MIPAL
Technology and Trust

Low profile high flow

Forced air evaporator

Mi GS300

1.313 a 14.857 Kcal/h
1.526 a 17.275 W

maio - 2022

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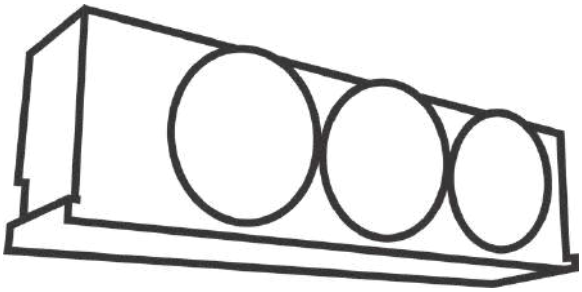
Forced air evaporator
low profile



For cameras up to 4m in height

Benefits

- Higher flow rate provides faster temperature stabilization in environments with greater thermal load variation
- Wider range of capacities
- Adaptable to all refrigerants
- Higher thermal and energy efficiency
- Greater number of air exchanges per cubic meter of chamber
- Electric defrost system with quick response
- Standardized electrical assemblies (NBR5410)
- Plug & Play concept: Ease of installation and operation
  Easy access to the fan-motor assembly
- Removal of the resistances from the back of the equipment without the need to disconnect the drain
- Mcoat 2 levels of protection against harsh environments

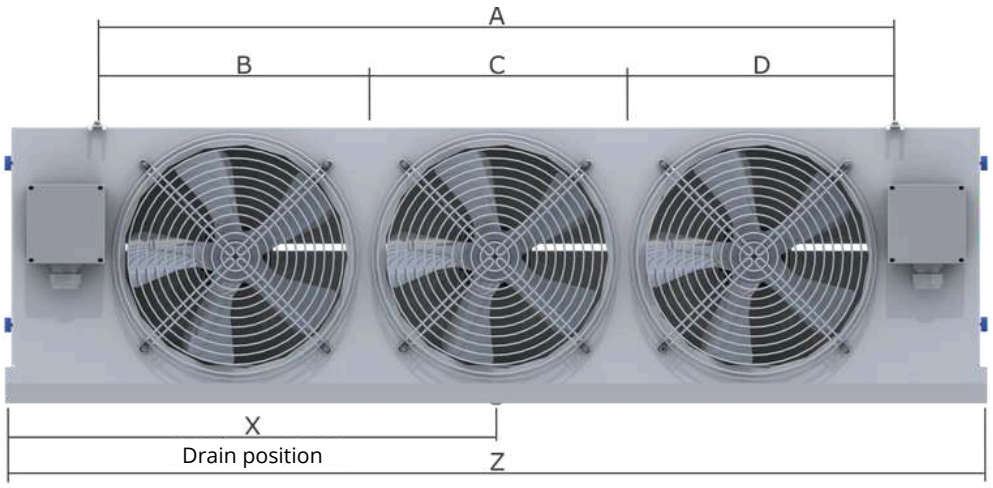
Standard Version

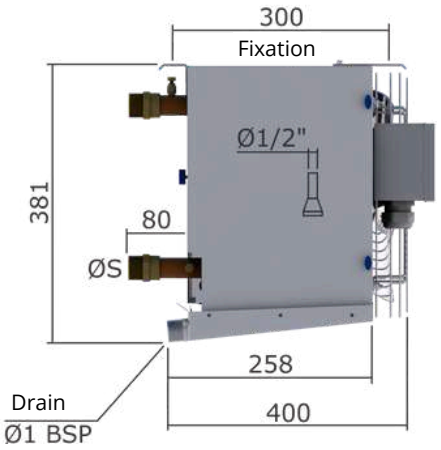
- 1/2" external diameter copper tubes
- 6mm spacing between aluminum fins
- Spring electrical connections
- Smooth aluminum planar cabinet
- Air defrost
- 300mm AC motor fan

