



®

40LM - PRODUCT DATA DIGEST

# CHILLED WATER FAN-COIL UNITS



QUALITY SYSTEM



MALAYSIA  
MS ISO 9001  
REG. NO: AR 0239

# Any room, every room flexibility in an air conditioning system

## FEATURES:

- Chilled Water Furred-in model with Plenum Fan Coil units.
- The low silhouette styling of this unit makes it a popular choice for “in-the-ceiling” or “over the closet” applications in all types of building.
- Horizontal ducted application.
- Insulated & painted condensate drain pan and a factory fitted frame complete with filter media.
- Installed with direct driven forward curved centrifugal fans and 3 speed motor ensures quiet operation.
- Standard copper tube aluminium fins (Cu/Al) evaporator coil for maximum heat transfer.
- Carrier Lanced Sine Wave fin pattern ensures energy efficient performance.
- Units shall be manufactured as left-hand side (in the direction of air flow) piping connection as standard.

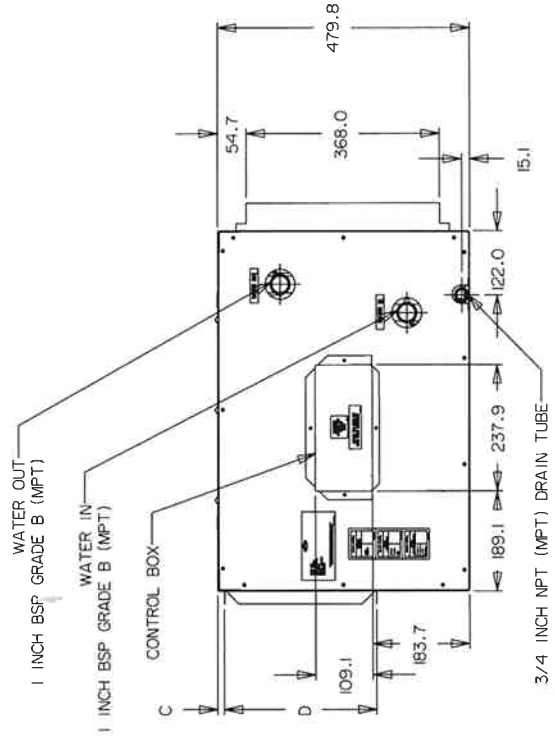
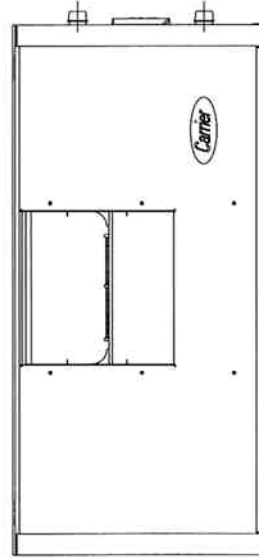
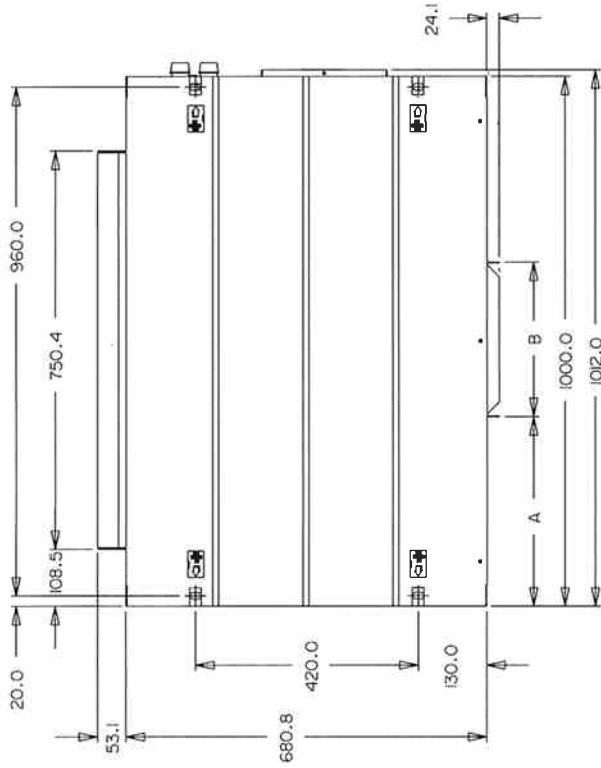
## SPECIFICATIONS

