

# LINDBERG/MPH

## ELECTRIC BOX FURNACES

For applications from

**350° F to  
2500° F**



### 350° F - 1250° F

#### Toolroom Cyclone® Electric Box Furnaces

Lindberg/MPH's Toolroom Cyclone is ideal for tempering, pre-heating tools and dies, and many other applications requiring accurate temperature control to 1250° F. This economical furnace uses the forced convection heating principal. Recirculates large volumes of heated air through the work chamber to provide exceptionally uniform heat transfer and highest operating efficiency.



### 350° F - 1250° F

#### Production Cyclone Electric Box Furnaces

Lindberg/MPH offers production Cyclone's in a wide range of standard sizes and can be modified for operation up to 1400° F. These heavy-duty, long-life units provide fast, efficient, and economical heating for a variety of application needs. Forced convection design, which separates heating chamber from work chamber, prevents radiant or one-sided heat transfer. A high-velocity heat circulation system assures uniform distribution of heated air to all surfaces of the work being processed.

Note: Other sizes available – this Cyclone furnace also can be modified for 1400° F operation.

#### Toolroom Cyclone Specifications

Type 11 *	Work Dimensions (in)			Approx. Overall Dimensions (in)			Input (kw)	Fan (HP)	Approx. Weight (lbs)
	Width	Depth	Height	Width	Depth	Height			
11-EC-121618-12	12	16	18	34	46	80	15	½	1742
11-EC-152418-12	15	24	18	38	68	80	17	1½	2250
11-EC-154818-12	15	48	18	38	84	80	30	3	3902
11-EC-183618-12	18	36	18	41	119	80	27	3	3395
11-EC-202418-12	20	24	18	43	68	80	22	3	2403
11-EC-203018-12	20	30	18	43	74	80	25	3	3218
11-EC-242418-12	24	24	18	47	68	80	28	3	3086
11-EC-243618-12	24	36	18	47	80	80	32	3	4100
11-EC-243624-12	24	36	24	47	80	82	37	3	4905
11-EC-243630-12	24	36	30	47	80	85	40	3	5600
11-EC-244818-12	24	48	18	47	92	80	35	3	5247
11-EC-244824-12	24	48	24	47	92	82	43	3	5996

\*Designed for operation on 230/3/60 or 460/3/60 power supply. For other voltages, consult factory.

#### Production Cyclone Specifications

Type 11 *	Work Dimensions (in)			Approx. Overall Dimensions (in)			Input (kw)	Fan (HP)	Approx. Weight (lbs)
	Width	Depth	Height	Width	Depth	Height			
11-EC-242418-12	24	24	18	64	75	95	28	3	3494
11-EC-243618-12	24	36	18	64	90	95	34	3	4300
11-EC-243624-12	24	36	24	64	90	110	40	3	4795
11-EC-243630-12	24	36	30	64	90	122	45	3	5247
11-EC-244818-12	24	48	18	64	102	95	41	5	5092
11-EC-244824-12	24	48	24	64	102	110	47	5	5698
11-EC-246024-EC	24	60	24	64	114	110	53	5	6194
11-EC-303624-12	30	36	24	70	90	110	48	5	5247
11-EC-306030-12	30	60	30	70	114	122	68	5	7694
11-EC-363624-12	36	36	24	76	80	110	50	7½	5798
11-EC-364824-12	36	48	24	76	112	110	59	7½	6801
11-EC-367224-12	36	72	24	76	136	112	85	7½	8300
11-EC-484848-12	48	48	48	88	110	165	95	7½	10000
11-EC-487260-12	48	72	60	88	133	185	136	10	14900
11-EC-609648-12	60	96	48	100	170	165	135	15	15600

\*Designed to operate on 230/3/60 or 460/3/60 power supply. For other voltages, consult factory.



