

National Heater Company, Inc.

NATIONAL
Champion
DIRECT FIRED

2475 Doswell Avenue St. Paul 4, Minnesota

NATIONAL CHAMPION HEATERS

400,000 to 3,000,000 Btu

Direct fired for oil, gas or combination fuels

Engineered for industry—space heating, tempering make-up air and drying

Approved by American Gas Association—UL Listed

SAVE ON INSTALLATION!

- National Champion Direct Fired Heaters save you from 30 percent–70 percent over systems that require expensive ductwork, piping, condensate lines, traps and pumps.

- National Champion Direct Fired Heaters are factory flame-tested and shipped completely assembled and wired!

- National Champion Direct Fired Heaters require only sheet metal stack, fuel line and electric power!

SAVE ON MAINTENANCE!

- Simplified burner and controls, as well as readily accessible clean-out plates, make maintenance easy and economical.

- Spare parts are normally available locally.

- Licensed operators are not required.

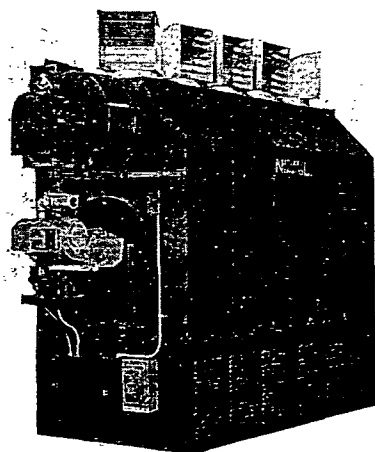
SAVE ON FUEL!

- National Champion Heaters are guaranteed at 80 percent operating efficiency with light or heavy oil, gas or combination fuels.

- National Champion Heaters burn fuel *only* when zone thermostats call for heat. Burner *shuts off* when temperature is attained.

- No fuel wasted to overcome transmission losses. No wasteful recycling to maintain steam pressure or water temperature.

Approved by American Gas Association
Underwriter's Laboratories Listed.



MODEL H Available in ceiling suspended, inverted and portable units

TESTED CONSTRUCTION—Features high chrome nickel stainless steel combustion chamber, in efficient teardrop design. Structure welded into rugged, one-piece steel unit with baked enamel exterior finish. Engineered for dependable, enduring service.

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Efficient heat exchange, high velocity discharge develop truly economical space heating

400,000 to 3,000,000 Btu

1. When heat is called for by the automatic thermostat, the induced draft blower first starts to purge the combustion chamber. Draft is established *before* burner is energized!

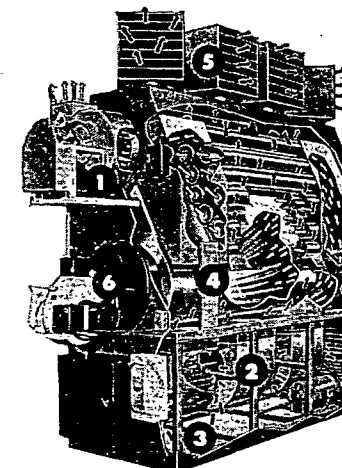
2. Main blowers start *only* after proper bonnet temperature is reached. Notice that main blowers are *separate* from induced draft blowers.

3. For most efficient re-circulation, air is drawn from floor level through louvred panels.

4. For full uniform heating and maximum heat exchange, air passes first over National's lifetime stainless steel "teardrop design" combustion chamber and then around multiple banks of economizer tubes.

5. Adjustable heads, atop the heater, discharge heated air at high velocity.

6. For maximum combustion efficiency, the separate blower integral with the burner and the separate induced draft blower are each *independently adjustable*.



Cutaway view of the National Champion Model H shows air flow intake to adjustable discharge heads.

RESULT: No "cold blasts" on start-up! Proper, uniform heating of air! High velocity discharge that keeps warmed air at working levels! Minimum floor-to-roof temperature differentials!

Underwriters Laboratories Listed
Approved by American Gas Association
WRITE FOR DESCRIPTIVE LITERATURE!

HEATER NUM- BER	BTU OUTPUT	CFM AT 1/2" SP	SQ FT HEAT- ING SURFACE	MOTOR HP 1800 RPM	EXHAUS- TER DIS- CHARGE	SUPPLY FAN RPM	PLENUM OPENING	APPROX SHIP- PING WEIGHT
TD-40			137	1	7 x 7	720	18 x 60	1550
TD-50	400,000	5,400	137	1 1/2	7 x 7	760	18 x 60	1650
TD-65	500,000	6,600	178	2	7 x 7	680	18 x 80	1750
TD-75	550,000	7,500	178	2	7 x 7	700	18 x 80	1900
TD-85	750,000	8,800	255	3	7 x 7	750	18 x 80	2400
TD-100	850,000	10,200	255	5	7 x 7	880	18 x 80	2600
TD-125	1,000,000	12,500	436	5	10 x 10	660	24 x 100	3200
TD-150	1,250,000	15,300	436	7 1/2	10 x 10	740	24 x 100	3450
TD-175	1,500,000	19,400	585	7 1/2	10 x 10	720	30 x 120	4150
TD-200	1,750,000	22,000	585	10	10 x 10	790	30 x 120	4300
TD-250	2,000,000	26,000	862	10	10 x 10	850	30 x 160	5200
TD-300	2,500,000	32,000	862	15	10 x 10	890	30 x 160	5500
TD-300	3,000,000	38,000	862	15	10 x 10			

Larger sizes available on special order.

Tested and rated in accordance with the code adopted in 1955 by ASHAE for Heavy Duty Furnaces and Direct Fired Unit Heaters.

ADDITIONAL MODELS TO 3,000,000 BTU