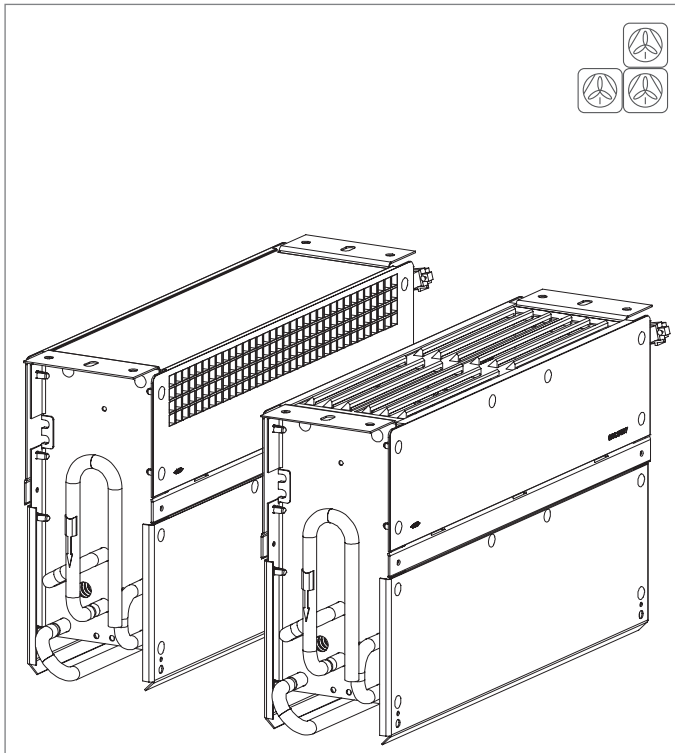
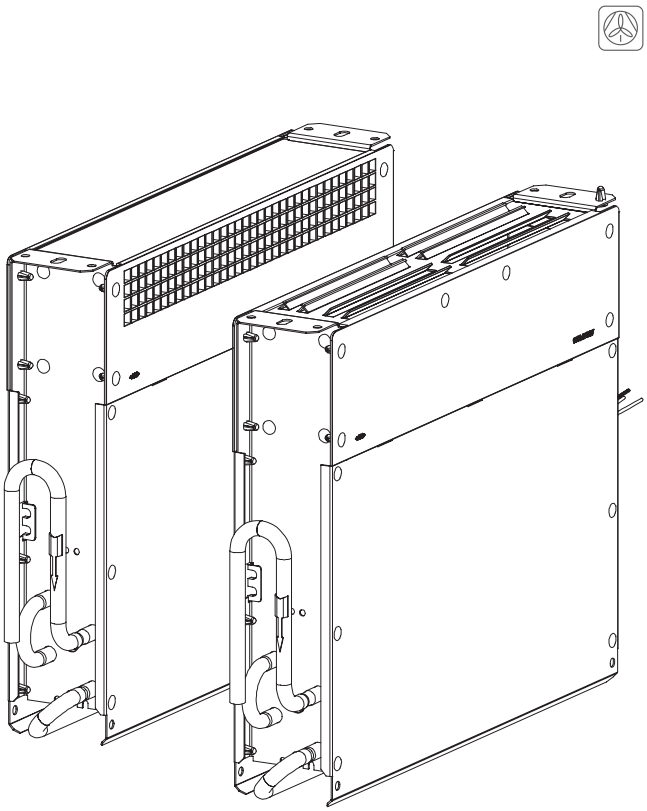
CHANGING
GEA HEAT EXCHANGERS

Mounting Guide



Küba *gastro* FM / FMO [FM011 - 042D]



Küba *gastro slim* FM / FMO [FM811 - 841D]

Mounting Guide
Page 2-4

- Dimensions
- Weights
- Assembly

Electrical wiring
Page 5-11

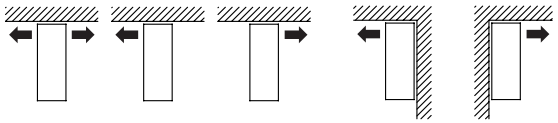
- Motor wiring diagram
- Electrical defrosting wiring diagram
- Cabling
- Assembly of TAS accessories
- Wiring diagram for TAS accessories

