



Incubating Light Duty Orbital Shakers



Save Bench Space with Combined Incubating and Shaking Features

OHAUS Incubating Light Duty Shakers are innovatively designed to incubate samples providing accurate and repeatable results. All models feature independent displays with intuitive touchpad controls and include safety features that protect both the user and samples. These sturdy shakers feature triple eccentric drive systems for stable orbital motion with microprocessor-control for reliable shaking action.

Standard Features:

- Designed to provide flexibility in your applications, these shakers with a 4 kg capacity include the ready to use tray to customize with over 10 easy-to-install accessories.
- When precision is required achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.
- Microplate shaker is designed to hold up to 4 microplates or deepwell plates, or easily install 2 microtube racks. 2 options - opaque lid for light sensitive samples and clear lid for viewing samples.

Incubating Light Duty Orbital Shakers

Model	ISLD04HDG	ISLDMPHDG	ISLDMPHDGL
Product Description	Incubating Light Duty Orbital Shaker	Incubating Microplate Shaker	Incubating Microplate Shaker with Opaque Lid
Control	Digital		
Motion	Orbital, 3 mm		
Speed Range	100 rpm – 1200 rpm		
Speed Accuracy	± 2%		
Temperature Range	Ambient +5 °C – 65 °C		
Temperature Uniformity	± 0.5 °C at 37 °C		
Timer	1 second – 160 hours		
Capacity	3.6 kg	4 Microplates or 2 Micro-tube Racks	
Working Environment	5 °C – 40 °C, 80% Relative Humidity, non-condensing		
Drive System	Brushless DC Motor; Triple Eccentric		
Tray Construction	Aluminum		
Tray Dimensions (L × W)	279 × 197 mm		
Overall Dimensions (L × W × H)	432 × 279 × 270 mm	432 mm × 279 mm × 197 mm	
Net Weight	11.1 kg	8.9 kg	
Power	230V, 5A, 50/60Hz		
Power Consumption	450 W		

Other Standard Features and Equipment

Spill-resistant design, caution hot indicator, detachable 3-wire cord and plug (included)

Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-010, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

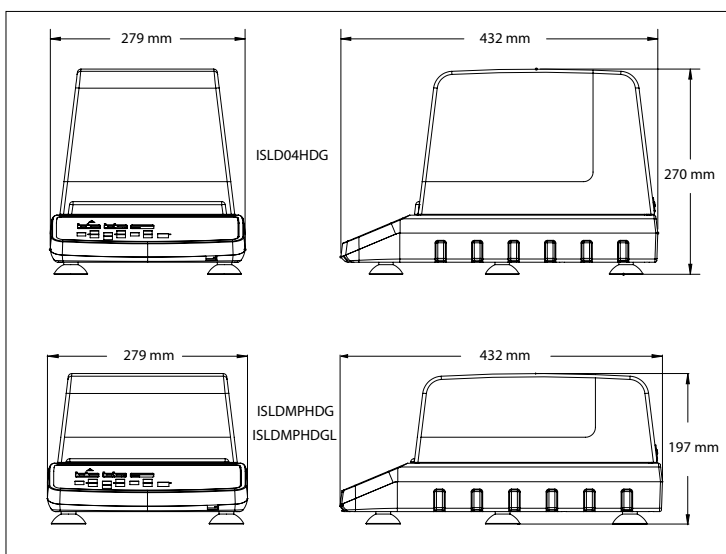
Applications

Immunoassays, hybridizations, cell cultures, bacterial & yeast cultures and suspensions, ELISA assays, PCR, enzyme reactions

Accessories

Accessories for ISLD04HDG		
Item No.	Description	Max. per Shaker
30400084	Flask Clamp, 10 mL	35
30400085	Flask Clamp, 25 mL	20
30400086	Flask Clamp, 50 mL	12
30400087	Flask Clamp, 125 mL	8
30400088	Flask Clamp, 250 mL	5
30400099	Flask Clamp PVC 125 mL	8
30400100	Flask Clamp PVC 250 mL	4
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Ø	1
30400116	Test Tube Rack 14-16 mm Ø	1
30400119	Test Tube Rack For 15 mL Tubes	1
30400120	Test Tube Rack For 50 mL Tubes	1
Accessories for ISLDMPHDG and ISLDMPHDGL		
30400114	Micro Tube Rack	2

