



21 SAYLORS POND ROAD
WRIGHTSTOWN, NJ 08562
609-723-4450

CERTIFICATE IDENTIFICATION

Date Issued: 04/06/2009

Control #: 220

Permit #: 20090011

Block: 601 Lot: 50

Qualification
Code: SOMBRERO

Home Warranty No:
Type of Warranty Plan:

Work Site Location: 501-B EAST MAIN STREET
WRIGHTSTOWN

Use Group:
Maximum Live Load:

[] State [] Private
A-3

Owner in Fee: EL SOMBRERO MEXICAN RESTAURANT
Address: 501-B EAST MAIN STREET
WRIGHTSTOWN NJ 08562

Construction Classification:
Maximum Occupancy Load:

Telephone: 609 744-2020

Certificate Exp Date:
Description of Work/Use:

Agent/Contractor:

NEW RESTAURANT SIGN: 36 SQ. FT
ONE-SIDED ILLUMINATED SIGN W/LEXAN FACES AFFIXED TO FRONT FACIA
CONNECTION TO BE MADE BY ELECTRICIAN DOING ALL ELECTRICAL
Update Desc. of WkUse:

Address: 12 FIVE POINTS ROAD
FREEHOLD NJ 07728

Telephone: 732 410-4651

Lic. No./ Bldrs. Reg.No.: 11616A

Social Security No.:

Federal Emp. No.: 20-1731568

[] CERTIFICATE OF OCCUPANCY

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

[X] CERTIFICATE OF APPROVAL

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

[] TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE

If this is a temporary Certificate of Occupancy or Compliance, the following conditions must be met no later than or will be subject to fine or order to vacate:

[] CERTIFICATE OF CLEARANCE-LEAD ABATEMENT 5:17

This serves notice that based on written certification, lead abatement was performed as per NJAC 5:17, to the following extent:

[] Total removal of lead-based paint hazards in scope of work
[] Partial or limited time period (____ years); see file

[] CERTIFICATE OF CONTINUED OCCUPANCY

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

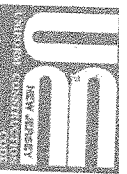
[] CERTIFICATE OF COMPLIANCE

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

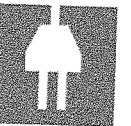
Harry W. Case
Construction Official
U.C.C 260 (rev. 5/03)

1 - APPLICANT 2 - OFFICE 3 - TAX ASSESSOR

Fees: \$0.00
Paid [X] Check No.:
Collected by: jp



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CAL UTILITY DIG NO. 1-800-272-1000.

Block **601** Lot **50** Qualification Code **SOMBRERO**

Work Site Location **501B E Main St Restaurant**

Owner in Fee **JULIO ZUNIGA**

Address **PO BOX 424**

WRIGHTSTOWN NJ

Tel ()

Contractor

Address

AA Electrical Contractors & Design, Inc.
12 Five Points Road

Tel () FAX () **Freehold, NJ 07728**

Contractor License No. **732-410-4651** Tele: **732-410-4652**

Federal Emp. No. **Lic # 11616A** ID # **201-731-568**

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed Other

Building Occupied as **Restaurant** Temporary Other

Est. Cost of Elec. Work \$ **15000** Utility Co. **JCP&L**

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☐ No Plans Required

Joint Plan Review Required: Type: Failure Failure Approval Initial

☐ Building ☐ Plumbing

☐ Fire ☐ Elevator

☒ Elec. Plans Approved

Date: **2/1/09**

Approved by: **[Signature]**

SUBCODE APPROVAL

☐ CO ☐ CCO ☐ CA

Date: **4/6/09**

Approved by: **[Signature]**

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent/owner) of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

Licensed Elec. Contractor ☐ Certified Landscape Irrigation Contr ☐ Exempt Applic:

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors—Fract. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UV Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

Date Received **2-3-09**

Control #

Date Issued

Permit #

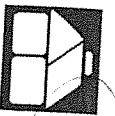
20090011

FEE (Office Use Only)

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$



BUILDING SUBCODE TECHNICAL SECTION



2009

Date Received 7-5-09
Control #

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.
Block 60 Lot 50
Work Site Location 501B EAST MAIN ST. WRIGHTSTOWN
Qualification Code SOMERERO

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent or owner of record and am authorized to make this application.
Signature [Signature]

Date Issued 20090011
Permit #

Owner in Fee: DELTA Cesar Luna
Tel. (609) 744-2020
Address 1 Martha Ave Apt. 21 Wrightstown NJ 08542
e-mail [blank]

D. TECHNICAL SITE DATA

Contractor: Al's Signs
Address 958 Rt 537 08514 Tel. (609) 758-3005
Cream Ridge NJ e-mail ALHUTCHINS

Contractor License No. or Builder Registration No. [blank]
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): [blank]
Federal Emp. ID No. [blank] Exp. Date 7/4
FAX: () [blank]

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Type:	Failure	Dates (Month/Day)	Initial
☐ All			☒ Footing				
☐ Footings/Foundations	<u>7/3</u>	<u>[Signature]</u>	☐ Footing Bonding				
☐ Structural/Framework			☐ Foundation				
☐ Exterior			☐ Slab				
☐ Interior			☐ Frame				
Joint Plan Review Required:			☐ Truss Sys./Bracing				
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			☐ Barrier-Free				
SUBCODE APPROVAL for PERMIT			☐ Insulation				
Date:			☐ Finishes -Base Layer				
Approved by:			☐ Finishes -Final				
SUBCODE APPROVAL for CERTIFICATE			☐ Energy				
☐ CO ☒ ECO ☐ CA			☐ Mechanical				
Date:	<u>7/6/09</u>	<u>[Signature]</u>	☐ TCO				
Approved by:			☐ Other				
			☐ Barrier-Free				

B. BUILDING CHARACTERISTICS

Use Group Present [blank] Proposed [blank]
No. of Stories [blank]
Height of Structure [blank] ft.
Area — Largest Floor [blank] sq. ft.
New Bldg. Area/All Floors [blank] sq. ft.
Volume of New Structure [blank] cu. ft.
Max. Live Load [blank]
Max. Occupancy Load [blank]

Constr. Class Present [blank] Proposed [blank]
If Industrialized Building:
State Approved [blank] HUD [blank]
Est. Cost of Bldg. Work:
1. New Bldg. \$ [blank]
2. Rehabilitation \$ [blank]
3. Total (1+2) \$ 3500

DESCRIPTION OF WORK
357 X 122 ft are sided illuminated sign w/ lexan faces affixed to front facade of building using lag screws & toggle bolts. Electrical service & connection to be made by electrician doing all electrical service on site.

TYPE OF WORK:

- ☐ New Building
- ☐ Addition
- ☒ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence
- ☒ Sign
- ☐ Pool
- ☐ Retaining Wall
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz. Abatement NJAC 5:17
- ☐ Radon Remediation
- ☐ Other
- ☐ Demolition

FEE (Office Use Only)
\$ [blank]

Administrative Surcharge \$ [blank]
Minimum Fee \$ [blank]
State Permit Surcharge Fee \$ [blank]
TOTAL FEE \$ [blank]

U.C.C. F110 (rev. 12/07)
Internet version

Applicant: When submitting this form to your Local Control Office, please provide one original plus three photocopies.

PIONEER BUILT EXTRUSION

Engineered by the signman for the signman. Three widths available for \ face signs or double face signs, flat or pan formed faces.

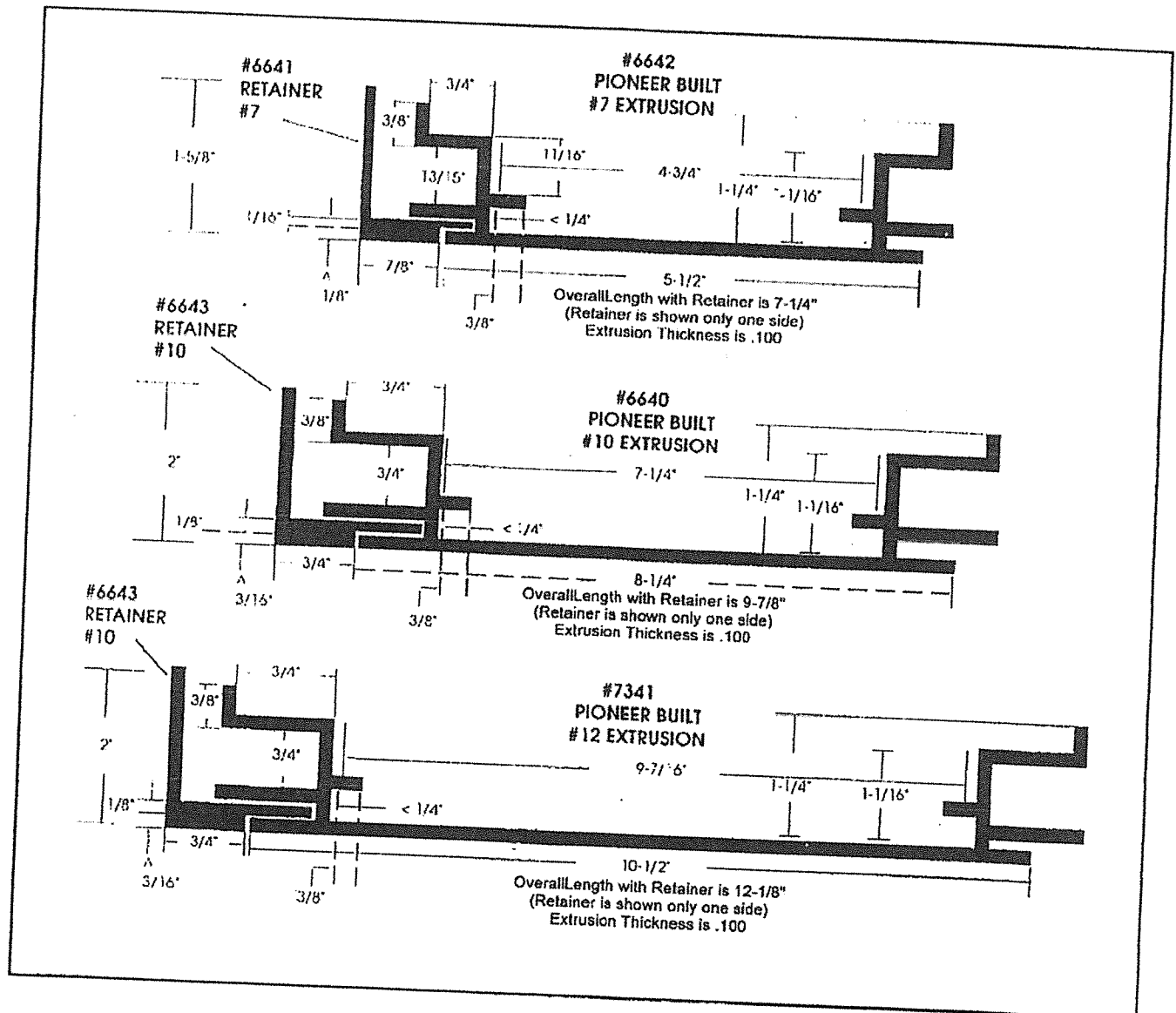
Available in: Full 24.5 foot lengths of extrusion and retainer, Pre-mitred sets of extrusion and retainer
Full component pre-cut sign kits, Fully assembled sign boxes

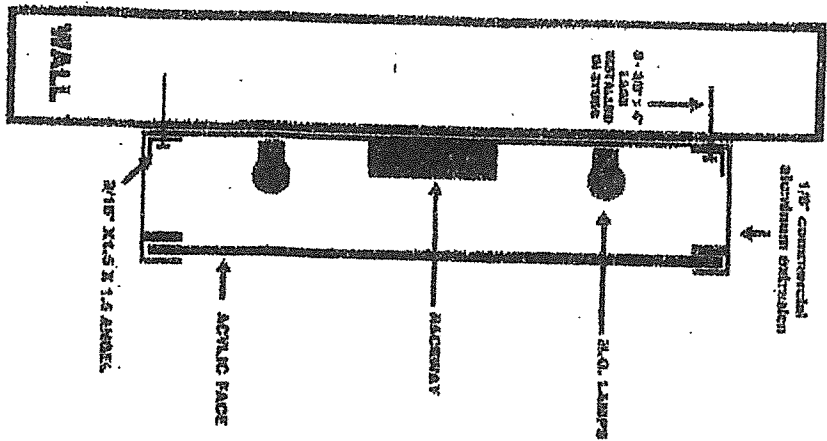
Extrusion Prices

Size	Number	Type	Use for
7-1/4"	6642	#7 Extrusion	Flat or Pan Face
9-7/8"	6640	#10 Extrusion	Single or Double Flat Face
12- 1/8"	7341	# 12 Extrusion	Double Flat Face

Retainer Prices

Size	Number	Type	Use for
#7	6641	Retainer	#6642 Extrusion
#10	6643	Retainer	#6640 & #7341 Extrusion





INSTALLATION

EL SOMBRERO

144 in

36 in

LIGHTED BOX

ALL ALUMINUM CONSTRUCTION LEXAN FACE

UL Listed With UL Shut Off Switch

SIGN INSTALLATION

41's Sign & Truck Co.
New Egypt, N.Y. 13557
609-758-3005



BOROUGH OF WRIGHTSTOWN
21 SAYLORS POND ROAD
WRIGHTSTOWN, NJ 08562
609-723-4450

Block: 601 Lot: 50 Qualification
Code: SOMBRERO

WRIGHTSTOWN

Owner in Fee: JULIO C. ZUNIGA dba EL SOMBRERO

Address: PO BOX 424

WRIGHTSTOWN NJ 08562

Telephone: 609 744-2020

Agent/Contractor: FORUM HEATING & COOLING INC.