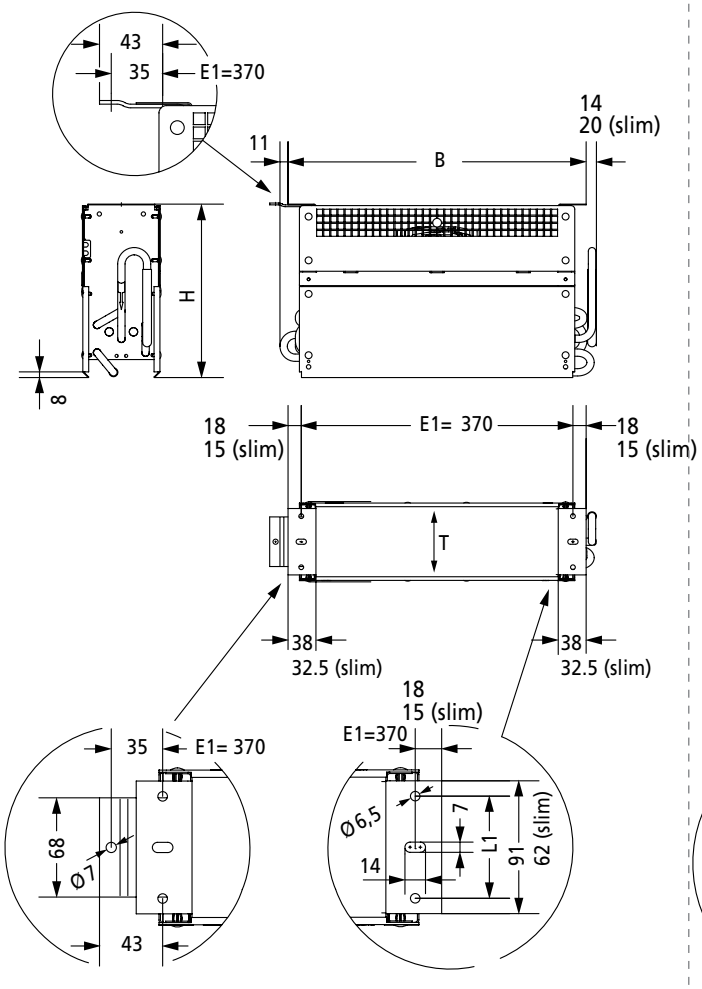
gastro FM

Dimensions

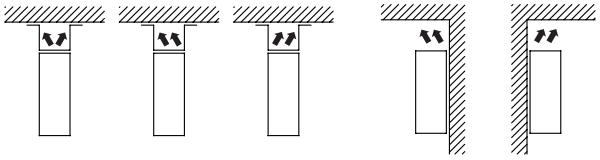
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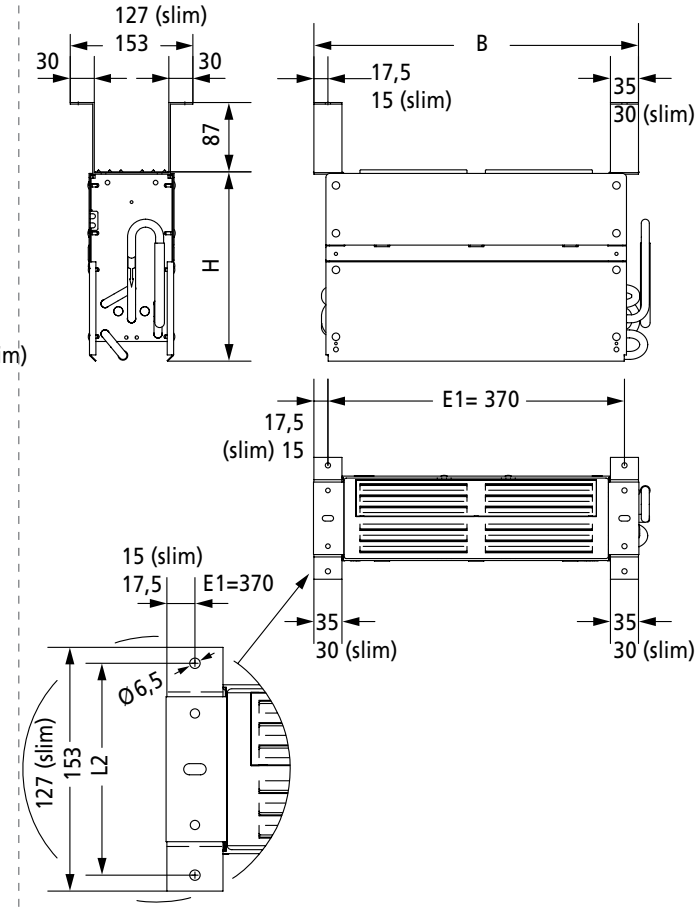
FM





FMO

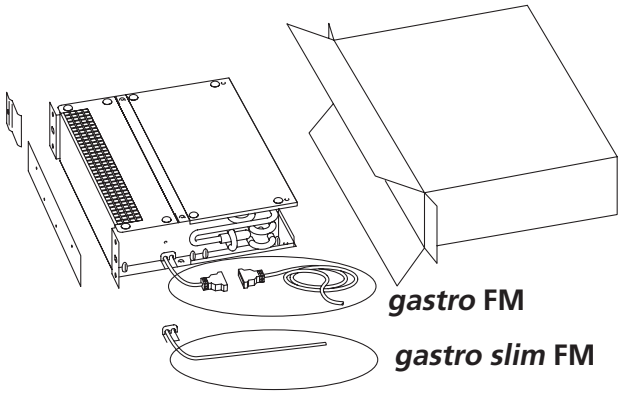


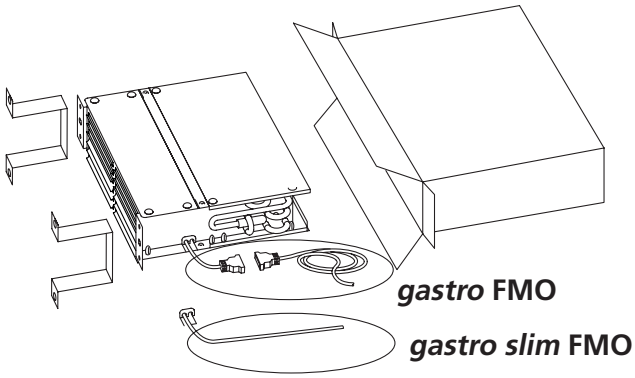


Type	H ±5	B ±5	T ±5	L1 ±5 (FM)	L2 ±5 (FMO)	E1 ±5	Weight	
FM, FMO	mm	mm	mm	mm	mm	mm	kg	
							net	gross
811 D	324	400	75	50	107	370	2,4	3,0
821 D	362	400	75	50	107	370	2,8	3,4
841 D	438	400	75	50	107	370	4,5	5,1
011 D	238	405	107	70	133	370	2,3	2,8
021 D	273	405	107	70	133	370	2,7	3,1
022 D	273	405	107	70	133	370	3,3	3,8
032 D	308	405	107	70	133	370	3,7	4,2
042 D	378	405	107	70	133	370	4,3	4,8

Montage

1





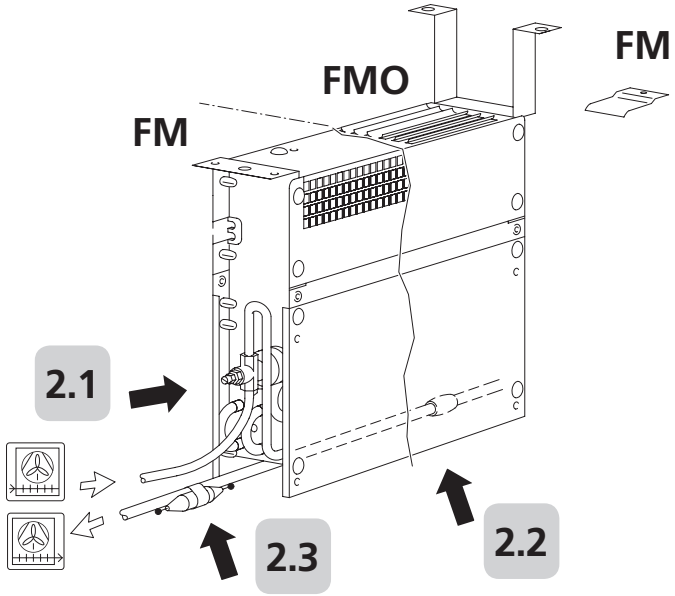
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2.1

