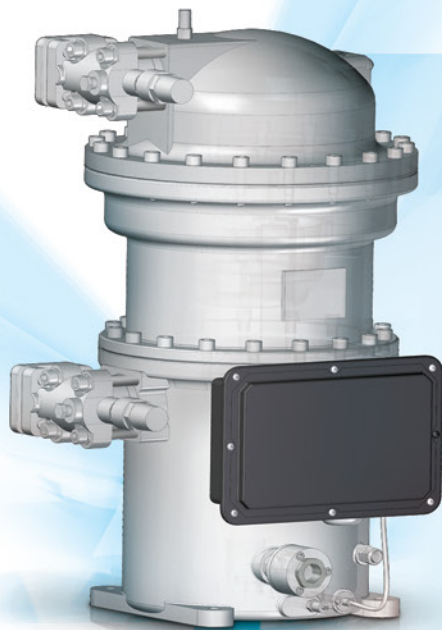


HS Series

SEMI-HERMETIC SCROLL REFRIGERANT COMPRESSOR

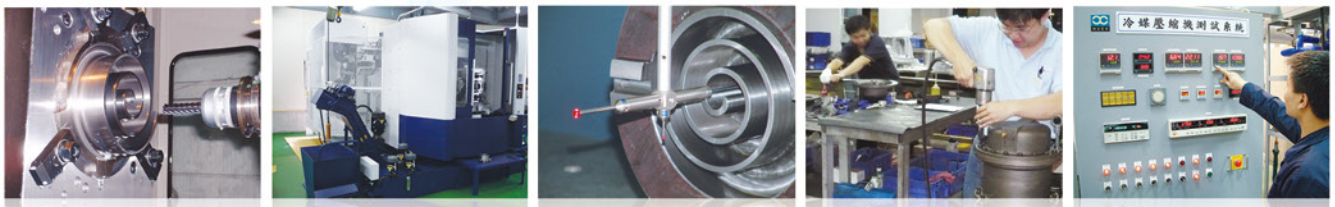
HS SERIES

SEMI - HERMETIC SCROLL COMPRESSORS



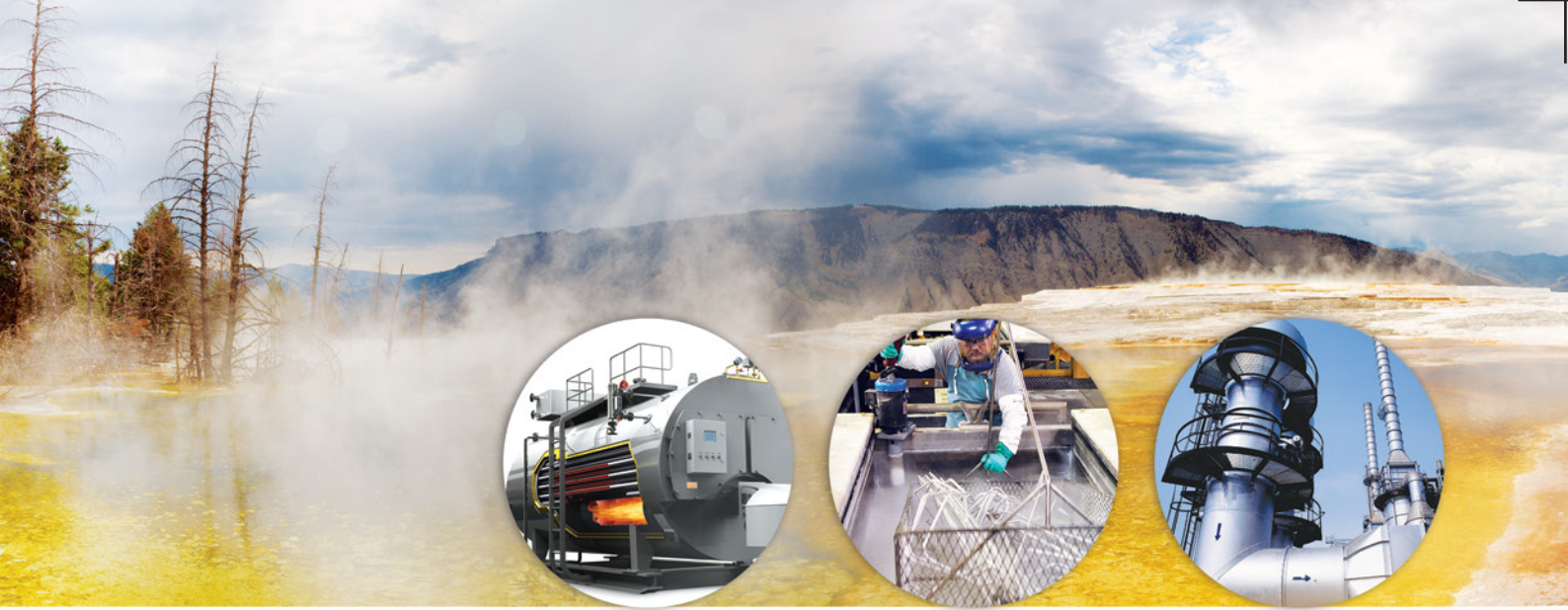
Professional with high quality

Our professional manufacture team with advanced technology and devices provides all series products with high quality and Reliability.



Characteristics and Advantages:

- Professional high pressure ratio and patent streamlining design, efficiency of volumetric is about 97% and able to reduce the cost about 3%-5%.
- Patent semi-hermetic mechanism design, it is convenient to arrange the service and maintenance job for reducing the service and replacement cost.
