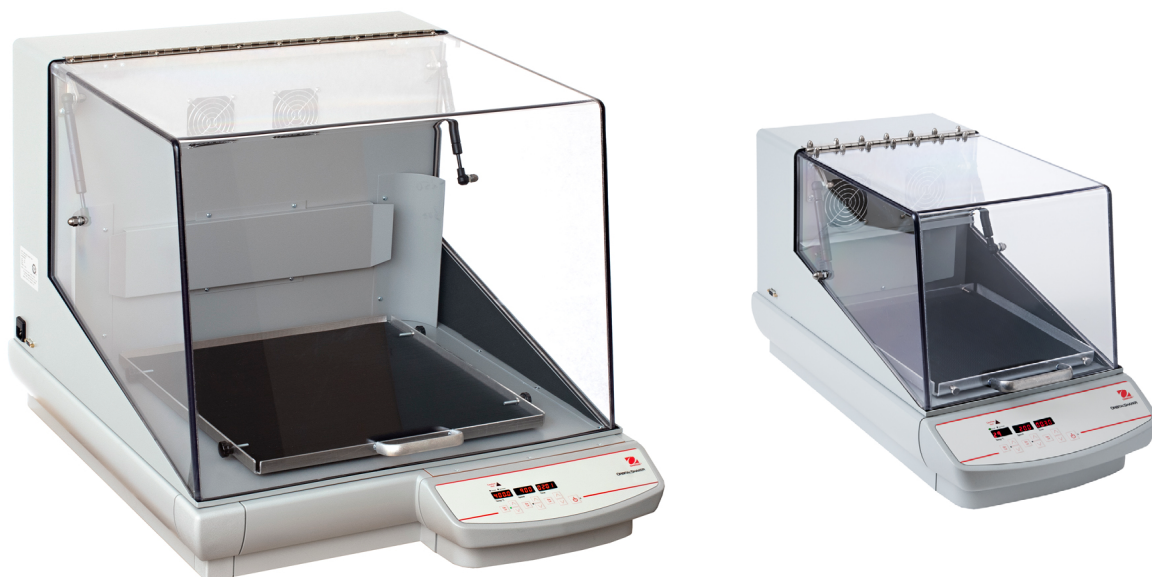




Incubating Heavy Duty Orbital Shakers



Save Incubator Space with Benchtop Incubating Shakers

Incubating Heavy Duty Orbital Shakers offer exceptional temperature uniformity and are designed for a variety of shaking and incubating applications.

Unique Features:

- The exclusive Opti-Flow Forced Ventilation System utilizes twin induction or a single large fan. Air is deflected around & not directly on samples, creating a circular flow of air ensuring uniformity.
- For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The Triple Eccentric Drive provides consistent shaking motion throughout the entire speed range.
- The chamber for the ISHD23HDG is large enough to hold 2 × 6 l Erlenmeyer flasks with optional clamps and platform.

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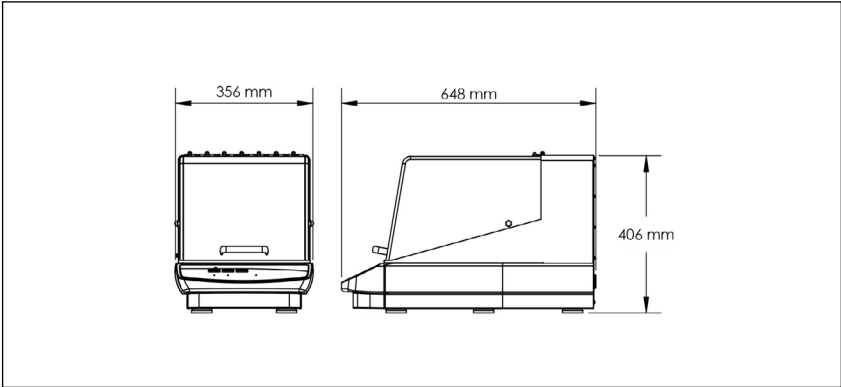
Specifications

Model	ISHD16HDG	ISHD23HDG
Motion	Orbital, 19 mm	Orbital, 25 mm
Speed Range	15 rpm to 500 rpm	
Speed Accuracy	Above 100 rpm +/-1% / Under 100 rpm +/- 1 rpm	
Temperature Range	Ambient +5 °C to 65 °C	
Temperature Uniformity	+/- 0,5 °C at 37 °C	
Calibration	Temperature Calibration	
Timer	1 second to 160 hours	
Control	Digital	
Communication	RS-232 Interface	
Max Weight Capacity	16 kg @ 75 rpm, 2,3 kg @ 500 rpm	22,7 kg @ 125 rpm, 4,53 kg @ 500 rpm
Drive System	Triple Eccentric; Brushless DC motor	
Dimensions (H x L x W)	40,6 x 64,8 x 35,6 cm	59,6 x 81,5 x 67,5 cm
Interior Dimensions (H x L x W)	24,1 x 34 x 30,5 cm	43,2 x 52,3 x 62,9 cm
Total Height with Lid-Open	84 cm	114 cm
Tray Dimensions (L x W)	33 x 27,9 cm	45,6 x 45,7 cm
Net Weight	35,9 kg	101,6 kg
Power	230 V, 50/60 Hz	230V, 50/60 Hz
Power Consumption	450 W	800 W
Working Environment	15 °C – 32 °C, 80% RH*, non-condensing	

