

LINDBERG/MPH

ELECTRIC PIT FURNACES

For applications from

**350° F to
2500 °F**



Lindberg/MPH® Electric Pit Furnaces

Versatile, easy to operate, maintain and control. These furnaces are atmosphere tight, and built to last – with rugged reinforced steel shells and high quality insulation that delivers maximum thermal efficiency.

For optional equipment, such as baskets, fixtures, retorts, and special controls, or for more data or assistance on pit furnace operation, please contact the Lindberg/MPH sales office nearest you.

Lindberg/MPH also offers gas-fired atmosphere and non-atmosphere pit furnaces in operating ranges from 350° F to 2500° F. All dimensions are approximate.



Cyclone® Electric Pit Furnace Specifications (12" to 33" Diameter)

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Input (kw)	Fan (HP)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height			
12-EC-1216-12	12"	16"	4' - 7"	7' - 0"	5' - 2"	15	½	1350
12-EC-1620-12	16"	20"	6' - 0"	7' - 6"	6' - 11"	27	1½	1700
12-EC-1624-12	16"	24"	6' - 0"	7' - 6"	6' - 11"	27	1½	1800
12-EC-1630-12	16"	30"	6' - 0"	7' - 6"	7' - 6"	30	3	1875
12-EC-1636-12	16"	36"	6' - 0"	7' - 6"	8' - 6"	33	3	1950
12-EC-1648-12	16"	48"	6' - 0"	7' - 6"	9' - 6"	39	3	2025
12-EC-2226-12	22"	26"	6' - 6"	7' - 6"	9' - 6"	39	3	2400
12-EC-2236-12	22"	36"	6' - 6"	7' - 6"	7' - 6"	42	3	2670
12-EC-2248-12	22"	48"	6' - 6"	7' - 6"	8' - 7"	48	3	4000
12-EC-2260-12	22"	60"	6' - 6"	8' - 0"	11' - 3"	57	3	6200
12-EC-2520-12	25"	20"	6' - 6"	7' - 7"	4' - 3"	45	3	2900
12-EC-2530-12	25"	30"	6' - 6"	7' - 7"	5' - 0"	45	3	3400
12-EC-2536-12	25"	36"	6' - 6"	7' - 7"	5' - 6"	48	3	3700
12-EC-2548-12	25"	48"	6' - 6"	7' - 7"	6' - 6"	52	3	4000
12-EC-2560-12	25"	60"	7' - 7"	9' - 3"	8' - 9"	60	3	4300
12-EC-2828-12	28"	28"	7' - 3"	7' - 7"	7' - 2"	48	3	3050
12-EC-2836-12	28"	36"	7' - 3"	7' - 7"	7' - 10"	52	3	3600
12-EC-2848-12	28"	48"	7' - 3"	7' - 7"	8' - 11"	60	5	4000
12-EC-3336-12	33"	36"	8' - 1"	10' - 0"	9' - 6"	65	5	4350
12-EC-3348-12	33"	48"	8' - 1"	10' - 0"	10' - 6"	68	5	4500
12-EC-3360-12	33"	60"	8' - 1"	10' - 0"	11' - 2"	70	5	4920
12-EC-3372-12	33"	72"	8' - 1"	10' - 0"	12' - 2"	84	5	5900
12-EC-3384-12	33"	84"	8' - 1"	10' - 0"	13' - 2"	90	5	7000

Cyclone® Electric Pit Furnace Specifications (38" to 72" Diameter)

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Input (kw)	Fan (HP)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height			
12-EC-3836-12	38"	36"	7' - 5"	9' - 6"	8' - 7"	66	5	6100
12-EC-3848-12	38"	48"	7' - 5"	9' - 6"	9' - 7"	75	5	6300
12-EC-3860-12	38"	60"	7' - 5"	9' - 6"	10' - 7"	87	5	6500
12-EC-3872-12	38"	72"	7' - 5"	9' - 6"	11' - 7"	95	7½	7300
12-EC-3884-12	38"	84"	7' - 5"	10' - 0"	12' - 7"	100	7½	7500
12-EC-3896-12	38"	96"	7' - 5"	10' - 0"	13' - 7"	105	7½	7800
12-EC-4348-12	43"	48"	7' - 11"	9' - 9"	9' - 9"	80	7½	7460
12-EC-4360-12	43"	60"	7' - 11"	9' - 9"	10' - 11"	85	7½	7900
12-EC-4372-12	43"	72"	9' - 11"	9' - 9"	11' - 11"	105	7½	8500
12-EC-4384-12	43"	84"	9' - 11"	9' - 9"	12' - 11"	110	7½	9000
12-EC-4848-12	48"	48"	9' - 0"	10' - 3"	10' - 6"	90	10	9700
12-EC-4860-12	48"	60"	9' - 0"	10' - 3"	11' - 6"	100	10	10300
12-EC-4872-12	48"	72"	9' - 0"	10' - 3"	12' - 6"	126	10	10900
12-EC-4884-12	48"	84"	9' - 0"	10' - 3"	13' - 6"	126	10	11500
12-EC-4896-12	48"	96"	9' - 0"	10' - 3"	14' - 6"	135	10	12150
12-EC-48108-12	48"	108"	9' - 0"	10' - 3"	15' - 6"	120	10	12750
12-EC-6072-12	60"	72"	12' - 4"	11' - 5"	12' - 10"	125	15	14500
12-EC-6084-12	60"	84"	12' - 4"	11' - 5"	13' - 10"	135	15	15000
12-EC-6096-12	60"	96"	12' - 4"	11' - 5"	14' - 10"	145	15	15400
12-EC-60168-12	60"	168"	12' - 4"	11' - 5"	15' - 10"	400	25	48000
12-EC-7272-12	72"	72"	13' - 4"	12' - 6"	12' - 8"	145	15	14800
12-EC-7284-12	72"	84"	13' - 4"	12' - 6"	13' - 8"	243	25	15500

