

## **Water Cooler Factory**

Usha International Ltd. Faridabad - Refrigeration Division - is currently manufacturing various models of storage & pressure type drinking Water Coolers.

To grow the business, the water cooler facility embarked on a number of technological enhancements:

- The introduction of PUF-insulated water tanks. This feature significantly improves cooling efficiency, and also provides for a sleeker look.
- Fitment of Saginomia thermostats for greater reliability and a longer life.
- Self-lubricating fan motor technology from GE for the high-capacity 150150 model.

Various facilities available:

1. Press Shop - The press shop has following equipments:

- a. Power Presses
- b. Break Presses
- c. Sharing Machine
- d. Nibbling Machine
- e. Spot Welding Machine
- f. Electric Welding Machine

2. Paint Shop

- a. Pre-treatment of Panels: The Paint shop has 10 tank process for Pre-treatment of zinc coated panels. The heating of tanks is done by thermic fluid which is heated by a diesel fired boiler.
- b. Paint Shop: The epoxy based powder coating on Pre-treated panels is done on conveyerised powder paint spray booths & are baked in conveyerised oven .fired by diesel fired burners

3. Assembly - The assembly line consist of following stages:

- a. Panel Assembly
- b. PUF injection
- c. Compressor & Condenser Brazing
- d. Leak testing
- e. Evacuation
- f. Gas Charging
- g. Performance Testing
- h. Packing

4. Type Testing - The type test lab is capable of testing & designing of water coolers as per IS:1475-2001 (Part-1)

All stages of Production are well documented in the manufacturing table & all the processes have been displayed in the work instructions at each stage.

All the major models have BIS marking.

ISO certification was obtained in April '06 for ISO 9001 : 2000 from DNV.