2.2

2.3

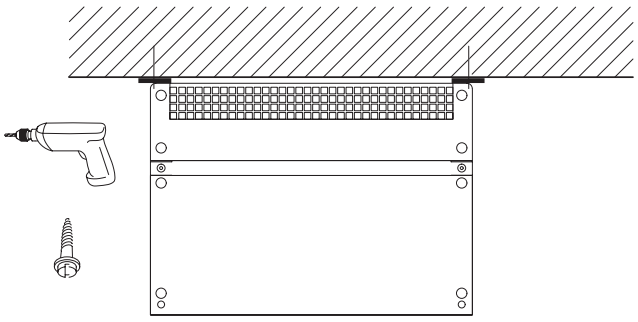
FM FMO	ø mm	ø mm
811 D	10	10
821 D	10	10
841 D	10	10
011 D	10	10
021 D	10	10
022 D	10	10
032 D	10	10
042 D	10	10

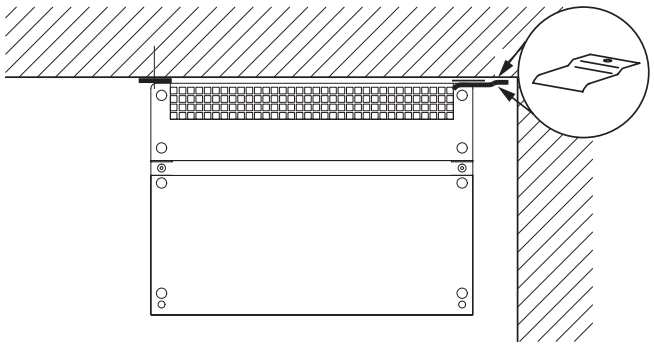


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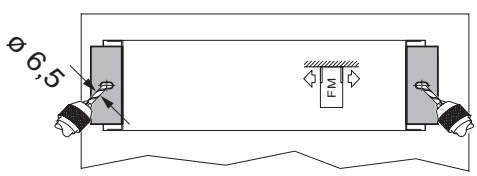
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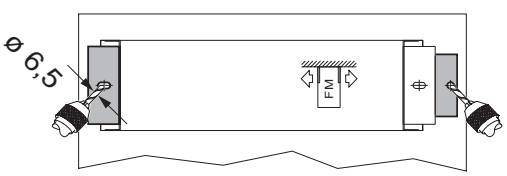
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FM



