

TOPIZ

heat exchangers



AGRO
FAN HEATERS
CATALOGUE



heat exchangers

TOPIZ is manufacturer of heat exchangers, fan heaters, evaporators, and condensers, based in Belgrade, Serbia.

Since our founding in 1994, we have continuously evolved, establishing a reputation for high-quality products, reliability, and a competent approach.

This has enabled us to remain competitive in the global market.



TOP AGRO LT

About AGRO LT

TOP AGRO fan heaters are designed for use in livestock environments. The heat exchanger is produced with reinforced aluminum fins, featuring increased space between them. These units are specifically adapted for environments with high ammonia concentrations, such as poultry and pig farms.

- Demountable unit for easy cleaning and maintenance.
- Fan with IP 55 or IP 65 protection class.
- Even and effective air distribution through the entire object.
- Equipped with an air vent and drain valve.
- Reduces humidity levels in farms.
- 2 models in stock, with different air diffusers.
- Heating capacity: 4,7-51,6 kW.
- Air flow: 4700-5100 m³/h.
- Range: 12 m.

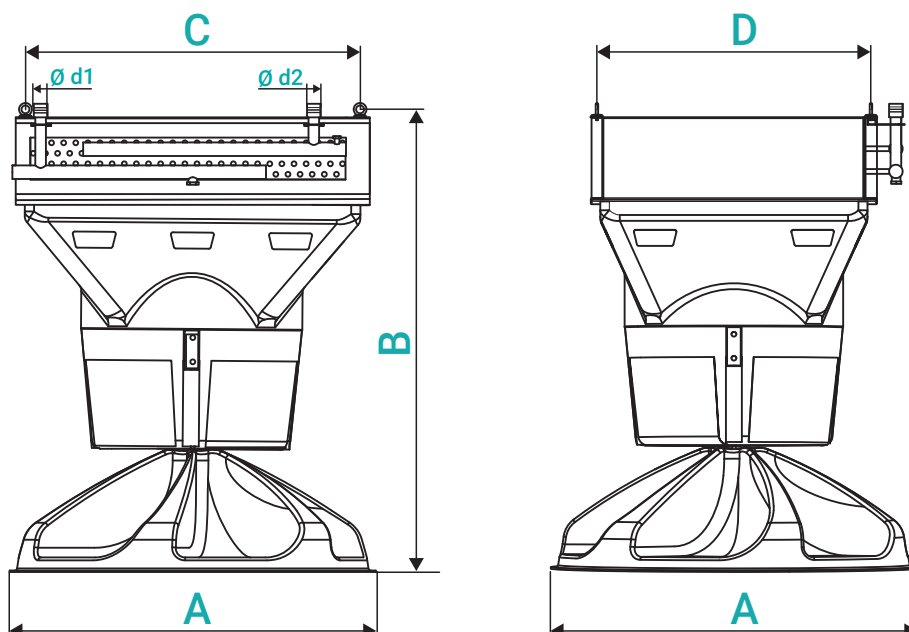
TECHNICAL DATA

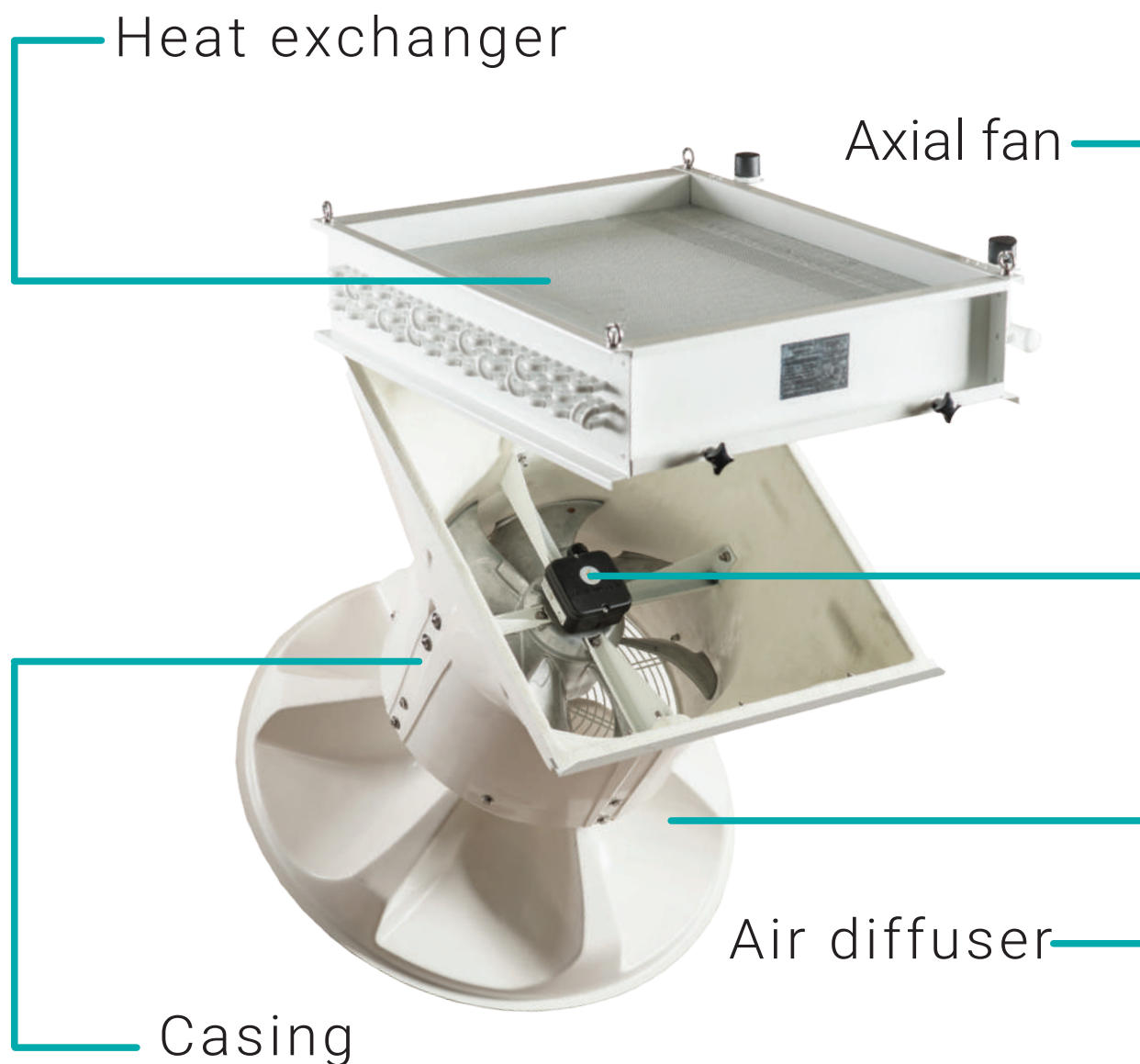
TOP AGRO LT

MODEL		TOP AGRO LT-3R					TOP AGRO LT-4R			
Air flow		5100 m ³ /h					4700 m ³ /h			
Water temp.	TuL [°C]	Q [kW]	Tiz [°C]	Δp [kPa]	qw[m ³ /h]	Q [kW]	Tiz [°C]	Δp [kPa]	qw[m ³ /h]	