- Highly accurate positioning structure design, no need to consider the spare space of welding. Better performance in lower vibration and noise than full hermetic compressor.
- Patent internal flow passage design makes lower pressure drops. High efficiency in performance of motor operation and reliability.
- High accurate rolling bearing design to afford the heavy duty application.
- Independent flow passage design to minimize the interaction of refrigerant and lubricant, it is able to reach oil circulation rate less than 1%.



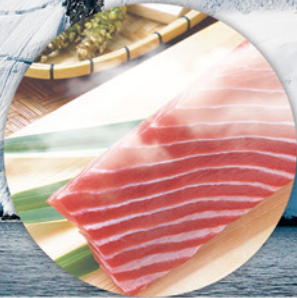
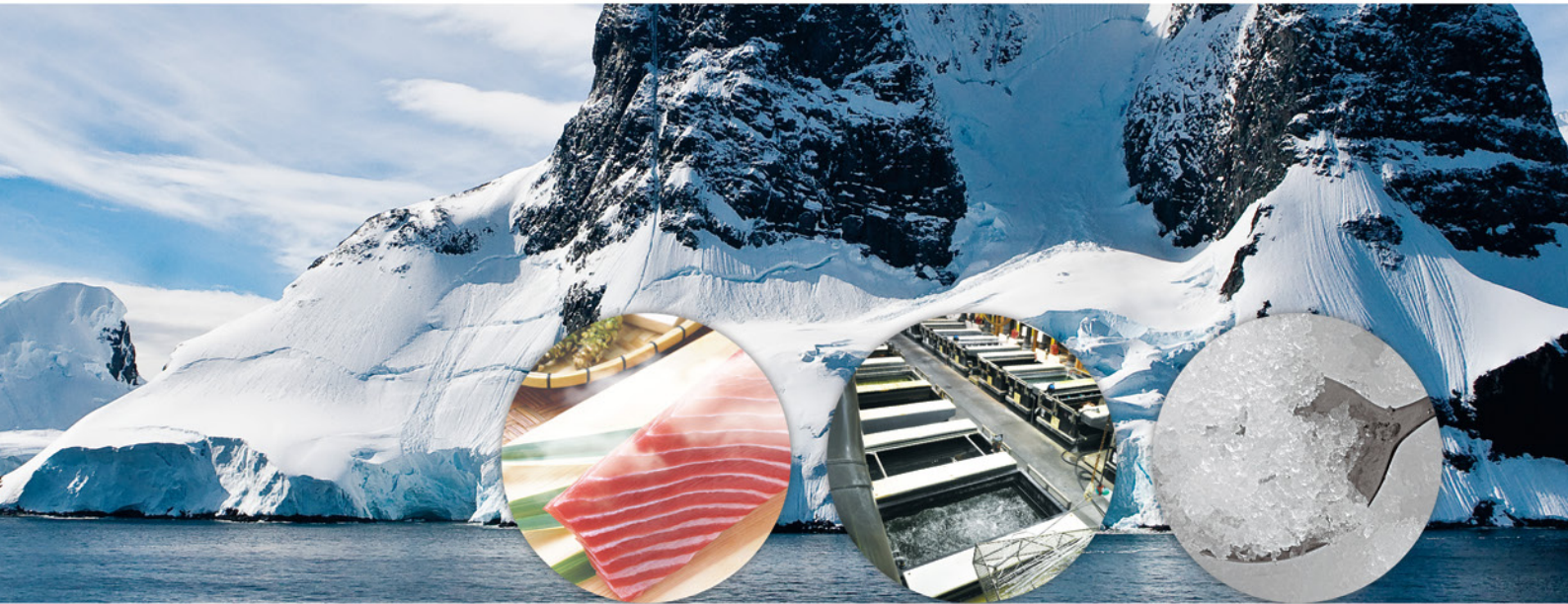
Pre-heating before boiling processes.



