

4. PRODUCT DATA

| Model | | | FP-8XD/A-E | FP-10XD/A-E | FP-12.5XD/A-E | FP-14XD/A-E |
|----------------------------|------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code | | | EM5200045010 | EM5200046010 | EM5200047010 | EM5200048010 |
| Air flow volume | High | CFM | 500 | 600 | 735 | 841 |
| | | m ³ /h | 850 | 1020 | 1250 | 1430 |
| | Medium | CFM | 375 | 464 | 606 | 802 |
| | | m ³ /h | 637 | 789 | 1030 | 1363 |
| | Low | CFM | 303 | 362 | 538 | 705 |
| | | m ³ /h | 515 | 615 | 915 | 1200 |
| Capacity | Cooling | W | 4640 | 5400 | 6700 | 7740 |
| | Heating | W | 7500 | 9100 | 10500 | 11200 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 100 | 100 | 150 | 140 |
| Exterior static pressure | | Pa | 0 | 0 | 0 | 0 |
| Water system | Water flow volume | m ³ /h | 0.829 | 0.964 | 1.196 | 1.382 |
| | Pressure drop | kPa | 15 | 25 | 25 | 30 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN35B | FN35B | FN35B | FN50T |
| | Capacitor | μF | 2.5 | 3.5 | 3.5 | 2.5 |
| | Power output | W | 35 | 35 | 35 | 50 |
| Sound pressure level | | dB(A) | 46 | 46 | 47 | 52 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" | G3/4" | G3/4" |
| | Condensing water drain | mm | 32 | 32 | 32 | 32 |
| Outline dimension | Body | mm | 840×840×240 | 840×840×240 | 840×840×240 | 840×840×320 |
| | Panel | mm | 960×960×60 | 960×960×60 | 960×960×60 | 960×960×60 |
| Package dimension | Body | mm | 960×960×310 | 960×960×310 | 960×960×310 | 960×960×394 |
| | Panel | mm | 1040×1025×115 | 1040×1025×115 | 1040×1025×115 | 1040×1025×115 |
| Net weight | Body | kg | 27 | 27 | 27 | 33 |
| | Panel | kg | 6.5 | 6.5 | 6.5 | 6.5 |
| Gross weight | Body | kg | 35 | 35 | 35 | 42 |
| | Panel | kg | 10 | 10 | 10 | 10 |
| Loading quantity | | 20'GP | 84 | 84 | 84 | 72 |
| | | 40'GP | 168 | 168 | 168 | 120 |
| | | 40'HQ | 192 | 192 | 192 | 144 |
| Wired remote controller | | | Z5K351/Z4E351B | Z5K351/Z4E351B | Z5K351/Z4E351B | Z5K351/Z4E351B |
| Wireless remote controller | | | YB1F2(X-FAN) | YB1F2(X-FAN) | YB1F2(X-FAN) | YB1F2(X-FAN) |

PRODUCT

| Model | | | FP-16XD/A-E | FP-18XD/A-E |
|----------------------------|------------------------|-------------------|--------------------------|--------------------------|
| Code | | | EM5200049010 | EM5200050010 |
| Air flow volume | High | CFM | 965 | 1060 |
| | | m ³ /h | 1640 | 1800 |
| | Medium | CFM | 853 | 1035 |
| | | m ³ /h | 1460 | 1760 |
| | Low | CFM | 781 | 932 |
| | | m ³ /h | 1327 | 1584 |
| Capacity | Cooling | W | 8700 | 9600 |
| | Heating | W | 12900 | 14600 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 150 | 155 |
| Exterior static pressure | | Pa | 0 | 0 |
| Water system | Water flow volume | m ³ /h | 1.554 | 1.714 |
| | Pressure drop | kPa | 30 | 30 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN50T | FN50T |
| | Capacitor | μF | 4.5 | 4.5 |
| | Power output | W | 50 | 50 |
| Sound pressure level | | dB(A) | 53 | 54 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" |
| | Condensing water drain | mm | 32 | 32 |
| Outline dimension | Body | mm | 840×840×320 | 840×840×320 |
| | Panel | mm | 960×960×60 | 960×960×60 |
| Package dimension | Body | mm | 960×960×394 | 960×960×394 |
| | Panel | mm | 1040×1025×115 | 1040×1025×115 |
| Net weight | Body | kg | 33 | 33 |
| | Panel | kg | 6.5 | 6.5 |
| Gross weight | Body | kg | 42 | 42 |
| | Panel | kg | 10 | 10 |
| Loading quantity | | 20'GP | 72 | 72 |
| | | 40'GP | 120 | 120 |
| | | 40'HQ | 144 | 144 |
| Wired remote controller | | | Z5K351/Z4E351B | Z5K351/Z4E351B |
| Wireless remote controller | | | YB1F2(X-FAN) | YB1F2(X-FAN) |

