

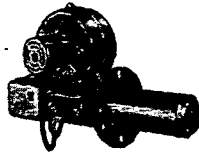


Synchronous Flame Inc.

206 N. Main Street
Walworth, Wisconsin

SYNCRO-FLAME DOMESTIC POWER GAS BURNERS

Pilotstat controlled safety pilot. Glow coil ignition, 110V-60 cycle resilient mounted motor. M-H R19G relay, solenoid gas valve. Flange or leg mounted.



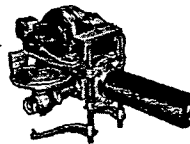
Model	Gas input M Btu/hr*	Specifications		B.H.P.	Motor
		Sq Ft of Steam Max.*	Sq Ft of Water Max.**		
SF150	75-150	440	685	1.8-3.3	1/80 hp
SF300	150-300	875	1370	3.3-6.5	1/40 hp
SF400	300-400	1150	1830	6.5-8.5	1/40 hp

* Burner set to delv. min. output at 3 in. pressure with 1,000 Btu gas
** Inputs based on minimum efficiency of 70 per cent.
All units have electric pilot ignition, Baso safety.

SYNCRO FLAME COMMERCIAL & INDUSTRIAL POWER GAS BURNERS

Deluxe model, polished aluminum housing, instantaneous spark ignition, electronic safety control (M.H. R890B) safety air switch, diaphragm gas valve, 110 V 60 cycle motor.

Model	Gas input M Btu/hour	Specifications		B.H.P.	Motor
		Sq Ft of Steam Max.*	Sq Ft of Water Max.*		
SF500E	300-500	1830	10.50	1/4 hp	1/4 hp
SF750E	500-750	2700	15.75	1/4 hp	1/4 hp
SF900E	750-900	3240	19.00	1/4 hp	1/4 hp
SF1600E	900-1600	5750	33.50	1/4 hp	1/4 hp
SF2200E	1600-2200	7910	46.00	1/4 hp	1/4 hp
SF3000E	2200-3000	10800	63.00	1/4 hp	1/4 hp

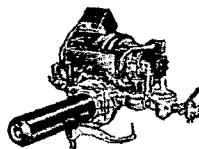


Post purge provided on SF-2200E & SF-3000E.
Adjustable diaphragm valves on SF-2200E & SF-3000E.
Two stage firing available on SF-1600E-2200E & 3000E at extra cost.

* Based on a min. combustion efficiency of 70 per cent. Proper balancing will assure greater efficiency.

SYNCRO FLAME DUAL-FUEL GAS/OIL BURNERS

For residential, commercial and industrial heating. All burners come equipped with electronic safety controls, main diaphragm gas valve, main gas line regulator, main gas cock, pilot gas cock, factory wired, tested and assembled. No room or outside thermostat or limit control included.



Model	Oil-gals per hr	Gas M Btu/Hr	Specifications		B.H.P.	Motor
			Sq Ft of Steam*	Sq Ft of water*		
SF-10E	0.75-1.75	100-240	700	1120	2.0-5.0	1/4 hp
SF-20E	1.75-2.75	240-375	1035	1750	5.0-8.0	1/4 hp
SF-30E	2.75-4.00	375-540	1240	4520	8.0-11.0	1/4 hp
SF-30EB	4.00-6.00	540-800	1870	3800	11.0-16.5	1/4 hp

* Based on min. combustion efficiency of 70 per cent.

Proper balancing will assure greater efficiency.

Flange mounts available on SF-10 through SF-30 at extra cost.

The following models are equipped with automatic timing relays to provide a purge period on start and fuel changeover.

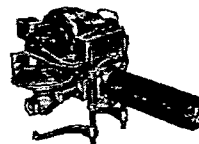
Model	Oil-gals per hr	Gas M Btu/hr	Specifications		B.H.P.	Motor
			Sq Ft of steam*	Sq Ft of water*		
SF-40E	6.0-10.0	800-1350	3938	6300	16.5-28.0	1/4 hp
SF-60E	10.0-14.0	1350-1890	5500	8800	23.0-40.0	1/4 hp
SF-80E	15.0-22.0	2100-3050	8700	13850	42.0-60.0	1/4 hp

* Based on min. combustion efficiency of 70 per cent. Proper balancing will assure greater efficiency.