Welding processes.



Chemical and Petro chemical industries.



Food storage and processing.



Industrial processing.



Ice making.

Applications:

Heat pump application

- It is able to reach maximum ET 25°C heat recovery application.
- To satisfy the inquiry of energy-saving and reach 85°C water outlet.

Low-temperature application

- To work with condensing unit.
- Lowest ET can reach -40°C.

All perspective application

- Heat and cold air recovery, heat pump, refrigeration and industrial processing and so forth.
- Tandem and modulation design, it is able to meet the inquiry of partial loading and wide range loading application.

Multiple options of green refrigerant

- R134a, R404A, R407C, R507C, R22, R410A and so forth.
- Different inquiries of refrigerant to meet different industries.

100% test and quality warranty

- Each unit is tested under the simulated working conditions.
- Each unit is made in Taiwan and tested before shipping.

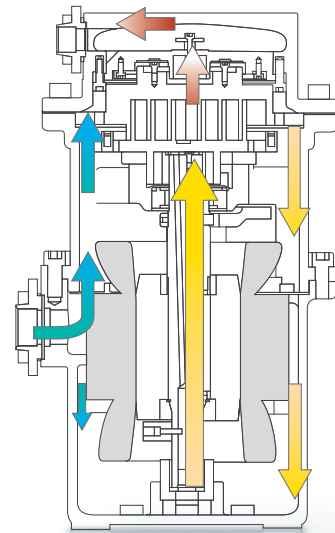
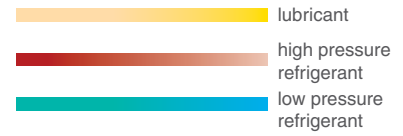
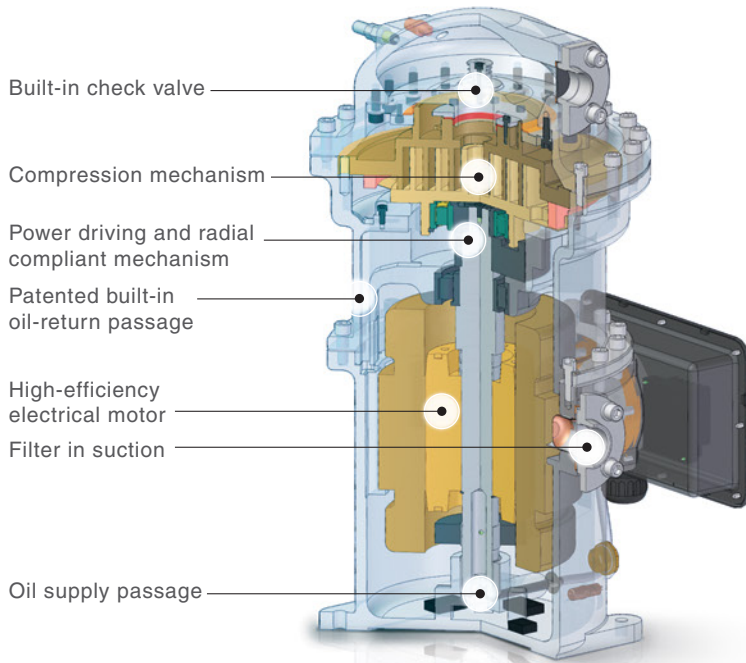
Complete and professional service team

- Instant and professional service support to customers.
- Customer has no hesitation to use Fu Sheng products.

