

变压器吸湿器

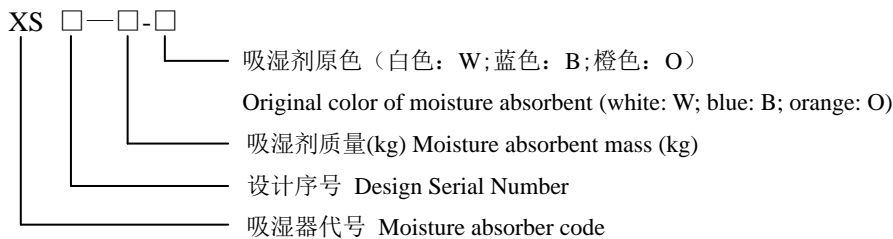
Transformer moisture absorber

1、简介、用途与特点 Introduction, purpose and characteristics

1.1 简介 Introduction

吸湿器的主体是用螺杆夹紧于上下两法兰的透明玻璃筒，根据客户需求筒内可填装蓝色硅胶，或橙色硅胶（吸潮剂），在吸湿器的底部有装变压器油的全透明双层玻璃油杯。

The main body of the moisture absorber is a transparent glass cylinder clamped to the upper and lower flanges with screws. According to customer requirements, the cylinder can be filled with blue silicone or orange silicone (moisture absorbent). At the bottom of the moisture absorber, there is a fully transparent double-layer glass oil cup filled with transformer oil.



1.2 用途 Uses

该吸湿器是一种空气净化装置，它安装在变压器、互感器的储油柜进气孔末端，可有效的滤除空气中的灰尘和水分，以保持变压器油的清洁与电气性能。

The moisture absorber is an air purification device, which is installed at the end of the air inlet of the oil storage cabinet of the transformer and transformer, which can effectively filter the dust and moisture in the air to maintain the cleanliness and electrical performance of the transformer oil.

1.3 特点 Features

- 净化室采用全透明加长钢化玻璃筒，延长过滤时间，比常规吸湿器效率明显提高 30%；
- 底部采用双层透明钢化玻璃结构，油杯加油后，在变压器工作运行时，直接可以观察到吸湿器的吸气和呼气；
- 底部防潮保护帽可以避免硅胶在运输途中受到污染。（该保护帽仅用于运输，向玻璃杯注油时，必须拆除防潮保护帽！）

(1). The clean room uses a fully transparent and lengthened tempered glass tube to extend the filtration time, which is significantly higher than the conventional moisture absorber by 30%;

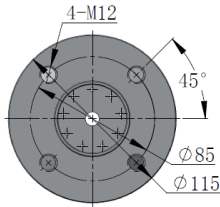
(2). The bottom adopts double-layer transparent tempered glass structure. After the oil cup is refueled, the suction and exhalation of the moisture absorber can be directly observed when the transformer is operating;

(3). The red protective cap at the bottom can prevent the silica gel from being contaminated during transportation. (The protective cap is for transport only, the moisture protection cap must be removed when filling the glass with oil!)

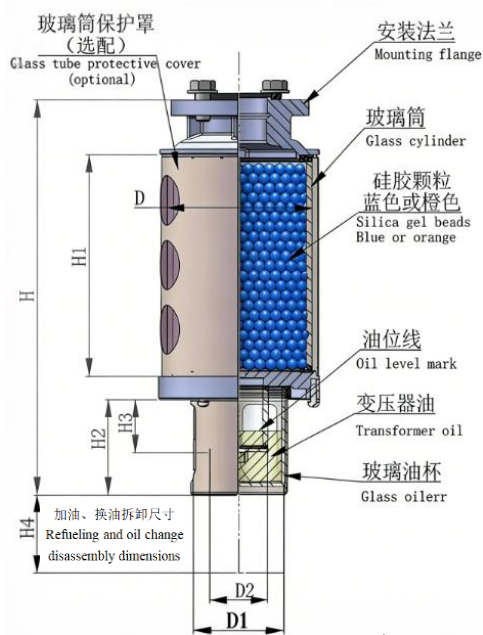
2、安装尺寸图: Drawing

2.1 不可拆卸型吸湿器 Non detachable moisture absorber

安装法兰尺寸图
Mounting flange dimension drawing



失效后硅胶颜色: 蓝色变为粉红色, 橙色变为墨绿色
After failure, the silicone color changes from blue to pink and from orange to dark green

