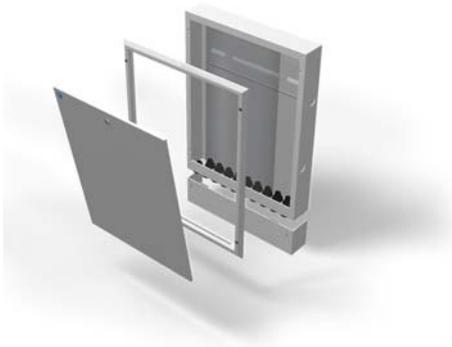


LK Shunt Cabinet WP

Design

The LK Shunt Cabinet WP is designed to provide both secure and waterproof housing for LK Underfloor Heating Manifold VKF-i and LK Manifold Shunt CS. The cabinet is manufactured of 1 mm powder coated steel plate. NOTE! LK Manifold Shunt CS can only be assembled on the right hand side of the cabinet.

The LK Shunt Cabinet WP can be installed in stud walls with a minimum stud-frame 120 mm; alternatively it can be mounted on an existing wall by using LK Base [which conceals the pipe installation between the cabinet and floor]. The cabinet has a rigid base; pipe entry-holes are sealed with rubber gaskets, so that any leaks are drained via the optional inspection point. The back of the cabinet is fitted with four M8 nuts & bolts to aid installations where walls will be built after under floor heating has been installed; for more information see "Installation using LK Cabinet Stand".



LK Shunt Cabinet WP assembled with LK Base.



The cabinet is supplied with pre-assembled door and frame, pipe gasket seals, spray shields and assembly instruction. The cabinet door is fitted as standard with a screwdriver latch; key-locks are available as accessories.



LK Shunt Cabinet WP with LK Manifold Shunt CS and LK Manifold VKF-i.

INSTALLATION IN STUD WALL / ON EXISTING WALL

Installation in stud wall

For installation in stud-walls a minimum stud-frame thickness of 120 mm is required. Where the manifold is already installed (mandatory pressure testing is aided with the manifold mounted), the manifold will need to be isolated and disconnected from the under floor pipes. **NOTE:** ensure that the pipe loops are clearly labeled before dismantling and remove all couplings/fittings from the under floor heating pipes. Take care when mounting the manifold cabinet over the under floor heating pipes and ensure the cabinet is located by wall studs for secure fixing. The cabinet must be fixed using suitable screws in to the wall studs. All the holes in the cabinet base should be fitted with the rubber seals included in the kit. Adjust the size of rubber seals according to the pipe dimension by trimming with a knife, see illustration below. Insert the rubber seal in the leak detection socket. Then connect LK Conduit (dim 25 mm) to the rubber sleeve and fix the conduit to lead to a wet area or drain. The maximum recommended length for the conduit is 5 metres.

Slide one of the manifold brackets into the slot on the mounting board. Push the manifold sideways into the other slot on the mounting board. **NOTE:** if a By-Pass is required the following alternative is required: dismantle the bracket on the manifold, next install the shunt in the appropriate place. Also note that in all cases the pump must be unscrewed and re-positioned so that the pumps cable faces the inside of the cabinet door, enabling the pump to fit inside the cabinet.



Drill a hole (dim 19 mm) in the appropriate place in the cabinet for cables. Mount the cable grommet seals included in the kit. Complete installation of the plaster-board wall (normally 13 mm gypsum). Make sure that the plaster-board does not end sit flush with the exterior of the cabinet; the cabinet's frame should "sit" on the plaster-board. (See the image below).



Place the spray shields included in the kit in front of the manifold. The spray shields divert possible leakage to the drain at the bottom of the cabinet. Next, the cabinet's frame should be installed with the cabinet door. Finally, install the screw covers included in the kit to conceal the heads of the screws on the front of the cabinet.

Installation on existing wall

Follow instructions as above in "Installation in stud wall". Attach the back of the cabinet to the wall using appropriate screws/rawlplugs. Measure LK Base and mark off a line for the base of the Cabinet. LK Base conceals the pipes entering the floor; see more under "Article data".

Installation using LK Cabinet Stand

The back of the cabinet is fitted with four fasteners (M8 bolts) than can be used to mount the cabinet before the concrete slab has set. LK Cabinet Stand can be used as installation aid, see assembly instruction below.

Screw in the four M8 bolts into the welded nuts from the inside of the cabinet. Screw on the pipe clamps on the out sticking bolts. Slip the round bars into the clamps and thread the conduit sleeve onto the vertical bars. The Sleeve pipes prevent the bars being set in the concrete, allowing re-use of the stand. Drive the round bars down through the insulation and down into the sand until it feels steady. Lift up the cabinet to an appropriate height and tighten the clamps.

Tape the sleeves to the legs of the stand to prevent them from floating up during concrete pouring.

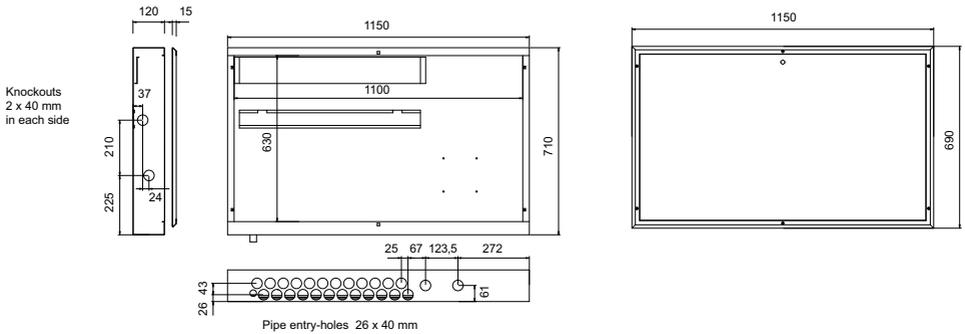
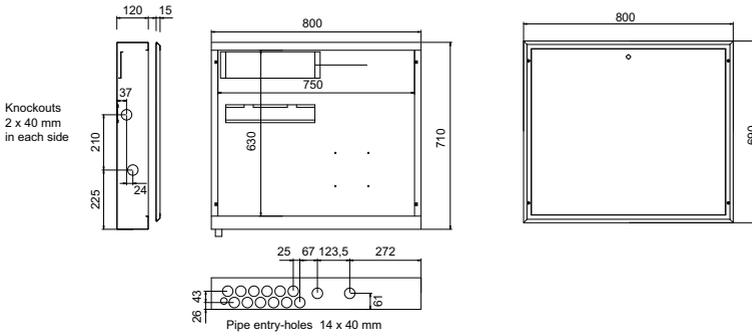


Close up on attachment to cabinet.



LK Cabinet Stand with pipe clips.

Technical drawing



Article data

Name	Article nr.	Notes
LK Shunt Cabinet VT 800	241 89 39	For VKF-i 2-5 & LK Manifold Shunt CS
LK Shunt Cabinet VT 1150	241 89 42	For VKF-i 6-12 & LK Manifold Shunt CS
LK Hatch WP 800	241 88 44	Spare part
LK Hatch WP 1150	241 89 42	Spare part
LK Base WP 800-120	241 89 41	Accessory for on-wall mounting
LK Base WP 1150-120	241 89 40	Accessory for on-wall mounting
LK Lock with key	000 27 85	Accessory
LK Pipe through-hole	187 44 84	Spare part
LK Cabinet Stand	241 88 94	Accessory