



High-pressure humidification systems

Prima Air high-pressure humidifier

Prima Air is the leading supplier of innovative industrial humidifiers for a variety of industries. Our patented humidification systems can provide any room with the desired humid climate.







Number of rooms Room volume

Capacity liter water /

Number of (Smart) Airjets

Pump unit 'Easy'

up to 10.000 m³

95

2-4

Pump unit 'Compact'

up to 25.000 m³

180

4-8

Pump unit 'Advanced'

25.000 m³+

600

8-50



Low-maintenance

Very little service and maintenance required.



Energy-efficient

Low energy consumption and high capacity.



Multiple rooms

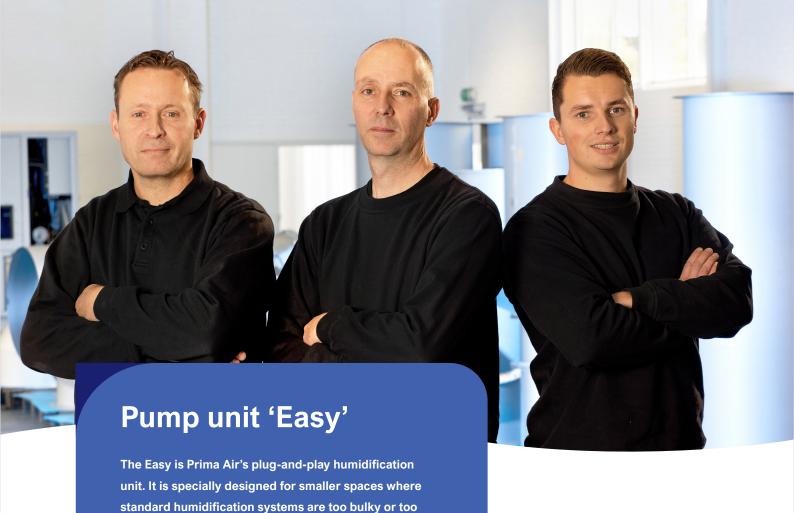
One control unit can humidify multiple rooms.

Our solution for air humidification

High-pressure humidification is the most powerful and energy-efficient method of humidification in the industrial sector. PrimaAir industrial humidifiers contain a high-pressure pump that transports water to the Airjets that are placed in the room.



The Airjets atomise the water through the nozzles and the built-in fan ensures homogeneous distribution of the humidified air. The water droplets in the mist are smaller than 5 microns thanks to the specially designed high-pressure humidifier and nozzles.



Plug-and-play system

of water per hour.

Small and powerful system

Frequency controlled pump

High humidification efficiency

Display for temperature and humidity values

Simple operation

Energy efficient due to the 0.55 kW electric motor

expensive. The Easy has a maximum capacity of 95 liters

Easy to install and expand

Lightweight and easy to move

Integrated legionella protection system

Specifications

The pump unit comes standard equipped with a highpressure pump, frequency controller, pressure sensor, switch box, filter, solenoid valve and hour meter.

High-pressure pump: Type 012051

Power: 0.55 kW
Capacity: 1.6 l/m
Pressure: Max. 70 bar



Pump unit 'Compact'

The Prima Air Compact is suitable for humidifying two to three rooms separately. It has a maximum capacity of 180 liters of water per hour. This is distributed over two to three groups.

Compact system for two to three rooms

High humidification efficiency

Frequency controlled pump

Suitable for several groups

Display for temperature and humidity values per group

Simple operation

Advanced options with touch screen

Energy efficient due to the 1.1 kW electric motor

Easy to install and expand

Operation and readout via company network possible

Integrated legionella protection system

Specifications

The pump unit comes standard equipped with a highpressure pump, frequency controller, pressure sensor, switch box, filter, solenoid valve and hour meter.

High-pressure pump: High-pressure

plunger pump

Power: 1.1 kW
Capacity: 3.3 l/m
Pressure: Max. 70 bar





Pump unit 'Advanced'

The Prima Air pump unit Advanced is suitable for humidifying up to eight rooms individually. The Advanced pump unit has a maximum capacity of 600 liters per hour. This is distributed over the rooms.

Powerful system up to a maximum of eight rooms

High humidification efficiency

Display for temperature and humidity values per group

Simple operation

Advanced options with touch screen

Energy efficient due to the 3.0 kW electric motor

Easy to install and expand

Operation and readout via company network possible

Data logging via HMI and network possible

Equipped with water softener

External alarm transmission

The number of Airjets and groups can always be expanded without replacing the pump unit

Integrated legionella protection system



Specifications

The pump unit comes standard equipped with a highpressure pump, frequency controller, pressure sensor, switch box, filter, solenoid valve and hour meter.

High-pressure pump: Electromotor type 010370

Power: 3.0 kW
Capacity: 10 l/m
Pressure: Max. 80 bar



Airjet

The Airjet connects to the pump unit and is equipped with nozzles that atomize the water under high pressure into a fine mist. The Airjet is equipped with six nozzles that together provide 360° distribution.



