

PIPEX

Piping & floor heating systems

Since
1999



Made in Iran



Under license
of Germany



Swiss
Technology



Pipes

5-layered Pipes

LASERPEX

Latest generation of five-layered pipes with Laser technology for the first time in the Middle east



Double inner diameter thickness



Higher pressure class



Higher bending radius



O-ringless & higher durability

NEW

+95°C

16~32 mm



PEX/Al/PEX

3-layered Oxygen barrier pipe



Suitable for use in floor heating and closed heating systems



+100°C



16~20 mm

PEX/Ad/EVOH

Pex a,b Pipes

Suitable for piping & floor heating systems

- With thermal memory*
- Anti-freezing (for Pn20 models)
- High thermal and pressure standing range

HT



ECO



*Thermal memory: Deformed PEX pipes get back to its original shape, once heated up. Thanks to its outstanding properties.

Fittings

CF and CCF fittings

- No need for special and expensive tools
- Reusable in case of erroneous implementation
- Fittings not losing the sealed state due to freezing
- More reliable sealing due to fully pressed pipe-to-fitting



Press fittings

- Cost-effective
- Rapidly implemented
- Pressing tool required



Push-Fit fittings

- Highly cost-effective
- No need for special and expensive tools
- The only sealing method without pressure lost at site of the pipe fitting



Riser system

NEW

- Highly cost-effective
- Reusable in case of erroneous implementation
- Reduced volume and increased variability of fittings
- Installable without any need for expensive pressing tools
- Option to change in fittings combination prior to pressure test
- Option to combine and manufacture fittings as per the implementation requirements

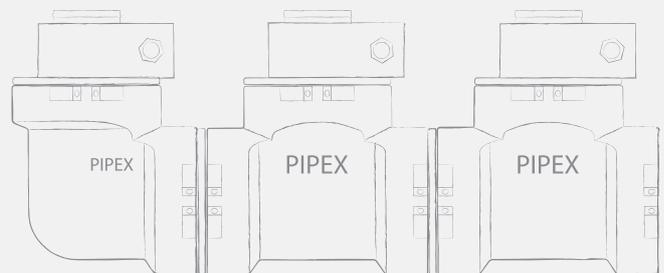


Power house manifold: Making standard powerhouse manifold within less than a minute

Powerhouse manifold may easily be made by taking benefit from PIPEX riser fittings without any need for cutting and welding works and within the shortest possible of time.

The advantages of PIPEX powerhouse manifold include:

- Beautiful, durable and standard
- The ability to connect metal and PIPEX pipes simultaneously

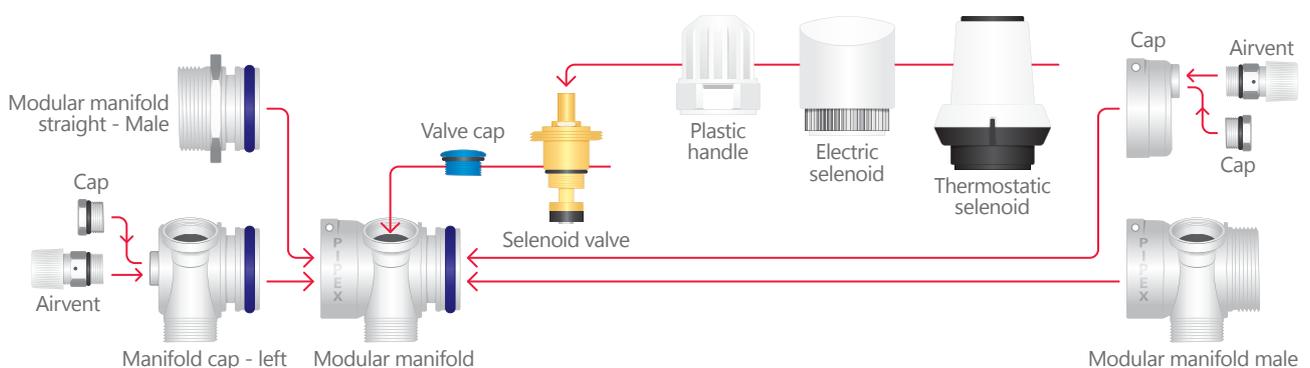


Modular manifolds

NEW



- Rapidly implementable
- With output nipple and head screw
- 10bars long-term pressure tolerance
- Sealing without any need for Teflon and hemp
- Manifold may rotate around the axis without being unsealed
- Making manifold with customized number of outputs (1~ infinity)

