

The Heirloom Stove



Invest in a good night's sleep.

You can rest assured the controlled combustion design of the Heirloom will provide convenient overnight burning while maximizing heating efficiency and comfort.

Dovre's Heirloom stove has more fire-viewing ceramic glass window space than other stoves and includes a specially designed airwash system to keep the glass clean.

Also included are a double wall firechamber, log retainer and heavy duty grate for added durability. Ash removal is simplified by an ash pan accessible through opened front doors.

Heirloom Models Available

300 HC includes catalytic combustor and bypass system. Meets 1988 Oregon Clean Air Standard.

300 H easily converts to clean burn by adding catalytic combustor and bypass system option.

Heirloom Standard Features

1. Premium quality cast iron
2. Ceramic glass doors with airwash system
3. Convenient side loading door
4. Decorative brass front door handles
5. Exterior ash lip
6. Door vents
7. Cast iron log retainer, heavy duty grate and ash pan
8. Decorative side panel
9. Ribbed heat exchanger and heat shield

Additional Features

- Clean and efficient with secondary air system
- Controlled combustion for 8+ hour burn time
- Fits 16" fireplace hearth
- Top or rear flue connection

10 YEAR LIMITED WARRANTY
Authorized Dovre Dealer

BARNETT-MAJESTIC, INC.
309 Phone 762-8030
1620 - 5th Avenue
MOLINE ILLINOIS 61265



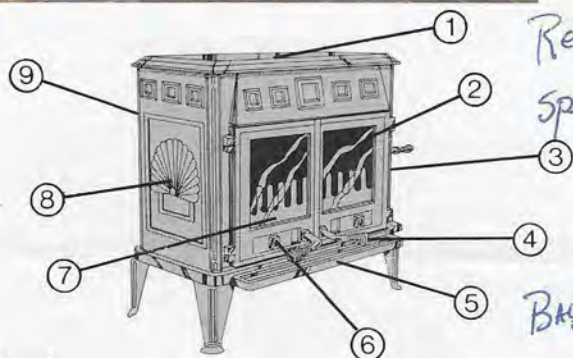
DOVRE, INC.

401 Hankes Avenue
Aurora, Illinois 60505
312/844-3353

Outside Illinois: 800-368-7387



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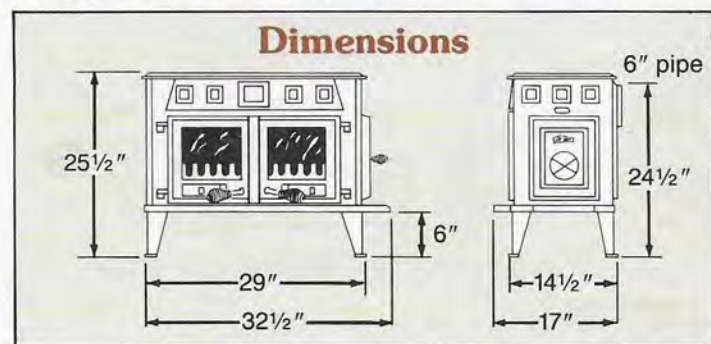
Options

- Back heatshield 10" clearance
- Side heatshield 8" clearance
- Sparkscreen
- 80 CFM fan kit

Specifications of Heirloom Stove

Maximum Heat Output	60,000 BTU/hr.
Log Length	24" maximum
Materials	Cast iron and ceramic glass
Weight	345 pounds
Clearance to combustible materials	20" from back of stove (standard) 10" with backshield option
Colors	Black, Warm Brown
Floor protection size	34"x48"

Important—Use only completely dried wood. When burning wood with a high moisture content, a significant quantity of energy will be lost in drying the wood.



301-8G7

*Key 799⁰²
Special \$669⁰⁰*

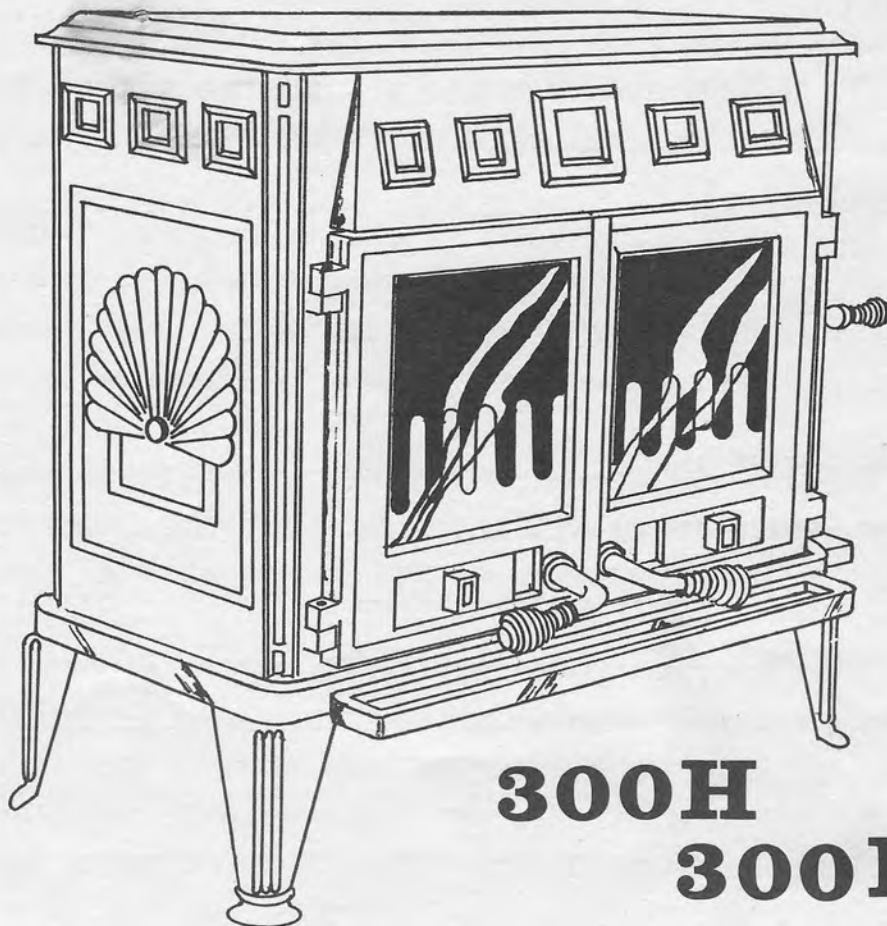
*Backshield \$32⁰⁰
Screen \$30⁰⁰*

*1 800 834 2878
Parts*

Howie

INSTALLATION AND OPERATING MANUAL

Heirloom Stove



300H
300HC



WOOD
HEATING
ALLIANCE

I N D E X

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I N T R O D U C T I O N

WELCOME TO THE DOVRE FAMILY OF ALTERNATIVE ENERGY USERS. AS A BEGINNER, OR AN EXPERIENCED SOLID FUEL CONSUMER, YOU ARE STARTING AN EXPERIENCE THAT OFFERS THE REWARDS AND ENJOYMENT OF "HANDS-ON" CONTROL IN HEATING YOUR HOME.

PROPER INSTALLATION AND OPERATION ARE NOW YOUR TWO REMAINING CONCERNS BEFORE YOU MAY ENJOY THE SAFE AND SATISFYING PERFORMANCE OF YOUR NEW DOVRE STOVE. WE HAVE CAREFULLY DESIGNED, TESTED AND THEN LISTED THIS PRODUCT WITH UNDERWRITER'S LABORATORIES TO INSURE IT WILL MEET OUR HIGH STANDARDS FOR AN EFFICIENT AND DURABLE SOLID FUEL APPLIANCE. THOROUGHLY READ ALL OF THIS MANUAL BEFORE STARTING TO ASSEMBLE OR INSTALL YOUR DOVRE UNIT. BE SURE YOUR DOVRE STOVE IS INSTALLED ONLY ACCORDING TO THE METHODS AND PROCEDURES DESCRIBED IN THE FOLLOWING PAGES.

DOVRE IS COMMITTED TO SAFETY IN THE USAGE OF OUR STOVES. AS YOU READ THROUGH THIS MANUAL, YOU WILL NOTE SPECIAL WARNING STATEMENTS. THIS IS TO CALL YOUR ATTENTION TO THE KEY AREAS THAT WE HAVE DEFINED IN COOPERATION WITH UNDERWRITERS LABORATORIES AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

IN SEVERAL SECTIONS OF THIS MANUAL REFERENCE IS MADE TO THE CATALYTIC (MODEL 300HC) AND NON-CATALYTIC (MODEL 300H) VERSIONS OF THE DOVRE HEIRLOOM STOVE. SAFETY CLEARANCES TO WALLS AND FLOOR ARE THE SAME FOR BOTH MODELS.

YOUR DOVRE MODEL 300HC HAS BEEN SPECIALLY DESIGNED TO PROVIDE A CLEAN BURNING FIRE. THE SYSTEM INCORPORATES A CATALYTIC COMBUSTOR AND BY-PASS DAMPERS. THE EMISSIONS AND EFFICIENCY HAVE BEEN TESTED BY OMNI ENVIRONMENTAL SERVICES, INC. AND HAVE BEEN FOUND TO MEET STRICT EMISSIONS STANDARDS. THE THREE MAJOR BENEFITS OF THIS CLEAN BURNING SYSTEM ARE HIGHER EFFICIENCY, LESS CREOSOTE FOR YOU, AND CLEANER AIR FOR EVERYONE.

SECTION I

PLANNING INSTALLATION

PLANNING YOUR STOVE INSTALLATION WILL HELP MAKE THE JOB GO SMOOTHLY AND SAFELY. WHILE YOUR DOVRE APPLIANCE IS LISTED BY UL IT IS STILL IMPORTANT TO CHECK LOCAL AND STATE BUILDING CODES BEFORE BEGINNING THE INSTALLATION. YOU MAY BE REQUIRED TO OBTAIN A BUILDING PERMIT IN SOME AREAS. THIS CAN BE ACCOMPLISHED BY CONTACTING YOUR BUILDING INSPECTOR.

IN ADDITION, WE RECOMMEND THAT YOU NOTIFY YOUR INSURANCE COMPANY REPRESENTATIVE AS SOME HOMEOWNERS' INSURANCE COMPANIES REQUIRE AN INSPECTION OF YOUR INSTALLATION. THIS CAN GIVE YOU THE ADDED SAFETY OF AN OUTSIDE OPINION OF THE INSTALLATION.

