

SPECIFICATIONS

MDB MODELS

| MODEL | INDOOR UNIT | | MDB075D | MDB100D | MDB125D | MDB150D1 | MDB150D2 |
|--------------------------------|-----------------|-----------------------------------|---|---------------------------|-----------------|----------------|---|
| TOTAL COOLING CAPACITY | INDOOR UNIT | | MMC075D | MMC100D | MMC125D | MMC150D | MMC075D x2 |
| | OUTDOOR UNIT | | | | | | |
| | 35 °CDB | Btu/h | 75 000 | 100 000 | 125 000 | 150 000 | 150 000 |
| CAPACITY | | kcal/h | 18 900 | 25 200 | 31 500 | 37 800 | 37 800 |
| | | W | 21 975 | 29 300 | 36 625 | 43 950 | 43 950 |
| | | | | | | | |
| CASING | MATERIAL | | ELECTRO GALVANISED MILD STEEL | | | | |
| | FINISHING | | EPOXY POLYESTER POWDER COATING | | | | |
| | INSULATION | | PE | | | | |
| DIMENSION | HEIGHT (H) | mm (in) | 507 (19.96) | | | 710 (27.95) | |
| | WIDTH (W) | mm (in) | 1507 (59.33) | 1917 (75.47) | 1794 (70.62) | 2073 (81.61) | 2073 (81.61) |
| | DEPTH (D) | mm (in) | 859 (33.81) | | | 964 (37.95) | |
| NET WEIGHT | | kg (lb) | 95 (209) | 120 (264) | 155 (341) | 175 (385) | 175 (385) |
| NOISE LEVEL | | dBA | 66 | 71 | 76,8 | 78,6 | 78,6 |
| EVAPORATOR COIL | | | | | | | |
| TYPE | | | | | | | |
| CROSS FINNED TUBES | | | | | | | |
| TUBE | MATERIAL | | SEAMLESS COPPER | | | | |
| | WALL THICKNESS | mm (in) | 0.35 (0.013) | | | | |
| | OUTER DIAMETER | mm (in) | 9.52 (3/8) | | | | |
| FIN | MATERIAL | | ALUMINIUM | | | | |
| | THICKNESS | mm (in) | 0.127 (0.005) | | | | |
| | ROWS | | 3 | | | | |
| | FIN PER INCH | | 14 | | | | |
| CAPACITY STEP | | % | 100-0 | | | | 100-50-0 |
| FACE AREA | | m ² (ft ²) | 0.53 (5.73) | 0.72 (7.75) | 0.89 (9.66) | 1.06 (11.50) | |
| FACE VELOCITY | | m/min (FPM) | 119.48 (392) | 117.95 (387) | 118.26 (388) | 119.17 (391) | |
| EVAPORATOR BLOWER | | | | | | | |
| TYPE / DRIVE | | | | | | | |
| CENTRIFUGAL / DIRECT | | | | CENTRIFUGAL / BELT DRIVEN | | | |
| BLOWER MATERIAL | | | | | | | |
| ZINC COATED STEEL | | | | | | | |
| QUANTITY | | | | | | | |
| 2 | | | | 1 | | | |
| BLOWER DIAMETER | | mm (in) | 282.70 (11.13) | | 394.97 (15.55) | | |
| BLOWER LENGTH | | mm (in) | 203.20 (8.00) | | 381.00 (15.00) | | |
| AIR FLOW | | CMM (CFM) | 63.73 (2250) | 84.98 (3000) | 106.23 (3750) | 127.47 (4500) | |
| EXTERNAL STATIC PRESSURE | | mm wg (in wg) | 10.2 (0.40) | | 15.2 (0.6) | | |
| BLOWER PULLEY DIAMETER | | mm | - | - | 1 SPZ 160 | | |
| MOTOR PULLEY DIAMETER | | mm | - | - | 1 SPZ 85 | | |
| PULLEY | | TYPE | - | - | 1 SPZ | | |
| V-BELT | | TYPE | - | - | SPZ 760 | | |
| EVAPORATOR BLOWER MOTOR | | | | | | | |
| TYPE | | | | | | | |
| PERMANENT SPLIT CAPACITOR | | | | SQUIRREL CAGE INDUCTION | | | |
| POWER SUPPLY | | V / Ph / Hz | 240 / 1 / 50 | | 400 / 3 / 50 | | |
| NUMBER x RATED RUNNING CURRENT | | A | 2 x 1.85 | 2 x 2.11 | 3,39 | | |
| NUMBER x RATED OUTPUT | | W | 2 x 270 | 2 x 332 | 1 500 | | |
| NUMBER x RATED INPUT | | W | 2 x 405 | 2 x 504 | - | | |
| MOTOR POLES | | | 6 | | 4 | | |
| REFRIGERANT | | | | | | | |
| TYPE | | | | | | | |
| R22 | | | | | | | |
| TYPE OF GAS PRECHARGED | | | | | | | |
| NITROGEN HOLDING | | | | | | | |
| CONTROL | | | | | | | |