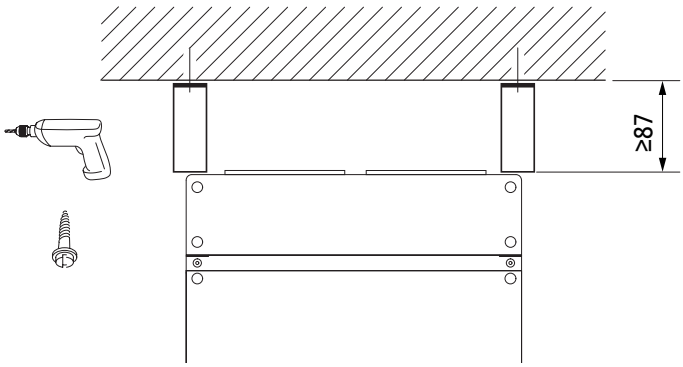


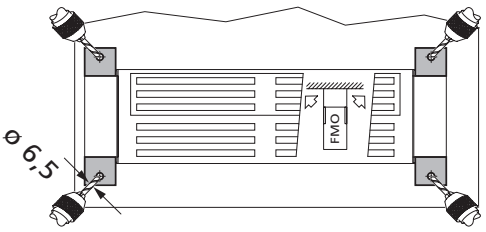
Montage

3

3.1

3.2





FMO

4

4.1

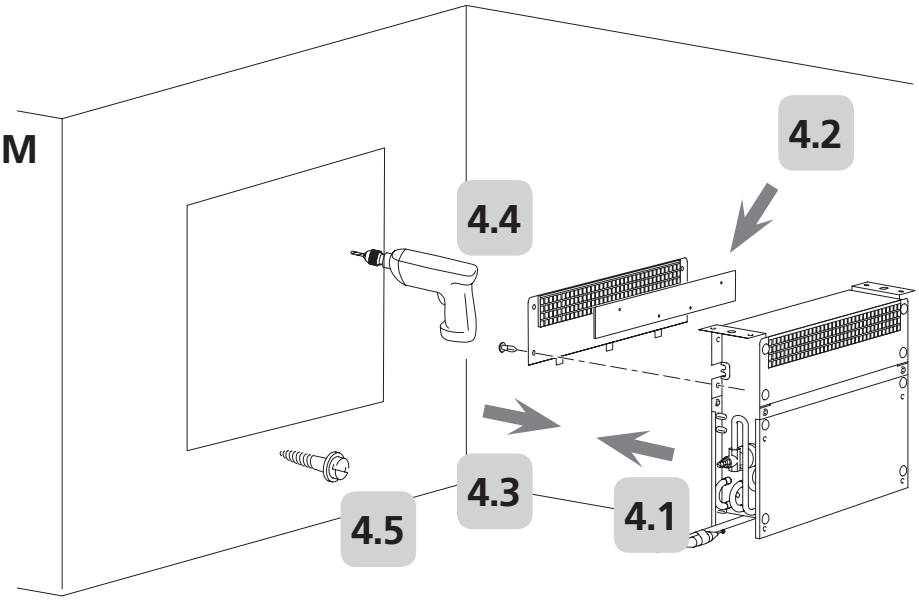
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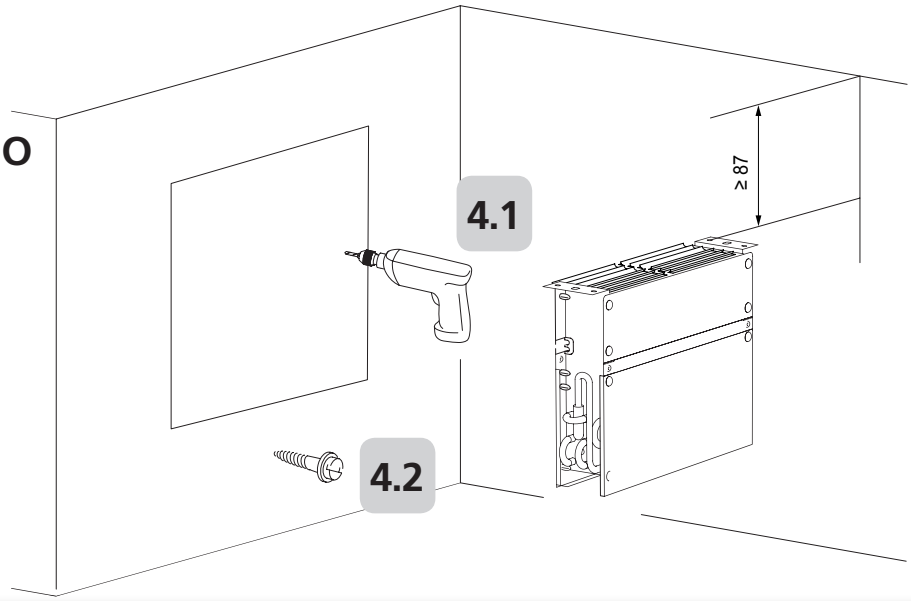
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4.5

