



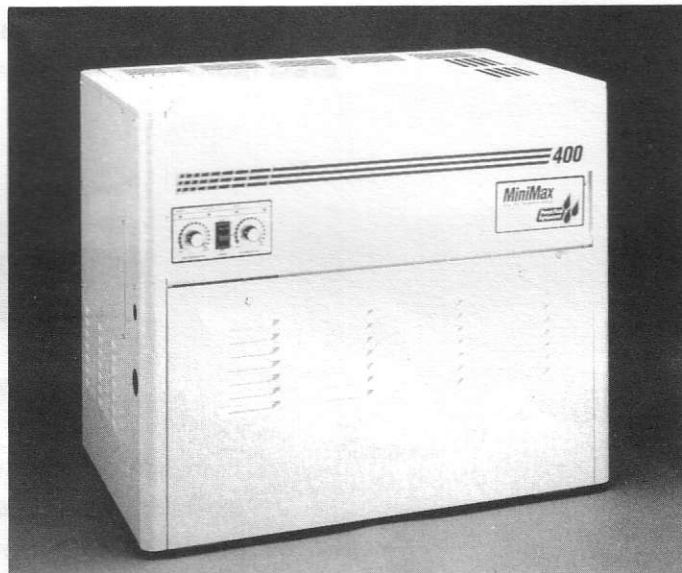
Swimming Pool Systems

MiniMax POOL & SPA HEATER

OPERATION, INSTALLATION & SERVICE MANUAL

FOR YOUR SAFETY - READ BEFORE OPERATING

Caution: If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.



To
Consumer
Retain For
Future
Reference

U.S. Patent Numbers
5,318,007 - 5,228,618
5,201,307 - 4,595,825
and European Patent Pending

Warning: Improper installation, adjustment, alteration, service or maintenance can cause property damage, loss of life or limb. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

TABLE OF CONTENTS

Introduction

| | |
|---------------------------------|-----|
| Important Notice | i |
| Specifications | ii |
| Specifications - Technical Data | iii |

User Section

| | |
|--------------------|---|
| Introduction | 1 |
| Starting Operation | 3 |
| Operating Control | 4 |

Installation Section

| | |
|-----------------------------------|----|
| Water Connections | 5 |
| Quick-Flange Installation | 7 |
| Water Header Manifold Reversal | 8 |
| Outdoor Installation Requirements | 9 |
| Indoor Venting Requirements | 10 |
| Gas Connections | 12 |
| Manifold Gas Pressure Adjustment | 13 |
| Electrical | 14 |

Service Section

| | |
|----------------------------------|----|
| General Maintenance Requirements | 15 |
| Heat Exchanger Maintenance | 16 |
| Burner Tray | 19 |
| Troubleshooting | 21 |
| Replacement Parts | 26 |
| Glossary | 28 |

MiniMax

Pool and Spa Heater

Congratulations on your purchase of a MiniMax high performance heating system. Proper installation and service of your new heating system and correct chemical maintenance of the water will ensure years of enjoyment. The MiniMax is a compact, lightweight and efficient gas fired high performance pool and spa heater. The heater is equipped with features that take advantage of new technology developed exclusively for the MiniMax. This is the first pool heater that can be directly connected to schedule 40 PVC pipe and has a built-in top.

IMPORTANT NOTICE

Gas Safety (Installation and Use) Regulations, 1994

It is the law that all gas appliances are installed by competent persons in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety, to ensure that the law is complied with.

General Requirements

The appliance must be installed by a competent person ie. CORGI registered in accordance with the relevant requirements of the Gas Safety Regulations, current I.E.E. Regulations, Model Water Byelaws, Local Water Authority Byelaws and any relevant requirements of the local gas supplier, local authority and the relevant British Standard Codes of practice and Building Regulations. Manufacturers notes must not be taken in any way as overriding statutory obligations. Typical documents include:

BS. 6891; Installation of low pressure pipework.

BS.6644; Installation of Gas Fired Hot Water Boilers 60kW to 2MW.

CP341; Water Supply.

British Gas Publications:

IM2; Purging Procedures of Non-domestic Gas Installations.

IM5; Soundness Testing Procedures for Industrial and Commercial Gas Installations.

IM11; Flues for Commercial and Industrial Gas Fired Boilers and Air Heaters.

Model Water Byelaws.