

LJG-3000 Vacuum Pan dryer



WET CAKE PER BATCH	882	kg	DRY CAKE MASS
PARTICLE SIZE	0.5-1	μm	TOTAL CAKE MASS
CAKE HUMID DENSITY	1500	kg/m^3	TOTAL CAKE VOLUME
CAKE DRY DENSITY	1386	kg/m^3	Drying Temperature
MOISTURE	41	%mass	Steam Temperature
WATER MASS	1,085	kg	Steam Pressure

DRY CAKE MASS	1,561	kg
TOTAL CAKE MASS	2,646	kg
TOTAL CAKE VOLUME	1.764	m^3
Drying Temperature	150	$^{\circ}\text{C}$
Steam Temperature	180	$^{\circ}\text{C}$
Steam Pressure	10	barg

Drying Time	5	h
Minimum Evaporation Rate	217	kg/h

STEAM INLET	BY VENDOR	TEMPERATURE RATING
STEAM CONDENSATE	BY VENDOR	PRESSURE RATING
VENT	BY VENDOR	CONSTRUCTION MATERIAL
CAKE INLET	6"	POWER
CAKE DISCHARGE	BY VENDOR	

TEMPERATURE RATING	200 $^{\circ}\text{C}$
PRESSURE RATING	10 BARG
CONSTRUCTION MATERIAL	SS316
POWER	600 V, 3 ph, 60 Hz

Technical Data of Vacuum Pan Dryer

Number	Item	Unit	Model/specification
1	Model		LJG-3000
2	Total Volume	L	3000
3	Working Volume	L	1800
4	Dimension of Inner Chamber	mm	Φ2000X950
5	Vacuum Degree	Mpa	~ -0.096
6	Power of Motor	KW	55
7	Rotating Speed	RPM	5-12
8	Drying Temperature	°C	150
9	Design Steam Pressure	Bar	12
10	Using Power	V/HZ	600V,60HZ, 3Phases

Technical Data of Flanges

No.	Position	Specification of Flange (ANSI)
1	Feeding Port	Type of Flange: Class 150 Inner Diameter: 9.5 Inches (241mm) Outer Diameter: 11 Inches (280mm) Thickness: 1.34 Inches (34mm) Qty of Bolt Hole: 8PCS
2	Vacuum Port	Type of Flange: Class 150 Inner Diameter: 9.5 Inches (241mm) Outer Diameter: 11 Inches (280mm) Thickness: 1.34 Inches (34mm) Qty of Bolt Hole: 8PCS
3	Steam Inlet & Outlet Port	Type of Flange: Class 300 Inner Diameter: 2.6 Inches (66.5mm) Outer Diameter: 3.75 Inches (95.3mm) Thickness: 0.55 Inches (14mm) Qty of Bolt Hole: 4PCS
4	Condensate In & Out Port	Type of Flange: Class 150 Inner Diameter: 2.38 Inches (60.5mm) Outer Diameter: 3.5 Inches (88.9mm) Thickness: 0.55 Inches (14mm) Qty of Bolt Hole: 4PCS
5	Condenser & Condensate Tank	Type of Flange: Class 150 Inner Diameter: 17Inches (431.8mm) Outer Diameter: 19 Inches (482.6mm) Thickness: 1.25 Inches (31.75mm) Qty of Bolt Hole: 12PCS
6	Cooling Water Inlet & Outlet Port	Type of Flange: Class 150 Inner Diameter: 2.38 Inches (60.5mm) Outer Diameter: 3.5 Inches (88.9mm) Thickness: 0.55 Inches (14mm) Qty of Bolt Hole: 4PCS
7	Vacuum Inlet & Outlet Port	Type of Flange: Class 150 Inner Diameter: 2.38 Inches (60.5mm) Outer Diameter: 3.5 Inches (88.9mm) Thickness: 0.55 Inches (14mm) Qty of Bolt Hole: 4PCS

7. Scope of Supply

Name		Specification	Material	Unit	Quantity	Note
Main Dryer	Inner Chamber (16mm)	Φ2000X950	SUS316 L	As module	1	--Inspection Manhole: 17.7 Inches (450mm) --Unloading Port: 10 Inches (250mm) -Equipped with 2PCS observation window, 1PC temperature gauge, 1PC vacuum gauge -Design temperature 250 Centigrade
	Bottom Pan (35mm)	Φ2000	SUS316 L			
	Jacket(14mm)	Φ2130	SUS304			
	Shaft	Φ208	45#			
	Insulation Layer	100mm	Aluminum silicate			
	Outer Chamber	2.5mm	SUS304			
	Top Lid	Φ2000X10	SUS316 L			
	Insulation & Cover plate of Top Lid		SUS304 / Aluminum silicate			
Driving System	Flanges	Φ2140X40	SUS316 L	Pair	1	
	Speed Reducer	GKF		PC	1	Rotation speed 5-12rpm
	Driving motor	55kw		PC	1	TEFC Type Motor VFD Controlled Safety Standard: IP65
	Bracket		SUS304	As module	1	
	Coupling		A3	Pair	1	
	Mechanical Seal		SUS316 L	PC	1	Double end
	Bearing			PC	Each 1	SKF

	Oil Seal			PC	1	NOK
				PC	1	
	Bearing Base		A3	As module	1	
	Agitator		SUS316 L	As module	1	Strengthened Design
	Vacuum Filter	Size of Shell: 250*600mm	SUS16L	PC	6	0.5µm Sintering net Filtering Core Size: 60*400mm Equipped with Air Pulsing System
	Unloading Valve		SUS16L		1	Manual Gate Valve
	Control System	IP55	As module	PC	1	Major components are Siemens Brand Equipped with armored cable (between control cabinet to components in the supply scope) and glands Panel Designed according to UL508 Standard

Condensing & Vacuum System						
Condensing & Vacuum System	Condenser	15 m²	SUS316 L	PC	1	Include piping and valves
	Buffer Tank	150L	SUS316 L	PC	1	Include piping and valves Equipped with level sensor
	Condensate Pump	Power:2.2KW	SUS316 L	PC	1	Interlocked with buffer tank level sensor Safety Standard: IP65 Way of Connection: 1.5 Inches (38mm) clamp
	Vacuum Pump	P=11kw	As Module	PC	1	Water ring pump Safety Standard: IP65

List of One Year Spare Parts

No.	Item	Qty	Note
1	Bearing	1PC	Brand: SKF
2	Oil Seal	2PCS	Brand: NOK
3	Mechanical Seal of Vacuum Pump	1PC	
4	Mechanical Seal of Condensate Pump	1PC	
5	Seals of Pipeline	1SET	

