

## DRYING SAMPLE

### WS 2500 to WS 2508 High-speed Infra-red Drying Cabinet High-Speed Infra-red Drying Cabinet & Laboratory Ovens

- **Easy setting with a temperature calibrated scale**
- **Rapid dryin and height adjustment is at user desirable**

The “DIMENSI” high speed infra-red drying cabinet is manufactured for the purpose for drying the bulk materials for the preparation before compaction and/or grading tests.

Made of solid steel cabinet and comes with steel tray 951 x 600 x 20 mm deep. Provided with 8 infra-red lamps to increase the total heat output equivalent of 2 000 watts and the ventilation fans is carefully position in order to permit proper rapid air flow and heat convection over the test samples giving rapid air flow and heat over the sample, quick drying action even with heavy clay-type of soils. Provide two heat switch to vary the amount of heat consumption require.

External dimensions 674 x 1081 x 861 mm (length x width x height) of total weight 125 kg.

#### WS 2500 DIMENSI Infra-red Drying Cabinet, as explained

**WS 2500/1** Power for 220-240V, 50Hz, 1Ph

**WS 2500/2** Power for 110-120V, 60Hz, 1 ph

#### Accessories

**WS 2501** Oven Tray for WS 2500

**WS 2502** Infra-red Lamp

**WS 2502/1** Infra-red Lamp, 275 W, 220 V

**WS 2502/2** Infra-red Lamp, 275 W, 110 V

**Min Economy Range 220 °C**

**DIMENSI**

Sizes : 6 to 75 litres

Easy-clean powder painted body, Direct reading thermostat, Fitted with thermostat at dial lock, Natural convection, Temperature ranges 40 to 220 °C, Fluaction : ± 0.75 °C

#### OPTIONAL EXTRAS

Stainless steel work chamber, Mechanical convection, Dial thermometer, Safety thermostat with indicator.



REF	INTERNAL DIMENSIONS HxWxD	EXTERNAL DIMENSIONS HxWxD	LITRES	NO. OF SHELVES	SHELVES POSITION	WATTS	WEIGHT	MODEL
MINO/6	15x23x18	37x33x30	6	1	1	300	7	<b>WS 2503</b>
MINO/18	26x26x27	47x36x38	18	2	2	500	14	<b>WS 2504</b>
MINO/30	24x36x35	46x45x47	30	2	2	750	20	<b>WS 2505</b>
MINO/40	32x36x35	54x45x47	40	2	3	750	23	<b>WS 2506</b>
MINO/53	33x49x33	55x58x45	53	2	3	1000	26	<b>WS 2507</b>
MINO/75	33x49x46	55x58x58	75	2	3	1250	34	<b>WS 2508</b>

Positive or negative aggregate correction factor    One sample heat protection cage  
 Programmable weight loss limit for measurement    Data collection and storage console  
 Interface : RS-232 for data transfer to computer or printer  
 Baud rate : 600 to 9600 Baud  
 Automatic startup and shut down timer

## DRYING SAMPLE

### WS 2509 TO WS 2513 Laboratory Ovens

**MIDO Range Laboratory Ovens**  
**Mankopuri (Made in UK)**

Choice of work chamber materials  
 Sizes : 33 to 185 litres  
 Fitted with dial locking device  
 Natural or mechanical convection  
 Safety thermostat with indicator



#### WORK CHAMBER AVAILABILITY

<b>ALUMINIUM</b>	SIZES 1 TO 3	40 °C TO 200 °C ± 0.5 °C
<b>CLAD</b>	SIZES 1 TO 6	40 °C TO 250 °C ± 0.75 °C
<b>STAINLESS STEEL</b>	SIZES 1 TO 6	40 °C TO 250 °C ± 0.75 °C

**DESIGN**

The Exterior is constructed from Blue Stelvetite (zinc coated sheet steel galvanised and finish on the face with PVC). The Interior is made from polished aluminium sheet (not suitable for use at temperatures in excess of 200 °C), with a choice of stainless steel or mild steel coated with aluminium. Fitted with shelf runners and removable plated steel wire grid shelves, The top vent tubulure is fitted with a clip to hold a mercury lass thermometer.

