Small-Type Box Furnace KBF828N1

Recently, safety and energy saving have been required for even R&D equipment. This newly developed furnace has been improved in its performance and safety compared with conventional ones. While it incorporates an overheat-protection function with a temperature-programmer as standards, its maximum operating temperature has been increased up to 1 150℃. In addition, introduction of heat treatment atmosphere gas into heating chamber is made available as on optional.

Features

1) Incorporation of an energy-saving heater has reduced power consumption to 80% of a conventional furnace.
2) A fail-safe function is added by means of shutdown of heater power through a detection switch for the case of door opening during high temperature operation.
3) Excellent temperature uniformity by new type heater
4) Superior cost performance

Specifications

Table 1 Comparison of specifications

	Conventional model KBF828N	Developed model KBF828N1
Max. operating temperature	1 100℃	1 150℃
Temperature distribution performance	±4℃ (at 1 100℃)	±3.5℃ (at 1 100℃)
Temperature rising rate	60 min (R.T.→1 100℃)	60 min (R.T.→1 150℃)
Boundary dimensions	610 W×755 D×730 H	550 W×755 D×730 H
Power consumption at steady-state temperature	2.5 kWh (at 1 100℃)	2.0 kWh (at 1 100℃)

Structure

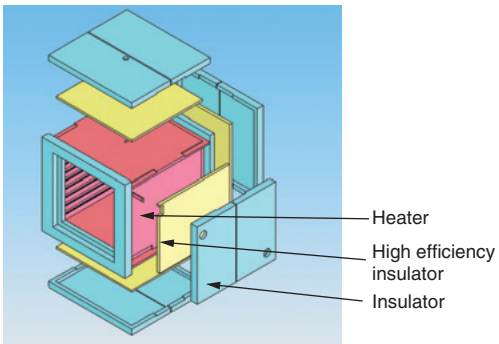

Fig. 1 Structure of heater

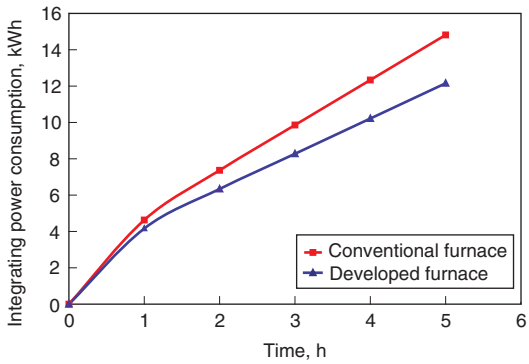

Fig. 2 Comparison of integrating power consumption

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