PRODUCT

| Model | | | FP-8XD-E | FP-10XD-E | FP-12.5XD-E | FP-14XD-E |
|-----------------------------|-------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code | | | EM52000051 | EM52000061 | EM52000031 | EM52000071 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 100 | 100 | 150 | 140 |
| Air flow volume | High | CFM | 500 | 600 | 735 | 840 |
| | | m ³ /h | 850 | 1020 | 1250 | 1430 |
| | Medium | CFM | 375 | 464 | 606 | 802 |
| | | m ³ /h | 638 | 789 | 1030 | 1363 |
| | Low | CFM | 303 | 363 | 538 | 705 |
| | | m ³ /h | 515 | 617 | 914 | 1198 |
| Capacity | Cooling | W | 4640 | 5400 | 6700 | 7740 |
| | Heating | W | 7500 | 9100 | 10500 | 11200 |
| Electric heater rated power | | W | 1400 | 1400 | 1400 | 1400 |
| Water system | Water flow volume | m ³ /h | 0.81 | 0.95 | 1.18 | 1.36 |
| | Pressure drop | kPa | 15 | 25 | 25 | 25 |
| Sound pressure level | | dB(A) | 46 | 46 | 47 | 52 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating | MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN35B | FN35B | FN35B | FN50T |
| | Capacitor | μF | 2.5 | 3.5 | 3.5 | 2.5 |
| Connection pipe size | Water inlet | inch | G3/4" | G3/4" | G3/4" | G3/4" |
| | Condensing | mm | 32 | 32 | 32 | 32 |
| Outline dimension | Body | mm | 840×840×240 | 840×840×240 | 840×840×240 | 840×840×320 |
| | Panel | mm | 960×960×60 | 960×960×60 | 960×960×60 | 960×960×60 |
| Package dimension | Body | mm | 960×960×310 | 960×960×310 | 960×960×310 | 960×960×394 |
| | Panel | mm | 1040×1025×115 | 1040×1025×115 | 1040×1025×115 | 1040×1025×115 |
| Net weight | Body | kg | 30 | 30 | 30 | 38 |
| | Panel | kg | 6.5 | 6.5 | 6.5 | 6.5 |
| Gross weight | Body | kg | 38 | 38 | 38 | 46 |
| | Panel | kg | 10 | 10 | 10 | 10 |
| Loading quantity | | 20'GP | 61 | 61 | 51 | 51 |
| | | 40'GP | 116 | 116 | 116 | 93 |
| | | 40'HQ | 133 | 133 | 133 | 112 |
| Wired remote controller | | | Z5K351/Z4E351B | Z5K351/Z4E351B | Z5K351/Z4E351B | Z5K351/Z4E351B |
| Wireless remote controller | | | YB1F2(X-FAN) | YB1F2(X-FAN) | YB1F2(X-FAN) | YB1F2(X-FAN) |

PRODUCT

| Model | | | FP-16XD-E | FP-18XD-E |
|------------------------------|------------------------|-------------------|--------------------------|--------------------------|
| Code | | | EM52000081 | EM52000041 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 49 | 56 |
| Air flow volume | High | CFM | 300 | 371 |
| | | m ³ /h | 510 | 680 |
| | Medium | CFM | 247 | 318 |
| | | m ³ /h | 420 | 540 |
| | Low | CFM | 206 | 265 |
| | | m ³ /h | 350 | 450 |
| Capacity | Cooling | W | 3000 | 3500 |
| | Heating | W | 4000 | 5000 |
| Electric heater rated power | | W | 1400 | - |
| Water system | Water flow volume | m ³ /h | 0.49 | 0.616 |
| | Pressure drop | kPa | 5 | 9 |
| Sound pressure level | | dB(A) | 53 | 43 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN11T | FN11T |
| | Capacitor | μF | 1 | 2.5 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 600×600×230 | 600×600×230 |
| | Panel | mm | 650×650×50 | 650×650×50 |
| Package dimension (W×D×H) | Body | mm | 848×678×310 | 848×678×310 |
| | Panel | mm | 730×670×102 | 730×670×102 |
| Net weight | Body | kg | 19.3 | 19.3 |
| | Panel | kg | 5 | 5 |
| Gross weight | Body | kg | 27 | 27 |
| | Panel | kg | 6 | 6 |
| Loading quantity | | 20'GP | 51 | 114 |
| | | 40'GP | 93 | 216 |
| | | 40'HQ | 112 | 256 |
| Wired remote controller | | | Z5K351/Z4E351B | Z5K351/Z4E351B |
| Wireless remote controller | | | YB1F2(X-FAN) | YB1F2(X-FAN) |