### 1800° F

#### Corrtherm® Element Atmosphere Electric Box Furnaces

This general purpose electric box furnace is used for hardening, carburizing, normalizing, and annealing. It incorporates Lindberg/MPH's unique Corrtherm heating elements. A highly efficient, low-voltage element that can work directly in an endothermic atmosphere environment without being affected by current leakage from carbon buildup. The standard CT and all other atmosphere furnaces are equipped with air-gas flame curtain burner, atmosphere inlet piping, burn-off can, and pilot burner.

Note: Other sizes available. Consult local sales office.

#### Corrtherm Element Atmosphere 1800° Specifications

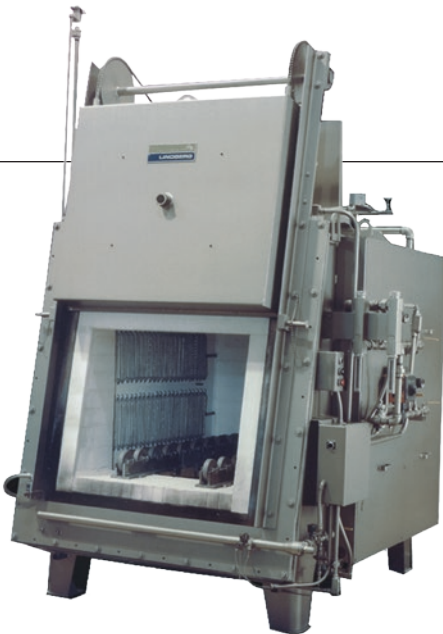
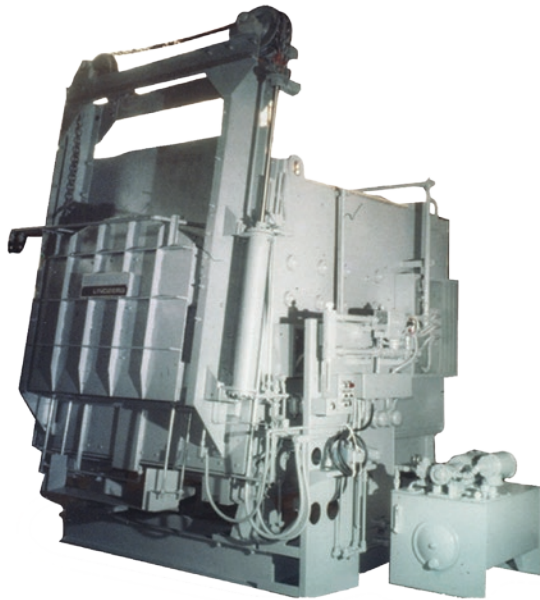
Type 11 *	Work Dimensions (in)			Approx. Overall Dimensions (in)			Input (kw)	Fan (HP)	Approx. Weight (lbs)
	Width	Depth	Height	Width	Depth	Height			
11-CT-243618-18A	24	36	18	72	86	88	65	3	8498
11-CT-243624-18A	24	36	24	72	86	98	80	3	8994
11-CT-244818-18A	24	48	19	72	99	92	80	5	9501
11-CT-244824-18A	24	48	24	75	99	98	100	5	9997
11-CT-304824-18A	30	48	24	78	99	98	120	5	10703
11-CT-304830-18A	30	48	30	78	99	104	145	5	11397

\*Designed to operate on 460/3/60 power supply.

