brivis mps installation manual

File Name: brivis mps installation manual.pdf
Size: 2606 KB
Type: PDF, ePub, eBook
Category: Book
Uploaded: 16 May 2019, 16:29 PM
Rating: 4.6/5 from 807 votes.

Status: AVAILABLE

Last checked: 2 Minutes ago!

In order to read or download brivis mps installation manual ebook, you need to create a FREE account.

Download Now!

eBook includes PDF, ePub and Kindle version

Book Descriptions:

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with brivis mps installation manual . To get started finding brivis mps installation manual , you are right to find our website which has a comprehensive collection of manuals listed.
Our library is the biggest of these that have literally hundreds of thousands of different products represented.

Book Descriptions:

brivis mps installation manual

Advanced Gday Sign in to bid or buy eBay Deals Coles on eBay Help Sell Watch List Expand Watch list Loading. Something went wrong. Are you ready to install a new heating or air conditioning in your home. Brivis has a wide range of different air conditioners, heaters and central heating systems of amazing qualities and you can find them new and preloved on eBay today. Do you want to be as comfortable as possible in your home. Have you had enough of sleepless nights due to high temperatures, or are you having a hard time leaving your bed on a cold winter morning. Do you want to invest in a cooling or heating system that will last in your home for many years. Brivis the creator of highquality air conditioners and Central heating systems never ceases to amaze. The products are reliable with great functionality, to an affordable price on eBay. Design, innovations and manufacturing excellence has kept Brivis at the forefront of the heating and cooling industry. Brivis has the capability, experience, network and systems to guarantee the performance of their products. The Brivis heaters and cooler are known to be the most costeffective ways to heat or cool your customers homes. They also have the largest installed base of gas ducted heaters in the Australian market, which makes them a supplier you really can rely on. Finding the right air conditioners can be a mission. The good news is that eBay is here to help. Check out the many options of home appliances from Brivis, simply use the categories to narrow it down to what you are looking for. You are able to find your preferred item quick and easy with the filter options such as type, colour, power source and price range. Find your new or preloved Brivis heating or cooling system on eBay in no time! User Agreement, Privacy, Cookies and AdChoice Norton Secured powered by Verisign.http://odlesales.com/base/ferrari-308-owners-manual.xml

- **brivis mps installation manual, brivis mps service manual, brivis mps he30 installation manual.**

Service Manual 6 Networker Approved Issue 5 Printed 13Feb14 115107 AM 1 Service Manual 6 Networker Approved Issue 5 Printed 13Feb14 115107 AM 2 Contents Page No. The most likely reason for this occurring is the voltage to the Networker exceeds the maximum threshold. The normal Networker power operating range is 10 18 Volts DC. Check the voltage using a Multimeter, and if the voltage exceeds these limits, refer to the following, otherwise replace the Networker. If Voltage exceeding 18 VDC check Check the 24 Volt transformer output doesnt exceed 30 VAC. Check the 240 Volt power supply doesnt exceed 260 Volts. Care should be taken when accessing the Networker installer and service parameters, to check all the service and installer settings are correct on completion. Where possible check the installer parameters before entering the Networker installer or service access mode. The following products should have these corresponding service parameters checked on the completion of any Networker installer or service mode access. Some owners may also check the accuracy of the Networker for various reasons, but not always with a thermometer that is accurately calibrated, and therefore register a different temperature. Its important to check the Networker with a calibrated thermometer digitherm. The Networker, like any other temperature registering control, may be effected by surrounding conditions and structures, and you should use your discretion as to whether to adjust the control. If the Networker requires adjustment, then the service parameter number 48 should be accessed to offset the temperature displayed on the screen. The default setting for the Networker service parameter 48 is 09 which is 0.50C. Offset originally 07 with no dust cover. Originally the NE1 design was of a unique type used for error reporting to the Networker.http://martinsnegocios.com.br/zeturin/www/admin/mod_galeria_eventos/arquivos/ferrari-

