

Compact Hot Oil Systems - 2GHOCS Series

Recirculating Temperatures to 600°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
- 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.
- Positive displacement type pump with bypass designed for heat transfer fluids operating over a wide temperature range.
- Flexible pipe at pump connections absorbs vibration.
- Industrial quality pressure gauge.
- Expansion tank with rugged inspection ports mounted on unit or can be field mounted remote from system.
- Heating element sheath sensing thermocouple for quickest response to overheat conditions.
- Installation, Operation, Parts List Manuals.
- Complete Set of Rugged Castors
- Enclosed with 16 gauge steel panels.
- 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.
- 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.

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.
- Back-up pump piped and wired into system with either manual or automatic change-over operation.

Type: 2GHOCS

| Gaumer Model Number | Volts 3Phase | KW Output | BTU/HR Output | Watt Density | Pump GPM | Pump HP | Piping Conn. | System Volume | Length (inches) | Width (inches) | Height (inches) | Net Weight |
|---------------------|--------------|-----------|---------------|--------------|----------|---------|--------------|---------------|-----------------|----------------|-----------------|------------|
| 2GHOCS-2-500-20 | 240 | 20 | 68240 | 15 | 20 | 1-1/2 | 1-1/2 | 10 | 60 | 30 | 72 | 525 |
| 2GHOCS-2-600-20 | 240 | 20 | 68240 | 15 | 20 | 1-1/2 | 1-1/2 | 10 | 60 | 30 | 72 | 600 |
| 2GHOCS-2-400-20 | 240 | 20 | 68240 | 15 | 20 | 1-1/2 | 1-1/2 | 10 | 60 | 30 | 72 | 500 |
| 2GHOCS-4-400-20 | 480 | 20 | 68240 | 15 | 20 | 1-1/2 | 1-1/2 | 10 | 60 | 30 | 72 | 500 |
| 2GHOCS-4-500-20 | 480 | 20 | 68240 | 15 | 20 | 1-1/2 | 1-1/2 | 10 | 60 | 30 | 72 | 525 |
| 2GHOCS-4-600-20 | 480 | 20 | 68240 | 15 | 20 | 1-1/2 | 1-1/2 | 10 | 60 | 30 | 72 | 600 |
| 2GHOCS-2-500-30 | 240 | 30 | 102360 | 15 | 20 | 1-1/2 | 1-1/2 | 12 | 60 | 30 | 72 | 550 |
| 2GHOCS-2-400-30 | 240 | 30 | 102360 | 15 | 20 | 1-1/2 | 1-1/2 | 12 | 60 | 30 | 72 | 525 |
| 2GHOCS-2-600-30 | 240 | 30 | 102360 | 15 | 20 | 1-1/2 | 1-1/2 | 12 | 60 | 30 | 72 | 625 |
| 2GHOCS-4-500-30 | 480 | 30 | 102360 | 15 | 20 | 1-1/2 | 1-1/2 | 12 | 60 | 30 | 72 | 550 |
| 2GHOCS-4-600-30 | 480 | 30 | 102360 | 15 | 20 | 1-1/2 | 1-1/2 | 12 | 60 | 30 | 72 | 625 |
| 2GHOCS-4-400-30 | 480 | 30 | 102360 | 15 | 20 | 1-1/2 | 1-1/2 | 12 | 60 | 30 | 72 | 525 |
| 2GHOCS-2-400-40 | 240 | 40 | 136480 | 15 | 20 | 1-1/2 | 1-1/2 | 14 | 60 | 30 | 72 | 550 |
| 2GHOCS-2-500-40 | 240 | 40 | 136480 | 15 | 20 | 1-1/2 | 1-1/2 | 14 | 60 | 30 | 72 | 575 |
| 2GHOCS-2-600-40 | 240 | 40 | 136480 | 15 | 20 | 1-1/2 | 1-1/2 | 14 | 60 | 30 | 72 | 650 |
| 2GHOCS-4-600-40 | 480 | 40 | 136480 | 15 | 20 | 1-1/2 | 1-1/2 | 14 | 60 | 30 | 72 | 650 |
| 2GHOCS-4-400-40 | 480 | 40 | 136480 | 15 | 20 | 1-1/2 | 1-1/2 | 14 | 60 | 30 | 72 | 550 |
| 2GHOCS-4-500-40 | 480 | 40 | 136480 | 15 | 20 | 1-1/2 | 1-1/2 | 14 | 60 | 30 | 72 | 575 |