Models SF-60 & SF-80 come factory equipped, at no extra cost, with two stage firing on oil. SF-80 comes equipped with adjustable diaphragm for slow start on gas.

Factory installed post purge available on models SF-40 through SF-80 at extra cost.

UL approved... approved by cities of Minneapolis, Omaha, St. Louis & the Mass. State Fire Marshal.

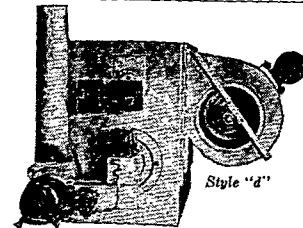


Tjernlund Manufacturing Co.

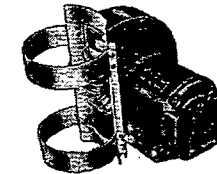
2140 Kasota Avenue • St. Paul 14, Minnesota

TJERNLUND
"Quick Heat"

Manufacturers of DOMESTIC, INDUSTRIAL, and COM-
MERCIAL WARM AIR HEATING EQUIPMENT, OIL and
GAS BURNERS, BLOWERS and DRAFT INDUCERS



BOTTOM DISCHARGE SUSPENDED
UNITS with Integral Draft Inducing
Oil Burning Units



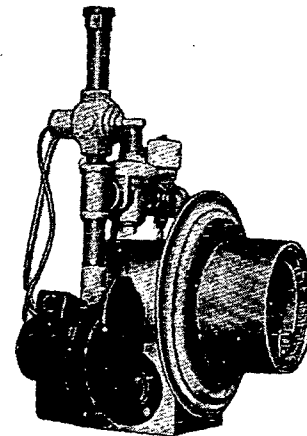
AUTO DRAFT INDUCER

- Simplified installation
 - No smoke pipe obstruction
- Can be mounted vertically or horizontally

Tjernlund 35-280 series available in styles D, H (Hiboy), A (Loboy), or suspended, E (Counter flow), B (Wall hung) or suspended, DU Duct heater

Mod.	Btu Input	Btu Output	SPECIFICATIONS	
			Cfm 1/2" SP	Hp
35	140,000	112,800	1200	1/4
50	211,000	168,800	2000	1/4
70	282,000	225,600	3000	1/2
100	423,000	338,400	4000	1
150	564,000	451,200	6000	1
200	705,000	564,000	7500	1 1/2
280	980,000	789,600	10,000	2

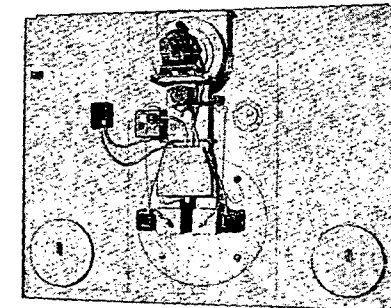
Square feet heating surface same as model number of all units. All units direct fired into heat resistant stainless steel combustion area



Jet Fire Power Gas Burner

HEAVY DUTY SERIES

- Counterflow principle heat travel
- Heat resistant stainless steel combustion area
- Blower position optional
- Integral 2 stage draft inducing oil burners



SPECIFICATIONS

Mod.	Input	Output	L	W	H	Cfm 1/2" Sp	Hp	Wheel Size
360	1,400,000	1,128,000	48	80	60	10,000	2	2-20x18
400	1,680,000	1,357,000	58	80	60	12,000	3	2-20x18
480	1,974,000	1,579,000	68	88	60	14,000	3	2-22x18
600	2,240,000	1,804,000	80	92	60	16,000	3	2-24x20
750	2,800,000	2,200,000	94	92	60	20,000	5	2-24x20
900	3,360,000	2,600,000	100	100	60	24,000	5	2-24x20

Complete catalog data furnished on request