



TECHNICAL GUIDE

Echelon

MODELS: FC8T/LC8T

**GAS-FIRED
HIGH EFFICIENCY TWO STAGE
UPFLOW/HORIZONTAL FURNACES**

STANDARD & LoNOx

80% AFUE

**NATURAL GAS
60 - 120 MBH INPUT**



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.york.com for the most up-to-date technical information.

Additional rating information can be found at www.gamane.org.

DESCRIPTION

These high efficiency, compact units employ induced combustion, reliable hot surface ignition and high heat transfer tubular heat exchangers. The units are factory shipped for installation in upflow or horizontal applications.

These furnaces are designed for residential installation in a basement, closet, alcove, attic, recreation room or garage and are also ideal for commercial applications. All units are factory assembled, wired and tested to assure safe dependable and economical installation and operation.

These units are Category I listed and may be common vented with another gas appliance as allowed by the National Fuel Gas Code.

WARRANTY

20-year limited warranty on the heat exchanger.

10-year heat exchanger warranty on commercial applications.

5-year limited parts warranty.

FEATURES

- Two stage heating operation includes:
 - Two stage gas valve
 - Two stage inducer operation
- Provides increased comfort level & very quiet unit operation.
- Adjustable delay timer allows two stage operation with single stage thermostat.
- Compact, easy to install, ideal height 40" cabinet.
- Blower-off delay for cooling SEER improvement.
- Easy to connect power/control wiring.
- Built-in, high level self diagnostics with fault code display.
- Low unit amp requirement for easy replacement application.
- Integrated control module for reliable, economical operation.
- High velocity filter and side -return filter rack provided for easy field installation.
- Electronic Hot Surface Ignition saves fuel cost with increased dependability and reliability.
- Induced combustion system with inshot main burners for quiet, efficient operation.
- 100% shut off main gas valve for extra safety.
- PSC - four speed, direct drive motor with large, quiet blower.
- 24V, 40 VA control transformer and blower relay supplied for add-on cooling.
- Hi-tech tubular aluminized steel primary heat exchanger.
- Timed on, adjustable off blower capability for maximum comfort.
- Solid removable bottom panel allows easy application.
- Easy access from front of unit for cleaning, maintenance or service.
- Insulated blower compartment for quiet operation.
- Independent door removal for greater durability and ease of access.
- LoNOx models have been designed to meet specific code requirements.
- LoNOx models may not be converted to propane.

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Laparoscopic Colorectal Surgery Mark Coleman, Tom Cecil, 2017-02-24 This unique reference in laparoscopic colorectal surgery starts by looking at the establishment of the Lapco training programme in the UK It then goes on to provide a comprehensive technical manual of operative and patient care for laparoscopic colorectal surgery offers insight into training and assessment methodology and finally looks to the future and where we may be going It shares knowledge of a unique training programme which healthcare systems worldwide are trying to emulate and provides an up to date manual of know how from some of the world's most experienced laparoscopic colorectal trainers *The World We Want* Catherine Bishop, 2025-02-21 What happens when you handpick 30 smart articulate teenagers from across the globe and bring them to New York for 3 months during the Cold War They lived with American families attended American schools and participated in forums in person and on television discussing Middle East conflicts South African apartheid the Vietnam war American civil rights and women's place around the world Lauded as the voices of youth and hope they jammed with Pete Seeger chatted with US Presidents were star struck by Harry Belafonte and Ingrid Bergman took inspiration from Noam Chomsky and had tea with Eleanor Roosevelt Many delegates later had significant roles in politics academia and international affairs The Herald Tribune World Youth Forum was both an idealistic attempt to create a better more peaceful postwar world and an exercise in Cold War soft power diplomacy Using over 200 oral history interviews archives and memorabilia scattered across the globe and the fabulous surviving footage of the 1950s televised debates now viral on YouTube award winning historian Catherine Bishop brings to life the story of the Forum and its impact on young delegates For some it was simply a pleasant interlude For others it changed their world completely **Clinical Lymphatic Mapping in Gynecologic Cancers** Charles Levenback, Ate GJ van der Zee, Robert L. Coleman, 2022-02-20 Lymphatic mapping techniques have proven to be useful to the early detection and safe treatment of endometrial and cervical cancers however the techniques have much of value to offer for breast cancer also and particularly for vulvar cancer where there has been an explosion of interest and research In the new edition of *Clinical Lymphatic Mapping of Gynecologic Cancers* the techniques are fully explained with consideration of the latest developments and technologies **Medical Support of the Army Air Forces in World War II** Mae Mills Link, Hubert A. Coleman, Hubert Anderson Coleman, United States. Department of the Air Force. Office of the Surgeon General, 1992 **Medical Support of the Army Air Forces in World War II** United States. Air Force Medical Service, Mae Mills Link, Hubert Anderson Coleman, 1955 **Illuminating the Borders of Northern French and Flemish Manuscripts, 1270-1310** Elizabeth Moore Hunt, 2007 This study first examines the marginal repertoire in two well known manuscripts the Psalter of Guy de Dampierre and an Arthurian Romance within their material and codicological contexts This repertoire then provides a template for an extended study of the marginal motifs that appear in eighteen related manuscripts which range from a Bible to illustrated versions of the encyclopedias of Vincent de Beauvais and Brunetto Latini Considering

the manuscript as a whole work of art the marginalia s physical relationship to nearby texts and images can shed light on the reception of these illuminated books by their medieval viewers Air University Library Index to Military Periodicals ,1985