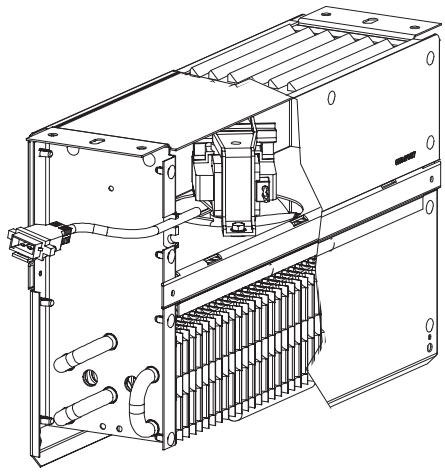
FM



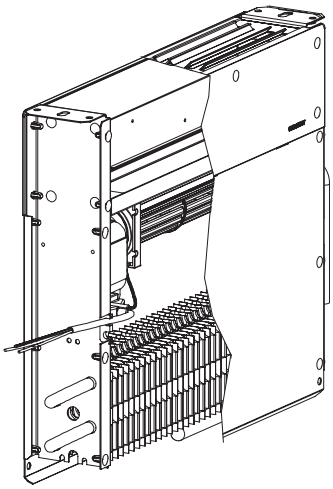
FMO



Electrical wiring

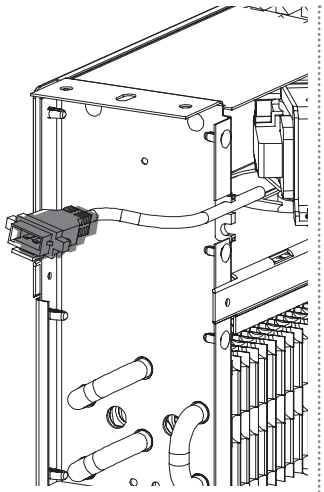


Küba *gastro* FM

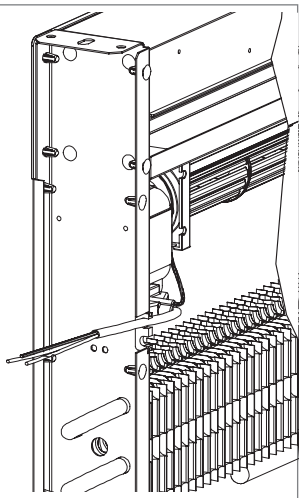


Küba *gastro slim* FM

Motor

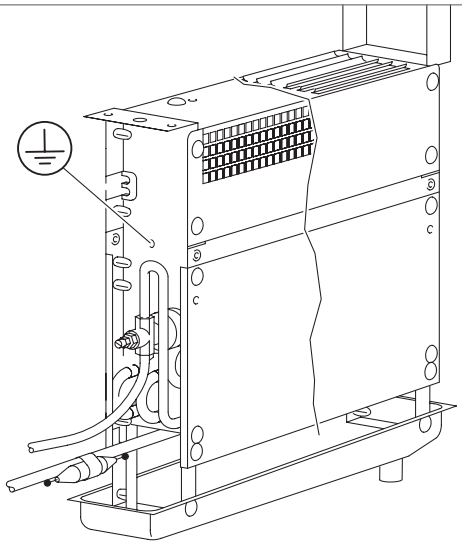


Küba *gastro* FM

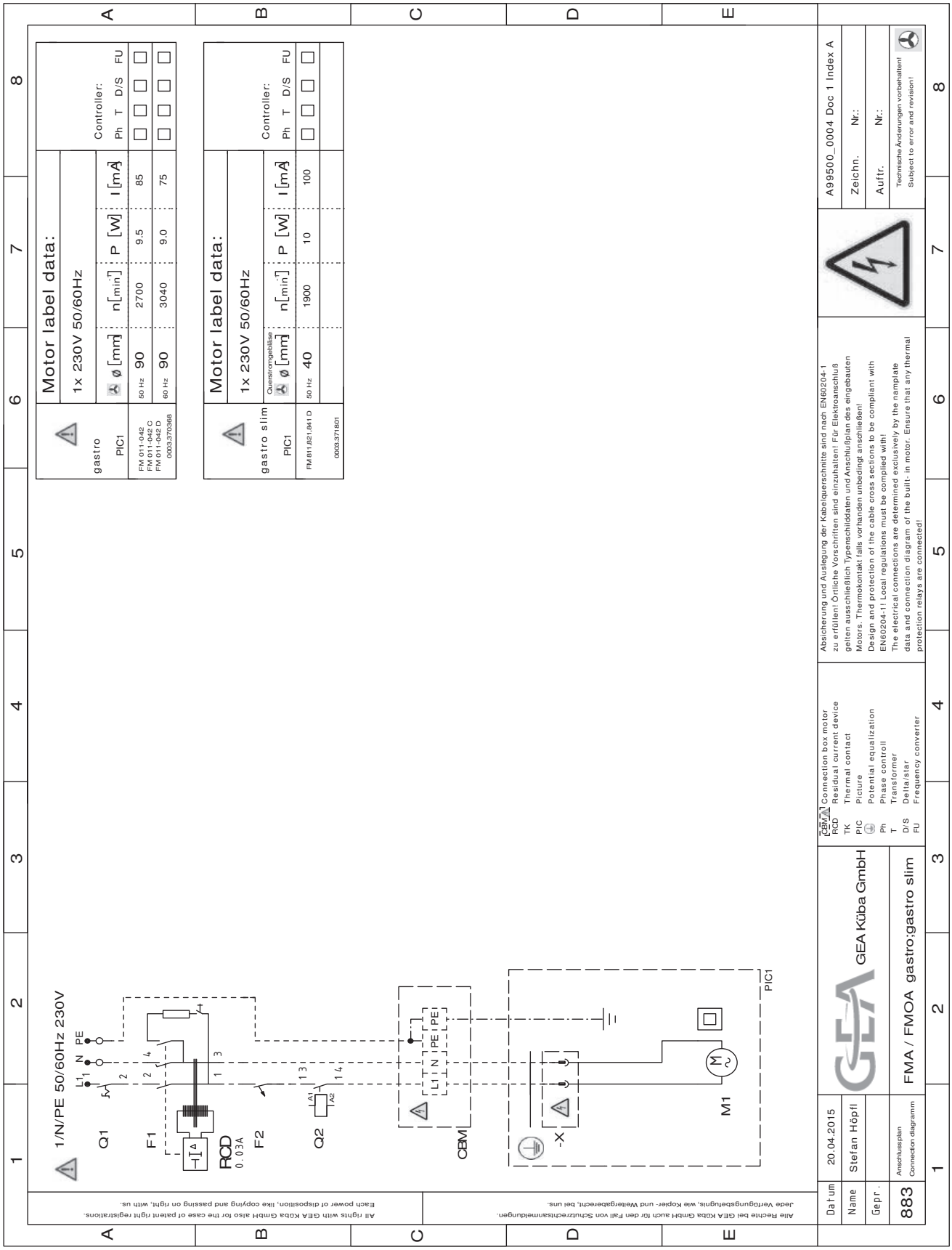


Küba *gastro slim* FM

Accessories – Electric Defrost: Tubular radiator; TAS

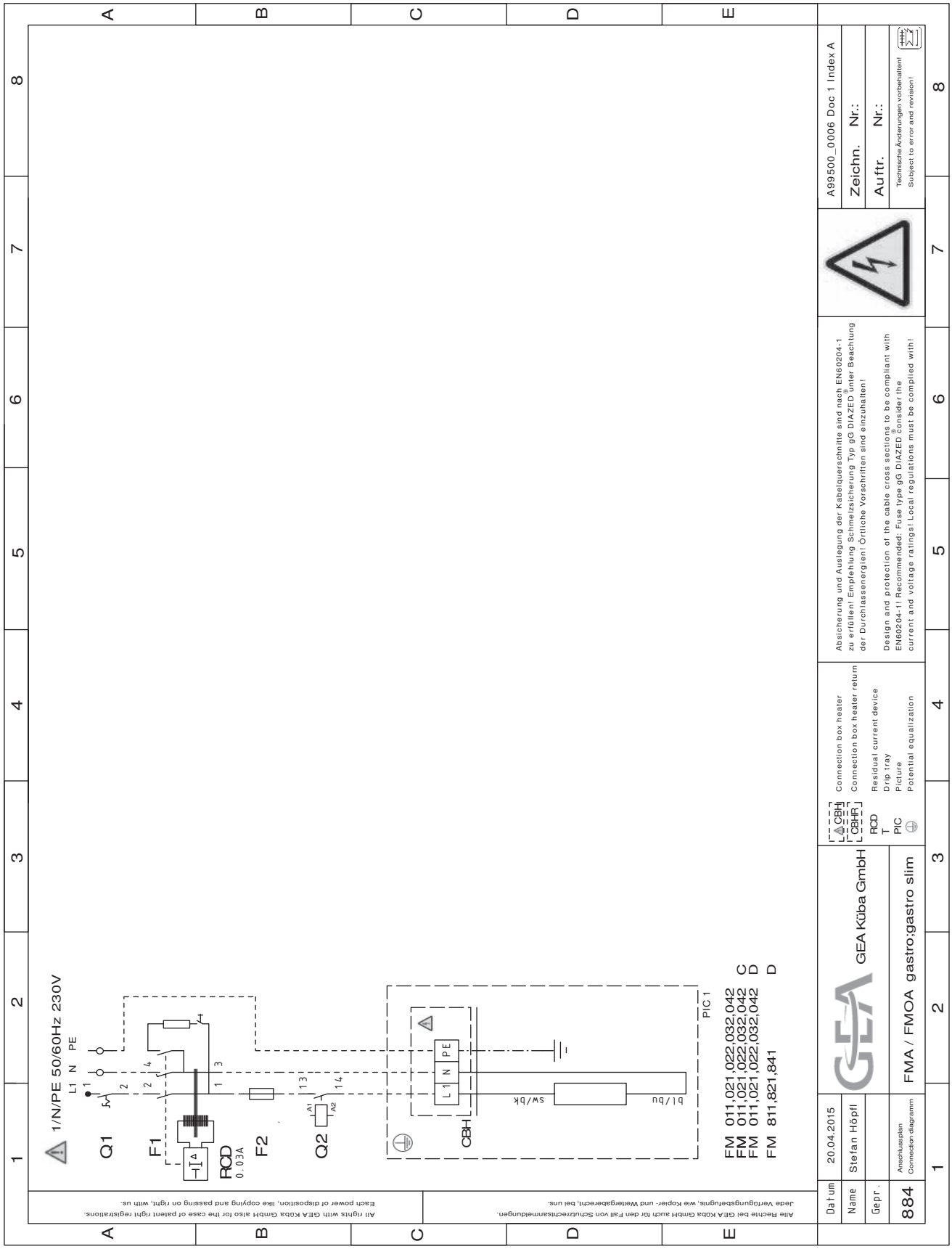


Motor wiring diagram



Electrical defrost wiring diagram

Tubular Radiator



Cabling

FM.D *gastro*

Zubehör elektr. Abt / Accessories, electr. defrost **Wiring diagram number: A99500_0006** (Doc 2; Index A)																	
Type		Coil heating bar (KÖ)				Drip tray heating bar (D)							**PIC**	**L1**		
FM FM.C FM.D	Finned length	Number	Length	Capacity P	Form	Number	Length	Capacity P	Form	Total capacity of all heating circuits	Total number of all heating circuits	Heating circuit no.	**on the wiring diagram**	No. of heating element, coil KÖ	No. of heating element, drip tray D	No. of heating element, drip tray D (R)
Type	L [mm]	KÖ [pcs]	L [mm]	P [W]		TW [pcs]	L [mm]	P [W]		P [kW]	[pcs]	[Nb]		[pcs]	[pcs]	[pcs]
FM FM.C FM.D	Finned length															
011 D	300	1	900	305	U35					0,31	1		1	1		
021 D	400	2	900	305	U35					0,61	1		1	2		
022 D	800	2	900	305	U35					0,61	1		1	2		
032 D	800	2	900	305	U35					0,61	1		1	2		
042 D	800	2	900	305	U35					0,61	1		1	2		

FM.D *gastro slim*

Zubehör elektr. Abt / Accessories, electr. defrost **Wiring diagram number: A99500_0006** (Doc 2; Index A)																	
Type		Coil heating bar (KÖ)				Drip tray heating bar (D)							**PIC**	**L1**		
FM.D	Finned length	Number	Length	Capacity P	Form	Number	Length	Capacity P	Form	Total capacity of all heating circuits	Total number of all heating circuits	Heating circuit no.	**on the wiring diagram**	No. of heating element, coil KÖ	No. of heating element, drip tray D	No. of heating element, drip tray D (R)
