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**Size:** 2830 KB

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### Book Descriptions:

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## Book Descriptions:

# buderus gb142-30 service manual

Refer to this manual. BBpage 3421Check th Page 38 and 39 7Diagnosispage 3647Check that the c Page 40 and 41 7DiagnosisRepl.Thank you, for helping us keep this platform clean. The editors will have a look at it as soon as possible. We have 6 Buderus Logamax plus GB14230 manuals available for free PDF download Servicing Instructions, Installation And Servicing Instructions, Installation Manual, Installation Instructions Manual, Instruction. Buderus GB142 Wall Hung Heaters. Table of ContentsPrepiped Manifold and Pump Settings. Pump Sizing for Buderus Indirect Tanks. BC10 Controller. RC10 Room Controller. Space Heating Options. DHW Heating OperationDimensions and Connections. Space Heating. Domestic Hot Water HeatingVertical Venting. Condensate PipingGB142 with DHW zone and indoor reset. GB142 with DHW zone, Comfort Zone and zone valves. GB142 with DHW zone, Indoor reset, Buderus Pumping StationGB142 with DHW zone, single temperature of radiant. No Mixing. Valve required. GB142 with DHW zone, motorize mixing valve zone, thermostaticGB142 with DHW zones, constant circulation with Comfort zoneGB142 with DHW zone and the Buderus Quick Fit Modular. Piping systemsApplications are shown with both piping and corresponding electrical schematics. AuxiliaryIn an effort to simplify piping and electrical diagrams, only Diagrams 1P and 1E depict theThis part is leftBasic information regarding vent installation, clearances, condensate piping and terminationAlthough this manual covers many common applications for our equipment, system possibilitiesShould you encounter an application that is not covered in this manual orPage 1Shutoffs, relief valve,Grundfos UPS1558 3speed heater pump are included on the return side of the manifold. ReferTable 1 show T values for different speed settings on the UPS1558 pump for each GB142Heater Model. Speed

1. <http://xn--76-6kca8aqc6c.xn--p1ai/pic/userfile/duodiagnost-manual.xml>

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Speed 2Complete burner shutdown willPiping connections for an indirect tank chargingRefer to Tables 2 and 3 for tank pumpAll piping to and from the indirect needsGrundfosTables 4 and 5 show pump recommendations for 2 and 3 tank systems operating off a single. GB142 heater. Tank pumps are placed in parallel with each tank having its own pump. The. GB142 DHW sensor is placed in one tank; a high limit aquastat is to be installed in other tanksDomestic water must be drawnTable 4 Two Tank Systems. Grundfos. Taco. TankTaco. TacoTaco. TacoPS and PZ combined. Page 3. The low voltage side is equipped with the following terminalsA detailed description of all diagnostic and status codes is providedThe RC10 must be installed in a reference location forThe RC10 will control the modulation and heater waterThe RC10 is typically placedGive carefulThe use of the RC10 indoor room controller is shown in a number of diagrams to achieveSuggested timings of the post purge for theNote Never connect a RC10 control and a thermostat or end switch at the same time.Use only TT connections or RC terminals, but do NOT use both atOnce the call for heat is satisfied, the PK pump continues to operateThe PK pump canPK pump, firing the boiler to maximum temperature and operating the PS pump. Internal logicPage 4CPVC pipe in compliance with ANSI, ASTM D1785 schedule 40 PVC, F441 or D2665 PVCDWV. Cement and primer must comply with ASTM D2564. For Canada, use CSA or ULCFoam core PVC pipe can not be used. Z223.1 USA installations CSA B149.1

or B149.2 Canadian installations. Note Installing contractor must install condensate tee supplied by Buderus immediately after Condensate must be drained into a condensate pump or The GB142 is approved for both Direct Vent sealed combustion see FIG. 3A for termination For room air applications, All PVC venting material is Table 6 Maximum Equivalent Vent Lengths. Model. Max Eq. Intake Length ft Fittings or Piping. Equivalent Length ft Fig. 3A Fig 3B. <http://domarcas.com/img/userfiles/duoglider-manual.xml>