MIT products

- Designing, manufacturing and sales by world-leading brand, Fu Sheng at Taiwan.
- No Idle time in delivery time and service support.

Design of main structure

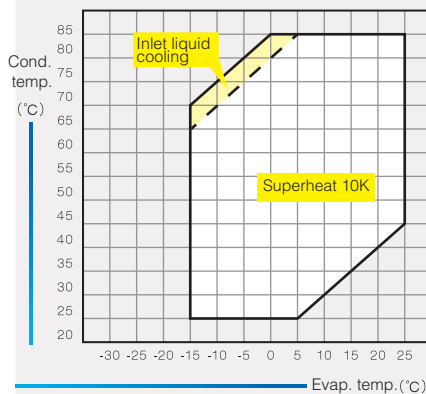


- Outstanding design with advantages include minimize the loss in mechanism and fluid. Excellent performance of operation.
- Multiple positive protections design provides advantage in lowering the risk for the damage of compressor due to the failure of system.
- Design of optional and easy-installation accessories provide advantage for coping with all-series systems, maintenance and upgrade.

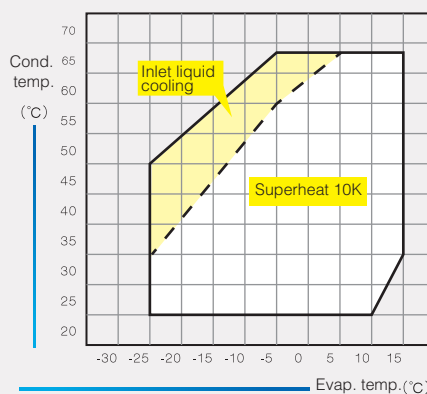


Operating Envelopes

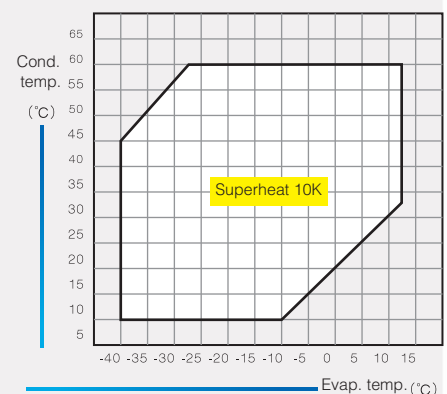
HS***-HA Series



HS***-HB Series



HS***-LD Series



Specification

General specification for HS series			HS165	HS185	HS210	HS250	HS280	HS310
Model								
Displacement m ³ /hr	60Hz/3500	rpm	46.2	49.8	56.1	69.5	78.3	86.7
	50Hz/2900	rpm	38.5	41.5	46.7	57.9	65.3	72.3
Outline scheme	Height	mm	592 (HA/HB) / 594 (LD)			730		
	Width	mm	393 (HA/HB) / 437 (LD)			429 (HA/HB) / 455 (LD)		
	Body flange outer diameter	mm	363			381		
	Diameter of installation hole	mm	14					
Piping	Suction pipe outer diameter	mm	41.3(1-5/8")			41.3(1-5/8")		
	Discharge pipe outer diameter	mm	28.6(1-1/8")			34.9(1-3/8")		
	Electric hose	mm	25.4(1")					
Motor	Start-up method	Standard	D.O.L					
		Optional	N/A			Y-Δ Start		
Lubricant	Standard		FS 055M (For R22 heat pump) / FS 070RA (For R134a heat pump) FS 035R (R404A for refrigeration)					
	Oil Charge	litter	3	3	3	4	4	4
Standard accessory	Oil heater		100W / 220V					

Heat Pump

HS***-HA (R134a)			HS165-HA	HS185-HA	HS210-HA	HS250-HA	HS280-HA	HS310-HA	
Model									
	Weight	kg	160	165	170	195	205	215	
Capacity	60Hz	Heating capacity	kcal/hr	32,400	34,600	39,200	49,700	54,700	59,000
		Power Input	kW	12.6	13.6	15.3	19.1	20.7	22
	50Hz	Heating capacity	kcal/hr	27,000	28,800	32,700	41,400	45,600	49,200
		Power Input	kW	10.5	11.3	12.7	15.9	17.3	18.3

The rated heating capacity is under ET=7°C, CT=70°C, Sub-cooling=Superheat=5K operating condition.