Dimensions



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





Incubating Cooling Orbital Shakers



Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

OHAUS Incubating Cooling Shakers are innovatively designed to incubate samples from 10°C below ambient to 65°C providing accurate and repeatable results. All models feature independent displays with intuitive touchpad controls and include safety features that protect both the user and samples. Sturdy shakers feature triple eccentric drive systems for stable orbital motion with microprocessor-control for reliable shaking action.

Standard Features:

- Designed to provide flexibility in your applications, these shakers are microplate ready – no accessories required, and can easily accommodate modular blocks with the included block adapter.
- When precision is required, achieve temperature accuracy with the unique temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.
- Innovative temperature system allows for fast, accurate and uniform temperatures you can trust. The unique Peltier design with direct plate-to-sample contact offers precise heating and cooling.

Incubating Cooling Orbital Shakers

Model	ISICMBCDG
Control	Digital
Motion	Orbital, 3 mm
Speed Range	100 – 1200 rpm
Speed Accuracy	± 2%
Temperature Range	10 °C below ambient – 65 °C
Temperature Uniformity	± 0.5 °C at 37 °C
Timer	1 second – 160 hours
Capacity	2 Microplates or 2 Modular Blocks
Working Environment	5 °C – 40 °C, 80% Relative Humidity, non-condensing
Drive System	Brushless DC Motor; Triple Eccentric
Overall Dimensions (L × W × H)	419 × 257 × 279 mm
Net Weight	13.4 kg
Power	230V, 1A, 50/60Hz
Power Consumption	160 W

Other Standard Features and Equipment

Caution hot indicator, detachable 3-wire cord and plug (included)

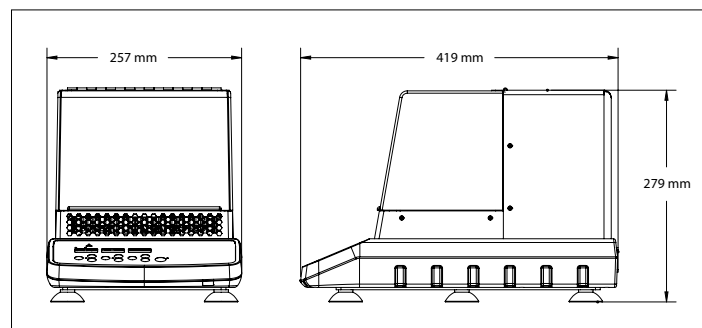
Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-010, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

Applications

Immunoassays, hybridizations, cell cultures, bacterial and yeast cultures and suspensions, ELISA assays, PCR, enzyme reactions

Dimensions



Accessories

Item No.	Description	Max. per Shaker	No. of Wells	Well Diameter (mm)	Well Depth (mm)
30400151	Module Block for 10 mm Ø Test Tubes	2	24	10.7	48.4
30400152	Module Block for 12/13 mm Ø Tubes	2	20	13.9	48.4
30400156	Module Block Combination	2	14	26.2; 13.8; 8.3	48.4
30400157	Module Block for 0.5 mL Microtaper	2	30	7.9	27.6
30400158	Module Block for 6 mm Ø Test Tubes	2	30	8.3	48.4
30400159	Module Block for 1.5 mL Microtaper	2	20	11.1	39.1
30400168	Module Block for 50 mL Conical Centrifuge Tubes	2	5	29	47.6
30400172	Module Block for 15 mL Conical Centrifuge Tubes	2	12	17.1	44.5
30400182	Module Block For Vials 12 mm Ø	2	20	12.7	30
30400183	Module Block For Vials 15 mm Ø	2	20	15.8	35
30400184	Module Block For Vials 17 mm Ø	2	12	17.8	45
30400185	Module Block For Vials 19 mm Ø	2	12	19.7	45
30400186	Module Block For Vials 21 mm Ø	2	9	21.7	45
30400187	Module Block For Vials 23 mm Ø	2	8	23.8	45
30400188	Module Block For Vials 25 mm Ø	2	8	25.8	45
30400189	Module Block For Vials 28 mm Ø	2	6	28.8	45
30400190	Module Block For Vials 16 mm Ø	2	15	16.4	45
30400191	Module Block for 2.0 mL Tubes	2	20	11.5	38.1
30400193	Module Block Combo, 50 mL, 15 mL, 1.5 mL	2	9	29; 17.1; 11.1	47.6; 44.5; 39.1
30400194	Module Block Combo—Micro Tube	2	21	11.5; 11.1; 7.9	38.1; 39.1; 27.6