70/50°C	15	28,3	31,5	7,3	1,3	34,3	36,2	6,5	1,5	
	20	25,1	34,6	5,7	1,1	29,9	38,8	5,1	1,3	
	25	21,5	37,6	4,3	0,9	25,6	41,3	3,9	1,1	
	30	17,8	40,6	3,1	0,8	21,2	43,7	2,8	0,9	
	35	14,1	43,5	2,1	0,6	16,8	46,0	1,8	0,7	
80/60°C	15	36,3	35,7	10,6	1,6	43,0	41,6	9,5	1,9	
	20	32,6	38,9	8,8	1,4	38,6	44,3	7,9	1,7	
	25	28,9	42,0	7,1	1,3	34,3	46,9	6,4	1,5	
	30	25,3	45,1	5,6	1,1	29,9	49,4	5,0	1,3	
	35	21,6	48,1	4,3	0,9	25,7	51,9	3,8	1,1	
90/70°C	15	43,6	39,9	14,3	1,9	51,6	47,0	12,9	2,3	
	20	39,9	43,1	12,2	1,8	47,2	49,7	11,0	2,1	
	25	36,2	46,3	10,3	1,6	42,9	52,4	9,3	1,9	
	30	32,6	49,5	8,6	1,4	38,6	55,0	7,7	1,7	
	35	28,9	52,1	6,9	1,3	34,3	57,5	6,2	1,5	

AGRO LT - DIMENSIONS

Model	A	B	C	D	d1	d2
TOP AGRO LT 3R	570	570	415	325	1"	1"
TOP AGRO LT 4R	670	670	440	325	1"	1"





Heat exchanger

Produced with copper tubes Ø10 with wall thickness 0,5 mm and reinforced aluminum fins with an anti-corrosive coating.

Casing

Made of plastic, ensuring long-lasting and efficient operation. The accessibility to the intern components of the unit allows for quick servicing and easy maintenance.

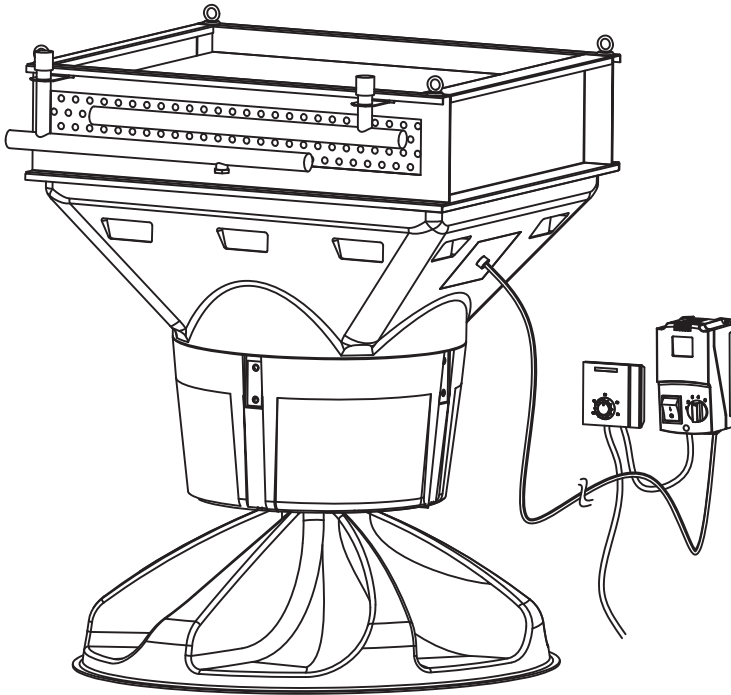
Axial fan

Highly effective single-phase axial fan with IP55 or IP 65 class protection, dust and water-resistant.

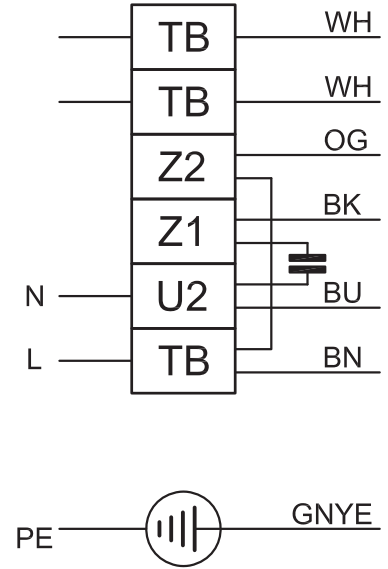
Air diffuser

Ensure even air distribution, providing uniform heat distribution across the entire object. Two types of air diffusers are available.

