

## Cyclone Pit Furnace - Gas Fired

Cyclone gas-fired pit furnaces are capable of temperatures up to 1250°F (1400°F optional). The furnaces have a separate combustion/fan chamber that provides heat to the work chamber. The workload is heated when the supply gas is burned in the heating chamber then pressurized by a recirculating fan. Pressure is created above the load at a high velocity with minimal temperature drop. Combustion gases are forced out through a flue after passing through the workload. Cycle time is minimized by rapid heat up rates. Heavy, dense loads may be uniformly treated, maximizing throughput. Temperature uniformity is typically  $\pm 10^\circ\text{F}$ ; when specific fixturing is used,  $\pm 5^\circ\text{F}$  can be attained.

Loading the Cyclone pit furnace is virtually foolproof. Because the fan and combustion components are separate from the load chamber, damage from incidental contact is eliminated. The entire work chamber is alloy-lined for maximum durability.

The Cyclone is designed for convenient maintenance. The fan motor is also externally accessible for easy service and replacement.



### Features

- Work chamber isolated from heated chamber
- Compact size is ideal for work cell/JIT layout
- Alloy-lined work chamber with ceramic insulation
- High velocity re-circulating fan
- Easy lift cover
- Complete, pre-wired, freestanding control panel with disconnect switch
- Excess temperature instrument

### Options

- 1400°F operation
- Retorts
- Air inlet/exhaust for fume removal, fast cooling, or low temperature operation
- Various control and recorder options
- Work basket
- AMS2750E uniformity testing
- Start-up/installation/training services

### Applications

- Tempering
- Stress Relieving
- Aging
- Annealing of copper alloys
- Solution treatment of aluminum magnesium



## Specifications

Model	Work Space (in.)		BTU x1000	Fan HP	Blower HP	Max Load Wt. Lb	Appropriate Dimensions (in.)						
	Dia.	Depth					Height	Width	Length	Overall Height	Drive Side	Fan Removal	Furnace Radius
12-1630-G12	16	30	185	1.5	1.5	700	51	50	62	78	31	46	20
12-2226-G12	22	26	260	3	1.5	1140	47	55	73	75	34	50	21
12-2520-G12	25	20	305	3	1.5	1140	41	57	77	73	35	69	24
12-2530-G12	25	30	260	3	1.5	1700	51	57	77	83	35	69	24
12-2536-G12	25	36	375	5	1.5	2050	63	50	94	94	28	69	24
12-2548-G12	25	48	365	3	1.5	2730	69	57	77	101	35	69	24
12-2836-G12	28	36	355	3	1.5	2570	63	61	94	99	36	69	25
12-3336-G12	33	36	410	3	1.5	3560	62	63	93	99	36	53	27
12-3348-G12	33	48	460	7.5	1.5	4750	75	66	93	124	36	53	27
12-3360-G12	33	60	490	7.5	1.5	5940	87	66	93	140	36	53	27
12-3836-G12	38	36	500	7.5	1.5	4730	79	62	117	116	30	79	31
12-3848-G12	38	48	495	7.5	1.5	6300	91	62	117	128	30	79	31
12-3860-G12	38	60	545	7.5	1.5	7880	103	62	117	140	30	79	31
12-3872-G12	38	72	590	7.5	1.5	9450	115	62	117	152	30	79	31
12-2884-G12	38	84	620	7.5	1.5	11030	127	62	120	164	30	79	31
12-3896-G12	38	96	630	7.5	1.5	12600	139	62	120	176	30	79	31
12-38108-G12	38	108	720	10	1.5	14180	155	63	129	195	29	77	32
12-4848-G12	48	48	500	10	1.5	10050	92	75	137	135	28	75	37
12-4860-G12	48	60	630	10	1.5	12570	104	75	137	147	28	75	37
12-4872-G12	48	72	750	10	2	15080	116	75	137	159	30	75	37
12-4896-G12	48	96	800	10	2	20110	140	78	140	183	30	75	37
12-6048-G12	60	48	760	15	2	15710	98	87	153	141	32	79	44
12-6060-G12	60	60	825	15	2	19635	110	87	154	151	32	79	44
12-6072-G12	60	72	760	15	2	23560	120	87	153	160	32	79	44
12-6084-G12	60	64	900	15	2	27490	132	87	153	172	32	79	44
12-6096-G12	60	96	1500	25	3	31420	148	114	142	190	52	85	44
12-7248-G12	72	48	900	15	2	22620	101	100	181	142	34	101	50
12-7260-G12	72	60	556	20	1.5	28270	113	100	181	154	34	101	50
12-7272-G12	72	72	1000	15	2	33930	125	100	181	166	34	101	50
12-7284-G12	72	84	1050	15	2	39580	126	100	174	171	34	101	50
12-9084-G12	90	84	1050	15	2	61850	125	108	176	157	30	85	54