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Incubating Rocking & Waving Shakers



Save Incubator Space with Unique Benchtop Incubating Rocking and Waving Shakers

OHAUS Incubating Rocking and Waving Shakers are innovatively designed to incubate samples providing accurate and repeatable results. Rocking shakers provide a controlled see-saw like motion, while waving shakers offer a smooth, low-foaming three-dimensional wave motion. All models feature independent displays with intuitive touchpad controls. Both models include safety features that protect both the user and samples.

Unique Features:

- Electronic control allows simple tilt angle, speed and temperature adjustments while the unit is still running to achieve optimal mixing.
- Achieve reproducible results you can trust. Precisely adjust the tilt angle in 1° increments, vary the speed by 1 rpm and set temperature in 1°C increments with intuitive touchpad controls.
- Innovative speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with unique, state-of-the-art motor and electronics.

Incubating Rocking & Waving Shakers

Model	ISRK04HDG	ISWV02HDG
Shaker Type	Rocking Shaker	Waving Shaker
Control	Digital	
Motion / Tilt Angle	Rocking, 0 – 15°	Waving, 0 – 20°
Speed Range	1 – 50 rpm	1 – 30 rpm
Speed Accuracy	± 1 rpm	
Temperature Range	Ambient +5 °C – 65 °C	
Temperature Uniformity	± 0.5 °C at 37 °C	
Timer	1 second – 160 hours	
Capacity	4.5 kg	2.3 kg
Working Environment	5 °C – 40 °C, 80% Relative Humidity, non-condensing	
Drive System	Stepper Motor	
Included Tray (L × W)	254 mm × 191 mm	235 mm × 184 mm
Tray Construction	Aluminum	
Overall Dimensions (L × W × H)	419 × 257 × 274 mm	
Inner Dimensions (L × W × H)	273 mm × 197 mm × 970 mm	273 mm × 197 mm × 860 mm
Net Weight	5.7 kg	6.2 kg
Power	230V, 1.87A, 50/60Hz	
Power Consumption	420 W	

Other Standard Features and Equipment

Spill-resistant design, caution hot indicator, detachable 3-wire cord and plug (included)

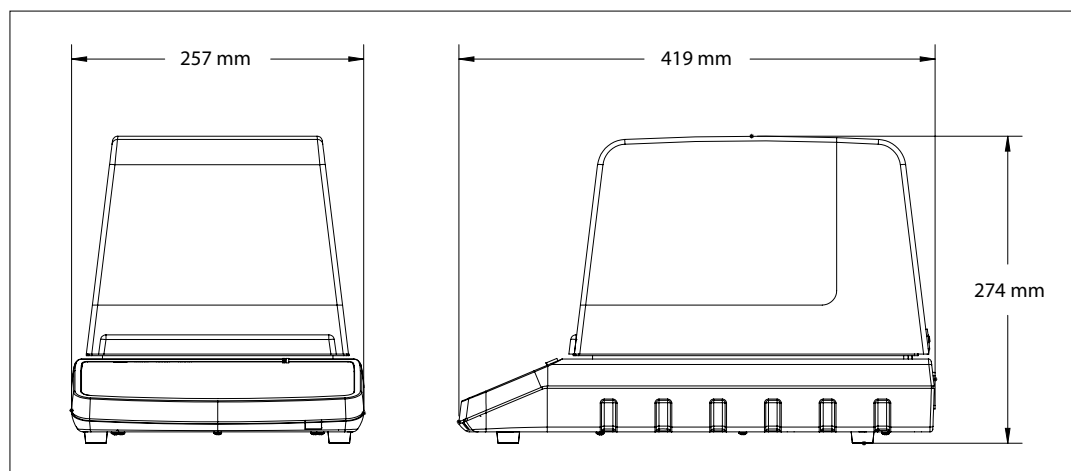
Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-010, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

