

# 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 150°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, semiautomatic, 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

Model	kW	Watt Density W/Sq. In.	Pump GPM	Pump Type	Pump HP	Connection Size Inch (300#)	System Volume Gallons	Length Inches	Width Inches	Height Inches	Weight Lbs.
GHOS-10	10	15	20	Positive Displacement	2	1.5	7	72	36	72	1200
GHOS-15	15	15	20	Positive Displacement	2	1.5	8	84	36	72	1300
GHOS-20	20	15	20	Positive Displacement	2	1.5	13	72	36	72	1300
GHOS-30	30	15	20	Positive Displacement	2	1.5	16	84	36	72	1400
GHOS-40	40	15	50	Positive Displacement	5	2	23	76	36	80	1400
GHOS-50	50	15	50	Positive Displacement	5	2	25	84	36	80	1450
GHOS-60	60	15	50	Positive Displacement	5	2	27	90	36	80	1500
GLOS-80	80	15	90	Centrifugal	7.5	2	46	90	48	84	1800
GLOS-100	100	15	90	Centrifugal	7.5	2	48	96	48	84	1900
GLOS-120	120	15	90	Centrifugal	7.5	2	50	96	48	84	2000
GLOS-150	150	15	150	Centrifugal	10	3	80	102	52	90	2200
GLOS-180	180	15	150	Centrifugal	10	3	83	102	52	90	2300
GLOS-200	200	15	150	Centrifugal	10	3	84	102	52	90	2400
GLOS-225	225	12	150	Centrifugal	10	3	125	132	52	90	2700
GLOS-250	250	12	250	Centrifugal	15	4	144	150	52	90	3000
GLOS-300	300	12	250	Centrifugal	15	4	157	133	77	126	3300

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GLOS-360	360	12	250	Centrifugal	15	4	160	133	77	126	3500
GLOS-400	400	12	350	Centrifugal	20	4	198	120	77	126	3700
GLOS-450	450	12	350	Centrifugal	20	4	243	132	77	126	3900
GLOS-500	500	12	350	Centrifugal	20	4	282	150	77	126	4200
GLOS-600	600	12	500	Centrifugal	30	6	310	108	77	126	4600
GLOS-670	670	12	500	Centrifugal	30	6	341	128	77	126	5000
GLOS-720	720	12	500	Centrifugal	30	6	375	140	77	126	5400
GLOS-840	840	12	500	Centrifugal	30	6	413	158	77	126	5800
GLOS-900	900	12	600	Centrifugal	40	6	454	164	84	126	6300
GLOS-1050	1050	12	600	Centrifugal	40	6	500	184	84	126	6800
GLOS-1200	1200	12	600	Centrifugal	40	6	550	204	84	126	7400



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