

Z1186-ST and Z1188-ST SERIES Zurn Engineered Oil Interceptors with Integral Storage Tank

Zurn Z1186-ST and Z1188-ST Series are designed to incorporate an integral oil storage tank within them. The same practices, as with the standard Z1186 and Z1188 oil interceptors, should be followed with regard to sizing, installation, and flow control usage.

VENTING

The Zurn Z1186-ST and Z1188-ST Series oil interceptor with integral storage tank is furnished with 1-1/2" IPS vent connections located on all sides of the unit to accommodate the installation of the vent piping. Three of the vent connections are located on the oil storage tank, and one vent connection is located on the interceptor body upstream of the double wall trap seal. It is important that the unit be vented using any one of the vent connections provided. This will allow any of the volatile gases rising from the intercepted substances to be carried from the interceptor and storage tank to the atmosphere.

ADJUSTABLE DRAW-OFF

The Zurn oil interceptor with integral storage tank is furnished with an adjustable oil draw-off gate plate. This draw-off creates a passageway for intercepted oils to travel from the main separation chamber to the oil storage tank. The oil draw-off consists of an adjustable gate plate on the inside of the intercepting chamber. The adjustable gate plate can be raised or lowered inside of the interceptor chamber to the proper height for draining off the separated oils and similar light density substances that have separated and floated to the surface of the interceptor chamber.

Thus, after the oils and other substances have accumulated inside the interceptor, they will drain from the interceptor chamber by gravity flow over the internal gate plate. The gate plate shall be adjusted so that its top edge is above the operating water flow level in the interceptor chamber. There is no need to manually skim or dip out the oil, since the oil will drain off by gravity flow over the draw-off gate plate after it has been properly adjusted and tightened.

HOW TO SET ADJUSTABLE DRAW-OFF

The Zurn oil interceptor with integral storage tank should be completely installed and all connections made, including the adjustable draw-off gate plate. Loosen all bolts securing the gate plate as well as those above the gate plate. Slide the gate plate up to its highest position and tighten in place.

Clean water is then run through the oil interceptor at the flow the interceptor is rated for. This establishes the operating water level. The operating water level is marked on the inside of the intercepting chamber. The marking of the operating water level must be done while there is water flowing through the interceptor. If the mark is established at the static water level, excess amounts of water will pass over the draw-off gate plate when the flow rate through the interceptor increases to its rated capacity. In this case, the draw-off gate plate would become submerged.

Loosen the bolts securing the gate plate and slide the gate plate down so that the top edge is 1/8" above the operating water level mark. Tighten bolts securing the gate plate at this level. After the oil interceptor is put into operation and a film of oil and low density substances has accumulated at the surface, the adjustable draw-off setting should be checked by taking samples while the oil interceptor is in operation. If the gate plate is properly set to the correct height, the drawn-off oil should have no water in it. If it is apparent that water is present in the drawn-off oil, the adjustable gate plate should be moved up until only oil travels over the draw-off gate plate.