Address: 213 PARSONAGE ROAD

EDISON NJ 08837

Telephone: 732 421-8093

Lic. No./ Bldrs. Reg.No.:

Social Security No.: Federal Emp. No.: 20-1456985

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☒ CERTIFICATE OF APPROVAL

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☐ TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE

This is a temporary Certificate of Occupancy or Compliance, the following conditions must be met no later than or will be subject to fine or order to vacate:

CERTIFICATE IDENTIFICATION

Date Issued: 04/27/2009
Control #: 191
Permit #: 20080065

Home Warranty No:

Type of Warranty Plan:

Use Group: ☐ State ☐ Private

Maximum Live Load:

Construction Classification:

Maximum Occupancy Load:

Certificate Exp Date:

Description of Work/Use:

TENANT FIT OUT
NEW MEXICAN RESTAURANT

Update Desc. of Work/Use:

CHANGE OF PLUMBING CONTRACTOR, PLUMBING CONTRACTOR CHANGE

☐ CERTIFICATE OF CLEARANCE-LEAD ABATEMENT 5:17

This serves notice that based on written certification, lead abatement was performed as per NJAC 5:17, to the following extent:

☐ Total removal of lead-based paint hazards in scope of work

☐ Partial or limited time period(____ years); see file

☐ CERTIFICATE OF CONTINUED OCCUPANCY

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ CERTIFICATE OF COMPLIANCE

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

Harry W. Case
Construction Official

U.C.C 260 (rev. 5/03)

1 - APPLICANT 2 - OFFICE 3 - TAX ASSESSOR

Fees: \$0.00

Paid [X] Check No.: 101

Collected by: lp

Building

Inspection Date: 04/27/2009 For HC

Permit No Upd	Perm. Dt	Block No	Lot No	Name	Work Site Address
Special Instructions			Inspection Type(s)		
Description			Type 1	Type 2	Type 3

Inspections for April 27 , 2009

Time : 12:00:00AM

20070043	0 07/05/2007	302	1.02	WELLER, GEORGE	7 AUGUSTA STREET WRIGHTSTOWN
NEW SINGLE FAMILY			FINAL P- ☒ F- ☐ C- ☐	P- ☐ F- ☐ C- ☐ P- ☐ F- ☐ C- ☐	
					[]-Not Ready []-Not Done

Time : 12:00:00AM

20080065	0 10/01/2008	601	50	JULIO C. ZUNIGA dba EL SOMBRE	501-B EAST MAIN STREET WRIGHTSTOWN
TENANT FIT OUT NEW MEXICAN RESTAURANT			FINAL P- ☒ F- ☐ C- ☐	P- ☐ F- ☐ C- ☐ P- ☐ F- ☐ C- ☐	
					[]-Not Ready []-Not Done



BUILDING SUBCODE TECHNICAL SECTION



1911

Date Received 8/21/08
Control #
Date Issued
Permit # 20080065

A. IDENTIFICATION—APPLICANT COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 601 Lot 50 Qualification Code _____
Work Site Location 501 EAST MAIN STREET

Owner In Fee: Julio C. Zuniga
Tel. (722) 421 8093 e-mail flcoot2000@yahoo.com

Address _____

Contractor: Forum HC Inc. Tel. (732) 421 8093

Address 213 Parsonage Rd Edison NJ

Contractor License No. or Builder Registration No. _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 201 436 965 FAX: 732 295 0101

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)	Initial
1. No Plans Required			Failure	Failure	Approval
☒ All			Roofing		
☒ Footing			Foundation		
☒ Foundation			Slab		
☒ Frame			Frame		
☒ Other			Roof Sys/Bracing		
Joint Plan Review Required:			Barrier-Free		
☒ Elec.			Insulation		
☒ Plumb.			Finishes—Base Layer		
☒ Elevator			Finishes—Final		
SUBCODE APPROVAL			Energy		
1. 1.00	1.1.000	1.1.1.00	Mechanical		
Date	<u>7/27/09</u>		TEC		
Approved by	<u>[Signature]</u>		Other—See back		
			Final		
			Barrier-Free		

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	Est. Cost of Bldg. Work:
Const. Class	Present	Proposed	1. New Bldg. \$ <u>35,000</u>
No. of Stories			2. Rehabilitation \$ _____
Height of Structure			3. Total (1+2) \$ _____
Area — Largest Floor			
New Bldg. Area/All Floors			
Volume of New Structure			
Total Land Area Disturbed			

U.C.C. F110
(Per 706)

1 White = Inspector Copy
3 Pink = Office Copy

2 Carney = Office Copy
4 Gold = Applicant Copy

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

TENANT FIT OUT
REHAB

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the agent of owner of record and am authorized to make this application.

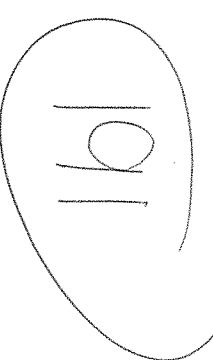
Signature _____

TYPE OF WORK:

- ☐ New Building
- ☐ Addition
- ☒ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence _____ Height (exceeds 6')
- ☐ Sign _____ Sq. Ft.
- ☐ Pool
- ☐ Retaining Wall _____ Sq. Ft.
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz. Abatement NJAC 5:17
- ☐ Radon Remediation
- ☒ Other Food Support
- ☐ Demolition

FEE (Office Use Only)

Administrative Surcharge \$	
Minimum Fee \$	
State Permit Surcharge Fee \$	
TOTAL FEE \$	



Date Received
Control # 8/21/08

Date Issued
Permit #

Date Issued
Permit #

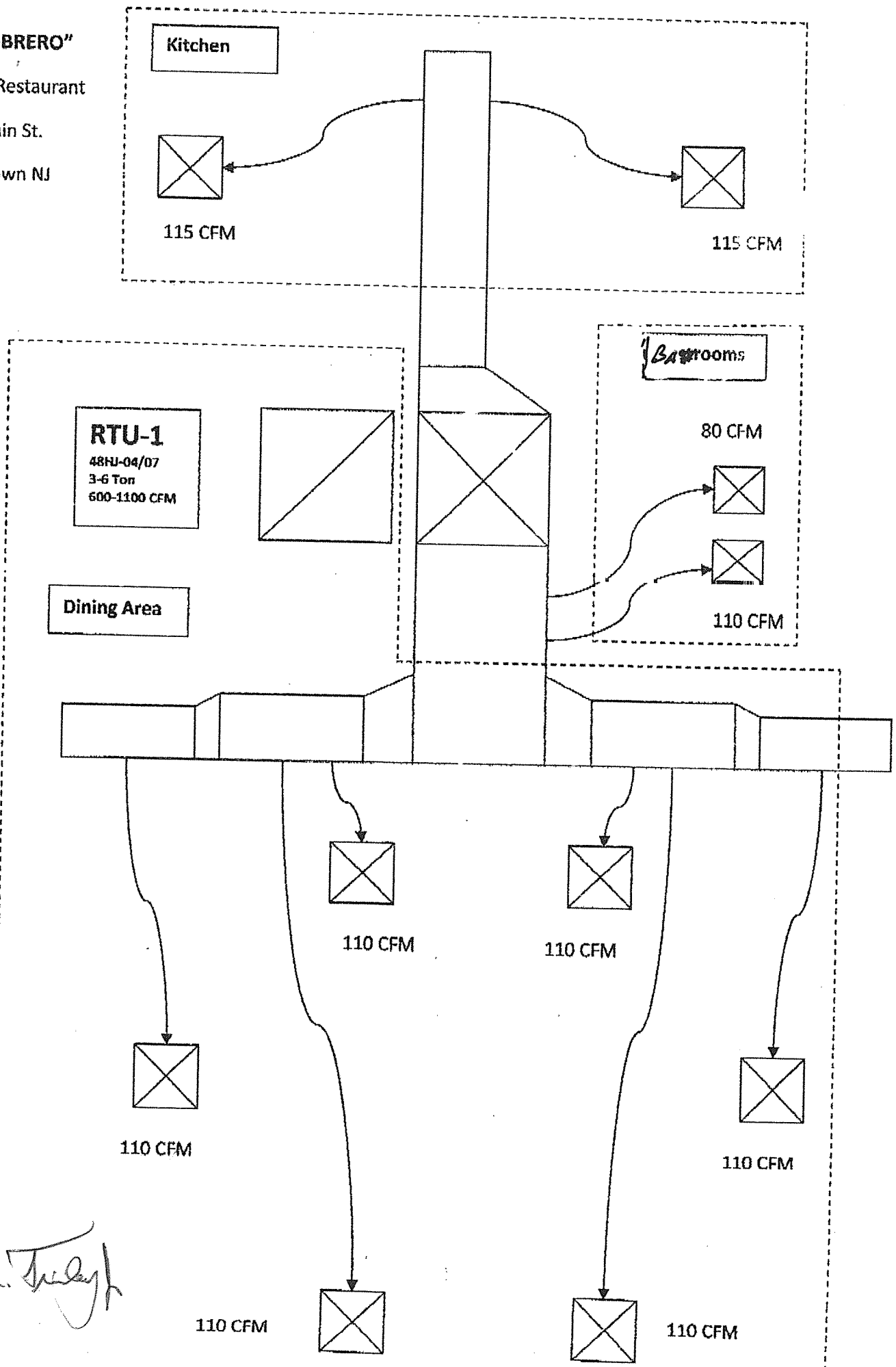
2 Canary = Office Copy

"EL SOMBRERO"

Mexican Restaurant

501 E. Main St.

Wrightstown NJ



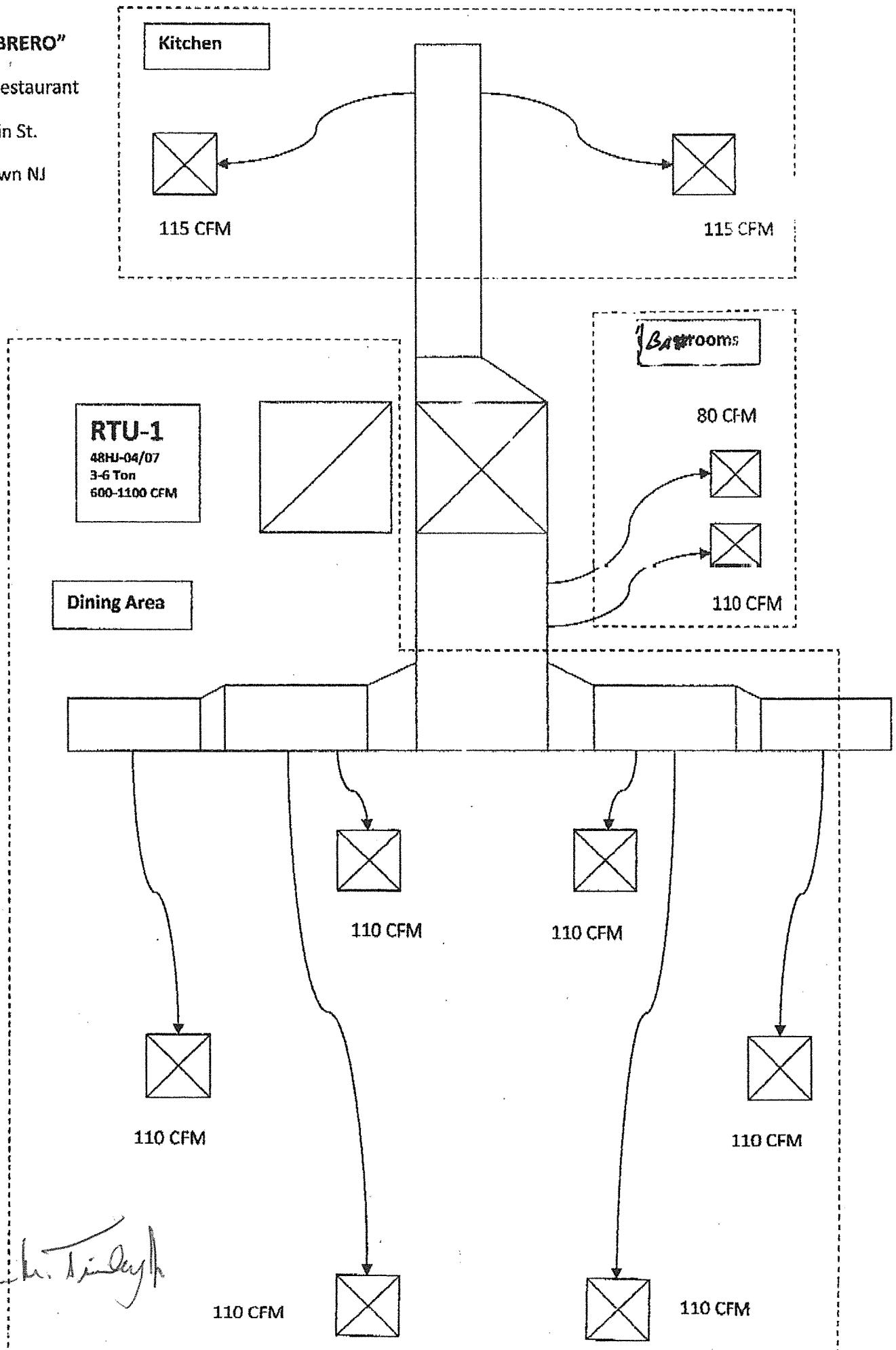
Joseph M. Tracy

"EL SOMBRERO"

