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Description of Function

Central Supply System for Formalin, Alcohol and Xylol

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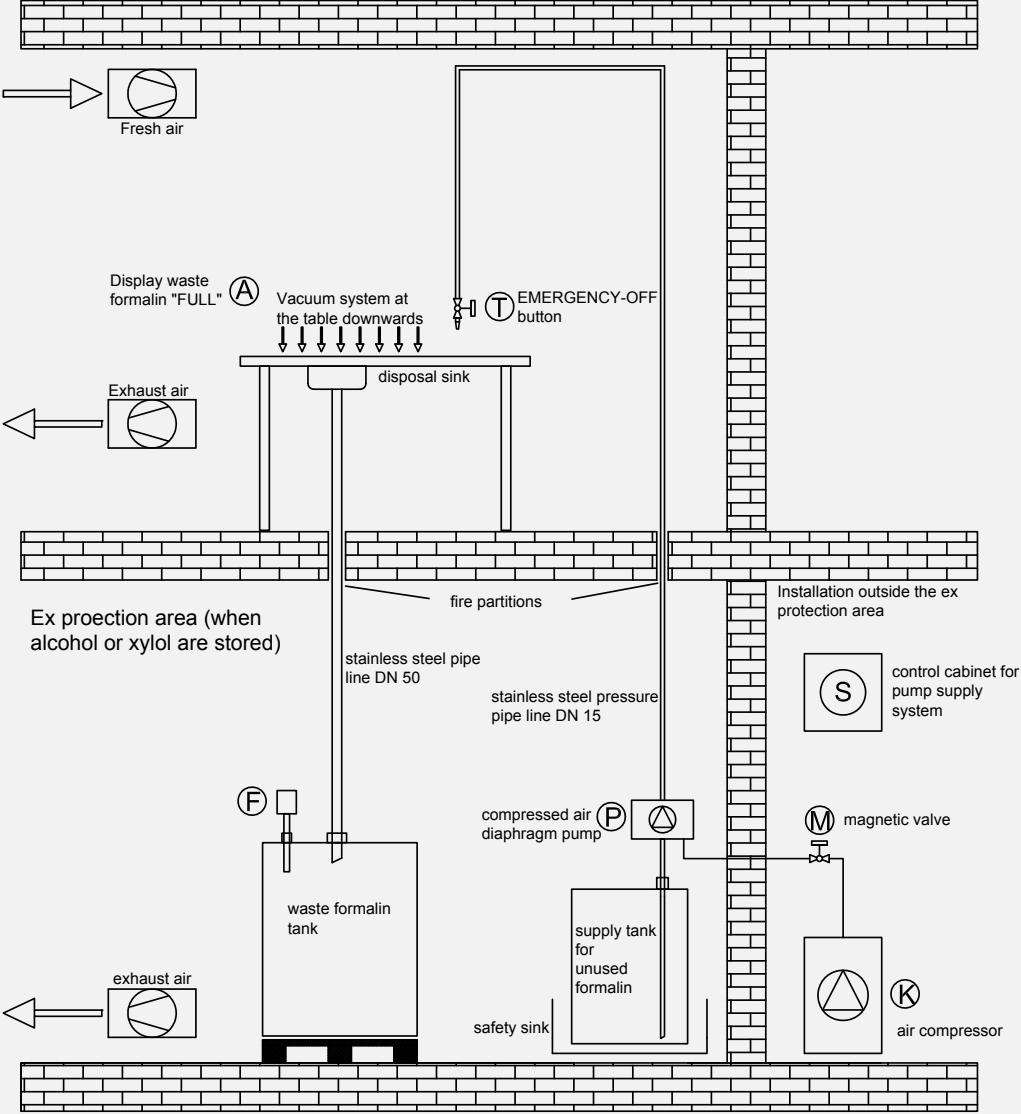
Description of Function of a Central Supply System for Formalin, Alcohol and Xylol

We offer a central supply system for different kinds of chemicals such as formalin, alcohol and xylol for easy, fast and safe dispensing of said liquids. Dispensing faucets, one faucet per chemical, are installed on a special working table. An "ON" button triggers the compressed air diaphragm pump in the ex protection area where the chemicals are stored in large barrels. The chemicals are transferred through stainless steel pressure lines for 5 Minutes to the dispensing faucet at the special working table. The liquid quantity is controlled through an integrated ball valve (8 liters/minute). A green alarm light lightens up if the pump/faucet is in use. All faucets can be used at the same time. Contaminated air is constantly vacuumed out downwards at the working table in order to underscore MAC (maximum allowable concentration) values for formalin as well as to reduce the formation of inflammatory mixture of alcohol and xylol (air capacity at least. 600 m³/h – depending on working table size).