PRODUCT

| Model | | | FP-51XD-E | FP-68XD-E |
|------------------------------|------------------------|-------------------|--------------------------|--------------------------|
| Code | | | EM52000011 | EM52000021 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 49 | 56 |
| Air flow volume | High | CFM | 300 | 371 |
| | | m ³ /h | 510 | 680 |
| | Medium | CFM | 247 | 318 |
| | | m ³ /h | 420 | 540 |
| | Low | CFM | 206 | 265 |
| | | m ³ /h | 350 | 450 |
| Capacity | Cooling | W | 3000 | 3500 |
| | Heating | W | 4000 | 5000 |
| Electric heater rated power | | W | - | - |
| Water system | Water flow volume | m ³ /h | 0.49 | 0.616 |
| | Pressure drop | kPa | 5 | 9 |
| Sound pressure level | | dB(A) | 43 | 48 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN11T | FN11T |
| | Capacitor | μF | 1 | 2.5 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 600×600×230 | 600×600×230 |
| | Panel | mm | 650×650×50 | 650×650×50 |
| Package dimension (W×D×H) | Body | mm | 848×678×310 | 848×678×310 |
| | Panel | mm | 730×670×102 | 730×670×102 |
| Net weight | Body | kg | 19.3 | 19.3 |
| | Panel | kg | 5 | 5 |
| Gross weight | Body | kg | 27 | 27 |
| | Panel | kg | 6 | 6 |
| Loading quantity | | 20'GP | 114 | 114 |
| | | 40'GP | 216 | 216 |
| | | 40'HQ | 256 | 256 |
| Wired remote controller | | | Z5K351 | Z5K351 |
| Wireless remote controller | | | YB1F2(X-FAN) | YB1F2(X-FAN) |

Notes:

- (a) The water working temperature is from 7°C(44.6°F) to 60°C(140°F).
- (b) The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:
 - Cooling efficiency: air 27°C(80.6°F) DB, 19.5°C(67.1°F) WB, water temperature in 7°C(44.6°F),water out 12°C(53.6°F).
 - Heating capacity: air 21°C(69.8°F) DB, Water temperature intake 60°C(140°F), the water-flow volume is same as Cooling capacity.

| Model | | | FP-51XD/A-K | FP-68XD/A-K |
|-----------------------------|---------------------------|-------------------|--------------------------|--------------------------|
| Code | | | EM520N1170 | EM520N1160 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 73 | 73 |
| Air flow volume | High | CFM | 300 | 400 |
| | | m ³ /h | 510 | 680 |
| | Medium | CFM | 235 | 329 |
| | | m ³ /h | 400 | 560 |
| | Low | CFM | 176 | 270 |
| | | m ³ /h | 300 | 460 |
| Capacity | Cooling | W | 2750 | 3600 |
| | Heating | W | 3400 | 4200 |
| Electric heater rated power | | W | - | - |
| Water system | Cooling water flow volume | l/s | 0.13 | 0.18 |
| | Heating water flow volume | l/s | 0.16 | 0.20 |
| | Cooling pressure drop | kPa | 15 | 28 |
| | Heating pressure drop | kPa | 24 | 38 |
| Sound pressure level | | dB(A) | 46 | 46 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN30L | FN30L |
| | Capacitor | μF | 2 | 2 |
| Connection pipe size | Water inlet & outlet | inch | G3/4 | G3/4 |
| | Condensing water drain | mm | 25 | 25 |
| Outline dimension | Body | mm | 664x594x292 | 664x594x292 |

