
















# W Rapid Thermal Process ALLWIN21 CORP.

Allwin21 Corp. is the exclusive licensed manufacturer of AG Associates Heatpulse 610 Rapid Thermal Processor. Allwin21 is manufacturing the AccuThermo AW 410 (2 to 4"), AW 610 (2 to 6") , AW 810(2 to 8") , AW 820(2 to 8") Atmospheric Rapid Thermal Processors and AccuThermo AW 810V(2 to 8") , AW 820V(2 to 8") Vacuum Rapid Thermo Processors (RTA RTO RTN RTP).

## RTP RTA RTN RTO TYPICAL APPLICATIONS

-  Ion Implant Activation
-  Polysilicon Annealing
-  Oxidation and Nitridation
-  Silicide Formation
-  Contact Alloying
-  GaAs Processing
-  Oxide Reflow

## RTP RTA RTN RTO TYPICAL APPLICATION INDUSTRIES

-  Chip Manufacture
-  LEDs
-  Compound Industry : GaAs, GaN, GaP, GaInP, InP and SiC
-  Optronics: Planar optical waveguides, LASERS, and VCSELs
-  Biomedical
-  MEMS
-  Nanotechnology
-  Solar Cell

## COMPARISON BETWEEN MODELS OF ACCUTHERMO AW SERIES RAPID THERMAL PROCESS

Comparing Item	AW 410		AW 610		AW 810		AW 820		AW 810V		AW 820V	
Type	Atmospheric RTP RTA								Vacuum RTP RTA			
	Desktop						Stand Alone		Desktop		Stand Alone	
	Manual loading											
Controller	Advanced Allwin21 PC Controller with real time control technology											
Lamp Heating	Top&Bottom								Top&Bottom			
Lamps Quantity	17(8+9)		21(10+11)		27(13+14)		27(13+14)		27(13+14)		27(13+14)	
Lamp Zones	4		4 (3phase)or 2(1Phase)		4		4		4		4	
Isolated Quartz Tube	Yes		Yes		Yes		Yes		No		No	
Gold plating plates	Six Sides (Top,Bottom,Front,Rear,Left,Right)								Top,Bottom in Lamp Module only			
Oven Chamber	Water cooled											
Substrate Size(Inch)	Up to 4"		Up to 6"		Up to 8"		Up to 8"		Up to 8"		Up to 8"	
Substrate Thickness	<7 mm				<10mm				<10mm		<10mm	
Substrate Material	Transparent, Semitransparent, Nontransparent											
Substrate Shape	Round or Square or Abnormity											
Highest Temperature (°C)	800	1250	800	1250	800	1250	800	1250/1500	800	1250/1500	800	1250/1500
Temperature Sensor (ERP is Option)	TC	ERP	TC	ERP	TC	ERP	TC	ERP	TC	Special TC	TC	Special TC
TC Wafer (Single Point, Option)	2",4"		2",4",6"		2",4",6",8"				2",4",6",8"		2",4",6",8"	
Omega Meter(Optional)	CL23A											
Longest Steady Time @1000 °C (Minutes)	5				10		30		10		30	
Process Gas lines with MFCs (Option)	1, or 2,3,4, or 5,6				2,3,4		2,3,4,5,6		2,3		2,3,4,5	
Atmospheric Function (Option)	N/A								Option			
Vacuum Pressure Control	No								Option (50 mtor to 13 Tor) or 10-6 torr			
Base Pressure	N/A								50 mtor or 10-6 Torr			
Power Phase	3		1 or 3		3							
Power Hz and Voltage	50/60 Hz, AC 200V, 208V, 220V, 380V, 415V.											
Power Amps	60		70 or 100		100				100		100	
Chamber Cooling	35°C maximum, 3°C dew point, 2 gpm (7.5 lpm) minimum, 35 to 50 psi (2.5 to 3.5 kg/cm <sup>2</sup> ), Pre-filtered water											
Susceptor (Option)	Base&Cover								Base&Cover			
Susceptor Material	Graphite with SiC coating or Customized											
Susceptor Size(Inch,Sample Size)	2,3,4		2,3,4,5,6,4X2",3X3"		4,5,6,8,4X4",5X3",16X2"				4,5,6,8,4X4",5X3",16X2"			
Dimension( DxWxH, Inch)	17x18x11,or 17x26x11, or 17x30x11				31x34x16		38X39X70		31x34x16		38X39X70	
Weight(Lbs)	250				300		1000		300		1000	
Lead Time (Weeks, Standard Config)	2				2		8		8		8	

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