FINDING THE RIGHT LOCATION FOR YOUR STOVE IS A BIG PART OF THE PLANNING PROCESS. YOUR STOVE IS A RADIANT ROOM HEATER AND DEPENDS ON GOOD AIR CIRCULATION TO MOVE THE HEAT GENERATED. THEREFORE, A CENTRAL LOCATION IS BEST IF YOU ARE DEPENDING ON YOUR STOVE AS THE PRIMARY HEAT SOURCE. IF YOUR STOVE IS TO BE A ZONE OR SECONDARY HEAT SOURCE, CONSIDER PLACING IT IN A HARD-TO-HEAT AREA OR IN THE MAIN LIVING AREA. OF COURSE, IF YOU ARE GOING TO USE AN EXISTING CHIMNEY, YOU MAY HAVE TO COMPROMISE SOMEWHAT ON THE LOCATION. IF THIS IS GOING TO CAUSE TOO MUCH OF A PROBLEM, YOU MAY ELECT TO CONSTRUCT A NEW FACTORY-BUILT CHIMNEY INSTEAD. SEE THE SECTION ON CLEARANCES, PAGE 8, WHEN DETERMINING PLACEMENT OF UNIT, AND THE SECTIONS ON WALL AND FLOOR PROTECTION ON PAGE 8.

THE DOVRE HEIRLOOM IS NOT APPROVED FOR INSTALLATION IN MOBILE HOMES.

OTHER RECOMMENDED READING FOR SOLID FUEL USERS ARE:

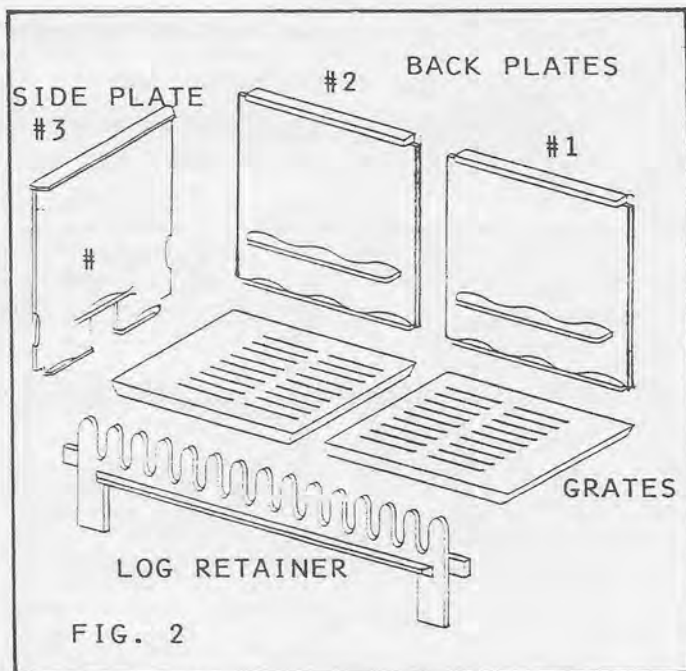
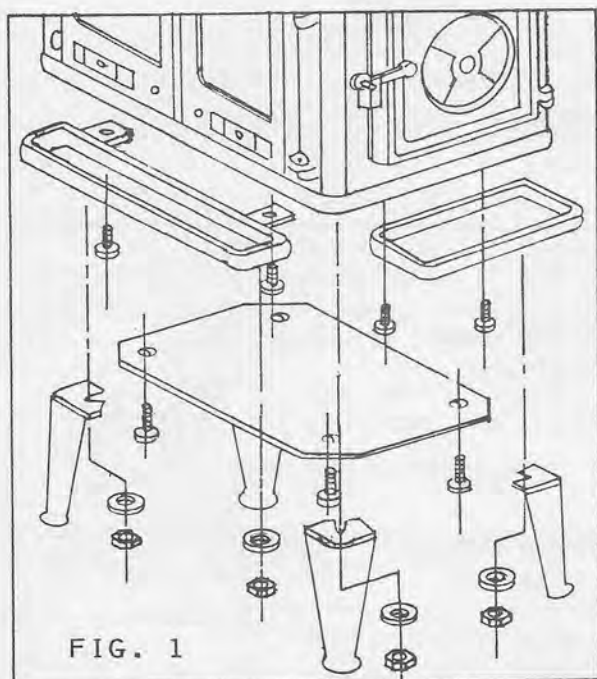
1. VIVIAN, WOOD HEAT
RODALE PRESS, 1976
ISBN 0-87857-149-3 PAPERBACK
2. SHELTON & SHAPIRO, THE WOODBURNER'S ENCYCLOPEDIA
VERMONT CROSSROADS PRESS, 1977
ISBN 0-915248-08-5 PAPERBACK
3. SHELTON, SOLID FUELS ENCYCLOPEDIA
GARDEN WAY PUBLISHING, 1983
ISBN 0-88266-307-0 PAPERBACK

ASSEMBLY

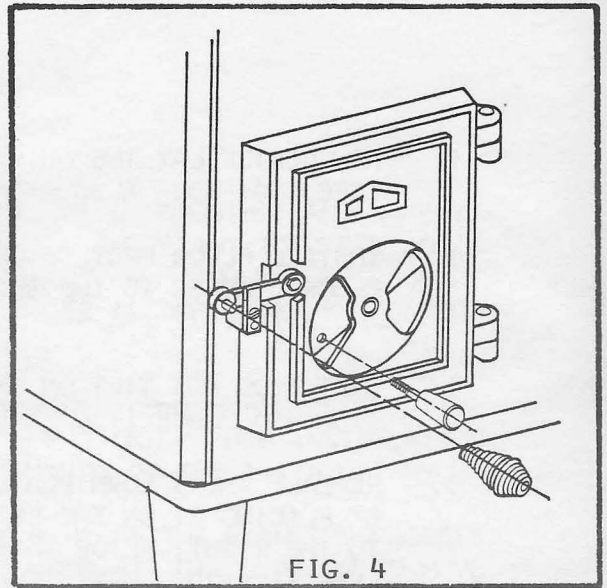
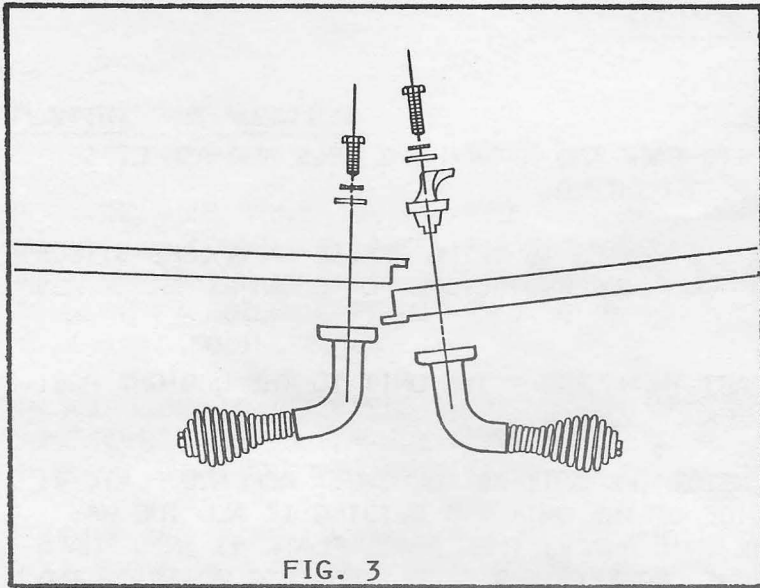
SINCE A CAST IRON HEATER IS HEAVY, IT IS EASIER TO ASSEMBLE AND INSTALL WITH TWO PEOPLE. BEFORE STARTING ASSEMBLY, PLACE THE UNIT NEAR THE FINAL POSITION, THEN FOLLOW THE PROCEDURE BELOW:

1. OPEN THE STOVE AND REMOVE ALL PARTS AND ARTICLES PACKED INSIDE. OPEN THE BOX FOUND IN THE UNIT, CHECK THE PARTS LIST AND INSPECT ALL PARTS AND THE CAST IRON BODY FOR SHIPPING DAMAGE. CONTACT YOUR DEALER IF ANY IRREGULARITIES ARE NOTICED. YOU SHOULD ALSO LIFT OFF THE FRONT DOORS, THE SIDE LOADING DOOR, GRATES, LOG RETAINER, SIDE & BACK BURN-PLATES AND ASH PAN TO MAKE THE UNIT LIGHTER AND EASIER TO MANEUVER.