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|----------------------------|-------------------------|----|-------------|-------------|
| (W×D×H) | Panel TC06 | mm | 670x670x60 | 670x670x60 |
| Package dimension (W×D×H) | Body | mm | 775x730x285 | 775x730x285 |
| | Panel TC06 | mm | 760x760x90 | 760x760x90 |
| Net weight | Body | kg | 20 | 20 |
| | Panel TC06 | kg | 3.5 | 3.5 |
| Gross weight | Body | kg | 24 | 24 |
| | Panel TB03 | kg | 5 | 5 |
| | 20'GP (with panel TB03) | | 168 | 168 |
| | 40'GP (with panel TB03) | | 376 | 376 |
| | 40'HQ (with panel TB03) | | 423 | 423 |
| Wired remote controller | | | Z4E351B | Z4E351B |
| Wireless remote controller | | | YB1FA(MOTO) | YB1FA(MOTO) |

Notes:

Testing condition:

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 60°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

- (a) Cooling capacity: air 27°C DB , 19°C WB, water temperature intake 7°C, outlet 12°C.
- (b) Heating capacity: air 20°C DB , Water temperature intake 45°C, outlet 40°C.
- (c) Freeze-up : air 27°C DB, 24°C WB , water temperature 6°C intake , 10°C outlet .
- (d) Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.

PRODUCT

| Model | | | FP-85XD/B-T | FP-85XD/B-T | FP-102XD/B-T | FP-102XD/B-T |
|-----------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code | | | EM520N0940 | EM520N0930 | EM520N0920 | EM520N0910 |
| Power system | Type | V-Ph-Hz | 208-230V~ 60Hz | 220-240V~ 50Hz | 208-230V~ 60Hz | 220-240V~ 50Hz |
| | Input | W | 70 | 75 | 130 | 110 |
| Air flow volume | High | CFM | 459 | 471 | 600 | 600 |
| | | m ³ /h | 780 | 800 | 1020 | 1020 |
| | Medium | CFM | 371 | 382 | 599 | 599 |
| | | m ³ /h | 630 | 650 | 950 | 950 |
| | Low | CFM | 324 | 324 | 529 | 529 |
| | | m ³ /h | 550 | 550 | 900 | 900 |
| Capacity | Cooling | W | 4600 | 4500 | 5400 | 5000 |
| | Heating | W | 7800 | 5600 | 9000 | 6500 |
| Electric heater rated power | | W | - | - | - | - |
| Water system | Cooling water flow volume | l/s | 0.22 | 0.21 | 0.26 | 0.24 |
| | Heating water flow volume | l/s | 0.22 | 0.13 | 0.26 | 0.17 |
| | Cooling pressure drop | kPa | 27 | 24 | 48 | 36 |
| | Heating pressure drop | kPa | 24 | 8 | 47 | 13 |
| Sound pressure level | | dB(A) | 39 | 39 | 49 | 49 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN35D-1 | FN35D-1 | FN35D-1 | FN35D-1 |
| | Capacitor | μF | 2.00 | 2.00 | 5.00 | 5.00 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 840×840×190 | 840×840×190 | 840×840×190 | 840×840×190 |
| | Panel T01 | mm | 950×950×60 | 950×950×60 | 950×950×60 | 950×950×60 |
| | Panel TB03 | mm | 950×950×85 | 950×950×85 | 950×950×85 | 950×950×85 |
| Package dimension | Body | mm | 963×963×272 | 963×963×272 | 963×963×272 | 963×963×272 |
| | Panel T01 | mm | 1028×1043×130 | 1028×1043×130 | 1028×1043×130 | 1028×1043×130 |

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|----------------------------|-------------------------|----|---------------|---------------|---------------|---------------|
| (W×D×H) | Panel TB03 | mm | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 |
| Net weight | Body | kg | 25.0 | 25.0 | 25.0 | 25.0 |
| | Panel T01 | kg | 3.0 | 3.0 | 3.0 | 3.0 |
| | Panel TB03 | kg | 7 | 7 | 7 | 7 |
| Gross weight | Body | kg | 33.0 | 33.0 | 33.0 | 33.0 |
| | Panel T01 | kg | 5.0 | 5.0 | 5.0 | 5.0 |
| | Panel TB03 | kg | 11 | 11 | 11 | 11 |
| Loading quantity | 20'GP(with panel T01) | | 57 | 57 | 57 | 57 |
| | 40'GP (with panel T01) | | 133 | 133 | 133 | 133 |
| | 40'HQ (with panel T01) | | 149 | 149 | 149 | 149 |
| | 20'GP (with panel TB03) | | 56 | 56 | 56 | 56 |
| | 40'GP (with panel TB03) | | 131 | 131 | 131 | 131 |
| | 40'HQ (with panel TB03) | | 147 | 147 | 147 | 147 |
| Wired remote controller | | | Z4E351B | Z4E351B | Z4E351B | Z4E351B |
| Wireless remote controller | | | YB1FA(X-FAN) | YB1FA(X-FAN) | YB1FA(X-FAN) | YB1FA(X-FAN) |

