

Diatomite candle filters for beer, wine and fruit juice filtration - type FKS.

Diatomite filtration is a traditional and integral part of the production technology in brewing industry and in numerous other areas in food industry. Candle filters are most frequently used to remove yeast and biological sediment from beer and wine but also from various fruit juices and concentrates. DESTILA company, which has a long tradition in production of these filters, has been modernising them constantly so that they meet the most demanding requirements for filtration quality and are both economical and energy efficient.

060-080

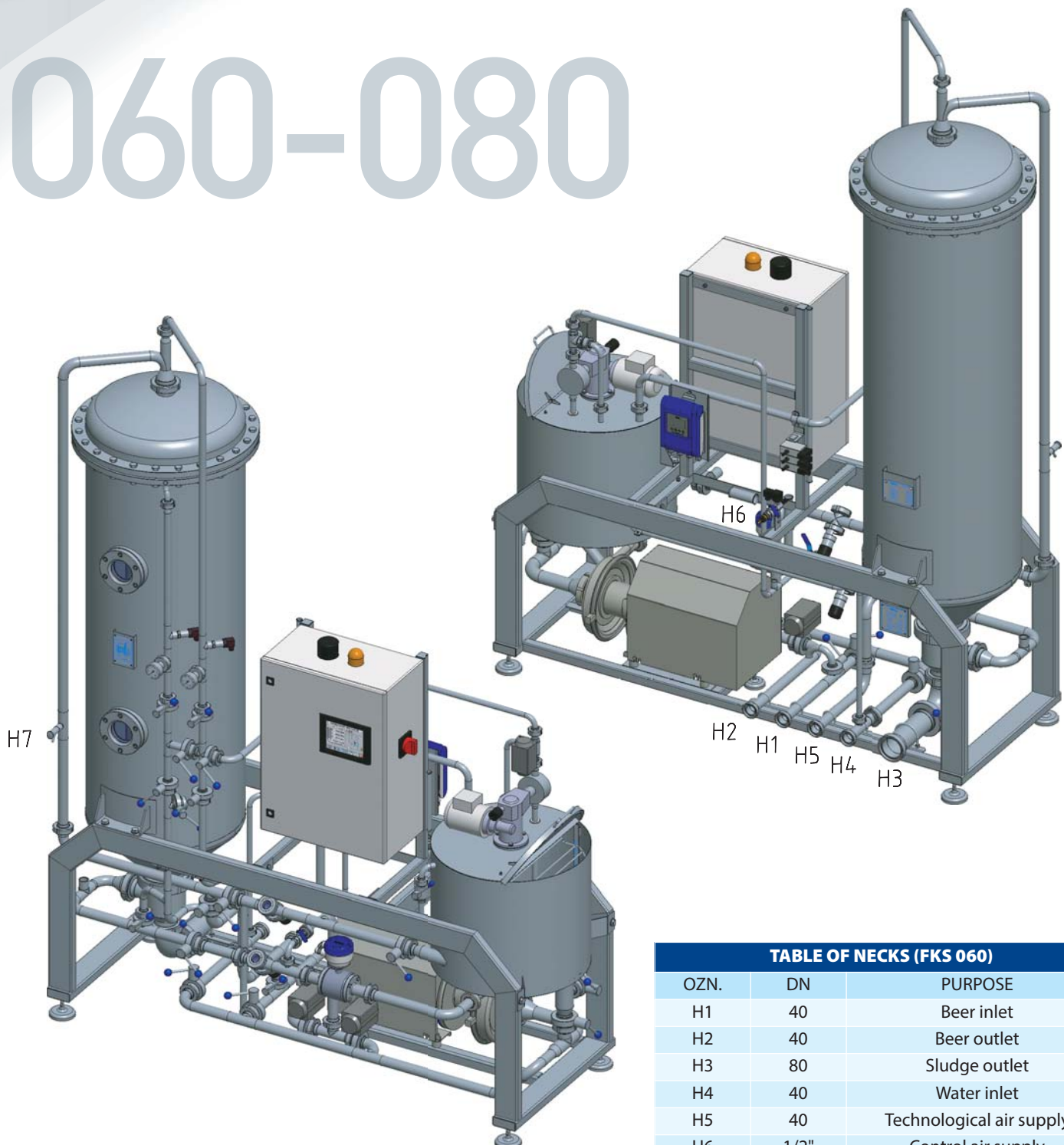


TABLE OF NECKS (FKS 060)

OZN.	DN	PURPOSE
H1	40	Beer inlet
H2	40	Beer outlet
H3	80	Sludge outlet
H4	40	Water inlet
H5	40	Technological air supply
H6	1/2"	Control air supply
H7	8	Sampling

Diatomite candles filters FKS

The filtration equipment of the FKS series is intended for primary beer filtration, both using continuous dosing with auxiliary filtration means (continuous dosing during filtration) and without continuous dosing (only to the raised basic filtration layer).

