NUCON International, Inc.
P.O. BOX 29151  7000 HUNTELEY ROAD
COLUMBUS, OHIO  43229  U.S.A.

TELEPHONE: (614) 846-5710
TOLL FREE: 1-800-992-5192
FAX: (614) 431-0838
WEB SITE: www.nucon-int.com

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NUCELL® TYPE II CARBON ADSORBER TRAYS
(United States Patent 4,292,059)

The NUCON NUCELL® carbon adsorber is designed for high efficiency and leak proof applications. The adsorber conforms to ASME AG-1 (Referenced by U.S. NRC Reg. Guide 1.52 and ASME N509).

The NUCELL® Adsorber is a unique design with an inner cage of perforated stainless steel surrounded on 5 sides by at least 2 inches of carbon. The outer cage has perforated stainless steel on 4 sides with a solid fill cover plate. This design allows flow from 4, rather than 2 faces and the loading of significantly more carbon in the same standard envelope than other current designs. The additional carbon provides higher residence time and a lower pressure drop at a given flow rate than the common 2 bed design. Solid spacer assemblies and all welded construction, except the fill cover plate, ensure strict dimensional adherence to applicable standards. The back plate is riveted on. The 2 inches of carbon between this back plate and the solid back plate of the inner cage eliminates problems from gas flow leakage through the pop rivets since all gas flow paths are through at least 2 inches of carbon. Solid, integral glide angles are provided on all surfaces to protect the cell during installation or removal.

Each NUCELL® Adsorber Tray is filled to maximum packing density with qualified radiiodine removal adsorbent (per R.G. 1.52). The full rear opening permits packing the cell without voids.

Typically, dimensions are to ASME AG-1 & ASME N-509 (and older documents such as AACC CS-87/IES-RP-CC-008-84). However, trays are manufactured to dimensions specified by the client.

Each NUCELL® Adsorber Tray is halide leak and pressure drop tested. The maximum allowable halide leakage is < 0.01%.

Each NUCELL® Adsorber Tray is marked with all required data and sealed in polyethylene to prevent contamination during storage.

NUCELL® Adsorber Trays are covered by a 10-year Warranty (See attached bulletin 11B12-W)

Standard packing/shipment cartons conform to ASME AG-1/ANSI N45.2.2

NUCON is fully licensed for radiiodine testing and offers in-house capability to provide all testing listed in U.S. NRC Regulatory Guide 1.52 (all revisions) as well as related ASTM, ANSI and RDT Standards.

Attachments:  Dwg No.: 9031-200-01; Standard Type II Adsorber Tray (or specific alternate)
              Dwg No.: 9031-200-02; Type II Test Tray Assembly (or specific alternate)
NUCON 10-Year Type II Tray Warranty

TYPE II ADSORBER TRAYS

NUCON manufactures Standard Type II adsorber trays and Test Tray Assemblies. We believe our trays are the best available. We believe they are well designed, well made, and resistant to damage in normal service conditions and handling.

RADIOIODINE REMOVAL ADSORBENT REFILLING

We fill, and refill, existing adsorbers (all manufacturers and models) with our NUSORB brands of radiiodine adsorbents (KITEG II, TEG and KIG). These may be familiar to you. Our adsorber tray designs may also be familiar.

WARRANTY

We believe our trays are so well made that we extend a 10-year Warranty covering repair or replacement of NUCON Type II Adsorbers and Type II Test Tray Assemblies. The effective period of this warranty runs from the original date of delivery of the tray(s), for a period not to exceed 10 years. For trays older than 10 years, NUCON will work with the customer to establish a mutually satisfactory warranty period.

Besides the usual coverage of “defects in material and workmanship” we ALSO cover normal “wear and tear” resulting from handling, shipping and refilling. Our Warranty applies to all NUCON adsorber trays INCLUDING EXISTING trays you currently own.

When you submit NUCON adsorber trays for refilling, we will repair or replace any damaged tray that falls within the coverage guidance detailed above absolutely FREE.

If you are interested in new or replacement adsorber trays please contact us.

LIMITATIONS

This Warranty does not cover damage resulting from negligent use, miss handling, physical abuse, or damage incurred directly due to shipping deficiencies. Chemical or similar damage, such as corrosion, is likewise not covered. All decisions to repair or replace a damaged adsorber tray must be made by NUCON. Determinations by others are not covered. All trays must be sent to NUCON. (This warranty does not include the charge of radiiodine removal adsorbent.)