





The C 200 h auto package allows operating the C 200 with a completely automated water cycle. This results in ease of handling and saves valuable time especially for laboratories with a low number of analyses. The water circulates in a closed loop and is kept at a constant temperature by using a recirculating chiller. This leads to shorter preparation time for each experiment and even better reproducible results.

The scope of delivery includes: C 200 calorimeter measuring cell C 5012 halogen resistant, catalytic activated decomposition vessel

## www.ika.com



C 200.2 conversion kit for C 5012 C 248 oxygen filling station RC 2 basic circulating chiller C 200.RC hose set Consumables for calibration and installation

The semi-automated and conforming-to-standards combustion calorimeter determines the gross calorific value of liquid and solid samples. So far it has mainly been used for teaching and training purposes at technical schools and universities. Due to the automated water handling it is now also suitable for industrial laboratories with low number of analyses.

The catalytic activated, halogen resistant decomposition vessel C 5012 is specifically designed for the combustion of samples that contain halogens and sulfur ( > 3 % ). The material of the decomposition vessel (Hastelloy) prevents corrosion caused by samples with high chlorine content. The catalytic activated inner-surface leads to higher recovery rates in case analysis of halogens and/or sulfur is required after the combustion.

Four different operation modes enable the user to control the measuring times according to individual requirements: Isoperibol: approx: 17 min. Dynamic: approx. 8 min Manual: approx. 17 min (depends on the operator) Time controlled: 14 min

Measurements are possible according to e.g. DIN 51900, ISO 1928, ASTM D240, ASTM D4809, ASTM D5865, ASTM D1989, ASTM D5468, ASTM E711.

The software C 6040 CalWin controls the unit and monitors the measurement of the samples. Additionally, collected data can be exported to e.g. Excel, Word, SQL and LIMS for further analysis. It is possible to operate several calorimeters with one PC. A PC is not part of the scope of delivery and needs to be provided by the operator. CalWin is sold separately.