| Model | | | FP-125XD/B-T | FP-125XD/B-T | FP-140XD/B-T | FP-140XD/B-T |
|-----------------------------|---------------------------|-------------------|----------------|----------------|----------------|----------------|
| Code | | | EM520N0900 | EM520N0890 | EM520N0880 | EM520N0870 |
| Power system | Type | V-Ph-Hz | 208-230V~ 60Hz | 220-240V~ 50Hz | 208-230V~ 60Hz | 220-240V~ 50Hz |
| | Input | W | 130 | 82 | 140 | 120 |
| Air flow volume | High | CFM | 665 | 694 | 794 | 824 |
| | | m ³ /h | 1130 | 1180 | 1350 | 1400 |
| | Medium | CFM | 529 | 588 | 647 | 735 |
| | | m ³ /h | 900 | 1000 | 1100 | 1250 |
| | Low | CFM | 441 | 529 | 588 | 676 |
| | | m ³ /h | 750 | 900 | 1000 | 1150 |
| Capacity | Cooling | W | 6300 | 6000 | 8000 | 8000 |
| | Heating | W | 10000 | 7800 | 12000 | 9000 |
| Electric heater rated power | | W | - | - | - | - |
| Water system | Cooling water flow volume | l/s | 0.3 | 0.29 | 0.38 | 0.38 |
| | Heating water flow volume | l/s | 0.3 | 0.18 | 0.38 | 0.21 |

PRODUCT

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|----------------------------|-------------------------|-------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Cooling pressure drop | kPa | 27 | 24 | 33 | 30 |
| | Heating pressure drop | kPa | 28 | 9 | 29 | 10 |
| Sound pressure level | | dB(A) | 43 | 43 | 48 | 50 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN35B-1 | FN35B-1 | FN35C | FN35C |
| | Capacitor | μF | 2.00 | 2.00 | 4.00 | 4.00 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 840×840×240 | 840×840×240 | 840×840×240 | 840×840×240 |
| | Panel T01 | mm | 950×950×60 | 950×950×60 | 950×950×60 | 950×950×60 |
| | Panel TB03 | mm | 950×950×85 | 950×950×85 | 950×950×85 | 950×950×85 |
| Package dimension (W×D×H) | Body | mm | 963×963×325 | 963×963×325 | 963×963×325 | 963×963×325 |
| | Panel T01 | mm | 1028×1043×130 | 1028×1043×130 | 1028×1043×130 | 1028×1043×130 |
| | Panel TB03 | mm | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 |
| Net weight | Body | kg | 27.0 | 27.0 | 27.0 | 27.0 |
| | Panel T01 | kg | 3.0 | 3.0 | 3.0 | 3.0 |
| | Panel TB03 | kg | 7 | 7 | 7 | 7 |
| Gross weight | Body | kg | 34.0 | 34.0 | 35.0 | 35.0 |
| | Panel T01 | kg | 5.0 | 5.0 | 5.0 | 5.0 |
| | Panel TB03 | kg | 11 | 11 | 11 | 11 |
| Loading quantity | 20'GP(with panel T01) | | 50 | 50 | 50 | 50 |
| | 40'GP (with panel T01) | | 121 | 121 | 121 | 121 |
| | 40'HQ (with panel T01) | | 134 | 134 | 134 | 134 |
| | 20'GP (with panel TB03) | | 50 | 50 | 50 | 50 |
| | 40'GP (with panel TB03) | | 117 | 117 | 117 | 117 |
| | 40'HQ (with panel TB03) | | 133 | 133 | 133 | 133 |
| Wired remote controller | | | Z4E351B | Z4E351B | Z4E351B | Z4E351B |
| Wireless remote controller | | | YB1FA(X-FAN) | YB1FA(X-FAN) | YB1FA(X-FAN) | YB1FA(X-FAN) |