Type	L [mm]	KÖ [pcs]	L [mm]	P [W]		TW [pcs]	L [mm]	P [W]		P [kW]	[pcs]	[Nb]		[pcs]	[pcs]	[pcs]
FM.D	Finned length															
811 D	335	1	900	305	U35					0,31	1		1	1		
821 D	335	1	900	305	U35					0,31	1		1	1		
841 D	335	2	900	305	U35					0,61	1		1	2		

	CBH connection box Heater Heating circuit												CBHR connection box Heater return Heating circuit return			
L2			L3													
No. of heating element, coil KÖ	No. of heating element, drip tray D	No. of heating element, drip tray D (R)	No. of heating element, coil KÖ	No. of heating element, drip tray D	No. of heating element, drip tray D (R)	Total capacity of heating circuit P	Current L1	Current L2	Current L3	Recom-mended cable cross-section for supply line (building-side)	Spring 374041	Junction box conn. box with earthing cable	Heating circuit no.	Junction box connection box	Minimum cable cross-section for return	Cable length for parts list
[pcs]	[pcs]	[pcs]	[pcs]	[pcs]	[pcs]	P [kW]	I [A]	I [A]	I [A]	min [mm²]	[Size]	CBH	[Nb]	CBHR	min [mm²]	[m]
																
						0,31	1,33			2,50		ABO025				
						0,61	2,65			2,50		ABO025				
						0,61	2,65			2,50		ABO025				
						0,61	2,65			2,50		ABO025				
						0,61	2,65			2,50		ABO025				

	CBH connection box Heater Heating circuit												CBHR connection box Heater return Heating circuit return			
L2			L3													
No. of heating element, coil KÖ	No. of heating element, drip tray D	No. of heating element, drip tray D (R)	No. of heating element, coil KÖ	No. of heating element, drip tray D	No. of heating element, drip tray D (R)	Total capacity of heating circuit P	Current L1	Current L2	Current L3	Recom-mended cable cross-section for supply line (building-side)	Spring 374041	Junction box conn. box with earthing cable	Heating circuit no.	Junction box connection box	Minimum cable cross-section for return	Cable length for parts list
[pcs]	[pcs]	[pcs]	[pcs]	[pcs]	[pcs]	P [kW]	I [A]	I [A]	I [A]	min [mm²]	[Size]	CBH	[Nb]	CBHR	min [mm²]	[m]
																