Optional items

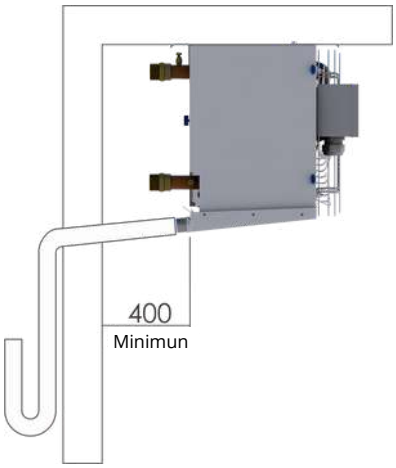
- Hot gas defrost in the core and electric defrost in the tray
- Thermal protector incorporated in versions with electric defrost
- Drain heater installed in versions with electric defrost
- Direct expansion and solenoid connection
- Independent electrical boxes for motors and resistors
  Expansion valve and solenoid
- 300mm ESM fan motor
- Cabinet with epoxy electrostatic painting in white
- Stainless steel cabinet
- Insulated drip tray for applications requiring double insulated trays
- Hot gas defrost in the core
- Mcoat Exclusive protection against harsh environments

Dimensional

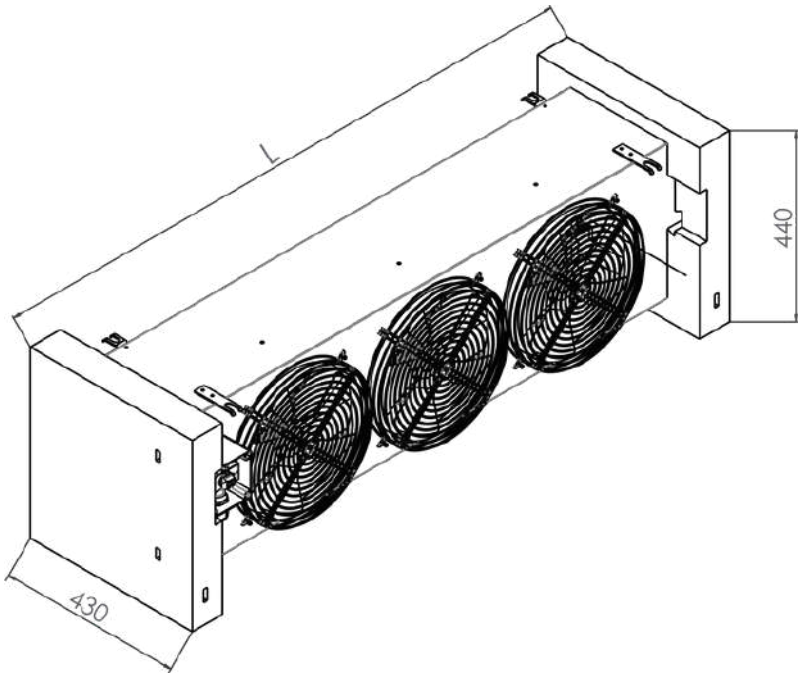




Model		Dimensional(mm)							Weight(Kg)	
		A	B	C	D	Z	X	S	Net	Gross
0019	1	385	-	-	-	640	320	1/2"	8,6	9,2
0037	2	748	-	-	-	1003	501	5/8"	14,2	15
0055	3	1111	-	-	-	1366	683	1 1/8"	20,2	21,2
0073	4	1474	726	-	748	1730	890	1 1/8"	26,5	27,8
0092	5	1837	726	363	748	2092	1046	1 1/8"	31,7	33,2
0111	6	2200	1089	-	1111	2455	1253	1 1/8"	36,3	38
0130	7	2563	726	1089	748	2818	1409	1 1/4"	42,1	44
0149	8	2926	1089	726	1111	3181	1590	1 1/4"	48	50,2



Packaging



Model		(mm)	Weight(Kg)
		L	Gross
0019	1	704	7,7
0037	2	1067	14,7
0055	3	1430	20,1
0073	4	1793	24,9
0092	5	2156	31,8
0111	6	2519	37,5
0130	7	2882	45,4
0149	8	3245	53,1