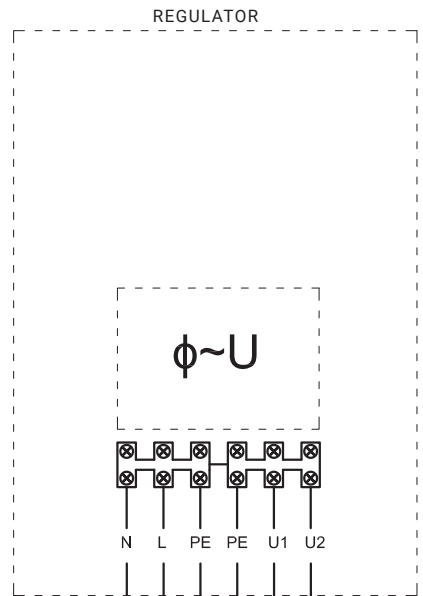
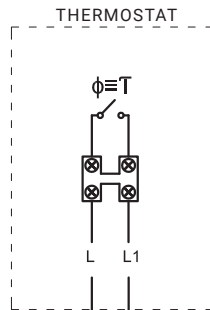
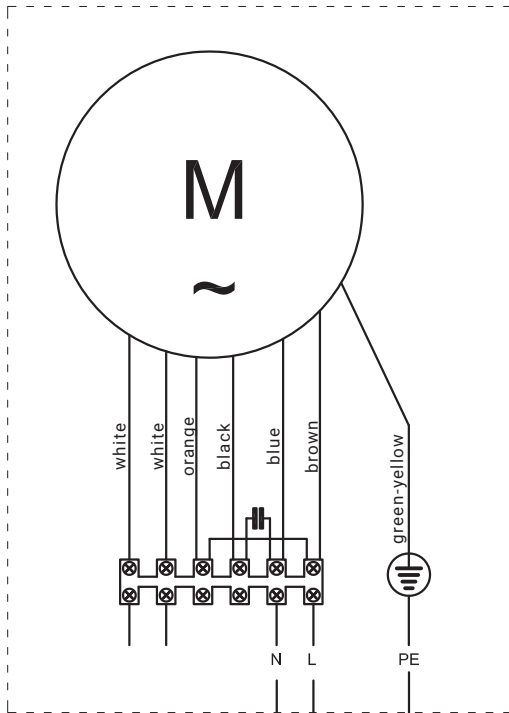
AGRO LT - ELECTRICITY CONNECTION



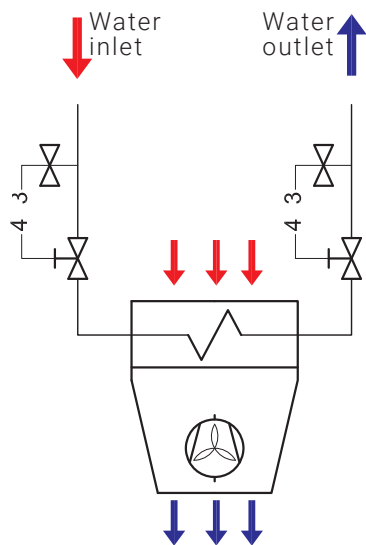
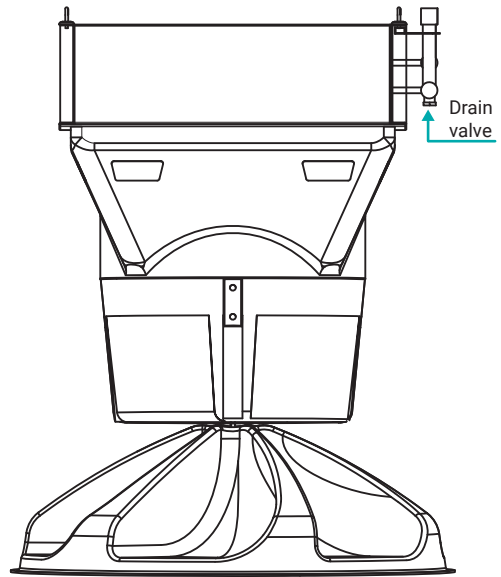
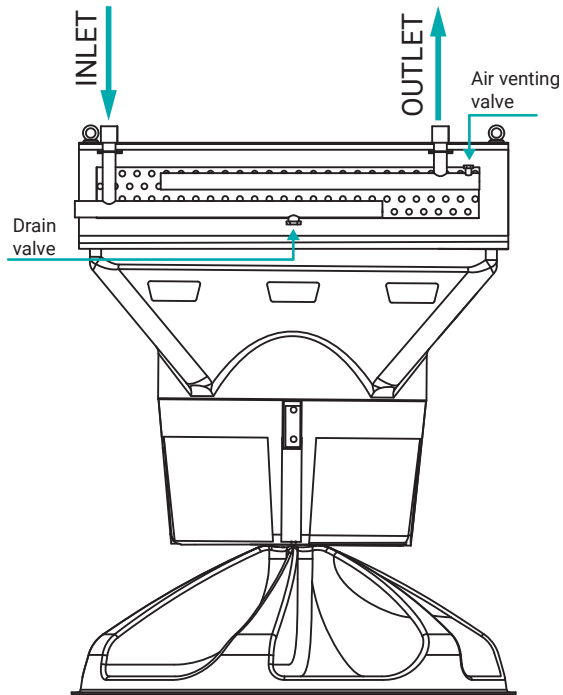
Motor with capacitor and thermal switch



AGRO LT - FAN HEATER



AGRO LT - WATER CONNECTION

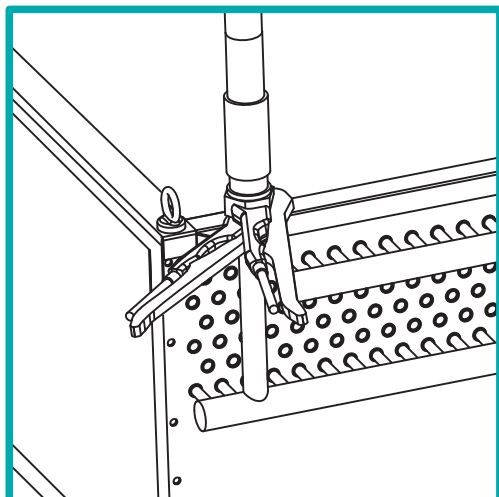


1. Axial fan
2. Heat exchanger
3. Manual discharge valve
4. Ball valve



WARNING!