						0,31	1,33			2,50		ABO025				
						0,31	1,33			2,50		ABO025				
						0,61	2,65			2,50		ABO025				

Assembly: Drip Tray

TAS assembly

1

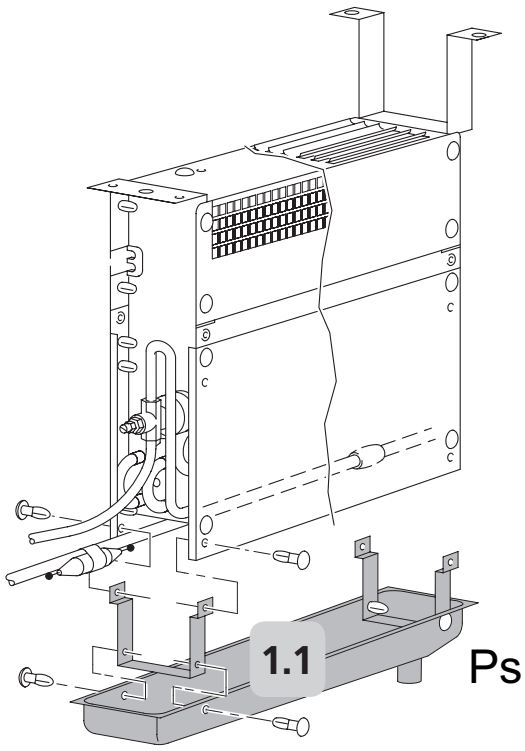
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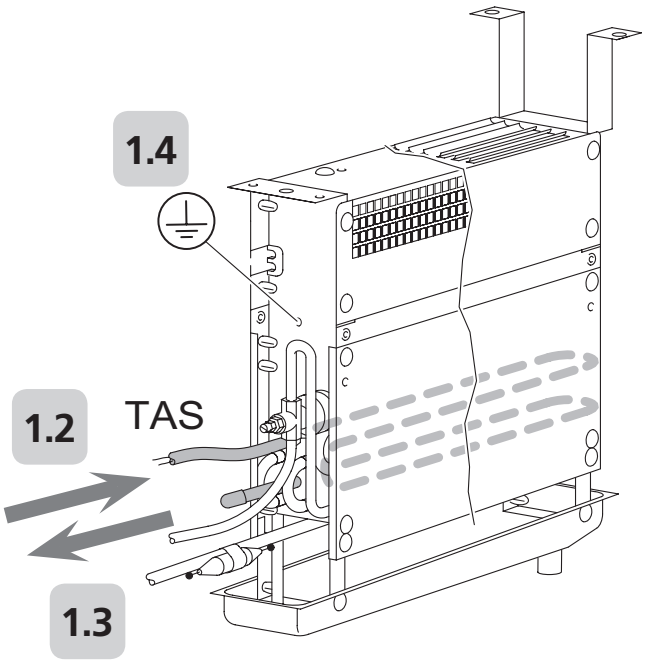
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1.4

FM
FMO





1

1.1

1.2

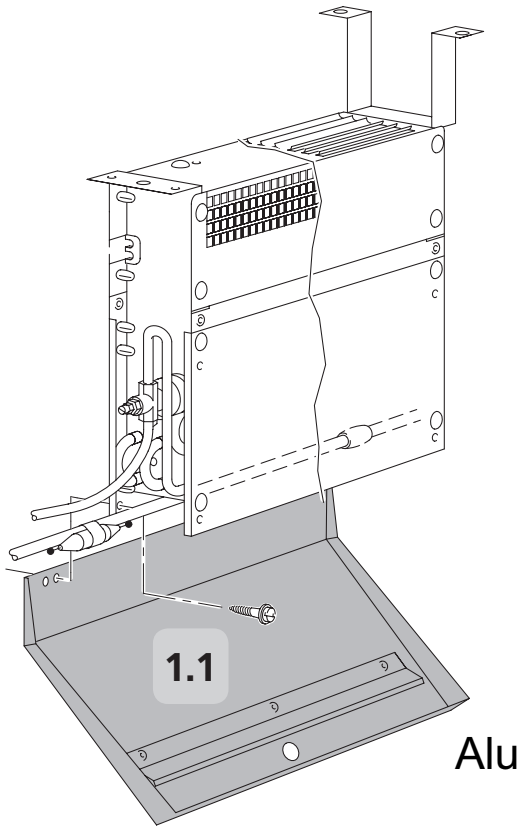
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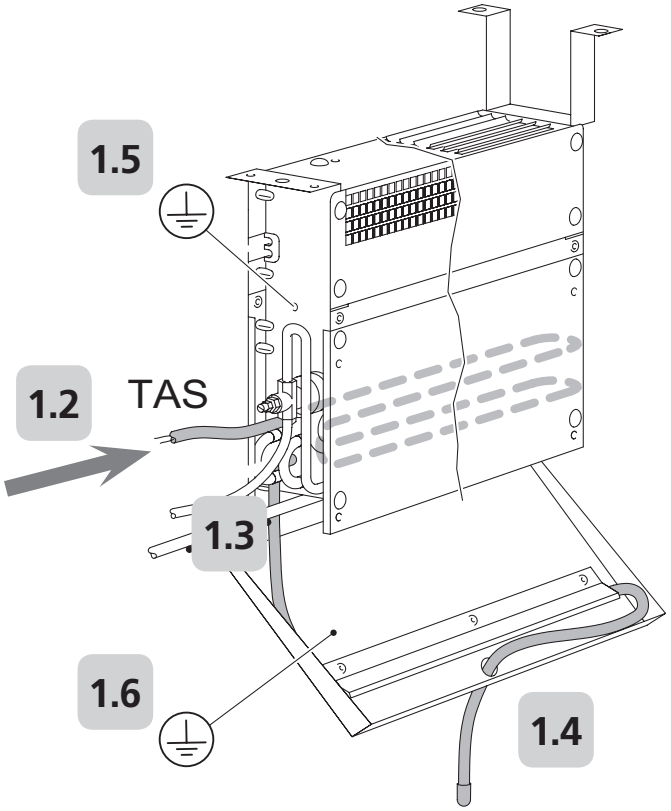
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1.5

