

Manufacturer	Ipsen	
Model No	VTTCK 224	
Serial No		
Year	1991	
1. Space required		
Width	5	m
Height	4	m
Depth	6	m
2. Working space		
Width	450	mm
Height	400	mm
Depth	600	mm
3. Temperature		
Maximum temperature	1300	°C
Temperature uniformity	+ / - 5	°C
Convection 150°C to 800°C	+ / - 5	°C
Vacuum 600°C to 1200°C	+ / - 5	°C
4. Charge		
Max gross weight	200	kg
5. Energy		
Rating of heating	60	kw
Connected load	100	kva
Rated voltage (3 phase 50hz)	415	V
6. Vacuum		
Ultimate vacuum	10 ⁻²	mbar
Operating vacuum	10 ⁻²	mbar
Partial pressure nitrogen / argon	0.1 to 10	mbar
7. Pumping group		
Mechanical pump	Edwards	
Model No	E2M275	
Capacity	1420	l/min
Power	5.5	kw
Booster pump	Edwards	
Model No	EH1200	
Capacity	2870	l/min
Power	3	kw
8. Gas		
Nitrogen / Argon	Nitrogen	
Quenching gas pressure	5	bar
Gas consumption at max pressure	6	Nm ³ /cycle
Internal / external fan	Internal	
Power	55	Kw

9. Cycle features		
Pumping time to 10 ⁻² mbar range	<30	Min
Cooling time from 1200°C – 200°C	<15	Min
Heating time from 100°C – 1200°C	<40	Min
10. Control system		
Controller	SSI / VAS system	
PLC	Siemens	
Temperature / vacuum recorder	Honeywell	
Over temperature controller	Honeywell	
Pirani vacuum controller	Balzers	
Control thermocouples	Type S	
Overtemperature thermocouple	Type S	
Load thermocouples	Type N	
11. Water		
Min / Max water pressure	3.5	bar
Furnace water flow	10	m ³ /h
Quench water flow	25	m ³ /h
12. Hot zone		
Insulation	Graphite	
Heating element type	Graphite	
13. Plant gross weight		
Gross weight	8	T