

Elektrische Schiffsheizgeräte Electrical Ship's Heater HACO

300/400/500/800/1000/1200/2000



Abb./ photo: HACO400

HACO800

HACO1200

Daten

Zertifiziert von: Germanischer Lloyd

Material (Gehäuse): seewasserfestes Aluminium
Pulver beschichtet in Farbton hell
elfenbein RAL1015
Bauart: Schutzart IP55 nach IEC60529
Einbauort: Wohnräume, Bäder, Stores und
Maschinenräume
Montageart: Wandmontage
Ausstattung: Eingebauter Thermostat mit Ein-
/Ausschalter
Sicherheitstemperaturbegrenzer
(STB)
Anschlußspannung: 230 V oder 440V AC bestellbar
Kabeleinführung: PG 16
Leistung: 300W, 400W, 500W, 800W, 1000W,
1200W, 2000W

IBAK liefert außerdem elektrische Heizgeräte

- Typ HGL/MA in militärischer Ausführung nach VG 88974
- Typ HWG in strahlwasserdichter Ausführung IP65
mit Leistungen von 500W – 2000W

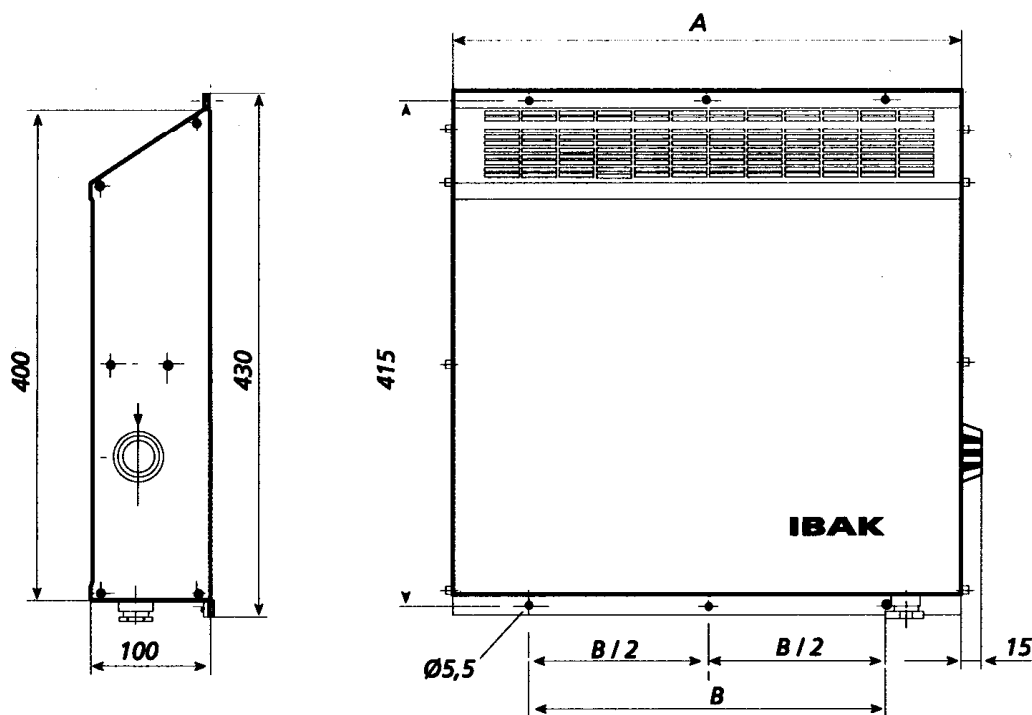
Data

Certified by: Germanischer Lloyd

Material (Housing): seawater-resistant Aluminium
powder coated, colour: light ivory RAL1015
Design: Protection class IP55 acc. to IEC60529
Place of installation: Living quarters, bath rooms, stores and
engine rooms.
Type of installation: Wall mounting
Fittings: incorporated thermostat with on/off switch
Safety temperature limiter (STB)
Connection voltage: 230 V or 440V AC available
cable inlet: PG16
Power: 300W, 400W, 500W, 800W, 1000W,
1200W, 2000W

IBAK also supplies electrical heaters

- Type HGL/MA for Navy vessels in accordance to VG 88974
- Type HWG merchant marine design, hose-proof version IP65
power range of 500W – 2000W



Typ	HACO 400	HACO 500	HACO 800	HACO 1000	HACO 1200	HACO 2000
P (W)	300 / 400	500	800	1000	1200	2000
A (mm)	420	420	650	940	940	1425
B (mm)	300	300	530	820	820	1200
Gewicht/ Weight (Kg)	3,5	3,5	5,0	7,0	7,0	10,0

Type Approval Certificate

This is to certify that the undomestic product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **99 585 - 84 HH**

Company **IBAK
Helmuth Hunger GmbH & Co. KG
Weidenweg 122
24148 Koll, GERMANY**

Product Description
1. Electric space heaters, surface, convector type
2. Electric space heaters, surface, convector type

Type
1. HACO 500, HACO 1000, HACO 1500, HACO 2000
2. HACO 300, 400, 500, 800, 1000, 1200, 1500, 2000

Environmental Category
A

Technical Data /
Range of Application
1. Permanently fixed (vertical), cover of perforated steel sheet - hammerblow effect painted, with safety temp limiter and 2 position switch (except HACO 500)
Rated voltage : 230 V AC 2 poles, on request 115 / 380 / 400 / 440 V AC
Rated power : 500 W, 1000 W, 1500 W, 2000 W
Degree of protection : IP 65
Heating elements : 500 W or 750 W metal-sheathed tube with "connector" or "lamella"

2. Permanently fixed, housing aluminium sheet - hammerblow effect, with safety temp limiter and temp. controller
Rated voltage : 230 V, 400 V or 480 V AC 2 poles
Rated power : 300 W, 400 W, 500 W, 800 W, 1000 W, 1200 W, 1500 W, 2000 W
Degree of protection : IP 65
Heating elements : metal-sheathed tube with lamellas

Test Standard
Guidelines for the Performance of Type Approval Part 7.2, Edition 2003

Documents
Test reports dated 30.07.87, 09.12.87, 24. - 28.02.87, 20.03.91, 22.03.91, 06.06.91, test plan P-HACO, 0403.001-007, data sheets 20000914HAWG, 20110203HACO, CBA certificate No. 0102010001/09.85, 012424000/09.85

Remarks
Operating instruction of the manufacturer to be observed

Valid until **2016-09-06**

Page **1 of 1**

File No. **L.P.02**

Hamburg, **2011-09-07**

Germanischer Lloyd
Thomas Hartmann
Jochen Zeyher

Type Approval Symbol **GL**

This certificate is based on the basis of "Guidelines for the Performance of Type Approval Part 7.2, Edition 2003"