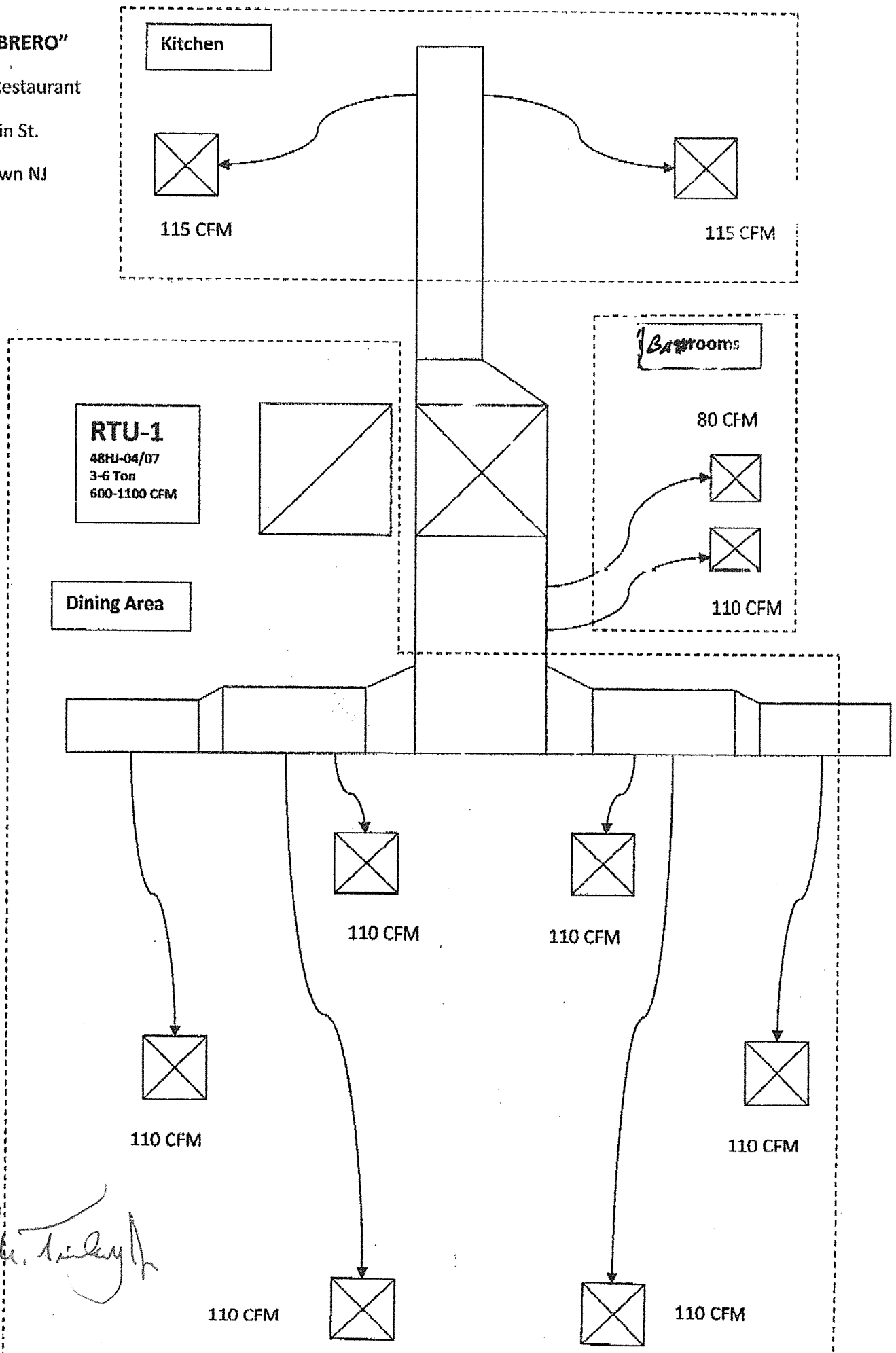
Mexican Restaurant

501 E. Main St.

Wrightstown NJ



"EL SOMBRERO"
Mexican Restaurant
501 E. Main St.
Wrightstown NJ

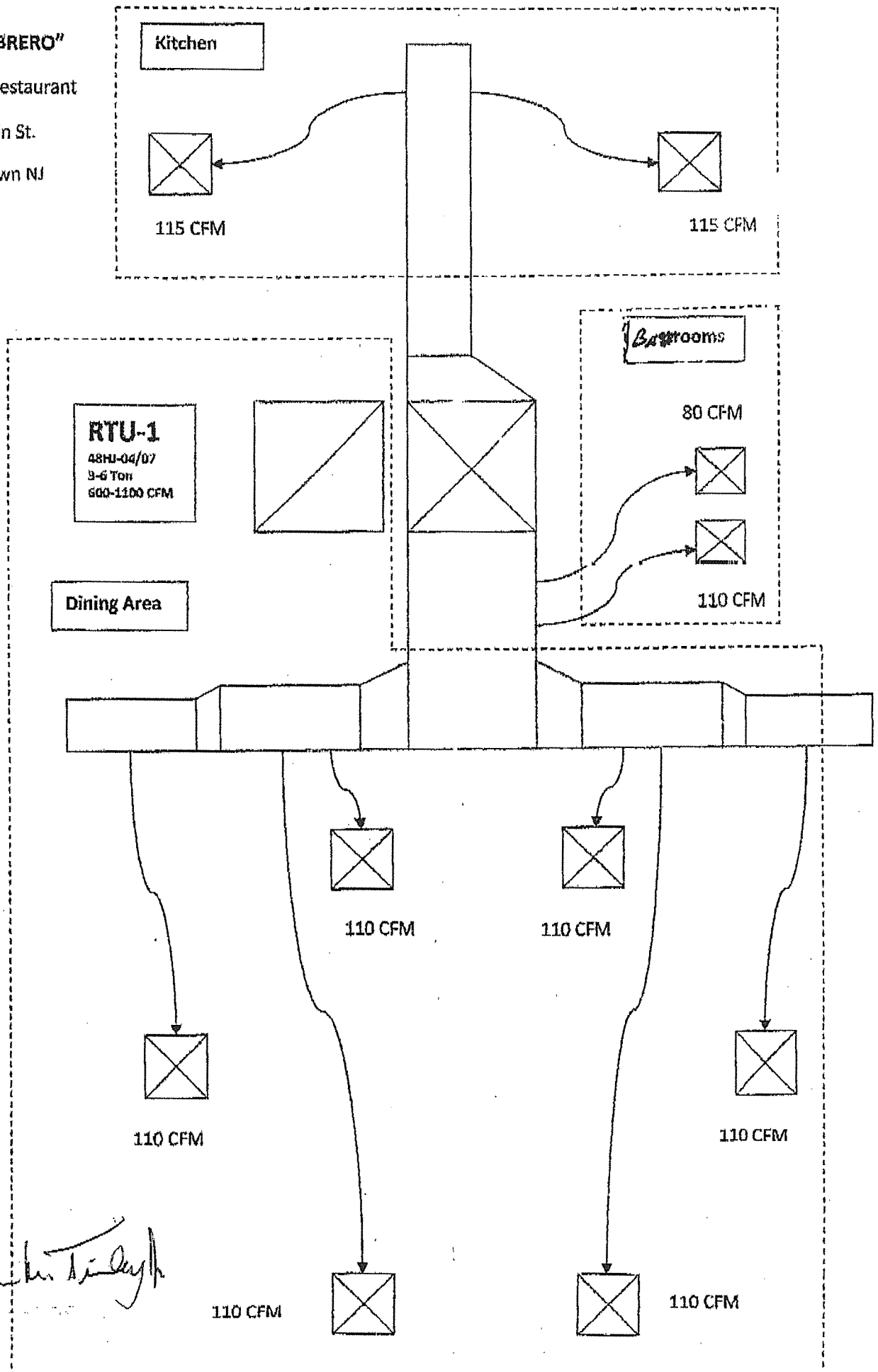


"EL SOMBRERO"

Mexican Restaurant

501 E. Main St.

Wrightstown NJ



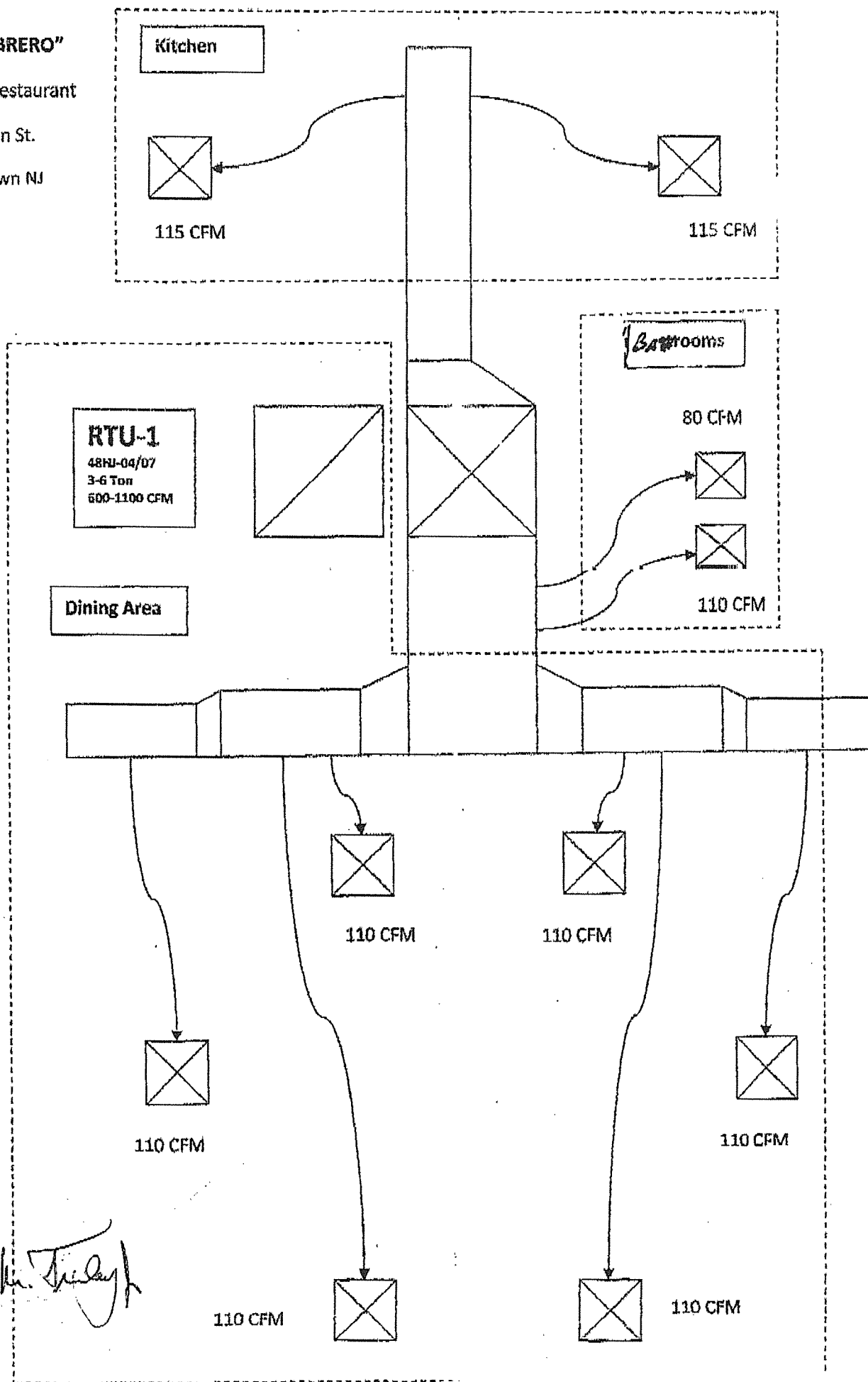
Joseph L. Tringali

"EL SOMBRERO"

Mexican Restaurant

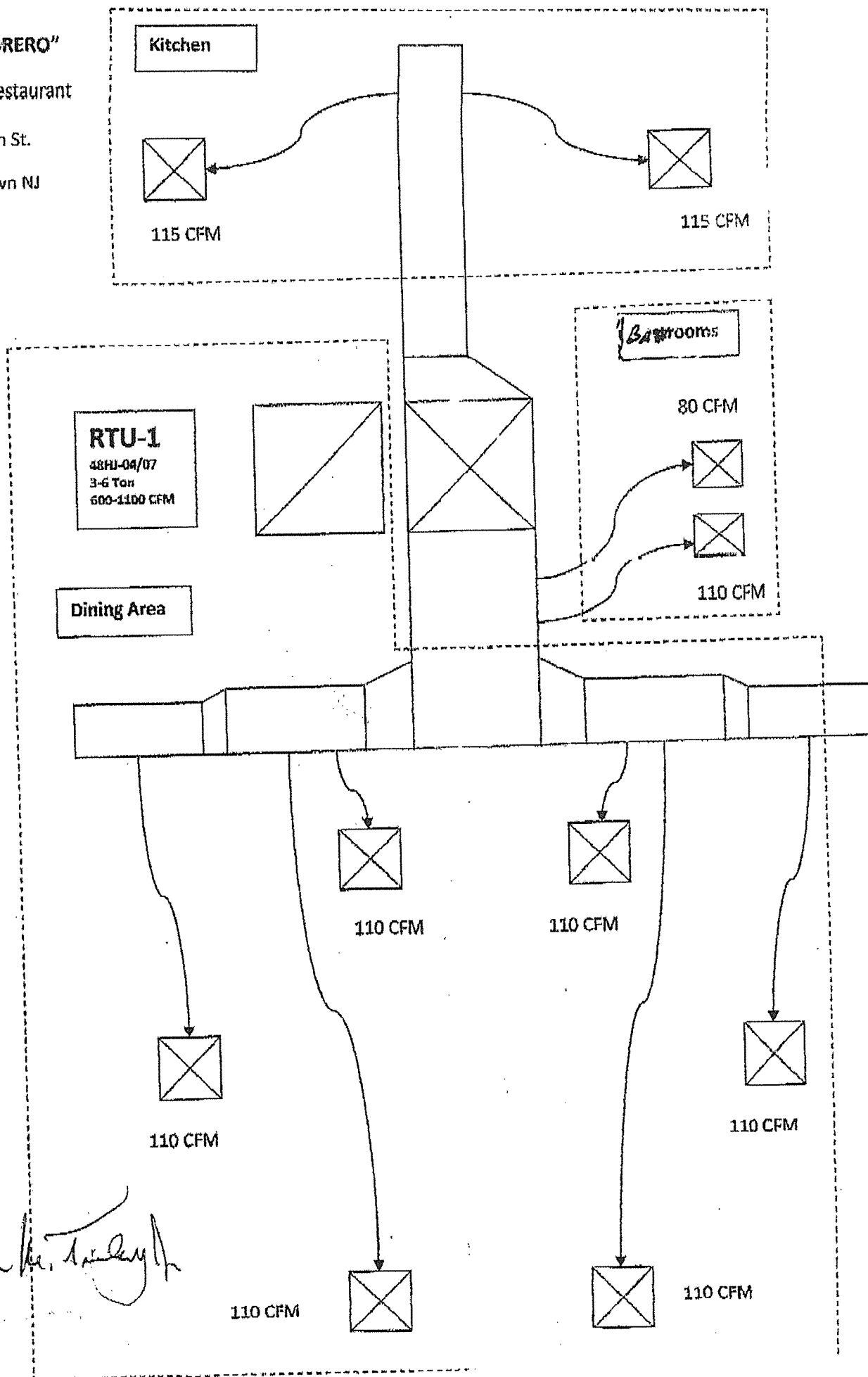
501 E. Main St.

Wrightstown NJ



Joseph M. Trilley

Wrightstown NJ



Change of contractor due work

Date Received
Control #Date Issued
Permit #3/27/09
20080065PLUMBING SUBCODE
TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 601 Lot 50 Qualification Code _____Work Site Location REL SOMBRETO

Owner in Fee: _____ Tel. () _____ e-mail _____

Address 501 E Main St WILMINGTON, NJ 08562Contractor: ASAP Plumbing + Heating Tel. (232) 484-3720Address 24 HARVARD ST e-mail _____Red Bank, NJ 07705Contractor License No. 10287 Exp. Date 6/30/09

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 201986699 FAX: (232) 530 7102

B. PLUMBING CHARACTERISTICS

Use Group _____ Present _____ Proposed _____

Building Sewer Size _____ Public Sewer _____ Private Septic _____

Water Service Size _____ Public Water _____ Private Well _____

Est. Cost of Plumbing Work \$ _____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Licensed Plumbing Contractor () Exempt Applicant

Applicant's Signature/Contractor's Seal and Signature

Applicant_____
Contractor_____
Seal_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature_____
Signature

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Rough tenant fit out
+ slab

FIXTURE/EQUIPMENT

FEE (Office Use Only)

\$

U.C.C. F130 (rev. 12/07)
Internet version

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

Borough of Wrightstown

FIRE SUBCODE TECHNICAL SECTION

Date Received 08/21/2008

Control # 191

Date Issued 10/01/2008
Permit # 20080065

A. IDENTIFICATION APPLICANT: COMPLETE ALL APPLICABLE INFORMATION WHEN CHANGING CONTRACTOR, NOTIFY THIS OFFICE. CALL UTILITY DUG NO: 1-800-272-1000.

Block: 601 Lot: 50

Qualification Code: SOMBRERO

Work Site Location: 501-B EAST MAIN STREET

Owner Details

Owner in Fee: JULIO C. ZUNIGA aka EL SOMBRERO Contractor: CREATIVE INDUSTRIAL KITCHES
Address: PO BOX 424 ATTN: 8150 PLACE

Telephone: (609) 744-2020

Address: 8150 PLACE WAYNE NJ 07470

E-mail: (973) 633-0420 Fax: (973) 633-7022

Home Improvement Registration No. or Exemption Reason:

Federal Emp. No.: 1461802190

Fire Protection Equipment, NJ Div of Fire Safety Installer No.: 153666

License No.: 153666

Fire Protection Equipment, NJ Div of Fire Safety Permit No.:

Exp. Date: 10/31/2009

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present A-3 Proposed

Constr. Class: Present Proposed

Heating Systems: [] New [] Existing [] HVAC

Type: [] Gas [] Oil [] Electric [] Solar

Location: [] Other

Fuel Storage Tanks:

Type: [] Flammable or [] Combustible [] LPG [] LNG Capacity Fuel

1. New: \$0.00 2. Rehabilitation: \$8,000.00 3. Demolition: \$0.00

Total Cost of Fire Protection (1+2+3) Work: \$8,000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

John Plan Review Required:

[] Bldg. [] Elec.