Place the discharge valve on the lowest point of the water system to facilitate draining when necessary.



WARNING!

When connecting the agro fan heater.



Always use an additional tool for tightening.



Always use protective gloves.

	AGRO LT-3R	AGRO LT-4R
Air flow [m ³ /h]	5100	4700
Fan diameter [Ø]	450	450
Power supply [V/Hz]	240/50	240/50
Max. current [A]	2.35	2.35
Motor speed [rpm]	1400	1400
Max. electrical power [W]	480	480
IP/Insulation class	55/65	55/65
Sound power level [db(A)]	60	60
Max. operating temperature [°C]	60	60
Max. air range [m]	12	12
Max. water temperature [°C]	95	95
Connection ["]	1	1
Weight of unit [kg]	35	40

Selection

The first step is selecting a fan heater with appropriate heating power. The heating power depends on the surface area of the object to be heated, the external temperature conditions, and the type of farm.

Installation

Agro fan heaters should be mounted in the middle of the object, at minimum height of 300 mm from the floor. They are secured to the ceiling with cables and hangers. Hot water is supplied through flexible hoses.

Maintenance

Regular maintenance is crucial for the efficient operation of the system. This includes cleaning the agro fan heaters. The units are designed to be disassembled while suspended, making the cleaning process more convenient and efficient.

Think GREEN

The use of biofuels is environmentally friendly option that reduces carbon dioxide emissions into the atmosphere. Compared to other energy sources, hot water systems powered by biomass or gas can reduce harmful gas emissions, making the farm more sustainable.

Benefits

Agro fan heaters offer numerous benefits, including energy efficiency, even temperature distribution, environmental friendliness and reduced operational costs. This system represents a long-term solution that not only improves the conditions for poultry growth but also helps lower overall costs and increasing farm productivity.



TOP AGRO MULTI LT

About AGRO MULTI LT

AGRO MULTI LT fan heater is designed for larger objects with more demanding working conditions. The heat exchanger is also produced with reinforced aluminum fins and anti-corrosive coating. A different design, a larger heat exchanger and axial fan ensures higher heating capacity.

- Demountable unit for easy cleaning and maintenance.
- Fan with IP 55 or IP 65 protection class.
- Even air distribution in object with six-sided exhaust nozzle air diffuser.
- Equipped with an air vent and drain valve.
- Designed for larger objects, over 15m wide.
- 2 models in stock, with 4 or 6 rows of the heat exchanger.
- Heating capacity: 15,4-100,5 kW.
- Air flow: 6100-6500 m³/h.
- Range: 20 m.