308-parts-manual.xml

When the NE2 was designed for Contour, it had both the new and old system, but defaulted to NE1 style for communication consistency to the Networker. The new NE1 control introduced in October 1998, required a link configuration to be compatible with older Networkers. Cases where the components are not compatible result in the Networker reading normal operation signals as errors or the unit not operating. i.e. error 00 00 E1 or no PreWet indication. The following table should be used to configure the various component versions compatible. It is also preferable to turn the power supply OFF, and reset the Cooler electronic controller after making any service parameter change. VERITAS Cluster Server.47 Preparing to install NetWorker on VERITAS cluster Documents Networker emc Documents Document Brivis Service Brivis Service Manual Evaporative Cooler. In auto The Networker can also be used to operate a cooler during warmer weather. Note The The Manual Controller allows you to turn on the pump or fan or both and gives you control of the fan speed. The Manual Controller does not have any auto The Brivis ducted inverter air conditioning controller, download the user manual below.The Brivis Manual Controller allows. Congratulations on your purchase of a Brivis Cooling system. For you to The Brivis cooler is covered by the product warranty as outlined in this manual. The Programmable Controller can operate in either auto or manual modes.Reload to refresh your session. Reload to refresh your session. The Brivis Profiler cooler was introduced to offer a budget model Contour to meet market demand. However, the AD76 and AD86 will remain in production.These parameters are located in the cooler service parameter section, and can only be accessed by using a Networker. This action should only be performed on 1 or 2 series Contour coolers if they exhibit the above symptoms. The installation of a modified water sensor should be carried according to the installation instructions.

Networker If the Cooler is integrated with a Brivis MPS or Auto EMS heaters, then simply connect the wiring in parallel with the heaters circuit to the Networker. Flush Time The time the solenoid is open during a flush service operation.The Cooler then remains idle until the Networker is turned ON again, and calls for cooling.The NE5 will communicate with the Networker about the status of the Coolers operation, including malfunction errors. The NE5 can be fitted to any 3 series Contour and Profiler Cooler models, but will require configuring to the model type, using the service parameters accessed through the Networker. The NE5 controller will maintain a minimum voltage on the output to the water inlet solenoid in the OFF cycle.If the condition rectifies itself, and the speed sensor signal is restored, then the Cooler will resume normal fan operation.Allow for the 4 minute delay period to register the error on the Networker, before the DC brake is disabled.The water inlet solenoid has a flexible hose attached with a filter inserted in the hose connections at each end. The ServoSeal is a set of adjustable louvers constructed in the Contours base, which are driven closed and prevent heat loss from the building, when the unit is not in use. After the initial filling, at which point the water inlet solenoid turns OFF, the Cooler looses tank water volume due to evaporation, in the normal course of the units operation. However, if the condition is still present after reset, the unit will lockout again.To rectify this condition, refer to Service Checks on page 73.To rectify this condition, refer to Service Checks section.To rectify this condition, refer to Service Checks on page 73.Service work performed without access cannot be responsible for the system operation, only the Coolers function. Check the minimum and maximum RPM setting are appropriate for the duct installation.Check the Coolers Pre Wet function is operating correctly.

Check the unit operates in both Manual and Auto modes.Refill the tank with clean water, operate the pump for 5 minutes to rinse the pads and drain again to complete.Separate the roof outer and the inner distribution tray. Clean the components and reassemble. It is intended for Service personnel who have received adequate training on Brivis Gas Fired Ducted Central Heaters, in particular Brivis MPS series heaters. Universal meaning suitable for any composition of propane and butane LPG. The supply air temperature air leaving the heater is monitored via a thermistor located in the

