



Vantran®

INDUSTRIES, INC.



Liquid Filled Custom & Specialty
SUBMERSIBLE (VAULT) TRANSFORMERS
Single & Three Phase



PROUDLY MADE IN THE USA BY AN AMERICAN COMPANY



Custom & Specialty Submersible (Vault) Transformers

- SINGLE PHASE ■ THREE PHASE
- THRU 2500 KVA AND 150 KV BIL

VanTran Industries is a global leader in custom and specialty submersible transformers. With nearly 50 years of experience in the liquid filled transformer industry, you can count on VanTran for quality, durability and reliability. All of our transformers are manufactured in house with 100% new materials. We design and wind all of our coils; we form and heat-treat all of our cores, and we weld and fabricate all of our sheet metal components. VanTran's vertical manufacturing processes give it the flexibility to design, manufacture, and deliver the highest quality products, on time and on budget.

VanTran submersible or "Vault" type transformers are in service around the globe with many satisfied customers. Our specialty units can be found in a variety of industries including municipal utilities, railroad signaling, offshore oil production, temporary power needs, step-up applications, military installations, industrial manufacturing plants, hazardous environment locations, and countless other demanding applications.

Our team of highly experienced engineers works directly with our customers to design and develop transformers for applications on the cutting edge of technology. From challenging new applications to difficult retro-fits, VanTran can assist with all of your transformer needs.



Single Phase



Three Phase



Quality Engineering ■

VANTRAN INDUSTRIES, INC. ■ 1-800-433-3346 ■ 254-772-9740 ■ Fax 254-772-0016 ■

Tank, Bushings and Accessories

All VanTran submersible Transformers feature sealed tank construction and conform to NEMA and ANSI C57.12 standards where applicable. Our submersible units are designed and built one at a time for your specific application. As a result, VanTran can manufacture custom units with an endless array of voltages, frequencies and configuration variations.

VanTran submersible transformers feature 304L stainless steel tanks (316L available) with welded on covers and painted with a heavy tar-like coating to prevent corrosion.

High voltage bushings are top mounted, dead front, epoxy wells with inserts. Low voltage bushings are also top mounted and come standard with spade terminals. Fusing is accomplished by under oil non-load break canister fuses interlocked to an on-off safety switch.

VanTran custom makes all of our submersible radiators in house out of 3/16" steel to ensure our units will withstand the challenging, high moisture environments inherent to vault installations.

All VanTran submersible transformers can be customized with endless accessory options but come equipped as standard with:

- Automatic Pressure Relief Valve
- Lifting Hooks
- Base Designed For Rolling and Skidding
- Schrader Valve for Nitrogen Blanket
- Externally Operated Tap Changer
- Jacking Pads
- One Inch Fill Plug
- One Inch Drain Valve (Built in Sampler Included on 750 kVA Units and Larger)
- Tank Grounding Pads (1/2"-13 Tapped Holes)
- Diagrammatic Corrosion Resistant Nameplate

Core and Coil

All VanTran three phase transformers are five-legged core construction using three coils and four core iron loops. Single phase units consist of a single coil with two core iron loops. As a result, VanTran units have inherent high performance and low loss characteristics.

Low voltage windings are of strip (foil) aluminum or copper, laminated with high quality resin coated thermal setting upgraded craft paper. Inherent in the application of strip winding is high short circuit capability and longer life.

High voltage windings are of round or rectangular magnet wire, with a heavy formvar film coating on the round and double crepe paper on the rectangular. Interlayer insulation material is resin coated thermal setting upgraded craft paper with cooling ducts liberally spaced throughout to minimize conductor gradient and reduce hottest spots.

All VanTran cores are made in house with grain oriented silicon steel. Cores are stress relief annealed in the shape and size required for the final design. As a result, core losses in VanTran transformers are the lowest obtainable from a given grade of steel.



Quality Craftsmanship

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*Can we build a transformer for you, today?*TM

Since 1963, VanTran Industries has manufactured liquid-filled transformers of the highest quality for the industrial, commercial, and utility markets.

From the beginning, we have focused on providing innovative engineering and design solutions for our customers' unique requirements. Our highly trained and experienced technical staff welcomes the most challenging of design specifications.

**We are
recognized
as the foremost
independent
specialty
transformer
manufacturer in
America—with
shipments world-
wide.**

By maintaining our independence and emphasizing customer satisfaction, we have been able to adapt rapidly to the fast-changing distribution and small-power transformer market, while meeting ANSI and NEMA standards of manufacturing.

Regardless of the size or scope of your order, we'll get the job done right—on time, and cost effectively. We ensure your satisfaction at every stage of the process.

***We deliver the products you need—
when you need them.***

Whether you have a unique design need or a request for standard transformers, we can fulfill your requirements quickly and efficiently. We are ready to fill your order—large or small—unique or standard.



An American Success Story

Independently owned and operated, VanTran Industries is a true American success story. We are American engineers and American craftsmen. With a history of success and a vision for the future, no one can serve you better than VanTran Industries.

**Please call us today
1-800-433-3346**



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