## **Technical Data**

Measuring mode dynamic 25°C     yes       Massuring time dynamic approx. [min]     8       Measuring time isoperibol approx. [min]     17       Reproducibility dynamic (1g benzoic acid NBS39) [%RSD]     0.1       Reproducibility dynamic (1g benzoic acid NBS39) [%RSD]     0.1       Coling medium permissible operating pressure [bar]     0.1       Cooling medium     1ap water       Type of cooling     flow       Coling medium permissible operating pressure [bar]     2       Cooling medium     flow       Rc. 1ow rate at 1°C [In]     60       Oxygen operating pressure max. [bar]     60       Interface PC     Rc32a2       Works according to DIN 51900     yes       Works according to DIN 51901     yes       Works according to DIN EN 150 18125     yes       Works according to DIN EN 15418     yes       Works according to DIN EN 15418     yes       Works according to DIN EN 15400     yes       Works according to DIN EN 15418     yes       Works according to DIN EN 15418     yes       Works according to DIN EN 154918     yes       Works according to ASTM D468	Measuring range max. [J]	40000
Measuring time dynamic approx. [min]     8       Measuring time isopenbol approx. [min]     17       Reproducibility dynamic (Ig benzoic acid NBS39) [%RSD]     0.1       Reproducibility isopenbol (1g benzoic acid NBS39) [%RSD]     0.1       Working temperature max. [°C]     25       Temperature measurement resolution [K]     0.0001       Cooling medium     1ap water       Type of cooling     flow       Chiller     RC 2 basic       Rec. flow rate at 18°C [/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface printer     Restaccoding to DIN S1000       Works according to DIN S1000     yes       Works according to DIN NISO 1716     yes       Works according to DIN NISO 18125     yes       Works according to DIN NISO 18126     yes       Works according to DIN NISO 18125     yes       Works according to DIN NISO 18126     yes       Works according to DIN NISO 18125     yes       Works according to DIN NISO 18126     yes       Works according to DIN NISO 18126     yes       Works according to DIN NISO 18126	Measuring mode dynamic 25°C	yes
Measuring time isoperibol approx. [min]     17       Reproducibility dynamic (1g benzoic acid NBS39) [%RSD]     0.1       Working temperature measurement resolution [K]     25       Cooling medium permissible operating pressure [bar]     2       Cooling medium permissible operating pressure [bar]     2       Cooling medium permissible operating pressure [bar]     2       Cooling medium permissible operating pressure [bar]     60       Oxygen operating pressure max. [bar]     40       Chiller     RC 2 basic       Rec. flow rate at 18°C [l/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface printer     Res. flow rate at 18°C [l/h]       Works according to DIN EN 150 4716     yes       Works according to DIN EN 15400     yes       Works according to DIN EN 15023     yes       Works according to DIN EN 15400     yes       Works according to DIN EN 15403<	Measuring mode isoperibol 25°C	yes
Reproducibility dynamic (1g benzoic acid NBS39) [%RSD]     0.1       Reproducibility isoperibol (1g benzoic acid NBS39) [%RSD]     0.1       Working temperature mass. [°C]     25       Temperature measurement resolution [K]     0.0001       Cooling medium permissible operating pressure [bar]     2       Cooling medium     Tap water       Type of cooling     flow       Rec. flow rate at 18°C [I/h]     60       Oxygen operating pressure max. [bar]     40       Interface PC     Rc2 basic       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN 15400     yes       Works according to DIN EN 15400     yes       Works according to DIN EN 15400     yes       Works according to DIN CEN TS 14918     yes       Works according to DIN CEN TS 14948     yes       Works according to ND NEN 5400     yes       Works according to ASTM D240     yes       Works according to ASTM D400     yes       Works according to ASTM D5468     yes       Works according to ASTM D400     yes       Works according to ASTM D54	Measuring time dynamic approx. [min]	8
Reproducibility isoperibol (1g benzoic acid NBS39) [%RSD]     0.1       Working temperature max. [°C]     25       Temperature measurement resolution [K]     0.0001       Cooling medium permissible operating pressure [bar]     2       Cooling medium     tap water       Type of cooling     flow       Chiller     RC 2 basic       Rec. flow rate at 18°C [I/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface printer     Res.322       Decomposition vessel C 5012     yes       Works according to DIN ENISO 1716     yes       Works according to DIN ENISO 18125     yes       Works according to DIN ENISO 1824     yes       Works according to DIN ENISO 1825     yes       Works according to ASTM D480     yes       Works according to ASTM D480     yes       Works according to ASTM D488     yes       Works according to ASTM D488     yes  <	Measuring time isoperibol approx. [min]	17
Working temperature max. [°C]25Temperature measurement resolution [K]0.0001Cooling mediumtap waterType of coolingflowChillerRC 2 basicRec. flow rate at 18°C [/h]60Oxygen operating pressure max. [bar]40Interface PCResc. flow rate at 18°C [/h]Decomposition vessel C 5012yesWorks according to DIN 51900yesWorks according to DIN F1SO 1716yesWorks according to DIN F1SO 18125yesWorks according to DIN EN ISO 18125yesWorks according to DIN ENTS 1500yesWorks according to DIN ENTS 1500yesWorks according to DIN ENTS 1603yesWorks according to DIN ENTS 1603yesWorks according to DIN ENTS 1603yesWorks according to ASTM D400yesWorks according to ASTM D468yesWorks according to ASTM D5468yesWorks according to ASTM D5468yesWorks according to GOST Certified21Dimensions (W x H x D) [rm]21Permissible ambient temperature [°C]80Protection class according to IDN EN 60529100 - 240Pretered class according to IDN EN 60529100 - 240Prequency [Hz]5060	Reproducibility dynamic (1g benzoic acid NBS39i) [%RSD]	0.1