1250° F

Cyclone® Electric Tempering Furnace

The Cyclone forced air convection principle assures uniform heating for dense workloads. Built for precise, economical tempering, it is also excellent for stress relieving, annealing copper alloys, and solution and aging operations of aluminum and magnesium. Standard option allows rating for continuous 1400°F operation. This extensive line features ease of charging and service, and a long-life element. Larger furnaces are equipped with pneumatic cover lifts.

NOTE: Furnaces 38" and larger have air operated covers

1750° F

Super Cyclone® Electric Furnace

Eliminates distortion during air hardening, tempering, annealing, normalizing, and special heating because the Cyclone forced convection design prevents one-sided heating. These trouble-free furnaces allow quick load handling from furnace to quench. Accurate control of heating and cooling rates makes them ideal for stress relieving, process and isothermal annealing, and other applications requiring a specific cycle.

Super Cyclone® Electric Furnace Specifications

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Input (kw)	Fan (HP)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height			
12-RO-1624-17A	16"	24"	3' - 11"	6' - 6"	4' - 9"	35	3	3500
12-RO-2226-17A	22"	26"	4' - 6"	7' - 5"	5' - 2"	63	3	4500
12-RO-2530-17A	25"	30"	4' - 11"	8' - 2"	6' - 3"	70	5	6000
12-RO-2536-17A	25"	36"	4' - 11"	8' - 2"	6' - 9"	77	5	6700
12-RO-2548-17A	25"	48"	4' - 11"	8' - 2"	7' - 9"	83	5	7100
12-RO-2836-17A	28"	36"	5' - 3"	8' - 4"	6' - 9"	83	5	7500
12-RO-2848-17A	28"	48"	5' - 7"	9' - 3"	7' - 10"	92	5	8000
12-RO-2860-17A	28"	60"	5' - 7"	9' - 4"	8' - 11"	105	5	8700
12-RO-3336-17A	33"	36"	5' - 8"	9' - 7"	9' - 0"	92	5	8500
12-RO-3348-17A	33"	48"	5' - 9"	9' - 8"	10' - 1"	105	5	9100
12-RO-3360-17A	33"	60"	5' - 9"	9' - 9"	11' - 2"	120	5	10000
12-RO-3836-17A	38"	36"	6' - 0"	9' - 7"	11' - 2"	105	5	10600
12-RO-3848-17A	38"	48"	6' - 1"	9' - 7"	11' - 2"	126	5	11200



1250° F

Nitriding Electric Pit Furnace

Case hardens gears, shafts, pins, bearings, aircraft parts. With modified valving arrangement, it bright tempers and performs all applications of Lindberg/MPH's steam atmosphere furnace. Tube-type heat exchanger cools circulating ammonia atmosphere with minimum water consumption. Available with controls for single stage nitriding, and alternate arrangement for "flow" process two-stage nitriding.

Nitriding Electric Pit Furnace Specifications

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Input (kw)	Fan (HP)	Max. Stream (lbs. per hr)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height				
12-HC-1620-12A	16"	20"	5' - 1"	5' - 6"	5' - 10"	28	1	1	3700
12-HC-2226-12A	22"	26"	7' - 6"	6' - 6"	6' - 9"	44	2	1	4700
12-HC-2530-12A	25"	30"	7' - 8"	6' - 6"	7' - 6"	53	3	1½	6200
12-HC-2828-12A	28"	28"	7' - 8"	7' - 3"	7' - 2"	60	3	2	7500
12-HC-2836-12A	28"	36"	7' - 8"	7' - 3"	7' - 11"	65	3	2	7700
12-HC-3348-12A	33"	48"	8' - 7"	8' - 1"	9' - 2"	88	5	3	9300
12-HC-3354-12A	33"	54"	8' - 7"	8' - 3"	11' - 0"	92	5	3	9700
12-HC-3384-12A	33"	84"	8' - 7"	8' - 3"	12' - 10"	100	7 ½	3	12300
12-HC-3860-12A	38"	60"	8' - 10"	9' - 6"	11' - 4"	105	7 ½	3	12300
12-HC-3872-12A	38"	72"	8' - 10"	9' - 6"	11' - 6"	120	7 ½	3	12900
12-HC-4860-12A	48"	60"	9' - 0"	11' - 0"	11' - 6"	115	7 ½	3	13500
12-HC-6036-12A	60"	36"	13' - 6"	14' - 0"	13' - 10"	115	10	3	16700





