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neutralisiert saure Kondensate



Neutrakon Pro SN90
April 2021

„Acidic is not always funny“

Neutrakon Professional SN90



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Neutrakon Professional SN90



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Background



Neutrakon Pro SN90 – A scalable and thought through solution for treating big amounts of exhaust and condensing boiler condensates in a clean, easy and problem-free manner, thus making a strong contribution to water and water systems protection!

Internal market research showed a clear lack of a solution in this segment. There are some specific projects with special solutions, but none with a „system“.

This protected utility model is a milestone in the handling of condensates from large systems. The complete product as well as the baskets are registered as „DBGM“ (Deutsches Bundes-Gebrauchsmuster) in the German Patent and Trademark Office (Deutschen Patent- und Markenamt).

Final prototyping February 2021:



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Neutrakon Pro SN90

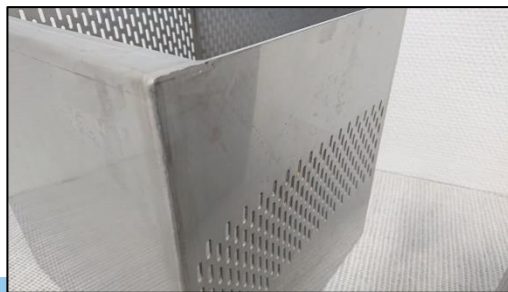
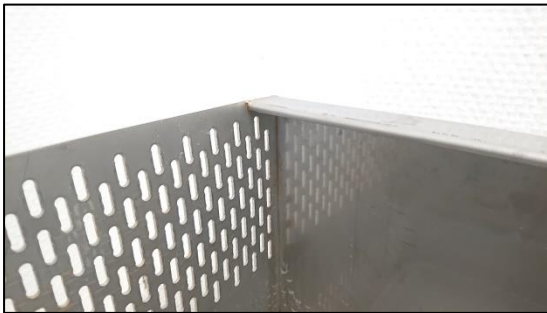
The new neutralisation unit Neutrakon Pro SN90 is made of high quality stainless steel with a length of approx. 110cm, a width of approx. 35cm and a height of approx. 40 cm.

Appropriated for acidic condensates deriving from exhaust and condensing boilers, CHP or chimneys up to 11 MW or 1500 l/h, it convinces right away with its compact design and the innovative neutralising baskets. High quality stainless steel (V4A) assures acidic and temperature resistance, and fits optically in every professional environment, regardless of inner or outside usage.

Neutrakon Pro SN90 - baskets



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Neutralising baskets- optimal condensate flow

The Neutrakon Pro SN90 has 3 juxtaposed neutralisation baskets to ensure an easy handling for carrying out maintenance works.

Through its possible scalability an individualization of the neutralisation capacity is possible. The sequence of the baskets was not left to chance. Guided by the separation partition on the intake side, the condensate is directed immediately the right way when entering the neutralisation box. Through the length of the Neutrakon Pro SN 90 and the condensate flowing, sufficient contact time with the neutralising agent is ensured. The number of baskets can be adapted to the specific needs.

Maintenance

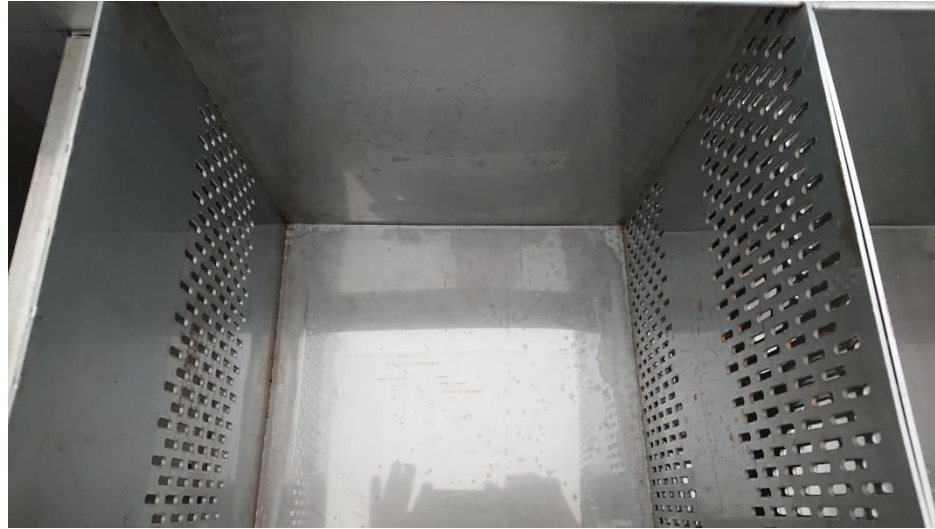
Through the intelligent, but easy lock and release function of the baskets an uncomplicated carrying out of maintenance works is possible, even for this size of unit. Each basket can be removed from the neutralisation box Neutrakon Pro SN90 by pushing the basket on the left and right side levers. The granules can then be exchanged and/or cleaned in its entirety. A ball valve allows full drainage of the neutralisation box.

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Detail neutralising baskets



Condensate intake pipes and ball valve for maintenance works



Condensate outlet pipe



General perspective



Neutrakon Pro SN90



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Detail from inside condensate intake pipes with partition wall



Stainless steel box without baskets



Condensate outlet pipe with basket locking function



General perspective



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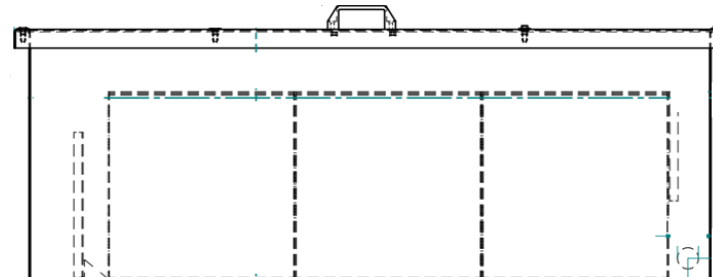
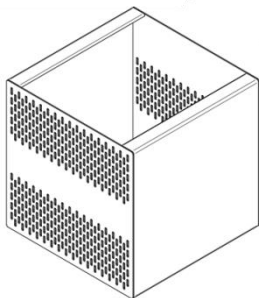


Technical Data Neutrakon Pro SN90



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Technical Data	
Execution	Stainless steel V4A
Weight stainless steel box	25kg
Weight stainless steel cover	7,5 kg
Weight neutralising baskets	7kg
Total weight (stainless steel box, stainless steel cover, 3 neutralising baskets)	53,5kg
Granules filling quantity (per basket)	30kg (max.)
Dimensions (w/o fittings)	length 1137 mm; width 350mm; height 402mm
Dimensions (with fittings)	length 1185 mm; width 450 mm; height 402mm
Amount neutralising baskets	3
Intake	1 1/4"
Outlet	1 1/2"
Ball valve	1"
Entry height / exit height	125mm / 210mm
Mommertz part number	096700



For the curious... Projectphase Neutrakon Pro SN90



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Prototyping SN90



Prototype for technical drawing



Prototype with neutralising basket locking function (above)

Locking function is thought to be used as a release for the baskets and thus allowing easy removal of baskets for maintenance purposes (bellow)



Project SN90



Step 1 – Validation of basic idea



Step 3 – Checking of water flow behaviour with neutralising agent



Step 2 – Checking of water flow behaviour



Step 4 – constant measuring of pH value

Granules type GS



Granules type GS in neutralising basket