[] Plumbing [] Elevator

[] Fire Plans Approved

Date:

Approved by:

SUBCODE APPROVAL

[] CO [] LCCO []

Date:

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature

[] Certified Contractor
[] Exempt Applicant

U.C.C.F.140 (rev. 10/9)

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:
TENANT FIT OUT
NEW MEXICAN RESTAURANT

FIRE

Water Suppression System Supervision
Method of Alarm/Suppression System Supervision

Flammable/Combustible Tanks

[] System

[] 110v interconnected

[] CO Detectors/10v

Alarm Devices (i.e., smoke, heat, pull, water/flow)

Supervisory Devices (i.e., jumpers, low/high air)

Signaling Devices (i.e., horns, strobes, bells)

Other Devices:

TOTAL:

Suppression Systems

Fire Pump — GPM Type —

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO2 Suppression

Veam Suppression

FM200 Suppression

Other:

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fixed Appliances [X] Gas or [] Oil

Fireplace Venting/Chimney

Other:

NUMBER

FEE (Office Use Only)

1 \$50.00

1 \$50.00

1 \$100.00

1 \$50.00

4 \$200.00

Administrative Surcharge

Minimum Fee

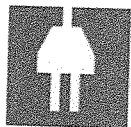
State Permit Surcharge Fee

TOTAL FEE

\$11.00

\$411.00

ELECTRICAL SUBCODE
TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block _____ Lot _____ Qualification Code _____

Work Site Location Somerset Restaurant

Owner in Fee: 501 E. Main Street

Tel. () _____ e-mail _____

Address _____

Contractor: _____

Address _____

Contractor License No. _____

Home Improvement Contractor Registration Freehold, NJ 07728

Federal Emp. ID No. _____

B. ELECTRICAL CHARACTERISTICS

Use Group _____

Building Occupied as _____

Est. Cost of Elec. Work \$ 7500.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS	
Date	Initial	Type	Dates (Month/Day)
		No Plans Required	
		Joint Plan Review Required:	
		Building	
		Plumbing	
		Fire	
		Elevator	
		Elec. Plans Approved	
Date:	<u>9/29/08</u>	TCO	
Approved by:	<u>[Signature]</u>	Other	
		Service	
		Barrier-Free	
		Final	
		Temp. Cut-in-Card Date Issued	
		Final Cut-in-Card Date Issued	
		Annual Pool Inspection	
		Date of Grounding and Bonding	
		Certification	

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

[] Licensed Elec. Contractor [] Certifd Landscape Irrigation Contr [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Permit for Out

Date Received 9/29/08
Control # 01

Date Issued 20080005
Permit # _____

QTY	SIZE	ITEMS	FEE (Office Use Only)
40		Lighting Fixtures	
25		Receptacles	
8		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
2		Emergency & Exit Lights	
3		Communications Points	
		Alarm Devices/F.A.C. Panel	
80		TOTAL NUMBERS	
		Pool Permit/with UW Lights	
		Storable Pool/Spa/Hot Tub	
		KW Elec. Range/Receptacle	
		KW Oven/Surface Unit	
		KW Elec. Water Heater	
1		KW Elec. Dryer/Receptacle	
1		KW Dishwasher	
1		HP Garbage Disposal	
1		KW Central A/C Unit	
3		HP/KW Space Heater/Air Handler	
2		KW Baseboard Heat	
1 1/2		HP Motors 1/+ HP	
200		KW Transformer/Generator	
1		AMP Service	
		AMP Subpanels	
		AMP Motor Control Center	
		KW Elec. Sign/Outline Light	
1		3kW Cooler Box	
1		3kW Freezer Box	

Administrative Surcharge \$	
Minimum Fee \$	
State Permit Surcharge Fee \$	
TOTAL FEE \$	

"EL SOMBRERO"

Mexican Restaurant

501 E. Main st. Wrightstown NJ

Electrical Panel schedule

200 AMP MB / 3 PH 4W 200V/120V/42CKTS
10 KTAC

1	Recess Lights	1p 20amp	2	Duplex Receptacles	1p 20 amp
3	2x2 Lights	1p 20 amp	4	GFCI Receptacles	1p 20 amp
5	2x4 Lights	1p 20 amp	6	Ice Machine	2p 20amp
7	Hood Supply Fan	1p 20 amp	8	Ice Machine	2p 20amp
9	Hood Exhaust Fan	2p 20amp	10	Dishwasher	2p 20amp
11	Hood Exhaust Fan	2p 20amp	12	Dishwasher	2p 20amp
13	Lights Hood	2p 20amp	14	Coffee Machine	2p 20amp
15	Bathroom Ex. Fans	1p 20 amp	16	Coffee Machine	2p 20amp
17	RTU-1	3p 20amp	18	Salad Bar Receptacle	1p 20 amp
19	RTU-1	3p 20amp	20	Cooler Box	1p 20 amp
21	RTU-1	3p 20amp	22	Freezer Box	2p 20amp
23			24	Freezer Box	2p 20amp
25			26		
27			28		
29			30		
31			32		
33			34		
35			36		
37			38		
39			40		
41			42		

Total connected load 36Kw

Joseph M. Tindley



Borough of Wrightstown
21 SAYLORS POND ROAD
WRIGHTSTOWN, NJ 08562
609 - 723-4450

Permit Number: 20080065
Update Number: 2
Control Number: 246
Application Date: 03/27/2009
Permit Date: 03/27/2009

CONSTRUCTION PERMIT UPDATE

IDENTIFICATION

OWNER/PROPERTY DETAILS

Block: 601 Lot: 50 Qualification Code: SOMBRERO	
Work Site Location: 501-B EAST MAIN STREET WRIGHTSTOWN	
Owner In Fee: JULIO C. ZUNIGA dba EL SOMBRERO	Contractor: FORUM HEATING & COOLING INC
Address: PO BOX 424	Address: 213 PARSONAGE ROAD
WRIGHTSTOWN NJ 08562	EDISON NJ 08837
Telephone: (609) - 744-2020	Telephone: (732) - 421-8093
Use Group(s): A-3	Lic. No. / Bldrs. Reg. No.:
	Federal Emp. No.: 20-1456985

is hereby granted permission to perform the following work :

☐ BUILDING	☒ PLUMBING	☐ DEMOLITION
☐ ELECTRICAL	☐ FIRE PROTECTION	☐ OTHER
☐ ELEVATOR DEVICES	☐ MECHANICAL	
☐ ASBESTOS ABATEMENT	☐ LEAD HAZARD ABATEMENT	

(Subchapter 8 only)

DESCRIPTION OF WORK:
CHANGE OF PLUMBING CONTACTOR

ESTIMATED COST OF WORK:

Cost of Construction:	0.00
Cost of Rehabilitation:	0.00
Cost of Demolition:	0.00

Total Cost:	\$0.00
-------------	--------

PAYMENTS (Office Use Only)

Building	
Electrical	
Plumbing	
Fire Protection	
Elevator Devices	
Mechanical	
VolFee (DCA)	
AltFee (DCA)	
DCA Minimum	\$0.00
Other Fees	
CO Fee	
CCO Fee	
Minimum Fee	
Total	
All Fees Waived:	Yes

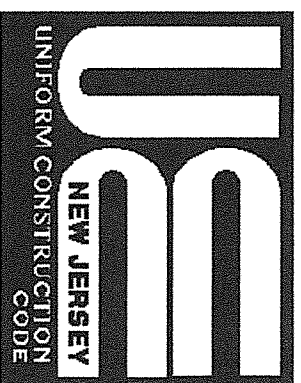
Amount to be Paid:

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Harry W. Case
Construction Official

Date

Note:



CUT-IN-CARD

Municipality Wrightstown Borough

Location 501-B East Main Street

Wrightstown, NJ 08562

Owner Julio Zuniga

Utility Co. JCP&L

Block 601 Lot 50 Qualif. Code Sombre

Occupant El Sombrero Mexican Restaur

"Installation in the above premises has been inspected and is in accordance with N.E.C. and DCA requirements."

☒ FINAL ☐ TEMPORARY This approval is void after _____ days.

Description of Service New 200 AMP Service

Installed By AA Electrical Contractors License # 11616A

Date 2/20/09 Permit # 20080065 Inspector Mr. Case

☒ Faxed In 2/20/09 License # 008364

DR # 318528939



Borough of Wrightstown
21 SAYLORS POND ROAD
WRIGHTSTOWN, NJ 08562
609 - 723-4450

Permit Number: 20080065
Update Number: 2
Control Number: 246
Application Date: 03/27/2009
Permit Date: 03/27/2009

CONSTRUCTION PERMIT UPDATE IDENTIFICATION

OWNER/PROPERTY DETAILS

Block: 601 Lot: 50 Qualification Code: SOMBRERO
Work Site Location: 501-B EAST MAIN STREET WRIGHTSTOWN

Owner In Fee: JULIO C. ZUNIGA dba EL SOMBRERO

Address: PO BOX 424
WRIGHTSTOWN NJ 08562

Telephone: (609) - 744-2020

Use Group(s): A-3

Contractor: FORUM HEATING & COOLING INC

Address: 213 PARSONAGE ROAD
EDISON NJ 08837

Telephone: (732) - 421-8093

Lic. No. / Bldrs. Reg. No.:

Federal Emp. No.: 20-1456985

is hereby granted permission to perform the following work :

- | | | |
|---|--|-------------------------------------|
| ☐ BUILDING | ☒ PLUMBING | ☐ DEMOLITION |
| ☐ ELECTRICAL | ☐ FIRE PROTECTION | ☐ OTHER |
| ☐ ELEVATOR DEVICES | ☐ MECHANICAL | |
| ☐ ASBESTOS ABATEMENT | ☐ LEAD HAZARD ABATEMENT | |

(Subchapter 8 only)

DESCRIPTION OF WORK:
CHANGE OF PLUMBING CONTACTOR

ESTIMATED COST OF WORK:

Cost of Construction:	0.00
Cost of Rehabilitation:	0.00
Cost of Demolition:	0.00

Total Cost:	\$0.00
-------------	--------

PAYMENTS (Office Use Only)	
Building	
Electrical	
Plumbing	
Fire Protection	
Elevator Devices	
Mechanical	
VolFee (DCA)	
AltFee (DCA)	
DCA Minimum	\$0.00
Other Fees	
CO Fee	
CCO Fee	
Minimum Fee	
Total	
All Fees Waived:	Yes

Amount to be Paid:

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Harry W. Case
Construction Official

Date

ote:



Borough of Wrightstown
21 SAYLORS POND ROAD
WRIGHTSTOWN, NJ 08562
609 - 723-4450

Permit Number: 20080065
Update Number: 1
Control Number: 227
Application Date: 03/09/2009
Permit Date: 03/09/2009

CONSTRUCTION PERMIT UPDATE

IDENTIFICATION

OWNER/PROPERTY DETAILS

Block: 601 Lot: 50 Qualification Code: SOMBRERO
Work Site Location: 501-B EAST MAIN STREET WRIGHTSTOWN

Owner In Fee: JULIO C. ZUNIGA dba EL SOMBRERO
Address: PO BOX 424
WRIGHTSTOWN NJ 08562

Telephone: (609) - 744-2020

Use Group(s): A-3

Contractor: FORUM HEATING & COOLING INC

Address: 213 PARSONAGE ROAD
EDISON NJ 08837

Telephone: (732) - 421-8093

Lic. No. / Bldrs. Reg. No.:

Federal Emp. No.: 20-1456985

is hereby granted permission to perform the following work :

- | | | |
|---|--|-------------------------------------|
| ☐ BUILDING | ☒ PLUMBING | ☐ DEMOLITION |
| ☐ ELECTRICAL | ☐ FIRE PROTECTION | ☐ OTHER |
| ☐ ELEVATOR DEVICES | ☐ MECHANICAL | |
| ☐ ASBESTOS ABATEMENT | ☐ LEAD HAZARD ABATEMENT | |

(Subchapter 8 only)

DESCRIPTION OF WORK:
PLUMBING CONTRACTOR CHANGE

ESTIMATED COST OF WORK:

Cost of Construction:	0.00
Cost of Rehabilitation:	0.00
Cost of Demolition:	0.00

Total Cost:	\$0.00
-------------	--------

PAYMENTS (Office Use Only)

Building	
Electrical	
Plumbing	
Fire Protection	
Elevator Devices	
Mechanical	
VolFee (DCA)	
AltFee (DCA)	
DCA Minimum	\$0.00
Other Fees	
CO Fee	
CCO Fee	
Minimum Fee	\$50.00
Total	
All Fees Waived:	Yes

Amount to be Paid:

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Harry W. Case
Construction Official

3/9/09
Date

Note:



BOROUGH OF WRIGHTSTOWN

21 SAY ORSPOND ROAD • WRIGHTSTOWN, NJ 08562
(609) 723-4450



September 4, 2008

Burlington Emergency Management
Kevin Tuno, Coordinator
1 Academy Drive
Westampton, NJ 08060

Dear Mr. Tuno,

In reference to Wrightstown Borough 911 addresses, I submit the following additions and confirmations of existing addresses:

501 A East Main Street - Dunkin Donuts (Existing)
501 B East Main Street - El Sombrero Restaurant (Addition)
505 East Main Street - Days Inn Hotel (Existing)

The following addresses will replace 311 East Main Street.

311 A East Main Street - Puente Construction
311 B East Main Street - Tito Construction

Please acknowledge receipt and your agreement with the above by calling me at 609 723-4450 Ext. 10.

Sincerely,

Ellen A. Thorne
Ellen A. Thorne, RMC
Municipal Clerk

cc: Day's Inn-Wrightstown
El Sombrero Restaurant
Dunkin Donuts
Puente Construction
Tito Construction



Borough of Wrightstown
21 SAYLOR'S POND ROAD
WRIGHTSTOWN, NJ 08562
609 - 723-4450

Permit Number: 20080065
Permit Date: 10/01/2008
Update Number:
Control Number: 191
Application Date: 08/21/2008

CONSTRUCTION PERMIT

OWNER/PROPERTY DETAILS

IDENTIFICATION

Block: 601 Lot: 50 Qualification Code: SOMBRERO
Work Site Location: 501-B EAST MAIN STREET WRIGHTSTOWN

Owner In Fee: JULIO C. ZUNIGA

Address: PO BOX 424
WRIGHTSTOWN NJ 08562

Telephone: (609) - 744-2020

Use Group(s): A-3

Contractor: FORUM HEATING & COOLING
INC.

Address: 213 PARSONAGE ROAD

EDISON NJ 08837

Telephone: (732) - 421-8093

Lic. No. / Bldrs. Reg. No.:

Federal Emp. No.: 20-1456985

is hereby granted permission to perform the following work :

☒ BUILDING

☒ PLUMBING

☐ DEMOLITION

☒ ELECTRICAL

☒ FIRE PROTECTION

☐ OTHER

☐ ELEVATOR DEVICES

☐ MECHANICAL

☐ ASBESTOS ABATEMENT

☐ LEAD HAZARD ABATEMENT

(Subchapter 8 only)

DESCRIPTION OF WORK:

TENANT FIT OUT
NEW MEXICAN RESTAURANT

ESTIMATED COST OF WORK:

Cost of Construction: 0.00

Cost of Rehabilitation: 55,200.00

Cost of Demolition: 0.00

Total Cost: \$55,200.00

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Harry W. Case

Construction Official

9/29/08
Date

PAYMENTS (Office Use Only)

Building	\$995.00
Electrical	\$259.00
Plumbing	\$202.00
Fire Protection	\$400.00
Elevator Devices	
Mechanical	
VolFee (DCA)	
AltFee (DCA)	\$74.00
Other Fees	
CO Fee	
CCO Fee	
Minimum Fee	
Total	\$1,930.00
All Fees Waived:	No

Amount to be Paid: \$1,930.00

Check Number: 101

Check amount: \$1,930.00

Collected by: lp

Receipt No:

Total Cash Amount:

Total Check Amount: \$1,930.00

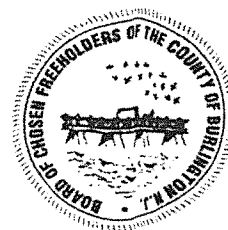
Total CC Amount:

Grand Total: \$1,930.00

ote:

**-Board of Chosen Freeholders
County of Burlington
New Jersey**

Burlington County Health Dept.
Raphael Meadow Health Center
15 Pioneer Boulevard
P.O. Box 6000
Mount Holly, NJ 08060



Tele: (609) 265-5548
Fax: (609) 265-5541

August 15, 2008

Julio C Zuniga
21 Martha Ave.
Wrightstown, NJ 08562

**RE: El Sombrero
507 E Main St
Wrightstown Boro**

Dear Mr. Zuniga:

A review of the subject architectural drawings shows them to be in substantial compliance with the provisions of New Jersey State Sanitary Code, Chapter 24, Sanitation in Retail Food Establishments and Food and Beverage Vending Machine Code (copy enclosed for your convenience and guidance) and pertinent local health regulations. Be advised that this review applies only to that section of the code that fall under the auspices of "Health Authority". Other stipulations and approvals that may be required under the Uniform Construction Code, re: toilet facilities for the public, ventilation, plumbing, electrical, fire, etc., will have to be obtained from your municipal construction code official.