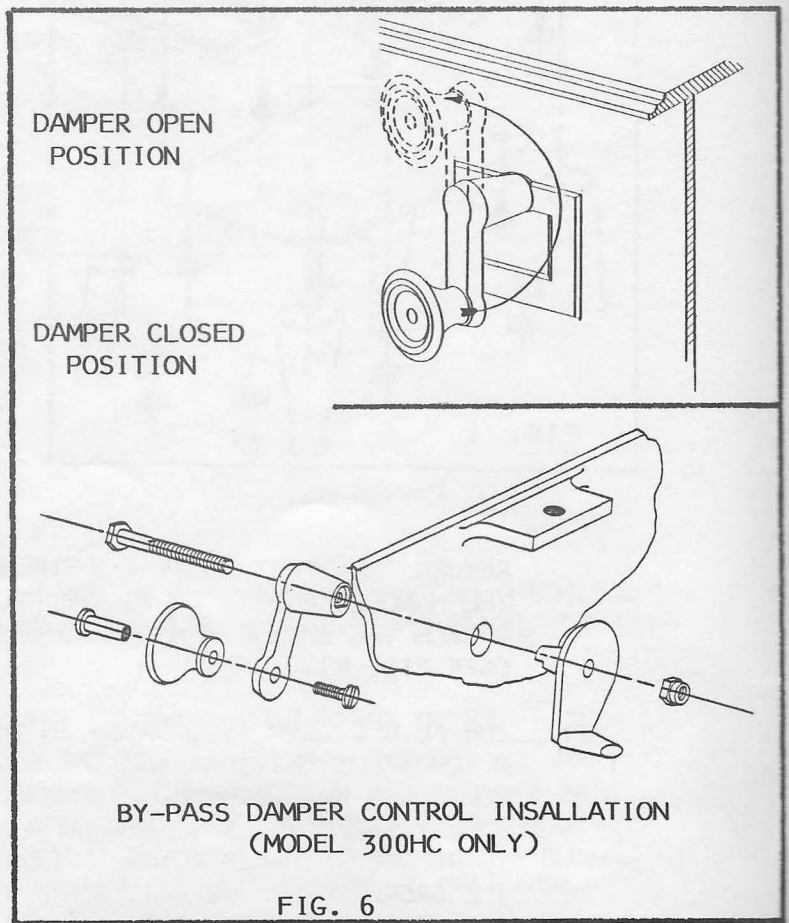
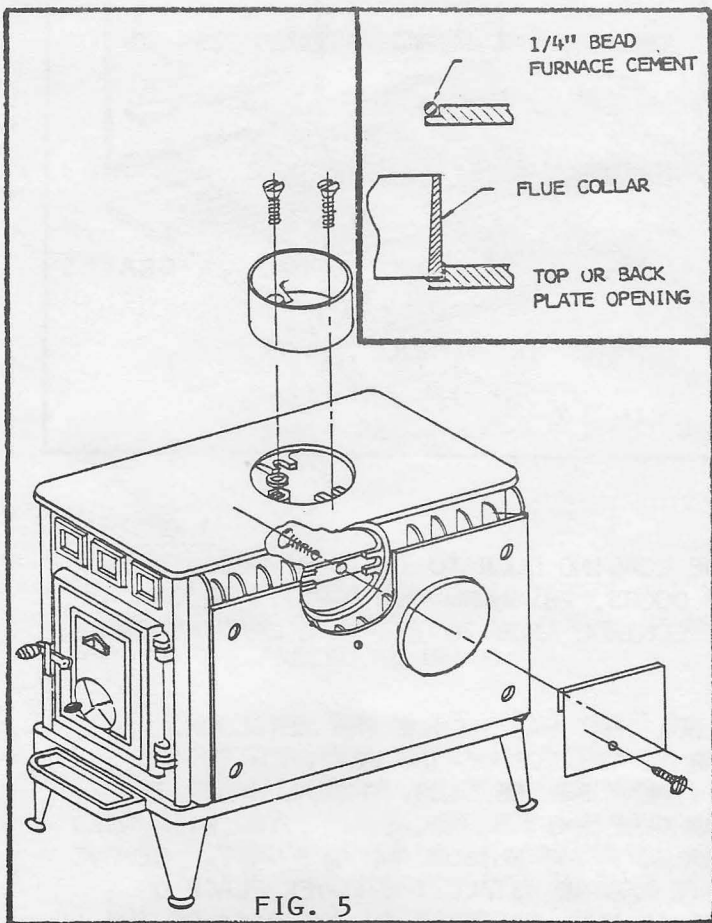
2. NOW GENTLY LAY THE UNIT ON ITS BACK AND ATTACH THE LEGS AND ASH LIPS (SEE FIG. 1). ALSO ATTACH BOTTOMSHIELD.
3. INSTALL FLOOR PROTECTION IF THE HEATER IS BEING PLACED ON A COMBUSTIBLE FLOOR. REFER TO THE SECTION ON FLOOR PROTECTORS FOR REQUIRED MATERIALS AND SIZES.
4. LIFT - DO NOT TILT ON THE CAST IRON LEGS - THE UNIT TO THE UPRIGHT POSITION AND PLACE IT ON THE FLOOR PROTECTOR.
5. REPLACE THE 3 BURN PLATES INSIDE THE UNIT AS FOLLOWS: REPLACE PLATE #1 BY PLACING IT ON THE LEFT SIDE OF THE UNIT AND SLIDING IT ALL THE WAY TO THE RIGHT; SLIDE PLATE #2 INTO PLACE; THEN SLIDE PLATE #3 INTO PLACE (SEE FIG. 2). NEXT, THE FRONT LOG RETAINER IS PLACED INTO POSITION AND THE 2 GRATES LAY ON THE BURN PLATES AND THE LOG RETAINER SHELVES. THE ASH PAN IS THEN PLACED BELOW THE GRATES FROM THE FRONT.



6. RETURN THE FRONT DOORS AND THE SIDE LOADING DOOR TO THEIR HINGES. ATTACH THE HANDLES AND LATCH TO THE FRONT DOORS, AS SHOWN IN FIG. 3. ALSO ATTACH THE SPRING HANDLE AND DRAFT CONTROL KNOB TO THE SIDE LOADING DOOR (SEE FIG. 4).
7. THE FLUE COLLAR IS LOCATED IN THE BOX THAT WAS INSIDE THE HEIRLOOM. FOR A TOP FLUE EXIT, ATTACH THE COLLAR TO THE TOP OF THE HEATER WITH THE BOLTS AND NUTS PROVIDED. FURNACE CEMENT MAY BE USED TO SEAL UNDER THE COLLAR (SEE FIG. 5). SHOULD A REAR FLUE EXIT BE NECESSARY, YOU WILL NEED TO REMOVE THE BACK COVER PLATE FROM BOTH THE SHIELD AND THE UNIT. REMOVE THE GASKET FROM THE UNIT COVER PLATE AND REINSTALL THE COVER PLACE ON TOP OF THE HEATER. THE FLUE COLLAR IS THEN FASTENED TO THE BACK OF THE UNIT WITH THE BOLTS AND NUTS PROVIDED, AS SHOWN IN FIG. 5.



8. IF YOU HAVE PURCHASED MODEL 300HC, OR MODEL 300H WITH THE H-CAT ACCESSORY PACKAGE, THE PARTS ARE INSTALLED AS FOLLOWS:
- A. REMOVE THE TOP OF UNIT
 - B. REMOVE SCREW AND NUT IN SIDE OF HEATER ABOVE THE FEED DOOR.
 - C. INSTALL THE BY-PASS DAMPER CONTROL ARM, AS SHOWN IN FIG. 6, IN PLACE OF SCREW AND NUT.



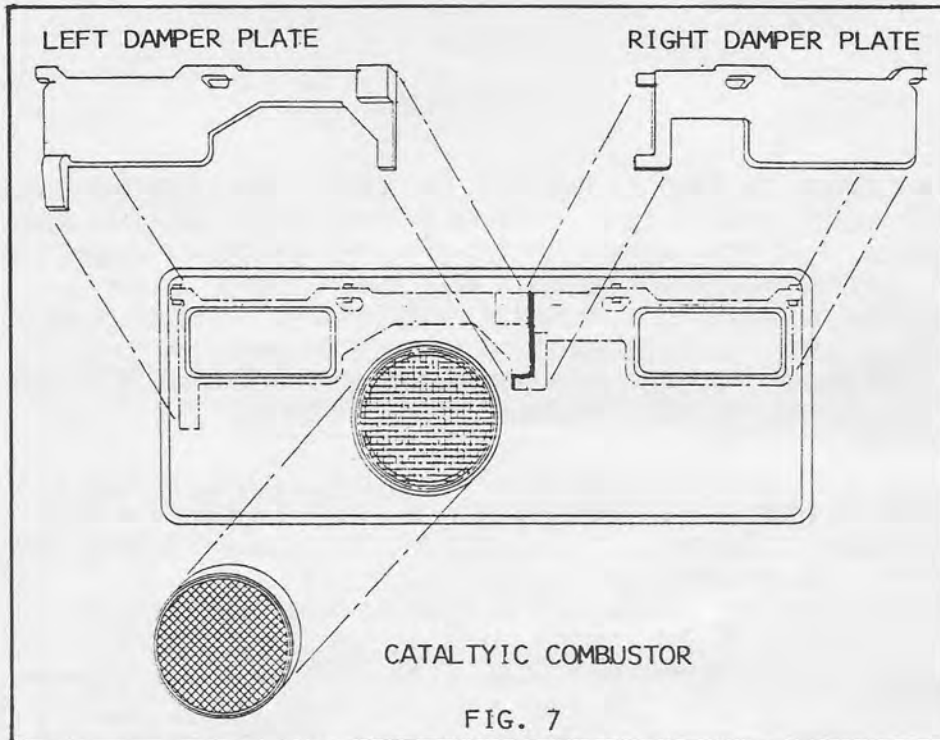


FIG. 7

- D. INSTALL THE RIGHT BY-PASS DAMPER AND THEN THE LEFT BY-PASS DAMPER (SEE FIG. 7).
 - E. PLACE THE DAMPER FIXING BAR AS SHOWN ON FIG. 8.
 - F. CAREFULLY PLACE THE CATALYTIC COMBUSTOR INTO THE CAST IRON HOLDER, AS SHOWN IN FIG. 7, AND PLACE THE 1/8-INCH THICK CERAMIC INSULATION BETWEEN THE STAINLESS STEEL SHELL OF THE CATALYST AND THE CAST IRON HOLDER.
 - G. ROTATE THE DAMPER CONTROL ARM TO BE SURE THE SYSTEM WORKS PROPERLY BEFORE REINSTALLING THE TOP.
 - H. RETURN THE STOVE TOP TO ITS ORIGINAL POSITION AND TIGHTEN FIRMLY.
9. INSTALL THE CHIMNEY CONNECTOR BETWEEN THE HEATER AND THE CHIMNEY.

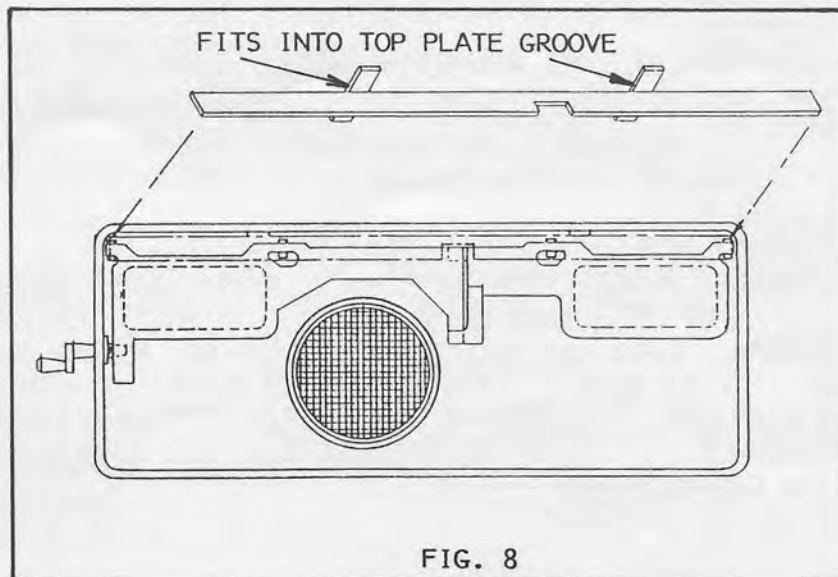
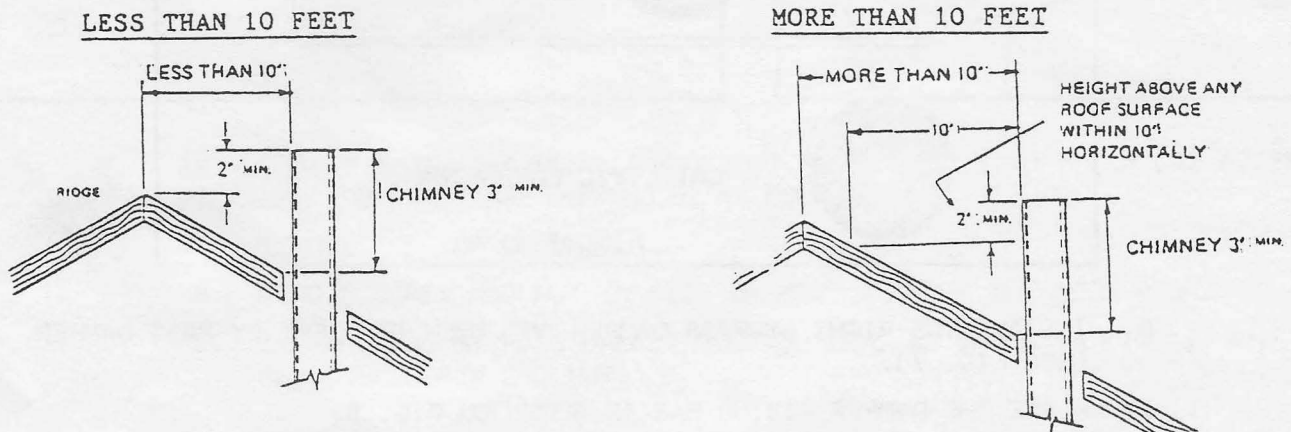


FIG. 8

CHIMNEYS

OF COURSE, THE CHIMNEY IS RESPONSIBLE FOR VENTING OUT SMOKE AND GASES. THIS IS DONE BY CHIMNEY DRAFT. DRAFT IS A FUNCTION OF THE HEIGHT AND DIAMETER OF A CHIMNEY FLUE COMBINED WITH FLUE TEMPERATURE VERSUS OUTSIDE AIR TEMPERATURE. A WARM CHIMNEY WILL DRAW BETTER ON A COLD DAY THAN ON A MILD DAY.