| TYPE             |                  | CHILLED WATER FAN COIL               |                |                |                |                |                 |
|------------------|------------------|--------------------------------------|----------------|----------------|----------------|----------------|-----------------|
| MODEL            |                  | 40LM040                              | 40LM050        | 40LM060        | 40LM070        | 40LM090        | 40LM100         |
| NOMINAL CAPACITY | kW               | 11.6                                 | 14.2           | 18.4           | 21.6           | 29.1           | 30.6            |
|                  | Btu/hr           | 39 580                               | 48 450         | 62 780         | 73 700         | 99 290         | 104 400         |
| AIR QUANTITY     | Range (l/s)      | 420 ~ 660                            | 480 ~ 640      | 550 ~ 750      | 650 ~ 1050     | 550 ~ 1100     | 1000 ~ 1500     |
| POWER SUPPLY     | V/Ph/Hz          | 230/1/50                             |                |                |                |                |                 |
| FAN              | Type             | CENTRIFUGAL FORWARD CURVED BLADES    |                |                |                |                |                 |
|                  | Drive            | DIRECT DRIVE                         |                |                |                |                |                 |
|                  | Quantity         | 1                                    |                |                | 2              |                |                 |
|                  | Max rpm          | 2400                                 | 2400           | 2100           | 2400           | 2100           | 2100            |
|                  | Diameter (mm)    | 225                                  | 225            | 271            | 225            | 271            | 271             |
| FAN MOTOR        | Type             | PERMANENT SPLIT CAPACITOR , 3 SPEEDS |                |                |                |                |                 |
|                  | Quantity         | 1                                    |                |                |                |                |                 |
|                  | kW (in)          | 0.57                                 | 0.55           | 0.82           | 0.90           | 1.43           | 1.47            |
|                  | FLA              | 3.5                                  | 3.5            | 5.0            | 5.5            | 8.6            | 8.6             |