duct near the heater outlet, and is continuously monitored by the control. The desired temperature can be set within a suitable range during commissioning. The turndown ability of the heater gas rate allows for a significant variation in the amount of open outlets in the house. The combustion fan operates at a fixed speed. 5 6 StarPro MX External Heater StarPro HX External Heater 6 7 1.2 Operation Overview Continued During ignition, the gas rate is between an intermediate level and full gas rate, and maintains this rate during the flame confirmation period. After flame confirmation, the gas rate rises to the maximum allowable level, known as the nominal gas consumption NGC. Once the heater approaches the set supply air temperature, the control modulates the gas rate to maintain the set supply air temperature. The airflow rate is controlled via speed monitoring of the main fan. The room fan can be controlled to any necessary speed. During warm up and cool down, the room fan ramps up and down in speed respectively. During steady state operation the room fan speed runs at the set speed, which is set during commissioning. Feedback is gained via a tachometer known as the speed sensor located on the main fan motor. When adaptive zoning is part of the system and zones are opened or closed by the user, the fan speed adjusts to suit the required airflow rate.

To ensure for adequate air for combustion, a vacuum pressure switch measures the vacuum pressure prior to the combustion fan. On HX models a second pressure switch ensures that condensate is freely draining from the heater, and no blockage in the condensate line has occurred. The following provides an overview of the StarPro heater s NG2 control and main components and how they function. 1.3 NG2 Control Operation The NG2 controller has an LCD display and 3 buttons to access information and change parameters. UP SET DOWN The controller has two menus that limit access to relevant personnel. These being the Installer menu and Service Menu. 7 8 1.4 Installer Menu The Installer menu provides information and has parameters that can be controlled by the installer. The installer menu is present as soon as the heater is powered up and initialised. The selection list can be scrolled through by using the SET button. The parameters can be changed by using the UP and DOWN buttons. The following table contains all parameters accessible in the Installers menu. Installer Menu Settings No. Display Appearance Description 1 2 HEATER MAXIMUM FAN SPEED SETTING The number displayed is the fan s default fan speed setting i.e. the RPM the fan is set to run at for normal heating operation. It can be adjusted between a maximum of 1500 and a minimum of 500, and should be set to meet the installation s airflow requirements. It is recommended to use a fan speed between 1000 to 1500, as lower speeds are more likely to result in overheat conditions if the system has not been balanced correctly. COOLING MAXIMUM FAN SPEED SETTING This displays the RPM the fan is set to run at for normal refrigerative cooling. It can be adjusted between a maximum of 1500 and a minimum of ZONING MINIMUM FAN SPEED SETTING This is the minimum RPM the fan will operate to with the maximum outlets closed due to the Networker zoning in heating mode.

The default is 950, but it can be adjusted between 500 and is the recommended minimum setting. HEATER IDENTIFICATION NUMBER Do not alter unless multiple heaters are installed This parameter is used to identify each heater in priority order when more than one heater is connected on the system. SUPPLY AIR THERMISTOR SET POINT TEMPERATURE This displays the temperature the heater s gas valve will modulate to maintain. Note All settings are saved automatically as you leave the set up mode. This can be achieved by entering a coded key sequence into the NG2 control. The Service menu has three modes Information, Error Log and Service Parameter. Each of these is explained below. To move through the different service modes, press the SET button. Use the UP and DOWN buttons to move through the selection list for each mode. Information Mode The information shown in this mode are the actual details from the sensors and components as they are operating, as distinct to how they have been set to operate. Error Log Mode The Error Log displays the history of logged error information. It displays the details between 2 alternating screens, which includes the error code, time and day of the week when the error was

logged d0 being Monday and d1 being Tuesday, and so on. Note the Networker must be set to the correct date and time for the recorded details to be correct. The control has the ability to store 32 error messages L0 L31, where L0 is the most recent error, L1 the second most recent, and so on. The value of the parameter setting is to the right of the LCD, and can be adjusted by using the UP and DOWN buttons whilst the SET button is pressed. The changed parameter value is automatically saved when the next parameter is selected or the Service menu is exited. Be careful not to hold down the SET button for too long without using the UP and DOWN buttons as exit from the Service Mode will occur.

