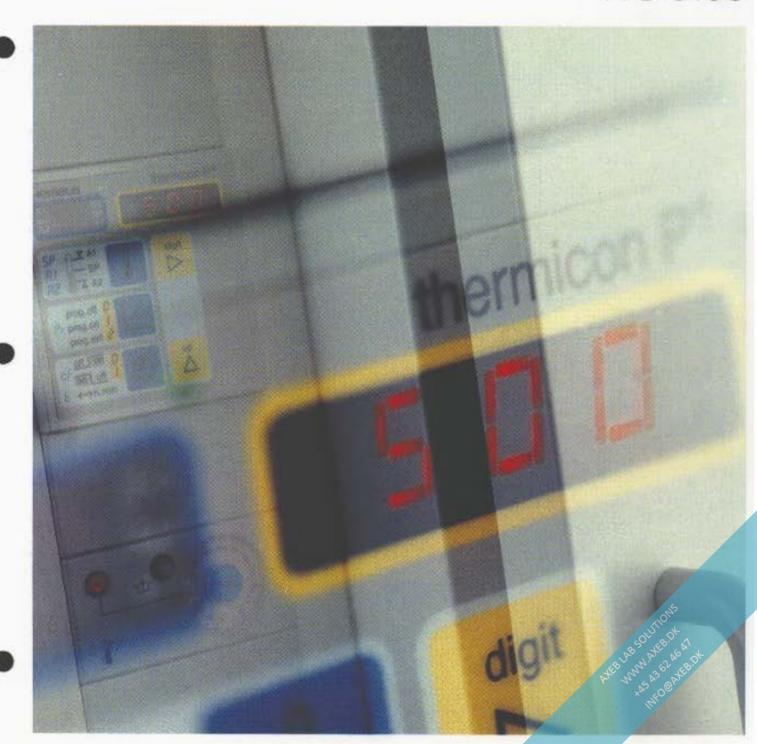
Heraeus

Air Circulation Heating Oven 500°C WU 6100



Precise and Economical

Air Circulation Heating Oven WU 6100

Temperature stability and stress tolerance of high-grade materials take on increasing relevance. Closely associated with these concerns is the steadily growing need for technically perfect heating and testing ovens. In response to these exigencies, Heraeus has developed the new Air Circulation Heating Oven for temperatures up to 500°C. Model WU 6100 combines precision and economy with convenience and utility so vital for the daily laboratory routine.



Top Priority Focuses on Precision

Heating processes make it possible to deliberately alter certain material properties. In order to successfully accomplish this objective, it is absolutely necessary that during heat treatment the materials remain consistently within a defined temperature range.

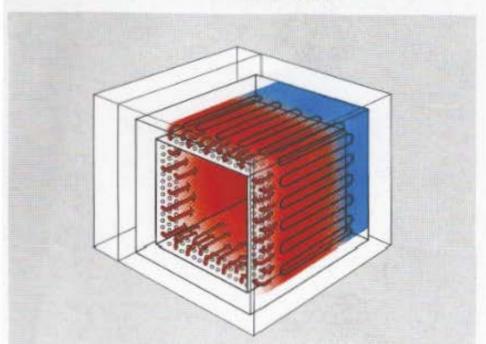
A drift of only a few degrees could be enough to cause their destruction.

Slight temperature variations, likewise, have a definite bearing on the outcome of temperature stability tests.

Given these facts, temperature constancy and uniformity were assigned a major role in the development phase of the new oven. As a result, the WU 6100 delivers precision performance at a spatial temperature uniformity of < ± 3°C and a temperature constanty in time of ± 0.5°C at rated temperature.

The fresh air flow rate, moreover, can be adjusted accurately. Defined orifice plates can be attached to the fresh air socket to thus maintain correctly metered changes of air in accordance with the temperature conditions inside the oven.

The WU 6100 is delivered with two additional orifice plates of differing cross sections. For specific air change rates/temperature conditions not covered, Heraeus will, on request, determine the necessary orifice size and document the required conditions in a test report.



The Air Jacket Principle

The WU 6100 is designed as a mechanical convection oven in order to maintain adequate temperature distribution, even when fresh air is admitted to the unit.

Efficient tubular heating elements in an air duct are laid like a jacket around five sides of the work space. The fresh air entering from outside is thoroughly mixed with the hot circulating air before the fan forces the mixture into the air duct.

En route to the inlets on the front, the air flows around the tubular be one elements where it is uniformly have before getting into the work.

AKBLUUM: 362 LEB!

The Pluses

Fully Equipped

The basic WU 6100 model features the following equipment:

- microprocessor-based program controller: Thermicon® P with a temperature/time program of up to nine segments
- adjustable overtemperature protection: temperature limit cut-cout, in acc. with Thermal Safety Class 2
- damper in the fresh air socket to regulate the air supply
- 2 stainless steel shelves
- exhaust socket with chimney

Versatile

In addition to the basic accessories, there are many optional extras to adapt the WU 6100 to user-specific applications:

- microprocessor-based program controllers Eurotherm 2404 P4
- computer interfaces RS 232 and RS 422/485 for Eurotherm temperature controllers
- elapsed time meter
- provision for connection to an external temperature recorder.
 Additional NiCr-Ni thermocouple in the work space with recorder connection outlet
- round chart temperature recorder to record the oven temperature with separate thermocouple
- provision for connection to a central monitoring system, for ex. warning signal. This signal will be triggered if the overtemperature protection responds.
- tubular leadthrough in the right side wall

Handy

- compact overall dimensions
- work space: 95 liters
- inner casing of corrosion-resistant stainless steel
- readjustable door
- easily replaced door gasket
- 5 shelf supports

Safe and Energy-Efficient

High-grade, microporous insulating materials and fibers of aluminium silicate ensure

- that consumption of energy is low: Heat loss into the surroundings is effectively contained
- low surface temperatures:
 Max. surface temperature is 60°C.

