



US  
SERIES

# Keep It Cool!

## Condair's US Series Ultrasonic Cool Mist Humidifier



### Overview

Condair is the world leader in humidification and evaporative cooling technology, creating the most appropriate solutions for every specific need. To this end, the new US Series, Ultrasonic Humidifiers, have been developed and engineered to meet the highest standards of cost-effective and efficient performance. Designed for ease of installation, simplicity of operation, reliability, energy efficiency and control accuracy, the US Series is ideally suited for many applications.

Using piezoelectric transducers operating at 1.7 MHz, the US Series generates an ultra-fine (1 – 3 micron) cool mist. This mist is then distributed directly into the space using a quiet and efficient Blower Pack. Since, unlike steam humidifiers, no water is boiled, ultrasonic technologies offer some of the lowest energy humidification on the market, decreasing direct energy costs by 90%.

Additionally, the mist cools the air slightly as it evaporates generating more potential savings.



**With an easy and quick installation, the Condair US Series is available in four different capacities;**

- Medium housing: 7 lbs/hr (3 kg/hr)  
13 lbs/hr (6 kg/hr)  
20 lbs/hr (9 kg/hr)
- Large housing: 40 lbs/hr (18 kg/hr)

The unit cabinet includes everything except the mist distribution system (Blower Pack) and water treatment.

**Hygiene**

Regular flushing cycles - Stagnant water poses a risk of microbial contamination. The US series features hourly flushing cycles (when operating) and automatic drain if no demand to prevent water stagnation. When in standby the unit will complete a full flushing cycle every 24 hours for further safety. Additionally the US series features:

- Stainless Steel chemically polished water tank
- UV water treatment
- MERV 12 Air Intake filter
- Antimicrobial & Antistatic internal components

**Blower Pack**

In space mist distribution system.

- High efficiency of absorption
- Available built-on to humidifier or remotely installed for optimal flexibility
- Fast absorption <12 feet
- Antimicrobial mist channel

**Why Choose the Condair US Series**

**Features**

- Innovative design - All necessary parts in one cabinet simplifies installation
- Hygienic design promotes safe operation
- High quality coated transducers - Operational lifetime of 10000 hours
- Control – On/Off,Demand, or Sensor signal acceptable
- Accurate output modulation allows for high accuracy (+/- 1% when paired with precision controls)
- Blower pack allows remote distribution and short absorption distance

**Additional Features**

- Worldwide voltage compatible - 110-240V / 50-60 Hz / 1ph
- UL998 approved

**Benefits**

- Cost Savings - Low energy consumption (Approx. 33 W per lbs/h)
- “Adiabatic” cooling effect as mist evaporates
- Fast start-up and exceptional control accuracy
- Compact solution
- Easy to install and service

Specification	US-7	US-13	US-20	US-40
Capacity lbs/hr (kg/hr)	7 (3)	13 (6)	20 (9)	40 (18)
Dimensions (HxWxD): in (mm)	31x21x16 (780x530x405)	31x21x16 (780x530x405)	31x21x16 (780x530x405)	31x39x16 (780x1000x405)
Dry Weight lbs (kg)	88 (40)	88 (40)	88 (40)	161 (73)
Water	RO or DI	RO or DI	RO or DI	RO or DI
Power (KW)	0.3	0.3	0.7	1.3
Voltage/Frequency/ph	110-240V / 50-60 Hz /1ph	110-240V / 50-60 Hz /1ph	110-240V / 50-60 Hz /1ph	110-240V / 50-60 Hz /1ph
Control	±1%	±1%	±1%	±1%

**Applications**

- Data centers
- Printing
- Textile
- Greenhouses
- Storage facilities
- Wine cellars