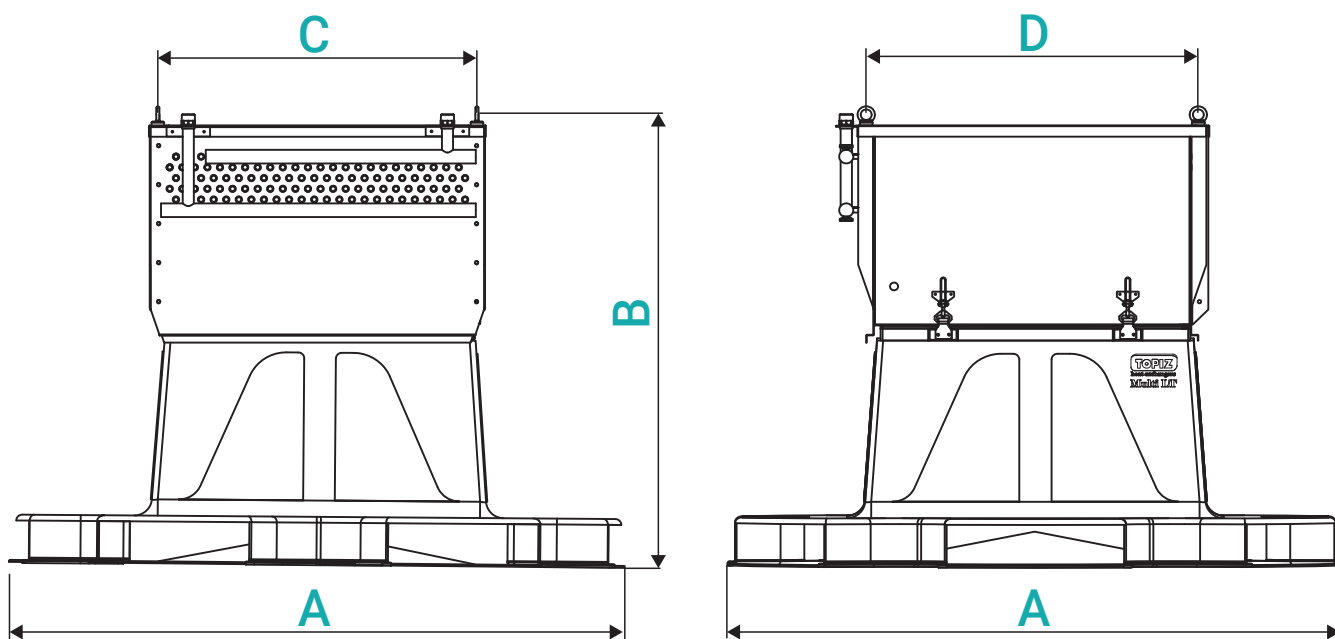
TECHNICAL DATA

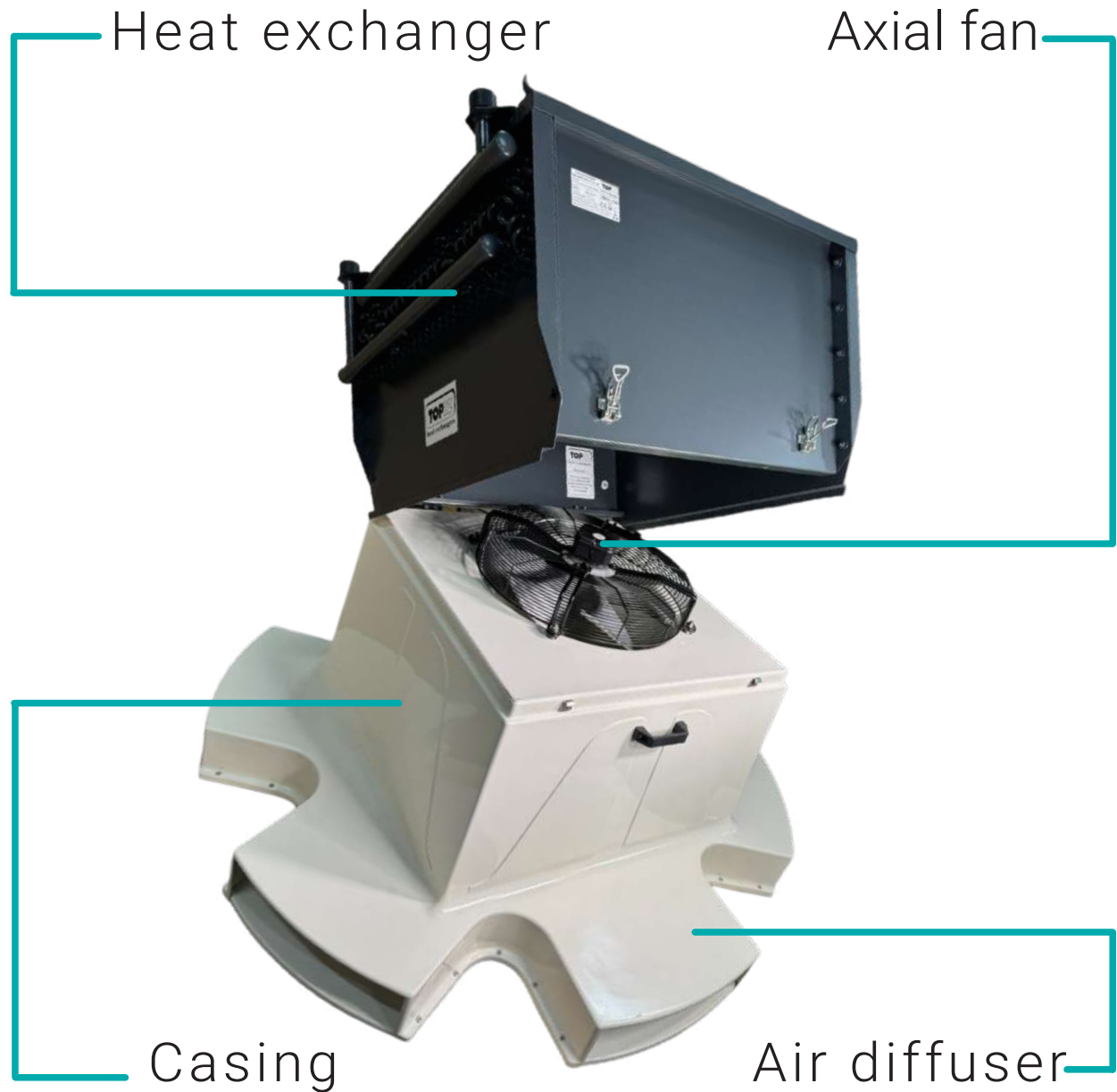
TOP AGRO MULTI LT

MODEL		TOP AGRO MULTI-4R				TOP AGRO MULTI-6R			
Air flow		6500m ³ /h				6100 m ³ /h			
Water temp.	Tul. [°C]	Q [kW]	Tiz [°C]	Δp [kPa]	qw[m ³ /h]	Q [kW]	Tiz [°C]	Δp [kPa]	qw[m ³ /h]
70/50°C	15	55,1	39,6	6,9	2,4	68,0	47,4	6,2	3,0
	20	48,2	41,9	5,4	2,1	59,6	48,8	4,8	2,6
	25	41,3	44,0	4,1	1,8	51,2	50,1	3,7	2,2
	30	34,5	46,1	3,0	1,5	42,8	51,3	2,7	1,9
	35	27,5	48,0	2,0	1,2	34,4	52,3	1,8	1,5
80/60°C	15	68,7	45,7	10,0	3,0	84,4	55,2	8,9	3,7
	20	61,8	48,0	8,2	2,7	75,9	56,7	7,4	3,3
	25	55,0	50,3	6,7	2,4	67,6	58,2	6,0	3,0
	30	48,2	52,5	5,3	2,1	59,4	59,5	4,7	2,6
	35	41,4	54,5	4,0	1,8	51,2	60,7	3,6	2,3
90/70°C	15	82,1	51,7	13,4	3,6	100,5	62,9	12,0	4,4
	20	75,2	54,1	11,5	3,3	92,0	64,5	10,3	4,1
	25	68,4	56,5	9,7	3,0	83,6	66,0	8,6	3,7
	30	61,6	58,7	8,0	2,7	75,4	67,4	7,1	3,3
	35	54,9	60,9	6,5	2,7	67,3	68,8	5,8	3,0

AGRO MULTI - DIMENSIONS

Model	A	B	C	D	d1	d2
TOP AGRO MULT LT 4R	1525	1165	805	800	5/4"	5/4"
TOP AGRO MULTI LT 6R	1525	1165	805	800	5/4"	5/4"





Heat exchanger

Produced with copper tubes Ø12 with wall thickness 0,5 mm and reinforced aluminum fins with anti-corrosive coating.