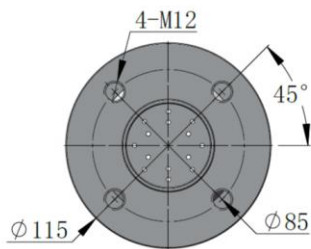


-表 1- - Table 1-

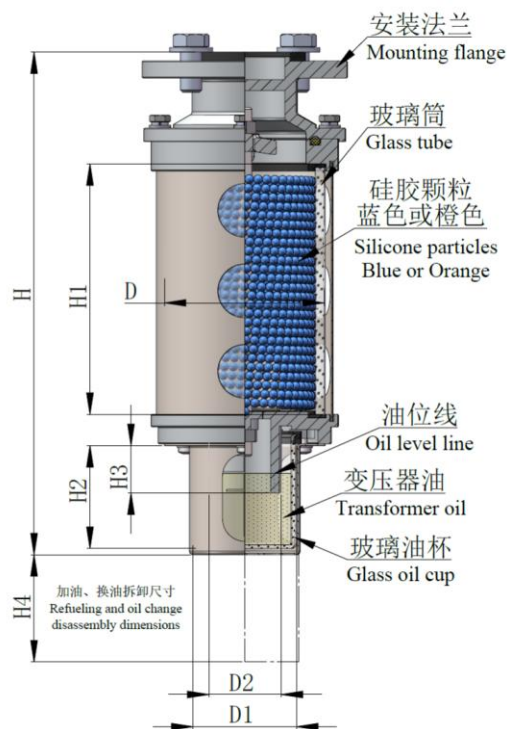
| 型号 (Model) | H | H1 | H2 | H3 | H4 | D | D1 | D2 | 安装尺寸 (Installation size) | 填充硅胶重量 Kg (Filled silicone weight Kg) |
|---------------|-------|-----|----|------|-----------|-----|------|----|-----------------------------|--|
| 0.5Kg | 265.5 | 146 | 61 | 29.5 | ≥ 70 | 89 | 57.5 | 41 | $\phi 115$ | 0.5 |
| 1Kg | 317.5 | 177 | 77 | 42.5 | ≥ 70 | 118 | 75 | 48 | $\phi 115$ | 1 |
| 1.5Kg | 347.5 | 237 | 77 | 42.5 | ≥ 70 | 118 | 75 | 48 | $\phi 115$ | 1.5 |

2.2 可拆卸型吸湿器 Detachable moisture absorber

安装法兰尺寸图
Mounting flange dimension drawing



失效后硅胶颜色: 蓝色变为粉红色, 橙色变为墨绿色
After failure, the silicone color changes from blue to pink and from orange to dark green



-表 2- - Table 2-

| 型号 (Model) | H | H1 | H2 | H3 | H4 | D | D1 | D2 | 安装尺寸 (Installation size) | 填充硅胶重量 Kg (Filled silicone weight Kg) |
|---------------|-------|-------|-------|------|------|-----|------|----|-----------------------------|--|
| 0.5Kg | 281.5 | 146 | 61 | 29.5 | ≥70 | 89 | 57.5 | 41 | φ115 | 0.5 |
| 1Kg | 335 | 177 | 77 | 42.5 | ≥70 | 118 | 75 | 48 | φ115 | 1 |
| 1.5Kg | 365 | 237 | 77 | 42.5 | ≥70 | 118 | 75 | 48 | φ115 | 1.5 |
| 3Kg | 459 | 257.5 | 113.5 | 73.6 | ≥105 | 160 | 105 | 80 | φ115 | 3 |
| 5Kg | 588 | 387.5 | 113.5 | 73.6 | ≥105 | 160 | 105 | 80 | φ115 | 5 |
| 7Kg | 718 | 517.5 | 113.5 | 73.6 | ≥105 | 160 | 105 | 80 | φ115 | 7 |
| 10Kg | 591.5 | 384 | 113.5 | 73.6 | ≥105 | 230 | 105 | 80 | φ115 | 10 |

注：实际选用中，吸湿剂的重量应不低于变压器储油柜油重的千分之一。

Note: In actual selection, the weight of the hygroscopic agent should not be less than one thousandth of the weight of the oil in the transformer oil storage tank.

本产品提供多种颜色选择，具体描述如下：

The product provides a variety of color options, specifically described as follows:

| 色卡编号 Color card No | 颜色 Color | 可选性 Optionality of choice |
|--------------------|----------------------|---------------------------|
| RAL7038 | 玛瑙灰 Agate grey | 默认 (Default) |
| RAL7042 | 交通灰 A Traffic grey A | 可选 (Optional) |
| RAL7035 | 浅灰色 Light grey | 可选 (Optional) |

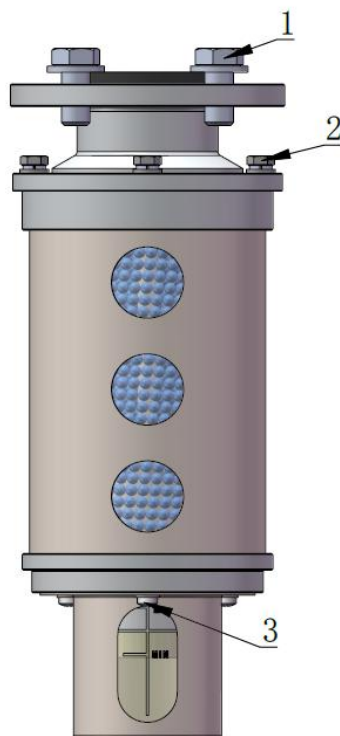







表 3 扭矩参考表

Table 3 Torque Reference Table

| 序号 Number | 装配位置 Assembly position | | 螺纹规格 Thread specification | 推荐扭矩 Recommended torque | 装配工具规格 Assembly tool specifications | | 备注 Notes |
|--------------|-----------------------------------|----------------------------------|---------------------------------|-------------------------------|---|------|---------------------------------------|
| 1 | 法兰安装孔 Flange installation hole | | M12 螺栓 Bolt | 35~40Nm |  | 19mm | |
| 2 | 玻璃筒 Glass tube | 0.5kg、1.0kg、1.5kg | M6 | 7~8Nm |  | 10mm | 建议手动安装 Suggest manual installation |
| | | 3kg、5kg 7kg、10kg | M8 | 18~22Nm |  | 6mm | 建议手动安装 Suggest manual installation |
| 3 | 玻璃 油杯 Glass oil cup | 0.5kg、1.0kg、1.5kg 3kg、5kg、7kg | M5 | 4~5Nm |  | PH2 | 建议手动安装 Suggest manual installation |
| | | 10kg | M6 | 7~8Nm |  | 5mm | 建议手动安装 Suggest manual installation |