1.6

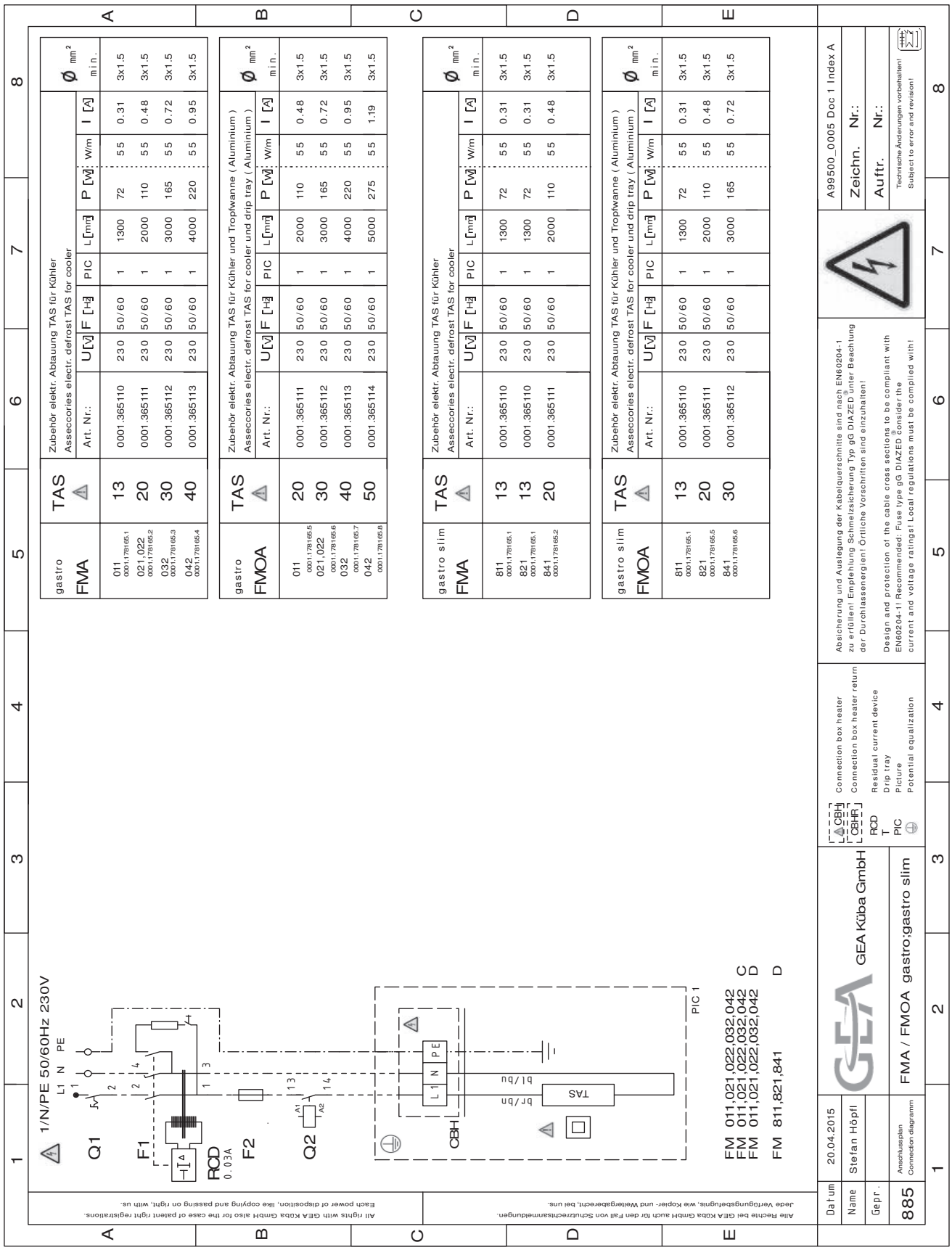
FM
FMO





Electrical defrost wiring diagram

TAS



gastro FMA — TAS — Zubehör elektr. Abtauung TAS für Kühler / Asseccories electr. defrost TAS for cooler

Art. Nr.:	TAS	U [V]	F [Hz]	PIC	L [mm²]	P [W]: W/m	I [A]	Ø mm² min.
011 0001.178165.1	13	0001.365110	230 50/60	1	1300	72 55	0.31	3x1.5
021,022 0001.178165.2	20	0001.365111	230 50/60	1	2000	110 55	0.48	3x1.5
032 0001.178165.3	30	0001.365112	230 50/60	1	3000	165 55	0.72	3x1.5
042 0001.178165.4	40	0001.365113	230 50/60	1	4000	220 55	0.95	3x1.5

gastro FMOA — TAS — Zubehör elektr. Abtauung TAS für Kühler und Tropfwanne (Aluminium) / Asseccories electr. defrost TAS for cooler und drip tray (Aluminium)

Art. Nr.:	TAS	U [V]	F [Hz]	PIC	L [mm²]	P [W]: W/m	I [A]	Ø mm² min.
011 0001.178165.5	20	0001.365111	230 50/60	1	2000	110 55	0.48	3x1.5
021,022 0001.178165.6	30	0001.365112	230 50/60	1	3000	165 55	0.72	3x1.5
032 0001.178165.7	40	0001.365113	230 50/60	1	4000	220 55	0.95	3x1.5
042 0001.178165.8	50	0001.365114	230 50/60	1	5000	275 55	1.19	3x1.5

gastro slim FMA — TAS — Zubehör elektr. Abtauung TAS für Kühler / Asseccories electr. defrost TAS for cooler

Art. Nr.:	TAS	U [V]	F [Hz]	PIC	L [mm²]	P [W]: W/m	I [A]	Ø mm² min.
811 0001.178165.1	13	0001.365110	230 50/60	1	1300	72 55	0.31	3x1.5
821 0001.178165.1	13	0001.365110	230 50/60	1	1300	72 55	0.31	3x1.5
841 0001.178165.2	20	0001.365111	230 50/60	1	2000	110 55	0.48	3x1.5

gastro slim FMOA — TAS — Zubehör elektr. Abtauung TAS für Kühler und Tropfwanne (Aluminium) / Asseccories electr. defrost TAS for cooler und drip tray (Aluminium)

Art. Nr.:	TAS	U [V]	F [Hz]	PIC	L [mm²]	P [W]: W/m	I [A]	Ø mm² min.
811 0001.178165.1	13	0001.365110	230 50/60	1	1300	72 55	0.31	3x1.5
821 0001.178165.5	20	0001.365111	230 50/60	1	2000	110 55	0.48	3x1.5
841 0001.178165.6	30	0001.365112	230 50/60	1	3000	165 55	0.72	3x1.5

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