Capacities • AC Fan Motors

Model	Kcal/h									Watts								
	Evaporation temperatures																	
	-31 ºF -35 ºF	-22 ºF -30 ºC	-13 ºF -25 ºC	-4 ºF -20 ºC	5 ºF -15 ºC	14 ºF -10 ºC	23 ºF -5 ºC	32 ºF 0 ºC	41 ºF 5 ºC	-31 ºF -35 ºC	-22 ºF -30 ºC	-13 ºF -25 ºC	-4 ºF -20 ºC	5 ºF -15 ºC	14 ºF -10 ºC	23 ºF -5 ºC	32 ºF 0 ºC	41 ºF 5 ºC
0019	1313	1363	1408	1452	1494	1535	1583	1708	1782	1526	1585	1637	1688	1737	1785	1840	1986	2072
0037	2724	2830	2922	3014	3101	3186	3285	3544	3698	3168	3291	3397	3504	3606	3705	3820	4121	4300
0055	4051	4208	4344	4481	4611	4737	4884	5270	5499	4710	4893	5051	5210	5361	5508	5679	6128	6394
0073	5408	5617	5800	5982	6155	6324	6520	7035	7341	6288	6532	6744	6956	7157	7353	7581	8181	8536
0092	6818	7083	7313	7543	7761	7974	8221	8871	9256	7928	8236	8503	8771	9025	9272	9560	10315	10763
0111	8151	8467	8742	9017	9278	9532	9828	10604	11065	9478	9845	10165	10484	10788	11084	11427	12330	12866
0130	9556	9927	10249	10572	10878	11176	11522	12433	12973	11112	11543	11918	12293	12649	12995	13398	14457	15085
0149	10944	11369	11738	12107	12458	12799	13196	14239	14857	12726	13219	13649	14078	14486	14883	15344	16556	17275

Capacities (DT=10,8ºF / DT1=6ºK)

(*) The capacities above are for 60Hz - for 50Hz, multiply the values by 0.92. Capacity in R-22. For capacities with ESM fan motors, please consult our application engineering.

Dt1: Difference between the air inlet temperature at the evaporator and the refrigerant evaporation temperature. ºK=Kelvin Degrees ºF=Fahrenheit Degrees The air inlet temperature at the evaporator is considered approximately the chamber temperature.

Refrigerant correction factors				
R22	R134A	R404A	R407C	R410A
1	1,01	0,983	0,98	0,95

Electrical Characteristics • AC Fan Motor

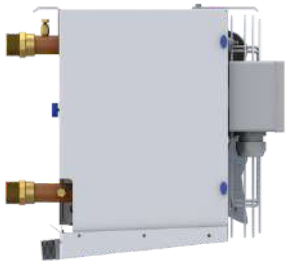
Model		Flow rate m³/h	V dm³	C Kg	Motor AC			Motor ESM			Electrical resistances		
					Noise dBA	1 ~ 220V		Noise dBA	1 ~ 220V		W	1~ 220V	3~ 220V
						W	A		W	A		A	A
0019	1	1 x 1490	2,2	0,44	44,3	120	0,8	44,3	72	0,32	2 x 600	5,5	5,5d
0037	2	2 x 1430	3,9	0,78	47,5	240	1,6	47,5	144	0,64	2 x 1200	10,9	10,9d
0055	3	3 x 1430	5,6	1,13	49,5	360	2,4	49,5	216	0,96	3 x 1200	16,4	9,5
0073	4	4 x 1430	7,1	1,38	50,5	480	3,2	50,5	288	1,28	3 x 1600	21,8	12,6
0092	5	5 x 1430	9,1	1,82	51,5	600	4	51,5	360	1,6	3 x 2000	27,3	15,8
0111	6	6 x 1430	10,8	2,16	52,5	720	4,8	52,5	432	1,92	3 x 2400	32,7	18,9
0130	7	7 x 1430	12,5	2,51	53,5	840	5,6	53,5	504	2,24	3 x 2800	38,2	22,1
0149	8	8 x 1430	14,3	2,85	54,5	960	6,4	54,5	576	2,56	3 x 3200	43,6	25,2

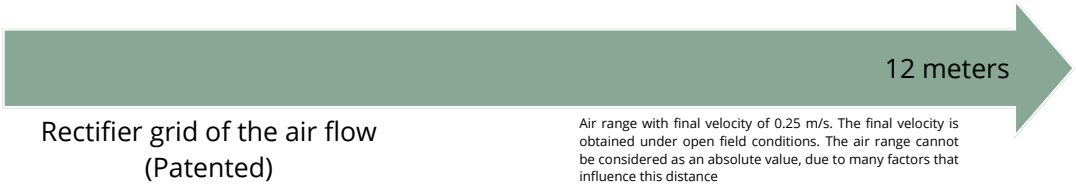
Conectores à prova de variações de temperatura, vibração e choque. A tecnologia de conexão à mola reduz o tempo das instalações elétricas, sem a necessidade de ferramentas especiais. Componente elétricos normatizados

Legendas
V = Volume interno
C = Carga aproximada de refrigerante
m³/h = Vazão de ar medida a densidade de 1,2 M³/Kg
d = Consumo não equilibrado.

