



## MCCPex Piping System

# Easy, economical, reliable and revolutionary

The MCCPex Piping system revolutionizes installation of pipes for waterborne heating in buses. Quick and easy to connect, flexible pipes, lower price and reduced weight compared to a traditional piping. MCCPex is a proven system for water transport in buses and has been used for more than a decade. So let us introduce you to the modern way to transport water in large vehicles!

### Features

- Pipe system using state-of-the-art plastics
- Designed for minibuses, buses and coaches with waterborne heating systems
- Savings ~20% cost compared to traditional pipe systems
- Approximately 50% installation time compared with traditional pipe systems
- Low weight (~30% of copper)
- Flexible pipes (easy to bend)
- Non-corrosive
- High insulation capacity



# MCCPex Piping System

## The modern way for water transport

### Quick and easy mounting



1. Thread the support ring over the PEX pipe



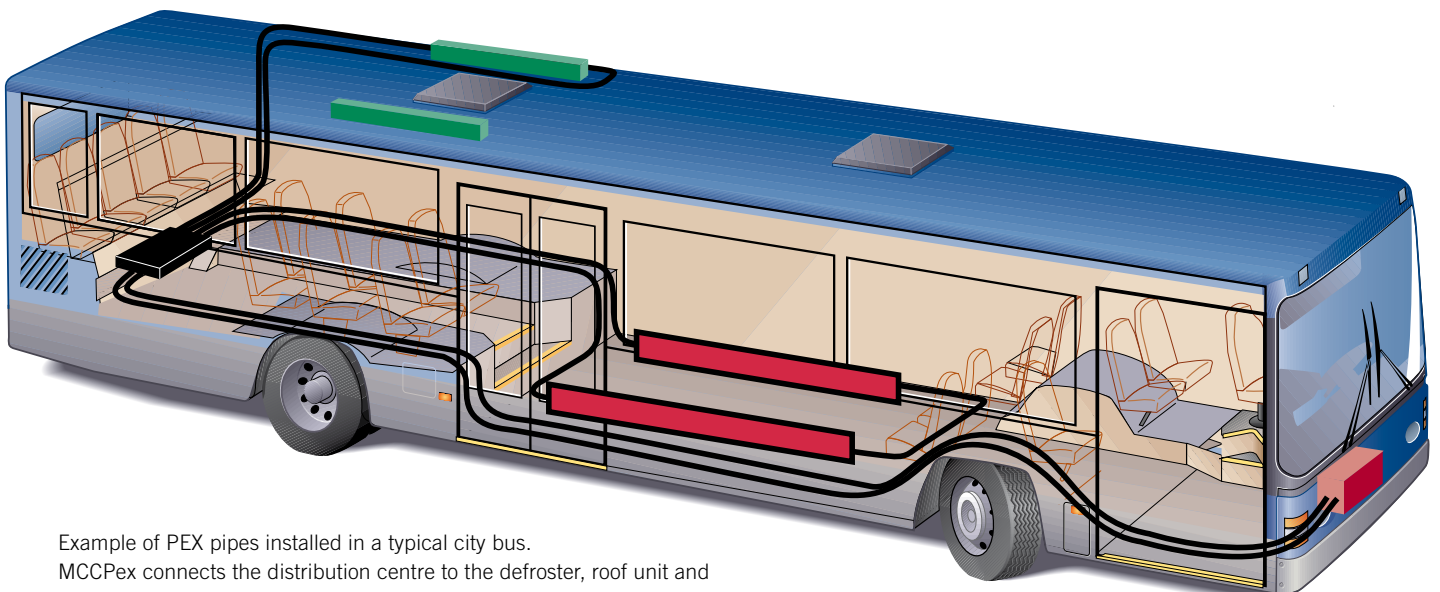
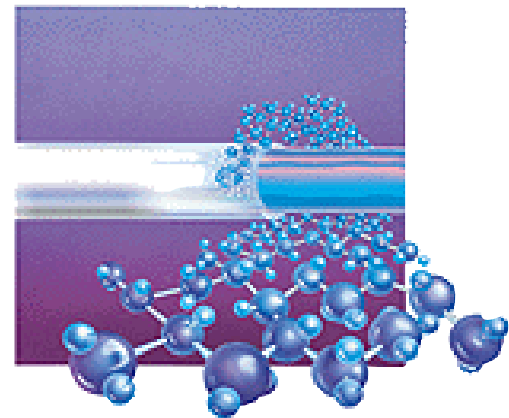
2. Expand the PEX pipe with the hydraulic expanding tool



3. Insert the coupling. The MCCPex pipe will shrink in a few seconds and make a tight, safe coupling. After one hour the PEX pipe is ready for the pressure test!

### About the material

The MCCPex is made of PEX plastics, which stands for crosslinked (X) polyethylene (PE). This means it is produced in a manufacturing process where long polyethylene chains are crosslinked with peroxide, improving the high temperature properties of the material and provides high cracking resistance and long-term creep strength.



Example of PEX pipes installed in a typical city bus. MCCPex connects the distribution centre to the defroster, roof unit and convectors. Note that the MCCPex pipes can be bent, which means that a large number of couplings and elbows can be eliminated. MCCPex can of course be used in all sizes and types of vehicles, where you need to transport water.

## Advantages

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The most important difference when using PEX instead of traditional piping, is that the installation time decreases to approximately 50%. How is that possible? There are two main reasons: The first is that the pipes are flexible and easy to install without a large number of elbows and couplings. The second is the extremely short time it takes to make a coupling. But these are not the only advantages. Here are some more:

- Approximately 20% lower overall cost, due to lower labor cost
- Low weight, you can save from 40-80 kg in a 12 m bus
- Simple mounting tools, no welding/brazing in bus
- Flexible pipes
- Good insulation, no extra insulation needed inside the bus
- Non-corrosive material
- Low flow resistance

## Economy aspect

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In the end, it's the overall cost that counts. Just take a look at the production cost and compare it. Furthermore the PEX price does not fluctuate as do copper prices.

## Standard MCCPex range

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Available dimensions	Ø 16, 20, 25, 32, 40 mm
Standard lengths	5, 6 and 50 m
Connection variants	Straight, elbow, T-pipe

## Climate panel with knobs and buttons

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When you think PEX, you have to think how cables are installed. MCC has a long experience with the PEX pipes and provide service and support all the way. These are the steps when changing to PEX:

- Prestudy
- Prototype installation
- Evaluation
- Training of installation staff (1-2 days)
- Installation instructions
- Support and after sales



## Customized MCCPex

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MCCPex can be ordered with customized bends and couplings. MCC will bend and insert couplings according to the customer's drawings.



Customized MCCPex



## Mobile Climate Control

**Europe:** Tel: +46 176 207 800

**North America:** Tel: +1-905-482-2750

[www.mcc-hvac.com](http://www.mcc-hvac.com)