Zephyr

Immersed electrode humidifiers



Versatile Compact stand-alone unit suitable for many

Compact stand-alone unit suitable for many applications



140

Energy efficiency

Boilers, linear distributors and steam blowers available with reduced thermal transmittance



Saves water

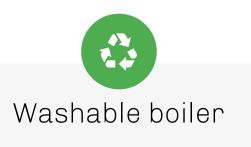
The operation algorithm ensures only the amount of steam required is produced, optimising water consumption



Accurate

The new operation algorithm, together with a wide variety of boilers, ensures precision control, irrespective of the characteristics of the water





20,000 hours of operation*

5 times less plastic at end of life

* This figure refers to the durability of the engineering plastic over time, when the right type of water is used and maintenance carried out correctly



The overflow system protects against boiler overpressure and its value can be modified on request with an optional kit



Pump-driven draining system which breaks the limescale deposit into small pieces for easy ejection



Automatic boiler cleaning system



Protection against water escaping on the steam side



Boiler circuit and polymeric parts of the linear steam distributors are in self-extinguishing material



No mechanical obstructions on the steam side and drain side



Mechanical parts designed to simplify use and maintenance



Connection for RS-485 protocol for remote control in MODBUS mode

Ideal for the following applications



Residential and commercial environments



Turkish baths, fitness centres, beauty centres



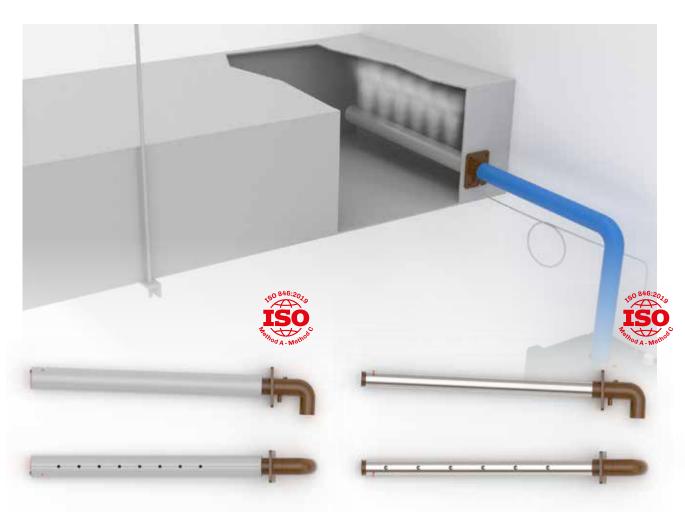
Museums, art galleries, churches and archives



Bakeries



Data centres



Extruded linear distributor with reduced thermal transmittance

The surface in non-porous, waterproof engineering plastic prevents bacterial proliferation and complies with Method A and Method C of ISO846. It withstands sudden changes in temperature and chemicals, thus making it easy to sterilise.

Stainless steel linear distributor

Stainless steel is a very hygienic material as it is corrosion resistant and its surface is compact and non-porous, making removing bacteria during cleaning and sterilisation easier.



Steam blower for room

This steam blower, which delivers steam directly into the room, is made of engineering plastic which prevents bacterial contamination and withstands chemical attack. Thanks to its thermal insulation, it is also energy efficient. The blower can be fitted directly onto the humidifier or placed in the room, according to the manufacturer's instructions, using a special mobile support.



Wellness Series

- Can manage 3 different fragrances
- Controls fan for steam inlet and extraction
- Cubicle light management
- Cubicle sanitation management
- Pre-heating function for rapid steam production
- Humidity is programmed in time bands or set manually with a timer

OEM Series

- Solution with support and boiler available in different sizes + electronic controller and current transformer (both to be ordered separately)
- The space-saving design is ideal for proofers, ovens, CMV units and precision or close control air conditioners in data centres
- A highly adaptable solution, as OEMs can configure their own humidity production capacity and power supply voltage
- Electronic controller with an open frame board which can be housed in the electrical panel



EHKT models and technical features



ЕНКТ	003M2	005M2	003T4	003T5	005T4	005T5	010T4	010T5	015T4	015T5	
STEAM PRODUCTION											
Production capacity [kg/h]	3	5	3		5		10		1	5	
Maximum pressure [mm H ₂ 0/Pa/bar]		165/1650/0.0165									
Pipe connection external diameter [mm]		38									
STEAM DISTRIBUTION											
Number of linear distributors that can be connected [n]		1									
Number of steam blowers that can be connected [n]						1					
ELECTRICAL PROPERTIES											
Power consumption [kW]	2.2	3.75	2	.2	3.	75	7	.5	11	L.3	
Power supply [Vac, Hz]		30, /60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	
Phases [n]	1	1	:	3	:	3	:	3	3		
Current per phase [A]	9.6	16.3	3.2	2.8	5.4	4.7	10.8	9.4	16.3	14.2	
WATER PROPERTIES											
Inlet water quality	Complies with microbiological standards for drinking water established by regulations in force where installed. Partially demineralised water may be used								ons		
Inlet water conductivity [µS*cm]					70	1250					
Inlet water hardness [°f]					5	.50					
Inlet water pressure [MPa/bar]					0.21	/210					
Minimum instantaneous flow rate of inlet water [l/min]			1	.2				2	.2		
Inlet water connection					M 3/4	4" GAS					
Water drain external dimensions [mm]					4	0					
GENERAL CHARACTERISTICS											
Dimensions [mm]					412x7	66x248					
Operating conditions [°C, RH]				140,	max. 80%	non-cond	ensing				
Storage conditions [°C, RH]				-1070), max. 959	% non-con	densing				
Degree of protection		IP20									
REGULATION											
Type of controller			E	Built-in wit	h simplifie	ed EV3 use	r interfac	e			
Command signal		ON-OFF, proportional 010 V, transducer 010 V/420 mA									
CONNECTIVITY											
RS-485 MODBUS	Built-in										