#### Rod Element Atmosphere 2000° F Specifications

Type 11 *	Work Dimensions (in)			Approx. Overall Dimensions (in)			Input (kw)	Approx. Weight (lbs)
	Width	Depth	Height	Width	Depth	Height		
11-RO-101810-20A	10	18	10	37	55	83	12	2303
11-RO-122410-20A	12	24	10	42	60	84	15	2502
11-RO-153012-20A	15	30	12	41	69	91	22	3097
11-RO-183618-20A	18	36	18	47	79	103	33	4100
11-RO-243618-20A	24	36	18	52	69	97	40	4662
11-RO-244820-20A	24	48	20	54	93	92	45	5952
11-RO-246020-20A	24	60	20	54	106	90	60	7000
11-RO-246024-20A	24	60	24	54	100	102	64	7297
11-RO-304820-20A	30	48	20	76	93	102	51	6602
11-RO-305420-20A	30	54	20	59	99	102	60	7100
11-RO-364824-20A	36	48	24	76	87	106	68	7800
11-RO-366030-20A	36	60	30	80	100	126	80	10000
11-RO-367224-20A	36	72	24	78	115	104	80	10400
11-RO-368424-20A	36	84	24	80	126	116	95	11600
11-RO-484836-20A	48	48	36	98	92	130	90	11500
11-RO-484848-20A	48	48	48	96	90	147	110	13503
11-RO-486030-20A	48	60	30	97	102	130	100	12250
11-RO-487236-20A	48	72	36	97	123	128	130	15630
11-RO-487248-20A	48	72	48	97	123	147	115	17251
11-RO-489636-20A	48	96	36	92	151	132	135	18750
11-RO-4812036-20A	48	120	36	92	175	132	2@80	22002

\*Designed to operate on 230/3/60 or 460/3/60 power supply. For other voltages, consult local sales office.



### 2000° F

#### Rod Overbend Element Atmosphere Electric Box Furnaces

This atmosphere furnace provides the precision control and temperature uniformity required in a variety of metallurgical applications. When used with Lindberg/MPH's HYEN® endothermic atmosphere generator, the furnace assures work surfaces that are free from oxidation and scale. All rod over-bend heating elements are 80% nickel, 20% chromium.

Note: Furnaces 30" wide or smaller have sloping front doors without door elements. Large furnaces have heating elements in vertical lift doors and require water cooling. (Open drain system is standard).



**Silicon Carbide Element Atmosphere 2500° F Specifications**

Type 11	Work Dimensions (in)			Approx. Overall Dimensions (in)			Input (kw)	No. Elements	Approx. Weight (lbs)
	Width	Depth	Height	Width	Depth	Height			
11-SC-10188-25A	10	18	8	41	64	79	30	10	1962
11-SC-122410-25A	12	24	10	46	69	82	38	12	2800
11-SC-153012-25A	15	30	12	49	74	89	50	12	3218
11-SC-183618-25A	18	36	18	54	84	102	68	16	5247
11-SC-186012-25A	18	60	12	54	96	91	75	24	6702
11-SC-243618-25A	24	36	18	58	86	95	75	16	6294
11-SC-243624-25A	24	36	24	58	83	111	80	16	7606
11-SC-244818-25A	24	48	18	58	85	95	84	20	8002
11-SC-244824-25A	24	48	24	58	95	111	90	20	9501
11-SC-364824-25A	36	48	24	77	105	131	95	20	12301
11-SC-367224-25A	36	72	24	77	125	131	115	28	16900
11-SC-369624-25A	36	96	24	77	149	131	130	32	21594
11-SC-486048-25A	48	60	48	108	123	182	130	20	26091

\*Designed to operate on 230/3/60 or 460/3/60 power supply. For other voltages, consult local sales office.

## 2500° F

### Silicon Carbide Element Atmosphere Electric Box Furnaces

The silicon carbide element atmosphere furnace is designed to deliver the precision high-temperature uniformity required in the treating of high alloy and high speed tool steels. It provides efficient, long-life service under heavy usage. Highest quality insulating fire brick backed with block insulation is used for optimum thermal efficiency. When used with Lindberg/MPH's HYEN® endothermic generator, the furnace assures work surfaces free from oxidation and decarburization.

### Gas-fired box furnaces

Lindberg/MPH also offers gas-fired atmosphere and non-atmosphere box furnaces in operating temperature range from 374° F to 2500° F.

Note: Furnaces 36" wide or larger require water cooling in front plate and/or door area. (Open drain system is standard).