GAUMER PROCESS
HEATERS
SYSTEMS
CONTROLS

Hot Oil Systems - GHOS 650 Series

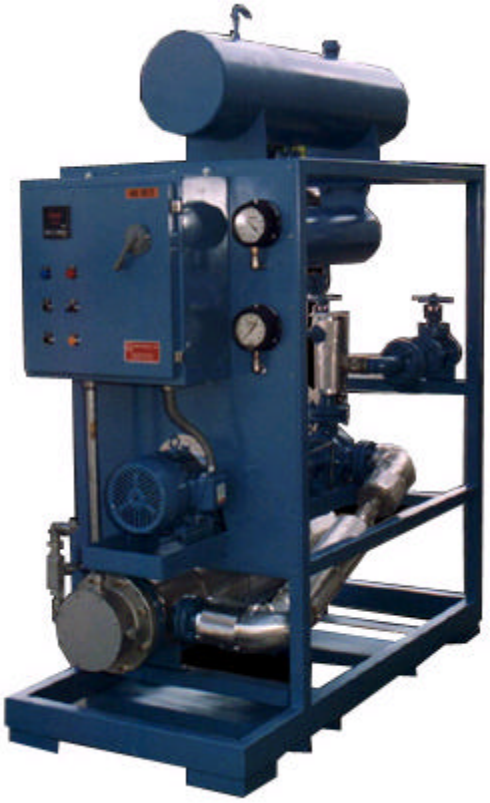
Recirculating Temperatures to 650°F.
Positive Displacement Pump

APPLICATIONS

For heating revolving rolls, platens, molds, dies, jacketed tanks, autoclaves, where close even temperatures are required. Many types of Heat Transfer Fluids are available and most are compatible with this system.

STANDARD FEATURES

- Pre-engineered and proven design package that has been field tested under rugged conditions at temperatures to 650°F.
- Low Watt-density Incoloy 800 sheath heating elements arranged to provide "Even Heat" inside tube bundle.
- Unique "Buffer Tank" factory installed solves oil degradation problems associated with hot oil (over 500°F.) reaching expansion tank.
- Self-venting horizontal design of the heating chamber eliminates both air contamination and the need to manually vent heater chambers.
- Pump may be isolated or removed without draining heating chamber.
- Mechanical seal (standard feature) eliminates constant dripping of conventional "wet seals".
- Positive displacement type pump with bypass designed for heat transfer fluids operating over a wide temperature range.
- Flexible pipe at pump connections absorbs vibration.
- Fully enclosed pump speed-reducer to extend life of pump and improve reliability.
- Industrial quality pressure and suction gauges.
- Expansion tank with rugged inspection ports either mounted on unit or shipped separate for field mounting above process.



- Enclosed with 16 gauge steel panels on three sides, fourth side has piping access.
- Gate valves (inlet and outlet) provide system isolation from process when required.
- Flanged inlet, outlet, and fill connection.
- All welded construction including all piping connections as well as tube bundle assembly.
- Piping insulated with calcium silicate and covered with metal jacket.

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MORE STANDARD FEATURES

- Fully gasketed electrical control enclosure with door mounted disconnect handle, temperature indicator, pilot lights, and switches.
- Heating element sheath sensing thermocouple for quickest response to overheat conditions.
- SCR Thyristor Power Control - assures more accurate temperature control than conventional systems and effectively reduces watt-density during normal operations.
- Electronic over-temperature control with separate safety contactor and illuminated reset button.
- Electronic PID Type indicating temperature control.
- Pump motor circuit, separately fused, with overload protection and interlocks.
- Installation, Operation, Parts List Manuals.

CONSTRUCTION OPTIONS

- Weatherproof Construction (NEMA IV)
- Explosion Resistant Construction (NEMA VII)
- Separate control package for remote mounting.
- Multiple systems on one skid.
- Back-up pump piped and wired into system with either manual or automatic change-over

COOLING OPTIONS

- Water cooling packages with manual, semi-automatic, or fully automatic operation change over from heating to cooling.
- Air cooling packages with fully modulated temperature control - provides somewhat slower cooling rate than water but can be accurately controlled and is virtually maintenance free.

CONTROL OPTIONS

- Chart recorder or data logger.
- Clock timer - 7 day with skip-a-day feature.
- Differential type pressure switch.
- Expansion tank level switch.

