

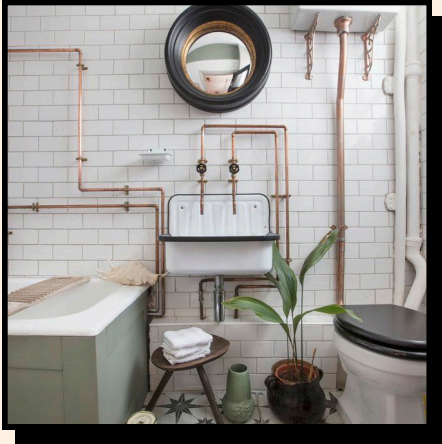


# A Quick Guide to Plumbing Works



## PLUMBING SYSTEMS

Plumbing plays a pivotal role in renovations as it ensures the reliable and efficient distribution of water for essential activities like cooking, bathing, and maintaining hygiene standards. There are two types of plumbing systems that are commonly found in Singapore homes - Concealed plumbing and Exposed plumbing.

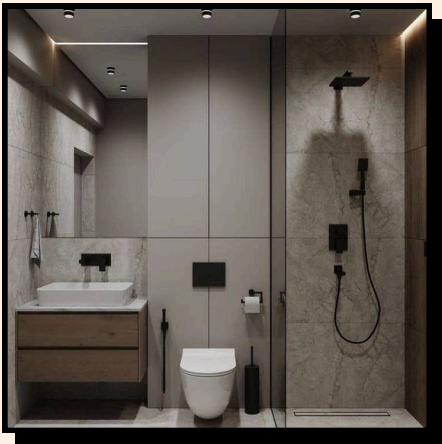


### EXPOSED PLUMBING

In exposed plumbing, the pipes and its related components are intentionally left visible and not concealed behind walls.

Maintenance for these pipes are generally easier as the plumber can easily access the exposed pipings. As the pipes are left exposed, the cost to install this plumbing system is also much more affordable compared to concealed plumbing.

Commonly found in: Resale HDB Units



### CONCEALED PLUMBING

Concealed plumbing refers to the installation of plumbing systems during construction, hidden from sight behind walls.

To access the systems for repair or maintenance, the whole wall or a specific area will need to be hacked.

Commonly found in: BTO Units, Condominiums and Landed



HDB doesn't allow for concealed pipings and hence, the default system is exposed plumbing, unless it's a BTO unit which originally comes with concealed pipings.



## FIXTURES

Various common bathroom fixtures include sinks, toilet bowls, shower sets, and heaters, each available in diverse types, enabling you to choose according to your lifestyle, aesthetic preferences, or budget constraints.

### TOILET BOWLS



#### FLOOR MOUNT

This traditional toilet fixture is directly installed on the bathroom floor, with both the toilet bowl and tank supported by the floor, and the plumbing connections are usually visible. Floor-mount toilet bowls are a prevalent and conventional style of toilet often found in bathrooms.

**Key Features:** Stable, and easier to maintain and repair

**Estimated Cost:** ~\$100 - \$2000 (Varies based on design and quality)



#### WALL HUNG

This type of toilet fixture is mounted directly onto the bathroom wall instead of being installed on the floor. Its tank is concealed within the wall or in a special frame, which is installed before the constructing the wall that will conceal it.

**Key Features:** Space Saving and easy to clean underneath

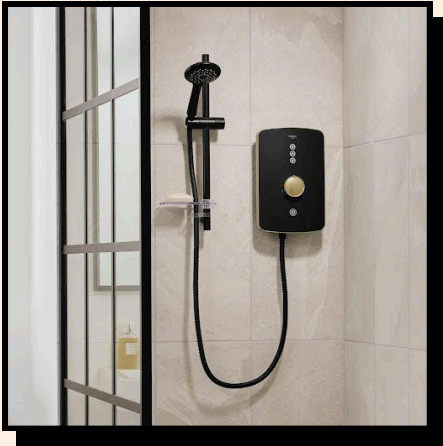
**Estimated Cost:** ~\$300 - \$3000 (Varies based on design and quality)



If you prefer to install a wall-hung toilet bowl, you'll also need to purchase the tank, which will be concealed behind a wall.



## HEATERS



### INSTANT HEATER

An instant heater is a water heating system that heats water on demand as it passes through the unit, delivering hot water instantly.

**Key Features:** Instant hot water and space saving

**Estimated Cost:**  $\geq \$100$



### STORAGE HEATER

A storage heater stores thermal energy and gradually releases it throughout the day. It typically consists of high-density material that absorbs and retains heat, providing a cost-effective heating solution.

**Key Features:** Energy-efficient and environmentally friendly as it only charges during off-peak hours

**Estimated Cost:**  $\geq \$240$



### GAS HEATER

A gas heater is a device that uses natural gases or liquefied petroleum gas (LPG) as a fuel source to produce heat. These heaters are commonly used in residential homes for water heating.

**Key Features:** Has low carbon footprint and are powerful as they convert most of their energy to heat

**Estimated Cost:**  $\sim \$180 - \$1800$  (Varies based on quality)



Gas pipes and heaters will need to be installed by City Gas! You can also purchase gas heaters directly from them.

