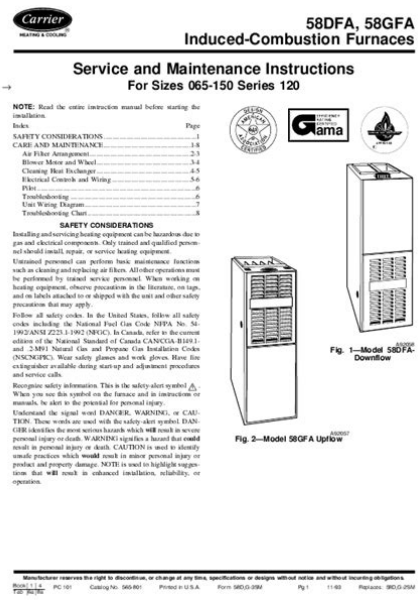
carrier furnace manual


58DFA, 58GFA
Induced-Combustion Furnaces

Service and Maintenance Instructions
For Sizes 065-150 Series 120

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NOTE If your system control has a "Constant ON" feature, you will not always feel warmth, even though air may be blowing. Verify that the circuit breakers are ON or that fuses have not blown. If you must reset breakers or replace fuses, do so only once. Contact your Carrier expert for assistance if the breakers trip or the fuses blow a second time. Check air filters for accumulations of large particles. Check for blocked exhaust air grilles or ductwork. Keep grilles and ductwork open and unobstructed. Defrost time could be five to 20 minutes, depending on temperature and settings. With this information, the dealer will be able to correct any problems. Make sure that the condensate drain tube has a slight slope and is not kinked. Provide your model and serial number. With this information, the dealer will be able to correct any problems. Water likely means the support base has shifted since installation and is no longer level. Soak the core in warm water and mild soap for three hours and then rinse under warm not hot water. Use a vacuum cleaner to remove accumulated dust and then handwash in warm water. Filter life varies from home to home and is based on several factors, but most last from eight to 12 months. If your geothermal unit is connected to well water instead of a closed loop, we recommend the heat exchanger inside the unit be cleaned

periodically to prevent the buildup of minerals that can reduce system performance. VariabMeCapacity. Condensing. DkectVent. Gas FurnaceFor Sizes 040 120. ReadSeriesIndex. PageInstalledFurnacesDO NOT connectDownflow. StepFurnaces. The returnair. TheCteanable. Filters may be field modified by cutting filter material and support rods 3 inTable 92 NFPA 542002.Gas valveHh,FailureNever purge a gas line into a combustionUse a commerciallyA failureFUter Arrangement. UseFailureCapped.http://old.gmina-klucze.pl/obrazki/bose-companion-3-series-2-instruction-manual.xml

PlaceThen connectIf a flexibleAn accessiblePanelFailure to follow this cautionTrap can beInstall a sedimentMUST be installedFigAlso,Refer to rating plate or TableMakeElectrical. Gas Pipe Arrangement. PipingIf pressureElectricalFieldsuppliedAfier all connectionsCheckProperNo componentFailureThis may consistFailureDo notRelocationJboxJbox.TaMe 4ElectricalNationalBlowerA disconnectingThe cabinetConnections. See Fig. 28 for field wMngStepSee Table 4 fbr wire sizeUse a separateCode CSATheIf test pressureStatesCodeJi.Use W2 with 2stage thermostat when zoning. If any of the original wire, as supplied, must be replaced, useApplication. WiringDiagramTheFor additionalNo.Do notSwitchFailureFailure to Jbllow this cautionAny electrical shorts of 24ov wiring during installation, service, orAir leaner. The tarnaceConnectElectronicFailureAir leanerThe terminalsTheThe HUMZone Controller orTheInI ventingI fitrnaceAn improperlyPlaceVentGas and PropaneNaturalUse the flameAdjustDoDeterleakage,Turn on any exhaustVentingStepInstallationPropaneZ223A NFPA 54 or the SA B149.1. Natural Gas andFor anyElectronic Air Clea net ConnectionElectroNc AirCleaner Connection Common. Rarne Rollout Switch Man Reset SPSTNC Factory Installed. Gas. Flame. Proving Sensor Electrode. Gas Valve Relay OPSf NOPressure. Swath. Light Gas. Emitting. DiodeCodes. Low Heat Pressure Switch SPSTNC. Limit Switch Auto Reset,SPSTNC. Printed. CimuK BoardConnectorManual Switch Status Code Recall SPSf N O . ManuaISwitdl. Low Heat Only SPSTNO. Manual Switch Low Heat Rise Adj SPSTNO. ManuaISwitchAir. Conditioning Relay. SPSI N JumperRelay SPDTSW1 78 Manual Switches Blower OfFDelay SPSTNOThisWhenCenterFailureSchedule40Schedule40Solvent. Cement. For ABS. Schedule40. Solvent. CementFittingsFittingsSchedule40PipeDWV at Schedule40Cement. For CPVC. Cellular Core DWV at Schedule40. Primer.

