

OXYGEN/NITROGEN/HYDROGEN ANALYZERS (STANDARD TYPE)



ELA-ONH35

- Widely used in iron, non-ferrous metals, new materials, magnetic materials, new energy, research institution, etc.
- Can analyze oxygen, nitrogen, and hydrogen in alloys, lithium battery materials, powders, rare earths, neodymium-iron-boron materials, etc.
- Can analyze the oxygen in various oxide and the nitrogen in various nitride
- Test method can be established for different types of sample
- Thermal extraction is used to analyze the content of residual hydrogen in the sample
- Featured software with linearization and self-diagnostic function
- Automatic switching of channel from low to high content

SPECIFICATION

Code	ELA-O35	ELA-N35	ELA-ON35	ELA-ONH35	ELA-H35	ELA-OH35
Analysis element	O	N	O, N	O, N, H	H	O, H
Analysis range**	O: 0.1ppm~0.5%*	N: 0.1ppm~50%	O: 0.1ppm~0.5%* N: 0.1ppm~50%	O: 0.1ppm~0.5%* N: 0.1ppm~50% H: 0.1ppm~0.5%	H: 0.1ppm~0.5%	O: 0.1ppm~0.5% H: 0.1ppm~0.5%
Carrier gas	Ar (\geq 99.9995%)	He (\geq 99.9995%)			N ₂ (\geq 99.9995%)	
Motive gas	N ₂ (\geq 99.9995%)					
Accuracy	O: 1ppm or RSD \leq 1%, N: 1ppm or RSD \leq 1%, H: 0.2ppm or RSD \leq 2%					
Sensitivity	0.01ppm					
Pulse furnace	current: 0~1500A, the maximum temperature can reach 3000°C					
Analysis time	3 minutes					
Sample weighing	recommended 1g, can be changed according to the sample content					
Work environment	18~29°C, \leq 80%RH					
Power supply	AC 220V, 50Hz/60Hz					
Dimensions (L×W×H)	700×1100×680mm					
Weight	180kg					

*Can be customized to extend the analysis range of oxygen: 0.1ppm~20%

**The analysis range can be expanded by changing the weight

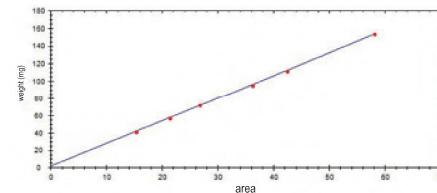
STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Analysis software	1 pc
Water circulate chiller	1 pc
Electronic analytical balance (8311-60)	1 pc
Standard sample (ELA-ONH35-BYST)	1 pc
Electrode brush (ELA-ONH35-BR)	1 pc
Copper brush (ELA-ONH35-CR)	1 pc
Single crucible (ELA-ONH35-DCB25)	100 pcs
Reusable crucible (ELA-ONH35-FCB14)	50 sets
Tin sheet (ELA-ONH35-TS100)	1 pc
Copper oxide (ELA-ONH35-CU50)	1 pc
Soda lime (ELA-ONH35-SL)	1 pc
Printer	1 pc
Voltage regulator	1 pc
Tool	1 set

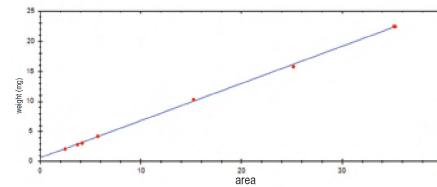
OPTIONAL DELIVERY

Quartz tube (Ø15mm×207mm)	ELA-ONH35-QT25
Nickel basket (200 pcs)	ELA-ONH35-NB200
Nickel foil (100g)	ELA-ONH35-NF100
Ultrasonic cleaner	ELA-ONH35-UC150

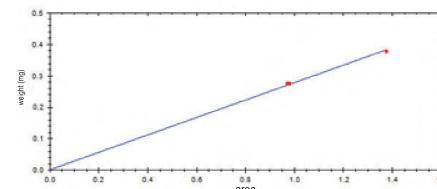
ANALYSIS CURVE



oxygen analysis curve



nitrogen analysis curve



hydrogen analysis curve

ANALYSIS SOFTWARE (INCLUDED)

The software interface includes the following sections:

- File, Edit, Calibration, Device, Transport, User, Database, Help**: Top navigation menu.
- Status: Working in offline mode**: System status indicator.
- Sample info**: Fields for Sample name(F3), Sample weight(g), Flux weight(g), Sample number, Balance(F4), Loader(F8), Start(F5), Stop(Esc).
- Analysis results**: Displays Oxygen (0.015753%) and Nitrogen (0.001988%) levels.
- Channel**: Selection for LO (Low Oxygen) and HO (High Oxygen) channels.
- Release curves**: A plot of U/V vs T/s showing a sharp peak at approximately 32 seconds.
- Base lines**: A plot of U/V vs time showing multiple baseline traces.
- User:adjustor Method: Default**: Bottom status bar.
- Vol(V): 0.0 Current(A): 0.0 Power(W): 0.0 Purification(°C): 0.0 Converter(°C): 0.0 Water(°C): 0.0**: Bottom status bar.