| THERMOSTATIC EXPANSION VALVE | | | | | | | |
| PIPE CONNECTION | | | | | | | |
| BRAZING | | | | | | | |
| PIPE SIZE | LIQUID | mm (in) | 12.70 (1/2) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 12.70 (1/2) |
| | GAS | mm (in) | 28.57 (1-1/8) | 34.92 (1-3/8) | 34.92 (1-3/8) | 41.28 (1-5/8) | 28.57 (1-1/8) |
| DRAIN PIPE CONNECTION | | mm (in) | 25.40 (1.00) | | | | |
| AIR FILTER | | | | | | | |
| TYPE | | | | | | | |
| AAF R15 | | | | | | | |
| SIZE | LENGTH x HEIGHT | mm | 399 x 385 | 536 x 385 | 508 x 581 | 601 x 581 | |
| | DEPTH | mm (in) | 50.8 (2.00) | | | | |
| QUANTITY | | | 3 | | | | |
| CASING | | | | | | | |
| ELECTRO GALVANISED MILD STEEL | | | | | | | |
| EPOXY POLYESTER POWDER | | | | | | | |
| DIMENSION | HEIGHT (H) | mm (in) | 1041 (40.98) | | | 1142 (44.96) | |
| | WIDTH (W) | mm (in) | 981 (38.62) | | 1083 (42.63) | | |
| | DEPTH (D) | mm (in) | 981 (38.62) | | 1083 (42.63) | | |
| NET WEIGHT | | kg (lb) | 170 (374) | 184 (405) | 197 (434) | 268 (590) | 170 (374) |
| NOISE LEVEL | | dBA | 64 | 66 | 68 | 74 | 75 |
| CONDENSER COIL | | | | | | | |
| TYPE | | | | | | | |
| CROSS FINNED TUBES | | | | | | | |
| TUBE | MATERIAL | | SEAMLESS COPPER | | INNER GROOVED | | SEAMLESS COPPER |
| | WALL THICKNESS | mm (in) | 0.35 (0.013) | | | | |
| | OUTER DIAMETER | mm (in) | 9.52 (3/8) | | | | |
| FIN | MATERIAL | | ALUMINIUM | | | | |
| | THICKNESS | mm (in) | 0.127 (0.005) | | | | |
| | NUMBER x ROWS | | 2 x 1 | | 2 x 2 | 2 x 1 | |
| | FIN PER INCH | | 20 | | 16 | 20 | |
| FACE AREA | | m ² (ft ²) | 2.29 (24.72) | 2.26 (24.38) | 2.54 (27.38) | 2.82 (30.40) | 2.29 (24.72) |
| FACE VELOCITY | | m/min (FPM) | 86.25 (283) | 87.47 (287) | 111.25 (365) | 100.27 (329) | 86.25 (283) |
| CONDENSER FAN | | | | | | | |
| TYPE | | | | | | | |
| INDUCTION | | | | | | | |
| DRIVE | | | | | | | |
| PROPELLER / DIRECT | | | | | | | |
| BLADE MATERIAL | | | | | | | |
| ALUMINIUM | | | | | | | |
| BLADE DIAMETER | | mm (in) | 812.80 (32) | | 914.40 (36) | | |
| POWER SUPPLY | | V / Ph / Hz | 415 / 3 / 50 | | | | |
| RATED RUNNING CURRENT | | A | 1,15 | | 1,25 | | |
| RATED OUTPUT | | W | 350 | | 180 | | |
| RATED INPUT | | W | 550 | | 540 | | |
| MOTOR POLES | | | 10 | | 12 | | |
| AIR FLOW | | CMM (CFM) | 198.30 (7000) | | 283.28 (10,000) | | |
| COMPRESSOR | | | | | | | |
| TYPE | | | | | | | |
| SCROLL COMPRESSOR | | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 380-415 / 3 / 50 | | | | |
| RATED RUNNING CURRENT | | A | 13,6 | 16,9 | 17,9 | 23,5 | 13,6 |
| RATED OUTPUT | | W | 6 000 | 7 500 | 8 940 | 11 250 | 6 000 |
| RATED INPUT | | W | 6 810 | 9 040 | 10 200 | 13 300 | 6 810 |
| MAXIMUM STARTING CURRENT | | A | 95,0 | 125,0 | 110,0 | 198,0 | 95,0 |
| PROTECTION DEVICE | | | OVERLOAD PROTECTION AND MANUAL RESET HIGH/LOW PRESSURE SWITCH | | | CONTROL MODULE | OIL PROTECTION & MANUAL RESET H/L PRESS. SW |
| STAGE OF CAPACITY CONTROL | | | | | | | |
| ON / OFF | | | | | | | |
| STARTER TYPE | | | | | | | |
| AUTO-TRANSFORMER | | | | | | | |
| REFRIGERANT | | | | | | | |
| TYPE | | | | | | | |
| R22 | | | | | | | |
| TYPE OF GAS PRECHARGED | | | | | | | |
| NITROGEN HOLDING | | | | | | | |