THE NFPA, AND MOST LOCAL CODES, REQUIRE A CHIMNEY EXTEND A MINIMUM OF THREE FEET ABOVE THE HIGHEST POINT WHERE IT PENETRATES THE ROOF AND AT LEAST TWO FEET HIGHER THAN ANY PART OF THE ROOF WITHIN TEN FEET OF THE CHIMNEY.



EXISTING MASONRY CHIMNEYS MAY BE APPROPRIATE FOR YOUR UNIT IF THE CHIMNEY FLUE DOES NOT SERVE ANY OTHER APPLIANCE. A DOVRE UNIT REQUIRES A MINIMUM 6" DIAMETER FLUE. IF YOU ARE PLANNING TO USE AN EXISTING CHIMNEY, FIRST HAVE IT CLEANED AND INSPECTED BY A QUALIFIED PROFESSIONAL TO INSURE THAT IT HAS A CLAY TILE LINER AND IS IN GOOD CONDITION. DO NOT CONNECT YOUR UNIT TO AN UNLINED CHIMNEY. FLUE GASES COULD PENETRATE INTO THE HOUSE, AND THERE IS A DANGER OF EXPOSING NEARBY WOODEN MEMBERS OF THE HOUSE TO HIGH TEMPERATURE, DUE TO POSSIBLY DRIED AND CRACKED MORTAR JOINTS.

WARNING STATEMENT: THE CHIMNEY FLUE CONNECTED TO A DOVRE UNIT MUST NOT BE USED TO VENT ANY OTHER COAL, GAS, OIL, OR WOOD-BURNING APPLIANCE, AS THIS MAY ALLOW HARMFUL GASES INTO THE HOUSEHOLD AIR SUPPLY.

IF YOUR CHIMNEY NEEDS REPAIR, CALL A CHIMNEY MASON. SHOULD YOU DECIDE TO BUILD A NEW MASONRY CHIMNEY, CALL A QUALIFIED MASON AND BE SURE IT IS BUILT TO COMPLY WITH LOCAL CODES, OR NFPA #211.

FACTORY BUILT CHIMNEYS

A FACTORY BUILT CHIMNEY IS A UL LISTED RESIDENTIAL TYPE AND BUILDING HEATING APPLIANCE CHIMNEY. GENERALLY, IT IS LESS EXPENSIVE TO CONSTRUCT A FACTORY BUILT RATHER THAN A MASONRY CHIMNEY. A FACTORY BUILT CHIMNEY DOES NOT NEED A SPECIAL FOUNDATION AND CAN BE SUPPORTED BY THE ROOF OR CEILING OF YOUR HOUSE. IT CAN ALSO BE INSTALLED BY A KNOWLEDGABLE CARPENTER. FACTORY BUILT CHIMNEYS COME IN A NUMBER OF SIZES. YOUR DOVRE UNIT REQUIRES A 6" DIAMETER PIPE. BE SURE TO FOLLOW THE CHIMNEY MANUFACTURERS INSTALLATION INSTRUCTIONS.

STOVE PIPE OR CHIMNEY CONNECTOR

YOUR DOVRE UNIT NEEDS 6" SINGLE-WALL CHIMNEY TO CONNECT THE UNIT TO THE CHIMNEY FLUE. BY PLACING THE UNIT AS CLOSE TO THE CHIMNEY AS ALLOWED BY CLEARANCES TO COMBUSTIBLES, YOU WILL KEEP THE STOVEPIPE AS SHORT AND STRAIGHT AS POSSIBLE. THIS WILL ALLOW THE SMOKE AND EXHAUSTED GAS TO FLOW SMOOTHLY INTO THE CHIMNEY. HORIZONTAL SECTIONS OF STOVEPIPE SHOULD BE KEPT SHORT, AS THEY COLLECT SOOT AND CREOSOTE MORE EASILY AND, THEREFORE, REQUIRE CLEANING MORE OFTEN.

ANY HORIZONTAL RUN OF STOVEPIPE MUST HAVE A SLIGHT RISE AWAY FROM THE UNIT OF 1/4" PER FOOT OF PIPE. THIS WILL DIRECT ANY CONDENSATE FLOW BACK INTO THE UNIT WHERE IT CAN BE BURNED SAFELY.

THE STOVEPIPE MUST BE A MINIMUM THICKNESS OF 24 GAUGE BLACK OR BLUED STEEL, OR STAINLESS STEEL. NEVER USE GALVANIZED STEEL PIPE. THE CRIMPED END OF EACH PIPE MUST POINT DOWNWARD, OR TOWARD THE UNIT. THIS KEEPS ANY CONDENSATE FROM LEAKING OUT AT A PIPE JOINT. IN ADDITION, SECURE EACH PIPE JOINT WITH THREE SHEET METAL SCREWS TO PREVENT SEPARATION DURING USE.

A DOUBLE-WALL CHIMNEY CONNECTOR MAY BE USED TO REDUCE THE CLEARANCES TO THE BACKWALL. SEE THE CLEARANCE TABLE IN THE FOLLOWING SECTION.

TEMPERATURE PROBE (MODEL 300HC ONLY)

EACH UNIT IS PROVIDED WITH A TEMPERATURE PROBE AND AN ACCESS HOLE ON THE TOP PLATE OF THE UNIT. THE PROBE IS PROVIDED IN THE CORRECT LENGTH TO MONITOR THE TEMPERATURE OF THE GASES COMING OUT OF THE CATALYTIC COMBUSTOR.

CLEARANCES

IT IS IMPORTANT TO NOTE THAT SIMPLY COVERING A COMBUSTIBLE MATERIAL WITH A NON-COMBUSTIBLE MATERIAL DOES NOT OFFER SUFFICIENT HEAT PROTECTION. FOR EXAMPLE, DRY-WALL CONDUCTS THE RADIANT HEAT DIRECTLY TO THE WOOD, AND THE EFFECT IS THE SAME AS IF THE WOOD WAS UNPROTECTED.

CLEARANCES TO A COMBUSTIBLE BACKWALL MAY BE REDUCED TO 10" BY USING DOVRE BACKSHIELD, PART #300HSB, AND UL-LISTED DOUBLE WALL CONNECTOR PIPE. THE SIDE SHIELD, PART #300HSS, MAY ALSO BE USED TO REDUCE THE SIDEWALL CLEARANCES TO A MINIMUM OF 8".

THE FOLLOWING TABLE AND DIAGRAMS SHOW THE MINIMUM CLEARANCE REQUIREMENTS BETWEEN YOUR DOVRE HEIRLOOM, CHIMNEY CONNECTORS AND UNPROTECTED COMBUSTIBLE WALLS AND MATERIALS.

WARNING STATEMENT: COMPLIANCE WITH ALL MINIMUM CLEARANCES SHOWN IN THE MANUAL IS NECESSARY FOR YOUR SAFETY.

CLEARANCE TABLE & DIAGRAMS

MODEL 300H AND 300HC WITH SINGLE-WALL CHIMNEY CONNECTOR:

FLUE CONNECTION		BACKWALL	SIDEWALL	CEILING
TOP	REAR			
X		20"	22"	18"
	X	24"	22"	--

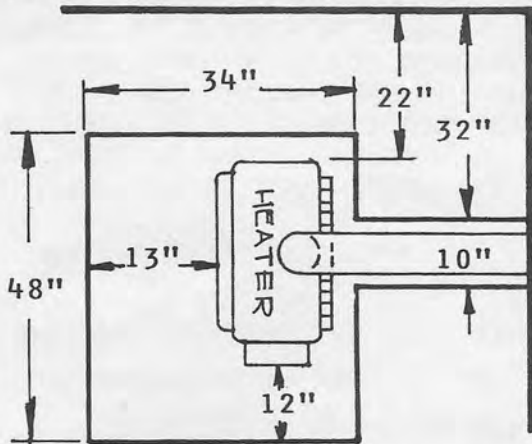
MODEL 300H AND 300HC WITH DOUBLE WALL CHIMNEY CONNECTOR AND DOVRE REAR HEAT SHIELD (PART #300HSB)

FLUE CONNECTION		BACKWALL	SIDEWALL	CEILING
TOP	REAR			
X		10"	22"	18"

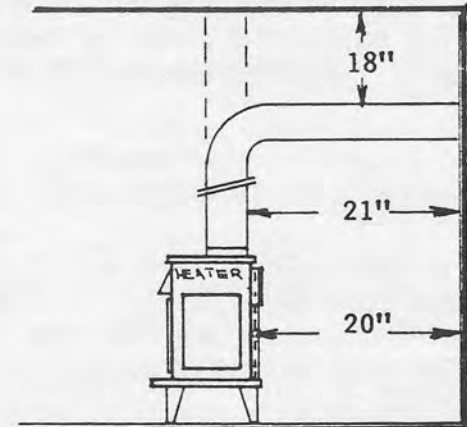
MODEL 300H AND 300HC WITH DOUBLE WALL CHIMNEY CONNECTOR WITH BOTH DOVRE REAR HEAT SHIELD (PART #300HSB) AND DOVRE SIDE HEAT SHIELD (PART #300HSS):

FLUE CONNECTION		BACKWALL	SIDEWALL	CEILING
TOP	REAR			
X		10"	8"	18"