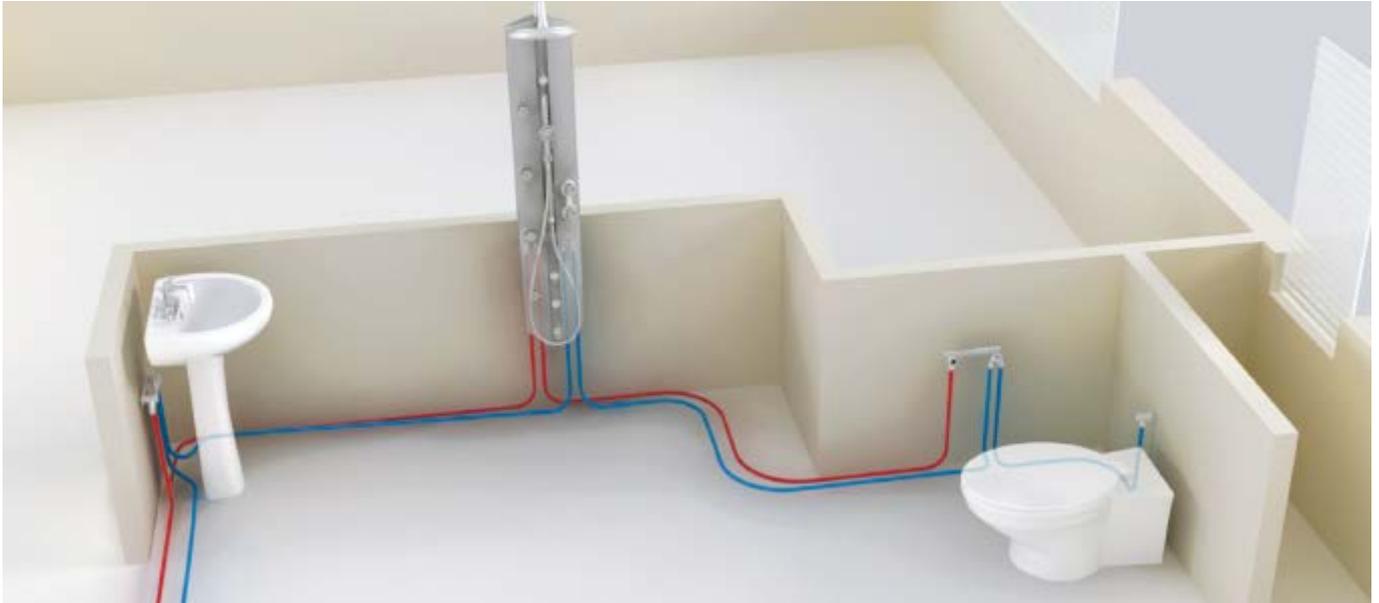


Piping systems

PCS Manifold Piping System

Replacing the pipes effortlessly and without any construction

Manifold piping system has been recognized all across the Globe as the most reliable piping method. This system is implemented through placement of water supply and heating manifolds inside the central box of a residential unit, which is mainly located in vicinity of the main riser. As the pioneer in the Iranian Piping industry, PIPEX has offered this piping system for the first time in Iran.



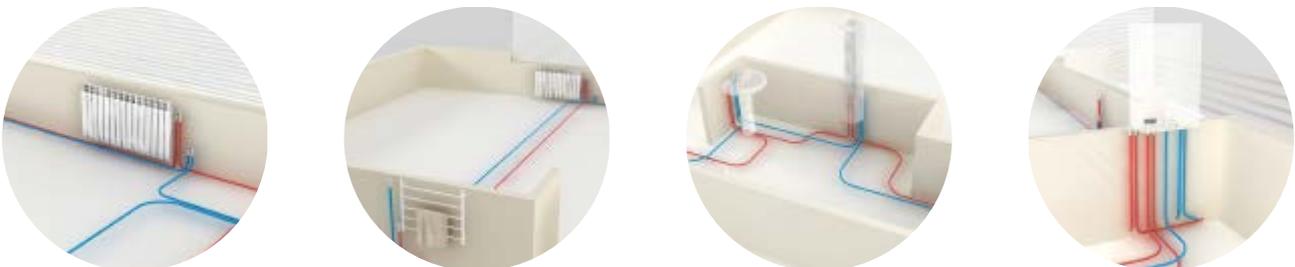
- Cost-effectiveness
- Minimizing the pressure loss at high consumption simultaneous factor
- Increased piping system's factor of safety due to not using the fitting in the floor

PCS4 Method

NEW

Highly cost-effective, solution suggested by PIPEX for developers

PIPEX's PCS4 manifold piping system is a new innovative method fulfilled through making arrangements between designing, engineering and producing the required items.



Enjoying minimum usage of fittings and maximum factor of safety, this piping system is the most cost-effective method to implement piping system. Also, for more arrangements in PCS4 system design, all the special fittings for this method have been designed and produced in PIPEX. This method may merely be implemented in those buildings using package and/or water heater systems.

Floor heating system

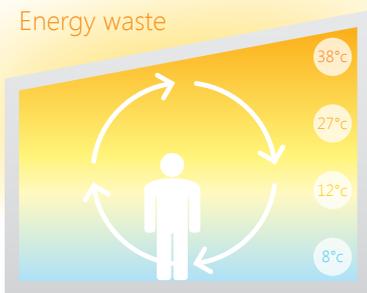
Floor heating system is a new technology which has had significant growth during the recent decades. Today, floor heating system is preferred all over the world to other heating systems such as radiator and/or fan coil in residential houses, factories and industrial steel structures.



