

Floor Drainage Cover with Removable Mechanical Seal Device

Abstract

This patent covers a floor drainage cover 103 with a turn and secure grating drain plate 104 and a removable mechanical sealing device 302. This floor drainage cover creates a
5 complete block barrier between the drainage and the top surrounding atmosphere. This is achieved by a simple mechanical seal device which blocks the fluid transmission between the top and bottom of the trap. The insects in the drain will also be blocked and prevented from crawling or flying in or out from the underfloor drain pipe. Next is the floor drainage cover
10 have a complete ring flange that creates a full seal when the removable mechanical seal device is placed in it. This floor trap consists of 4 parts, the floor drainage cover 103 securing all the components and affixing to the ground, a turn and locked grating drain plate 104. The floor trap drainage cover 103 has an opening to allow removable mechanical seal device 302 to be placed onto it. This removable mechanical seal device 302 also has a flap 303 to block
15 the inlet drain pipe from direct contact with the upper atmosphere. The opening on the floor drainage cover 103 must be big enough for hand access or to allow easy clearance of the underfloor drain pipe.

Fig 3