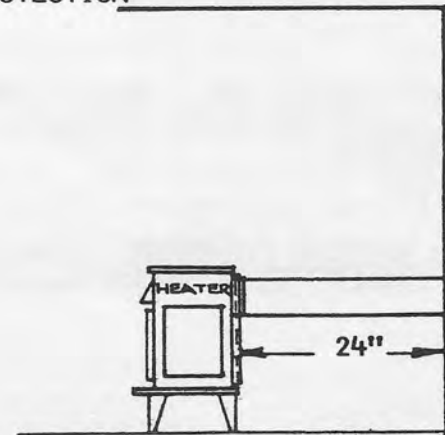
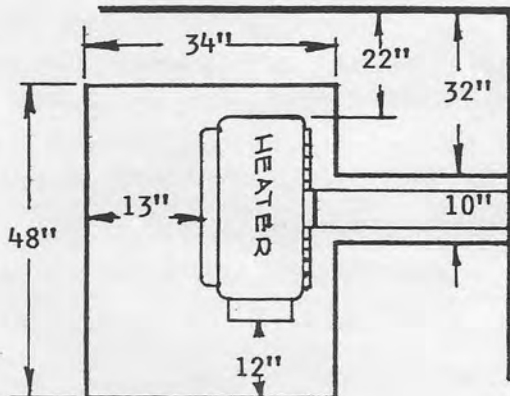
TOP FLUE CONNECTOR & FLOOR PROTECTION



CEILING CLEARANCE



REAR FLUE CONNECTOR & FLOOR PROTECTION



FLOOR PROTECTION

A COMBUSTIBLE FLOOR MUST BE PROTECTED FROM THE RADIANT HEAT GIVEN OFF BY THE UNIT AND FROM THE INEVITABLE SPARK OR FALLING EMBER. THIS INCLUDES ALMOST ANY FLOOR SURFACE. ONLY A SOLID MASONRY OR CONCRETE FLOOR ADEQUATELY COVERING THE DISTANCE AROUND YOUR UNIT IS ACCEPTABLE. A LAYER OF THIN BRICK OR CERAMIC TILE OVER A COMBUSTIBLE FLOOR IS INSUFFICIENT.

TO PROTECT YOUR FLOOR, IT IS NECESSARY TO INSTALL A FLOOR PROTECTOR OF ONE LAYER OF 3/8" NONCOMBUSTIBLE MILLBOARD HAVING A THERMAL CONDUCTIVITY OF $K=0.84$ BTU IN/FT HR F, OR AN EQUALLY THICK UL-LISTED FLOOR PROTECTOR. THE REQUIRED DIMENSIONS OF FLOOR PROTECTOR VARY ACCORDING TO THE LENGTH OF CHIMNEY CONNECTOR AS SHOWN. IF YOU CONSTRUCT YOUR OWN FLOOR PROTECTOR WITH THE ONE LAYER OF MILLBOARD, WE SUGGEST THAT IT BE COVERED BY ONE SHEET OF 24-GAUGE, OR HEAVIER, GALVANIZED SHEET METAL. THIS IT CAN BE COVERED WITH CERAMIC TILE, OR THIN BRICK, AND FRAMED TO PROTECT THE MILLBOARD AND GIVE IT A FINISHED LOOK.

ANY HORIZONTAL LENGTH OF CHIMNEY CONNECTOR PIPE MUST ALSO HAVE THE FLOOR PROTECTOR BENEATH IT AND EXTENDING 2" ON EACH SIDE OF THE PIPE. THE REQUIRED FLOOR PROTECTOR SIZE FOR MODEL 300H OR 300HC IS 48" X 34".

WALL PROTECTION

YOUR DOVRE UNIT HAS BEEN TESTED AND APPROVED FOR INSTALLATION WITHOUT ANY SPECIAL PROTECTION FOR THE WALLS AROUND IT, AS LONG AS THE NECESSARY CLEARANCES BETWEEN THE UNIT, STOVEPIPE AND WALL ARE MAINTAINED. (SEE DIAGRAM UNDER "CLEARANCES" FOR DETAIL.) HOWEVER, IF YOU WANT TO REDUCE THE REQUIRED DISTANCE BETWEEN THE UNIT AND WALLS, YOU MAY CONSTRUCT OR PURCHASE A WALL PROTECTOR. (THESE MODELS ALSO HAVE AN OPTIONAL REAR HEAT SHIELD ATTACHMENT, [PART #300HSB] WHICH REDUCES THE CLEARANCE TO AN UNPROTECTED REAR WALL TO A MINIMUM 10" FROM THE UNIT, WHEN USED IN CONJUNCTION WITH DOUBLE-WALL CONNECTOR PIPE.)

IF YOU ELECT TO PURCHASE A WALL PROTECTOR, IT MUST BE UL LISTED. UNDERWRITERS' LABORATORIES REQUIRE A MINIMUM 12" CLEARANCE BETWEEN ANY STANDARD HEATER AND WALL PROTECTOR. YOUR CHOICE OF A LISTED WALL PROTECTOR WILL DEPEND ON HOW MUCH OF A CLEARANCE REDUCTION YOU NEED. WALL PROTECTORS SPECIFY WHAT PERCENT AN UNPROTECTED CLEARANCE MAY BE REDUCED. FOR EXAMPLE, A PROTECTOR OFFERING A 2/3 OR 66% REDUCTION WILL ALLOW A 36" CLEARANCE TO BECOME 12"; AND A 1/2 OR 50% REDUCTION WILL CHANGE A 24" CLEARANCE TO 12". BE SURE TO FOLLOW THE MANUFACTURER'S INSTALLATION INSTRUCTIONS ON ANY UL LISTED WALL PROTECTOR.

SHOULD YOU DECIDE TO CONSTRUCT A WALL PROTECTOR, BE SURE IT IS APPROVED BY YOUR LOCAL BUILDING CODE OFFICIAL. THE MOST COMMON WALL PROTECTOR CONSTRUCTION IS A VENTILATED, NON-COMBUSTIBLE WALL SHIELD.

SECTION II

OPERATION

AS WAS MENTIONED IN THE INTRODUCTION, THE TWO MOST IMPORTANT FACTORS IN THE SAFETY AND RELIABILITY OF YOUR DOVRE UNIT ARE INSTALLING AND OPERATING IT CORRECTLY. SECTION II WILL EXPLAIN HOW TO USE YOUR UNIT SAFELY AND EFFICIENTLY AND MAKE IT LAST FOR YEARS.

A KEY FACTOR IN OPERATING YOUR UNIT SAFELY AND EFFICIENTLY, IS CONTROLLING CREOSOTE. CREOSOTE VARIES IN APPEARANCE FROM A DARK, HEAVY, TAR-LIKE LIQUID TO DARK FLAKES ATTACHED TO THE STOVEPIPE OR CHIMNEY FLUE LINER. IT IS HIGHLY FLAMMABLE, AND IS THE FUEL BURNT DURING A CHIMNEY FIRE. SINCE CHIMNEY FIRES ARE A FRIGHTENING EXPERIENCE AND CAN CAUSE SUBSTANTIAL DAMAGE EVEN TO A WELL-CONSTRUCTED CHIMNEY, YOUR MOST IMPORTANT JOB IN OPERATING THE UNIT IS TO CONTROL THE FORMATION OF CREOSOTE. FOR THIS REASON, WE STRONGLY RECOMMEND PURCHASING THE OPTIONAL CATALYTIC COMBUSTOR PARTS, UNLESS YOUR UNIT ALREADY INCLUDES THEM. PROPER USE OF A CATALYTIC COMBUSTOR HAS BEEN PROVEN TO DRASTICALLY REDUCE THE FORMATION OF CREOSOTE WHILE ALSO MINIMIZING EMISSIONS.

WARNING STATEMENT: CREOSOTE & SOOT -- FORMATION AND NEED FOR REMOVAL -- WHEN WOOD IS BURNED SLOWLY, IT PRODUCES TAR AND OTHER ORGANIC VAPORS, WHICH COMBINE WITH EXPELLED MOISTURE TO FORM CREOSOTE. THE CREOSOTE VAPORS CONDENSE IN THE RELATIVELY COOL CHIMNEY FLUE OF A SLOW-BURNING FIRE. AS A RESULT, CREOSOTE RESIDUE ACCUMULATES ON THE FLUE LINING. WHEN IGNITED, THIS CREOSOTE MAKES AN EXTREMELY HOT FIRE.

THE CHIMNEY CONNECTOR AND CHIMNEY SHOULD BE INSPECTED TWICE MONTHLY DURING THE HEATING SEASON TO DETERMINE IF A CREOSOTE BUILD-UP HAS OCCURRED.

IN MOST INSTANCES, CREOSOTE IS FORMED BY KEEPING THE TEMPERATURE IN THE FIREBOX TOO LOW. SINCE THE TEMPERATURE IN THE STOVE IS A DIRECT RESULT OF HOW MUCH AIR IS ALLOWED IN TO FEED THE FIRE, THE EASIEST WAY TO AVOID CREOSOTE IS TO ALWAYS BURN A HOT FIRE. OF COURSE, THIS MEANS SETTING THE DRAFT CONTROLS NEAR OR AT THE FULL-OPEN POSITION. SINCE IT IS NOT ALWAYS POSSIBLE TO KEEP A HOT FIRE OVER AN EXTENDED PERIOD OF HOURS, SAY OVERNIGHT OR WHILE AWAY DURING THE DAY, ANOTHER METHOD MAY BE USED.

IF YOU HAVE TO BURN YOUR UNIT AT A LOW AIR SETTING, THEN YOU SHOULD BURN OUT THE CREOSOTE FORMED ON A DAILY BASIS. BY BURNING THE CREOSOTE DAILY, YOU CAN MINIMIZE THE POTENTIAL HAZARD. THIS IS DONE BY RUNNING THE UNIT WITH THE DRAFT CONTROLS FULL-OPEN FOR 20-25 MINUTES BEFORE AND AFTER EACH LONG BURN. BY BURNING THIS BRISK HOT FIRE, YOU WILL IGNITE THE CREOSOTE THAT HAS FORMED AND BURN IT OUT BEFORE IT HAS A CHANCE TO BUILD UP TO A DANGEROUS LEVEL.

IT IS ALSO IMPORTANT TO MENTION THAT AN ADVANTAGE OF AN AIRTIGHT DOVRE UNIT, OVER THE OLDER CAST IRON NON-AIRTIGHT STOVES WE HAVE SEEN EARLIER THIS CENTURY, IS THE DOVRE'S ABILITY TO GOVERN THE AMOUNT OF AIR NEEDED TO KEEP THE FIRE HOT, WHILE NOT ALLOWING IN EXCESS AIR TO COOL THE FIREBOX. THIS IS THE FIRST OF THREE MAJOR FEATURES PROVIDED BY A DOVRE UNIT WHICH CONTRIBUTES TO ITS HIGH EFFICIENCY. HOWEVER, IT REQUIRES GOOD JUDGEMENT BY THE OPERATOR TO PERFORM TO ITS HIGH EFFICIENCY. TO LET IN TOO MUCH AIR TO AN OVERLOADED FIREBOX CAN RESULT IN A VERY HOT FIRE WHICH IS DANGEROUS AND IS BURNING TOO FAST TO LET THE CAST IRON PULL MOST OF THE BTU'S, OR HEAT, INTO THE ROOM. TOO MUCH HEAT IS THEN LOST UP THE CHIMNEY AND EFFICIENCY IS REDUCED.