The following stipulations are mandated:

NJAC-8:24-5.4 (c) 1. A direct connection shall not exist between the sewage system and a drain from the 3-baysink, food prep. sink, dishwasher, and ice machine.

In order to determine your compliance with the certified architectural plans, Chapter 24, and local health regulations, it will be necessary that three (3) working days notice be given to schedule a pre-operational inspection. Failure to obtain said inspection can result in delayed opening/reopening of your establishment.

Certification of the submitted architectural drawings and subsequent inspection of the completed work, resulting in a Satisfactory evaluation by this Department is in itself not authorization to occupy the building and/or commence operation of the business. This authorization can only be given by the officials of that municipality in which the business is located.

Please refer any questions you may have on this matter to the undersigned at 609-265-5566.

Sincerely,

E. R. Eugene

Cc.

of Health
Enforcement Code Official

PERMIT/PLAN REVIEW

Date 9-19-08
Name EL SOMBRERO
Address 501B EAST MAIN STREET

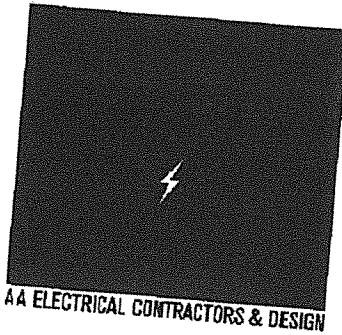
Control 191 Permit _____
Block 601 Lot 50

BUILDING ☐ ELECTRICAL ☐ xxx
PLUMBING ☐ FIRE ☐

1. Emergency light fixture for front doorway & rear doorway missing on plans.
2. Tech sheet does not show RTU.
3. Plans show one bathroom exhaust fan. Needs either larger fan or two exhaust fans for two bathrooms.
4. Plans show no switches.
5. Updated plans show no receptacles.

* New A-3 required

new tech sheet required



9/24/08

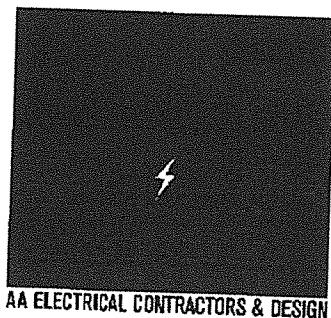
AA ELECTRICAL CONTRACTORS
12 FIVE POINTS RD.
FREEHOLD, NJ. 07728
732-410-4651
732-410-4652
LIC. #11616

TOWNSHIP OF WRIGHTSTOWN
ATTENTION: HARRY CASE

REFERENCE: EL SOMRERO RESTAURANT
501 E. MAIN ST WRIGHTSTOWN, NJ.

WE WILL BE PROVIDING WIRING FOR TWO BATHROOM EXHAUST FANS. ALSO, WE
WILL PROVIDE WALL SWITCHES AS NEEDED. PLEASE NOTE NEW AMENDED PLANS
WILL BE PROVIDED AT WHICH WILL PROVIDE UPDATE TO DATA TECH SHEET.
THANK YOU.


AAEC&D
ANTHONY GALLICCHIO



AA ELECTRICAL CONTRACTORS & DESIGN

9/24/08

AA ELECTRICAL CONTRACTORS
12 FIVE POINTS RD.
FREEHOLD, NJ. 07728
732-410-4651
732-410-4652
LIC. #11616

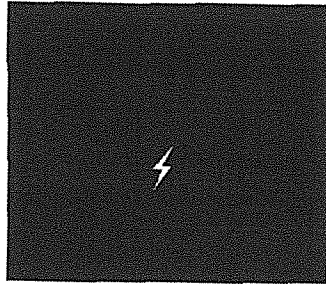
TOWNSHIP OF WRIGHTSTOWN
ATTENTION: HARRY CASE

REFERENCE: EL SOMRERO RESTAURANT
501 E. MAIN ST WRIGHTSTOWN, NJ.

WE WILL BE PROVIDING WIRING FOR ONE RTU (ROOF TOP UNIT) AS PER PLANS. ALSO,
AS LISTED ON PERMIT TECH SHEET.

THANK YOU.


AAEC&D
ANTHONY GALLICCHIO



AA ELECTRICAL CONTRACTORS & DESIGN

9/17/08

AA ELECTRICAL CONTRACTORS
12 FIVE POINTS RD.
FREEHOLD, NJ. 07728
732-410-4651
732-410-4652
LIC. #11616

TOWNSHIP OF WRIGHTSTOWN
ATTENTION: HARRY CASE

REFERENCE: EL SOMRERO RESTAURANT
501 E. MAIN ST WRIGHTSTOWN, NJ.

WE WILL BE INSTALLING ONE DUAL LIGHT WEATHERPROOF REMOTE EMERGENCY
LIGHT FIXTURE FOR THE FRONT DOORWAY AND ONE FOR THE REAR DOOR WAY. AS
NOTED THE FOLLOWING DEVICES ARE NOT INDICATED ON PLANS, BUT DO TO
ILLNESS WITH ARCHITECT WE ARE SUBMITTING STATEMENT LETTER. PLEASE FEEL
FREE TO CONTACT US WITH ANY QUESTIONS.

THANK YOU.

AAEC&D
ANTHONY GALLICCHIO

PERMIT/PLAN REVIEW

Date 9-9-08
Name EL SOMBRERO
Address TBD

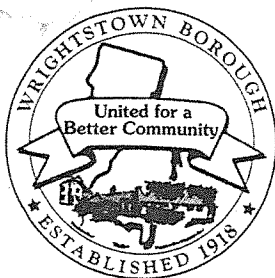
Control 191 Permit _____
Block 601 Lot 50

BUILDING ☐ ELECTRICAL ☒
PLUMBING ☐ FIRE ☐

- Show outside emergency lighting for egress doors. *letter send*
- Tech sheet item count match drawing

fax tech sheet to AA 9/17/08

732
410
4652



WRIGHTSTOWN BOROUGH

21 Saylors Pond Road • Wrightstown, NJ 08562
(609) 723-4450 • Fax (609) 723-7137

September 25, 2008

Joseph M. Tinley, AIA
Attn: Vasily
937 Hillside Avenue
Plainfield, NJ 07060

RE: El Sombrero Restaurant
Block 601 Lot 50

Dear Vasily:

To date, plan review on the PLUMBING, BUILDING and FIRE subcodes of El Sombrero have been completed and approved.

The Electrical Subcode Official has reviewed the plans for the ELECTRIC section and it has been conditionally approved. Mr. Gallicchio of AA Electrical Contractors supplied us with letters stating the following:

- AA Electrical Contractors will be installing one dual light weatherproof remote emergency light fixture for the front doorway and one for the rear doorway. These devices are not indicated on the plans.
- AA Electrical Contractors will be providing wiring for two bathroom exhaust fans. These devices are not indicated on the plans.
- AA Electrical Contractors will be providing wall switches as needed. These devices are not indicated on the plans.

The conditional approval requires that we receive 3 copies of an updated, corrected electrical plan (Page A-3). Upon receipt of the updated plans, Mr. Gallicchio of AA Electrical Contractors will complete a new, corrected Electrical Subcode Technical Sheet. Without these updates, your conditional approval will be revoked and will cause further delay.

Please resubmit the necessary items listed for plan review to be performed again. If you have any questions, please call (609)723-4450 x17 on Mondays between 4-6PM to speak to the Construction Official.

Regards,

A handwritten signature in dark ink, appearing to read "Harry Case", is written over a horizontal line.

Harry Case
Construction Official

HW/lp

cc: Mr. Oleg Filippov, Forum Inc. via Facsimile
Julio Zuniga via First Class Mail

PERMIT/PLAN REVIEW

Date 9-19-08
Name EL SOMBRERO
Address 501B EAST MAIN STREET

Control 191 Permit
Block 601 Lot 50

BUILDING ☐ ELECTRICAL ☐ xxx
PLUMBING ☐ FIRE ☐

1. Emergency light fixture for front doorway & rear doorway missing on plans.
2. Tech sheet does not show RTU.
3. Plans show one bathroom exhaust fan. Needs either larger fan or two exhaust fans for two bathrooms.
4. Plans show no switches.
5. Updated plans show no receptacles.

* New A-3 required

new tech sheet required

TRANSMISSION VERIFICATION REPORT

TIME : 09/25/2008 15:35
NAME : WRIGHTSTOWN
FAX : 6097237137
TEL : 6097234450
SER.# : BROL6J568473

DATE, TIME	09/25 15:33
FAX NO./NAME	12153648467
DURATION	00:01:18
PAGE(S)	02
RESULT	OK
CHECK READABILITY OF TRANSMITTED PAGE(S)	01, 02
MODE	STANDARD



WRIGHTSTOWN BOROUGH
21 Saylor's Pond Road • Wrightstown, NJ 08562
(609) 723-4450 • Fax (609) 723-7137

September 25, 2008

Joseph M. Tinley, AIA
Attn: Vasily
937 Hillside Avenue
Plainfield, NJ 07060

RE: El Sombrero Restaurant
Block 601 Lot 50

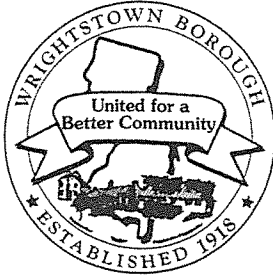
Dear Vasily:

To date, plan review on the PLUMBING, BUILDING and FIRE subcodes of El Sombrero have been completed and approved.

The Electrical Subcode Official has reviewed the plans for the ELECTRIC section and it has been conditionally approved. Mr. Gallicchio of AA Electrical Contractors supplied us with letters stating the following:

- o AA Electrical Contractors will be installing one dual light weatherproof remote emergency light fixture for the front doorway and one for the rear doorway. These devices are not indicated on the plans.
- o AA Electrical Contractors will be providing wiring for two bathroom exhaust fans. These devices are not indicated on the plans.
- o AA Electrical Contractors will be providing wall switches as needed. These devices are not indicated on the plans.

The conditional approval requires that we receive 3 copies of an updated, corrected electrical plan (Page A-3). Upon receipt of the updated plans, Mr. Gallicchio of AA Electrical Contractors



WRIGHTSTOWN BOROUGH

21 Saylors Pond Road • Wrightstown, NJ 08562
(609) 723-4450 • Fax (609) 723-7137

August 27, 2008

Joseph M. Tinley, AIA
Attn: Vasily
937 Hillside Avenue
Plainfield, NJ 07060

RE: El Sombrero Restaurant
Block 601 Lot 50

Dear Vasily:

Your drawings have been DENIED because of the following reasons:

Building:

- Missing vertical grab bar per ADA 2003 (608.3.1.2).
- Total occupancy including employees. Drawing shows 18 in seating area.
- Show UL detail on fire separation wall.
- How is the work being completed? Under Rehab code? If not, needs mechanical drawing showing duct layout, supply & return, details, etc.
- Show freezer and cooler boxes on plans.

Plumbing:

- We are under NSPC 2006.
- Show size of existing grease trap.
- Show total length of gas pipe and BTU's for each fixture.
- Vent not sized right as per NSPC 2006 (12.16.6), Table 12.16.6 for a 4" building sewer line (vent thru roof).
- Show type of faucets on all sinks, need cut sheets.
- Need cut sheets on tankless gas water heater, show exhaust for heater and drawing for pressure relief valve.
- Riser drawing does not match up with plumbing tech sheet fixture count.
- Mop sink for commercial building must be 2".
- Need cut sheet on dishwasher showing size of trap.

- Grease trap needs (PDI) standard. Show vent for grease trap on drawing and air intake with return bend under sink.

Electrical:

- Electrical tech sheet item count does not match the drawings.
- Need outside emergency fixture for egress doors.
- Show service on plans and panel schedule.

Please resubmit the necessary items listed for plan review to be performed again. If you have any questions, please call (609)723-4450 x17 on Mondays between 4-6PM to speak to the Construction Official.

Regards,



Harry Case
Construction Official

HW/lp

cc: Mr. Oleg Filippov, Forum Inc. via Facsimile
Julio Zuniga via First Class Mail

TRANSMISSION VERIFICATION REPORT

TIME : 08/28/2008 16:28
 NAME : WRIGHTSTOWN
 FAX : 6097237137
 TEL : 6097234450
 SER.# : BR0L6J568473

DATE, TIME : 08/28 16:26
 FAX NO./NAME : 17322050107
 DURATION : 00:01:39
 PAGE(S) : 03
 RESULT : OK
 MODE : STANDARD



WRIGHTSTOWN BOROUGH

21 Saylor's Pond Road
 Wrightstown, New Jersey 08562

Fax: (609)723-7137

Phone: (609)723-4450 x17
 Construction Department

FAX COVER SHEET

To: VISALY <i>pleg</i>	From: Linda Peterson, T.A.C.O.
CC:	E-mail: wrightstownlanduse@comcast.net
FAX: 215-364-8467	Pages: 2 + COVER
Re: EL SOMBRERO	Date: 8/28/08

VISALY,

HERE IS THE PLAN REVIEW FOR EL SOMBRERO.

TRANSMISSION VERIFICATION REPORT

TIME : 08/28/2008 16:25
 NAME : WRIGHTSTOWN
 FAX : 6097237137
 TEL : 6097234450
 SER.# : BR06J568473

DATE, TIME : 08/28 16:22
 FAX NO./NAME : 12153648467
 DURATION : 00:03:06
 PAGE(S) : 03
 RESULT : OK
 CHECK READABILITY OF TRANSMITTED PAGE(S) : 01, 02, 03
 MODE : STANDARD



WRIGHTSTOWN BOROUGH

21 Saylor's Pond Road
 Wrightstown, New Jersey 08562

Fax: (609)723-7137

Phone: (609)723-4450 x17
 Construction Department

FAX COVER SHEET

To: VISALY <i>pley</i>	From: Linda Peterson, T.A.C.O.
CC:	E-mail: wrightstownlanduse@comcast.net
FAX: 215-364-8467	Pages: 2 + COVER
Re: EL SOMBRERO	Date: 8/28/08

VISALY,

HERE IS THE PLAN REVIEW FOR EL SOMBRERO.

PERMIT/PLAN REVIEW

Date 8/28/08
Name _____
Address _____

Control _____ Permit _____
Block _____ Lot _____

BUILDING ☐ ELECTRICAL ☒
PLUMBING ☐ FIRE ☐

- Tech sheet does not match (Item count)
- Need outside emergency fixture for egress doors.
- Show service on plans and panel schedule schedule.
- Show freezer and cooler boxes on plans

Township of Springfield - Department of Inspections
2159 Jacksonville-Jobstown Road
PO Box 119
Jobstown, NJ 08041
(609) 723-2464 ext. 7

PLAN REVIEW RECORD

Date 8-28-08

BUILDING LOCATION

El Somburo
(Street Address)

BUILDING DESCRIPTION

REVIEWED BY

Subcode

CORRECTION LIST

NO.	DESCRIPTION	CODE SECTION
①	We are under NSPC 2006 ✓	
②	MISSING Vent BAR	
③	Layout Shows FE Seating for 18 people What ABOUT WORKERS ✓	
④	Show VL Detail ON Sep Wall ^{Separate}	
⑤	Header is being completed (Rech.) ^{Rehab?}	
⑥	Show third Comb Bar In Bath (AOA) ^{3rd comb bar in Bath} 2003	
⑦	Show SIZE OF EXISTING Grease Trap	
⑧	Show TOTAL Length of Gas Pipe And BTU's For Each Fixture	
⑨	Vent NOT sized Right As Per (12.16.6) TABLE 12.16.6 For a 4" Building Sewer Line (Vent Through ROOF) Thru	
⑩	Show TYPE OF Faucets ON All Sinks	
⑪	Need CUT sheets	
⑫	Need CUT sheet on tankless Gas water HEATER	
⑬	Show EXHAUST For HEATER And Drain For RELIEF VALVE ^{Water}	
⑭	Riser Drawing Does NOT match up with rest of tech ^{DRG} (TW) 8-28-08	

(12) mop sink For comm Building must
Be 2"

(13) need cut sheet on Dish washer
show size of trap

(14) Grease Trap must need (PDI) standard
show vent for Grease trap on Drawing
And Air intake with Return Bend under sink
air intake



WRIGHTSTOWN BOROUGH

21 Saylor's Pond Road • Wrightstown, NJ 08562
(609) 723-4450 • Fax (609) 723-7137

August 18, 2008

Joseph M. Tinley, AIA
Attn: Vasily
937 Hillside Avenue
Plainfield, NJ 07060

RE: El Sombrero Restaurant
Block 601 Lot 50

Dear Vasily:

Your drawings cannot go to plan review because of the following reasons by the Construction Code Official:

- Drawing A-1 does not state Construction Codes used
- Drawing A-1 does not state ADA Code ICC/ANSI A117.1-2003
- Building/Site Characteristics
- Combustion Air Calculation Sheet

Once the above mentioned items are corrected, please send the plans to the Construction Department along with a completed Combustion Air Calculation Sheet.