EHKT models and technical features



ЕНКТ	020T4	020T5	030T4	030T5	040T4	040T5	060T4	060T5			
STEAM PRODUCTION											
Production capacity [kg/h]	20 30 40 60										
Maximum pressure [mm H ₂ 0/Pa/bar]		200/2000/0.020									
Pipe connection external diameter [mm]		38									
STEAM DISTRIBUTION											
Number of linear distributors that can be connected [n]				1				2			
Number of steam blowers that can be connected [n]		:	2				-				
ELECTRICAL PROPERTIES											
Power consumption [kW]	1	5	22	2.5	3	80	4	5			
Power supply [Vac, Hz]	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60			
Phases [n]	3	3	3	3	3	3	3	3			
Current per phase [A]	21.7	18.8	32.5	28.2	43.3	37.7	65	56.5			
WATER PROPERTIES											
Inlet water quality	Complies with microbiological standards for drinking water established by regulations in force where installed. Partially demineralised water may be used										
Inlet water conductivity [µS*cm]				70	1250						
Inlet water hardness [°f]				5	.50						
Inlet water pressure [MPa/bar]				0.21	/210						
Minimum instantaneous flow rate of inlet water [l/min]	3.5 2x3.5							3.5			
Inlet water connection				M 3/4	4" GAS						
Water drain external dimensions [mm]				4	0						
GENERAL CHARACTERISTICS											
Dimensions [mm]	522x893x380 928x900x375										
Operating conditions [°C, RH]	140, max. 80% non-condensing										
Storage conditions [°C, RH]			-10	.70, max. 959	% non-conde	nsing					
Degree of protection				IP	20						
REGULATION											
Type of controller	Built-in with simplified EV3 user interface										
Command signal	ON-OFF, proportional 010 V, transducer 010 V/420 mA										
CONNECTIVITY											
RS-485 MODBUS	Built-in										

ELSTEAM - Humidifiers

EHKX models and technical features



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ЕНКХ	003M2	005M2	003T4	003T5	005T4	005T5	010T4	010T5	015T4	015T5
STEAM PRODUCTION										
Production capacity [kg/h]	3	3 5 3 5 10 15								
Maximum pressure [mm H ₂ O/Pa/bar]		165/1650/0.0165								
Pipe connection external diameter [mm]					Э	8				
STEAM DISTRIBUTION										
Number of linear distribu- tors that can be connected [n]		1								
Number of steam blowers that can be connected [n]						1				
ELECTRICAL PROPERTIES										
Power consumption [kW]	2.2	3.75	2	.2	3.	75	7	.5	11	1.3
Power supply [Vac, Hz]	23 50,		400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60
Phases [n]	1	L				3	3			
Current per phase [A]	9.6	16.3	3.2	2.8	5.4	4.7	10.8	9.4	16.3	14.2
WATER PROPERTIES										
Inlet water quality		Complies with microbiological standards for drinking water established by regulations in force where installed. Partially demineralised water may be used								
Inlet water conductivity [µS*cm]		701250								
Inlet water hardness [°f]					5	.50				
Inlet water pressure [MPa/bar]					0.21	/210				
Minimum instantaneous flow rate of inlet water [l/ min]			1	.2				2	.2	
Inlet water connection					M 3/4	4" GAS				
Water drain external dimen- sions [mm]					4	10				
GENERAL CHARACTERISTICS										
Dimensions [mm]					412x7	66x248				
Operating conditions [°C, RH]				140), max. 80%	non-conder	nsing			
Storage conditions [°C, RH]	-1070, max. 95% non-condensing									
Degree of protection					IP	20				
REGULATION										
Type of controller	Built-in with advanced EPcolor user interface									
Command signal	ON-OFF, proportional 010 V, transducer 010 V/420 mA									
CONNECTIVITY										
RS-485 MODBUS					Bui	lt-in				
	Sant in									