Nível de ruído obtido nas condições de campo aberto a uma distância de 1 metro. (O nível de ruído real depende de fatores como: construção da câmara, tipo de carga e número de aparelhos instalados.) Alcance do Ar de 12m com velocidade final de 0,25 m/s. A velocidade final de 0,25 m/s é obtida nas condições de campo aberto. O alcance de ar, não pode ser considerado como valor absoluto, devido a muitos fatores que têm influência nesta distância. Recomendamos a utilização deste modelo para câmaras frigoríficas com pé direito até 4 metros.

Arrow of Air





Rectifier grid of the air flow
(Patented)

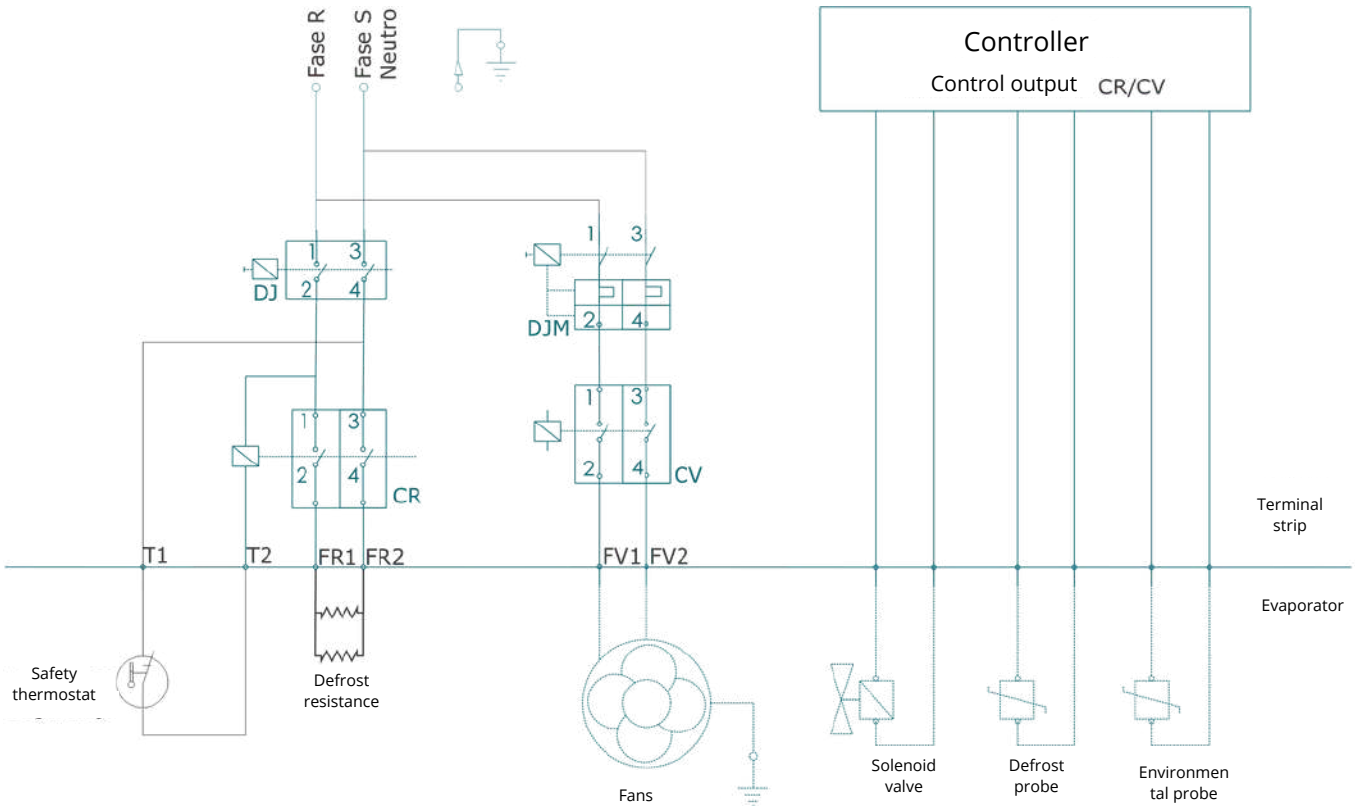
Air range with final velocity of 0.25 m/s. The final velocity is obtained under open field conditions. The air range cannot be considered as an absolute value, due to many factors that influence this distance