NOTES :

1. ALL UNITS ARE BEING TESTED AND COMPLY TO AR1210/240-89.
2. NOMINAL COOLING CAPACITIES ARE BASED ON THE FOLLOWING CONDITIONS. INDOOR 26.7°C DB/ 19.4°C WB, OUTDOOR 35°C DB.
3. ALLOWABLE OPERATING RANGE : COOLING - INDOOR 19.4°C DB/ 13.9°C WB & OUTDOOR 19.4°C DB TO INDOOR 26.7°C DB/ 19.4°C WB & OUTDOOR 46.1°C DB.
4. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY MANUFACTURER WITHOUT PRIOR NOTICE.
5. AIR FILTER IS AN OPTIONAL ITEM.

SPECIFICATIONS

MDB MODELS

| MODEL | INDOOR UNIT | | MDB075DR | MDB100DR | MDB125DR | MDB150DR1 | MDB150DR2 |
|---------------------------------|--|-----------------------------------|--|---------------|-----------------|---|-----------------|
| TOTAL COOLING CAPACITY | OUTDOOR 35 °CDB | Btu/h | 78 000 | 100 000 | 120 000 | 145 000 | |
| | | kcal/h | 19 656 | 25 200 | 30 240 | 36 539 | |
| | | W | 22 860 | 29 308 | 35 200 | 42 497 | |
| TOTAL HEATING CAPACITY | OUTDOOR 35 °CDB | Btu/h | 80 000 | 105 000 | 120 000 | 150 000 | |
| | | kcal/h | 20 160 | 26 460 | 30 240 | 37 799 | |
| | | W | 23 447 | 30 774 | 35 200 | 43 962 | |
| CASING | MATERIAL FINISHING | | ELECTRO GALVANISED MILD STEEL EPOXY POLYESTER POWDER COATING | | | | |
| DIMENSION | HEIGHT (H) | mm (in) | 507 (19.96) | | 710 (27.95) | | |
| | WIDTH (W) | mm (in) | 1507 (59.33) | 1917 (75.47) | 1794 (70.62) | 2073 (81.61) | 2073 (81.61) |
| | DEPTH (D) | mm (in) | 859 (33.81) | | 964 (37.95) | | |
| NET WEIGHT | | kg (lb) | 95 (209) | 120 (264) | 155 (341) | 175 (385) | 175 (385) |
| NOISE LEVEL | | dBA | 66 | 71 | 76.8 | 78.6 | 78.6 |
| EVAPORATOR COIL | TYPE CROSS FINNED TUBES SEAMLESS COPPER | | | | | | |
| TUBE | WALL THICKNESS | mm (in) | 0.35 (0.013) | | | | |
| | OUTER DIAMETER | mm (in) | 9.52 (3/8) | | | | |
| | FIN | MATERIAL THICKNESS | ALUMINIUM 0.127 (0.005) | | | | |
| | ROWS | | 3 | | | | |
| | FIN PER INCH | | 14 | | | | |
| CAPACITY STEP | | % | 100-0 | | | 100-50-0 | |
| FACE AREA | | m ² (ft ²) | 0.53 (5.73) | 0.72 (7.75) | 0.89 (9.66) | 1.06 (11.50) | |
| FACE VELOCITY | | m/min (FPM) | 119.48 (392) | 117.95 (387) | 118.26 (388) | 119.17 (391) | |
| EVAPORATOR BLOWER | TYPE / DRIVE CENTRIFUGAL / DIRECT CENTRIFUGAL / BELT DRIVEN | | | | | | |
| BLOWER MATERIAL | ZINC COATED STEEL | | | | | | |
| QUANTITY | | | 2 | | 1 | | |
| BLOWER DIAMETER | | mm (in) | 282.70 (11.13) | | 394.97 (15.55) | | |
| BLOWER LENGTH | | mm (in) | 203.20 (8.00) | | 381.00 (15.00) | | |
| AIR FLOW | | CMM (CFM) | 63.73 (2250) | 84.98 (3000) | 106.23 (3750) | 127.47 (4500) | |
| EXTERNAL STATIC PRESSURE | | mm wg (in wg) | 10.16 (0.40) | | 15.00 (0.59) | | |
| BLOWER PULLEY DIAMETER | | mm | | | 1 SPZ 160 | | |
| MOTOR PULLEY DIAMETER | | mm | | | 1 SPZ 85 | | |
| PULLEY | | TYPE | | | 1 SPZ | | |
| V-BELT | | TYPE | | | SPZ 760 | | |
| EVAPORATOR BLOWER MOTOR | TYPE PERMANENT SPLIT CAPACITOR SQUIRREL CAGE INDUCTION | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 240 / 1 / 50 | | 400 / 3 / 50 | | |
| NUMBER x RATED RUNNING CURRENT | | A | 2 x 1.85 | 2 x 2.11 | 3.39 | | |
| NUMBER x RATED OUTPUT | | W | 2 x 270 | 2 x 332 | 1 500 | | |
| NUMBER x RATED INPUT | | W | 2 x 405 | 2 x 504 | | | |