The unique Prima Air system

Extremely fine atomization, droplet smaller than 5 microns

Anti-drip adapter prevents dripping

Ability to blow in any direction

Insensitive to the quality of the supply water

Low maintenance nozzles made of stainless steel

No expensive compressed air needed

Energy efficient

Very quiet

Easy to assemble

System easily expandable at any time

Mounting

The Airjet is attached to the ceiling by chains. These should be suspended at a minimum height of 3.5 meters and have a minimum clearance of 0.7 meters at the top. The Airjet must have a free discharge area of 3 meters radius.

Specifications

Type: 010005

Nozzles: Ring with 6 nozzles
Air flow rate: 1,800 m³/hour
Humidification capacity: 15-36 liters/hour

Working pressure: 70 bar

Dimensions (WxH): 580 x 375 mm

Noise: 65 dBA

Connection: 10mm cutting

ring coupling

 Voltage:
 230 V

 Power
 105 W

 Current:
 0.61 A

 Frequency:
 50 Hz





Smart Airjet (Trio)

The Smart Airjet (Trio) connects to the pump unit and is equipped with nozzles that atomize the water under high pressure into a fine mist. The Smart Airjet (Trio) is equipped with two or three air nozzles with the nozzles attached. These can be adjusted in any direction for optimal humidification.

Specifications

Type: 015000

Nozzles: 2-3x mouth + nozzle

Air flow rate: 140 m³/hour Humidification capacity: 3-15 liters/hour

Working pressure: 70 bar

Dimensions: (WxH): 400 x 430-450 mm

Noise: 44 dBA

Connection: 10mm cutting

ring coupling

 Voltage:
 230 V

 Power:
 43 W

 Current:
 0.3 A

 Frequency:
 50 Hz

The unique Prima Air system

Extremely fine atomization, droplet smaller than 5 microns

Anti-drip adapter prevents dripping

Ability to blow in any direction

Insensitive to the quality of the supply water

Nozzles of durable stainless steel

No expensive compressed air needed

Energy efficient

Very quiet

Easy to assemble

System easily expandable at any time

Mounting

The Smart Airjet (Trio) is attached to the wall with a bracket. It must be hung at a height of at least 2.5 meters and have a clearance of 0.7 meters at the top. In addition, the nozzles must be directed so that they have a minimum discharge distance of 3 meters.



UVC disinfection system

With regards to legionella, no risk should be taken. All Prima Air humidification installations are equipped with a standard legionella protection system, which operates when the humidification installation is switched on. In case the installation is switched off for a period of time or to enhance the protection, a UVC disinfection system can be installed.

Additional protection against legionella

Highly effective

Fast and safe

Environmentally friendly

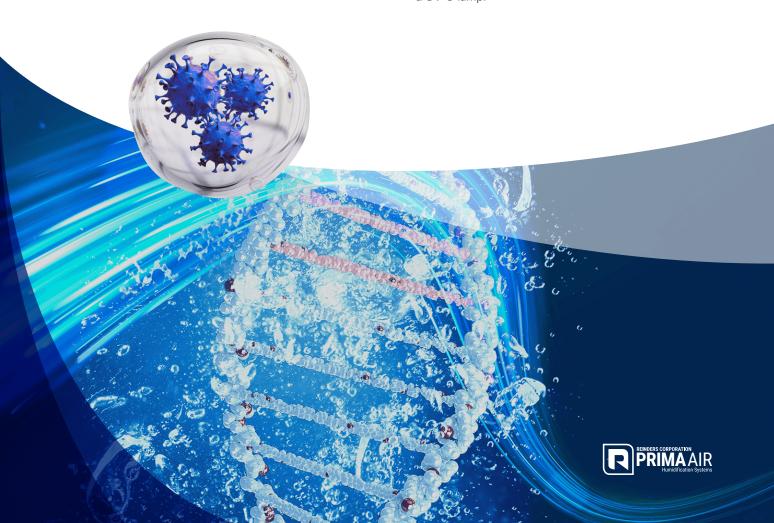
Economical

UV-C radiation is very suitable for disinfecting liquids. Due to the high energy of UV-C radiation, the DNA of living legionella microorganisms becomes illegible, resulting in the death of the cell.



Besides killing off microorganisms, the water does not undergo any chemical or physical reaction. Factors such as taste, odor, color and pH level remain unchanged, unlike with many other methods.

Prima Air's humidification system can be expanded to include a UVC disinfection system. The UVC disinfection system is fully integrated into our pump unit and includes a UV-C lamp.





Prima Air Reinders Corporation

Prima Air is a proud member of Reinders Corporation. A private company in the 4th generation, operating in more than 100 countries across six continents. Since 1910, the name Reinders has come to be associated with a reputation for excellence in air and climate solutions worldwide.

Interested or questions?

Get in touch with us. The experts of Prima Air are at your service!

Prima Air

Plesmanweg 17
7602 PD Almelo
The Netherlands
+31 546 876 510
primaair@reinderscorp.com
www.reinderscorp.com