Hydraulic thermostat fitted with a circular calibrated scale dial, overheat thermostat, mains switch and heat/overheat state lamp, with triac elements switchig. A tamper proof dial locking device is fitted as standard. For 220/240 V, 50 Hz.

**HEATING**

By low thermal capacity elements positioned below the chamber floor on Sizes 1 to 5. By incoloy sheathed elements positioned in the fan duct on Size 6

**CONTROLS**

DIMENSIONS IN CMS	INTERNAL HxWxD	EXTERNAL OVERALL HxWxD
MID 1	35x31x30	60x42x43
MID 2	33x49x33	60x60x45
MID 3	40x49x38	70x60x45
MID 4	50x49x46	80x60x59
MID 5	56x49x46	86x60x59
MID 6	71x51x51	104x69x75

**FOR FAN UNITS ADD 13 TO EXTERNAL DEPTH**

Models	WS 2509	WS 2510	WS 2511	WS 2512	WS 2513	WS 2513
	MID 1	MID 2	MID 3	MID 4	MID 5	MID 6
Weight in kilos	20	26	34	40	45	60
Capacity in litres	33	53	75	113	120	185
Shelf positions	3	3	3	4	4	6
No. of shelves	2	2	3	3	3	4
Oven wattage	650	800	1000	1300	1500	1500
<b>PERFORMANCE (MINS)</b>						
Heat up time to 100 °C	34	31	33	34	37	38
Heat up time to 200 °C	50	47	48	50	55	60
Recovery time to 100 °C	13	13	14	14	15	16
<b>ORDER CODE</b>						
ALUMINIUM	0025	0029	0033	N/A	N/A	N/A
ALUMINIUM WITH FAN	2569	2969	3369	N/A	N/A	N/A
CLAD	0024	0028	0032	0036	0104	N/A
CLAD WITH FAN	2469	2869	3269	3669	10469	0177
STAINLESS STEEL	0026	0030	0034	0038	0106	N/A
STAINLESS STEEL WITH FAN	2669	3069	3469	3869	10669	N/A

## DRYING SAMPLE

### WS 2551 TO WS 2561 Laboratory Ovens

#### Large Capacity 250 °C Ovens Mankopuri (Made in UK)

- Mechanical convection
- 12 Sizes : 225 to 1250 litres
- Stainless steel workchamber
- Safety thermostat with indicator
- Extractor optional extra  
( Order code : 0241 )

- Extractor optional extra  
( Order code : 0241 )
- Dial thermometer fitted as standard  
( Except on digital control types )
- Silicon rubber door seating
- Digital or programmed controls available  
( See page )

MODELS	WS 2551	WS 2552	WS 2553	WS 2554	WS 2555	WS 2556
	8H	12H	15H	18H	22H	24H
Internal dimensions (cms) HxWxD	60x92x44	60x92x64	76x92x64	91x92x64	91x92x77	72x150x64
External dimensions (cms) HxWxD	94x104x54	94x104x74	112x104x7	127x104x8	127x104x8	108x158x74
Volume (approx) litres	225	335	4	8	8	675
Shelf positions	4	4	425	510	630	5
Number of shelves	3	3	5	7	7	5
Space between shelves (cms)	10.5	10.5	4	5	7	10.5
Usable shelf size (cms)	89x41	89x61	10.5	10.0	10.0	147x61
Maximum load height (cms)	44	44	89x61	89x61	89x74	58
Net weight (kgs)	80	120	58	76	76	185
Power rating (kw)	2.0	2.5	150	165	180	4.0
Standard voltage 1 Ph	240	240	3.0	3.0	4.0	415
Standard control	Electronic	Electronic	240	240	415	Electronic
Temperature range in °C	40-250	40-250	Electronic	Electronic	Electronic	40-250
Fluctuation	±0.4	±0.4	40-250	40-250	40-250	±0.4
<b>ORDER CODE</b>			±0.4	±0.4	±0.4	
<b>SERIES-LCO/250</b>	0149	0152	0195	0196	0197	0184

