



LS-MPK-PH

Pump House Structure Kit

This kit produces a small but highly detailed kit of a prototype structure found all across the country. Pump houses (stations) would maintain pressure in municipal water supplies or extract ground water for injection into the water supply.

Preparation

Take a moment to familiarize yourself with the parts. Assembly is fairly simple and straightforward. Many of the major parts are pre-colored allowing assembly and weathering. Detail parts do require paint and application of paper details.

- Foundation – weather the floor to represent bare concrete stained by years of traffic. There is a hole in the bottom-center of the foundation that can be used to attach the structure to a base plate, allowing it to be later removed from the plate if necessary.
- Roof Support Frame - no paint needed - used only to support a removable roof/wall structure
- Wall Panels - these are pre-colored brick and mortar, eliminating a tedious step required by other brick face models. Some light gray wash can apply a layer of age, and random streaking of darker gray can create the appearance of different shades of brick. The interior was usually finished in 2-tone, often gray lowers and light, creamy yellow or green uppers.



Note that there are two panel widths - the 2 panels with the pairs of windows are wider and installed on the sides, the panel with the door and the blank panel are the front and back walls. The narrow panels should align with the edge of the side panels when gluing.

- Roof – the top can be painted to represent a tar-paper roof. An interesting detail would be to apply a covering of 120-grit sandpaper to represent a tar & gravel roofing material application.
- Windows & Doors – These parts are pre-colored and should only receive a light weathering. Pay attention to the doors! The one with the knob on the RIGHT side is the outside!
- Details – over a dozen parts are included to customize your interior. Paint and place as you see fit. The office furniture can be left gray. The phone should be black, the work table and coat rack finished as wood.

Assembly

- Paint the parts as suggested. Any plastic-compatible paint can be used. Avoid getting paint on surfaces that will be glued!
- Glue parts with a medium-viscosity plastic cement such as Model Master Liquid Cement. Remove paint from any mating surfaces before gluing.

Windows & Doors

The windows are a snug fit into the openings. Insert from the inside by aligning one side and snap the opposite side in. While pressing gently on the center of the window, apply a drop of thin solvent cement to opposite corners of the window. Maintain slight pressure on the window until the glue sets - about 15-seconds. Repeat for the remaining 4 window locations.

Install the doors on the inside and outside of the front wall. These are mirror-opposites! The door with the knob on the RIGHT side is the exterior door. The doors should be snug to the TOP of the opening.

Foundation & Walls

Start by gluing the front wall to the foundation, keeping the walls aligned to the edges of the foundation. Allow the glue to cure before proceeding. Once the front wall is secure, apply glue to the foundation side and the outer edge of the front wall. Align the side wall to the bottom of the foundation and the front edge of the front wall and clamp for several minutes, then repeat with the opposite side. Reinstall the clamps, ensuring that all edges align and allow time for the glue to cure.

Once the 3 walls are secure, slide the roof support brace between the 3 walls. You might need to slightly sand the edges to get a snug but not overly tight fit. The support brace should be level side to side and front to back. The bottom of the brace should align with the bottom of the exterior wall's upper cement panel, or about 13mm down from the top edge of the wall cornice. Apply liquid cement to the 3 sides where the wall and support brace meet and clamp until the bond cures. The roof panel should fit on top of the support brace - again it may need some light sanding to fit. Apply the same fitment to the rear wall - it should slip out easily. Sand at a slight inward angle to minimize any gap where the side and rear walls meet.

Removable Wall/Roof

Place a piece of masking tape over the open end of the roof support brace and a small piece over the brace where it meets the front wall. Apply another piece of tape on the rear of the foundation. The extra pieces of tape keep the roof level and wall perpendicular. Set the roof panel in place (solid side up) and make sure it can slide up/out without excess pressure. Sand both sides if necessary until you get a smooth fit. Apply a bead of glue across the back edge of the roof, keeping about ¼" away from the edges. Install the rear wall, pressing it into the bead of glue and aligning the top edge with the top of the side walls - keep downward pressure on the roof. Set aside until the bond cures, then gently slide the wall up and out.

Interior

The interior layout is completely up to your discretion. The boiler for heating is generally in the back corner and the radiators centered on each side wall. Cut the control panel from the last page and glue it to the control panel assembly with Tacky Glue. If the control panel is set at the rear wall, the pumps should be placed about ¾" from the back wall. If the control panel is placed in front of the pumps, the pumps should be about ⅜" from the back wall. These parts can be secured with plastic cement or tacky glue.

Assemble the drawer into the file cabinet. Place a bit of folded paper in the drawer and secure it with Tacky Glue. Brush the edge with tan paint to stain it like a manila folder. Place the phone and coffee mug on the desk, optionally add a stack of papers, then secure the filing cabinet and desk in place. Cut the pinup calendar from the back page and glue it to the wall near the desk. The clock is usually placed over the door.

The swivel chair is usually black or dark brown. Glue the base to the seat in the hole in the bottom of the seat, then glue the chair near the desk. Glue the two halves of the coat rack together and then place it near the door.

The work table and tool box can be assembled and positioned next. Papers and some scraps of material can complete the scene, along with a box of parts under the table.

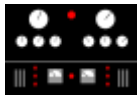
Interior views looking front (left) and rear (right) showing a possible placement of details:



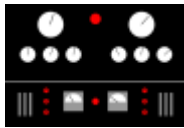
Images

The following images can be cut and installed into your model. Select the size appropriate for your model.

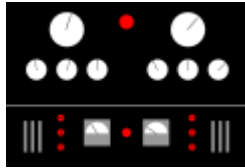
HO Scale



S Scale



O Scale



The sign can be placed above the front door. The control panel is folded and glued to the panel unit, and the pinup calendar can be hung on the wall by the desk or work bench.