



SOIL VAPOR EXTRACTION KNOCKOUT SEPARATOR
FOR OPERATION WITH DYNASEAL SYSTEMS

HEAVY DUTY DESIGN

The Knock-out separator will consist of the following main components:

- 120 gallon vertical separator reservoir in carbon steel construction, with removable flanged top, epoxy coated inside and outside. The tank includes a tangential inlet and top outlet and nozzles for (3) level switches. The tank is fitted with a demister pack, level indicator and vacuum gauge.
- The reservoir will be fitted with a total of (3) electronic level switches, one for high and one for low level to start and stop extraction pump and one high/high level switch to stop vacuum pump. (note: electronic level probe switches have proven to be more reliable in this kind of service than mechanical float type switches.
- (1) Extraction pump rated at 20 gpm complete with 1.5 hp TEFC 230/460 Volt, 3-phase, 60 Hz electric motor. This pump is capable to remove ground water from the reservoir at vacuum levels of 27" hg and higher. The pump is manufactured in cast iron with Nitrile elastomers.
- The pump is fitted with an inlet isolation valve, pressure gauge and discharge check valve in 304 stainless steel with nitrile elastomers suitable for high vacuum operation. Optional inlet basket strainer available.
- The above items will be mounted on a separate skid and includes interconnecting piping between the extraction pump and separator.
- A NEMA 4 electrical junction box is fitted on the skid and the (3) level probes are wired to this box. Each switch requires a relay in the control panel.
- For explosion proof options, contact factory.

Travaini DynaSeal vacuum pump systems in combination with our knock-out separator design are fast becoming the standard of the soil remediation industry.