

GMS 

Thermal Products Ltd

www.gmsthermal.co.uk



**PEAKLINE 'C' TWIN PUMP
PRESSURISATION UNITS**

GMS PRESSURISATION UNITS

Duplex pump pressurisation units for pressurising chilled & heating water circuits

The "Peakline C" is a high specification duplex pump pressurisation unit is ideal for controlling and maintaining pressure in sealed heating and chilled water systems. "Sealed" systems steadily lose small amounts of water via leaks, maintenance operations, vapour from glands etc. The Peakline C continuously and automatically monitors system pressure and tops it up as required. The unit provides low and high pressure volt free switching for boiler or chiller safeguarding. It should be installed in conjunction with an **expansion vessel** (see separate leaflet) to accommodate system water thermal expansion. Our sales office will be pleased to help with selection of an expansion vessel.

Standard Specification

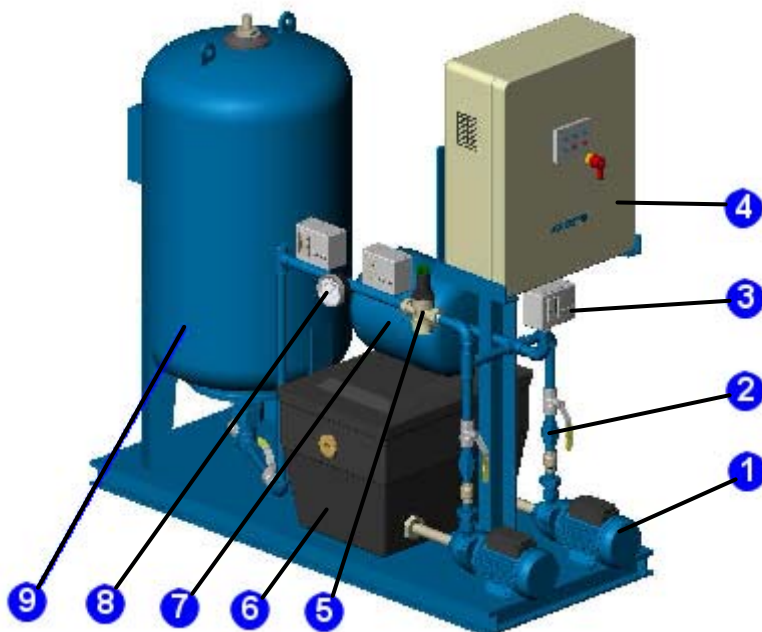
- √ Plastic feed tank with lid, overflow and BS 6281 "A-type" air gap
- √ Ball float valve and mains water connection
- √ Brass/stainless steel tank connections (to pumps)
- √ Peripheral turbine pumps with cast iron bodies, continuously rated motors, built-in thermal cut-outs
- √ Non-return valves
- √ Pressure switches for pump control (factory preset)
- √ High & Low Pressure switches for external boiler cut-outs.
- √ Accumulator vessel
- √ System pressure regulating valve
- √ System pressure gauge
- √ System isolation ball valve
- √ IP 55 Control panel enclosure (see panel specification)
- √ Wiring between pumps, pressure switches and control panel
- √ Carbon steel pipework
- √ Mild steel base
- √ All steel parts finished in blue gloss paint
- √ Pre-delivery testing of all units for soundness, function (on cold water) and electrical safety

Standard Performance Data

- | | |
|---|--|
| √ Power supply | 230V / 1 phase / 50 Hz or 415V / 3 phase / 50 Hz |
| √ Full load current | Dependant on unit selection |
| √ Pump output pressure (max) | 3.0 BarG |
| √ System pressure control range | 0.8 to 2.8 BarG |
| √ Permissible system temperatures | 0 to 99 °C |
| √ Max system working pressure (after thermal expansion) | 8.0 BarG |

Main Peakline 'C' Features

- 1 Twin Peripheral Turbine Pumps
- 2 Package Pipework & Bronze Valving
- 3 System Pressure Switches
- 4 Electrical Control Panel
- 5 Pressure Regulating Valve
- 6 Cold Water Break Tank
- 7 Pump Accumulator
- 8 Outlet Pressure Gauge
- 9 System Expansion Vessel



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Standard Control Panel Specification

