

11. GENERAL FEATURES AND MODELS

11.1 Ultrasonic humidifier models and electrical specifications

The table below summarises the electrical data (power supply voltages) of the various models, as well as their functional characteristics. Note that some models can be powered at different voltages, obviously with different current and atomised water production values.

model	Humidity production ^(2,3) (kg/h)	Power ⁽²⁾ (W)	Power supply		Current ⁽²⁾ (A) Vac power supply	Current ⁽²⁾ (A) 48 Vdc power supply
			Panel P/N * = B, D (B = "Slave", C = "Master")	Voltage ⁽¹⁾ (V – type)		
UU02D%	2.4	210	UQ05*D0000	230	0.7	3.2
		210	UQ05*10000	110	1.5	3.2
UU05D%	4.8	350	UQ05*D0000	230	1.3	6.4
		350	UQ05*10000	110	2.7	6.4
UU07D%	7.2	500	UQ09*D0000	230	2	9.6
		500	UQ09*10000	110	4	9.6
UU09D%	9.6	650	UQ09*D0000	230	2.6	12.8
		650	UQ09*10000	110	5.5	12.8
UU14D%	14.4	950	UQ18*D0000	230	4	19.2
		950	UQ18*10000	110	8.2	19.2
UU18D%	18	1150	UQ18*D0000	230	4.7	24
		1150	UQ18*10000	110	10	24

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(1) tolerance allowed on rated mains voltage: -15%, +10%;

(2) tolerance on rated values: +5%, -10% (EN 60335-1);

(3) max rated instant atomised water production: average atomised water production may be affected by external factors, such as: ambient temperature, water quality, distribution system.



Important: to avoid interference, keep power cables separate from probe cables.

11.2 Cable cross-section

See par. "Connection cable sizing: humidifier – electrical panel".

11.3 Technical specifications

Model	UU02D%	UU05D%	UU07D%	UU09D%	UU14D%	UU18D%
Flow-rate l/h	2.4	4.8	7.2	9.6	14.4	18
No. of transducers	4	8	12	16	24	30
Rated power (W)	180	330	480	600	1100	1100
Application	duct					
Feedwater pressure	1 to 6 bars					
Feedwater temperature (°C)	5 to 40					
Ingress protection	IP20					

Electronic controller

Auxiliary voltage / frequency (V/ Hz)	24V/50 – 60 Hz
Maximum auxiliary power (VA)	3
Probe inputs (general features)	Can be selected for these signals: 0-1V, 0-5V, NTC low temperature: 10 kΩ at 25°C, -50T90 °C;
Power supply to active probes (general features)	21Vdc, max 150 mA
Relay outputs (general features for "Master" panel)	EN60730-1: NA 1(1)A 250 Vac cos phi = 0.4; 100,000 cycles UL-873: NO 1 A resistive 24 Vac, 30 Vdc, 100,000 cycles/PILOT DUTY: 24 Vac, peak 15A, continuous 1A 30,000 cycles
Alarm relay output (general features for "Slave" panel)	24 V (max 3 W)
Digital inputs (general features)	Voltage-free contact. Max resistance 100 Ω; max 5 Vdc open, 7 mA closed
Analogue outputs (general features for "Master" panel)	0 to 10V Maximum load 2 kΩ (5 mA) Precision ±3 % of full scale

Environmental conditions

Ambient operating temperature °C (°F)	1 to 40 (33.8 to 104)
Ambient operating humidity (% rH)	10 to 60

Tab. 11.b