If you have any questions, please contact the Construction Department at (609)723-4450 x17.

Regards,

A handwritten signature in dark ink, appearing to read "Harry Case", is written over a horizontal line.

Harry Case
Construction Official

cc: Mr. Oleg Filippov, Forum Inc.
Julio Zuniga

TRANSMISSION VERIFICATION REPORT

TIME : 08/18/2008 17:32
NAME : WRIGHTSTOWN
FAX : 6097237137
TEL : 6097234450
SER.# : BR0L6J568473

DATE, TIME	08/18 17:31
FAX NO./NAME	12153648467
DURATION	00:01:01
PAGE(S)	01
RESULT	OK
CHECK READABILITY OF TRANSMITTED PAGE(S)	01
MODE	STANDARD



WRIGHTSTOWN BOROUGH
21 Saylor's Pond Road • Wrightstown, NJ 08562
(609) 723-4450 • Fax (609) 723-7137

August 18, 2008

Joseph M. Tinley, AIA
Attn: Vasily
937 Hillside Avenue
Plainfield, NJ 07060

RE: El Sombrero Restaurant
Block 601 Lot 50

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- o Combustion Air Calculation Sheet

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If you have any questions, please contact the Construction Department at (609) 723-4450.

TRANSMISSION VERIFICATION REPORT

TIME : 08/18/2008 17:36
NAME : WRIGHTSTOWN
FAX : 6097237137
TEL : 6097234450
SER.# : BR0L6J568473

DATE, TIME	08/18 17:35
FAX NO./NAME	17322050107
DURATION	00:00:37
PAGE(S)	01
RESULT	OK
MODE	STANDARD



WRIGHTSTOWN BOROUGH
21 Saylors Pond Road • Wrightstown, NJ 08562
(609) 723-4450 • Fax (609) 723-7137

August 18, 2008

Joseph M. Tinley, AIA
Attn: Vasily
937 Hillside Avenue
Plainfield, NJ 07060

RE: El Sombrero Restaurant
Block 601 Lot 50

Dear Vasily:

Your drawings cannot go to plan review because of the following reasons by the Construction Code Official:

- o Drawing A-1 does not state Construction Codes used
- o Drawing A-1 does not state ADA Code ICC/ANSI.A117.1-2003
- o Building/Site Characteristics
- o Combustion Air Calculation Sheet

Once the above mentioned items are corrected, please send the plans to the Construction Department along with a completed Combustion Air Calculation Sheet.

If you have any questions, please contact the Construction Department at (609)723-4450

PERMIT/PLAN REVIEW

Date 9-9-08
Name EL SOMBRERO
Address TBD

Control 191 Permit _____
Block 601 Lot 50

BUILDING ☐ ELECTRICAL ☐
PLUMBING ☒ FIRE ☐
9-16-08

RHEEM-RUUD COMMERCIAL TANKLESS

COMMERCIAL TANKLESS SERIES

Endless hot water for high-volume use

GT-199PV indoor, GT-199X outdoor and GT-199DV indoor direct vent natural and LP models – 19,900 - 199,900 BTU max.
8.5 gal./min at 35° F rise max., 7.4 gal./min. at 45° F rise

Limited Warranty:

5-Year on heat exchanger and parts, 1-Year on labor

See Commercial Warranty Information Brochure for complete warranty information.

- GT-199 units are specifically designed for commercial applications
- UMC-117 remote control is included – up to a 180 degree maximum
- EZ-Link™ cable available for high demand applications to connect two tankless units to operate as one
- **Exclusive!** All Rheem models can be linked in up to 20 unit manifold installations by using the optional MIC-180 and MICS-180 manifold control assembly
- **Exclusive!** Guardian SBT™ sensing burner technology
- **Exclusive!** Guardian OFW™ overheat film wrap
- **Exclusive!** Two high-altitude options – up to 6,560 or 9,840 ft. elevations above sea level (altitude chip required – sold separately)
- All Rheem tankless models are third-party efficiency certified by GAMA
- Continuous hot water, energy saving and compact, space saving design
- Intelligent electronic controls designed to increase energy efficiency and safety
- Self diagnostic program
- Digital display shows temperature setting and maintenance codes
- Built-in electric blower
- Indoor units use Category III stainless steel vents and vent horizontally or vertically
- Indoor models supplied with a 120 volt power cord
- Environmentally friendly Low NOx burner meets SCAQMD rule 1146 requirements
- Installation vent kits available – sold separately
- Indoor and outdoor models feature freeze protection to -30°F



Tankless water heaters
Endless hot water



See reverse for specifications.

COMMERCIAL TANKLESS SERIES

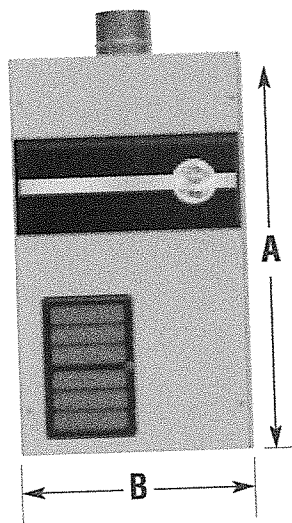
Specifications

DESCRIPTION			FEATURES				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.	
MODEL NUMBER	GAS INPUT BTU/HR.	TYPE	TEMP. RANGE	WATER FLOW RATE			CONNECTION		A HEIGHT	B WIDTH	DEPTH	VENT DIAMETER (INCHES)	SHIP WEIGHT (LBS.)	ENERGY FACTOR	D.O.E. ANN. OP. COST NAT/LP
				GPM @ 77° RISE MAX.	GPM @ 45° RISE MAX.	GPM @ 35° RISE MAX.	WATER	GAS							
RHEEM-RUUD COMMERCIAL TANKLESS WATER HEATERS															
GT-199PVN-1	19,000 - 199,900	Indoor	100° to 180° F	4.3	7.4	8.5	3/4	3/4	25-3/8	14-7/8	11-1/8	4	55	.82	\$223/\$374
GT-199XN-1	19,000 - 199,900	Outdoor	100° to 180° F	4.3	7.4	8.5	3/4	3/4	25-3/8	14-7/8	11-1/8	N/A	55	.82	\$223/\$374
GT-199DVN-1	19,000 - 199,900	Indoor Direct Vent	100° to 180° F	4.3	7.4	8.5	3/4	3/4	25-3/8	14-7/8	11-1/8	4 by 4 2-PIPE	55	.82	\$223/\$374

All models are available in Natural Gas and Propane (LP).
For Propane replace the N with P when ordering.

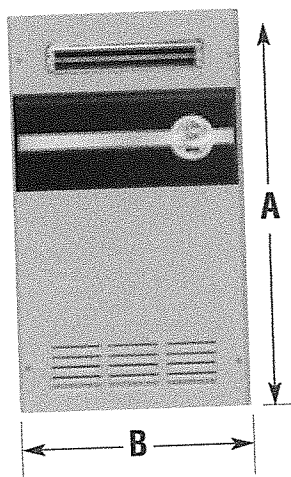
- Factory set maximum temperature is 120° F, capable of temperatures up to 180° F. See Use and Care Manual for setting.
 - For installations above 3,280 feet, a high altitude chip is required. Refer to Rheem price list or consult factory for details.
 - Consult factory for information on sizing the application.
- Installation Vent Kits available separately: 4" diameter for GT-199PV models.
Vent Termination Kits are required for Direct Vent models. Contact your distributor for details.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas \$1.218/therm; LP \$1.87/gallon.



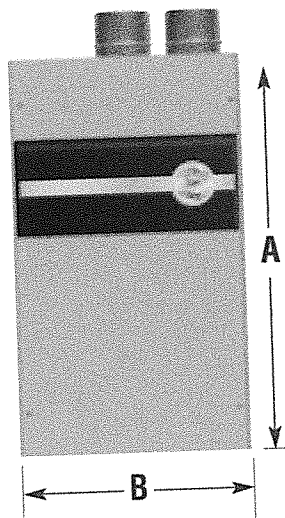
Remote Control

GT-199PV
Indoor



Remote Control

GT-199X
Outdoor



Remote Control

GT-199DV
Indoor
Direct Vent

COMMERCIAL TANKLESS SERIES

MAXIMUM HOT WATER FLOW RATE AND TEMPERATURE RISE

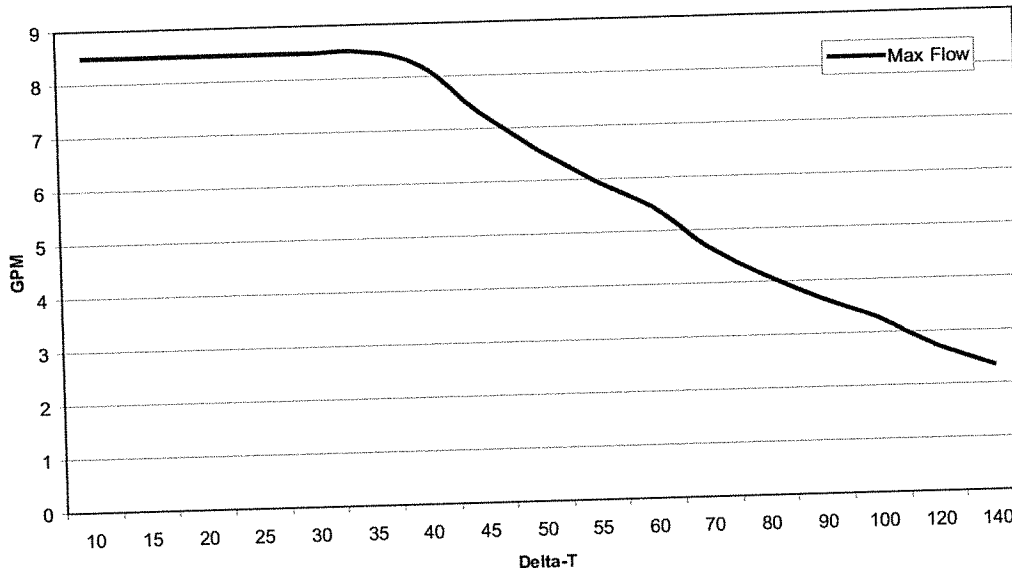
Temp. Rise (°F)	35	45	50	60	70	77	90	100	110	120	130	140
Water Flow (GPM)	8.5	7.4	6.6	5.5	4.7	4.3	3.7	3.3	3.0	2.8	2.6	2.4

Minimum flow rate required to initiate heating cycle .66 gpm.
Above estimates are for sizing purposes only.

CLEARANCE TO COMBUSTIBLES (inches)

MODEL NUMBER	SIDE	REAR	FRONT TOP & BOTTOM
GT-199PV	1/2	0	12
GT-199X	1/2	0	12
GT-199DV	1/2	0	12

Water Heater Flow Rate Curves

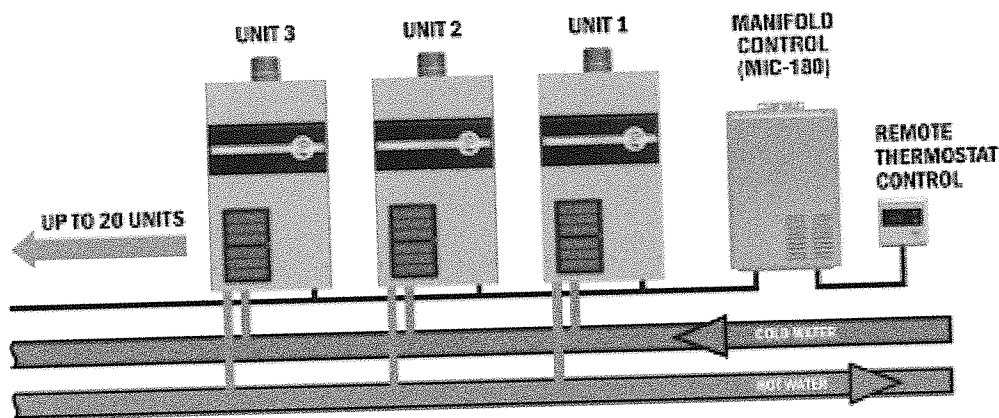


TEMP. RISE (°F)	RHEEM-RUUD GT-199 MANIFOLD INSTALLATIONS					
	FLOW RATE (GPM)					
	1 UNIT	2 UNITS	5 UNITS	10 UNITS	15 UNITS	20 UNITS
140	2.4	4.7	11.9	23.7	35.6	47.4
130	2.6	5.1	12.8	25.5	38.3	51.1
120	2.8	5.5	13.8	27.7	41.5	55.3
110	3.0	6.0	15.1	30.2	45.3	60.3
100	3.3	6.6	16.6	33.2	49.8	66.4
90	3.7	7.4	18.4	36.9	55.3	73.7
80	4.1	8.3	20.7	41.5	62.2	83.0
77	4.3	8.6	21.5	43.1	64.6	86.2
70	4.7	9.5	23.7	47.4	71.1	94.8
60	5.5	11.1	27.7	55.3	83.0	110.6
50	6.6	13.3	33.2	66.4	99.6	132.7
45	7.4	14.7	36.9	73.7	110.6	147.5
35	8.5	17.0	42.5	85.0	127.5	170.0

COMMERCIAL TANKLESS SERIES

ACCESSORIES FOR MULTI-UNIT MANIFOLD INSTALLATIONS				
PART NO.	DESCRIPTION	# OF WATER HEATERS		
		2	3 TO 6	7 TO 20
RTG20040	EZ-Link™ Cable	1	N/A	N/A
RTG20126A	MIC-180 Main Communication PCB w/ Manifold Control Box	N/A	1	1
RTG20126B	MICS-180 Extended Communications PCB	N/A	N/A	1
RTG20126C	MIC-K-16 Communications Cable (16 ft.)	N/A	3 to 6	7 to 20
RTG20126D	MIC-K-32 Communications Cable (32 ft.)	N/A	3 to 6	7 to 20
RTG20126E	MIC-K-65 Communications Cable (65 ft.)	N/A	3 to 6	7 to 20

Extensive Manifold Capacity



Up to 20 of the Commercial Tankless units can be linked in a manifold configuration to meet the hot water needs of larger applications.

These units are designed to meet or exceed ANSI (American National Standards Institute) requirements and have been tested according to D.O.E. test procedures and meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria for energy consuming appliances.

Before purchasing this appliance, read important energy cost and efficiency information available from your supplier.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

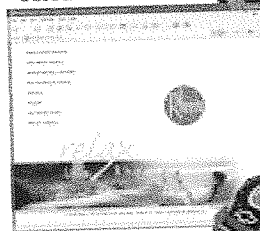
Rheem Heating, Cooling & Water Heating
101 Bell Road • Montgomery, AL 36117-4305
1-866-720-2076 • www.rheemtankless.com

Rheem Canada Ltd./Ltée • Water Heater Division
128 Barton Street West, Hamilton, Ontario L8N 3P3

Rheem manufactures residential & commercial heating, cooling & water heating products.