|                  | RPM              | 1280                                 | 1280           | 1155           | 1375           | 1320           | 1320            |
| COIL             | Type             | COPPER TUBES, ALUMINIUM PLATE FINS   |                |                |                |                |                 |
|                  | Row - Fins/in    | 2 - 15                               | 3 - 15         | 4 - 15         | 3 - 15         | 4 - 15         | 3 - 15          |
|                  | Face area (sq.m) | 0.343                                | 0.343          | 0.343          | 0.437          | 0.437          | 0.613           |
| FILTER           | Type             | WASHABLE / THROWAWAY                 |                |                |                |                |                 |
|                  | Size (HxWxD) mm  | 398 x 744 x 12                       | 398 x 744 x 12 | 398 x 744 x 12 | 398 x 944 x 12 | 398 x 944 x 12 | 398 x 1344 x 12 |
|                  | Quantity         | 1                                    |                |                |                |                |                 |
| CONNECTIONS      | Supply           | 1" BSP MPT                           |                |                |                |                |                 |
|                  | Return           | 1" BSP MPT                           |                |                |                |                |                 |
|                  | Drain            | 3/4" NPT MPT                         |                |                |                |                |                 |
| NET WEIGHT       | kg               | 68                                   | 70             | 72             | 95             | 100            | 118             |
| DIMENSIONS       | Height (mm)      | 480                                  |                |                |                |                |                 |
|                  | Width (mm)       | 1000                                 |                |                | 1200           |                | 1600            |
|                  | Depth (mm)       | 680                                  |                |                |                |                |                 |

FLA: FULL LOAD AMPS

# PHYSICAL DIMENSION

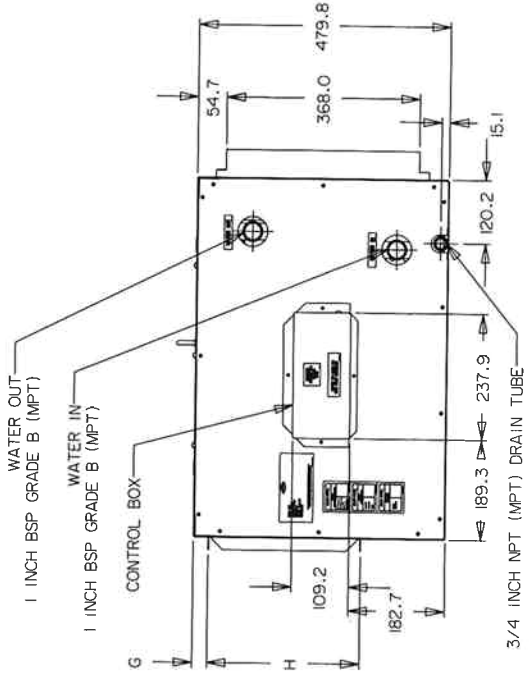
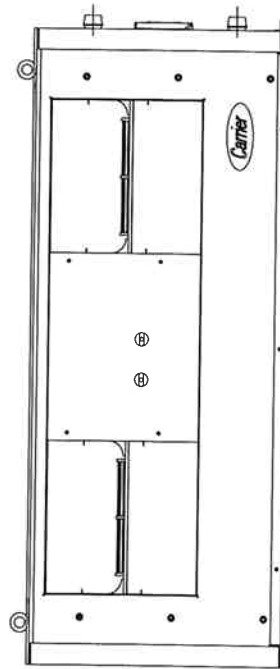
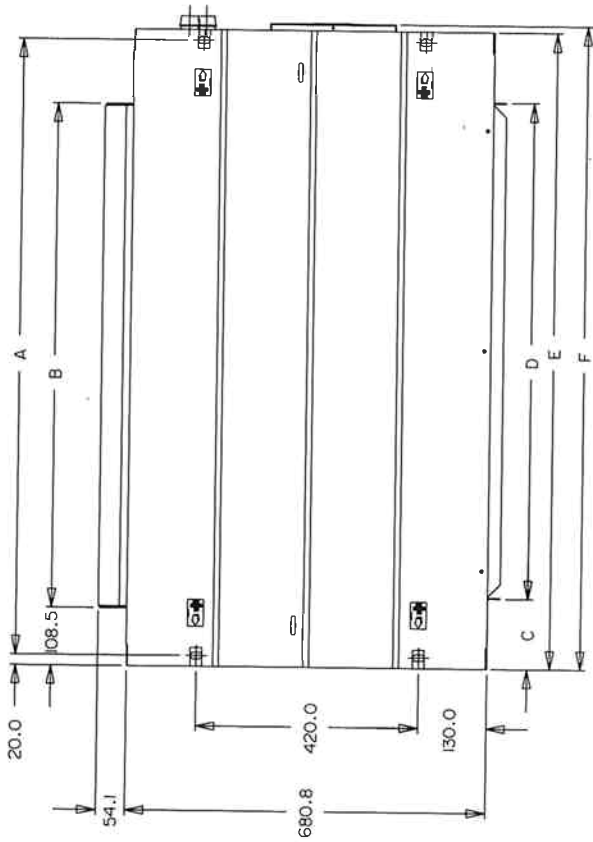
| Model Size  | A     | B     | C    | D     |
|-------------|-------|-------|------|-------|
| 40LM040/050 | 357.6 | 291.2 | 12.6 | 291.2 |
| 40LM060     | 335.1 | 336.2 | 17.2 | 336.2 |



