



Osaka TS-443

Technical Specifications

		TS440/443/444 series
Volume flow rate (l/s)	N ₂	440
	H ₂	320
Maximum compression ratio(measured) ¹⁾	N ₂	2 × 10 ⁶
	H ₂	1 × 10 ³
Ultimate Pressure (After baking) Pa	Backed with two-stage Oil-sealed rotary pump	5 × 10 ⁻⁶
Maximum backing pressure	(Pa)	2 × 10 ³
Rotor speed	S ⁻¹ (rpm)	330(19800)
Start-up time in vacuum	min	10
Shut-down time in vacuum	min	30
Oil amount	ml	260
Permissible baking temperature at inlet	°C	120
Installation position	Permissible inclination: 10° max from vertical	
Frequency of oil replacement ²⁾	Every 10000h	
Bearing life ³⁾	30000	
Weight (without power supply)	kg	60
Cooling	Water-cooling	
Ambient temperature for guaranteeing ultimate pressure	°C	10~23
Permissible ambient temperature	°C	10~40
Permissible cooling water temperature	°C	10~35
Water temperature for guaranteeing ultimate pressure	°C	30 max.
Amount of cooling water required	l/min	1.5
Permissible pressure for cooling water system	kPa	600max.
Cooling water quality	Tap water or chiller circulating water	
Noise level	dB	<80 dB

*Gas purging function provided as standard

1) Maximum measured value

2).3) Subject to change depending on type of gas intaken.