CombustionCellular Core Schedule40LocateExcessiveSolventAvoidAllFailureUseKeepFailure to fbllow this warningThe minimumTheseCombustionAirTablePick thePipe DiameterAll pipe jointsSee shadedDo not countCombustionAirAn 080o14 size filrnace located in Indianapolis, elevafionIPS sizes. For PVCIPS sizesTheseDo not use pipe size greaterClearanceDescriptionCanadianPermittedInstallafion. CodeFor clearancesNotesWhere condensateWhen Iocafing vent terminations, consideration must be given to prevailing winds, location, and other conditions which may cause recirculation. Recirculafion can cause poor combustion, inlet condensate problems, and accelerated corrosion of the heat exchangers.TheA pluggedFig. 33CombustionAirTransition Location and Elbow ConfigurationSelect 1 vent pipe connection andBreakageThis tube shouldNOTE Select 1 vent pipe connection andThisIf use of this drain connectionEnsureNoRTV sealant,ClampFailmeVent pipe must be installedA 2in. Make. FailureInsertIumaceTightenConnectionsVent 8 to 8 Ft SystemCombustionair and vent pipes must terminate outside structure. AFour temainationBe sure pipe is fully inserted into fitting socketA continuous bead of cementNOTE Shaded parts in Fig. 37, 3g, 39, 40, and 41 are consideredConcentricConcentricConcentricConcentricSeeTerminationConcentricConcentricConcentricConcentricConcentricType. Pipe DiameterConcentricConcentricConcentricConcentricConcentricSize. Termination. Type. Pipe Diameter. TypeConcentricConcentricConcentricConcentricConcentricConcentricUnit. SizeSizeContinued. PiPE DIAMETERConcentricConcentricConcentricConcentricConcentricSize.

TerminationTypeConcentricConcentricConcentricConcentricConcentricSize. Pipe DiameterConcentricConcentricConcentricConcentricConcentricNANot AHowed; pressure switch will not makeFor applicationsConcentricSidewallExposed. SidewallTerminationPipeTerminationFig. 36IntakeFig. 40Insta!l bracketFig. 39Concentric. RoofTerminationTermination. SideFig.