Applications

Hybridizations, cell cultures, blotting techniques, staining and destaining gels

Dimensions



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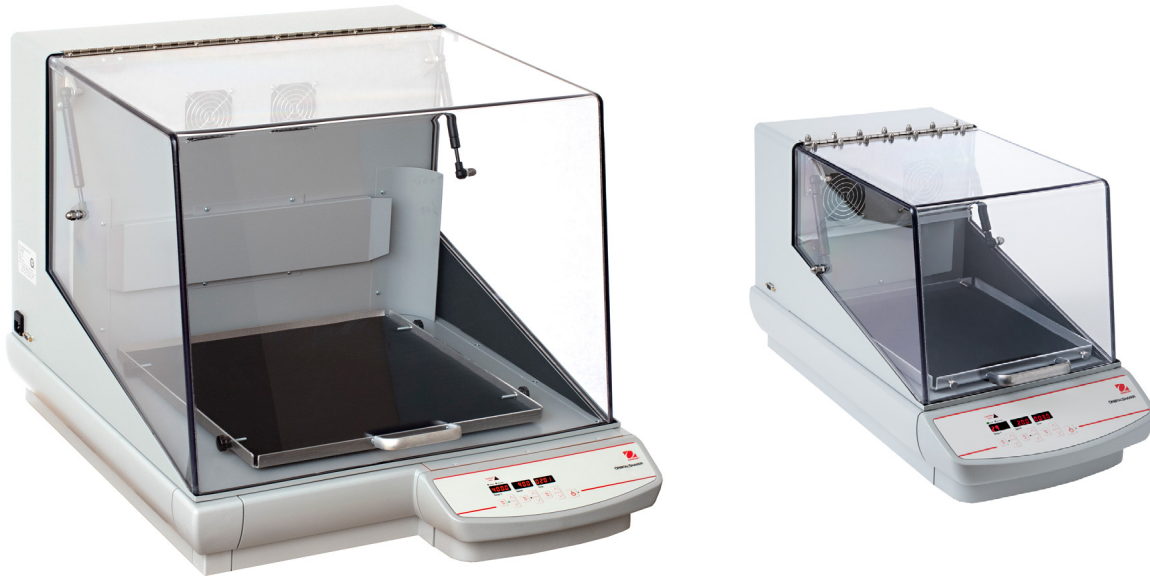
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*The management system
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Incubating Heavy Duty Orbital Shakers



Save Incubator Space with Benchtop Incubating and Incubating Refrigerating Shakers

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

Unique Features Include:

- 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 chambers for the ISHD23HDG and ISHD23CDG units are large enough to hold 2 x 6 L Erlenmeyer flasks with optional clamps and platform.

