

CHA10 SERIES UNITS

I - INTRODUCTION

The CHA10 packaged air conditioning units are designed for residential or small commercial applications. The unit can be slab mounted with end discharge or installed on an RMTS roof mounting frame. Figure 1 shows a cutaway. Auxiliary electric heat is available (ECHR). Other options are listed in Table 1.

If a hard start kit is necessary, refer to the "Cross Reference Section" of the Lennox Repair Parts Handbook.

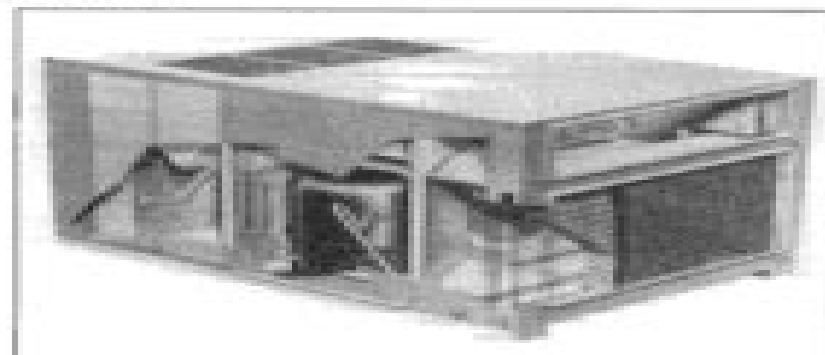


FIGURE 1

TABLE 1

Description	CHA10-261 CHA10-311 CHA10-410	CHA10-460 CHA10-510 CHA10-610	CHA10B-460
Optional Dust Enclosure	RTD-25	RTD-25	RTD-25-25
Optional POWER SAVING	RCP-40	RCP-40	RCP-40-40
and No. & size of Duct In.)	22 — 16 x 20 x 1	22 — 16 x 20 x 1	22 — 16 x 20 x 1
Optional Roof Mounting Frame	RMTS-50	RMTS-50	RMTS-50
or RMTS Adapter Kit	LB-20475B	—	—
Optional Minimum Fresh Air Damper	CA401-460S	CA401-460S	CA401-460S
Optional Comb. Supply & Return Plenums	SRPS-40	SRPS-40	SRPS-40
Optional Combination Ceiling Supply	—	—	—
And Return Blow-Down Diffuser	RTD-41	RTD-41	RTD-41
Optional Combination Ceiling Supply	—	—	—
And Return Flush Diffuser	RD-41	RD-41	RD-41
Optional Combination Ceiling Supply	—	—	—
And Return Flush Diffuser	RD-41-D	RD-41-D	RD-41-D
Timed-On Control	TTA24	TTA24	TTA24
Low Ambient Control	BM-3424	BM-3424	BM-3424
***PTC Heat	—	—	—
EA	—	—	—
Technosoft Compressors	P-R-12141	—	—
Copeland Compressors	LB-20901CA	—	—
P-R-8502	—	—	—

*Flush diffuser with adjustable baffle blades.

**Furnished with CHA10-460, CHA10-510 and CHA10B-460 units.

II - UNIT INFORMATION

A - Electrical Data

Model No.	CHA10-261	CHA10-311	CHA10-410	CHA10-412	CHA10-460	CHA10-510	CHA10-610
Line voltage data	120/200v 60Hz — 1ph	120/200v 60Hz — 1ph	120/200v 60Hz — 1ph	1120/200v 60Hz — 1ph	120/200v 60Hz — 1ph	1120/200v 60Hz — 1ph	1140/200v 60Hz — 1ph
Compressor	Full load amps 11.8	15.1	18.9	12.5	20.4	15.2	17.7
Current factor	.86	.87	.86	.86	.86	.86	.86
Locked rotor amps	56.0	87.0	103.9	66.0	107.0	72.5	83.0
Condenser Coil	Full load amps 1.4	1.4	1.4	1.4	1.5	1.5	1.5
Fan	Full load amps 2.2	2.2	2.2	2.2	2.2	2.2	2.2
Evaporator Coil	Full load amps 2.2	2.2	2.2	2.2	2.2	2.2	2.2
Blower	Full load amps 4.1	4.4	7.8	7.8	5.8	5.8	5.8
Maximum recommended fuse size (amps)	30	35	40	35	50	40	45
Minimum circuit ampacity	20.4	23.8	28.9	21.0	31.8	23.0	26.3

*Refer to National Electric Code manual to determine wire size and disconnect wire requirements.

