

I'm not a robot



WITHOUT FRIDGE DEFEND YOU ARE NOT PROTECTED Dometic & Norcold reliability and fire safety, can you live without it? In order to save money and keep your 6 cubic foot Dometic RV fridge safe, the Fridge Defend by ARP should be installed. This page shows the installation for the models listed above. REQUIRED TO DOWNLOAD INSTALLATION INSTRUCTIONS - WEB PAGES ARE SUPPLEMENTAL - EACH VERSION OF CONTROL HAS INTRICACIES REQUIRING THE WRITTEN INSTRUCTIONS. Instructions: Subjects are listed on left. Click the link to the right to go directly to the subject matter on this page. The Dometic's 6 cubic foot model refrigerators are very efficient for Class-B, Slide-In Campers, and Travel Trailers. The issue with all of the aforesaid RVs is that they see a lot of tilting during everyday driving, thus many of these fridges have a short life. With the Fridge Defend by ARP, one can use their RV as an everyday driver and not worry about damaging the fridge by parking off-level. We own both a DM2652 and a 22 year old RM3663. The Fridge Defend is a necessity to keep these fridges safe, reliable, and efficient. Click here to see how the ARP helps prevent fires while improving reliability and efficiency. The cooling unit to the left is our demo cooling unit that we bought new for testing the Dometic refrigerators while developing the Fridge Defend control. This cooling unit has been tilted off-level for the purpose of testing over 600 times as of the year 2018, and the count is climbing! The cooling unit was tested for performance when it was brand new, and it has been tested every year since, it runs the same as the day it was new! This cooling unit has gone from Montana at 10,000 feet of elevation to the Salton Sea at 200 feet below sea level. It has been from 20 degrees F to 110 degrees F operating conditions. Needless to say, we have spent so much time with this cooling unit, we consider it a friend :) The photo to the left is an Amish cooling unit in a DM2652. This temperature sensor (RTD) photo shows the sensor in the correct position. Note that the red arrow points at the flue tube, the flue tube is the first tube you will see when opening the boiler housing. The green arrow points at the boiler tube, where the temperature probe is to be installed. The yellow arrow shows the wire coming off of the temperature probe away from the boiler tube so that insulation can be placed between the wire and the boiler and flue tubes. Please note also the direction of the temperature probe clip, it must face away from the flue tube. WARNING: The temperature sensor must not be on or touching the flue tube, this will void the Fridge Defend temperature sensor warranty. Insulation must be placed between the flue tube and the temperature sensor. ARP Boiler Sensor Install Click here for temperature sensor install video. This drawing shows the typical location to mount the Fridge Defend control box. Because the Fridge Defend is automatic once setup, we recommend mounting the controller in the cooling unit compartment. The controller shown has been mounted on the Dometic refrigerator controller housing, please see information below for wiring information. To the left is the condenser of a DM2663, this is the configuration of the DM and RM series cooling units which use helium. Helium has a narrower effective operation range and requires the Fridge Defend Fan Controller and Blowers for efficient operation. The ARP Fan Control is a must if your evaporator looks like this example. Please note that all of the following specifications are believed to be accurate. If any errors are found, please bring them to our attention as soon as possible. For critical specification please contact Dometic as they make changes to their specifications without notice. FRIDGE MODEL: RM2607; RM2611; RM2612; RM3604; RM3607 ParameterValue Fridge Defend Boiler Temperature185-195 C Fan Control Absorber Coil Temperature120-135 F Off-Level Operating Limit Click Here Minimum DC Power Supply 9.6 VDC Maximum DC Power Supply22 VDC Maximum AC on 12VDC Supply Line6 VAC Board 12VDC Fuse 3 A Board AC Fuse 5 A VAC Operating Range100-132 VAC DC Heater Power Rating215 W DC Current18 A DC Heater Resistance per Heater (cold)0.67 Ohm DC Fuse30 A AC Heater Power Rating295 W Current2.5 A Heater Resistance per Heater (cold)48 Ohm Gas Pressure10.5-11.5 Inch-H2O Gas Jet#53 Gas Thermocouple 25-35 mVDC Electrode to Burner Gap3/16 inch Please click here for more information on Dometic thermistor troubleshooting. FRIDGE MODEL: RM2652; RM2662; RM2663; RM3662; RM3663; ParameterValue Fridge Defend Boiler Temperature185-195 degC Fan Control Absorber Coil Temperature120-135 degF Off-Level Operating Limit Click Here Minimum DC Power Supply 9.6 VDC Maximum DC Power Supply22 VDC Maximum AC on 12VDC Supply Line6 VAC Board 12VDC Fuse 3 A Board AC Fuse 5 A VAC Operating Range100-132 VAC DC Heater Power Rating215 W DC Current18 A DC Heater Resistance per Heater (cold)0.67 Ohm DC Fuse30 A AC Heater Power Rating295 W Current2.7 A Heater Resistance per Heater (cold)44 Ohm Gas Pressure10.5-11.5 Inch-H2O Gas Jet#58 Gas Thermocouple 25-35 mVDC Electrode to Burner Gap3/16 inch Please click here for more information on Dometic thermistor troubleshooting. Dometic Service Manual Downloads See above for troubleshooting info on this page Service Manual Download: RM2652, DM2652, RM2662, DM2662, RM2663, DM2663. Service Manual Download: RM2607, RM2611, RM2612, RM3604, RM3607, RM3662, RM3663 Service Manual Download RM2604 (manual control). Service