

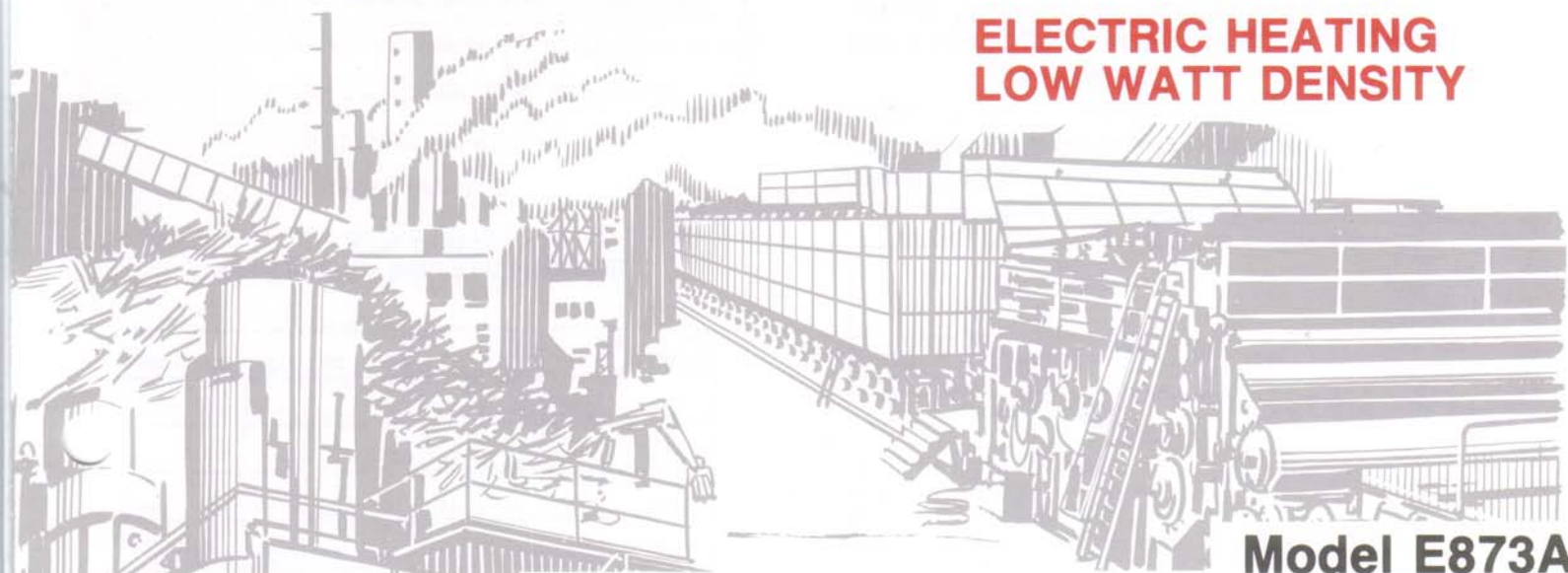
ENERVAC

CORPORATION

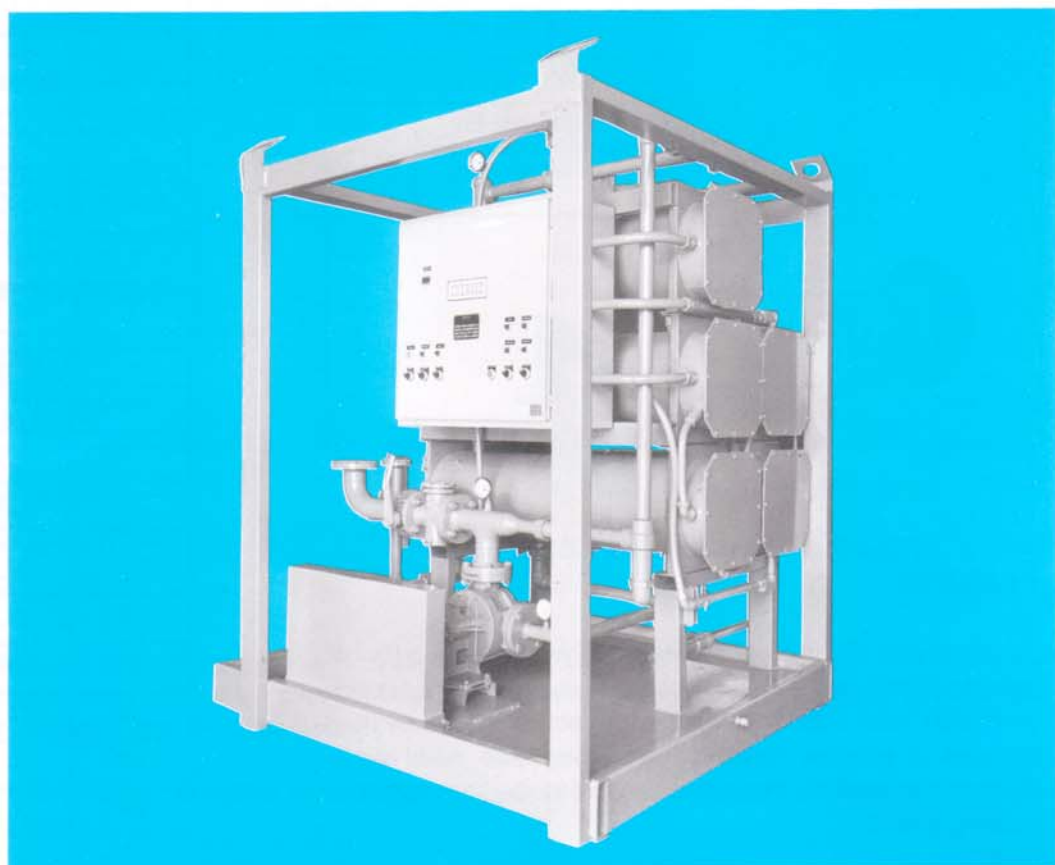
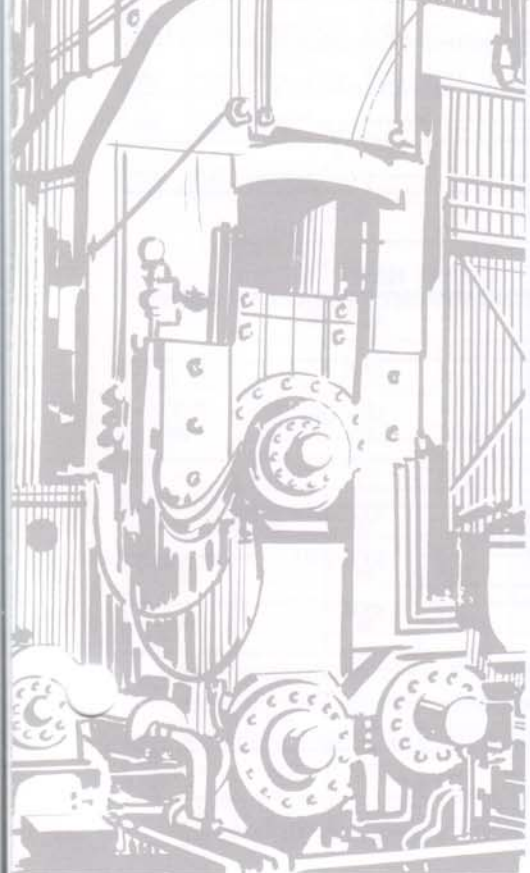
Engineers and Manufacturers of

INDUSTRIAL OIL-HEATERS

**ELECTRIC HEATING
LOW WATT DENSITY**



Model E873A



ENERVAC ELECTRIC HEATING SYSTEM FOR MINERAL OILS

Safe and Dependable

Description

The Enervac Model E873A Oil Heater System assures UNIFORM low watt density oil heating. Less than 12 watts per square inch assured.

The electric heating coils are mounted inside heating tubes. The coils heat the air in the tube which uniformly heats tube walls.

The heating coils do not come in direct contact with the oil eliminating the natural hot spots in resistance heaters and preventing any burning of oil. Isolating the heating element from the oil permits service removal without disturbing the oil process.

