

Dehumidifier



Dehumidifier for Electrode store room



Introduction

WELTRON WDF-901B, refrigerant-type dehumidifier is designed to operate indoor for reducing moisture content in the air and thus controlling the humidity level of the room.

Adding a dehumidifier to a storage room, especially those ones located in the basement, is one of the most important steps to reduce the amount of moisture that storage products are exposed to.

The moisture can cause mildew growth and damage furniture of welding electrode and even sensitive electronic components.

WELTRON WDF-901B dehumidifier consists of a compressor, heat exchanger, fans, chassis and a controller. It works on a heat exchange principle (the process of condensation) to remove moisture from the air. A dehumidifier works similar way to an air conditioner, the main difference being that it has both hot and cold coils within the system.

Air is drawn in by a fan and moisture from the air condenses on one set of coils much like an air conditioner evaporator coil. The water is siphoned out through a drainage hose. The other coil warms the air, which is blown back into the room.

Relative Humidity (RH) and Humidistat

Humidity, the amount of moisture / water vapor in the air content, is most often discussed about in terms of relative humidity (RH). RH is the amount of water vapor actually present in the air compared to the maximum amount of water vapor the air can hold at that temperature. The optimum RH level for a building is generally considered to be ranged from 30% to 50%. Anything above this range may promote bacteria growth. (In colder climates, during the heating season, humidity levels should be in the range from 30% to 40% RH to prevent window condensation.)

WELTRON Dehumidifier includes a built-in humidistat which permits the setting of desired RH level for the room. Once the room reaches the desired RH level, the humidistat will cycle on and off automatically to maintain the level.