Once all required changes have been made, exit the Service Menu by holding down the SET button for at least 2 seconds. The gas valve is a Honeywell VK8105M gas valve, with electronic modulation, to vary the gas flow rate. It consists of two primary main solenoids which open and shut the gas valve, and an electronic modulating solenoid, to vary the gas flow rate. The gas valve is controlled by the NG2 control. Modulation occurs when the NG2 control varies the current through the modulation coil on the gas valve. 1.7 Burner Operation The burners are known as Inshot burners. They consist of a venturi, which helps to draw air into the top of the burner, near the injectors. This is known as primary air and is used for gas mixing before combustion occurs. Once the gas and primary air leave the burner port, at the exit of the burner, combustion begins, and secondary air is added to the flame from the suction force developed from the combustion fan. There is a cross lighting gallery near the burner exit, which allows for cross ignition between each adjacent burner. 1.8 Spark Igniter Operation The Spark Igniter consists of a spark probe and earth probe used to create a fixed spark gap just like a spark plug on a combustion engine. The NG2 control creates a high voltage through a sparker canister to generate a spark across this gap. This spark gap is located beneath the burner port at one end of the burner rack. Once ignition has occurred and the flame is sensed, the spark igniter stops sparking. 1.9 Flame Sensor Operation The Flame Sensor consists of a single metal probe and is located beneath the burner at the opposite end of the burner rack from the Spark Igniter. When flame is present at this burner, a small electric current passes from the flame sensor through the flame to the closest ground point either the Burner or Heat Exchanger. The NG2 control monitors the Flame Sensor current level. If it is within an allowable range, then the controls allows for normal operation.

If the current is too low, the gas valve will shut down Combustion Fan Operation The combustion fans primary function is to pull air through the heat exchanger. This air is used to draw the flame into the heat exchanger inlet ports. It is also used to fuel the flames as they leave the burners. If this combustion airflow is reduced, the combustion quality will be reduced and sooting may occur. If the airflow is reduced considerably, then the flames will not be sucked into the heat exchanger and flames will rollout. Fortunately, there are measuring devices to prevent these occurrences from causing an unsafe condition. The combustion fan operates at a fixed fan speed, and is switched on and off by the NG2 control. When the fan is in operation, the suction effect of the fan creates a vacuum inside the heat exchanger from the heat exchanger inlet ports all the way through to the combustion fan box, which the combustion fan is mounted to. During startup, the combustion fan performs a prepurge for approximately 15 seconds. This ensures that there is no unburnt fuel in the heat exchanger. During this phase, the required quantity of airflow for adequate combustion is confirmed by a vacuum pressure 14 15 switch. If the airflow is not sufficient, then the vacuum pressure will be too low, and the pressure switch will not close, and a pressure switch error will be logged and no ignition will occur. During normal operation the vacuum pressure generated by the combustion fan is continually monitored by the pressure switch. If this vacuum pressure drops too low, then pressure switch will open, the burners will the shut down and an error will be logged. During a normal shut down sequence, the burners will shut down, and the combustion fan will switch off after 5 seconds Pressure Switch Operation PRESSURE SWITCH The pressure switch is a Cleveland NS2 series diaphragm pressure differential activated switch AGA Approval Certificate

number 7290.

MX models have one pressure switch and HX models have two. Combustion Airflow Proving Switch All models The pressure switch for proving sufficient combustion airflow is located in the vicinity of the combustion fan and measures the vacuum pressure in the heat exchanger outlet box prior to the combustion fan. If there is insufficient vacuum pressure to ensure for safe and reliable ignition or combustion quality the switch becomes open circuit then the 24 volt line to the gas valve is cut. Condensate Blockage Protection Switch HX models only The pressure switch for ensuring the condensate drain is not blocked and filling with water is located in the same location as the Combustion Airflow Proving Switch. The vacuum pressure is measured in the condensate tank through a probe. If the condensate level rises to the point where the combustion quality is unsatisfactory, the vacuum pressure measured by the switch falls below the open circuit pressure and the 24 volt line to the gas valve is cut. 15 16 1.12 Main Fan Assembly Operation ROOM AIR FAN A centrifugal fan and Permanent Split Capacitor PSC motor, housed in a metal scroll are used for room air circulation. The room air fan is contained within the fan cabinet. A speed sensor mounted on the motor end plate provides speed feedback to the NG2 control to maintain the required speed. The NG2 also controls the timings for the room air fan operation. Actual diameter of 284 mm and width of 265 mm. 16 17 1.13 Operation Flow Charts Heater Start up Flow Chart Heater switched on Combustion fan hold off 2 sec Pressure Switch Closes Combustion Fan Prepurge 15 sec Ignition Ignition retry phase activated Flame detect time Has flame been detected within 4.5 seconds No Yes Flame validate time Has flame been present for 10 seconds. No Yes Initiate main fan holdoff time of 10 seconds. Run at minimum fan speed of 500 rpm Has supply air thermistor reached 40 C Service parameter S7 within 120 seconds.