Printed in U.S.A. 07/08 WP Form No. RR101-50

**Race over to
Rheem.com**



Gotta Have a Rheem



**RHEEM-RUUD
CARRIES A COMPLETE LINE
OF COMMERCIAL WATER HEATERS
TO SUIT ANY APPLICATION.**

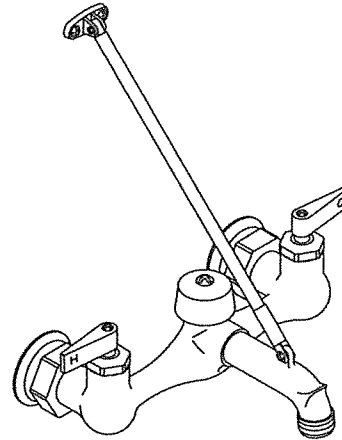
KOHLER®
FAUCETS
KINLOCK™
SERVICE SINK FAUCET
K-8907
ADA
Features

- Brass construction
- For 8" (20.3 cm) centers
- Brass valve bodies
- Valvet® valves
- Internal NPT connections
- Lever handles
- Vacuum breaker
- 4-5/8" (11.7 cm) threaded spout for hose connection
- 7-1/4" (18.4 cm) wall-to-spout outlet
- Pail hook
- Wall brace

Codes/Standards Applicable

Specified model meets or exceeds the following:

- ASME A112.18.1/CSA B125.1
- IAPMO/cUPC
- ADA


Colors/Finishes

- CP: Polished Chrome
- RP: Rough Plate

Specified Model

Model	Description	Colors/Finishes	
		☐ CP	☐ RP
K-8907	Service sink faucet		

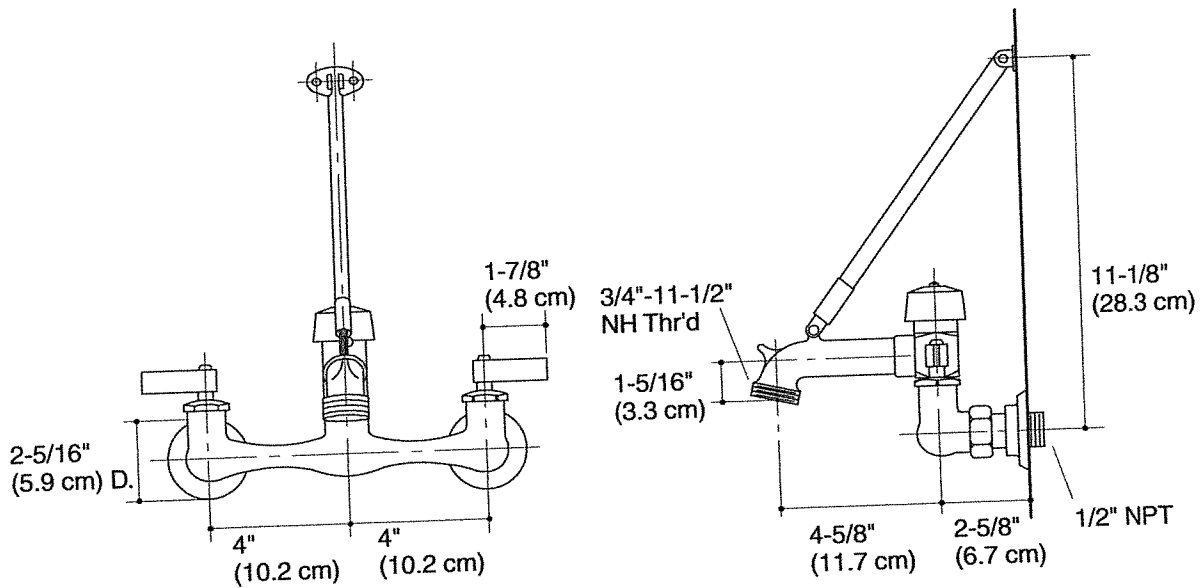
Product Specification

Two-handle service sink faucet shall be of brass construction. Faucet shall feature brass valve bodies. Faucet shall also feature Valvet valves. Product shall include 8" (20.3 cm) centers, 4-5/8" (11.7 cm) threaded spout for hose connection, 7-1/4" (18.4 cm) wall-to-spout outlet, lever handles, pail hook, vacuum breaker, wall brace, and internal NPT connections. Faucet shall be Kohler Model K-8907-_____.

KINLOCK™

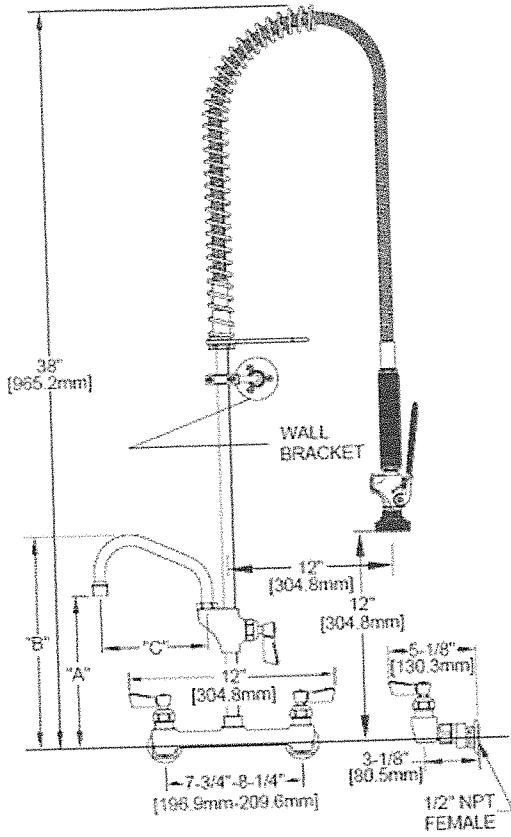
Installation Notes

Install this product according to the installation guide.



Product Diagram

3 comp. siuk



OK

ROUGH-IN	MODEL	DIM "A"	DIM "B"	DIM "C"
	34355	8-3/4" [221.3mm]	12-3/8" [313.3mm]	6" [152.4mm]
	34363	8" [227.6mm]	12-7/8" [325.0mm]	8" [203.2mm]
	34371	9-5/8" [243.5mm]	13-3/8" [340.3mm]	10" [254.0mm]
	34398	10-1/4" [259.4mm]	13-7/8" [351.4mm]	12" [304.8mm]
	34401	10-5/8" [275.0mm]	14-3/4" [373.7mm]	14" [355.6mm]
*NIPPLES NOT INCLUDED	34428	11-1/2" [292.1mm]	15-3/8" [389.5mm]	16" [406.4mm]

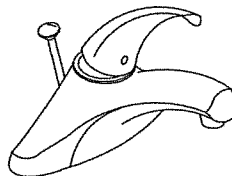


CORALAIS®

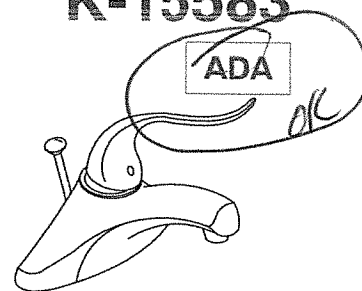
**LAVATORY FAUCET
K-15583**

Features

- Metal construction
- One-piece, self-contained ceramic disc valve allows both volume and temperature control
- Temperature memory allows faucet to be turned on and off at any temperature setting
- High-temperature limit setting for added safety
- 2.0 gallons (7.6 L) per minute flow rate [max at 60 psi (4.14 bar)]
- Metal throatplate
- Available with flexible connections or ground joints
- For 4" (10.2 cm) centers
- 4-1/4" (10.8 cm) spout reach
- Available with 4-1/2" (11.4 cm) or 5-3/4" (14.6 cm) vandal-resistant lever handle
- Vandal-resistant aerator and pop-up drain with lift rod and tailpiece



**K-15583-F
K-15583-P**



**K-15583-F5
K-15583-5P**

Codes/Standards Applicable

Specified model meets or exceeds the following:

- ASME A112.18.1
- IAPMO/UPC
- NSF 61
- Energy Policy Act of 1992
- ADA

Colors/Finishes

- CP: Polished Chrome

Specified Model

Model	Description	Colors/Finishes
K-15583-F	Coralais® lavatory faucet with 4-1/2" (11.4 cm) lever handle and flexible connections	☐ CP
K-15583-P	Coralais® lavatory faucet with 4-1/2" (11.4 cm) lever handle and ground joint connections	☐ CP
K-15583-F5	Coralais® lavatory faucet with 5-3/4" (14.6 cm) lever handle and flexible connections	☐ CP
K-15583-5P	Coralais® lavatory faucet with 5-3/4" (14.6 cm) lever handle and ground joint connections	☐ CP

Product Specification

Single-control centerset lavatory faucet shall be of metal construction. The valve shall be a one-piece, self-contained ceramic disc valve, and allows both volume and temperature control. The valve shall feature temperature memory, allowing the faucet to be turned on and off at any temperature setting, and includes a high-temperature limit stop. Product shall include 4" (10.2 cm) centers, 4-1/4" (10.8 cm) spout, vandal-resistant (VR) pop-up drain with lift rod and tailpiece, VR aerator, and VR 4-1/2" (11.4 cm) or 5-3/4" (14.6 cm) lever handle. Product shall be available with either flexible or ground joint connections. Faucet shall be Kohler Model K-15583-_____-CP

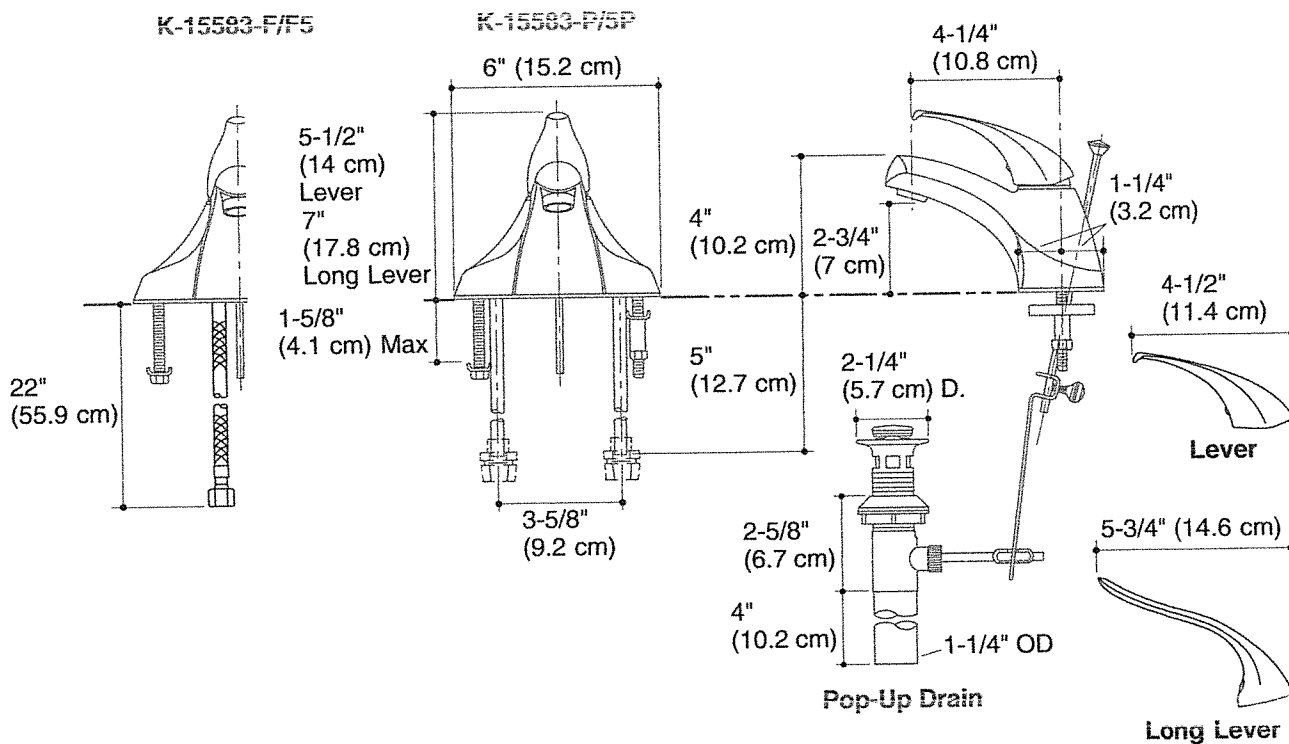
CORALAIS®

Technical Information

Applicable lavatory faucet with 4-1/2" (11.4 cm) lever handle:	
With flexible connections	K-15583-F
With ground joint connections	K-15583-P
Applicable lavatory faucet with 5-3/4" (14.6 cm) lever handle:	
With flexible connections	K-15583-F5
With ground joint connections	K-15583-5P
Lever handles are ADA compliant.	

Installation Notes

Install this product according to the installation guide.



Product Diagram

Hand wash sink
and
2 comp. sink.



TRITON™ /FINESSE™

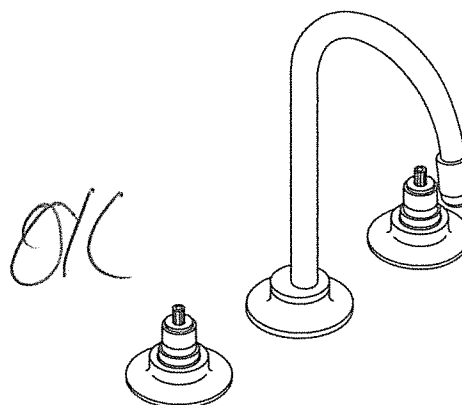
LAVATORY BASE FAUCET

K-7304-K

ALSO K-7304-5A

FEATURES

- Brass construction
- Flexible connections
- Brass valve bodies
- Quarter-turn washerless ceramic disc valves
- 5-1/4" gooseneck spout
- Available with standard or vandal-resistant Water-Guard® aerator
- 2.0 gallons per minute
- Variety of handle style options



CODES/STANDARDS APPLICABLE

Specified model meets or exceeds the following:

- ASME/ANSI A112.18.1M
- Energy Policy Act of 1992
- NSF 61

COLORS/FINISHES

- CP Polished Chrome

SPECIFIED MODEL:

BASE FAUCET: For complete faucet, both base faucet and handle choice must be specified.

Model	Description	
K-7304-K	With Standard Aerator	☐ CP
K-7304-KE	With Vandal-Resistant Aerator	☐ CP

Required Accessory (Includes Two Handles)			 ADA	 ADA	 ADA	 ADA
K-16012-2	Triton Standard Handles	☐ CP				
K-16012-3	Triton Cross Handles		☐ CP			
K-16012-4	Triton Lever Handles			☐ CP		
K-16012-5	Triton Wristblade Lever Handles				☐ CP	
K-16022-5	Finesse Wrist Control Lever Handles					☐ CP

COMPLETE FAUCET: Faucet handles included.

K-7304-5A	With Wristblade Handles and Standard Aerator	☐ CP
-----------	--	-----------------------------

Optional Accessory on Page 2.

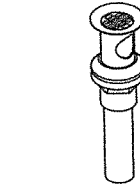
PRODUCT SPECIFICATION:

Two-handle widespread lavatory base faucet shall be of brass construction. Faucet shall feature brass valve bodies. Faucet shall feature quarter-turn washerless ceramic disc valves, assuring positive handle stop positioning. Product shall be less drain and lift rod. Product shall include flexible connections, and 5-1/4" gooseneck spout. Optional feature shall be standard or vandal-resistant Water-Guard aerator. Base faucet shall be Kohler Model K-7304-_____-CP and handles shall be Kohler Model K-_____-_____-CP OR complete faucet shall be Kohler Model K-7304-5A-CP.