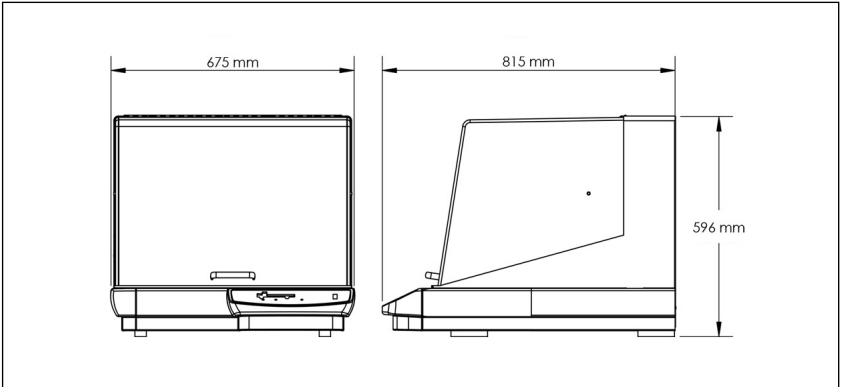
*RH = Relative Humidity

Dimensional Drawings

ISHD16HDG



ISHD23HDG



Incubating Heavy Duty Orbital Shakers

Accessories

Description	Part Number	Tube capacity per Rack	ISHD16HDG	ISHD23HDG
Universal Platform, 28 × 33 cm, S/S*	30400052	-	1	N/A
Universal Platform, 46 × 46 cm, S/S I-IR*	30400055	-	N/A	1
Rubber Mat, 28 × 33 cm	30400060	-	1	N/A
Flask Clamps, 10 ml	30400084	-	60	113
Flask Clamps, 25 ml	30400085	-	25	64
Flask Clamps, 50 ml	30400086	-	13	32
Flask Clamps, 125 ml	30400087	-	10	20
Flask Clamps, 250 ml	30400088	-	9	20
Flask Clamps, 500 ml	30400089	-	7	13
1 Liter Erlynmeyer Flask Clamp	30400090	-	4	8
2 Liter Erlynmeyer Flask Clamp	30400091	-	N/A	5
2.8 Liter Erlynmeyer Flask Clamp	30400092	-	N/A	2
3 Liter Erlenmeyer Flask Clamp	30400093	-	N/A	2
4 Liter Erlynmeyer Flask Clamp	30400094	-	N/A	4
5 Liter Erlenmeyer Flask Clamp	30400095	-	N/A	4
6 Liter Erlynmeyer Flask Clamp	30400096	-	N/A	2
500 ml Media Bottle Clamp	30400097	-	5	16
1 000 ml Media Bottle Clamp	30400098	-	2	10
Flask Clamp Pvc 125 ml	30400099	-	10	20
Flask Clamp Pvc 250 ml	30400100	-	8	18
Flask Clamp Pvc 500 ml	30400101	-	5	12
Flask Clamp Pvc 1 000 ml	30400102	-	2	8
Flask Clamp Pvc 2 000 ml	30400103	-	N/A	4
Clamp Microplate SS	30400104	-	4	12
Tube Rack 1,5-2 ml	30400114	70	2	4
Test Tube Rack 10-13 mm Diameter	30400115	63	2	4
Test Tube Rack 14-16 mm Diameter	30400116	48	2	4
Test Tube Rack 18-20 mm Diameter	30400117	35	2	4
Test Tube Rack 22-25 mm Diameter	30400118	24	2	4
Test Tube Rack For 15 ml Tubes	30400119	35	2	4
Test Tube Rack For 50 ml Tubes	30400120	12	2	4
Test Tube Rack 13 mm Pivoting	30400105	90	1	2
Test Tube Rack 16 mm Pivoting	30400106	60	1	2
Test Tube Rack 20 mm Pivoting	30400107	40	1	2
Test Tube Rack 25 mm Pivoting	30400108	24	1	2
Test Tube Rack 30 mm Pivoting	30400109	21	1	2
Test Tube Rack 10-14 mm Stationary	30400110	48	N/A	3
Test Tube Rack 16-20 mm Stationary	30400111	33	N/A	3
Test Tube Rack 21-25 mm Stationary	30400112	21	N/A	3
Test Tube Rack 50 ml Tubes Stationary	30400113	17	N/A	3

*All units require an accessory platform for mounting flask clamps or test tube racks.

Incubating Heavy Duty Orbital Shakers



Universal Platform, 28 × 33 cm, S/S*
30400052



Universal Platform, 46 × 46 cm, S/S I-IR*
30400055

Other Standard Features & Equipment

Aluminum and Cycloy construction, temperature calibration feature, overload protection, overshoot protection (temperature), load sensor, PID temperature controller, Triple Eccentric Drive system

Compliance

- **Product Safety:** CAN/CSA C22.2 No. 61010-1, CAN/CSA C22.2 No. 61010-2-010, CAN/CSA C22.2 No. 61010-2-051, UL 61010-1
- **Electromagnetic Compatibility:** ICES-003 Class A, FCC Part 15 Class A
- **Compliance Marks:** CE; RCM; TÜV SÜD; WEEE

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The management system governing the manufacture of this product is ISO 9001:2015 certified.



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