WS 2557	WS 2558	WS 2559	WS 2559	WS 2560	WS 2561
26H	30H	35H	36H	41H	42H
106x92x77	122x92x77	142x92x77	142x122x64	72x150x110	142x122x74
142x104x88	158x104x88	178x104x88	178x134x75	108x158x121	178x134x85
720	850	1000	1100	1180	1250
8	9	11	11	5	11
5	5	5	5	4	5
10.0	10.5	10.5	10.5	10.5	10.5
89x74	89x74	89x74	119x61	147x107	119x7
88	106	128	127	57	127
200	220	240	235	265	275
4.74	4.75	5.4	5.4	6.0	6.0
415	415	415	415	415	415
40-250	40-250	Electronic	40-230	40-230	40-230
		± 0.4			
<b>01 92</b>	<b>0186</b>	<b>0187</b>	<b>0252</b>	<b>0254</b>	<b>0256</b>



## DRYING SAMPLE

### WS 2573 to WS 2581 Magnetic Stirrer

#### Magnetic Mini-Stirrers, Hanna

Models	WS 2573	WS 2574	DT 2575
<b>SPECIFICATIONS</b>	HI 190M/D	HI 200M/D	HI 190MB
<b>Maximum Stirring Capacity</b>	1 Liter	1 Liter	1 Liter
<b>Speed Range</b>			
<b>Min</b>	100 rpm	100 rpm	100 rpm
<b>Max</b>	1000 rpm	1000 rpm	1000 rpm
<b>Power Supply</b>	220/240V, 50Hz, 1pH	220/240V, 50Hz, 1pH	Power socket 12VDC supply
<b>Cover Material</b>	ABS plastic	AISI 316 Stainless steel	ABS plastic
<b>Environment</b>	0 to 50 °C; 95 % RH	0 to 50 °C ; 95 % RH	0 to 50 °C ; 95 % RH
<b>Dimensions</b>	120x120x45 mm	120x120x45 mm	120x120x45 mm
<b>Weight</b>	0.6 kg	0.6 kg	0.5 kg

#### Heavy-Duty Magnetic Stirrers, Hanna

Models	WS 2576	WS 2577
<b>SPECIFICATIONS</b>	HI 300N/D	HI 310N/D
<b>Maximum Stirring Capacity</b>	2.5 Liters	5 Liters
<b>Speed Range</b>		
<b>Min</b>	100 rpm	100 rpm
<b>Max</b>	1000 rpm	1000 rpm
<b>Auto-Feedback</b>	not applicable	Standard
<b>Power Supply</b>	220/240V, 50Hz, 1pH	220/240V, 50Hz, 1pH
<b>Cover Material</b>	AISI 316 Stainless steel	AISI 316 Stainless steel
<b>Environment</b>	0 to 50 °C; 95 % RH	0 to 50 °C ; 95 % RH
<b>Dimensions</b>	180x180x70 mm	180x180x70 mm
<b>Weight</b>	1.6 kg	1.6 kg

#### Two-Speed Magnetic Stirrer, Hanna

Models	WS 2578	WS 2579
<b>SPECIFICATIONS</b>	HI 301N/D	HI 311N/D
<b>Maximum Stirring Capacity</b>	2.5 Liters	5 Liters
<b>Speed Range</b>		
<b>Min</b>	100 to 500 rpm	100 to 500 rpm
<b>Max</b>	100 to 1000 rpm	100 to 1000 rpm
<b>Auto-Feedback</b>	not applicable	Standard
<b>Power Supply</b>	220/240V, 50Hz, 1pH	220/240V, 50Hz, 1pH
<b>Cover Material</b>	AISI 316 Stainless steel	AISI 316 Stainless steel
<b>Environment</b>	0 to 50 °C; 95 % RH	0 to 50 °C ; 95 % RH
<b>Dimensions</b>	180x180x70 mm	180x180x70 mm
<b>Weight</b>	1.6 kg	1.6 kg