Each 5.5 KW heating tube is installed in a heating module with up to six tubes per modules. Modules may be grouped up to banks of eight for a maximum heat input of 264 KW.

Larger custom designed systems are available.

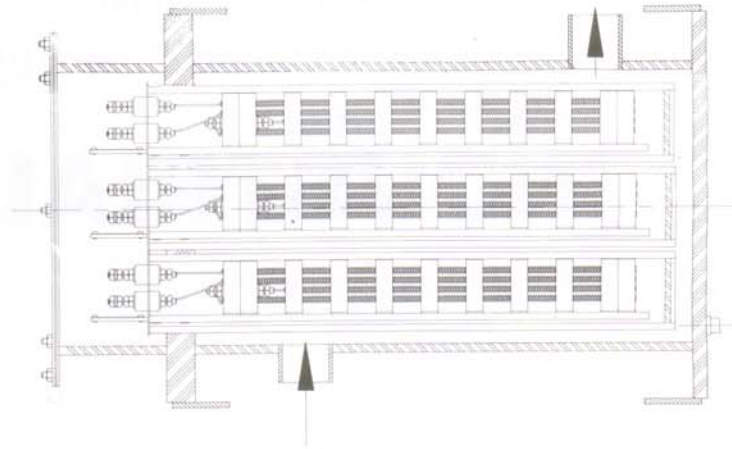
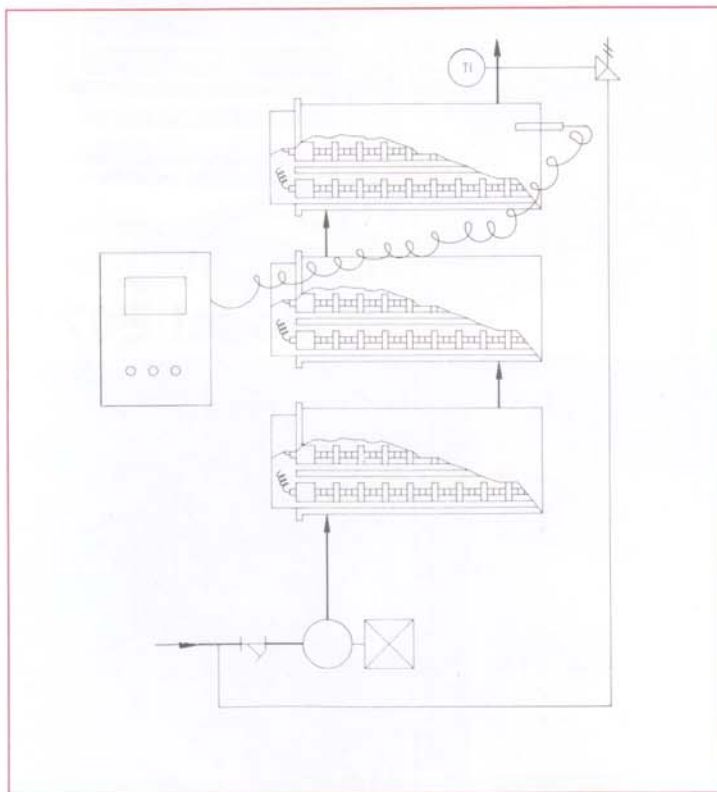


CHART No 1
TEMPERATURE RISE (SINGLE PASS)

FLOW KW	11	22	33	66	99	132	198	264
200	45°	90°	135°	—	—	—	—	—
400	23°	45°	68°	135°	—	—	—	—
600	11°	23°	45°	90°	135°	—	—	—
1200	—	11°	23°	45°	68°	90°	135°	—
1800	—	—	15°	30°	45°	68°	90°	135°
2400	—	—	11°	23°	33°	45°	68°	90°
3600	—	—	—	11°	17°	30°	45°	60°
4800	—	—	—	—	—	23°	34°	45°

CHART No 2
AMPERAGE REQUIREMENTS (HEATERS ONLY)

KW	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS
	208 3 ph	210 3 ph	380 3 ph	460 3 ph	575 3 ph
11	31	30	16	14	11
22	62	60	32	28	22
33	93	90	48	42	33
66	186	180	96	84	66
99	279	270	144	126	99
132	372	360	192	168	132
198	—	—	288	252	198
264	—	—	384	336	264



Basic Concept of the System

Features

Enervac E873A Oil Heater Systems consist of independently controlled heating modules, temperature controlled and with flow switch protection. Each system includes a positive displacement pump and relief valve by-pass return line to assure constant oil flow through the heating modules.