Maximum of operating range are plus 10% and minus 5% of line voltage.

Minimum of operating range are plus and minus 10% of line voltage.

**Values are based on 200 volts. RLA shown are for step-down transformer output.

Lennox Air Conditioners User Guide

Michael Hoelscher



Lennox Air Conditioners User Guide:

A Comprehensive Guide to Fixing Your Air Conditioning Charles Nehme , Welcome to Mastering Air Conditioner Repair A Comprehensive Guide to Fixing Your Cooling System In a world where comfort and convenience are paramount air conditioning has become an integral part of our daily lives Whether you reside in a scorching summer climate or need to maintain optimal conditions for a commercial space a well functioning air conditioner is essential This book aims to equip you with the knowledge and skills required to troubleshoot and repair common issues that can arise with your air conditioning unit While many people rely on professional technicians to handle such matters learning how to fix your air conditioner can not only save you time and money but also provide a sense of empowerment and self reliance Throughout the pages that follow we will delve into the inner workings of air conditioning systems exploring the intricate mechanisms responsible for keeping your environment cool and comfortable From understanding the basics of refrigeration cycles to diagnosing common problems and performing necessary repairs this guide will serve as your indispensable companion However before diving into the technical aspects it is crucial to emphasize the importance of safety Working on air conditioning systems involves handling electrical components refrigerants and complex machinery Therefore it is essential to exercise caution and adhere to safety guidelines at all times If you are uncertain or uncomfortable with any aspect of the repair process it is recommended to seek professional assistance Remember this book serves as a starting point for your journey towards becoming an air conditioner repair expert It is designed to provide you with the foundational knowledge required to tackle common issues effectively However each situation may present its own unique challenges and it is important to exercise critical thinking and problem solving skills to address them By mastering the art of air conditioner repair you can not only extend the lifespan of your cooling system but also minimize energy consumption reduce environmental impact and enhance the overall efficiency of your unit Whether you are a homeowner a business owner or simply an enthusiast eager to explore the inner workings of these incredible machines this guide will be your key to a more comfortable and sustainable future So let us embark on this journey together armed with knowledge determination and a passion for making our air conditioning systems work at their best Prepare to unlock the secrets behind cooling technology and acquire the skills necessary to fix your air conditioner with confidence The cool breeze of success awaits you [Troubleshooting Guide to Residential Construction](#) Steven Bliss,2005-08-26 Avoid pitfalls with these expert tips techniques for diagnosing and preventing the most common residential building defects More than 50 experts in the field describe their proven techniques for preventing building problems **Guidance Notebooks for the Environmental Assessment of Airport Development Projects: Users' guide** Skidmore, Owings & Merrill,1978 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1963 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **HVAC System Repair** Charles Nehme, Navigating the HVAC System Repair Journey In the realm of home

comfort few things are as integral as a well functioning HVAC Heating Ventilation and Air Conditioning system It s the silent guardian that keeps us warm in the winter cool in the summer and ensures the air we breathe is of the utmost quality However like any complex mechanical system HVAC units are not immune to wear and tear They require attention understanding and occasional repair to continue operating at their best This book is a comprehensive guide designed to assist homeowners on their HVAC system repair journey Whether you are a seasoned DIY enthusiast or someone who is unfamiliar with the intricacies of HVAC systems this guide is crafted to provide you with valuable insights practical advice and expert knowledge From troubleshooting common issues to understanding the nuances of system components our aim is to empower you to make informed decisions about your HVAC system s health Throughout these pages you will delve into the fundamentals of HVAC systems You will learn to decipher the mysterious hums and clicks understand the significance of regular maintenance explore energy efficient upgrades and embrace the future of sustainable home climate control Each chapter is a stepping stone guiding you through the labyrinth of HVAC technology terminology and repair techniques We understand that the world of HVAC systems can be daunting It s a world filled with jargon intricate parts and seemingly endless choices But fear not Within these chapters you will find not just technical knowledge but also practical wisdom garnered from years of experience We ll address your concerns unravel the complexities and provide you with the tools to confidently troubleshoot maintain and even upgrade your HVAC system Remember this book is more than just a guide it s a companion on your journey toward a comfortable efficient and sustainable home So whether you re facing a sudden breakdown seeking ways to enhance your system s efficiency or simply curious about the workings of your HVAC unit you ve come to the right place Let s embark on this enlightening expedition through the world of HVAC system repair together By the end of this journey we hope you not only have a repaired HVAC system but also a deeper understanding of the technology that makes your home a haven of comfort Welcome aboard

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