ALL DIMENSION IS IN MM

# PHYSICAL DIMENSION

| Model No | A    | B      | C     | D      | E    | F      | G    | H     |
|----------|------|--------|-------|--------|------|--------|------|-------|
| 40LM070  | 1160 | 949    | 132.4 | 935.2  | 1200 | 1212   | 28.6 | 291.2 |
| 40LM090  | 1160 | 949    | 132.4 | 935.2  | 1200 | 1212   | 28.6 | 335.4 |
| 40LM100  | 1560 | 1350.4 | 287.4 | 1025.2 | 1600 | 1610.8 | 17.6 | 336.2 |



ALL DIMENSION IS IN MM

## PERFORMANCE DATA COOLING CAPACITIES

MODEL: 40LM040

| AIR QUANTITY<br>(l/s) | ENT CHILLED WATER TEMP (°C) | CHILLED WATER FLOW (L/MIN) | ENT AIR TEMP DB/WB (°C) |     |           |     |           |     |
|-----------------------|-----------------------------|----------------------------|-------------------------|-----|-----------|-----|-----------|-----|
|                       |                             |                            | 25.0/17.0               |     | 27.0/19.5 |     | 29.0/22.0 |     |
|                       |                             |                            | TC                      | SHC | TC        | SHC | TC        | SHC |
| 420                   | 5                           | 13                         | 6.6                     | 5.9 | 7.9       | 6.0 | 9.4       | 6.1 |
|                       |                             | 26                         | 7.8                     | 6.5 | 9.8       | 6.8 | 11.9      | 7.1 |
|                       |                             | 39                         | 8.4                     | 6.8 | 10.7      | 7.2 | 13.1      | 7.6 |
|                       | 6                           | 13                         | 6.2                     | 5.6 | 7.4       | 5.8 | 8.9       | 5.9 |
|                       |                             | 26                         | 7.3                     | 6.2 | 9.2       | 6.6 | 11.3      | 6.9 |
|                       |                             | 39                         | 7.8                     | 6.5 | 10.0      | 6.9 | 12.4      | 7.3 |
|                       | 7                           | 13                         | 5.8                     | 5.4 | 7.0       | 5.6 | 8.4       | 5.8 |
|                       |                             | 26                         | 6.7                     | 6.0 | 8.5       | 6.3 | 10.7      | 6.6 |
|                       |                             | 39                         | 7.2                     | 6.2 | 9.3       | 6.6 | 11.7      | 7.1 |
|                       | 8                           | 13                         | 5.4                     | 5.2 | 6.5       | 5.4 | 7.9       | 5.6 |
|                       |                             | 26                         | 6.2                     | 5.7 | 7.9       | 6.1 | 10.0      | 6.4 |
|                       |                             | 39                         | 6.6                     | 6.0 | 8.6       | 6.4 | 11.0      | 6.7 |
|                       | 9                           | 13                         | 5.0                     | 5.0 | 6.1       | 5.2 | 7.4       | 5.4 |
|                       |                             | 26                         | 5.7                     | 5.5 | 7.3       | 5.8 | 9.4       | 6.1 |
|                       |                             | 39                         | 6.1                     | 5.7 | 7.9       | 6.1 | 10.3      | 6.5 |
| 500                   | 5                           | 13                         | 7.1                     | 6.5 | 8.4       | 6.7 | 10.0      | 6.8 |
|                       |                             | 26                         | 8.5                     | 7.3 | 10.6      | 7.6 | 12.9      | 7.9 |
|                       |                             | 39                         | 9.3                     | 7.7 | 11.7      | 8.1 | 14.3      | 8.5 |
|                       | 6                           | 13                         | 6.7                     | 6.3 | 8.0       | 6.5 | 9.4       | 6.6 |
|                       |                             | 26                         | 8.0                     | 7.1 | 9.9       | 7.4 | 12.2      | 7.6 |
|                       |                             | 39                         | 8.6                     | 7.4 | 10.9      | 7.8 | 13.6      | 8.2 |
|                       | 7                           | 13                         | 6.2                     | 6.1 | 7.5       | 6.3 | 8.9       | 6.4 |
|                       |                             | 26                         | 7.4                     | 6.8 | 9.3       | 7.1 | 11.5      | 7.4 |
|                       |                             | 39                         | 8.0                     | 7.1 | 10.2      | 7.5 | 12.8      | 7.9 |
|                       | 8                           | 13                         | 5.9                     | 5.8 | 7.0       | 6.1 | 8.4       | 6.2 |
|                       |                             | 26                         | 6.9                     | 6.5 | 8.6       | 6.8 | 10.8      | 7.1 |
|                       |                             | 39                         | 7.4                     | 6.6 | 9.5       | 7.2 | 12.0      | 7.6 |
|                       | 9                           | 13                         | 5.5                     | 5.5 | 6.6       | 5.8 | 7.9       | 6.0 |
|                       |                             | 26                         | 6.3                     | 6.2 | 7.9       | 6.6 | 10.1      | 6.8 |
|                       |                             | 39                         | 6.7                     | 6.5 | 8.7       | 6.9 | 11.3      | 7.3 |
| 660                   | 5                           | 13                         | 7.9                     | 7.5 | 9.2       | 7.7 | 10.7      | 7.8 |
|                       |                             | 26                         | 9.7                     | 8.6 | 11.7      | 8.9 | 14.3      | 9.1 |
|                       |                             | 39                         | 10.5                    | 9.1 | 13.2      | 9.5 | 16.1      | 9.8 |
|                       | 6                           | 13                         | 7.4                     | 7.3 | 8.7       | 7.5 | 10.2      | 7.6 |
|                       |                             | 26                         | 9.0                     | 8.3 | 10.9      | 8.6 | 13.5      | 8.9 |
|                       |                             | 39                         | 9.8                     | 8.7 | 12.3      | 9.1 | 15.2      | 9.5 |
|                       | 7                           | 13                         | 7.0                     | 7.0 | 8.2       | 7.2 | 9.6       | 7.4 |
|                       |                             | 26                         | 8.4                     | 8.0 | 10.3      | 8.3 | 12.7      | 8.5 |
|                       |                             | 39                         | 9.1                     | 8.4 | 11.6      | 8.9 | 14.3      | 9.2 |
|                       | 8                           | 13                         | 6.6                     | 6.6 | 7.7       | 7.0 | 9.1       | 7.2 |
|                       |                             | 26                         | 7.8                     | 7.6 | 9.6       | 8.0 | 12.0      | 8.3 |
|                       |                             | 39                         | 8.4                     | 8.0 | 10.6      | 8.5 | 13.5      | 8.8 |
|                       | 9                           | 13                         | 6.2                     | 6.2 | 7.2       | 6.8 | 8.6       | 6.9 |
|                       |                             | 26                         | 7.3                     | 7.3 | 8.9       | 7.7 | 11.1      | 8.0 |
|                       |                             | 39                         | 7.7                     | 7.6 | 9.8       | 8.1 | 12.6      | 8.5 |