WARNING STATEMENT: DO NOT OVERFIRE YOUR DOVRE UNIT. IF ANY PART OF THE APPLIANCE STARTS TO GLOW, YOU ARE OVERFIRING. STOP ADDING FUEL, CLOSE THE DOORS TIGHTLY, AND CLOSE DRAFT CONTROLS COMPLETELY UNTIL THE GLOWING HAS STOPPED.

AS I AM SURE YOU ARE BEGINNING TO REALIZE, BY USING COMMON SENSE IN REGULATING THE AIR FLOW TO THE UNIT YOU CAN ELIMINATE MOST OF THE PROBLEMS CAUSED BY CREOSOTE. WE HAVE OTHER TIPS FOR MANAGING THIS PROBLEM IN THE "GENERAL MAINTENANCE" PORTION OF THIS MANUAL.

THE OTHER TWO FEATURES OF A DOVRE UNIT WHICH MAKE HIGH FUEL EFFICIENCY POSSIBLE, ARE THE SECONDARY COMBUSTION CHAMBER AND THE CAST IRON BODY. YOUR DOVRE UNIT HAS A CAST IRON BAFFLE WHICH IS DESIGNED TO LENGTHEN THE PATH OF ESCAPING SMOKE AND GASES BY FORMING A SECONDARY COMBUSTION CHAMBER. THIS FEATURE IS CRITICAL TO ACHIEVING EFFICIENT FUEL CONSUMPTION. BY FORCING THE SMOKE FORWARD IN THE FIRE CHAMBER, THEN DIRECTING IT THROUGH THE UPPER COMBUSTION AREA WHERE SECONDARY AIR IS INTRODUCED, A MORE COMPLETE COMBUSTION OF FUEL PARTICLES AND GASES IS ACCOMPLISHED. NEVER OPERATE YOUR DOVRE UNIT WITH THE BAFFLE REMOVED.

BURNING THE GASES GIVEN OFF DURING FIRING IS ESPECIALLY IMPORTANT FOR TWO REASONS. FIRST, THIS GAS CAN CONTAIN AS MUCH AS 50% OF THE BTU VALUE IN THE FUEL, AND MUST BE THOROUGHLY CONSUMED BEFORE A STOVE CAN REACH MAXIMUM EFFICIENCY. SECONDLY, GAS ALLOWED TO ESCAPE UP THE CHIMNEY WILL LIKELY CONDENSE BEFORE IT LEAVES THE CHIMNEY. THIS CONDENSATE, OR CREOSOTE, IF ALLOWED TO BUILD UP, IS DANGEROUS, AS PREVIOUSLY MENTIONED.

WARNING STATEMENT: DO NOT BURN LARGE QUANTITIES OF PAPER IN YOUR UNIT. THIS WILL CAUSE AN EXTREMELY HOT FIRE THAT COULD IGNITE ANY CHIMNEY CREOSOTE, OR CAUSE CREOSOTE TO FORM IN THE CHIMNEY. IN ADDITION, NEVER BURN TRASH, PLASTIC OR OTHER CHEMICALS IN YOUR UNIT WHICH MAY DO CORROSIVE DAMAGE TO THE CHIMNEY FLUE LINING, OR CAUSE DANGEROUS GASES TO BE RELEASED INTO THE AIR. AVOID BURNING WET OR GREEN WOOD AND DRIFTWOOD WHICH CAN CAUSE CREOSOTE. USE SEASONED WOOD (PREFERABLY TWO YEARS).

WARNING STATEMENT: A SMOKE ALARM IS RECOMMENDED FOR THE ROOM IN WHICH THE UNIT IS LOCATED. IN THE EVENT OF A CHIMNEY FIRE, IMMEDIATELY:

- A. CLOSE THE UNIT DOORS AND DRAFT CONTROLS COMPLETELY
- B. CALL THE FIRE DEPARTMENT
- C. EVACUATE THE HOUSE

AS PREVIOUSLY MENTIONED, THE THIRD MAJOR FEATURE OF A DOVRE UNIT IS ITS PREMIUM, QUALITY CAST IRON BODY. CAST IRON HAS BEEN USED TO HOLD FIRE FOR SEVERAL HUNDRED YEARS IN EUROPE. A PRIMARY REASON FOR CHOOSING TO BUILD OUR UNITS WITH CAST IRON IS ITS PROVEN DURABILITY. UNLIKE COMMON PLATE STEEL, DOVRE CAST IRON WILL EXPAND AND CONTRACT WITHOUT LOSING ITS ORIGINAL SHAPE OR STRENGTH, WHEN REPEATEDLY EXPOSED TO THE TEMPERATURES OF SOLID FUEL BURNING. BECAUSE IT DOES NOT WARP OR CHANGE SHAPE, OUR CAST IRON IS IDEALLY SUITED TO MAINTAINING THE REQUIRED AIR-TIGHT CONSTRUCTION NECESSARY IN A DOVRE UNIT.

ANOTHER CAST IRON ADVANTAGE IS ITS SUPERIOR ABILITY TO EFFECTIVELY TRANSMIT THE HEAT FROM THE FIRE CHAMBER INTO THE SURROUNDING AREA. THIS CHARACTERISTIC OF MINIMAL HEAT RESISTANCE AND EVEN TEMPERATURE DISPERSAL IS AS IMPORTANT TO A DOVRE UNIT AS IT HAS BEEN TO OLD FASHIONED CAST IRON FRYING PANS.

WARNING STATEMENT: SINCE THE OUTSIDE SURFACE OF THE CAST IRON DOORS BECOMES VERY HOT, YOU SHOULD USE A GLOVE OR OTHER HAND PROTECTION WHEN OPERATING THE APPLIANCE. THIS WILL ELIMINATE ACCIDENTAL SKIN BURNS. BE SURE TO WARN CHILDREN TO NEVER TOUCH THE UNIT WHEN IT IS IN OPERATION WITHOUT PROPER SKIN PROTECTION.

KEEP ALL HOUSEHOLD COMBUSTIBLES FAR AWAY FROM THE DOORS.

CAST IRON IS ALSO LIGHTER THAN PLATE STEEL USED FOR STOVE CONSTRUCTION. THIS HELPS MAKE INSTALLATION OF A DOVRE UNIT A LITTLE EASIER THAN MANY OTHER UNITS.

TO INSURE YOUR CAST IRON PROVIDES THE YEARS OF SATISFACTION IT IS CAPABLE OF, YOU MUST ALSO REMEMBER THAT IT IS A SLIGHTLY BRITTLE METAL. IT CANNOT WITHSTAND THE SHOCK OF A SHARP BLOW OR A SUDDEN TEMPERATURE CHANGE, SUCH AS POURING WATER ON A HOT STOVE. PLACING AN ICE-LADEN LOG AGAINST THE HOT CAST IRON WILL ALSO CAUSE THERMAL SHOCK AND CRACK THE METAL. ADDITIONALLY, CONTACT WITH WATER WILL POSSIBLY CAUSE RUST TO FORM. SHOULD THIS OCCUR, CLEAN THE METAL SURFACE AND COVER WITH TOUCH UP PAINT WHEN THE UNIT IS NOT OPERATING.

TO MORE QUICKLY ACHIEVE BEST RESULTS OPERATING YOUR HEATER, WE STRONGLY RECOMMEND THE USE OF A STOVE TOP SURFACE THERMOMETER. THIS THERMOMETER HELPS YOU MONITOR HEAT OUTPUT, SO YOU CAN QUICKLY LEARN THE EFFECT OF DIFFERENT AIR CONTROL SETTINGS, AND THE RELATIONSHIP BETWEEN STOVE TEMPERATURE AND ROOM TEMPERATURE. IN ADDITION, THE MODEL 300HC HAS A CATALYTIC PROBE THERMOMETER (CPT) WHICH TELLS YOU HOW THE CATALYTIC COMBUSTOR IS WORKING. THIS INDICATOR IS CRITICAL TO THE DAILY OPERATION OF THE MODEL 300HC.

THE MODEL 300HC ALSO CONTAINS A DAMPER BYPASS SYSTEM. THE BYPASS DAMPER AND CATALYTIC COMBUSTOR WORK TOGETHER. THE BYPASS MUST BE OPEN WHEN THE COMBUSTOR IS NOT HOT ENOUGH TO IGNITE (CPT 400° TO 500° F), AND ANYTIME YOU OPEN A DOOR ON THE UNIT. OTHERWISE, WHENEVER THE CPT READING IS OVER 400° TO 500° F AND THE HEATER DOORS ARE CLOSED, THE BYPASS DAMPER SHOULD BE CLOSED FOR BEST EFFICIENCY AND EMISSION RESULTS.

FIRING

MODEL 300H - (HEIRLOOM WITHOUT CATALYTIC COMBUSTOR)

BUILDING FIRST WOOD FIRE:

OPEN DOOR AND BUILD SMALL FIRE USING PAPER AND DRY KINDLING. AFTER LIGHTING THE FIRE, CLOSE THE DOOR AND OPEN ALL DRAFT CONTROLS TO THE FULL-OPEN POSITION. THEN GRADUALLY ADD TWO OR THREE MEDIUM SIZE LOGS (ABOUT 2"-4" DIAMETER) TO THE FIRE AFTER THE DRAFT HAS BEEN STABILIZED.

WHEN A BED OF COALS HAS BEEN ESTABLISHED AND THE UNIT IS DELIVERING THE FULL AMOUNT OF HEAT POSSIBLE, THE AMOUNT OF DRAFT CAN BE REDUCED TO ACHIEVE THE DESIRED AMOUNT OF HEAT OUTPUT.

INCIDENTALLY, DURING THE FIRST FIRING YOUR DOVRE UNIT WILL GIVE OFF A SLIGHTLY UNPLEASANT ODOR AS THE HIGH TEMPERATURE PAINT CURES. DON'T BE ALARMED, AS THIS WILL ONLY LAST FOR ABOUT 30 TO 60 MINUTES AFTER THE SURFACE TEMPERATURE ON THE STOVE REACHES 400° F.