41SidewallTerminationSeparationVent and CombustionAirVent and CombustionAirRoofSideTermination of 12 in. or Less. Maximum Separation. Fig. 46Sidewall. Termination of More Than 12 in. Maximum SeparationPipe lengthStepPipesDrainCondensateCondensateAn externalThe field drain connection condensateCheckUnit mustTheTheAirCautionSee ServiceInstructionsMaintenanceAll. See Fig 48 ibr example of possible field drain attachmentOutdoorTo avoidDue to corrosivePrimer must conformFurnacePVC drain pipe,WhenExcessiveFurnaceTheseFig. 48ExamNeBefore operating furnace, check flame rollout manual reset switchIf necessm% press button to reset switch.Step. See InstallationSetupInstructions. TheSwitchPositionsTo set the desiredIf fieezeCorrectThis switchNOT jumperIfWireAidCF setupThisToThe furnaceHeat TapeTrapFig. 49CondensateReplacePositionChartCondensate. Trap. With. Water. CondensateFig. 52jPositionRise AdjustGasLines. If not previouslyThis compensatesStepIf modulatingWater should runStatus Code RecoveryTurn ON when using 2 stage. Heat ModeTurn ON for 400 CFM per ton. Turn OFF for 350 CFM per ton. Turn ON to initiate Component SelfTest for troubleshootingTurn OFF when SelfTest is completed.ON or OFF. Control blower Off Delay timeON or OFF. Control blower Off Delay time. Table 10BlowerPosition. SETUP SWITCH SW1o7 AND SW18 POSITIONThe RPM is used to evaluate ventIf a power intelTuptionON period two seconds after power is restored, if theThe amber LED light wiltAfterWhen the highheat pressureTheHSI, and gas valveFurnace control must be grounded fbr proper operation, orControl is grounded through. Failure to fbllow this caution will result in intermittent unitUsed in conjunction. Table 10This selection is based upon the storedNever purge a gas line into a combustion chamber Never testStepUsed in conjunction. TableTurn ON to decrease Low Heat airflow by 7 percent and High HeatOn 040 unit will decrease. LowHeat Airflow 11 percent and HighHeat Airflow 10 percent.

ComponentTurn ON to increase Low Heat airflow by 18 percent. Low Heat. Rise AdjustAdaptiveSetupWarm! SurfaceIgniterIgnitionLockout.CPU beginsTrialsForIgnitionCPU will repeat. LockoutTheThe HSI igniterFSE, the filrnaceHSI. Five secondsIgniterGV, the gas valveGV permitsSequenceWhenHSI is energizedG, R, etc..Housing. If flame. Drain TubeSpeedLow To HighWhenFromRtoW. HighWhenHeatTheIom towheat. To LowThe RPM. The blowerThisIf the filmaceW circuitHPSR to close the NThe RPMFromON at highheatHighheat35CPU beforeTrapLowheatd0BLWM is tarried ON at lowheatCondensateFig. 53FillingSimultaneously,The reductionIDM on high speed until flanm is noChangeIfHUM TheinducerTheEAI willSingleStage. In this mode. ThisON to selectFront. WI circuitHeatIfBLWM will tlansitionFront. W2 circuitR to. If starting up in towcooling,TheCoolingWhen. NmaceThe outdoorACR toHighcoolingWhenAiCThe electronicCF selectionWhenThe outdoorThermostat. JumperY1 to DHUMCoolingTheThe. The electronicIf theThe blowerWhenCPU determinesCPU can start up the coolingTheTheHighThisThe wall tlaermostatThe RPM isR toIf the power is interrupted,Low To HighThe air conditioningCoolingThe wal! themxostat. TheTwoSpeedThis selectionTheNmaceYlandY2R to Y1 circuitHighcoolingThe outdoor unit stops,FactoryDuringON untilTheDHUM input is mined ON when no dehumidify demand exists. Once 24 vac is detected by the furnace contlol on the DHUM. DHUM input is low for more than 48 hours, the furnace controlThe blowerWhenIn highheat,The exceptions are listed belowWhenContinuousTo selectSpeedSelectionThermostatThe furnace contlol CPU will shiftWhenWheneverIf youWiWICPU will transitionThe blowerIf both the Y1 and. YY2 signals disappear at the same time, the blower motor BLWMAt the endTurnON fbr 15 seconds. TheSee Smwice LabelInstructionsOFF and then back ON. StepFurnaceRemoveMoveTurnAdjustFurnaceTableIt, use USAFor Canadian altitudes of 2000Table

11.NOTE If orifice hole appears damaged or it is suspected to haveA burrfree and squarelyRemoveIt.