TC : TOTAL HEAT CAPACITY (kW)

SHC : SENSIBLE HEAT COOLING CAPACITY (kW)

## PERFORMANCE DATA COOLING CAPACITIES

MODEL: 40LM050

| AIR QUANTITY<br>(l/s) | ENT CHILLED WATER TEMP (°C) | CHILLED WATER FLOW (L/MIN) | ENT AIR TEMP DB/WB (°C) |      |           |      |           |      |
|-----------------------|-----------------------------|----------------------------|-------------------------|------|-----------|------|-----------|------|
|                       |                             |                            | 25.0/17.0               |      | 27.0/19.5 |      | 29.0/22.0 |      |
|                       |                             |                            | TC                      | SHC  | TC        | SHC  | TC        | SHC  |
| 480                   | 5                           | 17                         | 8.5                     | 7.5  | 10.2      | 7.7  | 12.0      | 7.8  |
|                       |                             | 33                         | 10.4                    | 8.4  | 12.8      | 8.8  | 15.6      | 9.2  |
|                       |                             | 50                         | 11.2                    | 8.8  | 14.1      | 9.4  | 17.2      | 9.9  |
|                       | 6                           | 17                         | 8.0                     | 7.2  | 9.6       | 7.4  | 11.4      | 7.6  |
|                       |                             | 33                         | 9.6                     | 8.1  | 12.0      | 8.5  | 14.8      | 8.8  |
|                       |                             | 50                         | 10.4                    | 8.4  | 13.2      | 8.9  | 16.3      | 9.5  |
|                       | 7                           | 17                         | 7.5                     | 7.0  | 8.9       | 7.2  | 10.8      | 7.3  |
|                       |                             | 33                         | 8.9                     | 7.7  | 11.3      | 8.2  | 13.9      | 8.5  |
|                       |                             | 50                         | 9.6                     | 8.1  | 12.3      | 8.6  | 15.4      | 9.1  |
|                       | 8                           | 17                         | 7.0                     | 6.7  | 8.4       | 6.9  | 10.2      | 7.1  |
|                       |                             | 33                         | 8.2                     | 7.4  | 10.4      | 7.8  | 13.1      | 8.2  |
|                       |                             | 50                         | 8.8                     | 7.7  | 11.4      | 8.2  | 14.4      | 8.8  |
|                       | 9                           | 17                         | 6.5                     | 6.4  | 7.8       | 6.7  | 9.6       | 6.8  |
|                       |                             | 33                         | 7.6                     | 7.1  | 9.7       | 7.6  | 12.2      | 7.9  |
|                       |                             | 50                         | 8.0                     | 7.4  | 10.5      | 7.9  | 13.6      | 8.4  |
| 520                   | 5                           | 17                         | 8.8                     | 7.9  | 10.5      | 8.0  | 12.3      | 8.1  |
|                       |                             | 33                         | 10.8                    | 8.9  | 13.3      | 9.3  | 16.2      | 9.6  |
|                       |                             | 50                         | 11.7                    | 9.3  | 14.7      | 9.9  | 18.1      | 10.4 |
|                       | 6                           | 17                         | 8.3                     | 7.6  | 9.8       | 7.8  | 11.7      | 7.9  |
|                       |                             | 33                         | 10.0                    | 8.5  | 12.5      | 8.9  | 15.3      | 9.3  |
|                       |                             | 50                         | 10.9                    | 8.9  | 13.8      | 9.5  | 17.0      | 10.0 |
|                       | 7                           | 17                         | 7.7                     | 7.3  | 9.2       | 7.5  | 11.1      | 7.7  |
|                       |                             | 33                         | 9.3                     | 8.2  | 11.7      | 8.6  | 14.4      | 8.9  |
|                       |                             | 50                         | 10.0                    | 8.5  | 12.8      | 9.1  | 16.1      | 9.6  |
|                       | 8                           | 17                         | 7.2                     | 7.0  | 8.7       | 7.3  | 10.4      | 7.4  |
|                       |                             | 33                         | 8.6                     | 7.9  | 10.9      | 8.3  | 13.6      | 8.6  |
|                       |                             | 50                         | 9.2                     | 8.2  | 11.9      | 8.7  | 15.1      | 9.2  |
|                       | 9                           | 17                         | 6.7                     | 6.7  | 8.1       | 7.0  | 9.8       | 7.2  |
|                       |                             | 33                         | 7.9                     | 7.5  | 10.0      | 7.9  | 12.7      | 8.7  |
|                       |                             | 50                         | 8.4                     | 7.8  | 10.9      | 8.3  | 14.1      | 8.8  |
| 640                   | 5                           | 17                         | 9.6                     | 8.8  | 11.2      | 9.0  | 13.1      | 9.1  |
|                       |                             | 33                         | 11.9                    | 10.1 | 14.5      | 10.5 | 17.5      | 10.9 |
|                       |                             | 50                         | 13.0                    | 10.7 | 16.2      | 11.2 | 19.8      | 11.7 |
|                       | 6                           | 17                         | 9.0                     | 8.5  | 10.6      | 8.8  | 12.5      | 8.9  |
|                       |                             | 33                         | 11.1                    | 9.8  | 13.6      | 10.2 | 16.6      | 10.5 |
|                       |                             | 50                         | 12.1                    | 10.3 | 15.2      | 10.8 | 18.8      | 11.3 |
|                       | 7                           | 17                         | 8.5                     | 8.2  | 9.9       | 8.5  | 11.8      | 8.6  |
|                       |                             | 33                         | 10.3                    | 9.4  | 12.8      | 9.8  | 15.6      | 10.1 |
|                       |                             | 50                         | 11.2                    | 9.9  | 14.2      | 10.4 | 17.7      | 10.9 |
|                       | 8                           | 17                         | 7.9                     | 7.9  | 9.4       | 8.2  | 11.1      | 8.3  |
|                       |                             | 33                         | 9.6                     | 9.0  | 11.9      | 9.4  | 14.7      | 9.8  |
|                       |                             | 50                         | 10.3                    | 9.4  | 13.2      | 9.9  | 16.6      | 10.5 |
|                       | 9                           | 17                         | 7.5                     | 7.5  | 8.8       | 7.9  | 10.5      | 8.1  |
|                       |                             | 33                         | 8.9                     | 8.6  | 11.0      | 9.1  | 13.7      | 9.4  |
|                       |                             | 50                         | 9.5                     | 9.0  | 12.2      | 9.6  | 15.5      | 10.0 |