Page 7 Failure to comply Gases will form a white plume in winter. Plume could obstruct window view. Condensate could freeze and block vent pipe. Page 8 Page 9. Page 10 Page 11 Size the vent pipe hole as close as Fig. 8 Page 12. Minimum of Exhaust vent termination edge shall Exhaust vent terminations Fig. 9A Minimum. Page 13 Exhaust vent vertical Condensate could freeze and block vent pipe. Page 14 Exhaust vent termination edge Page 15 Page 16 Baseboard. Buderus. Hydronic Systems. GB 142, with DHW zone Purge stations required. Written by JHK. DHW recirc. Line. Approved by EFS. DHW Out. Condensate. Drain Purge Station. Control Panel. Gas. Connection Indirect Purge Station. Purge Station. Water Feed. DHW In. Note This drawing is conceptual in nature and does not purport to address all design, installation or safety considerations. This diagram is for reference It is expected that installers have adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved. Drawing is not to scale. Page 18. Low Voltage. Outdoor Safety. Limit. Orange. Blue. Lt Green. Lt Gray. Red Power Input Dedicated Circuit Installed. Jumper. Netural Sensor. Boiler loop Recirc Circulator No connection required when using Room Sensor. Field installed. GB 142, with DHW Field wiring 120Vac. Written by JHK. Page 19. Baseboard. Supply Return. Drain. Connection Purge Station. Indirect Note This drawing is conceptual in nature and does not purport to address all design, installation or safety considerations. Page 20. Red Low Voltage Circuit. White. Power Input Installed. DHW Tank. Sensor Netural Do not use if using T T connection. Recommended Post Purge setting 5 minutes. GB 142, with DHW Field wiring 120 Vac. Page 21. GB 142, with DHW zone. Comfort Zone and zone Purge stations required. Logamax Plus Condensate. Drain Gas. Connection. Comfort. Zone. Return from. Heating zones Valves Control Panel. Gauge Purge Station.

Purge Station This diagram is for reference It is expected that installers have adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved. Page 22. Comfort Zone Control. Red Power Input Installed. Jumper Sensor. Room Sensor Boiler loop Service Dedicated Circuit. Heating loop Optional DHW Recirc circulator Dedicated 15 Amp. Circuit Recommended Post Purge setting 5 minutes. Neutral. Zone valves. No end switch connection needed. GB 142, with DHW zone, Comfort. Zone Control and zone valves. Field wiring 120Vac. Page 23. GB 142, with DHW, Indoor. Buderus Pumping Station Radiation. Purge stations required. Written by JHK Condensate. DHW return. Connection Pump. Station Purge Station. Page 24. Red Low Voltage Power Input Dedicated Circuit Installed. Netural Sensor Heating loop Recommended Post Purge setting 5 minutes Dedicated Circuit. No end switch connection needed Low Voltage. GB 142, with DHW zone, Indoor. Pumping Station and zone valves. Page 25. Hydronic Systems GB 142, with DHW zone single GB142 should be set to maximum Purge stations required. Logamax Plus Control Panel. DHW Return. DHW Supply. Strap on Approved by EFS Purge Station. Air Scoop This diagram is for reference It is expected that installers have adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved. Page 26. Red Low Voltage Power Input Dedicated Circuit DHW Tank. Sensor High Limit Strap on Buderus. Field wiring 120 Vac. GB 142, with DHW zone, single GB142 should be set to Written by JHK. Page 27. Baseboard GB 142, with DHW zone, Purge stations required. DHW Return Connection Gauge Purge Station. Page 28. Jumper Netural DHW Tank. Sensor Zone 1 Zone 2. Zone 2 Zone 3. Zone 3 Circuit Neutral. Recommended Post Purge setting 5 minutes Field installed. GB 142, with DHW zone, Field wiring 120 Vac. Page 29. GB 142, with DHW zone Baseboard. DHW Supply Purge Station. Page 30. Netural DHW Tank. Sensor Zone 1 Zone 1. Page 31. GB 142 with DHW zone, constant Control.

Buderus Panel Radiators Thermostatic heads on each Panel. Radiator for individual control. Pressure bypass valve Purge stations required. DHW Supply Purge Station Note This drawing is conceptual in nature and does not purport to address all design, installation or safety considerations. Page 32. Red Power Input Dedicated Circuit Comfort Zone Control. Factory. Installed. Netural Sensor Optional DHW. Recirc Circulator Room Sensor. Recommended Post Purge setting 5 minutes. GB 142, with DHW zone, constant Control. Field wiring 120Vac. Pressure bypass valve Written by JHK. Page 33. GB 142 with DHW zone and Modular Piping System. Purge stations required. Logamax Plus Mixing Station. Mixing Station Drain. Control Panel Pump. Station DHW return. DHW supply Purge Station. Purge Station Note This drawing is conceptual in nature and does not purport to address all design, installation or safety considerations. Page 34. Zone 1. GB 142, with DHW zone Modular Piping System. Page 35. Buderus Hydronic Systems Londonderry, NH 03053 Buderus Hydronic Systems, reserves the right to make changes without notice. Condensing gas boiler Refer to this manual. For Warning If the information in these instructions is Notice. This manual must be retained for future reference. Logamax plus. For installers. Please read thoroughly Preface. About these instructions. These Servicing Instructions contain important information to These Servicing Instructions are intended for specialist installers, who have the necessary training and experience for working Subject to technical changes! Slight changes may be made to the illustrations, process steps Updating of documentation. Please contact us if you have any suggestions for improvements Designated use. Hazard definitions. The following instructions must be observed. Observe these instructions for heating Tools, materials and additional equipment. Inspection. Disposal. Abbreviations. Regulations and guidelines Checking the hotwater temperature sensor.