| MOTOR POLES | | | 6 | | 4 | | |
| REFRIGERANT | TYPE R22 | | | | | | |
| TYPE OF GAS PRECHARGED | NITROGEN HOLDING | | | | | | |
| CONTROL | THERMOSTATIC EXPANSION VALVE | | | | | | |
| PIPE CONNECTION | BRAZING | | | | | | |
| PIPE SIZE | LIQUID | mm (in) | 12.70 (1/2) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 12.70 (1/2) |
| | GAS | mm (in) | 28.57 (1-1/8) | 34.92 (1-3/8) | 34.92 (1-3/8) | 41.28 (1-5/8) | 28.57 (1-1/8) |
| DRAIN PIPE CONNECTION | | mm (in) | 25.40 (1.00) | | | | |
| AIR FILTER | TYPE AAF R15 | | | | | | |
| SIZE | LENGTH x HEIGHT | mm | 399 x 385 | 536 x 385 | 508 x 581 | 601 x 581 | |
| | DEPTH | mm (in) | 50.8 (2.00) | | | | |
| QUANTITY | | | 3 | | | | |
| CASING | MATERIAL FINISHING | | ELECTRO GALVANISED MILD STEEL EPOXY POLYESTER POWDER | | | | |
| DIMENSION | HEIGHT (H) | mm (in) | 1041 (40.98) | | 1142 (44.96) | | 1041 (40.98) |
| | WIDTH (W) | mm (in) | 981 (38.62) | | 1083 (42.63) | | 981 (38.62) |
| | DEPTH (D) | mm (in) | 981 (38.62) | | 1083 (42.63) | | 981 (38.62) |
| NET WEIGHT | | kg (lb) | 170 (374) | 184 (405) | 197 (434) | 268 (590) | 170 (374) |
| NOISE LEVEL | | dBA | 64 | 66 | 68 | 74 | 75 |
| CONDENSER COIL | TYPE CROSS FINNED TUBES | | | | | | |
| TUBE | WALL THICKNESS | mm (in) | SEAMLESS COPPER | | INNER GROOVED | | SEAMLESS COPPER |
| | OUTER DIAMETER | mm (in) | 0.35 (0.013) | | | | |
| | FIN | MATERIAL THICKNESS | ALUMINIUM 0.127 (0.005) | | | | |
| | NUMBER x ROWS | | 2 x 1 | 2 x 2 | | 2 x 1 | |
| | FIN PER INCH | | 20 | 16 | | 20 | |
| FACE AREA | | m ² (ft ²) | 2.29 (24.72) | 2.26 (24.38) | 2.54 (27.38) | 2.82 (30.40) | 2.29 (24.72) |
| FACE VELOCITY | | m/min (FPM) | 86.25 (283) | 87.47 (287) | 111.25 (365) | 100.27 (329) | 86.25 (283) |
| CONDENSER FAN | TYPE INDUCTION | | | | | | |
| DRIVE | PROPELLER / DIRECT | | | | | | |
| BLADE MATERIAL | ALUMINIUM | | | | | | |
| BLADE DIAMETER | | mm (in) | 812.80 (32) | | 914.40 (36) | | |
| POWER SUPPLY | | V / Ph / Hz | | | 415 / 3 / 50 | | |
| RATED RUNNING CURRENT | | A | 1,15 | | 1,25 | | |
| RATED OUTPUT | | W | 350 | | 180 | | |
| RATED INPUT | | W | 550 | | 540 | | |
| MOTOR POLES | | | 10 | | 12 | | |
| AIR FLOW | | CMM (CFM) | 198.30 (7000) | | 283.28 (10,000) | | |
| COMPRESSOR | TYPE SCROLL COMPRESSOR | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 380-415 / 3 / 50 | | | | |
| RATED RUNNING CURRENT (COOLING) | | A | 12.4 | 15.5 | 17.5 | 22.8 | 13.6 |
| RATED RUNNING CURRENT (HEATING) | | A | 11,2 | 15,2 | 15,5 | 20,5 | |
| RATED INPUT (COOLING) | | W | 6 700 | 8 100 | 9 800 | 13 500 | 6 810 |
| RATED INPUT (HEATING) | | W | 5 610 | 7 596 | 8 000 | 11 140 | |
| RATED OUTPUT | | W | 6 000 | 7 500 | 8 940 | 11 250 | 6 000 |
| MAXIMUM STARTING CURRENT | | A | 95,0 | 125,0 | 110,0 | 198,0 | 95,0 |
| PROTECTION DEVICE | OVERLOAD PROTECTION AND MANUAL RESET HIGH/LOW PRESSURE SWITC | | | | CONTROL MODULE | OIL PROTECTION & MANUAL RESET H/L PRESS. SW | |
| STAGE OF CAPACITY CONTROL | ON / OFF | | | | | | |
| STARTER TYPE | AUTO-TRANSFORMER | | | | | | |
| REFRIGERANT | TYPE R22 | | | | | | |
| TYPE OF GAS PRECHARGED | NITROGEN HOLDING | | | | | | |