No Fan speed ramps up Are all zones open or no zones programmed into Networker. No Yes Normal operation continues Thermistor limp mode activated. Heater runs at minimum gas pressure and maximum set fan speed during steady state operation. Yes Run at steady state fan speed Installer parameter I1 Run at economy fan speed Installer parameter I3 Steady state operation 17 18 Heater Shut down Flow Chart Heater switched off Gas valve closes Yes Is supply air temperature below 50 C Service parameter S9 No Combustion fan postpurge 5 sec Yes Ramp down fan speed by 10 rpm every 0.5 seconds Service parameter S8 until minimum fan speed of 500 rpm is reached. These faults can be viewed by entering the Service Menu. A brief description of each fault code is shown below, followed by detailed troubleshooting for each fault code. 3.1 Fault Code Summary Below is a list of fault codes to be used for diagnostics and troubleshooting. Fault Code Error 30 LCD Message Description While the main fan is operating the main fan speed sensing signal has been detected as incorrect for more than 200 seconds. Error 32 Board Failure This fault indicates that parameter data in nonvolatile memory could not be accessed and that all parameter data has been restored to default values. Error 33 Error 35 The feedback current from the gas valve modulating coil is not detected for at least the gas valve modulating coil fault delay time interval of 5 seconds even though a drive level is being applied to the coil. The supplyair thermistor has been detected as either open or short circuited for at least the supplyair thermistor fault delay time interval of 5 seconds. Error 36 Error 40 Error 41 Error 42 The temperature registered by the supplyair thermistor did not reach the modulation set point temperature defined by installer setting number 6 within the main fan override time defined by factory parameter number 8.

With this default value, during this stage of the thermistor cool down process the main fan will be ramped down by 10 rpm every 500 ms until the absolute minimum fan speed allowed is reached The combustion fan overheat switch has been detected as opened forcing the overheat cool down process to be initiated. So long as this switch remains open this fault condition is reported. The supply air overheat switch has been detected as opened forcing the overheat cool down process to be initiated. The supply air thermistor temperature has exceeded 90 C, forcing the overheat cool

down process to be initiated. So long as this temperature is exceeded this fault condition is reported. 19 20 Error 43 Error 44 Error 45 Error 46 Error 47 Error 48 Error 49 Error 50 Error 51 The condition that has forced the overheat cool down process to be initiated has been removed with the remaining cool down process to be completed. During an ignition at the FLAMEDETECT state or thereafter a flame rollout signal is detected and the maximum rollout events allowed has not been exceeded. The heating cycle is forced into its OFF state with a restart initiated. The 24 VAC voltage level has dropped below the threshold level defined by factory parameter number 27 for at least the 24 VAC under threshold level delay time. During an ignition attempt within the FLAMEDETECT state the flame signal is not detected within the flame detect time interval and the maximum attempts at flame detection during ignition have not been made. The heating cycle will be forced to its OFF state and a restart initiated. During an ignition attempt within the FLAMEVALIDATE state the flame signal is lost within the flame validate time interval and the maximum attempts at flame validation during ignition have not been made.

