



ULTRASONIC HUMIDIFIERS

Ultrafine mist for low energy humidification



Humidification, Dehumidification
and Evaporative Cooling

 **condair**



In-duct NKBD ultrasonic humidifiers



The NKBD series is constructed from hygienic and long-lasting stainless steel. Multiple units can be interconnected to form humidification groups for greater output and control.

The units have connections for standard control signals and a hygrostat. An optional PCB control board is available that enables the output of fault and status messages.

NKBD models incorporate protection against dry running, overheating, overflow and over-voltage.

Adjustable mounting racks accommodate the NKBD humidifier when installed in the duct.



ULTRASONIC HUMIDIFIERS

Low energy humidification and evaporative cooling

Direct room RBP ultrasonic humidifiers



These humidifiers offer humidity control for small areas where no centralised air ventilation system is available. They can be free-standing or wall-mounted.

Control can be either on/off, two-stage or fully modulating, with the possibility to connect a hygrostat or standard control signals.

RBP humidifiers have removable stainless steel covers and incorporate protection against dry running, overheating, overflow and over-voltage. Cross flow fans provide a high airflow rate and intake air is filtered with a washable coarse air filter.

Optional stainless steel wall-mounted leak tray



Optional stainless steel wall-mounted brackets

Direct room Universal (UB) humidifiers



Standard



Integrated controller



Wall-mounted, stainless steel leak tray

This direct room humidifier has several options for flexible operation. In addition to the standard model, it is offered with an integrated controller that will accept a signal from an external sensor (not supplied), a double fan option for applications that need a greater airflow, and a combination of both.

All models incorporate AquaDrain technology to flush and drain the water inlet pipe and water tank, either routinely or as programmed.

Ultrasonic humidifiers offer low energy humidification, efficient performance and very compact design.

A rapidly oscillating diaphragm submerged in water creates a fine mist, with droplets as small as 1 micron, which are rapidly absorbed by the air.

All ultrasonic humidifiers in the Condaire range offer flush and drain features to ensure hygienic operation.

Water treatment



To prevent issues with lime scale build-up, the water supply for ultrasonic humidification must be demineralised with a quality of 5- 20µS/cm. Condair offers a complete range of suitable water filters, interconnecting pipework and push-fit adaptors.

For technical data and selection advice on water treatment systems, please contact your local sales organization.



In-duct NKBD humidifier technical data

Model	Max. output (kg/h)	Weight (kg)	Voltage (V/Hz)	Power consumption (VA)	Dimensions HxWxD (mm)
NKBD-6/3.1	3.6	6.0	48 / 50-60	185	241 x 286 x 288
NKBD-12/3.1	7.2	7.7		375	241 x 436 x 288
NKBD-18/3.1	10.8	9.5		555	241 x 586 x 288
NKBD-24/3.1	14.4	11.7		735	241 x 736 x 288
NKBD-30/3.1	18.0	13.7		915	241 x 886 x 288
NKBD-36/3.1	21.6	15.2		1095	241 x 1036 x 288
NKBD-42/3.1	25.2	17.2		1275	241 x 1186 x 288

Direct air RBP humidifier technical data

Model	Max. output (kg/h)	Weight (kg)	Voltage (V/Hz)	Power consumption (VA)	Dimensions HxWxD (mm)
RB/P-D2/3.1	1.0	7	48 / 50-60	110	176 x 444 x 290
RB/P-D4/3.1	2.0	9		180	176 x 553 x 290
RB/P-D6/3.1	3.0	11		240	176 x 643 x 290
RB/P-D8/3.1	4.0	13		310	176 x 733 x 290
RB/P-D10/3.1	5.0	15		360	176 x 823 x 290
RB/P-D16/3.1	8.0	21		650	176 x 1093 x 290

Direct air Universal (UB) humidifier technical data

Model	Type	Max. output (kg/h)	Weight (kg)	Voltage (V/Hz)	Power consumption (VA)	Dimensions HxWxD (mm)
UB-1/3.1	Standard	0.5	7.3	230 / 50-60	100	205 x 338 x 261
UB-2/3.1		1.0	7.4		130	
UB-3/3.1		1.5	7.5		160	
UB-4/3.1		2.0	7.6		190	
UB-1/3.1/CT	Integrated controller	0.5	7.7	230 / 50-60	100	205 x 338 x 261
UB-2/3.1/CT		1.0	7.8		130	
UB-3/3.1/CT		1.5	7.9		160	
UB-4/3.1/CT		2.0	8.0		190	