 At rated temperature, the operator-accessible areas do not reach above 40°C so that there is no risk of getting burned.

Set temperature	Temperature variation with air circulation	Temperature variation with fresh air operation (°C)
100	≤+1	≤±2
200	≥±1.5	≤±4
300	≤+.2	≤±6
400	≥±3	≤±6.5
500	≤±3	≤±7

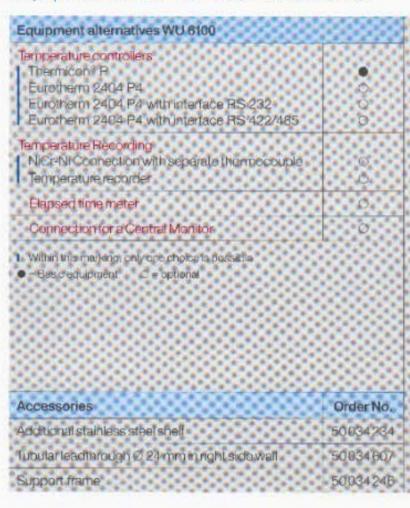
Amount of fresh air m³/h					
800000000000000000000000000000000000000	100°C	300°C	500°C		
Air flap open (fresh air).	18.6	17.3	14.8		
Orifice plate (2.15 mm	7.3	7.1	5.4		
Orlice plate Ø 10 mm	2.7	2.7	2.6		

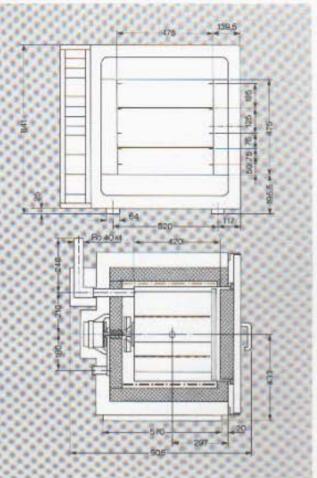
Technical Dat	ta WU 6100			
Rated temper	500			
Spoiled temperature variation in accord: with DIN 12880 Part 2 (at rated temperature) approx. K				13
Temperature v with DIN 1288	± 0.5			
Volume of cha	moer			95
Shokes:	máx numbor p	ossible		5
	dimensions:	width death	mm mm	465 365
	permissible loa	đ	kg/sholf	151)
int dimension	S.	width height depth	mm mm	475 475 420
Ext dimension	15.	width hoight depth incl. door b		895 840 905
		chimney	⊘ mm	70
Weight of emi	oly, overr		kg	195
Rated voltage	connected load) r at rated temperatu	ιę̃	RW V (AC) RWh/h	5.4 380 2.0
Risc time up t	0.500°C	908-90	min	70
Degrae of prof	IP 20			

") Max. everalfpermissible load: 45 kg

REBURNING OF HEDE

Equipment Alternatives, Accessories





International Subsidiaries

Austria

Heraeus Instruments GmbH Wien Tel. (1) 80140-0 Fax (1) 8014040

Belgium

VAN DER HEYDEN S.A./N.V. Brussel Tal. (2) 2120611 Fax (2) 2120701

Denmark

Axeb Danmark A/S tlf. +45 4362 4647 www.axeb.dk

Finland

Instrumentarium Corporation Tal. (9) 52 81 Fax (9) 52 41 44 e-mail: firstname.sumame@ instrumentarium.fi

France

Heraeus S.A.S. Courtaboeuf Cedex Tel. (1) 69 184848 Fax (01) 69 282179 Prolabo Fontenay-sous-Bols Tel. (1) 4514 8500 Fax (1) 4514 8550

U.K./Ireland

Heraeus Instruments Ltd. CM15 9TB Tel. (1277) 231511 Fax (1277) 261856

Italy

AHSI S.p.A. Nord Cavenago Brianza Tel. (2) 95 08 11 Fex (2) 95 08 12 77

AHSI S.p.A. - Centro/Sud Massa Martena PG Tel. (75) 89:55:307/8 Fax (75) 89:55:330

Netherlands

Dijksts Versenigde B.V. Leystad Tei. (320) 26 61 11 Fax (320) 25 73 64 e-mail: dijkstra@flnot.ne

Norway

Oslo
Tel. 22159250
Fax 22 22 6754
e-mail: firmapost@houm.no

Spain

Heraeus S.A. Madrid Tel. (91) 3:58:19:96 Fax (91) 3:58:20:67

e-mail: heraeus@mx3.redestb.es

Sweden

Heraeus AB Upplands Väsby Tel. (5) 59 07 21 90 Fex (8) 59 03 16 00 a-mail: admin@heraeus.se

Switzerland

Heraeus AG Zürich Tel. (1) 4:541212 Fax (1) 4:541299

e-mail: heraeus-ag@swissonline.ch

Heraeus S.A. Carouge-Genève Tal. (22) 3 43 21 67 Fax (22) 3 42 38 31 e-mail: heraeus-sa@swissenline.ch

USA

Heraeus instruments Inc. N.J. 07060 Tel. (908) 754-0100 Fax (908) 754-9494

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Heraeus Instruments GmbH & Co. KG P.O.Box 15 63 63405 Hanau/Germany Tel. ++49(6181) 35-300 Fax. ++49(6181) 35-5944