TC : TOTAL HEAT CAPACITY (kW)

SHC : SENSIBLE HEAT COOLING CAPACITY (kW)

# PERFORMANCE DATA COOLING CAPACITIES

MODEL: 40LM060

| AIR QUANTITY<br>(l/s) | ENT CHILLED WATER TEMP (°C) | CHILLED WATER FLOW (L/MIN) | ENT AIR TEMP DB/WB (°C) |      |           |      |           |      |      |
|-----------------------|-----------------------------|----------------------------|-------------------------|------|-----------|------|-----------|------|------|
|                       |                             |                            | 25.0/17.0               |      | 27.0/19.5 |      | 29.0/22.0 |      |      |
|                       |                             |                            | TC                      | SHC  | TC        | SHC  | TC        | SHC  |      |
| 550                   | 5                           | 22                         | 11.0                    | 9.3  | 13.2      | 9.6  | 15.7      | 9.8  |      |
|                       |                             | 44                         | 13.1                    | 10.3 | 16.3      | 10.9 | 20.0      | 11.5 |      |
|                       |                             | 66                         | 14.0                    | 10.8 | 17.7      | 11.5 | 21.7      | 12.3 |      |
|                       | 6                           | 22                         | 10.3                    | 8.9  | 12.4      | 9.3  | 14.9      | 9.5  |      |
|                       |                             | 44                         | 12.2                    | 9.9  | 15.3      | 10.5 | 18.9      | 11.1 |      |
|                       |                             | 66                         | 13.0                    | 10.3 | 16.6      | 11.0 | 20.6      | 11.8 |      |
|                       | 7                           | 22                         | 9.6                     | 8.7  | 11.6      | 8.9  | 14.1      | 9.2  |      |
|                       |                             | 44                         | 11.2                    | 9.5  | 14.3      | 10.0 | 17.8      | 10.6 |      |
|                       |                             | 66                         | 12.0                    | 9.9  | 15.5      | 10.6 | 19.5      | 11.3 |      |
|                       | 8                           | 22                         | 8.9                     | 8.3  | 10.9      | 8.6  | 13.3      | 8.9  |      |
|                       |                             | 44                         | 10.3                    | 9.1  | 13.3      | 9.6  | 16.8      | 10.2 |      |
|                       |                             | 66                         | 11.0                    | 9.4  | 14.4      | 10.1 | 18.4      | 10.8 |      |
|                       | 9                           | 22                         | 8.3                     | 8.0  | 10.1      | 8.3  | 12.5      | 8.5  |      |
|                       |                             | 44                         | 9.5                     | 8.7  | 12.3      | 9.2  | 15.7      | 9.8  |      |
|                       |                             | 66                         | 10.0                    | 9.0  | 13.3      | 9.6  | 17.2      | 10.4 |      |
|                       | 600                         | 5                          | 22                      | 11.4 | 9.8       | 13.6 | 10.1      | 16.2 | 10.3 |
|                       |                             |                            | 44                      | 13.7 | 11.0      | 17.0 | 11.6      | 20.8 | 12.1 |
|                       |                             |                            | 66                      | 14.8 | 11.5      | 18.6 | 12.3      | 22.8 | 13.0 |
| 6                     |                             | 22                         | 10.7                    | 9.5  | 12.8      | 9.8  | 15.4      | 10.0 |      |
|                       |                             | 44                         | 12.8                    | 10.5 | 15.9      | 11.0 | 19.7      | 11.7 |      |
|                       |                             | 66                         | 13.5                    | 10.8 | 17.5      | 11.7 | 21.7      | 12.5 |      |
| 7                     |                             | 22                         | 10.0                    | 9.2  | 12.0      | 9.4  | 14.5      | 9.6  |      |
|                       |                             | 44                         | 11.8                    | 10.1 | 14.9      | 10.7 | 18.6      | 11.2 |      |
|                       |                             | 66                         | 12.7                    | 10.5 | 16.3      | 11.2 | 20.5      | 11.9 |      |
| 8                     |                             | 22                         | 9.3                     | 8.8  | 11.3      | 9.2  | 13.7      | 9.3  |      |
|                       |                             | 44                         | 10.9                    | 9.7  | 13.9      | 10.2 | 17.5      | 10.8 |      |
|                       |                             | 66                         | 11.6                    | 10.0 | 15.2      | 10.8 | 19.3      | 11.5 |      |
| 9                     |                             | 22                         | 8.6                     | 8.4  | 10.5      | 8.8  | 12.8      | 9.0  |      |
|                       |                             | 44                         | 10.0                    | 9.3  | 12.9      | 9.8  | 16.3      | 10.3 |      |
|                       |                             | 66                         | 10.6                    | 9.6  | 14.0      | 10.3 | 18.0      | 11.0 |      |
| 750                   |                             | 5                          | 22                      | 12.5 | 11.4      | 14.8 | 11.6      | 17.4 | 11.7 |
|                       |                             |                            | 44                      | 15.4 | 12.8      | 18.9 | 13.4      | 23.0 | 13.9 |
|                       |                             |                            | 66                      | 16.9 | 13.5      | 21.0 | 14.3      | 25.7 | 15.0 |
|                       | 6                           | 22                         | 11.8                    | 11.0 | 14.0      | 11.2 | 16.6      | 11.4 |      |
|                       |                             | 44                         | 14.3                    | 12.4 | 17.8      | 12.9 | 21.8      | 13.4 |      |
|                       |                             | 66                         | 15.7                    | 13.0 | 19.7      | 13.7 | 24.4      | 14.4 |      |
|                       | 7                           | 22                         | 11.1                    | 10.6 | 13.2      | 10.9 | 15.7      | 11.0 |      |
|                       |                             | 44                         | 13.3                    | 11.9 | 16.7      | 12.4 | 20.5      | 12.9 |      |
|                       |                             | 66                         | 14.4                    | 12.4 | 18.4      | 13.1 | 23.0      | 13.9 |      |
|                       | 8                           | 22                         | 10.4                    | 10.2 | 12.4      | 10.5 | 14.7      | 10.7 |      |
|                       |                             | 44                         | 12.3                    | 11.4 | 15.5      | 11.9 | 19.2      | 12.4 |      |
|                       |                             | 66                         | 13.3                    | 11.9 | 17.1      | 12.6 | 21.6      | 13.3 |      |
|                       | 9                           | 22                         | 9.7                     | 9.7  | 11.5      | 10.2 | 13.8      | 10.4 |      |
|                       |                             | 44                         | 11.4                    | 10.9 | 14.4      | 11.5 | 18.0      | 12.0 |      |
|                       |                             | 66                         | 12.2                    | 11.4 | 15.8      | 12.1 | 20.2      | 12.8 |      |

TC : TOTAL HEAT CAPACITY (kW)

SHC : SENSIBLE HEAT COOLING CAPACITY (kW)