Casing

Made of plastic, ensuring long-lasting and efficient operation. The accessibility to the intern components of the unit allows for quick servicing and easy maintenance.

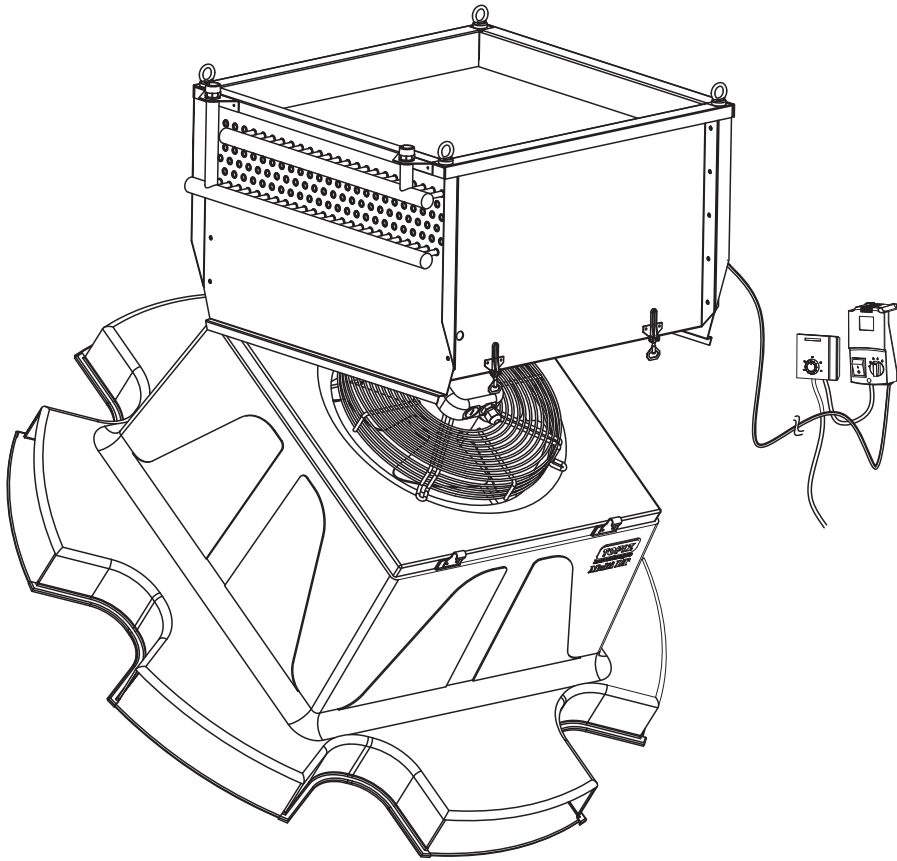
Axial fan

Highly effective single-phase axial fan with IP55 or IP65 class protection, dust and water-resistant.

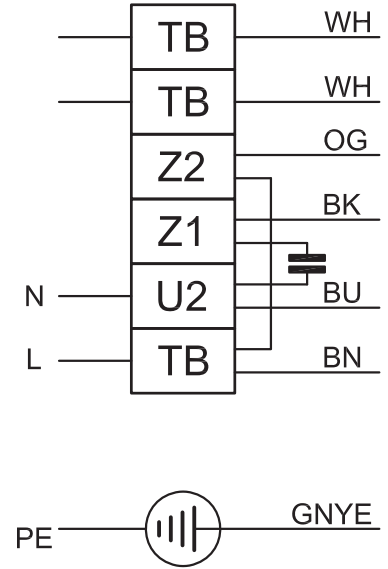
Air diffuser

The six-sided air diffuser ensures even heat distribution in larger objects. In the form of an exhaust nozzle, it covers a range of 20m in diameter.