Political Parties and National Integration in Tropical Africa James S. Coleman,Carl G. Rosberg,2023-04-28 The essays in this book focus attention on the role of political groups in the new functioning and development of the new African societies and the political systems of which they are a part The authors all recognized authorities have sought to identify and compare the manifestations of the general tendency among the new states of Tropical Africa toward the establishment and consolidation of one party political systems and to examine in the light of this general trend the different dimensions of the problem of integration This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1964 **Political Parties and National Integration in Tropical Africa**

James Smoot Coleman,Carl G. Rosberg,1966 The Recapture of Guam United States. Marine Corps,Orlan Robert Lodge,1954 Summary Depicts the drama of a family living in an English village and how they are affected by World War II

Theories of the Information Society Frank Webster,2007-01-24 Coping in an era of information flows of virtual relationships and breakneck change poses challenges to one and all In *Theories of the Information Society* Frank Webster makes sense of the information explosion taking a sceptical look at what thinkers mean when they refer to the Information Society and critically examines the major post war theories and approaches to informational development This third edition brings the book right up to date with both new theoretical work and social and technological changes such as the rapid growth of the Internet and accelerated globalization reassessing the work of key theorists in light of these changes This book is essential reading for students of contemporary social theory and anybody interested in social and technological change in the post war era It addresses issues of central concern to students of sociology politics communications information science cultural studies computing and librarianship **The Maritime Farmer and Co-operative Dairyman** ,1922 *Epidemics*

and History Sheldon J. Watts,1999-01-01 This book will become the standard account of the way disease has transformed societies and of how the structuring of society politics the economy and the medical profession has shaped the spread and containment of epidemics AALL Directory and Handbook American Association of Law Libraries,1993 **OPERATIONAL MID-LEVEL MANAGEMENT FOR POLICE** John L. Coleman,2012-01-01 The focal pattern of this fourth edition aims to provide not only a framework from which a majority of police management ideas and theories germinate but their environmental development as well The text expertly delineates the practical application of middle management in its many forms The author has expanded the content of this fourth edition to enhance its requirements as a must read book for operational mid level police management The addition of the aspects of foundational leadership standards and

standardization moves the book to the forefront of police management resources The book is clearly written with a dynamic flow of leadership information that will expand the knowledge of its readers The updated text is crafted with judicious knowledge and a point of focus for clarity of information and useful practical application specifically to mid level police managers The content of the book is non traditional in many respects but yet very familiar to contemporary innovative leadership teachings The text has advanced beyond the traditional and ordinary to introduce some psychological and managerial theories not typically applied to secondary leaders The contextual content of this text is aimed at operational behavior of mid level secondary police leaders to attain desired performance of line workers through interactive and specifically focused management actions An acute awareness of personal self is also addressed as a prime factor in a secondary leader s ability to direct and control the behaviors of others Readers of this book should perceive a growth in their overall leadership skills and a better awareness of how his or her own personality influences the work environment as well as how the work atmosphere or environment affects the job performance of functional personnel **Assembly** West Point Association of Graduates (Organization),1994 *Airman's Guide* ,1952 **The Washington Senators, 1901-1971** Tom Deveaux,2005-08-24 The Washington Senators have a special place in baseball history as one of the most unsuccessful teams ever to play the game The Nats as headline writers had dubbed them by midcentury got their start in 1901 thanks to Byron Bancroft Ban Johnson and endured 71 up and down seasons in the American League which was created at the same time as the Washington ballclub This huge work exhaustively chronicles the capricious history of the Washington Senators from the beginning to the end in 1971 with detailed information on the management and players who kept the organization going in good and bad times Insights on how the team fit into the American League as well as statistics covering the team s records throughout its existence and the lifetime records of all members of the Baseball Hall of Fame who played with the Washington Senators are also provided **Goodwin's Official Annual Turf Guide for ...** ,1892 [Green Light!](#) Martin Wolfe,1993 In World War II the 81st Troop Carrier Squadron dropped paratroopers onto the battlefield often in the face of heavy fire This book relates the exploits of the 81st which mirrored the combat experience of World War II troop carrier units

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this video accompanies the chm 252 lab nitration of bromobenzene in this video students will get an introduction to the lab as well as the set up for conducting the reaction students should

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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used the amount of product predicted to be recovered was 8.7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction especially nitration of methyl benzoate to give methyl m-nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m-nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho/para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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nitration of bromobenzene lab report improved essays 731 words 3 pages open document essay sample check writing quality show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 °C

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

nitration of bromobenzene 6 nitration of bromobenzene 10 19 - Oct 01 2023

over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture HNO_3 3 mL H_2SO_4 in the 125 mL flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 mL erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 Å bond distances this will result in an optimization failure as the atoms are even close for the programme to accommodate their electrons demonstration of creating the p arenium cation by the nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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