Como Comprar

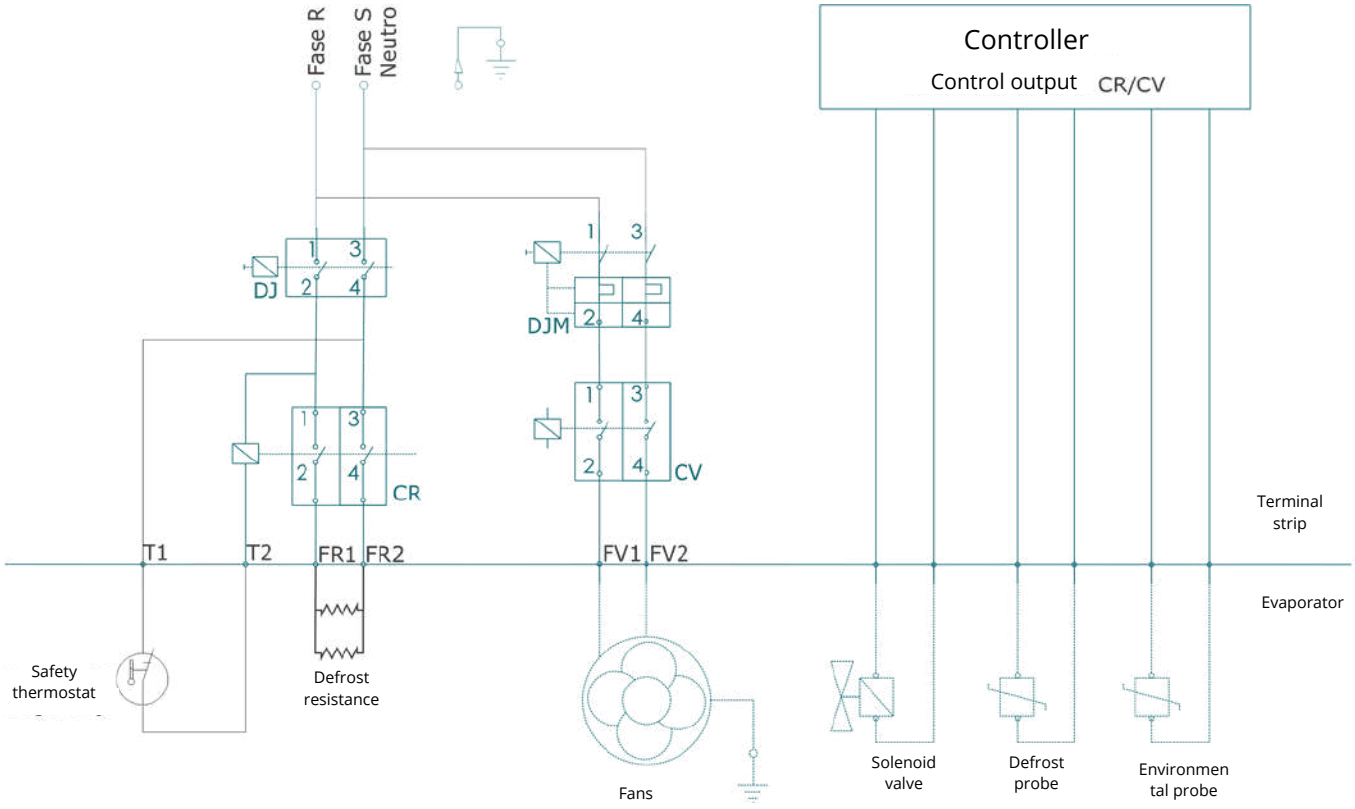
Model	Description	Available Options
GS3	Low Profile Forced Air Evaporator 300mm	
G	Spacing between fins	G • 6mm
E	Defrosting	A • The air E • Electric in the core and tray F • Air in the core and electric in the tray G • Gas in the core and tray H • Gas in the core and electric in the tray I • Gas evaporator
0019	Model	0019 a 0148
C	Tube	C • Copper
A	Connections and tray	A • Direct Expansion M • Direct Expansion and Superheat
00	Accessories	00 • Without accessories 01 • Expansion Valve 02 • Solenoid Valve 11 • Expansion and Solenoid Valve
A	Finish	A • Aluminum Cabinet B • Aluminum cabinet with N1 protection on the fins C • Aluminum cabinet with N2 protection on the fins D • Protected aluminum cabinet E • Aluminum cabinet with N1 protection on the fins F • Aluminum cabinet with N2 protection on the fins M • Stainless steel cabinet N • Stainless steel cabinet with N1 protection on the fins O • Stainless steel cabinet with N2 protection on the fins
MAA	Motor	MAA • AC fan with aluminum blade MAP • AC fan with plastic blade ESM • ESM fan
G	Voltage and Frequency	G • 230V/1F/50Hz N • 230V/1F/60Hz
3	Packaging	1. Crate 2. Box (partition) 3. EPE + PVC Film