New material (formalin/alcohol/xylol) is stored in adequate barrels in an ex protection area. The pumps have suction lance connections that are simply inserted into the barrels. The self priming pumps have a dry running protection.

Waste formalin, alcohol and xylol are disposed through a waste sink at the special working table and are able to drain downwards freely into a connection barrel in the ex protection area. A sensor level controls the filling of the connection barrels. The "BARREL FULL" light lightens up at the special working table when approximately 80% of the barrel is full.

Concept Sketch Formalin Supply System



- (K) 230V / 50 Hz
- (S) 230V / 50 Hz
- (S) — (M) Connection cable 3x1 mm²
- (S) — (F) Connection cable 2x2x0.5 mm²
- (S) — (T) Connection cable 12x1 mm²
- (F) — (A) Connection cable 2x2x0.5 mm² for waste liquids

Description of Function of a Central Supply System for Formalin, Alcohol and Xylol



Ethanol pump system (100% ethanol, 96% 1,500 liters ethanol). Stored in 200 liters steel barrels stored in ex protection area



Xylol pump system, 200 liters steel barrels with sensor level



Formalin pump system with supply tank

Description of Function of a Central Supply System for Formalin, Alcohol and Xylol



Dispensing system for formalin, xylol and ethanol with vacuum system downwards and backwards throughout the perforated sheets

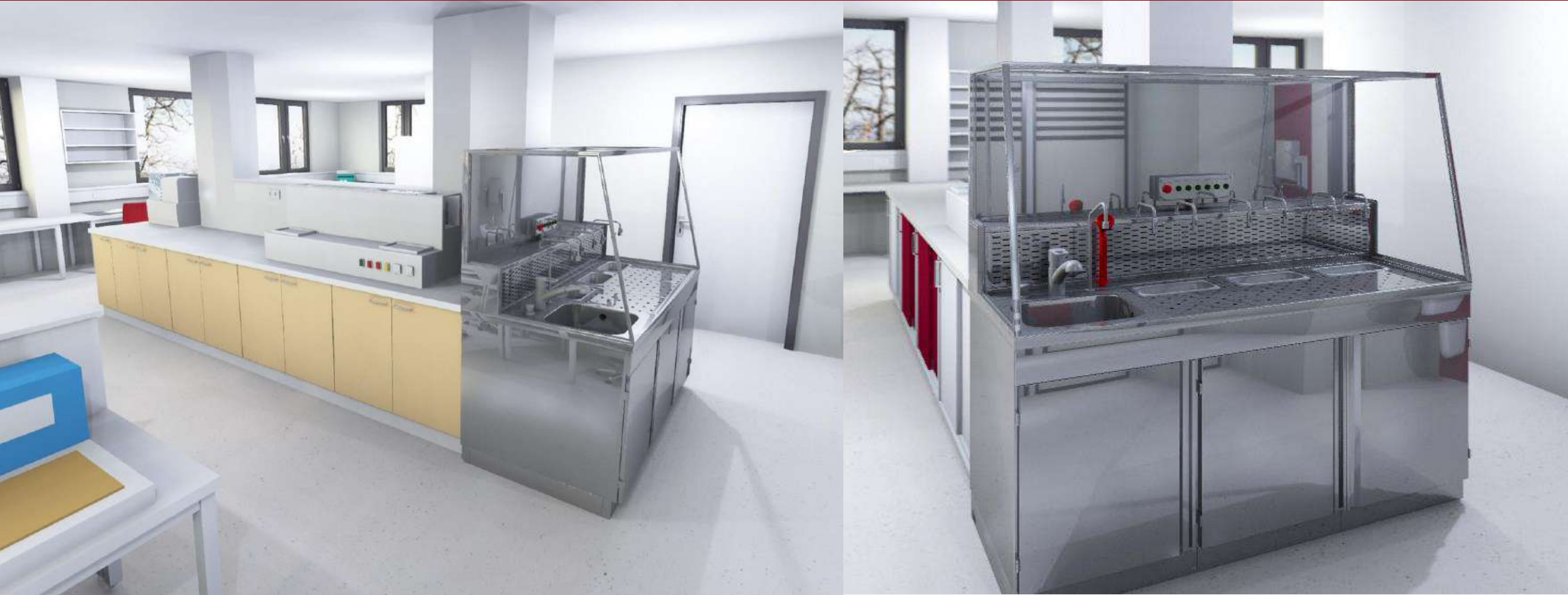


Top right: control system for dispensing unit with EMERGENCY-OFF button.



Faucets for formalin, xylol and ethanol

Central Supply System for Formalin, Alcohol and Xylol – Special Working Table



Special working table with 6 dispensing faucets as well as 3 disposal sinks. Vacuum system backwards and downwards with plexi glass for optimal air removal.



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