NOTES :

1. ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-89.
2. NOMINAL COOLING CAPACITIES ARE BASED ON THE FOLLOWING CONDITIONS. INDOOR 26.7°C DB/ 19.4°C WB, OUTDOOR 35°C DB.
3. ALLOWABLE OPERATING RANGE : COOLING - INDOOR 19.4°C DB/ 13.9°C WB & OUTDOOR 19.4°C DB TO INDOOR 26.7°C DB/ 19.4°C WB & OUTDOOR 46.1°C DB.
4. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY MANUFACTURER WITHOUT PRIOR NOTICE.
5. AIR FILTER IS AN OPTIONAL ITEM.

SPECIFICATIONS

MDB MODELS

| MODEL | INDOOR UNIT | | MDB200D2 | MDB250D2 | MDB300D2 | MDB400D4 | MDB500D4 |
|--------------------------------|-----------------|-----------------------------------|--|---------------|-----------------|--|-----------------|
| TOTAL COOLING CAPACITY | INDOOR UNIT | | MMC100D x2 | MMC125D x2 | MMC150D x2 | MMC100D x4 | MMC125D x4 |
| | OUTDOOR UNIT | | | | | | |
| | 35 °CDB | Btu/h | 200 000 | 250 000 | 300 000 | 400 000 | 500 000 |
| CAPACITY | | kcal/h | 50 400 | 63 000 | 75 600 | 100 800 | 126 000 |
| | | W | 58 600 | 73 250 | 87 900 | 117 200 | 146 500 |
| | | | | | | | |
| CASING | MATERIAL | | ELECTRO GALVANISED MILD STEEL | | | | |
| | FINISHING | | EPOXY POLYESTER POWDER COATING | | | | |
| | INSULATION | | PE | | | | |
| DIMENSION | HEIGHT (H) | mm (in) | 881 (34.68) | | 983 (38.70) | | 1176 (46.29) |
| | WIDTH (W) | mm (in) | 1324 (52.12) | | 1486 (58.50) | | 1722 (67.79) |
| | DEPTH (D) | mm (in) | 1209 (47.59) | 1298 (51.10) | 1501 (59.09) | 1691 (66.57) | 2047 (80.59) |
| NET WEIGHT | | kg (lb) | 248 (546) | 321 (707) | 394 (868) | 470 (1036) | 567 (1250) |
| NOISE LEVEL | | dBA | 85 | 87,1 | 89,4 | 90,3 | 96,3 |
| EVAPORATOR COIL | | | | | | | |
| TYPE | | | | | | | |
| CROSS FINNED TUBES | | | | | | | |
| TUBE | MATERIAL | | SEAMLESS COPPER | | | | |
| | WALL THICKNESS | mm (in) | 0.35 (0.013) | | | | |
| | OUTER DIAMETER | mm (in) | 9.52 (3/8) | | | | |
| FIN | MATERIAL | | ALUMINIUM | | | | |
| | THICKNESS | mm (in) | 0.127 (0.005) | | | | |
| | ROWS | | 3 | | | | |
| | FIN PER INCH | | 14 | | | | |
| CAPACITY STEP | | % | 100-50-0 | | | 100-75-50-25-0 | |
| FACE AREA | | m ² (ft ²) | 1.43 (15.41) | 1.77 (19.12) | 2.12 (22.90) | 2.89 (31.11) | 3.61 (38.88) |
| FACE VELOCITY | | m/min (FPM) | 118.56 (389) | 119.48 (392) | 119.78 (393) | 117.34 (385) | |
| EVAPORATOR BLOWER | | | | | | | |
| TYPE / DRIVE | | | | | | | |
| CENTRIFUGAL / BELT DRIVEN | | | | | | | |
| BLOWER MATERIAL | | | | | | | |
| ZINC COATED STEEL | | | | | | | |
| QUANTITY | | | | | | | |
| 1 | | | | | | | |
| BLOWER DIAMETER | | mm (in) | 394.97 (15.55) | | 469.90 (18.50) | | 591.82 (23.30) |
| BLOWER LENGTH | | mm (in) | 381.00 (15.00) | | 459.99 (18.11) | | 563.88 (22.20) |
| AIR FLOW | | CMM (CFM) | 169.97 (6000) | 212.46 (7500) | 254.95 (9000) | 339.94 (12,000) | 424.92 (15,000) |
| EXTERNAL STATIC PRESSURE | | mm wg (in wg) | 15.2 (0.6) | | 20.3 (0.8) | 30.5 (1.2) | 45.7 (1.8) |
| BLOWER PULLEY DIAMETER | | mm | 2 SPZ125 | 2 SPZ180 | 2 SPZ250 | 2 SPZ315 | 3 SPA250 |
| MOTOR PULLEY DIAMETER | | mm | 2 SPZ 75 | 2 SPZ95 | 2 SPZ132 | 2 SPZ140 | 3 SPA125 |
| PULLEY | | TYPE | | | 2 SPZ | | 3 SPA |
| V-BELT | | TYPE | SPZ 1150 | SPZ 1400 | SPZ 1650 | SPZ 1987 | SPA 1900 |
| EVAPORATOR BLOWER MOTOR | | | | | | | |
| TYPE | | | | | | | |
| SQUIRREL CAGE INDUCTION | | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 400 / 3 / 50 | | | | |
| NUMBER x RATED RUNNING CURRENT | | A | 6,15 | 8,00 | 10,90 | 14,40 | 20,70 |
| NUMBER x RATED OUTPUT | | W | 3 000 | 4 000 | 5 500 | 7 500 | 11 000 |