Type: GHOS

Gaumer Model Number	KW Output	BTU/HR Output	Watt Density	Pump GPM	Pump HP	Piping Conn.	System Volume	Length (inches)	Width (inches)	Height (inches)	Net Weight
GHOS-10	10	34120	15	20	2	1-1/2	7	72	36	72	1200
GHOS-15	15	51180	15	20	2	1-1/2	8	84	36	72	1300
GHOS-20	20	68240	15	20	2	1-1/2	13	72	36	72	1300
GHOS-30	30	102360	15	20	2	1-1/2	16	84	36	72	1400
GHOS-40	40	136480	15	50	5	2	23	76	36	80	1400
GHOS-50	50	170600	15	50	5	2	25	84	36	80	1450
GHOS-60	60	204720	15	50	5	2	27	90	36	80	1500
GHOS-80	80	272690	15	90	7-1/2	2	46	90	48	84	1800
GHOS-100	100	341200	15	90	7-1/2	2	48	96	48	84	1900
GHOS-120	120	409440	15	90	7-1/2	2	50	96	48	84	2000
GHOS-150	150	511800	15	150	10	3	80	102	52	90	2200
GHOS-180	180	614160	15	150	10	3	83	102	52	90	2300
GHOS-200	200	682400	15	150	10	3	84	102	52	90	2400
GHOS-225	225	767700	12	150	10	3	125	132	52	90	2700
GHOS-250	250	853000	12	250	15	4	144	150	52	90	3000
GHOS-300	300	1023600	12	250	15	4	157	102	60	90	3300
GHOS-360	360	1228320	12	250	15	4	160	102	60	90	3500
GHOS-400	400	1364800	12	350	20	4	198	120	60	90	3700
GHOS-450	450	1535400	12	350	20	4	243	132	60	90	3900
GHOS-500	500	1706000	12	350	20	4	282	150	60	90	4200
GHOS-600	600	2047200	12	500	30	6	310	108	72	96	4600

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GHOS-670	670	2286040	12	500	30	6	341	128	72	96	5000
GHOS-720	720	2456640	12	500	30	6	375	140	72	96	5400
GHOS-840	840	2866080	12	500	30	6	413	158	72	96	5800
GHOS-900	900	3070800	12	600	40	6	454	164	84	102	6300
GHOS-1050	1050	3582600	12	600	40	6	500	184	84	102	6800
GHOS-1200	1200	4094400	12	600	40	6	550	204	84	102	7400

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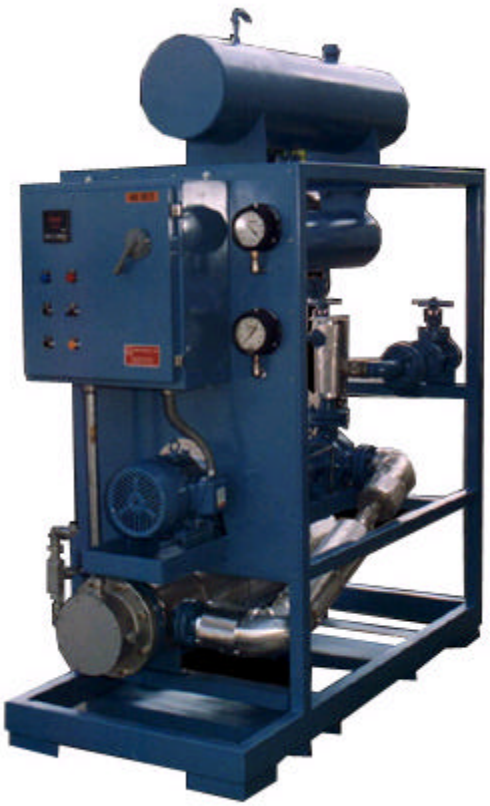

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- Self-venting horizontal design of the heating chamber eliminates both air contamination and the need to manually vent heater chambers.
- Flanged isolation valve makes it possible to service pump without draining system.
- Mechanical seal (standard feature) eliminates constant dripping of conventional "wet seals".
- Centrifugal pump designed for heat transfer fluids operating over a wide temperature range.
- Flexible pipe at pump connections absorbs vibration.
- Industrial quality pressure and suction gauges.
- Expansion tank with rugged inspection ports either mounted on unit or shipped separate for field mounting abrove process.
- Enclosed with 16 gauge steel panels on three sides, fourth side has piping access.
- Gate valves (inlet and outlet) provide system isolation from process when required.
- Flanged inlet, outlet, and fill connection.
- All welded construction including all piping connections as well as tube bundle assembly.
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For more information or to place an order call the Shuhart Company • 1-880-349-9898

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