EHKX models and technical features



ЕНКХ	020T4	020T5	030T4	030T5	040T4	040T5	060T4	060T5	080T4	080T5	100T4	100T8
STEAM PRODUCTION												
Production capacity [kg/h]	2	20 30 40 60 80 100									00	
Maximum pressure [mm H ₂ 0/Pa/bar]		200/2000/0.020										
Pipe connection external diameter [mm]						3	8					
STEAM DISTRIBUTION												
Number of linear distribu- tors that can be connected [n]		1 2										
Number of steam blowers that can be connected [n]		2	2									
ELECTRICAL PROPERTIES												
Power consumption [kW]	1	5	22	2.5	3	0	4	5	6	0	75	
Power supply [Vac, Hz]	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/60	400, 50/60	460, 50/6
Phases [n]						;	3					
Current per phase [A]	21.7	18.8	32.5	28.2	43.3	37.7	65	56.5	86.6	75.3	108.3	94.1
WATER PROPERTIES												
Inlet water quality	Complies with microbiological standards for drinking water established by regulations in force where installed. Partially demineralised water may be used											
Inlet water conductivity [µS*cm]		701250										
Inlet water hardness [°f]		550										
Inlet water pressure [MPa/bar]						0.21	/210					
Minimum instantaneous flow rate of inlet water [l/ min]	3.5 2x3.5											
Inlet water connection						M 3/4	4" GAS					
Water drain external dimen- sions [mm]						4	0					
GENERAL CHARACTERISTICS												
Dimensions [mm]			522x8	93x380					928x90	00x375		
Operating conditions [°C, RH]					140,	max. 80%	non-cond	lensing				
Storage conditions [°C, RH]	-1070, max. 95% non-condensing											
Degree of protection						IP	20					
REGULATION												
Type of controller		Built-in with advanced EPcolor user interface										
Command signal		ON-OFF, proportional 010 V, transducer 010 V/420 mA										
CONNECTIVITY												
		Built-in										

ELSTEAM - Humidifiers

EHKW models and technical features



EHKW	005M2	005T4	010T4	015T4				
STEAM PRODUCTION								
Production capacity [kg/h]	5	5	10	15				
Maximum pressure [mm H ₂ 0/Pa/bar]	165/1650/0.0165							
Pipe connection external diameter [mm]	38							
STEAM DISTRIBUTION								
Number of linear distributors that can be connec- ted [n]		1	L					
Number of steam blowers that can be connected [n]		1	L					
ELECTRICAL PROPERTIES								
Power consumption [kW]	3.75	3.75	7.5	11.3				
Power supply [Vac, Hz]	230, 50/60	400, 50/60	400, 50/60	400, 50/60				
Phases [n]	1		3					
Current per phase [A]	16.3	5.4	10.8	16.3				
WATER PROPERTIES								
Inlet water quality	Complies with microbiological standards for drinking water established by regulatio in force where installed. Partially demineralised water may be used							
Inlet water conductivity [µS*cm]		70	1250					
Inlet water hardness [°f]		5	50					
Inlet water pressure [MPa/bar]		0.21,	/210					
Minimum instantaneous flow rate of inlet water [l/min]	1.	2	2.	2				
Inlet water connection		M 3/4	I" GAS					
Water drain external dimensions [mm]		4	0					
GENERAL CHARACTERISTICS								
Dimensions [mm]		412x76	6x248					
Operating conditions [°C, RH]		140, max. 80%	non-condensing					
Storage conditions [°C, RH]	-1070, max. 95% non-condensing							
Degree of protection	IP20							
REGULATION								
Type of controller	E	Built-in with advanced	EPcolor user interface					
Command signal	ON-OFF	, proportional 010 V,	transducer 010 V/4	20 mA				
CONNECTIVITY								

EHKW models and technical features



ЕНКХ	020T4	030T4	040T4			
STEAM PRODUCTION						
Production capacity [kg/h]	20	30	40			
Maximum pressure [mm H ₂ 0/Pa/bar]		200/2000/0.020				
Pipe connection external diameter [mm]		38				
STEAM DISTRIBUTION						
Number of linear distributors that can be connec- ted [n]		1				
Number of steam blowers that can be connected [n]	2	2	-			
ELECTRICAL PROPERTIES						
Power consumption [kW]	15	22.5	30			
Power supply [Vac, Hz]		400, 50/60				
Phases [n]		3				
Current per phase [A]	21.7	32.5	43.3			
WATER PROPERTIES						
Inlet water quality	Complies with microbiological standards for drinking water established by regulation in force where installed. Partially demineralised water may be used					
Inlet water conductivity [µS*cm]	701250					
Inlet water hardness [°f]	550					
Inlet water pressure [MPa/bar]	0.21/210					
Minimum instantaneous flow rate of inlet water [l/min]	2.2					
Inlet water connection	M 3/4" GAS					
Water drain external dimensions [mm]		40				
GENERAL CHARACTERISTICS						
Dimensions [mm]	522x893x380					
Operating conditions [°C, RH]	140, max. 80% non-condensing					
Storage conditions [°C, RH]	-1070, max. 95% non-condensing					
Degree of protection	IP20					
REGULATION						
Type of controller	Built-in	with advanced EPcolor user in	terface			
Command signal	ON-OFF, proportional 010 V, transducer 010 V/420 mA					
CONNECTIVITY						
RS-485 MODBUS		Built-in				