PRODUCT

| Model | | | FP-160XD/B-T | FP-160XD/B-T | FP-180XD/B-T | FP-180XD/B-T |
|-----------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code | | | EM520N0860 | EM520N0850 | EM520N0840 | EM520N0830 |
| Power system | Type | V-Ph-Hz | 208-230V~ 60Hz | 220-240V~ 50Hz | 208-230V~ 60Hz | 220-240V~ 50Hz |
| | Input | W | 140 | 125 | 160 | 160 |
| Air flow volume | High | CFM | 912 | 912 | 1059 | 1059 |
| | | m ³ /h | 1550 | 1550 | 1800 | 1800 |
| | Medium | CFM | 765 | 824 | 824 | 853 |
| | | m ³ /h | 1300 | 1400 | 1400 | 1450 |
| | Low | CFM | 676 | 765 | 765 | 794 |
| | | m ³ /h | 1150 | 1300 | 1300 | 1350 |
| Capacity | Cooling | W | 9000 | 8700 | 10000 | 9500 |
| | Heating | W | 14000 | 10000 | 16000 | 11000 |
| Electric heater rated power | | W | - | - | - | - |
| Water system | Cooling water flow volume | l/s | 0.43 | 0.42 | 0.48 | 0.45 |
| | Heating water flow volume | l/s | 0.43 | 0.23 | 0.48 | 0.27 |
| | Cooling pressure drop | kPa | 34 | 30 | 42 | 34 |
| | Heating pressure drop | kPa | 34 | 11 | 43 | 12 |
| Sound pressure level | | dB(A) | 51 | 51 | 50 | 50 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN35C | FN35C | FN50K-1 | FN50K-1 |
| | Capacitor | μF | 5.00 | 5.00 | 3.50 | 3.50 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 840×840×240 | 840×840×240 | 840×840×320 | 840×840×320 |
| | Panel T01 | mm | 950×950×60 | 950×950×60 | 950×950×60 | 950×950×60 |
| | Panel TB03 | mm | 950×950×85 | 950×950×85 | 950×950×85 | 950×950×85 |
| Package dimension | Body | mm | 963×963×325 | 963×963×325 | 963×963×409 | 963×963×409 |
| | Panel T01 | mm | 1028×1043×130 | 1028×1043×130 | 1028×1043×130 | 1028×1043×130 |

PRODUCT

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|----------------------------|-------------------------|----|---------------|---------------|---------------|---------------|
| (W×D×H) | Panel TB03 | mm | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 |
| Net weight | Body | kg | 27.0 | 27.0 | 32.0 | 32.0 |
| | Panel T01 | kg | 3.0 | 3.0 | 3.0 | 3.0 |
| | Panel TB03 | kg | 7 | 7 | 7 | 7 |
| Gross weight | Body | kg | 35.0 | 35.0 | 41.0 | 41.0 |
| | Panel T01 | kg | 5.0 | 5.0 | 5.0 | 5.0 |
| | Panel TB03 | kg | 11 | 11 | 11 | 11 |
| Loading quantity | 20'GP(with panel T01) | | 50 | 50 | 42 | 42 |
| | 40'GP (with panel T01) | | 121 | 121 | 98 | 98 |
| | 40'HQ (with panel T01) | | 134 | 134 | 112 | 112 |
| | 20'GP (with panel TB03) | | 50 | 50 | 42 | 42 |
| | 40'GP (with panel TB03) | | 117 | 117 | 98 | 98 |
| | 40'HQ (with panel TB03) | | 133 | 133 | 112 | 112 |
| Wired remote controller | | | Z4E351B | Z4E351B | Z4E351B | Z4E351B |
| Wireless remote controller | | | YB1FA(X-FAN) | YB1FA(X-FAN) | YB1FA(X-FAN) | YB1FA(X-FAN) |

| | | | | |
|-----------------------------|---------------------------|-------------------|----------------|----------------|
| Model | | | FP-200XD/B-T | FP-200XD/B-T |
| Code | | | EM520N0820 | EM520N0810 |
| Power system | Type | V-Ph-Hz | 208-230V~ 60Hz | 220-240V~ 50Hz |
| | Input | W | 230 | 210 |
| Air flow volume | High | CFM | 1176 | 1176 |
| | | m ³ /h | 2000 | 2000 |
| | Medium | CFM | 912 | 1000 |
| | | m ³ /h | 1550 | 1700 |
| | Low | CFM | 735 | 853 |
| | | m ³ /h | 1250 | 1450 |
| Capacity | Cooling | W | 13000 | 13000 |
| | Heating | W | 19000 | 14600 |
| Electric heater rated power | | W | - | - |
| Water system | Cooling water flow volume | l/s | 0.62 | 0.62 |
| | Heating water flow volume | l/s | 0.62 | 0.25 |
| | Cooling pressure drop | kPa | 35 | 34 |