Temperature measurement resolution [k]     0.0001       Cooling medium permissible operating pressure [bar]     2       Cooling medium     tap water       Type of cooling     flow       Chiller     RC 2 basic       Rec. flow rate at 18°C [l/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface printer     Centronix       Interface printer     yes       Works according to DIN F1900     yes       Works according to IN IN ISO 1716     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN TS 14918     yes       Works according to DIN EN TS 16023     yes       Works according to ASTM D4809     yes       Works according to ASTM D4809     yes       Works according to SO ST Certified     yes       Dimensions (W x H x D) [mm]     yes       Works according to ASTM D4865     yes       Works according to SO ST Certified     yes       Dimensions (W x H x D) [mm]     20 - 25       Permissible r	Reproducibility isoperibol (1g benzoic acid NBS39i) [%RSD]	0.1
Cooling medium permissible operating pressure [bar]2Cooling mediumtap waterType of coolingflowChillerRC 2 basicRec. flow rate at 18°C [/h]60Oxygen operating pressure max. [bar]40Interface protection ressel C 5012yesWorks according to DIN 51900yesWorks according to DIN EN ISO 1716yesWorks according to DIN EN 150 1716yesWorks according to DIN EN 15000yesWorks according to DIN EN 15000yesWorks according to DIN EN 15000yesWorks according to DIN EN 15023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D240yesWorks according to ASTM D5468yesWorks according to ASTM D5468yesWorks according to SO 1928yesWorks according to SO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [rm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20Permissible according to DIN EN 60529iP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Working temperature max. [°C]	25
Cooling mediumtap waterType of coolingflowChillerRC 2 basicRec. flow rate at 18°C [l/h]60Oxygen operating pressure max. [bar]40Interface printerCentronixInterface PCRS232Decomposition vessel C 5012yesWorks according to DIN EN ISO 1716yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN ISO 18125yesWorks according to DIN CEN TS 14018yesWorks according to DIN CEN TS 16023yesWorks according to DIN CEN TS 16023yesWorks according to ASTM D4809yesWorks according to ASTM D4809yesWorks according to ASTM D4809yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [*C]20 - 25Permissible ambient temperature [*C]yesProtection class according to DIN EN 60529iP 20RS 232 interfaceyesVoltage [Y]100 - 240Frequency [Hz]50/60	Temperature measurement resolution [K]	0.0001
Type of cooling     flow       Chiller     RC 2 basic       Rec. flow rate at 18°C [l/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface PC     R5232       Decomposition vessel C 5012     yes       Works according to DIN 51900     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN ST 14918     yes       Works according to DIN SPEC 19524     yes       Works according to DIN SPEC 19524     yes       Works according to ASTM D240     yes       Works according to STM D5468     yes       Works according to ASTM D5468     yes       Works according to STM D5468     yes       Works according to GOST Certified     yes       Dimensions (W x H x D) [rm]     400 x 400 x 400       Works according to GOST Certified     yes       Dimensions (W x H x D) [rm]     60       Permissible relative h	Cooling medium permissible operating pressure [bar]	2
Chiller     RC 2 basic       Rec. flow rate at 18°C [J/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface PC     RS232       Decomposition vessel C 5012     yes       Works according to DIN 51900     yes       Works according to DIN S100 DIN EN ISO 1716     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN CEN TS 14918     yes       Works according to DIN CENTS 16023     yes       Works according to DIN SPEC 19524     yes       Works according to ASTM D240     yes       Works according to ASTM D409     yes       Works according to ASTM D5488     yes       Works according to ISO 1928     yes       Works according to ASTM D5468     yes       Permissible ambient temperature [°C]     20       Dimensions (W x H x D) [mm]     400 x 400 x 400       Weiş     80       Protoction class according to DIN EN	Cooling medium	tap water
Rec. flow rate at 18°C [l/h]     60       Oxygen operating pressure max. [bar]     40       Interface printer     Centronix       Interface PC     R5232       Decomposition vessel C 5012     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN CEN TS 14918     yes       Works according to DIN CENTS 16023     yes       Works according to ASTM D240     yes       Works according to ASTM D4809     yes       Works according to ASTM D5468     yes       Works according to SOT Certified     yes       Works according to SOT Certified     yes       Dimensions (W x H x D) [mm]     400 x 400       Weish according to DIN EN 60529     21       Permissible relative humidity [%]     80       Protection class according to DIN EN 60529     IP 20       RS 232 interface     yes       Voltage [V]     100 - 240 <td< td=""><td>Type of cooling</td><td>flow</td></td<>	Type of cooling	flow
Oxygen operating pressure max.     [bar]     40       Interface printer     Centronix       Interface PC     RS232       Decomposition vessel C 5012     yes       Works according to DIN 51900     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 1716     yes       Works according to DIN EN ISO 18125     yes       Works according to DIN EN 15400     yes       Works according to DIN CEN TS 14918     yes       Works according to DIN CENTS 16023     yes       Works according to DIN SPEC 19524     yes       Works according to ASTM D240     yes       Works according to ASTM D5488     yes       Works according to ASTM D5488     yes       Works according to ASTM D5488     yes       Works according to ISO 1928     yes       Works according to ISO 1928     yes       Permissible ambient temperature [°C]     20 - 25       Permissible ambient temperature [°C]     20 - 25       Permissible relative humidity [%]     100 - 240       Protection class according to DIN EN 60529     yes       Yoltage [V]     100 - 24	Chiller	RC 2 basic
