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E.G.O. Product Compendium
for EGO Induction Units
AdAsI, Basic 1, Basic 2, Basic 3, Basic 3 FSR,
Basic 4, G5, G5S, SemiPro, Area and Matrix
Instructions for Use and Handling

1. Name of Company

a. Manufacturer/Supplier

E.G.O. Elektro-Gerätebau GmbH

b. Street/PO Box

Blanc-und-Fischer-Platz 1-3

c. Zip code/Town or City

75038 Oberderdingen
Germany

d. Contact

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2. Product Name and Properties

a. Product description

AdAsI:	72.08014.XXX
Induction Basic 1 (VDE):	75.08010.XXX
Induction Basic 2 (VDE):	75.08014.XXX
Induction Basic 3 (VDE):	75.08022.XXX
Induction Basic 3 FSR (VDE):	75.08027.XXX
Induction Basic 4 (VDE, CQC):	72.08040.XXX
	72.08041.XXX
	72.08042.XXX
Induction Basic 4 (UL):	72.08043.XXX
Induction Generation 5 (VDE, CQC):	75.08011.XXX
	75.08012.XXX
	75.08016.XXX
Induction Generation 5 (UL):	75.08017.XXX
	75.08018.XXX
	75.08019.XXX
Induction Generation G5S (VDE):	75.08024.XXX
	75.08025.XXX
SemiPro (VDE):	75.08011.9XX
SemiPro (UL):	75.08017.9XX
Induction Matrix (VDE):	75.08031.XXX
Induction Matrix (UL):	75.08038.XXX
Induction Area (VDE, CQC):	75.08026.XXX
Induction Area (UL):	75.08038.XXX

b. Use/application

EGO Induction parts (single components and heating systems) are designed for household induction hobs.

EGO induction units are intended for supervised operation only [according to EN60335-1].

c. Product structure

Induction G5 (components and heating system)

- Generator
- Inductors
- User interface
- Mounting plate
- LIN cables (not for components)

Induction G5S (components and heating system)

- Generator
- Inductors
- User interface
- Mounting plate
- LIN cables (not for components)

Induction SemiPro (components and heating system)

- Generator
- Inductors
- User interface
- Mounting plate
- LIN and mains voltage cables (not for components)

AdAsI (components)

- Induction module
- Inductor

Induction Basic 1 (components)

- Inductive heating element (IHE)
- Connection unit (CU)

Induction Basic 2 (components)

- Induction module(s)

Induction Basic 3 and Basic 3 FSR (components and heating system)

- Generator
- Inductors
- User interface
- LIN cable

Induction Basic 4 (components and heating system)

- Generator
- Inductors
- User interface
- Mounting plate
- LIN cables (not for components)

Induction Matrix (heating system)

- Generator
- Inductors
- User interface
- Mounting plate
- EGO Bus cables

Induction Area (heating system)

- Generator
- Inductors
- User interface
- Mounting plate
- EGO Bus cables

d. Product features

Voltage range/frequencies/currents

Rated voltage	200 V – 240 V (+10 % / -20 %) (G5, G5S, SemiPro, Matrix, Area) 220 V – 240 V (-10 %+6 %) (Basic 1, Basic 2, Basic 3, Basic 3 FSR, Basic 4)
Rated frequency	50/60 Hz
Rated current	16 A per phase
Note for appliances with Schuko plug	The max. power consumption of the whole induction system must be limited to 3.5 kW max. Details on this topic can be found in the corresponding customer documentation (see chapter 4.f).

Undervoltage protection

Undervoltage detection	$U_{\text{under}} < 180 \text{ V}$ typically, $U_{\text{under}} < 170 \text{ V}$ (Basic 3, Basic 4) $U_{\text{under}} < 160 \text{ V}$ typically 150 V (Area, Matrix)
Hysteresis for restart	typically $U_{\text{under}} + 10 \text{ V}$ (G5, G5S, SemiPro, Basic 2, Area, Matrix) typically, $U_{\text{under}} + 5 \text{ V}$ (Basic 1) typically, $U_{\text{under}} + 1 \text{ V}$ (171 V) (Basic 3) typically, $U_{\text{under}} + 30 \text{ V}$ (200 V) (Basic 4)

Overvoltage protection

Response threshold	typically, 340 V AC (G5, G5S, SemiPro, Basic 2) typically, 280 V AC between X2 and X4 (Basic 1) typically, 320 V between X1 and X3 (Basic 1) typically, > 300 V (Basic 3) typically, > 280 V (Basic 4) typically, 290 V AC (Area, Matrix)
Maximum connection voltage	440 V AC (protection only!)
Maximum duration of max. voltage	30 min at $T_a 40 \text{ }^\circ\text{C}$

Standby consumption

Requirements pertaining to EC No. 1275/2008 Annex 2 are met by the induction systems.