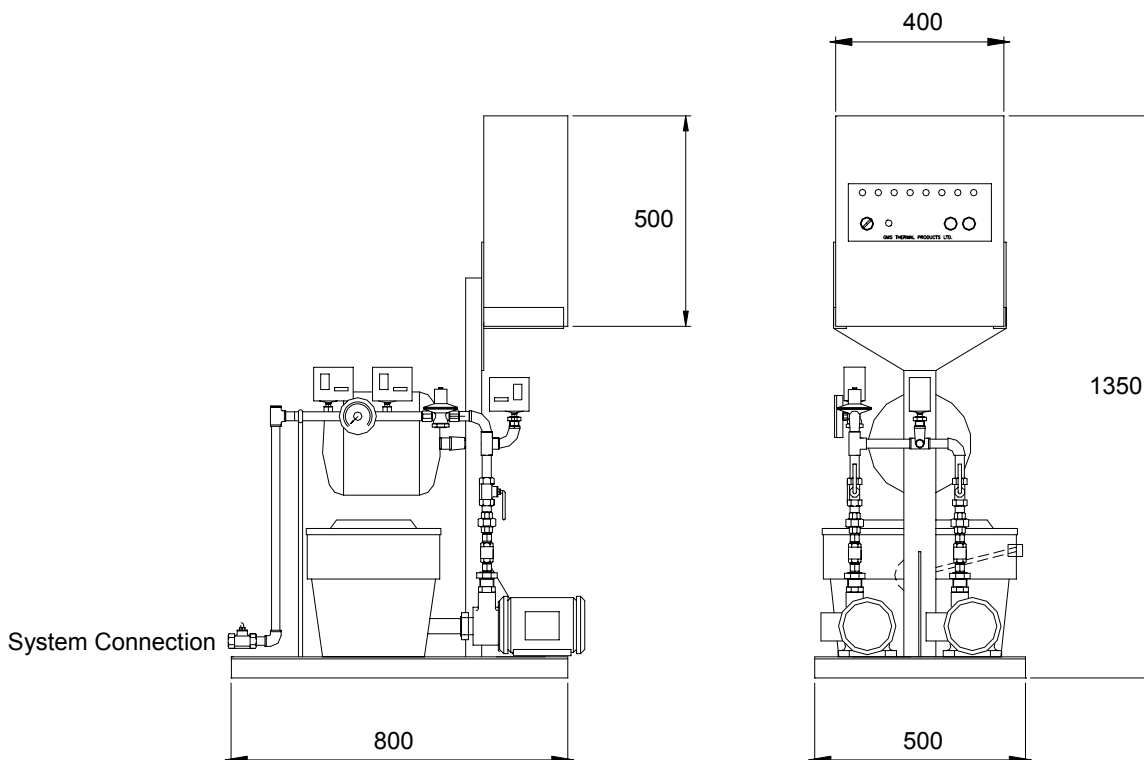
- √ IP 55 enclosure with lockable, hinged door
- √ Control circuit fuse for each pump 2 amp
- √ Door interlocked isolator
- √ DOL contactor complete with thermal overload protection
- √ Auto / Hand / Off pump control switch
- √ System reset button
- √ Fascia mounted indicating lights for :- power on, high and low system pressure, pump run and trip
- √ Alarm circuit mute button (alarm extra)
- √ Volt free contacts for high and low system pressure
- √ Volt free contact for pump trip
- √ Pump Auto-change-over with each pump start or pump trip
- √ Connections and control circuitry for low water pump cut-out switch (self-resetting) (switch extra)

Model shown is a standard Peakline unit. The system expansion vessel is supplied loose for site installation.

Colour of pipework and skid base optional. Please specify when enquiring or ordering.

Options:

- √ Expansion vessel. Accommodates system water thermal expansion
- √ Fitting expansion vessel to unit (includes extended base and pipework)
- √ Twin outlets. Extra pressure regulator and gauge e.g. to pressurise chilled and heating systems with one unit
- √ Single Pump Unit
- √ Low level switch in feed tank
- √ Higher pressure pump
- √ Audible alarm (common for all fault conditions)
- √ M & E 3 specification
- √ Extra volt free contacts for pump run/tripped and low water level in feed tank
- √ Pre-piping of expansion vessel to unit on extended base frame



GMS PRESSURISATION UNITS

Also Available, a simple, low cost alternative version to the Peakline 'C'

Single pump pressurisation units for pressurising chilled & heating water circuits

The "Peakline N" low cost single pump pressurisation unit is ideal for controlling and maintaining pressure in sealed heating and chilled water systems. "Sealed" systems steadily lose small amounts of water via leaks, maintenance operations, vapour from glands etc. The Peakline N continuously and automatically monitors system pressure and tops it up as required. It should be installed in conjunction with an **expansion vessel** (see separate leaflet) to accommodate system water thermal expansion. Our sales office will be pleased to help with selection of an expansion vessel.

Standard Specification

- ✓ Plastic feed tank with lid, overflow and BS 6281 "A-type" air gap
- ✓ Ball float valve and mains water connection
- ✓ Brass/stainless steel tank connection (to pump)
- ✓ Peripheral turbine pump with cast iron body, continuously rated motor, built-in thermal cut-out
- ✓ Non-return valve
- ✓ Pressure switch for pump control
- ✓ Accumulator vessel
- ✓ System pressure regulating valve
- ✓ System pressure gauge
- ✓ System isolation ball valve
- ✓ Fused, switched terminal box
- ✓ Wiring between pump, pressure switch and terminal box
- ✓ Carbon steel pipework
- ✓ Mild steel base
- ✓ All steel parts finished in blue gloss paint
- ✓ Pre-delivery testing of all units for soundness, function (on cold water) and electrical safety

Standard Performance Data

- | | |
|---|------------------------|
| ✓ Power supply | 230V / 1 phase / 50 Hz |
| ✓ Full load current | 2.3 A |
| ✓ Pump output pressure (max) | 3 BarG |
| ✓ System pressure control range | 0.8 to 2.8 BarG |
| ✓ Permissible system temperatures | 0 to 99 °C |
| ✓ Max system working pressure (after thermal expansion) | 8 BarG |

Options:

- ✓ High and low pressure switches (volt-free) wired to terminal box. Connect to boiler cut-out to meet PM5 standard
- ✓ Expansion vessel. Accommodates system water thermal expansion
- ✓ Fitting expansion vessel to unit (includes extended base and pipework)
- ✓ Twin outlets. Extra pressure regulator and gauge e.g. to pressurise chilled and heating systems with one unit
- ✓ Low level switch in feed tank
- ✓ Higher pressure pump