| NUMBER x RATED INPUT | | W | | | | | |
| MOTOR POLES | | | 4 | | | | |
| REFRIGERANT | | | | | | | |
| TYPE | | | | | | | |
| R22 | | | | | | | |
| TYPE OF GAS PRECHARGED | | | | | | | |
| NITROGEN HOLDING | | | | | | | |
| CONTROL | | | | | | | |
| THERMOSTATIC EXPANSION VALVE | | | | | | | |
| PIPE CONNECTION | | | | | | | |
| BRAZING | | | | | | | |
| PIPE SIZE | LIQUID | mm (in) | 15.88 (5/8) | | | | |
| | GAS | mm (in) | 34.92 (1-3/8) | | 41.28 (1-5/8) | | 34.92 (1-3/8) |
| DRAIN PIPE CONNECTION | | | | | | | |
| 25.40 (1.00) | | | | | | | |
| AIR FILTER | | | | | | | |
| TYPE | | | | | | | |
| AAF R15 | | | | | | | |
| SIZE | LENGTH x HEIGHT | mm | 470 x 346 | 514 x 397 | 616 x 397 | 474 x 493 | 593 x 493 |
| | DEPTH | mm (in) | 50.8 (2.00) | | | | |
| QUANTITY | | | 8 | | | 12 | |
| CASING | | | | | | | |
| MATERIAL | | | | | | | |
| ELECTRO GALVANISED MILD STEEL | | | | | | | |
| FINISHING | | | | | | | |
| EPOXY POLYESTER POWDER | | | | | | | |
| DIMENSION | HEIGHT (H) | mm (in) | 1041 (40.98) | | | 1142 (44.96) | |
| | WIDTH (W) | mm (in) | 981 (38.62) | | 1083 (42.63) | 981 (38.62) | 1083 (42.63) |
| | DEPTH (D) | mm (in) | 981 (38.62) | | 1083 (42.63) | 981 (38.62) | 1083 (42.63) |
| NET WEIGHT | | kg (lb) | 184 (405) | 197 (434) | 268 (590) | 184 (405) | 197 (434) |
| NOISE LEVEL | | dBA | 66 | 68 | 74 | 66 | 68 |
| CONDENSER COIL | | | | | | | |
| TYPE | | | | | | | |
| CROSS FINNED TUBES | | | | | | | |
| TUBE | MATERIAL | | SEAMLESS COPPER | | INNER GROOVED | SEAMLESS COPPER | INNER GROOVED |
| | WALL THICKNESS | mm (in) | 0.35 (0.013) | | | | |
| | OUTER DIAMETER | mm (in) | 9.52 (3/8) | | | | |
| FIN | MATERIAL | | ALUMINIUM | | | | |
| | THICKNESS | mm (in) | 0.127 (0.005) | | | | |
| | NUMBER x ROWS | | 2 x 2 | | | | |
| | FIN PER INCH | | 16 | | | | |
| FACE AREA | | m ² (ft ²) | 2.26 (24.38) | 2.54 (27.38) | 2.82 (30.40) | 2.26 (24.38) | 2.54 (27.38) |
| FACE VELOCITY | | m/min (FPM) | 87.47 (287) | 111.25 (365) | 100.27 (329) | 87.47 (287) | 111.25 (365) |
| CONDENSER FAN | | | | | | | |
| TYPE | | | | | | | |
| INDUCTION | | | | | | | |
| DRIVE | | | | | | | |
| PROPELLER / DIRECT | | | | | | | |
| BLADE MATERIAL | | | | | | | |
| ALUMINIUM | | | | | | | |
| BLADE DIAMETER | | mm (in) | 812.80 (32) | | 914.40 (36) | 812.80 (32) | 914.40 (36) |
| POWER SUPPLY | | V / Ph / Hz | 415 / 3 / 50 | | | | |
| RATED RUNNING CURRENT | | A | 1,15 | | 1,25 | 1,15 | 1,25 |
| RATED OUTPUT | | W | 350 | | 180 | 350 | 180 |
| RATED INPUT | | W | 550 | | 540 | 500 | 540 |
| MOTOR POLES | | | 10 | | 12 | 10 | 12 |
| AIR FLOW | | CMM (CFM) | 198.30 (7000) | | 283.28 (10,000) | 198.30 (7000) | 283.28 (10,000) |
| COMPRESSOR | | | | | | | |
| TYPE | | | | | | | |
| SCROLL COMPRESSOR | | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 380-415 / 3 / 50 | | | | |
| RATED RUNNING CURRENT | | A | 16,9 | 17,9 | 23,5 | 16,9 | 17,9 |
| RATED OUTPUT | | W | 7 500 | 8 940 | 11 250 | 7 500 | 8 940 |
| RATED INPUT | | W | 9 040 | 10 200 | 13 300 | 9 040 | 10 200 |
| MAXIMUM STARTING CURRENT | | A | 125,0 | 110,0 | 198,0 | 125,0 | 110,0 |
| PROTECTION DEVICE | | | OVERLOAD PROTECTION AND MANUAL HIGH/LOW PRESSURE SWITCH | | CONTROL MODULE | OVERLOAD PROTECTION AND MANUAL HIGH/LOW PRESSURE SWITCH | |
| STAGE OF CAPACITY CONTROL | | | | | | | |
| ON / OFF | | | | | | | |
| STARTER TYPE | | | | | | | |
| AUTO-TRANSFORMER | | | | | | | |
| REFRIGERANT | | | | | | | |
| TYPE | | | | | | | |
| R22 | | | | | | | |
| TYPE OF GAS PRECHARGED | | | | | | | |
| NITROGEN HOLDING | | | | | | | |