MODEL NOMENCLATURE CHART

Model Nomenclature Chart indicates standard and optional features available with each model. Complete flexibility is provided.

CODE	VOLTAGES
20	208 V 3ph 60 cy.
22	220 V 3ph 60 cy.
38	380 V 3ph 50 cy.
46	460 V 3ph 60 cy.
57	575 V 3ph 60 cy.

Model E873A

STANDARD FEATURES	
•	Exclusive Indirect Heating
•	Electronic Indicating, Solid State Temperature Controller
•	Insulated Modules
•	Sequenced Startup and Shutdown
•	Positive Displacement Pump
•	Relief Valve
•	100 psi working pressure
•	ASME Design
•	Flow Switch Protection
•	Temperature Gauges
•	Drain Valve
•	Indicating Lights
•	Nema 12 Control Cabinet

CODE	OPTIONAL EQUIPMENT
F	Discharge Filter
T	High Temperature Protection
V	Inlet and Outlet Valves
Z	Viton Gaskets
C	Casters for Mobility

CODE	FLOW RATES
200	gal per hour
400	gal per hour
600	gal per hour
1200	gal per hour
1800	gal per hour
2400	gal per hour
3600	gal per hour
4800	gal per hour

NOTE

1. Check chart No. #1 for Heat Rise.
2. Check chart No. #2 for Power Requirements

CODE	CONNECTIONS
11 KW	1 1/2" N.P.T.
22 KW	1 1/2" N.P.T.
33 KW	1 1/2" N.P.T.
66 KW	1 1/2" N.P.T.
99 KW	2" N.P.T.
132 KW	2" N.P.T.
198 KW	2" N.P.T.
264 KW	3" N.P.T.



Exclusive Enervac Design

Enervac specializes in the design and manufacture of low watt density electric heating for industrial oils. We manufacture our own ASME coded exchangers as well as our own CSA approved heating elements only the finest of materials are used assuring reliable performance and life expectancy.

Present us with your oil heating problems, no matter how unique, and our staff of experienced professionals will be pleased to make recommendations.



ENERVAC

produces a wide range of specialty products and systems, most of which are based on a high order of technology.

Solving Tomorrow's Problems TODAY

HIGH VACUUM DEGASIFICATION

For upgrading of new and used electrical insulating liquids, transformer oil, polybutenes and silicones - the removal of free and soluble water, free and dissolved air and gases and particulate matter. Mobile and stationary units in sizes to fit every need.

SF₆ GAS SERVICE CART

SF₆ Gas Service Carts are designed to meet today's requirements for efficient SF₆ gas Reclaiming and Handling with no or minimal loss of gas to atmosphere. The Cart performs all the necessary functions to service a breaker. Purification, drying and filtration of the gas is performed during removal and charging operation.

LUBE SYSTEMS

Oil circulating lubrication systems including pumps, tanks, filters, coolers, indicators and other accessory equipment in either packaged or component systems are available.

AIR AND GAS DRYERS AND FILTERS

Enervac dryers and filters are designed for removal of moisture from process air and gases, eliminating condensation and freezeup, moisture corrosion, protecting pneumatic instruments and extending the life of pneumatic tools.

VACUUM DEHYDRATORS

Low vacuum units are available from Enervac Corporation for the continuous maintenance of the original chemical and physical qualities of lubricating, insulating, cooling, hydraulic and synthetic oils.

INDUSTRIAL FILTERS

Industrial filtration equipment utilizing pleated paper, and other media to provide the exact degree of filtration and flow rate for virtually any application.



Representative

ENERVAC

CORPORATION

700 FRANKLIN BLVD., CAMBRIDGE
ONTARIO, CANADA N1R 5S9
TEL. (519) 623-9890
FAX (519) 623-8250 / (519) 623-4394