Corrtherm® Atmosphere Electric Pit Furnace Specifications

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Total Input (kw)	Input/Zone (kw)			Fan (HP)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height		1st	2nd	3rd		
12-CT-2436-18A	24"	36"	6'-0"	9'-9"	9'-8"	70	35	35	-	1	10000
12-CT-2448-18A	24"	48"	6'-0"	9'-9"	10'-6"	800	40	40	-	1	11000
12-CT-2460-18A	24"	60"	6'-0"	10'-3"	13'-4"	90	45	45	-	1	11500
12-CT-2848-18A	28"	48"	6'-4"	10'-0"	10'-5"	90	45	45	-	1½	13000
12-CT-2860-18A	28"	60"	6'-4"	10'-10"	12'-4"	99	33	33	33	1½	14000
12-CT-2872-18A	28"	72"	7'-0"	10'-10"	15'-4"	105	35	35	35	2	14500
12-CT-3348-18A	33"	48"	8'-3"	8'-11"	10'-2"	100	50	50	-	5	15000
12-CT-3354-18A	33"	54"	8'-3"	8'-11"	10'-2"	100	50	50	-	5	15500
12-CT-3360-18A	33"	60"	8'-3"	8'-11"	12'-9"	105	35	35	35	5	16000
12-CT-3836-18A	38"	36"	9'-4"	11'-6"	10'-7"	100	50	50	-	2	16300
12-CT-3848-18A	38"	48"	10'-0"	11'-8"	11'-7"	110	55	55	-	2	19900
12-CT-3860-18A	38"	60"	10'-0"	11'-8"	12'-7"	120	40	40	40	2	17500
12-CT-3872-18A	38"	72"	10'-0"	11'-9"	12'-11"	135	45	45	45	2	18100
12-CT-3896-18A	38"	96"	10'-0"	11'-9"	14'-9"	150	50	50	50	2	18500
12-CT-4848-18A	48"	48"	10'-7"	12'-9"	12'-2"	120	60	60	-	3	22500
12-CT-4872-18A	48"	72"	10'-7"	12'-9"	14'-2"	180	60	60	60	3	224500
12-C-6024-18A	60"	24"	11'-0"	15'-0"	8'-0"	100	100	-	-	3	20000
12-CT-6448-18A	64"	48"	12'-6"	15'-0"	12'-8"	160	80	80	-	3	24000
12-CT-6460-18A	64"	60"	12'-6"	15'-9"	13'-6"	180	90	90	-	5	26000
12-CT-7272-18A	72"	72"	14'-0"	18'-0"	14'-0"	250	250	-	-	5	33100
12-CT-72117-18A	72"	117"	14'-0"	19'-4"	14'-0"	240	80	80	80	7½	37200

1850° F

Corrtherm® Atmosphere Electric Pit Furnace

This carburizing, neutral hardening, and normalizing furnace features extremely rugged, low voltage Corrtherm elements. Heat is radiated directly to the work with no internal baffle or retort between work load and element. Long life, proven in full service applications, is but one of its many advantages. Single or multiple zones of control assure proper temperature uniformity throughout the operating range.

Steam Tempering Electric Pit Furnace Specifications

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Input (kw)	Fan (HP)	Max. Stream (lbs. per hr)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height				
12-HC-1620-14A	16"	20"	4'-4"	7'-3"	9'-10"	28	0.75	30	3500
12-HC-2226-14A	22"	26"	4'-10"	7'-4"	10'-5"	44	2	50	4500
12-HC-2530-14A	25"	30"	4'-10"	7'-7"	10'-10"	53	3	60	6000
12-HC-2828-14A	28"	28"	5'-3"	7'-9"	10'-10"	60	3	75	7300
12-HC-2836-14A	28"	36"	5'-5"	7'-11"	11'-8"	65	3	85	7500
12-HC-3336-14A	33"	36"	5'-7"	8'-0"	11'-8"	75	3	120	8500
12-HC-3348-14A	33"	48"	5'-7"	8'-0"	12'-5"	88	5	160	9100
12-HC-3354-14A	33"	54"	5'-7"	8'-0"	13'-2"	92	5	175	9500
12-HC-3860-14A	38"	60"	6'-0"	8'-4"	14'-0"	105	7½	210	12100
12-HC-3872-14A	38"	72"	6'-0"	8'-4"	14'-7"	120	7½	250	12600

1400° F

Steam Tempering Electric Pit Furnace

This versatile forced-steam furnace tempers and blues a variety of materials including high-speed cutting tools. Impacts corrosion resistance to gray iron castings. Increases compressive strength and hardness of iron powder parts. Reduces cleaning and pickling after heat treating beryllium, copper, aluminum, and other non-ferrous parts. No retort required.