## PERFORMANCE DATA COOLING CAPACITIES

MODEL: 40LM070

| AIR QUANTITY<br>(l/s) | ENT CHILLED WATER TEMP (°C) | CHILLED WATER FLOW (L/MIN) | ENT AIR TEMP DB/WB (°C) |      |           |      |           |      |
|-----------------------|-----------------------------|----------------------------|-------------------------|------|-----------|------|-----------|------|
|                       |                             |                            | 25.0/17.0               |      | 27.0/19.5 |      | 29.0/22.0 |      |
|                       |                             |                            | TC                      | SHC  | TC        | SHC  | TC        | SHC  |
| 650                   | 5                           | 26                         | 12.1                    | 10.4 | 14.7      | 10.7 | 17.6      | 11.0 |
|                       |                             | 52                         | 14.3                    | 11.5 | 17.9      | 12.1 | 22.0      | 12.7 |
|                       |                             | 78                         | 15.3                    | 11.9 | 19.4      | 12.7 | 23.7      | 13.4 |
|                       | 6                           | 26                         | 11.4                    | 10.0 | 13.9      | 10.3 | 16.6      | 10.6 |
|                       |                             | 52                         | 13.4                    | 10.9 | 16.8      | 11.6 | 20.8      | 12.3 |
|                       |                             | 78                         | 14.2                    | 11.4 | 18.2      | 12.2 | 22.5      | 13.0 |
|                       | 7                           | 26                         | 10.6                    | 9.6  | 13.0      | 10.0 | 15.7      | 10.3 |
|                       |                             | 52                         | 12.3                    | 10.5 | 15.7      | 11.2 | 19.6      | 11.7 |
|                       |                             | 78                         | 13.7                    | 11.4 | 17.0      | 11.7 | 21.3      | 12.4 |
|                       | 8                           | 26                         | 9.9                     | 9.2  | 12.1      | 9.6  | 14.8      | 9.9  |
|                       |                             | 52                         | 11.3                    | 10.1 | 14.6      | 10.7 | 18.5      | 11.3 |
|                       |                             | 78                         | 12.0                    | 10.4 | 15.7      | 11.2 | 20.0      | 11.9 |
|                       | 9                           | 26                         | 9.1                     | 8.8  | 11.2      | 9.3  | 13.9      | 9.6  |
|                       |                             | 52                         | 10.3                    | 9.6  | 13.4      | 10.2 | 17.3      | 10.8 |
|                       |                             | 78                         | 10.9                    | 9.9  | 14.6      | 10.7 | 18.8      | 11.4 |
| 800                   | 5                           | 26                         | 13.4                    | 11.9 | 16.1      | 12.2 | 19.1      | 12.5 |
|                       |                             | 52                         | 16.1                    | 13.3 | 20.0      | 13.9 | 24.3      | 14.5 |
|                       |                             | 78                         | 17.3                    | 13.9 | 21.8      | 14.7 | 26.7      | 15.5 |
|                       | 6                           | 26                         | 12.6                    | 11.5 | 15.2      | 11.8 | 18.1      | 12.1 |
|                       |                             | 52                         | 15.0                    | 12.8 | 18.7      | 13.4 | 23.0      | 13.9 |
|                       |                             | 78                         | 16.1                    | 13.3 | 20.5      | 14.2 | 25.3      | 14.9 |
|                       | 7                           | 26                         | 11.8                    | 11.0 | 14.2      | 11.4 | 17.1      | 11.7 |
|                       |                             | 52                         | 13.9                    | 12.2 | 17.4      | 12.9 | 21.7      | 13.5 |
|                       |                             | 78                         | 14.9                    | 12.7 | 19.1      | 13.6 | 23.9      | 14.3 |
|                       | 8                           | 26                         | 11.0                    | 10.6 | 13.2      | 11.0 | 16.0      | 11.3 |
|                       |                             | 52                         | 12.8                    | 11.7 | 16.2      | 12.4 | 20.4      | 13.0 |
|                       |                             | 78                         | 13.6                    | 12.2 | 17.7      | 13.0 | 22.5      | 13.8 |
|                       | 9                           | 26                         | 10.2                    | 10.1 | 12.3      | 10.6 | 15.0      | 10.9 |
|                       |                             | 52                         | 11.8                    | 11.2 | 15.0      | 11.9 | 19.0      | 12.5 |
|                       |                             | 78                         | 12.2                    | 11.6 | 16.3      | 12.4 | 21.0      | 13.2 |
| 1050                  | 5                           | 26                         | 15.0                    | 13.9 | 17.5      | 14.2 | 20.6      | 14.3 |
|                       |                             | 52                         | 18.3                    | 15.8 | 22.3      | 16.3 | 27.0      | 16.9 |
|                       |                             | 78                         | 20.0                    | 19.6 | 24.8      | 17.4 | 30.3      | 18.1 |
|                       | 6                           | 26                         | 14.1                    | 13.4 | 16.5      | 13.8 | 19.5      | 13.9 |
|                       |                             | 52                         | 17.0                    | 15.2 | 20.9      | 15.8 | 25.5      | 16.3 |
|                       |                             | 78                         | 18.5                    | 15.9 | 23.2      | 16.7 | 28.7      | 17.5 |
|                       | 7                           | 26                         | 13.2                    | 12.9 | 14.6      | 13.3 | 18.5      | 13.5 |
|                       |                             | 52                         | 15.9                    | 14.6 | 19.6      | 15.2 | 24.1      | 15.7 |
|                       |                             | 78                         | 17.1                    | 15.3 | 21.6      | 16.1 | 27.0      | 16.8 |
|                       | 8                           | 26                         | 12.4                    | 12.3 | 14.7      | 12.9 | 17.4      | 13.1 |
|                       |                             | 52                         | 14.7                    | 13.9 | 18.3      | 14.6 | 22.6      | 15.2 |
|                       |                             | 78                         | 15.7                    | 14.6 | 20.1      | 15.5 | 25.4      | 16.2 |
|                       | 9                           | 26                         | 11.6                    | 11.6 | 13.7      | 12.4 | 16.3      | 12.7 |
|                       |                             | 52                         | 13.6                    | 13.3 | 16.9      | 14.1 | 21.1      | 14.6 |
|                       |                             | 78                         | 14.5                    | 13.9 | 18.6      | 14.8 | 23.7      | 15.6 |

TC : TOTAL HEAT CAPACITY (kW)

SHC : SENSIBLE HEAT COOLING CAPACITY (kW)