Manual Download: RM2620, RM2820 If you cannot find what you need please use the Contact Us form on the top menu. INSTALLATION ANDOPERATING INSTRUCTIONSREFRIGERATOR FOR LP-GAS AND ELECTRIC OPERATIONRM2652 RM2852USA Corporate Office CANADAService Office 2320 Industrial Parkway Elkhart, IN 46515 Dometic Distribution Inc.Dometic Corporation 866 Langs Drive2320 Industrial Parkway Cambridge, OntarioElkhart, IN 46515 For Service Center Assistance N3H 2N7 CanadaPhone: 574-294-2511 Call: 800-544-4881 Phone: 519-653-4390822701206 MO-FO 0327 (French 3309599.003)Contents:PageInstallation 4Operating Instructions 8Maintenance & Service 12FOR YOUR SAFETYIf you smell gas:1. Open windows.2. Dont touch electrical switches.3. Extinguish any open flame.4. Immediately call your gas supplier.FOR YOUR SAFETYDo not store or use gasoline or otherflammable vapors and liquids in thevicinity of this or any other appliance.WARNING: Improper installation,adjustment, alteration, service ormaintenance can cause injury orproperty damage. Refer to thismanual. For assistance or additionalinformation consult a qualifiedinstaller, service agency or the gassupplier. Pour votre securiSi vous sentez une odeur de gaz:1. Ouvrez les fenetres.2. Ne touchez aucun interrupteur.3. teignez toute flamme nue.4. Avertissez immediatement votre fournis-seur de gaz. Pour votre securiNe pas entreposer ni utiliser de lessence ni dautres vapeurs ou liquides inflammables proximit de cet appareil ou de tout autreappareil.Avertissement: Une installation, un rglage, une modification, une rparation ou unentretien non conforme aux normes peutentrainer des blessures ou des dommagesmatriels. Lisez attentivement le mode dem-ploi fourni avec l'appareil. Pour obtenir delaide ou des renseignements supplementai-res, consultez un installateur ou un servicedentretien qualifi ou le fournisseur de gaz.1INSTALLATION &OPERATING INSTRUCTIONSRECORD THIS INFORMATION FOR FUTURE REFERENCEBEFORE INSTALLING THE UNIT-Model No. Serial No.Date Purchased Place of Purchase ! WARNINGImproper installation, adjustment,alteration, service or maintenancacan cause injury or property dam-age. Refer to this manual. For assist-ance or additional informationconsult a qualified installer, serviceagency or the gas supplier.! AVISCet appareil doit tre rpareusement par un rparateurautorit. Modification de l'appareilpourrait tre extrmementdangeruse, et pourrait causer malou mort.USASERVICE OFFICEDometic Corp.509 So. Poplar St.LaGrange, IN 46761219-463-4858Page 2 1. GENERAL INSTRUCTIONSThis appliance is designed for storage of foods andstorage of frozen foods and making ice.The refrigerators outlined herein have been design certi-fied by A.G.A. under ANSI Z21 .19 Refrigerator Standardfor installation in a mobile home or recreational vehicle andare approved by the Canadian Gas Association.The certifications are, however, contingent on theinstallation being made in accordance with the followinginstructions as applicable.In the U.S.A., the installation must conform with:1. National Fuel Gas Code ANSI Z223.1-(latest edition)2. Manufactured Home Construction and Safety Stan-dard, Title 24 CFR, Part 32803. Recreational Vehicles ANSI A1 19.2-(latest edition).The unit must be electrically grounded in accordance withthe National Electric Code ANSI/NFPA 70-(latest edition)when installed if an external alternating current electricalsource is utilized.4. Any applicable local code.In Canada, the installation must conform with:1. Current CSA B 149 Gas Installation Codes2. Current CSA Standard Z 240.4 GAS-EQUIPPED REC-REATIONAL VEHICLES AND MOBILE HOUSING3. Any applicable local codeThe unit must be electrically grounded in accordance withthe CANADIAN ELECTRICAL CODE C 22 Parts 1 and 2.2. VENTILATIONThe installation shall be made in such a manner as toseparate thecombustion system from the living space of the mobile home or recreational vehicle. Louveropeningsforairsupply or for venting of combustion products shall have aminimum dimension of not less than 1/4 inch.Proper installation requires one fresh air intake and oneupper exhaust vent. The ventilation kits shown in thisinstruction manual have been certified for use with therefrigerator model listed in the Table. For Certified VentSystem Kits see Section B. The ventilation kits must beinstalled and used without modification. An opening towardtheoutsideat floor level in the refrigeratorcompartment mustbe provided forventilation of heavier-than-air fuel gases. Thelower vent of the recommended kits is provided with propersize openings. The flow of combustion and ventilation airmust not be obstructed.The lower side vent is fitted with a panel which provides adequate access opening for ready serviceability of theburner and control manifold of the refrigerator. This should becentered on the back of the refrigerator.3. CERTIFIED INSTALLATIONCertified installations require one roof vent and one lowerside vent.For certified vent system kits, see Section B.For further information, contact your dealer or distributor.4. METHOD OF INSTALLATIONThe method of installation is shown in FIG. 1. It is essentialthat all maximum or minimum dimensions are strictly main-tained as the performanceof the refrigerator is dependent onadequate flow of air over the rear of the refrigerator.NOTE: The upper vent should becentered over the condenser coilat the back of the refrigerator.FIG. 12

Dometic rm2652 manual. Dometic service manual rm2652. Rm2652 dometic troubleshooting. Rm2652 manual.

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