PRODUCT

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|----------------------------|-------------------------|-------|--------------------------|--------------------------|
| | Heating pressure drop | kPa | 35 | 30 |
| Sound pressure level | | dB(A) | 55 | 55 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN50K-2 | FN50K-2 |
| | Capacitor | μF | 5.00 | 5.00 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 840×840×320 | 840×840×320 |
| | Panel T01 | mm | 950×950×60 | 950×950×60 |
| | Panel TB03 | mm | 950×950×85 | 950×950×85 |
| Package dimension (W×D×H) | Body | mm | 963×963×409 | 963×963×409 |
| | Panel T01 | mm | 1028×1043×130 | 1028×1043×130 |
| | Panel TB03 | mm | 1033×1038×133 | 1033×1038×133 |
| Net weight | Body | kg | 33.0 | 33.0 |
| | Panel T01 | kg | 3.0 | 3.0 |
| | Panel TB03 | kg | 7 | 7 |
| Gross weight | Body | kg | 42.0 | 42.0 |
| | Panel T01 | kg | 5.0 | 5.0 |
| | Panel TB03 | kg | 11 | 11 |
| Loading quantity | 20'GP(with panel T01) | | 42 | 42 |
| | 40'GP (with panel T01) | | 98 | 98 |
| | 40'HQ (with panel T01) | | 112 | 112 |
| | 20'GP (with panel TB03) | | 42 | 42 |
| | 40'GP (with panel TB03) | | 98 | 98 |
| | 40'HQ (with panel TB03) | | 112 | 112 |
| Wired remote controller | | | Z4E351B | Z4E351B |
| Wireless remote controller | | | YB1FA(X-FAN) | YB1FA(X-FAN) |

PRODUCT

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|-----------------------------|---------------------------|-------------------|--------------------------|---------|
| Model | | | FP-200XD/D-K | |
| Code | | | EM520N1210 | |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | |
| | Input | W | 140 | |
| Air flow volume | High | CFM | 1177 | |
| | | m ³ /h | 2000 | |
| | Medium | CFM | 1000 | |
| | | m ³ /h | 1700 | |
| | Low | CFM | 853 | |
| | | m ³ /h | 1450 | |
| Capacity | Cooling | W | 12000 | |
| | Heating | W | 14200 | |
| Electric heater rated power | | W | - | |
| Water system | Cooling water flow volume | l/s | 0.62 | |
| | Heating water flow volume | l/s | 0.4 | |
| | Cooling pressure drop | kPa | 34 | |
| | Heating pressure drop | kPa | 30 | |
| Sound pressure level | | dB(A) | 55 | |
| Coil | Type | - | Aluminum fin-copper tube | |
| | Operating pressure | MPa | ≤1.6MPa | |
| Motor | Type | - | FN60C-ZL | |
| | Capacitor | μF | / | |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | |
| | Condensing water drain | mm | 25 | |
| Outline dimension (W×D×H) | Body | mm | 840×840×320 | |
| | Panel T01 | mm | 950×950×60 | |
| | Panel TB03 | mm | 950×950×85 | |
| Package dimension (W×D×H) | Body | mm | 963×963×409 | |
| | Panel T01 | mm | 1028×1043×130 | |
| | Panel TB03 | mm | 1033×1038×133 | |
| Net weight | Body | kg | 32.0 | |
| | Panel TB03 | kg | 7 | |
| Gross weight | Body | kg | 41.0 | |
| | Panel TB03 | kg | 11 | |
| | 20'GP (with panel TB03) | | | 42 |
| | 40'GP (with panel TB03) | | | 98 |
| | 40'HQ (with panel TB03) | | | 112 |
| | Wired remote controller | | | Z4E351B |
| Wireless remote controller | | | YB1FA(MOTO) | |