1850° F Rod Overbend Element Atmosphere Pit Furnace

Compact, easy to maintain and operate, this furnace is excellent for hardening, normalizing, and annealing of production parts. Furnaces in this line have single or multiple zones of control, assuring uniform temperatures from top to bottom. Covers in larger sizes are pneumatically operated. No retort required.

Rod Element Atmosphere (and non-atmosphere) Electric Pit Furnace Specifications

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Total Input (kw)	Input/Zone (kw)			Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height		1st	2nd	3rd	
12-RO-1624-18A	16"	24"	6' - 8"	6' - 8"	8' - 4"	36	12	24	-	3800
12-RO-2030-18A	20"	30"	7' - 0"	8' - 0"	8' - 8"	45	15	30	-	4100
12-RO-2060-18A	20"	60"	7' - 0"	8' - 0"	11' - 2"	75	25	25	25	5100
12-RO-2436-18A	24"	36"	8' - 6"	8' - 6"	9' - 0"	60	20	40	-	7000
12-RO-2448-18A	24"	48"	8' - 6"	8' - 6"	10' - 0"	75	25	50	-	7400
12-RO-2836-18A	28"	36"	9' - 0"	9' - 6"	9' - 1"	75	25	50	-	7800
12-RO-2854-18A	28"	54"	9' - 0"	9' - 6"	11' - 8"	90	30	30	30	8200
12-RO-3848-18A	38"	48"	9' - 0"	9' - 6"	10' - 3"	90	45	45	-	11500
12-RO-3854-18A	38"	54"	9' - 0"	9' - 6"	11' - 2"	105	35	35	35	13100
12-RO-3872-18A	38"	72"	9' - 0"	9' - 6"	12' - 3"	120	40	40	40	14800
12-RO-4872-18A	48"	72"	9' - 0"	10' - 2"	12' - 5"	150	50	50	50	20100
12-RO-4884-18A	48"	84"	9' - 0"	10' - 2"	13' - 7"	165	55	55	55	20900
12-RO-6072-18A	60"	72"	12' - 0"	12' - 0"	12' - 10"	180	60	60	60	22800
12-RO-60109-18A	60"	109"	13' - 5"	25' - 0"	15' - 0"	270	90	90	90	34150

1850° F Rod Overbend Element Retort Pit Furnace

An automatic furnace for carburizing, carbonitriding, and bright-annealing non-ferrous metals; and for neutral hardening steels, cast and malleable iron, and other magnetic materials. Rod overbend heating elements deliver high efficiency in single and multiple zone heating. Motor driven fan recirculates protective gases through the retort.

Rod Element Retort Electric Pit Furnace Specifications

Type No.	Work Dimensions (in)		Overall Dimensions (in)			Total Input (kw)	Input/Zone (kw)			Fan (HP)	Shipping Weight (lbs)
	Dia.	Depth	Width	Length	Height		Top	Bottom	Cover		
12-RP-1020-18R	10"	20"	3' - 7"	4' - 2"	6' - 2"	17	8	9	-	1/3	2800
12-RP-1225-18R	12"	25"	4' - 5"	4' - 11"	7' - 11"	35	14	21	-	1/2	4600
12-RP-1430-18R	14"	30"	5' - 0"	5' - 6"	9' - 5"	52	16	36	-	1	6000
12-RP-1824-18R	18"	24"	5' - 4"	5' - 9"	8' - 10"	63	25	38	-	1	6800
12-RP-1836-18R	18"	36"	5' - 4"	5' - 9"	9' - 10"	74	24	50	-	1	7500
12-RP-2436-18R	24"	36"	5' - 8"	6' - 3"	10' - 8"	97	24	73	-	3	9500
12-RP-2448-18R	24"	48"	5' - 8"	6' - 3"	11' - 8"	108	24	39	45	3	10700
12-RP-2460-18R	24"	60"	5' - 8"	6' - 3"	12' - 8"	135	24	41	70	3	11900
12-RP-2472-18R	24"	72"	5' - 8"	6' - 3"	13' - 8"	139	24	46	69	3	13100
12-RP-3636-18R	36"	36"	6' - 11"	7' - 1"	10' - 11"	134	44	90	-	5	10500

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