NOTES :

1. ALL UNITS ARE BEING TESTED AND COMPLY TO AR1210/240-89.
2. NOMINAL COOLING CAPACITIES ARE BASED ON THE FOLLOWING CONDITIONS. INDOOR 26.7°C DB/ 19.4°C WB, OUTDOOR 35°C DB.
3. ALLOWABLE OPERATING RANGE : COOLING - INDOOR 19.4°C DB/ 13.9°C WB & OUTDOOR 19.4°C DB TO INDOOR 26.7°C DB/ 19.4°C WB & OUTDOOR 46.1°C DB.
4. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY MANUFACTURER WITHOUT PRIOR NOTICE.
5. AIR FILTER IS AN OPTIONAL ITEM.

SPECIFICATIONS

MDB MODELS

| MODEL | INDOOR UNIT | | MDB200DR2 | MDB250DR2 | MDB300DR2 | MDB400DR4 | MDB500DR4 | |
|---------------------------------|--------------------|--|---|-----------------|----------------|--|-----------------|--------------|
| TOTAL COOLING CAPACITY | OUTDOOR | | MMC100DR x2 | MMC125DR x2 | MMC150DR x2 | MMC100DR x4 | MMC125DR x4 | |
| | 35 °CDB | | | | | | | |
| | Btu/h | | | | | | | |
| | kcal/h | | | | | | | |
| TOTAL HEATING CAPACITY | OUTDOOR | | | | | | | |
| | 35 °CDB | | | | | | | |
| | Btu/h | | | | | | | |
| | kcal/h | | | | | | | |
| INDOOR UNIT | CASING | | ELECTRO GALVANISED MILD STEEL EPOXY POLYESTER POWDER COATING | | | | | |
| | MATERIAL FINISHING | | PE | | | | | |
| | INSULATION | | | | | | | |
| | HEIGHT (H) | | mm (in) | 881 (34.68) | 983 (38.70) | | 1176 (46.29) | |
| | WIDTH (W) | | mm (in) | 1324 (52.12) | 1486 (58.50) | | 1722 (67.79) | |
| | DEPTH (D) | | mm (in) | 1209 (47.59) | 1298 (51.10) | 1501 (59.09) | 1691 (66.57) | 2047 (80.59) |
| | NET WEIGHT | | kg (lb) | 248 (546) | 321 (707) | 394 (868) | 470 (1036) | 567 (1250) |
| | NOISE LEVEL | | dB(A) | 85 | 87,1 | 89,4 | 90,3 | 96,3 |
| | EVAPORATOR COIL | | CROSS FINNED TUBES SEAMLESS COPPER | | | | | |
| | TYPE | | | | | | | |
| MATERIAL | | ALUMINIUM | | | | | | |
| WALL THICKNESS | | mm (in) | 0.35 (0.013) | | | | | |
| OUTER DIAMETER | | mm (in) | 9.52 (3/8) | | | | | |
| THICKNESS | | mm (in) | 0.127 (0.005) | | | | | |
| ROWS | | | 3 | | | | | |
| FIN PER INCH | | | 14 | | | | | |
| CAPACITY STEP | | % | 100-50-0 | | 100-75-50-25-0 | | | |
| FACE AREA | | m ² (ft ²) | 1.43 (15.41) | 1.77 (19.12) | 2.12 (22.90) | 2.89 (31.11) | 3.61 (38.88) | |
| FACE VELOCITY | | m/min (FPM) | 118.56 (389) | 119.48 (392) | 119.78 (393) | 117.34 (385) | | |
| EVAPORATOR BLOWER | | CENTRIFUGAL / BELT DRIVEN | | | | | | |
| TYPE / DRIVE | | ZINC COATED STEEL | | | | | | |
| BLOWER MATERIAL | | | | | | | | |
| QUANTITY | | 1 | | | | | | |
| BLOWER DIAMETER | | mm (in) | 394.97 (15.55) | 469.90 (18.50) | | 591.82 (23.30) | | |
| BLOWER LENGTH | | mm (in) | 381.00 (15.00) | 459.99 (18.11) | | 563.88 (22.20) | | |
| AIR FLOW | | CMM (CFM) | 169.97 (6000) | 212.46 (7500) | 254.95 (9000) | 339.94 (12,000) | 424.92 (15,000) | |
| EXTERNAL STATIC PRESSURE | | mm wg (in wg) | 15.00 (0.59) | | 20.00 (0.78) | 30.00 (1.18) | 45.00 (1.77) | |
| BLOWER PULLEY DIAMETER | | mm | 2 SPZ125 | 2 SPZ180 | 2 SPZ250 | 2 SPZ315 | 3 SPA250 | |
| MOTOR PULLEY DIAMETER | | mm | 2 SPZ 75 | 2 SPZ95 | 2 SPZ132 | 2 SPZ140 | 3 SPA125 | |
| PULLEY | | TYPE | 2 SPZ | | | | | |
| V-BELT | | TYPE | SPZ 1150 | SPZ 1400 | SPZ 1650 | SPZ 1987 | SPA 1900 | |
| EVAPORATOR BLOWER MOTOR | | SQUIRREL CAGE INDUCTION | | | | | | |
| TYPE | | | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 400 / 3 / 50 | | | | | |
| NUMBER x RATED RUNNING CURRENT | | A | 6,15 | 8,00 | 10,90 | 14,40 | 20,70 | |
| NUMBER x RATED OUTPUT | | W | 3 000 | 4 000 | 5 500 | 7 500 | 11 000 | |
| NUMBER x RATED INPUT | | W | | | | | | |
| MOTOR POLES | | | 4 | | | | | |
| REFRIGERANT | | R22 | | | | | | |
| TYPE | | | | | | | | |
| TYPE OF GAS PRECHARGED | | NITROGEN HOLDING | | | | | | |