## PERFORMANCE DATA COOLING CAPACITIES

MODEL: 40LM090

| AIR QUANTITY<br>(l/s) | ENT CHILLED WATER TEMP (°C) | CHILLED WATER FLOW (L/MIN) | ENT AIR TEMP DB/WB (°C) |      |           |      |           |      |
|-----------------------|-----------------------------|----------------------------|-------------------------|------|-----------|------|-----------|------|
|                       |                             |                            | 25.0/17.0               |      | 27.0/19.5 |      | 29.0/22.0 |      |
|                       |                             |                            | TC                      | SHC  | TC        | SHC  | TC        | SHC  |
| 550                   | 5                           | 31                         | 13.5                    | 10.6 | 16.7      | 11.2 | 20.4      | 11.7 |
|                       |                             | 63                         | 15.3                    | 11.4 | 19.3      | 12.3 | 23.7      | 13.2 |
|                       |                             | 94                         | 15.9                    | 11.7 | 20.2      | 12.7 | 24.8      | 13.7 |
|                       | 6                           | 31                         | 12.6                    | 10.2 | 15.6      | 10.6 | 19.3      | 11.3 |
|                       |                             | 63                         | 14.1                    | 10.9 | 18.1      | 11.8 | 22.5      | 12.6 |
|                       |                             | 94                         | 14.7                    | 11.2 | 18.9      | 12.1 | 23.6      | 13.1 |
|                       | 7                           | 31                         | 11.6                    | 9.7  | 14.7      | 10.3 | 18.2      | 10.8 |
|                       |                             | 63                         | 13.0                    | 10.4 | 16.9      | 11.2 | 21.3      | 12.1 |
|                       |                             | 94                         | 13.6                    | 10.6 | 17.8      | 11.6 | 22.4      | 12.5 |
|                       | 8                           | 31                         | 10.7                    | 9.3  | 13.7      | 9.8  | 17.1      | 10.4 |
|                       |                             | 63                         | 11.9                    | 9.9  | 15.8      | 10.7 | 20.1      | 11.6 |
|                       |                             | 94                         | 12.4                    | 10.1 | 16.5      | 11.0 | 21.1      | 12.0 |
|                       | 9                           | 31                         | 9.8                     | 8.9  | 12.7      | 9.4  | 16.0      | 9.9  |
|                       |                             | 63                         | 10.8                    | 9.4  | 14.5      | 10.2 | 18.8      | 11.0 |
|                       |                             | 94                         | 11.2                    | 9.5  | 15.3      | 10.5 | 19.9      | 11.4 |
| 750                   | 5                           | 31                         | 15.9                    | 13.1 | 19.4      | 13.6 | 23.3      | 14.1 |
|                       |                             | 63                         | 18.6                    | 14.4 | 23.3      | 15.4 | 28.6      | 16.2 |
|                       |                             | 94                         | 19.7                    | 14.9 | 24.9      | 16.0 | 30.6      | 17.1 |
|                       | 6                           | 31                         | 14.9                    | 12.6 | 18.3      | 13.1 | 22.0      | 13.6 |
|                       |                             | 63                         | 17.3                    | 13.8 | 21.9      | 14.7 | 27.1      | 15.6 |
|                       |                             | 94                         | 18.2                    | 14.2 | 23.4      | 15.4 | 29.0      | 16.4 |
|                       | 7                           | 31                         | 13.8                    | 12.2 | 17.1      | 12.6 | 20.8      | 13.1 |
|                       |                             | 63                         | 15.9                    | 13.2 | 20.4      | 14.1 | 25.6      | 15.0 |
|                       |                             | 94                         | 16.8                    | 13.6 | 21.9      | 14.7 | 27.5      | 15.7 |
|                       | 8                           | 31                         | 12.8                    | 11.7 | 15.9      | 12.2 | 19.5      | 12.6 |
|                       |                             | 63                         | 14.6                    | 12.6 | 19.0      | 13.5 | 24.1      | 14.4 |
|                       |                             | 94                         | 15.4                    | 12.9 | 20.3      | 14.0 | 25.8      | 15.1 |
|                       | 9                           | 31                         | 11.8                    | 11.2 | 14.8      | 11.7 | 18.4      | 12.2 |
|                       |                             | 63                         | 13.3                    | 12.0 | 17.5      | 12.8 | 22.6      | 13.7 |
|                       |                             | 94                         | 13.9                    | 12.3 | 18.7      | 13.3 | 24.2      | 14.4 |
| 1100                  | 5                           | 31                         | 19.0                    | 16.8 | 22.5      | 17.2 | 26.5      | 17.4 |
|                       |                             | 63                         | 22.9                    | 18.8 | 28.2      | 19.7 | 34.5      | 20.5 |
|                       |                             | 94                         | 24.7                    | 19.7 | 31.0      | 20.9 | 37.9      | 21.9 |
|                       | 6                           | 31                         | 17.8                    | 16.2 | 21.2      | 16.6 | 25.2      | 16.9 |
|                       |                             | 63                         | 21.3                    | 18.1 | 26.5      | 18.9 | 32.6      | 19.8 |
|                       |                             | 94                         | 22.9                    | 18.9 | 29.1      | 20.0 | 35.9      | 21.1 |
|                       | 7                           | 31                         | 16.7                    | 15.6 | 19.9      | 16.1 | 23.8      | 16.4 |
|                       |                             | 63                         | 19.8                    | 17.4 | 24.8      | 18.2 | 30.8      | 19.1 |
|                       |                             | 94                         | 21.2                    | 18.1 | 29.1      | 20.0 | 33.9      | 20.3 |
|                       | 8                           | 31                         | 15.6                    | 15.0 | 18.7      | 15.5 | 22.4      | 15.8 |
|                       |                             | 63                         | 18.2                    | 16.6 | 23.1      | 17.5 | 28.9      | 18.3 |
|                       |                             | 94                         | 19.4                    | 17.3 | 25.1      | 18.4 | 31.8      | 19.4 |
|                       | 9                           | 31                         | 14.5                    | 14.4 | 17.4      | 15.0 | 21.0      | 15.3 |
|                       |                             | 63                         | 16.7                    | 15.9 | 21.4      | 16.8 | 26.9      | 17.6 |
|                       |                             | 94                         | 17.8                    | 16.5 | 23.2      | 17.6 | 29.8      | 18.7 |

TC : TOTAL HEAT CAPACITY (kW)

SHC : SENSIBLE HEAT COOLING CAPACITY (kW)