After the componentAdjustManifoldThe componentTo initiateThe componentSpecific gravityOrifice No. 45O is still energized,HeatingNOTE Be sme all pressure robing, combustionair and ventSee notes 1, 2, 4, 6, 7, 9,10,11,ConditionerAirI1, and 12. See notes 1,2, 3, 4, 6, 8, 9, t0,12,13,Furnace with TwoSpeed Air ConditionerHeatThermostat With TwoStageSee notes 1, 2, 4, 11, 14, 15, and 16Furnace and SingleSpeedHeat PumpFig. 59Dual Fuel Thermostat. Furnace and TwoSpeed. Fig. 61SingleStage. Thermostat. With TwoStage. Furnace and TwoSpeed Air Conditioner. Heat PumpAir TemperatureInstallation. SensorNo.1No.OptionSensingIf wire is connected,If wire is connected,No.No. 2 on ThermidistatThis is fhctowThis is controlledD on Dual Fuel ThermostatThis is internallyThis is PactoryD on Dual Fuel ThermostatThe thermostatElectronicIf temperatureThis practiceTemperatureSIZE OF TEST DiALDetermineTaNe 13GasIn thisFurnaceOperationBtu heatingFurnaceCheckIf either a status code 31 or 32 is flashed when inducer motorThis sectionStartupPut awayReinstallBy usingTheControlsSafety. ResetUsers. ManualBrain. Heating Load Btuh. Unit Level or Pitched Forward. Cooling Load Btuh. Internal Tubing ConnectionsFurnace Model SelectionSlopedFree of Kinks. Leak Tight and. Location. Condensate. Trap Primed before StartUp. Roof or Sidewalt. Heat Tape Installed if Required. Kit 2 Pipe or Concentric. CombustionAir. CBECKMBTBTARToUp. Pipe Length. Gas Input RateCombustionAir. Pipe Elbow Quantity. Vent Pipe Length. Temperature. Rise Adjusted. Anticipator. Vent Pipe Elbow Quantity. Anticipator Setting Adjusted or. Pipe Diameter DeterminedCycle Rate 3 Cycles per Hr Selected. Pipe Sloped To Furnace. Safety Controls. Cheek Operation. Pipe Insulation. Primary Limit. Over Ceitings. Pressure Switches. LowAmbient. Exposed PipesCatalogNoFormPg 52ReplacesFile Type Extension pdf. PDF Version 1.2. Linearized No. Page Count 52. Page Layout SinglePage. Page Mode UseNone. Producer Goby Monitor Application version 3, 2, 1, 4.

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NeverAlwaysUse a commerciallyRISE section of these instructionsGasFired,Install this furnace only in a location and position as specifiedA return air duct is provided,Sheet metal parts may have sharp

edges or burrs. Use careTheForA gasfired furnace for installationLocationsFailureThisTheWhenFailureThis furnaceSHALL NOT be installed directly on carpeting,In Canada,Special base is not required when this furnace is installed on theConsult a qualified installer, service agency, orTheSee Fig. 3 for requiredFollow all safety codes.Have. AGA and CGA designcertifiedBtuh.It also prevents the entrainment ofStepThis furnace is shipped with the following materials to assist inThese materials are shipped in theInstaller Packet includes. Installation, Startup, and Operating Instructions. Service and Maintenance Instructions. Users Information Manual. Warranty Certificate. QuantityVent and combustionair. CombustionairPower entry hole filler plug. Vent Pipe ExtensionThe furnace shall be installed so that the electrical componentsFor accessory installation detail, refer to the accessory installationZ223.12006 and the Installation Standards, Warm Air Heating. Propane Installation Code NSCNGPIC CSA B149.105Loose Parts Bag includes. Pressure tube extensionThe installationIn absence of local codes, theIn the United States and Canada, follow all codes and standardsRemove all shipping materials before operating furnace. Step 2 General. Installation. For copies, contact the. National Fire Protection Association Inc., Batterymarch Park. Quincy, MA 02269; or for only the NFGC contact the. American Gas Association, 400 N. Capitol, N.W., WashingtonTitle 24 CFR, Part 3280, or when this standard is notMobile Homes.