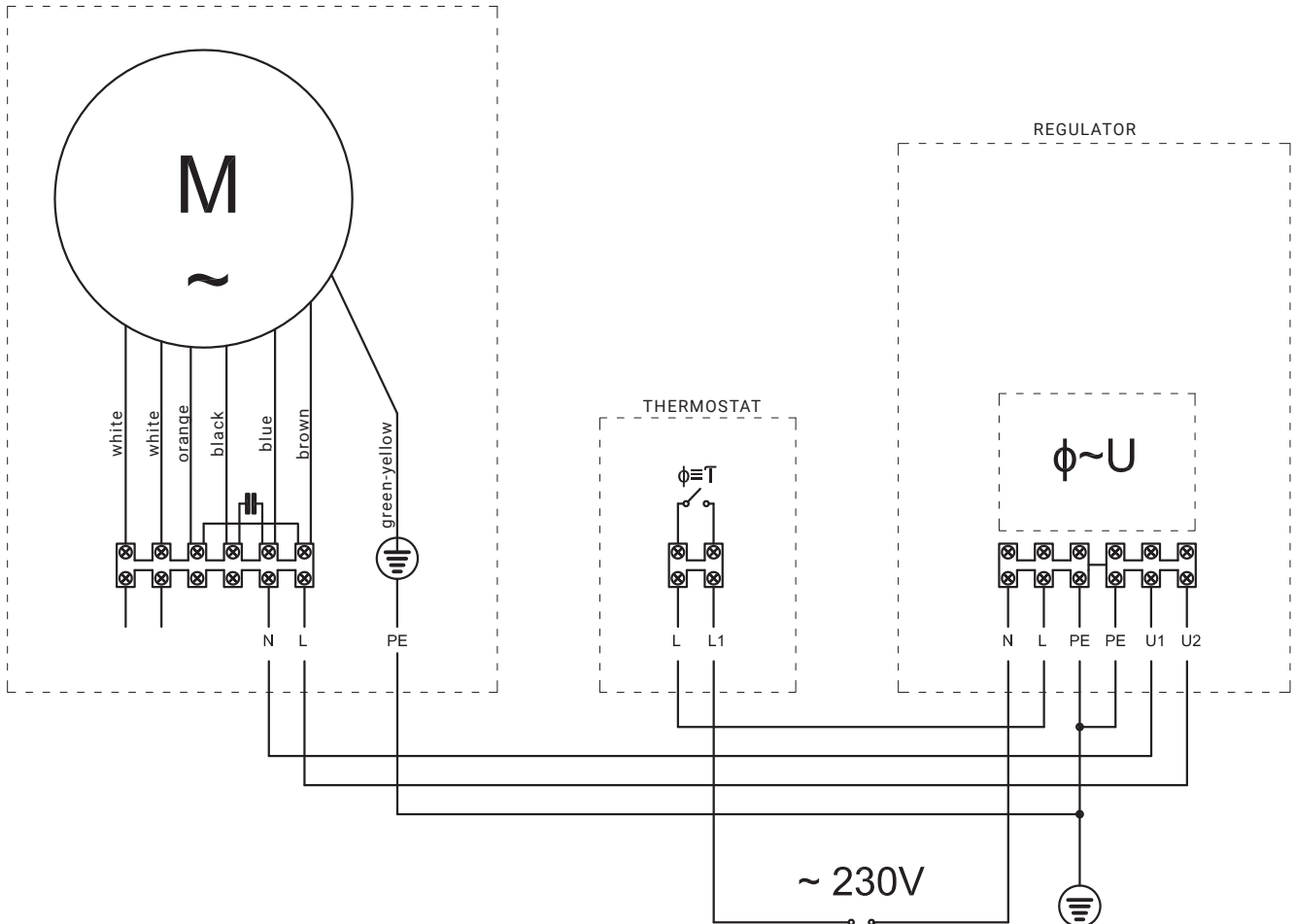
AGRO MULTI LT - ELECTRICITY CONNECTION



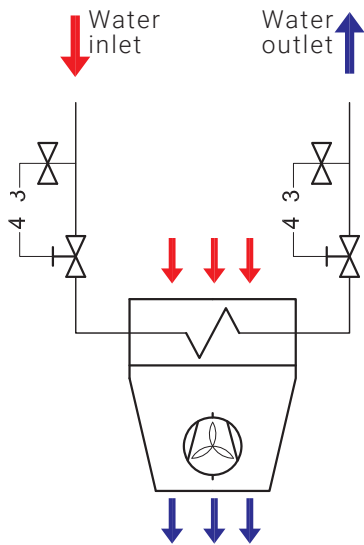
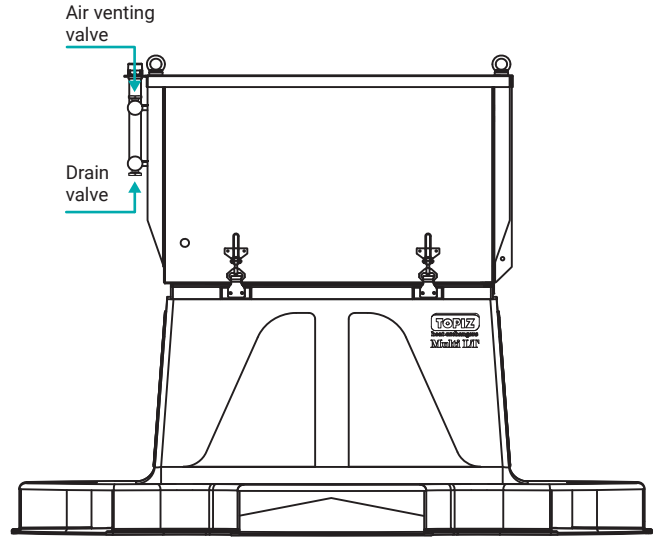
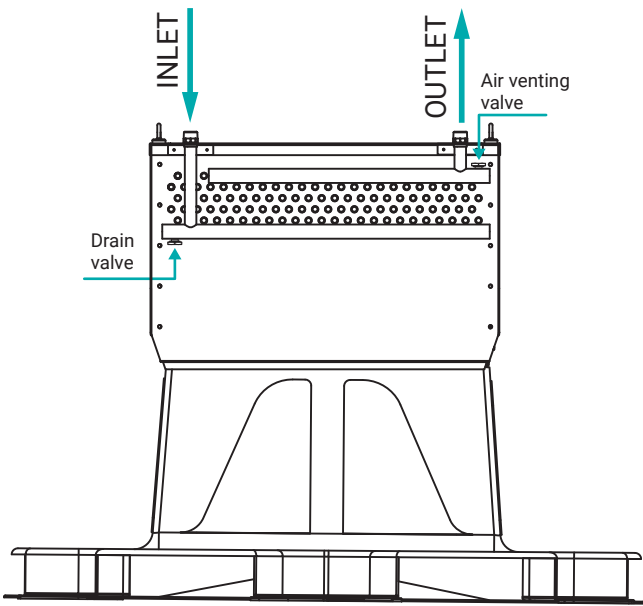
Motor with capacitor and thermal switch



AGRO MULTI LT - FAN HEATER



AGRO MULTI LT - WATER CONNECTION

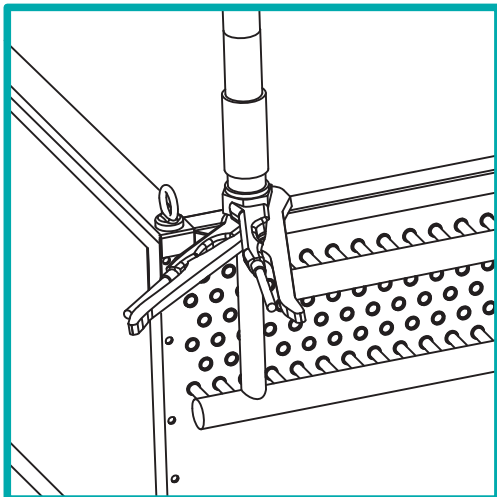


1. Axial fan
2. Heat exchanger
3. Manual discharge valve
4. Ball valve



WARNING!