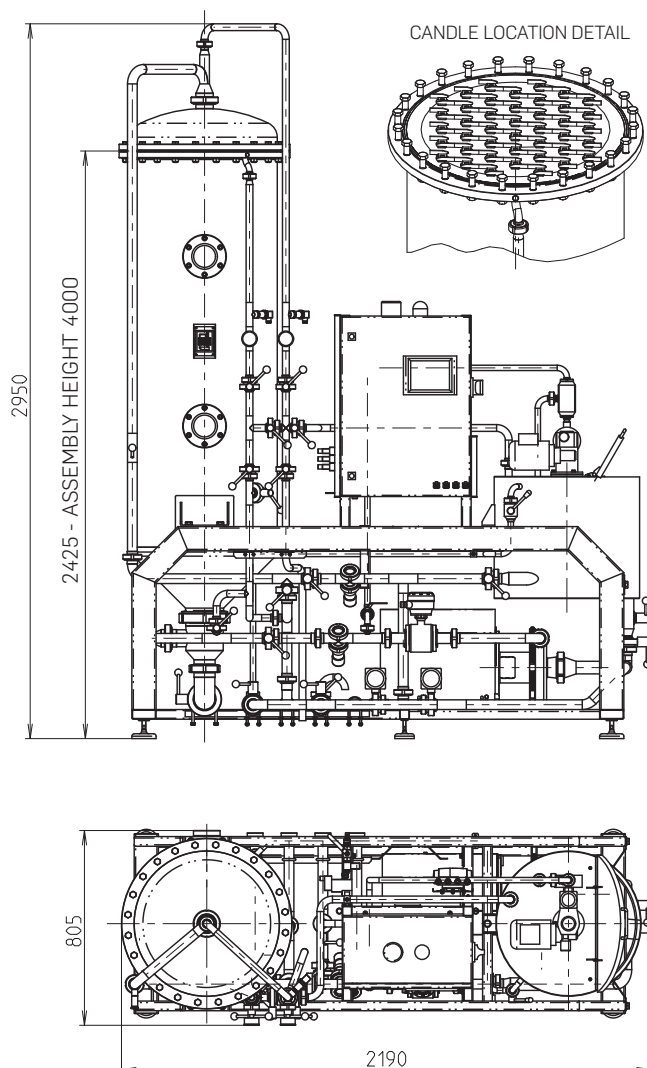
Diatomite candle filters of the FKS type with vertical candle filters are intended for bigger industrial operations. The filtration area is from 6 to 8 m².

The candle design enables its easy assembly and disassembly from the filter housing and easy, fast and high-quality filter cleaning. The candles are cleaned easily by means of counter flushing when it is possible to use a water and air pressure impact of up to 600 kPa without worrying about a possible damage. In case of preventive treatment, it is possible to apply water spray inside the candle without dismantling the filtration candles from the filter. A big advantage of candle filters is their construction based on moving mechanical parts. To a great degree it therefore decreases a risk of the loss of tightness in the sludge area as well as the failure rate of the filter and demand for spare parts and technical maintenance.

The filtration layer is stable as there are more elements on the filtration area of the candles filters and therefore each candle has a lower amount of the filtration means. During filtration, the candle rigidity does not cause any shaking or vibrations which would be transferred to the diatomite filtration layer.

Filters are added as required through the system of levelling tanks and other equipment. The filters of the FKS series are characteristic with a higher level of control for easier control in pre-set phases of the filtration cycle. The relevant parameters (flow rate, volume and time) are pre-set for every phase. The filter enables automatic maintenance of the pre-set flow rate regardless the growing pressure, automatic switching between various filtration and circulation modes, monitoring of the pressure on the filter and counting the volume for individual beers. Optionally, the filter can also be fitted with a two-angle haze meter.

According to your requirements, our designers and technologists will prepare a custom-made filtration system with accessories and recommend and test a suitable filtration technology right in your operation.



BASIC DATA

TYPE	Filter output during beer filtration PF [hl/hour]	Filtering area [m ²]	Length A [mm]	Width B [mm]	Height C [mm]	Assembly height [mm]	Weight [kg]
FKS 060	30-48	6	2190	805	2950	4000	765
FKS 080	40-64	8	2500	905	3200	4400	850

