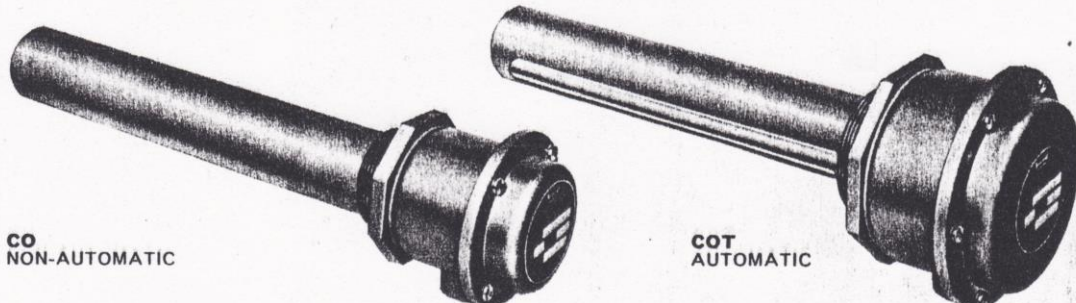




'CO' and 'COT' SERIES

NON-AUTOMATIC AND AUTOMATIC REMOVABLE CORE TYPE IMMERSION HEATERS FOR OIL APPLICATION



CO
NON-AUTOMATIC

COT
AUTOMATIC

APPLICATIONS

'CO' and 'COT' series heaters have been designed for use in oil storage tanks and circulation systems. However, their use can be extended to other liquid heating applications not corrosive to mild steel. Core type immersion heaters are particularly recommended for use in equipment which cannot easily be drained. A very wide range of surface loadings (watts/sq. in.), voltages (single phase and three phase), and inactive heating lengths can be accommodated. 'CO' and 'COT' heaters are available in a standard range of surface loadings to suit the requirements of B.S.799 (oil burning equipment) and in addition a range loaded at 20 watts/sq.in. is included for other non corrosive applications.

Where high loadings are required in a restricted space, Flat Blade type immersion heaters should be considered, see catalogue section O.43-1.

DESIGN FEATURES

- Mild steel sheathed.
- Removable heating core for easy maintenance.
- Weathertight terminal box.
- Easy accessible wiring connections. System wiring instructions printed on heater.
- Adaptable for special heating applications.
- Screwed non-ferrous gland.

INSTALLATION

'CO' series heaters are supplied with 2 in. B.S.P. fixing glands, and 'COT' series heaters with 2½ in. B.S.P. fixing glands. Standard heaters are for horizontal mounting but special heaters for vertical fixing (upwards or downwards) can be readily supplied, see note overleaf. In order to achieve accurate temperature control with 'COT' heaters fitted horizontally, it is important to adjust the final position of the heater so that the thermostat lies on the horizontal axis. To assist this adjustment, two flats on the octagonal head are marked 'TOP' and either one or the other mark must be in this position.

It is important to ensure that adequate space is provided to withdraw the heating element. Withdrawal lengths are given on the List Table.

A 1in. B.S. conduit connection gland is provided on the terminal box and internal connections can very easily be made. Standard wiring arrangements are printed on the inside surface of the terminal box lid.

Heaters exceeding 48 ins. immersed length require supporting inside the tank.

Where immersion heaters are used in conjunction with a thermostat, a suitable contactor is required for all D.C. and all three-phase A.C. supplies, and single-phase A.C. supplies where the current exceeds 15 amps.

IMMERSION HEATERS MUST NOT BE RUN DRY.

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