

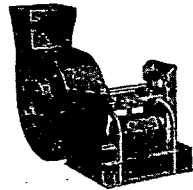
The Whitty Company, Inc.

86 Western Avenue — Boston 34, Mass.

INDUCED AND FORCED DRAFT FANS



COAL CONVEYORS AND STOKERS

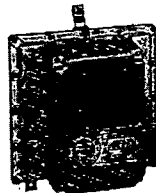


INDUCED DRAFT FANS
Used in lieu of tall chimneys; used to improve the combustion efficiency of automatic burners; used to correct inadequate draft.

Furnished in 20 models with capacities to 24,000,000 Btu boiler output. A size to match every boiler and heater in the Commercial-Industrial range.

Fan housing is mounted on a rigid structural chassis in either a clockwise or counter-clockwise rotation; with a choice of vertical, horizontal, or angular discharge.

See "Time-Saver" chart below for application data.



Draft Monitor

DRAFT MONITOR

Prevents start-up of burner unless boiler draft is proved adequate and cuts off burner whenever the draft becomes inadequate. Specify DM-3.

STEAM DRIVE

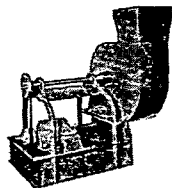
Steam-turbine Drive has built-in speed reducer to maintain the same slow speed feature as the motor-driven models. Add Suffix "S" to model number.

MECHANICAL TURNDOWN

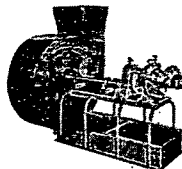
Turning handwheel varies Fan speed through an automatic pulley device while maintaining constant motor speed. Add Suffix "J" to model number.

MULTI-BLADE DAMPERS

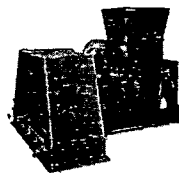
Inlet boxes with factory installed Dampers are available for use with power-operated draft regulators. Add Suffix "L" to model number.



Mechanical Turndown



Steam Drive



Multi-Blade Dampers

"Time-Saver" Chart for Induced Draft Fans

"Time-Saver" Chart for Induced Draft Fans												
DRAFT FAN Whitty Model Number	BOILER RATING			BOILER OUTPUT		FIRING DATA			FLUE GAS		FLUE SQUARE	
	SBI		ASME HP	Radi- ation Net Ft	Gross BTU 1000	Coal Hr. Lb.	Gas Hr. Ft.	Oil Hr. Gal.	CFM 600 F	SP WG In.	One In.	Two In.
	Table											
	One	Two										
8A16	215	177	30	3333	1000	100	1430	10	800	.40	10	13
8A25	286	236	38	4000	1200	120	1710	12	960	.40	11	14
9A25	358	294	45	5000	1500	150	2140	15	1200	.40	12	15
9A33	429		54	6000	1800	180	2570	18	1440	.40	13	16
10B33	500		63	7000	2100	210	3000	21	1680	.40	14	19
10B50	608		75	8333	2500	250	3570	25	2000	.40	14	19
12B50	715		90	10000	3000	300	4185	30	2400	.50	15	20
12B75	893		111	12333	3700	370	5280	37	2960	.50	16	22
14B75	1072		135	15000	4500	450	6430	45	3600	.60	18	23
14B100	1250		156	17333	5200	520	7430	52	4160	.60	19	25
16B100			174	19333	5800	580	8280	58	4440	.60	20	26
16B150	1429		210	23333	7000	700	10000	70	5600	.60	21	27
18D150	1758		228	25333	7600	760	10860	76	6080	.70	22	31
18D200	2143		276	30666	9200	920	13140	92	7360	.70	24	33
20D200	2500		318	35333	10600	1060	15140	106	8480	.80	25	34
20D300	2857		366	40666	12200	1220	17430	122	9760	.80	26	34
22D300	3214		400	45000	13500	1350	19300	135	10800	.80	30	39
22D500	3571		500	55500	16700	1670	23800	167	13300	.80	30	39
24D500			570	64000	19200	1920	26300	192	15360	.90	32	43
24D750			700	77300	23200	2320	33000	232	18560	.90	34	45

Example: Model 16B150 indicates size 16 Fan with 16 in. round inlet and 16 x 16 in. square outlet, mounted on a B size chassis and driven by a 1 1/2 hp motor. Nominal flue 21 x 21 in., or equivalent, for one Fan, or 27 x 27 in. for two Fans.