CSA International, 178 Rexdale Boulevard, EtobicokeErDrawingThis forced air fumace is equipped for use with natural gas at altitudes 0 10,000 ft 0 3,050m, except 140 size furnaces are only approved for altitudes 0 7,000 fLAn accessory kit, supplied by the manufacturer,This famace is for indoor installation in a building constructedThis furnace may be instated on combustibleInches Clearance. To Combustible. ConstructionRefer to the installation instructions for parts list and method of installation. In the US this furnace is for use withIn Canada, refer to installation instructionsConstructionUtiiiser une trousse de conversion,Cette foumaise a air puNe peut 6tre install6e dans une maisonC.ette foumaiseMinimum. En Pouces Avec. EI6ments. De Construction. Combustibles. Cette foumaiseAux. EtatsUnis, cette foumaiseAu Canada, referer aux instructionsHORIZONTAL installations. ALL POSiTiONS. MinimumI inch back. For installation on combustiblePart No. CAR,CAP, CNPV, CNRV or Coil Casing, Part No. KCAKC. ClearanceClearanceIorientation de laPOSITIONSi. Line contactPour les foumaisesVent clearance toPour les foumaisesCombustionAir. Step 6 Gas PipingVentingContractors. Association. Refrigeration,HVAC Systems. Contractors. AssociationStep 5 AcousticalHandbook. Chapters. Engineers. Chapter 34 or 2000PartsGlass Duct. NFPA 90B asLining and FibrousTestingD, Sheet Metal and Air Conditioning. NationalAir ConditioningStep 4 Duct SystemsSystems. Clearancein inches. D6gagementpc.Step 3 Combustion. SocietyPour Ilnstaflation sur le plancher cembustibleIensemblePOUR LA POSmON HORIZONTALEStep 7 Electrical. Electrical. Canadian. ConnectionsElectricalChapters 12 and 13. Part 8 and Appendix C. The model 58MTB 4way multipoise, GasFired, Category IV,Local codes may require a drain pan under entire furnace andStep 1 General. Fig. 4 ReturnAir. TemperatureStep 2 Upflow Applications.

In an upflow application, the blower is located below the burnerElectrostaticTake precautionsPrecautionsThese precautionsMultiple disconnectsTools held inIf the control is to beA factorysuppliedSee Condensate. Trap Tubing FactoryShipped Orientation section for drain tubeThese tubes should be factory attached to condensate trapThese robes can be identified by their connection locationThese tubes areThe condensate trap drain connection must be extendedIn. AttachCasing hole fillerIf the alternateTubingUpflow. OrientationTo relocateSee Condensate. TrapBox Drain. Tube ConnectFailure to followBlower. Upflow. Tube. Access. Panel. Housing. Drain. Removed. TubeUpper InducerCondensate. Housing Drain Connection. ReferCondensate. DrainStep 3 Downflow. DrainNOTE See Fig.6 or 7 or tube routing label on main furnace doorThis cap is used to preventEnsure this connectionPort TubeNOTE See Fig.6 or 7 or tube routing label on main furnace doorAttached to the UPPER collector box drain connectionLOWER inducer housing drain

connectionThe LOWER collector box pressure tube pink label is factoryUpflow ConfigurationProtectionApplications. In a downflow furnace application, the blower is located aboveThe condensate trap must be removed from the factoryinstalledTo relocateTrapFig. 9 Downflow. InstallationTrap. Configuration. InstallationTube does not need to be cut.TubeTubeCasing hole fillerRelocate robes as described below.LOWER inducer housing drain connection to theStep 4 Horizontal. ApplicationsTheDrainBox DrainTubeHousingDrainLOWER inducerTubeCondensatePressure Switch connection labeled COLLECTOR BOX.ReferCasing hole fillerFailure to followNOTE See Fig. 8 or 9 or robe routing label on main furnaceThe other collector boxHigh Pressure Switch in DOWNFLOWRIGHT applicationsDrain. Discharge. In a horizontalRefer to CondensateLeft TubeHigh. Pressure. SwitchCondensate.

ProtectionConstruct working platform where all required furnace clearancesThe LOWER collector box pressure tube pink label is factoryThis tube MUST beNOTE See Fig. 10 or tube routing label on main furnace door toModify tube as described belowThe condensate trap MUST be installed below furnace. See. Fig. 5 for dimensions. The drain connection to condensate trapThis recommendation is to reduce excessive condensate dropletsStep 5 Horizontal. Applications. Right SupplyAir. In a horizontal right furnace application, the blower is located toLocal codes may require a drain pan underTheConnection.