                  |           |           |           |         |
|                             | PFS481W205H008T-W1S71.1 |                                                           |                  |           |           |           |         |
|                             | PFS606W205H008T-W1S71.1 |                                                           | 2                |           |           |           |         |
|                             | PFS464W205H008T-W1S71.1 |                                                           |                  | 3         |           |           |         |
|                             | PFS524W205H008T-W1S71.1 |                                                           |                  |           | 3         | 3         |         |



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