Cyclotherm Division

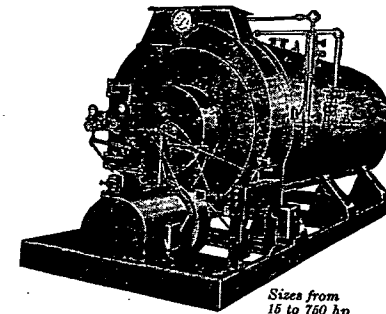
National-U. S. Radiator Corporation
Sales and Executive Offices
Oswego, New York
Factory Distributors throughout the United States

CYCLOTHERM STEAM AND HOT WATER GENERATORS

... operate on Cyclonic Combustion principle. Completely automatic with full safety controls. Oil, gas or interchangeable gas and oil firing. Only four connections required.

The Cyclonic Combustion operating principle causes the fuel to be burned while spiraling at high velocity around the inside wall of the combustion chamber, forming virtually a tube of flame. This provides uniform and highly efficient heat transfer over the entire furnace wall without hot spots. Complete utilization of heat transfer areas provides quick heat as well as greater than 80 percent efficiency with the reduced maintenance of a two-pass design.

15 to 80 hp models are equipped with "on-off" control; 100 to 750 hp models have modulated control. 80 hp units with modulating controls furnished at customers' request. Automatic combustion safeguard, low water and other safety controls are included.



Sizes from
15 to 750 hp

Pressure Range

Available in standard low pressure units or high pressures up to 200 psi. Hot water generators are also available in all sizes.

Standard Burner Arrangements

Fuel	Steam Units	Cyclotherm Model No.
Light oil, 1 to 3	C-500 through C-26000	
Heavy oil, 5, 6 and Bunker C	C-2800 through C-26000	
Gas, Mfg., mixed and natural	C-500 through C-26000	
Comb. light oil and gas	C-500 through C-26000	
Comb. heavy oil and gas	C-2800 through C-26000	

Hot Water Units

Light Oil	CW-7 through CW-70
Comb. light oil and gas	CW-7 through CW-70
Heavy oil	CW-28 through CW-70
Comb. heavy oil and gas	CW-28 through CW-70

#4 oil available on most models.

STANDARD RATINGS AND DIMENSIONS

Model No.	Steam Units			Hot Water Units	
	Max. hp Rating	Btu Output per hour	Steam (lbs) per hour	Model No.	Btu Output per hour
C-500	15	502,500	518	CW-7	670,000
C-700	18	670,000	590	CW-10	1,005,000
C-1000	30	1,005,000	1,035	CW-14	1,340,000
C-1400	40	1,340,000	1,380	CW-21	2,010,000
C-1725	50	1,675,000	1,725	CW-28	2,680,000
C-2100	60	2,010,000	2,070	CW-35	3,350,000
C-2800	80	2,680,000	2,760	CW-44	4,187,500
C-3500	100	3,350,000	3,450	CW-52	5,025,000
C-4400	125	4,187,500	4,315	CW-70	6,700,000
C-5200	150	5,025,000	5,175		
C-7000	200	6,700,000	6,900		
C-8700	250	8,375,000	8,625		
C-10500	300	10,050,000	10,350		
C-12000	350	11,725,000	12,075		
C-13800	400	13,400,000	13,800		
C-17500	500	16,750,000	17,250		
C-21000	600	21,000,000	20,700		
C-26000	750	25,125,000	25,875		