#### Auto-Reverse, Magnetic Stirrer, Hanna

Models	WS 2580	WS 2581
<b>SPECIFICATIONS</b>	HI 302N/D	HI 311N/D
<b>Maximum Stirring Capacity</b>	2.5 Liters	5 Liters
<b>Speed Range</b>		
<b>Min</b>	100 to 1000 rpm	100 to 1000 rpm
<b>Auto-Feedback</b>	not applicable	Standard
<b>Power Supply</b>	220/240V, 50Hz, 1pH	220/240V, 50Hz, 1pH
<b>Reverse Internal</b>	from 30 sec. to 3 min.	from 30 sec. to 3 min.
<b>Cover Material</b>	AISI 316 Stainless steel	AISI 316 Stainless steel
<b>Environment</b>	0 to 50 °C; 95 % RH	0 to 50 °C ; 95 % RH
<b>Dimensions</b>	180x180x70 mm	180x180x70 mm
<b>Weight</b>	1.6 kg	1.6 kg



## DRYING SAMPLE

### WS 2582 to WS 2589 Magnetic Stirrer & Microwave Oven & Furnace

#### Two-Speed Magnetic Stirrer with Tachnometer, Hanna

Models	WS 2582	WS 2583
<b>SPECIFICATIONS</b>	HI 303N/D	HI 313N/D
<b>Maximum Stirring Capacity</b>	2.5 Liters	5 Liters
<b>Speed Range</b>		
<b>Min</b>	100 to 500 rpm	100 to 500 rpm
<b>Max</b>	100 to 1000 rpm	100 to 1000 rpm
<b>Tachnometer</b>	0 to 1000 rpm	0 to 1000 rpm
<b>Auto-Feedback</b>	not applicable	Standard
<b>Power Supply</b>	220/240V, 50Hz, 1pH	220/240V, 50Hz, 1pH
<b>Cover Material</b>	AISI 316 Stainless steel	AISI 316 Stainless steel
<b>Environment</b>	0 to 50 °C; 95 % RH	0 to 50 °C ; 95 % RH
<b>Dimensions</b>	180x180x70 mm	180x180x70 mm
<b>Weight</b>	1.6 kg	1.6 kg

#### Timer-Controlled Magnetic Stirrer, Hanna

Models	WS 2584	WS 2585
<b>SPECIFICATIONS</b>	HI 322N/D	HI 324N/D
<b>Maximum Stirring Capacity</b>	2.5 Liters	5 Liters
<b>Speed Range</b>	100 to 1000 rpm	100 to 1000 rpm
<b>Temer Range</b>	User selectable from 5 mins. to 2 hrs.	User selectable from 5 mins. to 2 hrs.
<b>Tachnometer</b>	0 to 1000 rpm	0 to 1000 rpm
<b>Auto-Feedback</b>	Standard	Standard
<b>Power Supply</b>	220/240V, 50Hz, 1pH	220/240V, 50Hz, 1pH
<b>Cover Material</b>	AISI 316 Stainless steel	AISI 316 Stainless steel
<b>Environment</b>	0 to 50 °C; 95 % RH	0 to 50 °C ; 95 % RH
<b>Dimensions</b>	180x180x70 mm	180x180x70 mm
<b>Weight</b>	1.6 kg	1.6 kg

#### Microwave Oven

The method is particularly suited to the determination of moisture content in fine aggregate stock piles.

Most siliceous and calcareous aggregates may be tested. Flints, slag, carbonaceous aggregates and those containing mica should not be dried in a microwave oven. The aggregate may shatter and in the case of carbonaceous material being present, ignite.

#### WS 2586 Sanyo Microwave Oven

A compact, space-saving oven with see-through door, built-in no-load protection and automatic shut-down after cycle is completed. 800W. For use with 220-240V, 50Hz, 1pH.

#### WS 2587 Sanyo Microwave oven

A compact, space-saving oven with see-through door, built-in no-load protection and automatic shut-down after cycle is completed. 800W. Capacity 0.04 cu<sup>3</sup>. For use with 220-240V, 50Hz, 1pH.

#### Muffle Furnace

Muffle furnaces are widely used for determining various properties of construction materials. In particular Loss of Ignition and Ashing are two characteristics.

#### WS 2589

##### DIMENSI Muffle Furnace Model CSF 11/5/91

Vented chamber, \* Rapid heating and cooling, \* Safety door switch

\* Excellent temperature uniformity, Capacity : 5 litres

Temperature : 1100 °C

