

Double Stage Vacuum Insulation Oil Purification Plant



Under effect of heat and electric field, the exposure of insulation oil contained trace water, gas and particulate matters etc.

The use of <u>Vacuum Insulation Oil Purification</u> <u>Plant (VFD)</u> is necessary, which will help you maintain optimal oil cleanliness. Therefore, making the most use of your equipment to gain the highest and save your money.



H Keep you oil to be Clean and Dry







What's make the best for you:

Efficient performance

- Enhance breakdown voltage
- High efficiency of de-water, de-gass and particulate-remove
- Multi-stages filtration system
- PLC programmable logic controller

Safety-ensuring systems

- Auto liquid controlling
- Auto pressure protection
- Auto stead temperature controlling
- Auto electrical protection

Compact design

- National qualified advanced components
- Small size, light weight, low noise
- Low maintenance
- · Long servicing life

User-friendly design

- Oil vacuum injection
- Transformer drying
- Continuous Online working
- Highly automatic operation











Oil pump (screw type)



- Dispel foam devices
- Digital vacuum gauge (optional)
- Digital flow meter (optional)
- Control cabinet

VFD Optimized Structures:

Dehydration (Degassing) System

- ✓ Vacuum chamber utilizes coacervation, coalescing, separating and refined purification technology.
- ✓ To remove free, soluble water, free and dissolved gases.
- Complete with degassing elements, safety level switch, oil level controller, and oil level indicator, etc.

Filtering System

- ✓ Delamination gradual-close filtering
- ✓ Fineness has 1, 5, 80, 500 µm etc.
- ✓ Cartridges easy to replace.

Oil Heating System

- √ Adjustable temperature
- ✓ Overheating protection
- ✓ Manual and automatic available

Control panel

- ✓ The instruments, alarms and interlocks instruments and electrical controls.
- ✓ Buzz alarm, pilot lights





VFD Optimized Structures:

Pumps

- ✓ Vacuum pump from Germany Rietschle or Germany Leybold.
- ✓ Roots pump from Germany Allweiler technology
- ✓ Oil discharge pump is screw pump, gear pump available.

Cooling System and Condensing System

 Composed of heat exchanger, condensator, radiator, water pump and water container

Auto-Control And Protection System

- ✓ Composed of level controller, motor, electromagnetism valve, protection units etc.
- ✓ Protection avoid:

oil ejection overload abnormal pressure abnormal oil level high temperature over voltage etc





Machine Spec:

✓ Flow rate in L/H: 600 ~ 18,000

√ Vacuum range in Mpa: -0.092~-0.099

✓ Working pressure in Mpa: ≤ 0.2

✓ Max vacuum range in Pa: ≤ 5

✓ Temperature range °C: 45 ~ 80

- ** Operating voltage: 380 V (50 Hz), 380 V (60 Hz), 400 V (60 Hz), 415 V (50 Hz), 415 V (60 Hz), 220 V (60 Hz), 460 V (60 Hz), etc (customizable)
- ** The heating power and total power are different with different capacity, please consult sales for more.

Oil Spec:

✓ Water: ≤ 5 PPM

 \checkmark Filter Fineness: ≤ 5 μm (or ≤ 1 μm)

✓ Dielectric: ≥ 65kV~75kV

✓ Degassing: ≤ 0.1%

Adding VFD with **regeneration device**, the machine can also treat acid, sludges, carbon and remove color.

✓ Oil color: better than L=0.5

✓ Acid Value: ≤ 0.01 MgK0H/g

√ Soluble Acid PH value: =5~7

✓ Dielectric loss tangent tg(90°C)% :

≤0.002

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