Job Name:	
Schedule Reference:	Date:

#### **OVERVIEW OF M-NET MAINTENANCE TOOL**

- The M-NET Maintenance Tool Software and the CMS-MNG Maintenance Tool converter are CITY MULTI<sup>®</sup> system operations monitoring tools created to aid technicians in system maintenance tasks by monitoring and controlling various CITY MULTI system operational functions, status and settings
- Monitoring can be accomplished by connecting a PC (with the M-NET maintenance tool software installed) at any point in the CITY MULTI M-NET system bus using the CMS-MNG Maintenance Tool converter
- M-NET data monitored by the Maintenance Tool Software can be recorded and saved for the purposes of trending and system analysis off site
- Easy to use
- Displays all connected system components and the respective addresses
- Allows remote control of all connected indoor units
- Displays the status of and allows control of all outdoor unit, BC Controller, and indoor unit LEVs
- Display the temperature readings as detected by all thermistors
- Display malfunction logs for each connected system component
- Display system pressures as detected by all system pressure sensors



# GENERAL MAINTENANCE TOOL CONVERTER (CMS-MNG) SPECIFICATIONS

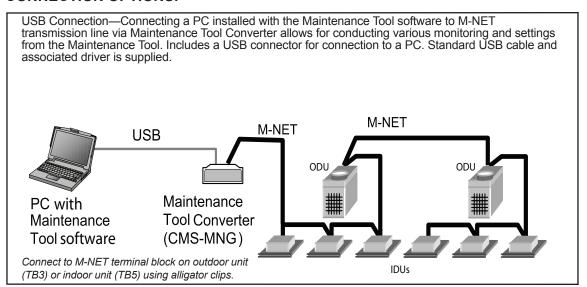
- Maintenance Tool Software must be installed on a PC in order for CMS-MNG converter to monitor system
- Connects PC with Maintenance Tool Software to the M-NET communication bus for equipment monitoring

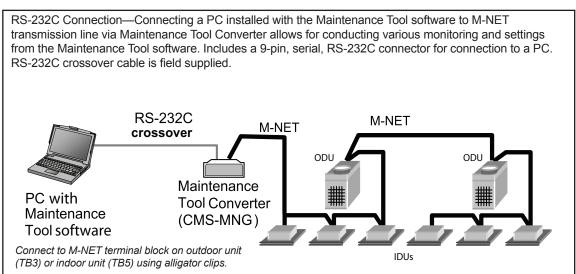
## RECOMMENDED AND MINIMUM OPERATING ENVIRONMENTS FOR CMS-MNG AND MAINTENANCE TOOL SOFTWARE

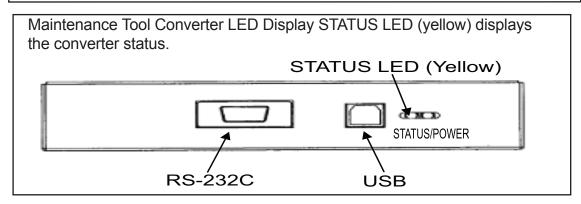
System	Windows® 2000/XP Pro		Windows Vista® Business / Win7		
Requirements	Recommended	Minimum	Recommended	Minimum	
	Operating	Operating	Operating	_Operating	
	Environment	Environment	Environment	Environment	
Operating System	Windows 2000 (Service Pack 4) or		Windows Vista Business		
	XP Pro (Service Pack 2) English version recommended		English version recommended		
СРИ	2GHz Pentium <sup>®</sup> 4 desktop or 1.6GHz Pentium <sup>®</sup> M notebook	1GHz Celeron <sup>®</sup> desktop or 1GHz Celeron <sup>®</sup> M notebook	1.86GHz Core™ 2 Duo desktop or notebook	2GHz Pentium 4 desktop or 1.6GHz Pentium M notebook	
RAM	1GB or more	Minimum 512MB	2GB or more	Minimum 1GB	
Hard Drive Disk Space	Available 120GB (SATA compatible 7,200 rpm)	Available 40GB (Ultra ATA compatible 5,400 rpm)	Available 120GB (SATA compatible 7,200 rpm)	Available 40GB (Ultra ATA compatible 5,400 rpm)	
LCD	1,024 x 768 XGA resolution				
Serial Port	One RS-232C Port (Use when connecting via Maintenance Tool converter CMS-MNG)				
USB Port	One USB Port (Use when connecting via Maintenance Tool converter CMS-MNG)				
LAN Port	One LAN port (10BASE-T or faster)	One LAN port (10BASE-T)	One LAN port (10BASE-T or faster)	One LAN port (10BASE-T)	
Optical Drive	One CD-ROM/CD- RW or DVD drive (Use when installing the Maintenance Tool software to a PC)	One CD-ROM drive (Use when installing the Maintenance Tool software to a PC)	One CD-ROM/CD- RW or DVD drive (Use when installing the Maintenance Tool software to a PC)	One CD-ROM drive (Use when installing the Maintenance Tool software to a PC)	
Pointing Device	Mouse, track ball, or any other pointing device				

### Model: CMS-MNG

#### **CONNECTION OPTIONS:**







- Live Better