Incubating Heavy Duty Orbital Shakers

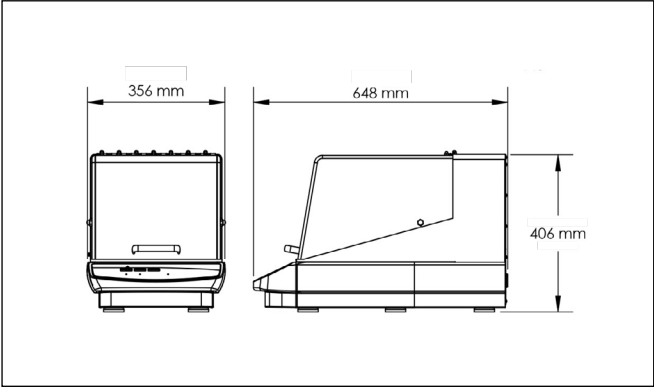
Specifications

Model	ISHD16HDG	ISHD23HDG	ISHD23CDG
Motion	Orbital, 19 mm	Orbital, 25 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		15 °C below ambient 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	59.6 x 104.4 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	
Tray Dimensions (L x W)	33 x 27.9 cm	45.6 x 45.7 cm	
Net Weight	35.9 kg	101.6 kg	131.7 kg
Power	230 V, 50/60 Hz	230V, 50/60 Hz	230 V, 50/60 Hz
Power Consumption	450 W	800 W	
Working Environment	15 °C – 32 °C, 80% RH*, non-condensing		

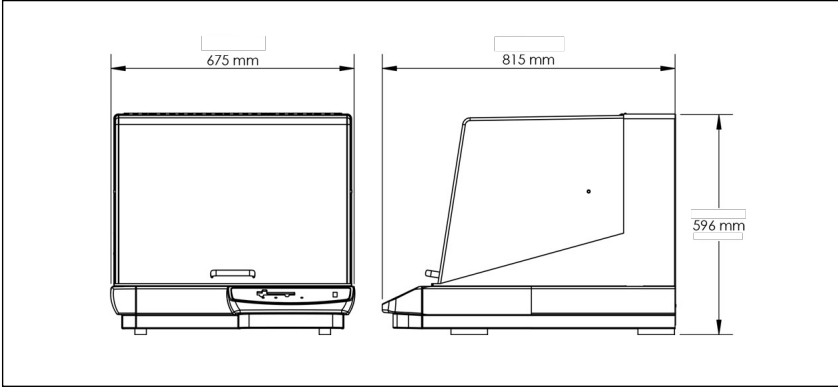
*RH = Relative Humidity

Dimensional Drawings

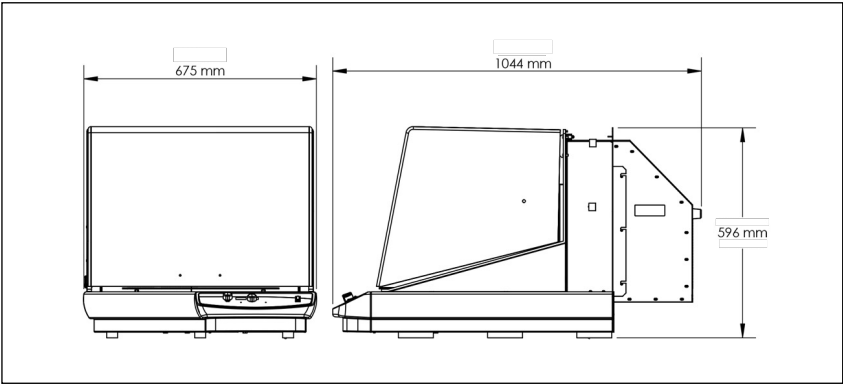
ISHD16HDG



ISHD23HDG



ISHD23CDG



Incubating Heavy Duty Orbital Shakers

Accessories

Description	Part Number	Tube capacity per Rack	ISHD16HDG	ISHD23HDG ISHD23CDG
Universal Platform, 28 x 33 cm, S/S*	30400052	-	1	N/A
Universal Platform, 46 X 46 cm, S/S I-IR*	30400055	-	N/A	1
Rubber Mat, 28 x 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
1000 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 1000 mL	30400102	-	2	8
Flask Clamp Pvc 2000 mL	30400103	-	N/A	4
Clamp Microplate SS	30400104	-	4	12
Tube Rack 1.5-2mL	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 x 33 cm, S/S*
30400052



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

Other Standard Features & Equipment

Aluminum and Cyclopy 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; UKCA; TÜV SÜD; WEEE

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