Interface printerCentronixInterface profRS232Decomposition vessel C 5012yesWorks according to DIN S1900yesWorks according to DIN EN ISO 1716yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN 15400yesWorks according to DIN CEN TS 14918yesWorks according to DIN SPEC 19524yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D5468yesWorks according to STM D5468yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Rec. flow rate at 18°C [l/h]	60
Interface PCRS232Decomposition vessel C 5012yesWorks according to DIN 51900yesWorks according to DIN EN ISO 1716yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN 150 08125yesWorks according to DIN CEN TS 14918yesWorks according to DIN CENTS 16023yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W X H x D) [mm]400 x 400 x 400Weight [kg]21Permissible relative humidity [%]1P 20Protection class according to DIN EN 60529yesVoltage [V]100 - 240Frequency [Hz]50/60	Oxygen operating pressure max. [bar]	40
Decomposition vessel C 5012yesWorks according to DIN 51900yesWorks according to DIN EN ISO 1716yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN 15400yesWorks according to DIN EN 15400yesWorks according to DIN CEN/TS 16023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to SOB CertifiedyesWorks according to SOB CertifiedyesWorks according to SOB CertifiedyesWorks according to DIN SPEC 19524yesWorks according to ASTM D4809yesWorks according to ASTM D4809yesWorks according to ASTM D4809yesWorks according to SOB CertifiedyesWorks according to SOB CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [M]100 - 240Frequency [Hz]50/60	Interface printer	Centronix
Works according to DIN 51900yesWorks according to DIN EN ISO 1716yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN 15400yesWorks according to DIN CEN TS 14918yesWorks according to DIN CEN TS 14918yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to SASTM D5468yesWorks according to SOP 2028yesWorks according to SOP 2028yesWorks according to GOST CertifiedyesWeight [kg]21Permissible ambient temperature [°C]20 · 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20Voltage [M]100 · 2400Frequency [Hz]50/60	Interface PC	RS232
Works according to DIN EN ISO 1716yesWorks according to DIN EN ISO 18125yesWorks according to DIN EN 15400yesWorks according to DIN CEN TS 14918yesWorks according to DIN CENTS 16023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to GOST CertifiedyesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible anbient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [M]100 - 240Frequency [Hz]50/60	Decomposition vessel C 5012	yes
Works according to DIN EN ISO 18125yesWorks according to DIN CEN TS 14918yesWorks according to DIN CEN TS 14918yesWorks according to DIN CEN/TS 16023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to STM D5468yesWorks according to GOST CertifiedyesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible anbient temperature [°C]20 · 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 · 240Frequency [Hz]50/60	Works according to DIN 51900	yes
Works according to DIN EN 15400yesWorks according to DIN CEN TS 14918yesWorks according to DIN CEN/TS 16023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to DIN EN ISO 1716	yes
Works according to DIN CEN TS 14918yesWorks according to DIN CEN/TS 16023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ASTM D5865yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to DIN EN ISO 18125	yes
Works according to DIN CEN/TS 16023yesWorks according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ASTM D5865yesWorks according to GOST CertifiedyesWorks according to GOST CertifiedyesWight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to DIN EN 15400	yes
Works according to DIN SPEC 19524yesWorks according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ASTM D5865yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to DIN CEN TS 14918	yes
Works according to ASTM D240yesWorks according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ASTM D5865yesWorks according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to DIN CEN/TS 16023	yes
Works according to ASTM D4809yesWorks according to ASTM D5468yesWorks according to ASTM D5865yesWorks according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 · 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 · 240Frequency [Hz]50/60	Works according to DIN SPEC 19524	yes
Works according to ASTM D5468yesWorks according to ASTM D5865yesWorks according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to ASTM D240	yes
Works according to ASTM D5865yesWorks according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to ASTM D4809	yes
Works according to ISO 1928yesWorks according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to ASTM D5468	yes
Works according to GOST CertifiedyesDimensions (W x H x D) [mm]400 x 400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to ASTM D5865	yes
Dimensions (W x H x D) [mm]400 x 400Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60		yes
Weight [kg]21Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Works according to GOST Certified	yes
Permissible ambient temperature [°C]20 - 25Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Dimensions (W x H x D) [mm]	400 x 400 x 400
Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Weight [kg]	21
Protection class according to DIN EN 60529IP 20RS 232 interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60	Permissible ambient temperature [°C]	20 - 25
RS 232 interface     yes       Voltage [V]     100 - 240       Frequency [Hz]     50/60		80
Voltage [V]     100 - 240       Frequency [Hz]     50/60	Protection class according to DIN EN 60529	IP 20
Frequency [Hz] 50/60	RS 232 interface	yes
	Voltage [V]	100 - 240
Power input [W] 120	Frequency [Hz]	50/60
	Power input [W]	120