Electrical Schematics

Defrost 1F 220V 50/60Hz • Fan 1F 220V 50/60Hz (1 and 2 motor fans)



Defrost 3F 220V 50/60Hz • Fan 1F 220V 50/60Hz (3 to 8 fan motors)

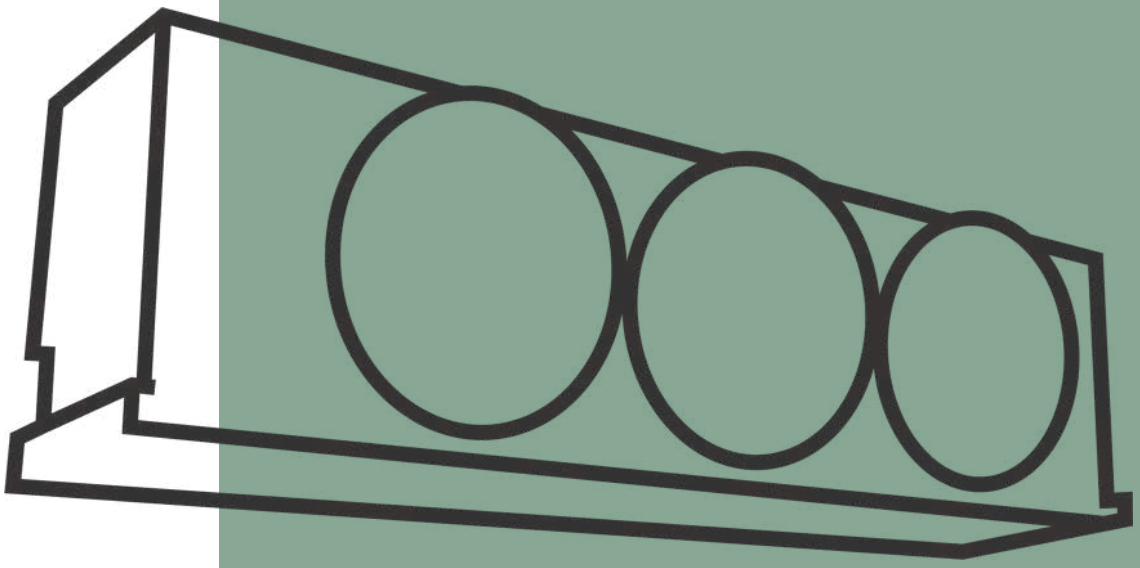


RC • Resistance Contactor
FC • Fan Contactor
CB • Circuit Breaker
MCB • Motor Circuit Breaker

Attention

- When dimensioning installation components, refer to the catalog data table.
- To change factory power supply, contact Mipal engineering.
- The safety thermostat must be connected in series with the contactor coil.
- Always use the ground wire.

Mi
GS300



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mipal_evaporadores
mipaloficial
mipal
mipal
+55 11 4409-0515
11 97617-5467

Av. Engenheiro Afonso Botti, 240
Pinhal • Cabreúva • 13315-000

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