Place the discharge valve at the lowest point of the water system to facilitate draining when necessary.



WARNING!

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Always use an additional tool for tightening.



Always use protective gloves.

	AGRO MULTI 4R	AGRO MULTI 6R
Air flow [m ³ /h]	6500	6100
Fan diameter [Ø]	500	500
Power supply [V/Hz]	240/50	240/50
Max. current [A]	3.35	3.35
Motor speed [rpm]	1400	1400
Max. electrical power [W]	720	720
IP/Insulation class	55/65	55/65
Sound power level [db(A)]	46	46
Max. operating temperature [°C]	60	60
Max. air range [m]	20	20
Max. water temperature [°C]	95	95
Connection ["]	5/4	5/4
Weight of unit [kg]	95	105

Selection

The first step is selecting a fan heater with appropriate heating power. The heating power depends on the surface area of the object to be heated, the external temperature conditions, and the type of farm.

Installation

Agro fan heaters should be mounted in the middle of the object, at minimum height of 300 mm from the floor. They are secured to the ceiling with cables and hangers. Hot water is supplied through flexible hoses.

Maintenance

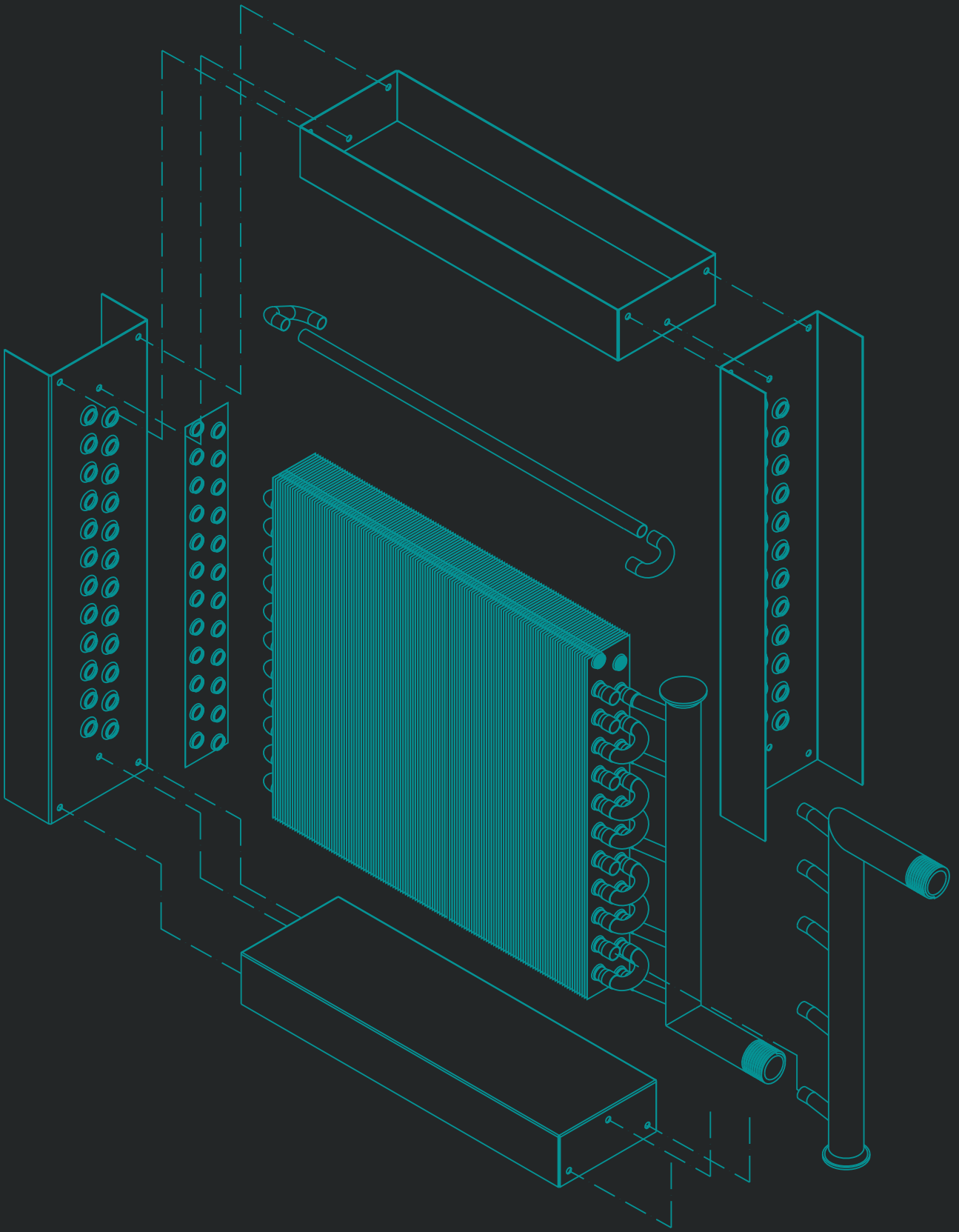
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Think GREEN

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Branka Radičevića 26,
11211 Belgrade, Serbia
+381 11 3328-904
topiz@eunet.rs
www.topizcoils.com