During the ON phase of the heating cycle after the FLUEDELAY state has been processed the combustion chamber pressure switch has opened indicating a pressure loss with the maximum times this is allowed not exceeded. With the gas valve main coil energised flame has unexpectedly been lost, the heating cycle forced into its OFF state with a restart initiated. With no gas being expelled and no ignition source active a flame rollout signal has been detected indicating a problem with the flame rollout sensing circuitry. Error 52 Error 53 Error 54 Error 55 Error 56 Error 57 With no gas being expelled and no ignition source active a flame signal has been detected indicating a problem with the flame sensing circuitry. The number of overheat cool down procedures that have occurred in the cool down activation check time interval has exceeded the maximum allowed. During an ignition at the FLAMEDETECT state or thereafter a flame rollout signal is detected with the maximum rollout events allowed exceeded. The heating cycle is forced into its OFF state with no restart initiated. During an ignition attempt within the FLAMEVALIDATE state the flame signal is lost within the flame validate time interval with the maximum attempts at flame validation during ignition exceeded. The heating cycle will be forced to its OFF state with no restart initiated. With the combustion fan forced on a pressure switch is detected as open after the combustion fan delay time has expired, indicating that the switch is stuck off and did not close when the switch should. With the combustion fan forced off, the pressure switch is detected as closed indicating that the switch is stuck on and is not open when it should be.

20 21 Error 58 Error 60 Error 61 Error 62 Error 63 Error 64 Error 65 Error 66 Error 67 Error 68 Error 69 Error 70 Error 71 During the ON phase of the heating cycle after the FLUEDELAY state has been processed the pressure switch has opened indicating a pressure loss with the maximum times this is allowed exceeded. The heating cycle will be forced to its OFF state with no restart. A motor open circuit fault exists due to the NG2 controller losing the AC voltage signal supplied to the motor. Board Failure On energizing the primary valve control relay its contact is not detected as closed within the primary valve control relay contact closed verification time indicating that it is stuck off. Board Failure With the primary valve control relay not being energized its contact is detected as closed indicating it is stuck on. Board Failure While the primary valve control relay should be energized its contact is detected as opened by the primary microcontroller. The gas valve modulating coil current has been detected as exceeding the absolute maximum allowed 160mA for at least the gas valve modulating coil fault delay time interval. While the fan limp fault is registered and a motor open circuit occurs or an overheat cool down is initiated the motor lockout fault is flagged. Board Failure The secondary valve control relay contact was not detected as closed within the secondary valve control relay contact closed verification time indicating that it is stuck off. Board Failure With the secondary valve control relay not being energized its contact is detected as closed indicating it is stuck on. Board Failure While the secondary valve control relay should be energized its contact is detected as opened by the primary microcontroller. The 24 VAC voltage level has been

lost completely possibly due to the 2A fuse being open circuited.

Board Failure This fault indicates that the secondary microcontroller did not shutdown the heating cycle within the heating cycle maximum shutdown delay time allowed in response to a fault condition detected by the primary microcontroller Board Failure This fault indicates that the primary microcontroller detected an invalid heating cycle state being processed by the secondary microcontroller. The associated fault data value indicates the data value representing the heating cycle state that was detected as invalid. Limp Mode Operation The heater still operates with this error present, though the operation may not give the maximum or best performance. The unit will automatically operate at full fan speed. The fan will not vary speed, as the NG2 has no fan RPM signal. Service Check List Perform Fan Speed Sensor Test Check the speed sensor is correctly located in the hub of the motor end plate. Check the loom and the connection plug are not damaged. Remove speed sensor from motor end plate and check; That no foreign matter has entered the sensor cap. The sensor PCB is firmly secured within the sensor cap. The 2 sensor probes on the PCB are vertically aligned. The wiring circuit is not damaged. Check for a loose fan impellor on the motor shaft. Replace fan speed sensor Check and or replace the NG2 module and retest. The heater may still operate with this error present. The unit may be used until a service technician attends. Service Check List Reset the NG2 module by temporarily changing any installer s parameter then move to the next parameter then back to the parameter and change back to its original value. Check the installer parameters. Limp Mode Operation The gas valve modulating coil control reverts to open loop mode where the current level supplied to the modulating coil is fixed at 60 ma. Should the feedback signal become available the control reverts back to normal operation.