DAILY USE:

BUILD THE FIRE IN THE SAME MANNER AS THE FIRST FIRE. ALLOW THE UNIT TO BURN VIGOROUSLY FOR 20 TO 25 MINUTES AFTER EACH OVERNIGHT BURN. THIS WILL HELP REMOVE ANY CREOSOTE FORMED DURING THE LOW DRAFT CYCLE.

ADDING FUEL:

USE THE ASH SCRAPER PROVIDED WITH YOUR UNIT TO SEPARATE HOT COALS FROM THE ASH. BY PUSHING THE ASH TO THE REAR OF THE FUEL BED AND PULLING THE HOT COALS FORWARD TOWARD THE AIR INLET, YOU WILL BE ABLE TO QUICKLY AND EASILY RECHARGE THE FIRE. ADD 2 OR 3 LOGS, CLOSE THE LOADING DOOR AND COMPLETELY OPEN THE DRAFT CONTROL.

MODEL 300HC (HEIRLOOM WITH CATALYTIC COMBUSTOR) AND MODEL 300H WITH OPTIONAL H-CAT ACCESSORY KIT

BUILDING FIRST WOOD FIRE:

OPEN THE DOOR AND THE BY-PASS DAMPER CONTROL (TURNED TO UP POSITION). BUILD SMALL FIRE USING PAPER AND DRY KINDLING. AFTER LIGHTING THE FIRE, CLOSE THE DOOR AND OPEN THE DRAFT CONTROLS (BOTH FRONT AND SIDE) TO THE FULL-OPEN POSITION.

ONCE A 1"-2" BED OF COALS HAS BEEN ESTABLISHED, ADD 2 OR 3 MEDIUM SIZE LOGS (ABOUT 2"-4" DIAMETER), KEEPING THE BY-PASS DAMPER AND DRAFT INLETS OPEN. NORMALLY AFTER 15 TO 30 MINUTES AND THE CATALYST TEMPERATURE IS 400° TO 500° F, THE CATALYST WILL BE OPERATING. THEN CLOSE THE BY-PASS DAMPER.

TO REDUCE THE AMOUNT OF HEAT PRODUCED BY YOUR UNIT, START BY CLOSING THE SIDE DRAFT INLET AND THEN ADJUSTING THE FRONT DRAFT CONTROLS. BY CLOSING THE FRONT DRAFT INLETS AND ADJUSTING THE SIDE DOOR DRAFT INLET TO THE 1-1/4 SETTING, YOU WILL CONTROL THE UNIT TO MAINTAIN A FIRE OF APPROXIMATELY 11,000 BTU/HR AND THE TEMPERATURE WILL BE ABOUT 200° TO 250° F.

SETTING THE SIDE DRAFT CONTROL TO 1 WILL MAINTAIN A FIRE WITH THE APPROXIMATE HEAT OUTPUT OF 17,000 BTU/HR, WITH A TEMPERATURE READING OF 300° TO 400° F.

TEMPERATURE PROBE - DURING START UP OF YOUR DOVRE HEIRLOOM AND DURING THE REFUELING CYCLES, THE TEMPERATURES SHOWN ON YOUR CATALYTIC PROBE THERMOMETER (CPT) WILL TELL YOU HOW YOUR CATALYST IS OPERATING AND WHEN THE BY-PASS DAMPER MAY BE CLOSED. THE LOCATION OF THE CPT PROVIDES THE MOST ACCURATE READING, SINCE IT IS DIRECTLY ABOVE THE CATALYTIC COMBUSTOR.

DURING START UP OR REFUELING, THE BY-PASS DAMPER IS OPEN. WHEN THE CPT REACHES 400° TO 500° F, THE BY-PASS DAMPER MAY BE CLOSED. AT THIS POINT, THE CATALYTIC COMBUSTOR IS HOT ENOUGH TO FUNCTION.

THE INFORMATION FROM A SURFACE THERMOMETER IS VERY HELPFUL IN ADJUSTING THE DRAFT INLETS FOR THE DESIRED HEAT OUTPUT. YOU SHOULD REMEMBER THAT THE TEMPERATURES AND AIR INLET SETTINGS WILL VARY DEPENDING ON THE TYPE OF WOOD, MOISTURE CONTENT OF THE WOOD, AND THE DRAFT OF YOUR CHIMNEY. AS YOU BECOME FAMILIAR WITH YOUR UNIT, YOU WILL DETERMINE THE BEST AMOUNT OF FUEL AND DRAFT SETTING FOR THE HEATING REQUIREMENTS OF YOUR HOME.

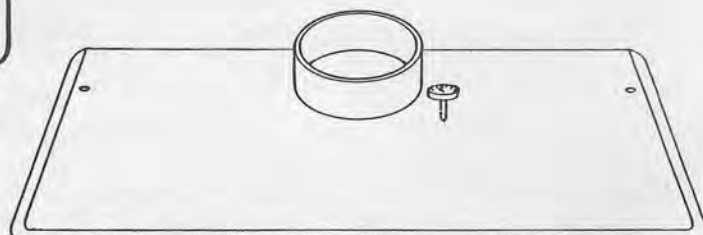
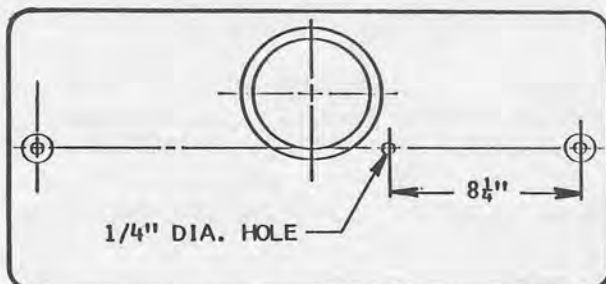
FOR MAXIMUM HEAT OUTPUT, OPEN THE SIDE DRAFT CONTROL COMPLETELY AND THE FRONT DRAFT CONTROLS TO FULL-OPEN. THIS WILL ALLOW THE UNIT TO PRODUCE OVER 43,000 BTU/HR WITH SURFACE TEMPERATURES OF 600° TO 900° F.

WARNING STATEMENT: DO NOT OPERATE YOUR UNIT FOR EXTENDED PERIODS OF TIME WITH SURFACE TEMPERATURES HIGHER THAN 900° F, OR CPT TEMPERATURES OVER 1800° F. YOU MAY DAMAGE THE CATALYST AND THE CASTINGS.

DAILY USE:

BUILD THE FIRES IN THE SAME MANNER AS THE FIRST FIRE - ALWAYS REMEMBERING TO OPEN THE BY-PASS DAMPER BEFORE OPENING THE FEED DOOR. ALLOW THE FIRE TO BURN VIGOROUSLY FOR ABOUT 15 TO 30 MINUTES TO IGNITE THE COMBUSTOR. THE COMBUSTOR IGNITES AT ABOUT 400° TO 500° F CPT AND BEGINS TO WORK. ONCE THE COMBUSTOR IS OPERATING, THE BY-PASS DAMPER CONTROL CAN BE CLOSED AND THE DRAFT INLETS ADJUSTED FOR THE DESIRED AMOUNT OF HEAT.

DIAGRAM OF INSTALLATION AND PLACEMENT OF TEMPERATURE PROBE



WARNING STATEMENT: NEVER USE GASOLINE, GASOLINE TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS APPLIANCE. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IT IS IN USE.

USE CAUTION WHEN FILLING YOUR UNIT WITH FUEL. NEVER LOAD FUEL WHEN THE FIRE IS BURNING RAPIDLY.

FUELS

THIS DOVRE HEATER IS DESIGNED TO BURN CORD WOOD. THE USE OF OTHER FUELS WILL SHORTEN THE LIFE AND PERFORMANCE OF THE CATALYTIC COMBUSTOR. DO NOT BURN TRASH OR GARBAGE, ARTIFICIAL LOGS, COAL, CHEMICAL STARTERS, DRIFTWOOD, TREATED OR PAINTED WOOD. THESE ALL CONTAIN CHEMICALS THAT MAY CAUSE THE CATALYST TO STOP WORKING PROPERLY.

WOOD IS SOLD BY THE CORD, WHICH IS A PILE OF FOUR-FOOT LOGS STACKED FOUR-FEET HIGH AND EIGHT-FEET LONG, OR 128 CUBIC FEET. A CORD OF HARDWOOD WILL GENERALLY WEIGH ABOUT TWO TONS. OBVIOUSLY, THE CORD LOGS MUST BE CUT TO FIT YOUR DOVRE UNIT. THE LOG LENGTH RECOMMENDED FOR A DOVRE HEIRLOOM 300H OR 300HC IS 22"-24".

IF PURCHASING WOOD, LOOK FOR HARDWOOD SUCH AS HICKORY, OAK, BEECH, ROCK MAPLE, AND BLACK WALNUT, AS THEY CONTAIN MORE BTU VALUE PER SQUARE INCH THAN SOFTER WOODS LIKE COTTONWOOD, SYCAMORE, ELM AND PINE.

ASH HANDLING

LEFT UNATTENDED, THE ASH BUILD-UP WILL EVENTUALLY RESTRICT THE AIR FLOW TO THE FIRE, WHICH WILL CAUSE THE FIRE TO DIE. DURING CONTINUOUS USAGE, THE ASH SHOULD BE REMOVED EVERY FEW DAYS.

ASHES MUST BE DISPOSED OF CAREFULLY. THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) SUGGESTS THAT ALL ASHES BE PLACED IN A METAL CONTAINER WITH A TIGHT FITTING LID. IT IS CRITICAL TO REMEMBER THAT WHILE YOU MAY NOT SEE ANY RED COALS IN THE ASHES BEING REMOVED, IT IS MOST LIKELY THERE STILL IS SOME RESIDUAL BURNING OCCURRING UNLESS THE FIRE HAS BEEN COLD FOR AT LEAST 24 HOURS.

DISPOSAL OF ASHES

ASHES SHOULD BE PLACED IN A METAL CONTAINER WITH A TIGHT FITTING LID. THE CLOSED CONTAINER OF ASHES SHOULD BE PLACED ON A NON-COMBUSTIBLE FLOOR OR ON THE GROUND, WELL AWAY FROM ALL COMBUSTIBLE MATERIALS, PENDING FINAL DISPOSAL. IF THE ASHES ARE DISPOSED OF BY BURIAL IN SOIL OR OTHERWISE LOCALLY DISBURSED, THEY SHOULD BE RETAINED IN THE CLOSED CONTAINER UNTIL ALL CINDERS HAVE THOROUGHLY COOLED.

CLEANING AND MAINTENANCE

KEEPING YOUR DOVRE UNIT CLEAN REQUIRES LITTLE EFFORT. AN OCCASSIONAL DUSTING WITH A BRUSH IS A GOOD IDEA. REGULARLY CHECK THE DOOR GASKETS FOR ANY BITS OF WOOD THAT MIGHT BE LODGED IN THE FABRIC AND CAUSE DAMAGE.

