

POLARIS ELECTRIC IMMERSION HEATER – FIRE RESISTANCE

FLAMMABILITY OF MATERIALS

The materials used in construction of the POLARIS are classified as follows:

TEFLON FEP/PFA – These materials are to all intents and purposes non flammable and will only burn in a pure oxygen atmosphere.

PVDF is classified by UL Laboratories as VO self extinguishing.

ABNORMAL OPERATIONS TEST AND HAZARD PROTECTION

Compliance with the Principal objectives of safety has been assured by compliance with the following European and British standard:~

EN60519-1:2003, EN60519-2:2006, EN60335-1:2002/A2:2006 and EN60335-2-73:2003/A1:2006

The heater tested was subjected to an abnormal operation test as required by the standard, which states: ~

“Appliances shall be constructed so that as a result of abnormal or careless operation, the risk of fire, mechanical damage impairing safety or protection against electric shock is obviated as far as is practicable.

During the tests the appliance shall not emit flames, molten metal or poisonous or ignitable gas in hazardous amounts.”

Braude have also carried out their own series of tests to destruction on heaters suspended in air and are satisfied that no risk exists.

INSTALLATION

Please note that BRAUDE installation instructions require all electric heaters to be properly installed with earth leakage circuit breakers (RCDs), which should be checked regularly for correct operation. Braude also recommend that all tanks should be fitted with level control to switch heaters off in the event of low liquid level and that proper maintenance and checking of these systems is carried out on a regular basis.

Proper installation according to the instructions will allow the heaters to be shut down rapidly in the event of adverse operating conditions, maintaining the safety of the installation.

POLARIS HEATERS ARE INTRINSICALLY SAFE

Braude do not accept liability for consequential damages that may arise as a result of use of this equipment.



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