HS***-HB (R22)			HS165-HB	HS185-HB	HS210-HB	HS250-HB	HS280-HB	HS310-HB	
Model									
	Weight	kg	160	165	170	195	205	215	
Capacity	60Hz	Heating capacity	kcal/hr	44,500	49,300	55,000	68,000	75,700	84,200
		Power Input	kW	15.1	16.6	18.6	22.7	25.4	28.2
	50Hz	Heating capacity	kcal/hr	37,100	41,100	45,800	56,600	63,100	70,200
		Power Input	kW	12.6	13.8	15.5	19	21.2	23.5

The rated heating capacity is under ET=2°C, CT=6°C, Sub-cooling=Superheat=5K operating condition.

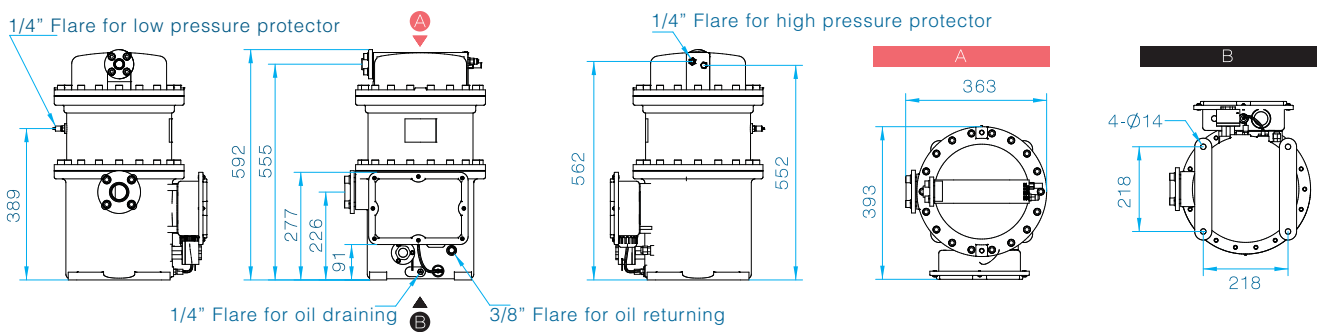
Middle Temperature Refrigeration

HS***-LD (R404A)			HS165-LD	HS185-LD	HS210-LD	HS250-LD	HS280-LD	HS310-LD	
Model									
	Weight	kg	155	160	165	190	200	210	
Capacity	60Hz	Cooling capacity	kcal/hr	24,100	26,300	29,600	36,300	41,100	45,800
		Power Input	kW	12.4	13.4	15	18.5	20.9	23.1
	50Hz	Cooling capacity	kcal/hr	20,100	21,900	24,600	30,200	34,300	38,100
		Power Input	kW	10.4	11.2	12.5	15.4	17.4	19.3
Standard accessory	Suction/Discharge service valves		Same as the spec of suction/discharge pipe						

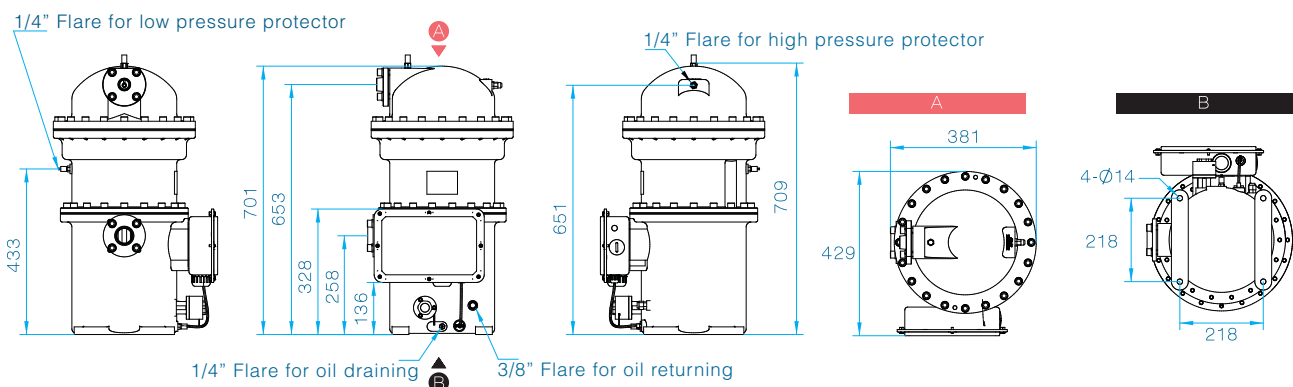
The rated cooling capacity is under ET=-10°C, CT=45°C, Sub-cooling=0K, Return gas temp.=20°C operating condition.