AT THE END OF THE HEATING SEASON, IT IS RECOMMENDED THAT YOU REMOVE THE SOOT IN THE UNIT WITH A WIRE BRUSH AND INSPECT THE JOINTS AND INNER CAST IRON PARTS FOR DAMAGE. THIS IS ALSO A GOOD TIME TO TOUCH UP THE EXTERIOR PAINT IF NEEDED. SEE YOUR DOVRE DEALER FOR TOUCH-UP PAINT.

FREQUENT INSPECTION OF THE CONNECTOR PIPE AND CHIMNEY SYSTEM ARE IMPORTANT. YOU MAY ELECT TO DO THE CLEANING OF THE CHIMNEY YOURSELF, OR USE A PROFESSIONAL CHIMNEY SWEEP. IF YOU ARE NOT EXPERIENCED IN THIS AREA, WE RECOMMEND HAVING A PROFESSIONAL CHIMNEY SWEEP INSPECT AND CLEAN YOUR CHIMNEY.

YOU MAY NOTICE THE BUILD UP OF SOOT ON YOUR GLASS DOORS AFTER A LONG BURN CYCLE. THIS SOOT WILL BURN OFF DURING A HOT BRISK FIRING PERIOD, WHICH ALWAYS IS RECOMMENDED AFTER AN OVERNIGHT BURN. SHOULD YOU CARE TO CLEAN THE GLASS WITHOUT FIRING THE STOVE, WE RECOMMEND THE USE OF COARSE STEEL WOOL OR SPRAY-ON OVEN CLEANER. JUST SPRAY IT ON AND WIPE IT OFF WITH A SOFT CLOTH. BE SURE THE UNIT DOESN'T CONTAIN A FIRE, AS THE OVEN CLEANER IS FLAMMABLE.

TO REPLACE A BROKEN GLASS, CONTACT YOUR DOVRE DEALER FOR ASSISTANCE. DOVRE UNITS USE ONLY THE HIGHEST QUALITY CERAMIC GLASS AND ANY REPLACEMENT GLASS MUST ALSO BE MADE OF THIS MATERIAL.

TROUBLE SHOOTING

BACK PUFFING - THIS CONDITION IS USUALLY CAUSED BY WEAK DRAFT OR STRONG GUST OF WIND. DRAFT WILL BE WEAKER DURING MILD TEMPERATURES THAN ON COLD DAYS. TO CORRECT A WEAK DRAFT, KEEP THE LOADING DOOR CLOSED AND DRAFT CONTROLS OPEN SO A HOT FIRE CAN BE GENERATED, WHICH WILL HEAT THE CHIMNEY AND STRENGTHEN THE DRAFT. BE SURE THERE ISN'T ANY OBSTRUCTION IN THE CHIMNEY.

DOESN'T BURN OVERNIGHT - THIS IS OFTEN CAUSED BY BURNING TOO LITTLE, WOOD TOO SMALL IN DIAMETER, OR TOO SOFT, WHICH BURNS TOO RAPIDLY. LOAD WITH FULL SIZE HARDWOOD, AND BE SURE TO REDUCE THE DRAFT CONTROLS TO 1/3 OR LESS FOR OVERNIGHT BURNS. ALSO, CHECK TO SEE THAT GASKETS ARE SEALING WHEN THE DOOR IS CLOSED.

WARRANTIES

CATALYTIC COMBUSTOR

THE CATALYTIC COMBUSTOR IS WARRANTED DIRECTLY BY THE COMBUSTOR MANUFACTURER. THIS WARRANTY IS EXPLAINED IN THE INFORMATION SUPPLIED WITH YOUR DOVRE MODEL 300HC OR WITH THE H-CAT CATALYTIC COMBUSTOR PACKAGE.

DOVRE LIMITED 10 YEAR WARRANTY

DOVRE HEATERS ARE MADE OF PREMIUM QUALITY CAST IRON AND CONSTRUCTION MATERIALS. YOUR UNIT IS WARRANTED IN NORMAL HOUSEHOLD USE IN ACCORDANCE WITH THE INSTALLATION AND OPERATING MANUAL AGAINST DEFECTS IN WORKMANSHIP OR MATERIAL FOR A PERIOD OF 10 YEARS FROM THE DATE OF PURCHASE.

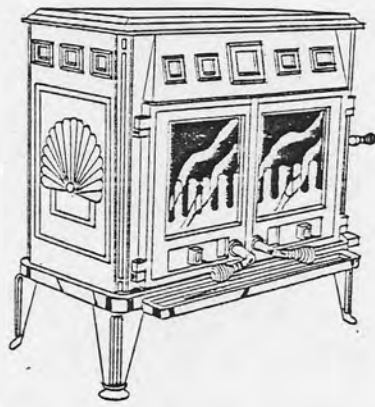
THIS WARRANTY IS EXTENDED TO ONLY THE ORIGINAL PURCHASER FROM AN AUTHORIZED DOVRE DEALER, AS VERIFIED BY OUR RECEIPT OF THE ENCLOSED WARRANTY REGISTRATION CARD.

THE WARRANTY DOES NOT COVER DAMAGE CAUSED BY ABUSE OR IMPROPER OPERATION. PARTS THAT MAY WEAR OUT SOONER, SUCH AS GRATES, ASH PAN, INNER WALLS, GASKETS, GLASS AND PAINT, ARE NOT COVERED BY THE WARRANTY.

THIS WARRANTY DOES NOT COVER PICK UP, DELIVERY OR HOUSE CALLS. HOWEVER, IF YOU RETURN A PART COVERED BY THIS WARRANTY TO AN AUTHORIZED DOVRE DEALER, FREIGHT PREPAID, WE WILL EITHER REPAIR OR REPLACE THE PART AT OUR OPTION.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. THE WARRANTY DOES NOT COVER INCIDENTAL OR INCONSEQUENTIAL DAMAGES, AS ALLOWED BY YOUR STATE LAW.

DOVRE, INC.
401 HANKES AVE
AURORA IL 60505
(312) 844-3353
OUTSIDE OF ILLINOIS, 1-800-DOVRE US



STOVE GLASS CARE TIPS

- A. WHEN STARTING FROM COLD, THE GLASS WILL CLOUD UP DUE TO CONDENSATION, UNLESS ALLOWED TO PREHEAT DURING THE FIRST 10-15 MINUTES OF FIRING. TO PREHEAT GLASS, ALLOW GLASS DOORS TO REMAIN SLIGHTLY AJAR.
- B. THE AIRWASH WORKS BEST WHEN FRONT SLIDE DRAFT CONTROLS ARE USED TO CONTROL BURN RATE, AND THE SIDE DOOR SPIN DRAFT IS USED MINIMALLY.
- C. FUEL DRYNESS, AS WELL AS LEAVING A SPACE BETWEEN THE WOOD AND GLASS, IS NECESSARY FOR KEEPING THE GLASS CLEAN. WET WOOD PRODUCES TOO MUCH HUMIDITY AND WILL CAUSE THE GLASS TO DARKEN. A BURNING LOG TOUCHING THE GLASS WILL ALSO CAUSE DARKENING.
- D. IF GLASS DOES GET DIRTY, WE RECOMMEND THE USE OF SPECIAL GLASS CLEANERS, WHICH ARE AVAILABLE FROM YOUR WOODSTOVE DEALER, OR OVEN CLEANER. YOU MAY ALSO CHOOSE TO USE COARSE STEEL WOOL DRY, OR WET WITH ABOVE-MENTIONED CLEANERS. WINDOW CLEANING RAZOR BLADES ALSO WORK WELL. THE CERAMIC GLASS IS EXTREMELY TOUGH AND CAN TAKE CLEANING FROM ANY OF THE ABOVE TO REGAIN LIKE-NEW APPEARANCE.
- E. WHEN CLEANING THE GLASS, WE RECOMMEND REMOVING THE DOORS AND LAYING THEM FLAT. THIS MAKES IT MUCH EASIER TO CONTROL YOUR TOOL, AND IT ALSO ALLOWS YOU TO PREVENT LIQUID CLEANER FROM BEING ABSORBED BY THE GASKETING AROUND THE GLASS.



300H PARTS LIST

- ___ 1. LEGS (4)
- ___ 2. LARGE ASH LIP (FRONT)
- ___ 3. SMALL ASH LIP (SIDE)
- ___ 4. FRONT DOOR HANDLE ASSEMBLY (2):
 - ___ M6X16 HEX HEAD BOLT
 - ___ M6X35 HEX HEAD BOLT
 - ___ Ø6 WASHERS
 - ___ 6798 SAW TOOTH WASHER
 - ___ CAST IRON LATCH WITH SPRING HANDLE
- ___ 5. COVER PLATE ASSEMBLY:
 - ___ RETAINER BAR
 - ___ M6X30 HEX HEAD BOLT
 - ___ Ø6 WASHERS (2)
- ___ 6. FLUE COLLAR
- ___ 7. SMALL FEED-DOOR BRASS SPRING HANDLE (SIDE DOOR)
- ___ 8. ASH SCRAPER
- ___ 9. HARDWARE IN PLASTIC BAG, AS FOLLOWS:
 - ___ M8X12 FLAT HEAD SCREWS (4)
 - ___ M8X25 FLAT HEAD SCREWS (2)
 - ___ M6X35 THREADED PIN & PLASTIC KNOB
 - ___ M8 NUTS (2)
 - ___ Ø8 WASHERS (2)
 - ___ Ø6 WASHERS (4)
 - ___ M6X12 PAN HEAD BOLTS (4)
- ___ 10. INSTALLATION AND OPERATION MANUAL WITH WARRANTY CARD

PACKAGED BY: L. D.

The Heirloom™ Stove

Energy efficiency now comes with a clean-burn choice.

The Heirloom hearth stove is made of premium cast iron, long recognized as the best radiant heat material available for stoves.

The Heirloom has a heating capacity of over 60,000 BTU/hour. This is considered enough to provide the primary heat source for 1,000 square feet of living space with good room-to-room air circulation.

The model 300 HC is a state-of-the-art controlled combustion wood stove. It is specially designed to meet the 1988 clean burning standards set by Oregon, Colorado and the U.S. Environmental Protection Agency. Noncatalytic Model 300 H easily converts to clean burn if you choose to add the catalytic combustor and bypass system option later.

The Heirloom can be located anywhere in a room, as a distinctive and separate accent. Simply allow for

clearances and vent into wall or ceiling chimney. Use the optional heat shield for even closer clearance to combustible walls—10" at the back wall, 8" to the side wall. The compact stove can also be placed on a standard 16" deep hearth for venting into an existing fireplace chimney.



4' - 6" stainless \$34.00
 3' " " - \$28.00
 stainless cap - \$29.75
 top support \$17.85



A New Generation in Fireplace Technology