Checking the hot surface ignitor; control. Checking the hot surface ignitor; resistance. Checking the hot surface ignitor; supply cord. Testing the ionization current. Checking the ionization electrode; cable. Checking the ionization electrode; Checking the gas control valve; Checking the gas control valve; Ohming out the gas control valve. Replacing the gas control valve. Checking the control unit; connections Bleed the gas supply pipe. Measuring the inlet gas pressure Measuring the carbon monoxide content CO. Transformer; replacing. Automatic air purging system; replacing. Burner; replacing. Sight glass; replacing. Condensate trap; replacing. Pressure sensor; replacing. Heat exchanger; replacing. UBA 3; replacing General. Menu structure of the BC10 basic controller Display codes on the display of the BC10 LED on the UBA 3 Faults with a fault code Checking the UBA 3 fuse; replace if necessary. External connection board fuse. Checking the fan unit; 120 VAC control. Checking the fan unit; supply cord 120V AC. Checking the fan unit; tacho cable. Replacing the fan unit Safety and general instructions. Please observe these instructions in the interest of your own Only use the boiler in the combinations and with the accessories and spares listed. Other combinations, accessories and consumables must Maintenance and repairs must only be carried out by authorized professionals. You must report the installation of a condensing gas boiler to You are only allowed to operate the condensing gas boiler. Please note that local permission for the flue system and the You must also observe Indicates the presence of hazards that can The boiler must be located in an area where leakage of the The boiler must be installed such that the gas ignition system The boiler must not be installed on carpeting. Do not restrict or seal any air intake or outlet openings. If you find any defects, you must inform the owner of the system of the defect and the associated hazard in writing.

The following defined terms are used throughout the documentation to bring attention to the presence of hazards of various risk Indicates presence of hazards due to electric Designated use. The boiler was designed for heating water for a space heating The boiler is delivered with a BC10 basic controller and the. The boiler can be fitted with a modulating outdoor reset control Beware if you smell gas there may be an Warning If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, We advise you to offer your customer an annual inspection and If inspection reveals that maintenance Installation What to do if you smell

gas Carry out a maintenance overhaul if necessary. Immediately repair defects to avoid Periodically examine the venting systems and cleaning of the Also periodically inspect the low water cutoffs, including And periodically inspect the burner flames see page 8, fig. 1, Check the neutralization unit if present. Check to see if there are no obstructions to the flow combustion and ventilation air. For direct vent boilers, proper reassembly and resealing of Observe these instructions for heating Thoroughly flush the system prior to filling. Only use untreated main water to fill and top off the system. Do not use salt bedding exchangers to soften the water. Do not use inhibitors or other additives! No Toxic chemicals such as used for boiler treatment, shall When using oxygen permeable pipes, e. g. for floor heating Unsuitable heating system water promotes the formation This may damage the heat exchanger or affect its operation. Installation and service must be performed by a Cleaning the heat exchanger, the burner and the condensate Checking the ionization signal par. 8.1.15, page 95 Dispose of the boiler packaging in an environmentally sound Dispose of components of the heating system Keep boiler area clear and free from combustible materials, Tools, materials and additional equipment.

For the installation and maintenance of the boiler you will need In addition, a hand truck with a fastening belt is very useful. Abbreviations RT or RC System fault code. Air Vent. Operating code. Control panel on the boiler. Boulter Buderus cylinder thermostat. Boulter Buderus diverter valve. Blocking boiler fault code. Connection Block. Central Heating. Central Heating Supply. Central Heating Return. Cascade module. Cylinder Thermostat. Condensate water drainage outlet. Domestic Hot Water. Diverter Valve. Earth. External control module. Energy management system. Outdoor sensor. Central Heating line. Boiler identification module. Live Line. Light Emitting Diode. Lock Shield Valve. Mains Cold Water. Controller for HK2, second Central Heating line module. Neutral. Ground. Permanent hot line. Programmer. Room Thermostat. Service code. Timer. Thermostatic Radiator Valve. Other display codes. Universal automatic burner control unit 3. Locking boiler fault code. Wiring Centre. Controller for HK1, first Central Heating line. Two Port Zone Valve. Regulations and guidelines The installation must conform to the requirements of the authority Where required by the authority having jurisdiction, the installation must conform to the Standard for Controls and Safety. Install CO detectors per local regulations. The boiler requires Operating Limits of the boiler. Max. boiler temperature. Max. operating pressure The hot water distribution system must comply with all When replacing an existing Massachusetts Installations Only Installation shall be in strict compliance with the A copy of the installation For direct vent boilers, mechanical vent heating boilers or NFPA 720 2005 Edition Recognized Testing Lab Installation shall be in strict compliance with the A copy of the installation. Sighting glass. Heat exchanger. Back cover. Air intake for the fan. Fan. Condensate trap. External Connection Board under the cover. Pressure sensor Drawer with control unit. Universal Burner Automat UBA 3. Control unit BC10.

Gas valve. Cover. Flue measuring points. Parallel flue. Burner DHW temperature knob 1.