Dimensions

HS 165/185/210-HA/HB



HS 250/280/310-HA/HB

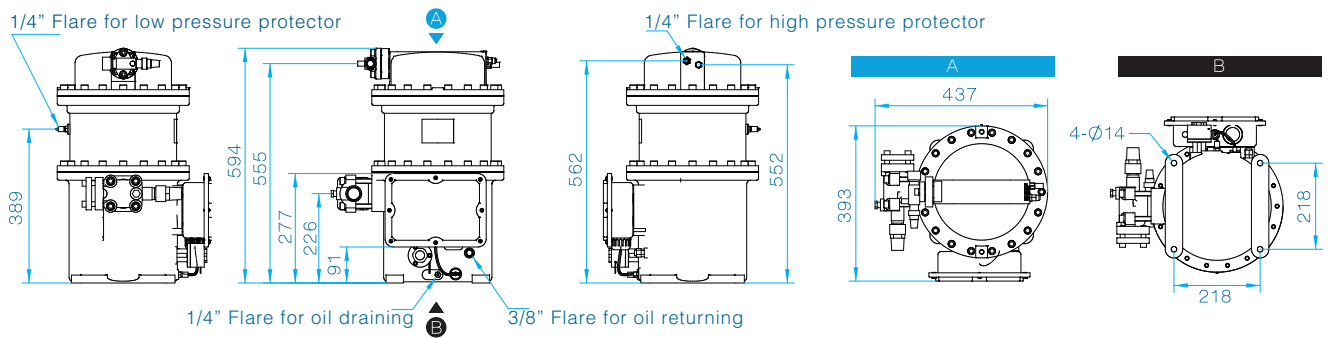


HS SERIES

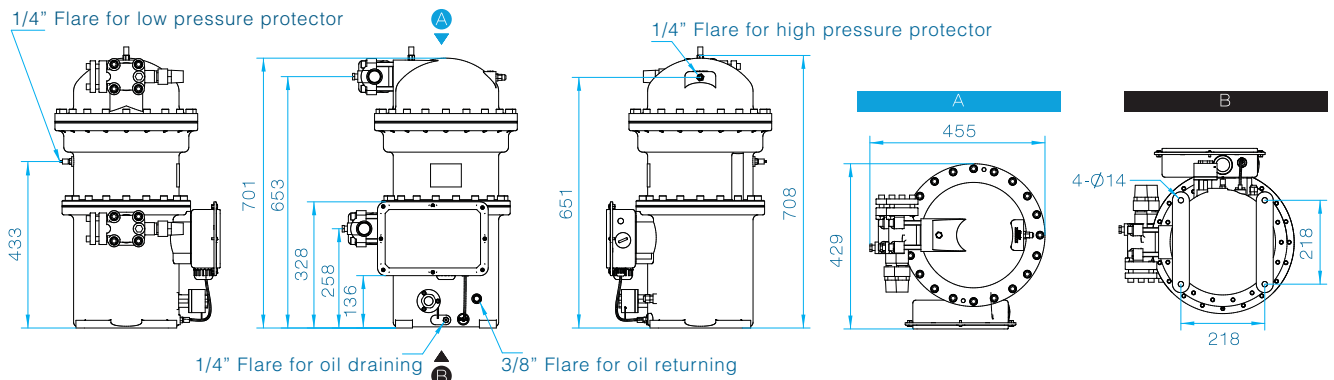
SEMI - HERMETIC SCROLL COMPRESSORS

Dimensions

HS 165/185/210-LD



HS 250/280/310-LD





HS Series

SEMI-HERMETIC SCROLL REFRIGERANT COMPRESSOR

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