Voltage/frequency for nominal power output

Nominal voltage U_n	230 V +/- 1 % (VDE) 240 V +/- 1 % (UL)
Nominal frequency f_N	50 Hz (VDE) 60 Hz (UL)

Output tolerance [EN 60335-2-6]

Nominal operation:	-10/+5 %
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3. Typical Hazards

a. General

EGO household induction units (G5, G5S, SemiPro, AdAsI, Basic 1, Basic 2, Basic 3, Basic 3 FSR, Basic 4, Area, Matrix) are not dangerous substances in the sense of the EC Dangerous Preparations Directive (1272/2008/EC) or German Hazardous Substances Ordinance (GefStoffV) and thus are not subject to labeling requirements.

Without the written consent of E.G.O., EGO induction units may be used only in the context described here. Non-intended uses (see 2.b) of the EGO induction units may lead to hazards that are not described in this fact sheet. Additional specifications can be found on the respective type drawing.

b. Storage

Before commissioning a system make sure that no condensation has appeared to the electronics. A condensation test for the induction system has to be performed at 40 °C max.

c. Fitting/handling

The EGO induction units supplied must be installed by qualified electricians only [according to DIN VDE 0105].

A suitable cable must be used to connect the EGO induction units [DIN EN 60335-1 internal + external wires].

A suitable fuse (rated value according to user interface) must be used [DIN EN 60335-1 mains connection cord].

The mounting has to be performed in a way that the ingress of moisture is avoided permanently.

If the mounting instructions are not considered, there will be the risk of losing performance and electrical and functional safety might not be assured any more.

d. Use/operation

EGO induction units have been tested according to EN 60335-2-6, section 19 (Normal and abnormal operation).

e. Environment/ecology

No negative effects on the environment are anticipated if the EGO induction units are used as intended and disposed of properly.

4. Notes on Use

a. General

EGO induction units may be used in household stove tops only (intended use).
Without prior consultation with E.G.O., the EGO induction units may be used only for their designated purpose. Non-intended use of the EGO induction units may lead to hazards that are not described in this document.
EGO inductions are intended for supervised operation only.

b. Servicing

The EGO induction unit is maintenance-free and therefore does not require servicing at specified intervals.

c. ESD requirements

Requirements under IEC 61340-5-1:2007 Electrostatics are to be observed.

d. Working/transport temperature and air humidity

- Transport (short-term):
-25 °C to 70 °C
→important: no condensation
- Operating temperature
0 °C to 85 °C, max. 95 % rel. humidity (T < 40 °C)
→important: no condensation

e. Restrictions

EGO induction units are intended exclusively for domestic use.

f. Assembly and installation instructions

- Assembly and installation instructions for EGO G5 induction unit can be found in document 90.60019.107.
- Assembly and installation instructions for EGO G5S induction unit can be found in document 90.60040.657.
- Assembly and installation instructions for EGO SemiPro induction unit can be found in document 90.60043.209.
- Assembly and installation instructions for EGO Basic 1 induction unit can be found in document 90.60043.435.
- Assembly and installation instructions for EGO Basic 2 induction unit can be found in document 90.60040.129.
Assembly and installation instructions for EGO Basic 3 induction unit can be found in document 90.60040.136.
- Assembly and installation instructions for EGO Basic 3 FSR induction unit can be found in document 90.60047.411.
- Assembly and installation instructions for EGO Basic 4 induction unit can be found in document 90.60069.675.

g. Recommended notes for the technical customer documentation

- Information for the operating manual for systems with EGO G5 induction units can be found in document 90.60019.107.
- Information for the operating manual for systems with EGO G5S induction units can be found in document 90.60040.657.
- Information for the operating manual for systems with EGO SemiPro induction units can be found in document 90.60043.209.
- Information for the operating manual for systems with EGO Basic 1 induction units can be found in document 90.60043.435.
- Information for the operating manual for systems with EGO Basic 2 induction units can be found in document 90.60040.129.
- Information for the operating manual for systems with EGO Basic 3 induction units can be found in document 90.60040.136.
- Information for the operating manual for systems with EGO Basic 3 FSR induction units can be found in document 90.60047.411.
- Information for the operating manual for systems with EGO Basic 4 induction units can be found in document 90.60069.675.