- No motion and dusting
- No feeling of warm air motion
- Highly comfortable and relaxing
- Up to 50% saving in energy consumption costs
- Fixed temperature up to 2 meters height from surface
- Harmonious heat distribution throughout the building area

Motion of the invisible particles in the air impairs human's respiration system. Comparing to radiator and fan coil, in floor heating system this phenomenon occurs quite less. Meanwhile, in floor heating system there are no humid points in the wall for growth of fungi and bacteria.

Radiator system



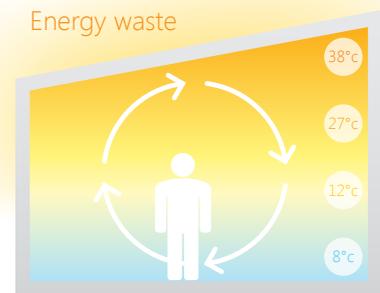
Unsuitable state

Floorheating system



Suitable and ideal state

Fancoil system



Unsuitable state

A room with PIPEX floor heating system enjoys more space in comparison to the same room with radiator/fancoil, and in order to design interior decoration and architecture, it provides us a better space. Additionally, using PIPEX floor heating system causes that the particles have significantly less motions in the airs, which prevents the walls from being blackened gradually.

Floor Heating System Applications



Schools & Universities



Commercial & Malls



Snow melting



Factories



Residential Areas



Greenhouse



Swimming Pools



Stadiums Grass



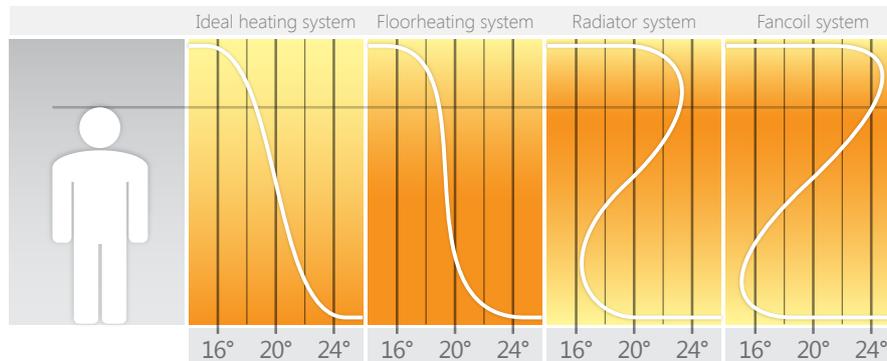
Mosques



Hotels & Restaurants

Ideal and Quite Cost-effective

Ideal heating is a state in which the hottest point on the floor is the ideal temperature in the middle of the space, and the low temperature and cool air is in the height and in vicinity of human's face/ generally speaking, warm foot sole and cool face is the best heating state. Thus, in the following chart the different types of heating systems have been compared with the ideal heating curve.



According to the above chart, merely by taking benefit from the floor heating system the ideal heating state may be approached.

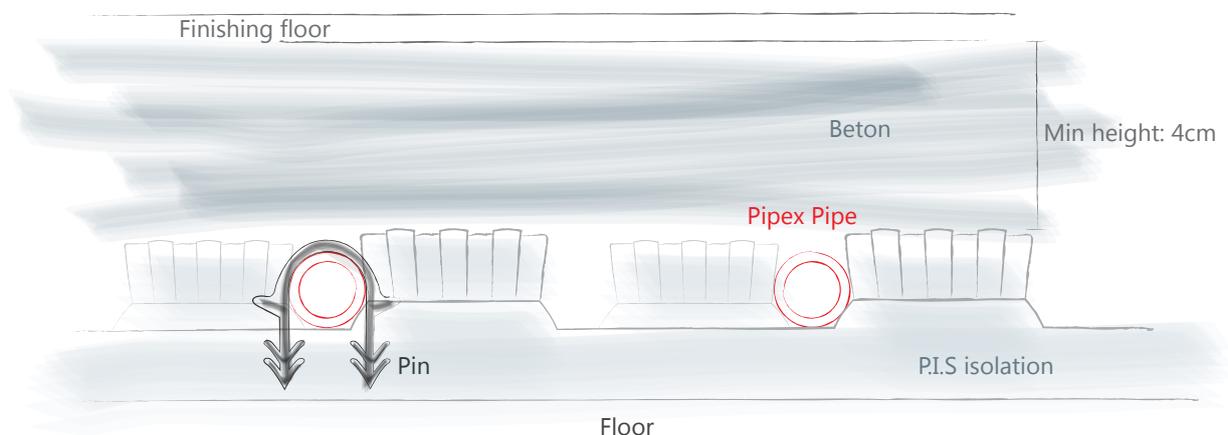
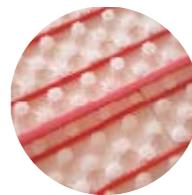
Comparing to other heating systems, floor heating system may achieve a 50% saving in energy consumption. The reasons of such saving include:

- Low heat exchanges between floor and cold walls
- Quite big emission area (equal to the heated area)
- Low temperature of water circulating in the floor heating system (35~50°C)

PIS: Special floor heating insulator

PIS

- Specialized for 16 and 20mm Pipes
- Best insulator for floor heating system
- Fastest, most precise and most cost-effective method





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