

Hot Air Generator

CAPABILITY SHEET · AIR PROVED FIRST · ELEMENTS GUARDED · BLOWER OUTLASTS THE HEAT · ENGINEERED

THE ONE IDEA

PRINCIPLE	Never let the heater outrun the air.
WHY IT MATTERS	An electric element makes heat whatever the air does, so heat is allowed only while the flow is proved, and the elements are watched apart from the stream.

THE GENERATOR

AIR	A blower on a guarded drive, or a compressed air line with a regulator, a filter and a dryer, with a flow sensor or a switch that proves the air.
HEATER	Finned tubular elements in an insulated vessel, grouped so that the power can be stepped or modulated by thyristor power controllers.
GUARD	A thermocouple on an element and a separate high-limit cut-out, reset by hand, guard the elements even if the controller fails.
CONTROL	A controller holds the outlet temperature on a probe in the stream, lets heat on only with proved air, runs the blower on after the heat and logs every run.

THE METHOD

ORDER	Specify, size, tie, run, map and prove. Tying the heat to the air, and mapping the stream across the whole flow range, are what a quick order skips.
LIMITS	Flows, temperatures and limits come from the standard the customer names and from the article, and are not printed here.

CONFIGURATIONS

BLOWER-FED GENERATOR	Ambient air pushed through the elements by a blower, for large flows at low pressure.
COMPRESSED-AIR HEATER	Filtered, dried air from a compressed air line heated in a pressure vessel, for clean air at pressure and smaller flows.
WITH TEST SECTION	A generator with a duct for the article, probes at its entry and exit and an exhaust, so that the part is heated and measured in one rig.

STANDARDS & SCOPE

STANDARDS	Public reference: IEC 60519-1 for the general safety of industrial electroheating installations, resistance heating included.
SCOPE BOUNDARY	It is the hot air generator: not a valve test rig, not a turbocharger stand, not a thermal shock chamber, and not a fuel-fired heater or an oven.
STATUS	Neometrix has quoted against successive hot air generator and air heater requirements, and no delivered hot air generator is claimed.

DEFENCE PROGRAMMES DESK

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