| CONTROL | | THERMOSTATIC EXPANSION VALVE | | | | | | |
| PIPE CONNECTION | | BRAZING | | | | | | |
| PIPE SIZE | | LIQUID | mm (in) | | 15.88 (5/8) | | | |
| | | GAS | mm (in) | | 41.28 (1-5/8) | | | |
| DRAIN PIPE CONNECTION | | mm (in) | 34.92 (1-3/8) | | 34.92 (1-3/8) | | | |
| AIR FILTER | | | | | | | | |
| TYPE | | AAF R15 | | | | | | |
| SIZE | | LENGTH x HEIGHT | mm | 470 x 346 | 514 x 397 | 616 x 397 | 474 x 493 | 593 x 493 |
| | | DEPTH | mm (in) | | 50.8 (2.00) | | | |
| QUANTITY | | | | 8 | | 12 | | |
| OUTDOOR UNIT | CASING | | ELECTRO GALVANISED MILD STEEL EPOXY POLYESTER POWDER | | | | | |
| | MATERIAL FINISHING | | | | | | | |
| | HEIGHT (H) | | mm (in) | 1041 (40.98) | 1142 (44.96) | | 1041 (40.98) | |
| | WIDTH (W) | | mm (in) | 981 (38.62) | 1083 (42.63) | | 981 (38.62) | 1083 (42.63) |
| | DEPTH (D) | | mm (in) | 981 (38.62) | 1083 (42.63) | | 981 (38.62) | 1083 (42.63) |
| | NET WEIGHT | | kg (lb) | 184 (405) | 197 (434) | 268 (590) | 184 (405) | 197 (434) |
| | NOISE LEVEL | | dB(A) | 66 | 68 | 74 | 66 | 68 |
| | CONDENSER COIL | | CROSS FINNED TUBES | | | | | |
| | TYPE | | SEAMLESS COPPER INNER GROOVED SEAMLESS COPPER INNER GROOVED | | | | | |
| | MATERIAL | | | | | | | |
| WALL THICKNESS | | mm (in) | 0.35 (0.013) | | | | | |
| OUTER DIAMETER | | mm (in) | 9.52 (3/8) | | | | | |
| THICKNESS | | mm (in) | 0.127 (0.005) | | | | | |
| NUMBER x ROWS | | | 2 x 2 | | | | | |
| FIN PER INCH | | | 16 | | | | | |
| FACE AREA | | m ² (ft ²) | 2.26 (24.38) | 2.54 (27.38) | 2.82 (30.40) | 2.26 (24.38) | 2.54 (27.38) | |
| FACE VELOCITY | | m/min (FPM) | 87.47 (287) | 111.25 (365) | 100.27 (329) | 87.47 (287) | 111.25 (365) | |
| CONDENSER FAN | | INDUCTION PROPELLER / DIRECT ALUMINIUM | | | | | | |
| TYPE / DRIVE | | | | | | | | |
| BLADE MATERIAL | | | | | | | | |
| BLADE DIAMETER | | mm (in) | 812.80 (32) | 914.40 (36) | | 812.80 (32) | 914.40 (36) | |
| POWER SUPPLY | | V / Ph / Hz | 415 / 3 / 50 | | | | | |
| RATED RUNNING CURRENT | | A | 1,15 | 1,25 | | 1,15 | 1,25 | |
| RATED OUTPUT | | W | 350 | 180 | | 350 | 180 | |
| RATED INPUT | | W | 550 | 540 | | 500 | 540 | |
| MOTOR POLES | | | 10 | 12 | | 10 | 12 | |
| AIR FLOW | | CMM (CFM) | 198.30 (7000) | 283.28 (10,000) | | 198.30 (7000) | 283.28 (10,000) | |
| COMPRESSOR | | SCROLL COMPRESSOR | | | | | | |
| TYPE | | | | | | | | |
| POWER SUPPLY | | V / Ph / Hz | 380-415 / 3 / 50 | | | | | |
| RATED RUNNING CURRENT (COOLING) | | A | | | | | | |
| RATED RUNNING CURRENT (HEATING) | | A | | | | | | |
| RATED INPUT (COOLING) | | W | | | | | | |
| RATED INPUT (HEATING) | | W | | | | | | |
| RATED OUTPUT | | W | 7 500 | 8 940 | 11 250 | 7 500 | 8 940 | |
| MAXIMUM STARTING CURRENT | | A | 125,0 | 110,0 | 198,0 | 125,0 | 110,0 | |
| PROTECTION DEVICE | | OVERLOAD PROTECTION AND MANUAL HIGH/LOW PRESSURE SWITCH | | CONTROL MODULE | | OVERLOAD PROTECTION AND MANUAL HIGH/LOW PRESSURE SWITCH | | |
| STAGE OF CAPACITY CONTROL | | ON / OFF | | | | | | |
| STARTER TYPE | | AUTO-TRANSFORMER | | | | | | |
| REFRIGERANT | | R22 | | | | | | |
| TYPE | | | | | | | | |
| TYPE OF GAS PRECHARGED | | NITROGEN HOLDING | | | | | | |

NOTES :

1. ALL UNITS ARE BEING TESTED AND COMPLY TO ARI210/240-89.
2. NOMINAL COOLING CAPACITIES ARE BASED ON THE FOLLOWING CONDITIONS. INDOOR 26.7°C DB/ 19.4°C WB, OUTDOOR 35°C DB.
3. ALLOWABLE OPERATING RANGE : COOLING - INDOOR 19.4°C DB/ 13.9°C WB & OUTDOOR 19.4°C DB TO INDOOR 26.7°C DB/ 19.4°C WB & OUTDOOR 46.1°C DB.
4. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY MANUFACTURER WITHOUT PRIOR NOTICE.
5. AIR FILTER IS AN OPTIONAL ITEM.