h. Information on glass ceramic

For induction cooktops it is only allowed to use glass ceramic with a thickness of 4 mm (exception: a special variant of SemiPro induction unit is designed to be used with a glass ceramic with a thickness of 6 mm). The serigraphy of the glass has to ensure that a pot definitely covers the temperature sensor while cooking. The temperature sensor is in the middle of the coil and is ideally covered with the middle of the pot. If other glass thicknesses are used or if the temperature sensor is not covered by the respective pot while cooking it can lead to risks or unwanted properties.

i. Storage temperature

Comply with the following storage conditions:

- Have a storage temperature between 0-45 °C. Recommended is 10-25 °C with 50-60 % humidity for a storage with initial packaging.
- Store dry in a closed room. The packaging of the induction is designed for a transport with maximum 85 % relative humidity at 38 °C for a short-term period.
- Have a protection against corrosion and pollution. E.G.O. recommends storing in appropriate containers for electrical equipment to protect the induction particularly from corrosion and dirt.
- A block storage by stacking pallets on top of each other is not allowed.

j. Notes on Disposal

Metal parts and packaging are to be recycled or reused in accordance with the applicable regional/national provisions [under 2002/96/EC Waste Electrical and Electronic Equipment].

5. Relevant Regulations

a. Standards/norms

Environmental regulations

All components used by E.G.O. have been released by our suppliers in accordance with the REACH [1907/2006/EC] and RoHS [2011/65/EC].

Safety regulations

Safety standard:

EN 60335-1	Safety of electronic components for household use and similar purposes.
EN 60335-2-6	Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
EN 60730-1	Automatic electrical controls for household and similar use

UL-related:

UL 60730-1, CAN/CSA-E60730-1 Automatic electrical controls for household and similar use

Usability

EN 60350-2:2017 Electric cooking ranges, hobs, ovens and grills for household use. Methods for measuring performance

EMC standard

EN 55014 – 1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-2	Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity
EN 61000 – 3	Harmonic current emissions
EN 55014 – 2	Electromagnetic compatibility
EN 62233	Electromagnetic fields

b. Transport regulations

IEC 68-2-31	Transport test for unpackaged components
IEC 68-2-32	Transport test for packaged components
IEC 68-2-6	Vibration test for unpackaged components

No hazardous materials

c. Product approvals

Basic 1	VDE, CQC
Basic 2	VDE
AdAsI	VDE, CQC
Basic 3, Basic 3 FSR	VDE
Basic 4	VDE, CQC, UL
G5	VDE, CQC, UL
G5S	VDE
SemiPro	VDE, UL
Matrix	VDE, UL
Area	VDE, CQC, UL

6. Other Information

a. General

Attention is drawn expressly to the fact that the EGO induction units may be used only for the use designated in this product compendium.

More information about application and use can be found in the respective information documents and type drawings.

All information is based on the current state of the art and lays no claim to completeness. In particular specific references and advices in further product documentations remain reserved.

The information only informs about the necessary safety measures and does not constitute a warranty of specific features.

b. Changes from previous version

2015-02-24:

- Addition of G5S und SemiPro
- Addition chapter 4.h
- In chapters 4.f and 4.g PLM numbers updated

2017-06-23:

- Standards adapted to current versions
- Phrasing re-worked

2018-01-12:

- Induction AdAsI, Basic 3 FSR and Basic 4 added
- UL and CQC versions for G5 and SemiPro added
- Product structure updated (chapter 2.c)

2018-03-23:

- Note for power limitation for appliances with Schuko plug added (chapter 2.d)

2019-01-19:

- KC approval Basic 4 added
- Undervoltage and Overvoltage values for Basic 4 added

2022-12-09:

- Approbation updates of Basic 4
- Approbation updates of SemiPro
- Added Area and Matrix in all chapters
- Update of voltage/frequency for nominal power output
- Update of storage
- Update of Environmental regulations
- Update of EMC standards
- Update of safety regulations
- Overall orthography corrections