PRODUCT

| Model | | | FP-68XDT/B-K | FP-85XDT/B-K | FP-125XDT/B-K | FP-180XDT/B-K |
|-----------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Code | | | EM520N0990 | EM520N0960 | EM520N0970 | EM520N0980 |
| Power system | Type | V-Ph-Hz | 220-240V~ 50Hz | 220-240V~ 50Hz | 220-240V~ 50Hz | 220-240V~ 50Hz |
| | Input | W | 82 | 82 | 135 | 191 |
| Air flow volume | High | CFM | 400 | 500 | 736 | 1059 |
| | | m ³ /h | 680 | 850 | 1250 | 1800 |
| | Medium | CFM | 364 | 450 | 652 | 897 |
| | | m ³ /h | 618 | 764 | 1108 | 1525 |
| | Low | CFM | 336 | 410 | 597 | 836 |
| | | m ³ /h | 571 | 697 | 1014 | 1421 |
| Capacity | Cooling | W | 3500 | 4100 | 6000 | 8000 |
| | Heating | W | 6000 | 6800 | 9500 | 13000 |
| Electric heater rated power | | W | - | - | - | - |
| Water system | Cooling water flow volume | l/s | 0.21 | 0.24 | 0.29 | 0.44 |
| | Heating water flow volume | l/s | 0.17 | 0.19 | 0.27 | 0.36 |
| | Cooling pressure drop | kPa | 34.14 | 56.71 | 43.07 | 39.65 |
| | Heating pressure drop | kPa | 76.44 | 86.08 | 91.94 | 102.21 |
| Sound pressure level | | dB(A) | 39 | 40 | 43 | 50 |
| Coil | Type | - | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Operating pressure | MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa | ≤1.6MPa |
| Motor | Type | - | FN35D-1 | FN35D-1 | FN35B-1 | FN50K-1 |
| | Capacitor | μF | 2.0 | 3.0 | 4.0 | 4.5 |
| Connection pipe size | Water inlet & outlet | inch | G3/4" | G3/4" | G3/4" | G3/4" |
| | Condensing water drain | mm | 25 | 25 | 25 | 25 |
| Outline dimension (W×D×H) | Body | mm | 840×840×190 | 840×840×190 | 840×840×240 | 840×840×320 |
| | Panel TB03 | mm | 950×950×85 | 950×950×85 | 950×950×85 | 950×950×85 |

PRODUCT

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|---------------------------|-------------------------|----|---------------|---------------|---------------|---------------|
| Package dimension (W×D×H) | Body | mm | 960×960×257 | 960×960×257 | 960×960×310 | 960×960×394 |
| | Panel TB03 | mm | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 | 1033×1038×133 |
| Net weight | Body | kg | 25.0 | 25.0 | 27.0 | 32.0 |
| | Panel TB03 | kg | 7 | 7 | 7 | 7 |
| Gross weight | Body | kg | 33.0 | 33.0 | 34.0 | 41.0 |
| | Panel TB03 | kg | 11 | 11 | 11 | 11 |
| Loading quantity | 20'GP (with panel TB03) | | 56 | 56 | 50 | 42 |
| | 40'GP (with panel TB03) | | 131 | 131 | 121 | 98 |
| | 40'HQ (with panel TB03) | | 147 | 147 | 134 | 112 |

Testing condition:

For 60Hz :

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 60°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

- (a) Cooling capacity: air 27°C DB, 19.5°C WB, water temperature: intake 7°C, outlet 12°C.
- (b) Heating capacity: air 21°C DB, Water temperature intake 60°C, the water-flow volume is same as Cooling capacity .
- (c) Freeze-up : air 27°C DB, 24°C WB, water temperature intake 6°C, outlet 9°C.
- (d) Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.

For 50 Hz :

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 60°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

- (a) Cooling capacity: air 27°C DB , 19°C WB, water temperature intake 7°C, outlet 12°C.
- (b) Heating capacity: air 20°C DB , Water temperature intake 50°C, outlet 40°C.
- (c) Freeze-up : air 27°C DB, 24°C WB , water temperature 6°C intake , 10°C outlet .
- (d) Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.

For 4 pipes:

The FCU designed for installation indoor. The environmental temperature is from 5°C to 43°C, water working temperature is from 7°C to 70°C.

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

- (a) Cooling capacity: air 27°C DB , 19°C WB, water temperature intake 7°C, outlet 12°C.
- (b) Heating capacity: air 20°C DB , Water temperature intake 70°C, outlet 60°C.
- (c) Freeze-up : air 27°C DB, 24°C WB , water temperature 6°C intake , 10°C outlet .
- (d) Sound power level according to ISO 5151. Sound pressure level are calculated at the below of air-outlet 1m and 1m distance. The noise are tested before leaving factory.