TRITON™ /FINESSE™

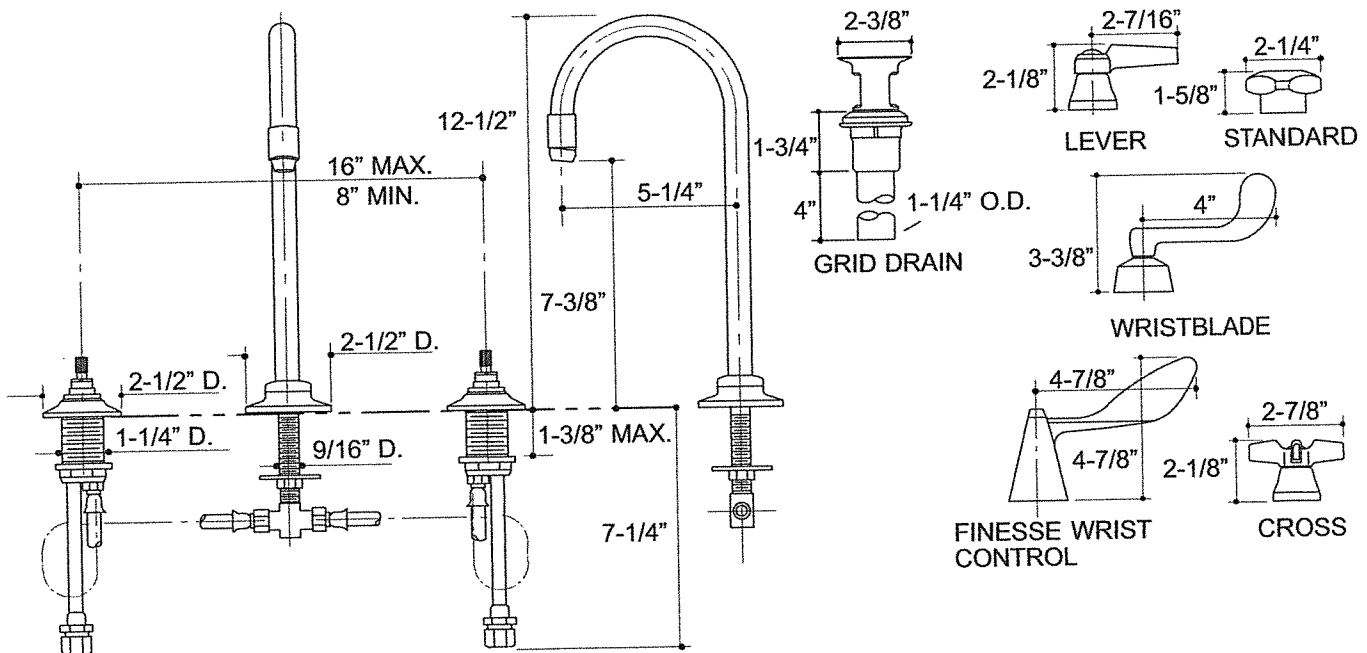
Optional Accessory

K-7715 Grid Drain



☐ CP

☐ PB



316

PRODUCT DIAGRAM

Item # _____

Quantity _____

C.S.I. Section 11400

HOBART

FOOD EQUIPMENT

LXi
DISHMACHINE

HOBART

LXi DISHMACHINE

STANDARD FEATURES

- 30 racks per hour
- Hot water or chemical sanitation
- Low chemical alert indicator (on machines ordered with pumps)
- 70°F rinse booster heater on LXIH models
- Delime notification/cycle
- Chemical pump "auto-prime"
- Service diagnostics
- Fresh water rinse – 1.2 gallons per rack
- 16 gauge stainless steel tank, door and top panel
- Microcomputer, top mounted controls with digital cycle/temperature display
- Revolving upper and lower anti-clogging wash arms
- Revolving upper and lower anti-clogging rinse arms
- Removable stainless steel scrap screen
- Corrosion resistant pump
- Automatic pumped drain
- 17" door opening
- Automatic fill
- Labyrinth-type door seal
- Electric tank heat
- Two dishracks – one peg and one combination-type

STANDARD VOLTAGES

- ☐ 120/60/1 (LXiC model only)
- ☐ 120/208-240(3W)/60/1

OPTIONS AT EXTRA COST

- ☐ 208-240(2W)/60/1
- ☐ Detergent and rinse aid pumps

ACCESSORIES

- ☐ Power cord kits
- ☐ Stainless steel base with 6" legs
- ☐ 17" stainless steel stand
- ☐ Pressure regulator valve

Specifications, Details and Dimensions on Inside and Back.



LXi DISHMACHINE



WARNING:

REQUIRED FLOWING WATER PRESSURE TO THE DISHMACHINE IS 20 ± 5 PSIG. IF PRESSURES HIGHER THAN 25 PSIG ARE PRESENT, A PRESSURE REGULATING VALVE MUST BE INSTALLED IN THE WATER LINE TO THE DISHMACHINE (BY OTHERS).

IMPORTANT: THE SODIUM HYPOCHLORITE (LIQUID BLEACH) CONTAINER SHOULD BE PLACED NO HIGHER THAN 10" ABOVE FLOOR.

IF BLEACH CONTAINER IS TO BE PLACED IN CABINET ADJACENT TO MACHINE, A 1/2" DIA. HOLE IS REQUIRED IN THE CABINET TO RUN BLEACH SUPPLY LINE.

USE ONLY 5.2% OR 8.4% SODIUM HYPOCHLORITE (LIQUID BLEACH) AS SANITIZING CHEMICAL TO INSURE PROPER OPERATION OF DISHMACHINE.

DO NOT PRE-MIX WETTING AGENT AND SODIUM HYPOCHLORITE (LIQUID BLEACH).

CERTAIN MATERIALS INCLUDING SILVER PLATE, ALUMINUM AND PEWTER ARE ATTACKED BY SODIUM HYPOCHLORITE (LIQUID BLEACH). SEE INSTRUCTIONAL MANUAL.

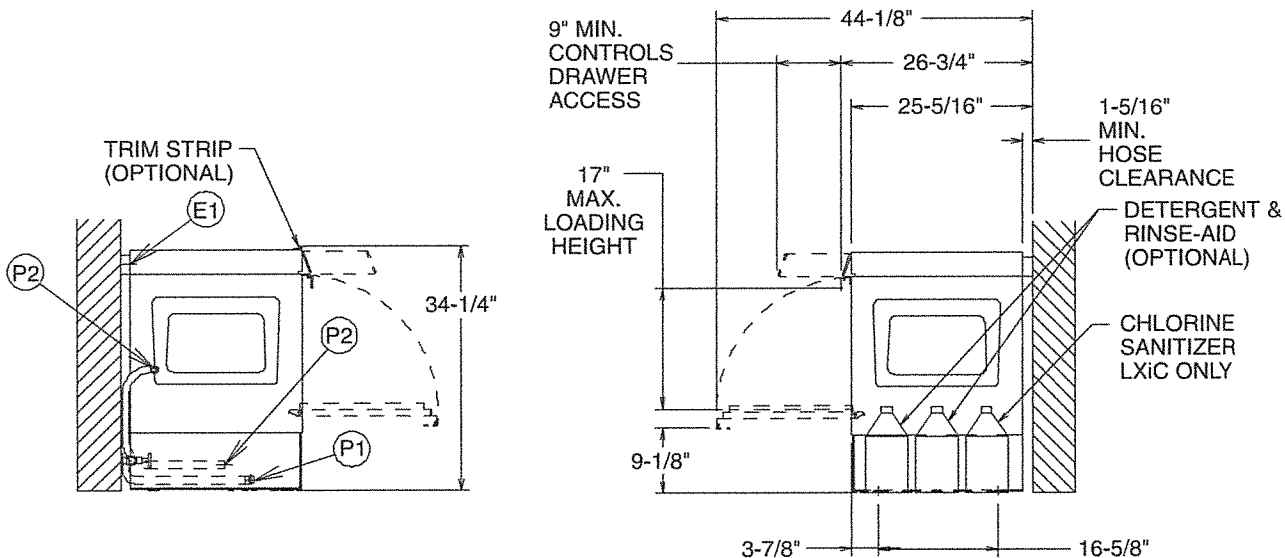
NOTES:

1. ALL VERTICAL MACHINE DIMENSIONS TAKEN FROM FLOOR MAY BE INCREASED BY 1".
2. MOIST AIR ESCAPES FROM THE DOOR.
USE ONLY MOISTURE RESISTANT MATERIALS ADJACENT TO LXI SIDES AND TOP.
3. A VENT HOOD IS NOT RECOMMENDED ABOVE THE LXI UNDERCOUNTER DISHWASHER SINCE IT DOES NOT PRODUCE EXCESSIVE VAPORS

PLUMBING NOTES:

1. WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD OR EQUIVALENT) TO BE SUPPLIED (BY OTHERS) IN COMMON WATER SUPPLY LINE AT SERVICE CONNECTION.
2. RECOMMENDED WATER HARDNESS TO BE 4-6 GRAINS FOR BEST RESULTS.
3. MINIMUM WATER CONDUCTIVITY REQUIRED - 30 MICRO-MHOS/CM.

⚠️ IF DRAIN HOSE IS LOOPED ABOVE A SINK, THE LOOP MUST NOT EXCEED 38" AFF.



MACHINE TYPE & SPECIFICATION	RATED AMPS	MIN SUPPLY CKT CONDUCT AMPACITY	MAX PROTECTIVE DEVICES
LXiC (120/60/1) USE 90°C STRANDED COPPER WIRE ONLY.	15.4	20	20
LXiC (120/208-240(3W)/60/1*) LXiC (208-240/60/1) USE 90°C STRANDED COPPER WIRE ONLY.	13.6	20	20
LXiH (120/208-240(3W)/60/1*) LXiH (208-240/60/1) USE 90°C STRANDED COPPER WIRE ONLY.	37.7	50	50

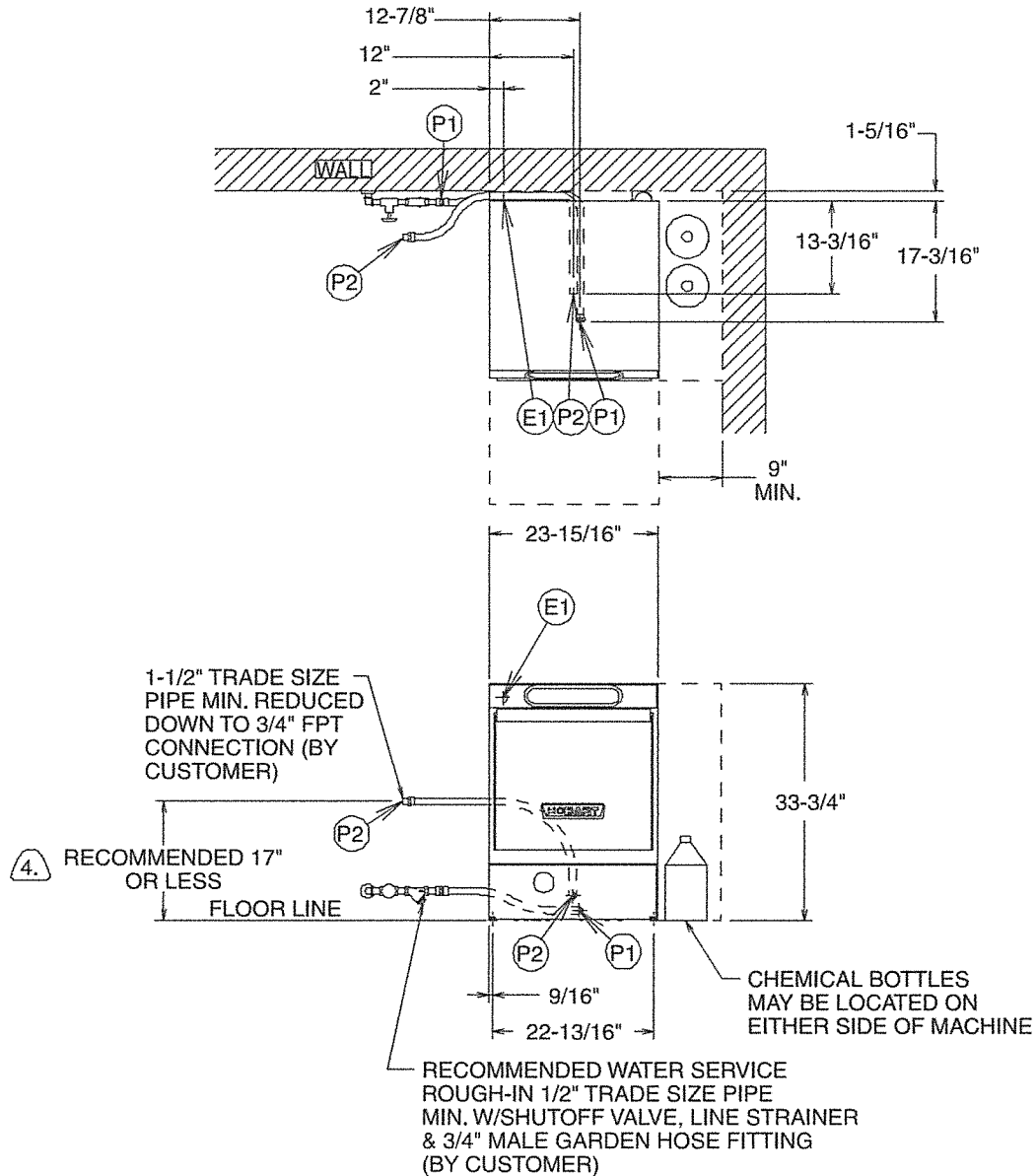
CONNECTION INFORMATION (AFF = ABOVE FINISHED FLOOR)

LEGEND

- E1 ELECTRICAL CONNECTION: 1-3/8" DIA. HOLE FOR 1" TRADE SIZE CONDUIT; 31-3/4" AFF.
- P1 SINGLE FILL AND RINSE CONNECTION: 3/4" FEMALE GARDEN HOSE FITTING ON 6' LONG HOSE SUPPLIED WITH MACHINE; 140°F WATER MIN. FOR LXIC & LXIH 1-1/2" AFF.
- P2 DRAIN CONNECTION: 3/4" MPT FITTING WITH 6' LONG HOSE SUPPLIED WITH MACHINE; 3-9/16" AFF.

HOBART

FOOD EQUIPMENT

**LXi
DISHMACHINE**

* THIS SYSTEM REQUIRES THREE POWER WIRES WHICH INCLUDES A CURRENT CARRYING NEUTRAL, AN ADDITIONAL FOURTH WIRE MUST BE PROVIDED FOR MACHINE GROUND.

ACCESSORY CORD KITS AVAILABLE FOR ALL MACHINES

WARNING

ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES. DRAIN AND FILL LINE CONFIGURATIONS VARY, SOME METHODS ARE SHOWN ON THIS DRAWING.

SHIPPING WEIGHTS (LBS)	LXiC	LXiH
NET WEIGHT OF MACHINE	190 lbs.	210 lbs.
DOMESTIC SHIPPING WEIGHT	235 lbs.	255 lbs.

MODELS:
LXiC, LXiH
892882

LXi DISHMACHINE

HOBART

FOOD EQUIPMENT

SPECIFICATIONS

DESIGN: Front opening, equipped for installation of both freestanding and undercounter-type operations.

CONSTRUCTION: 304 series stainless steel tank, door and top panel.

PUMP: Centrifugal-type, integral with motor, horizontally mounted. Pump capacity 54 gpm.

MOTOR: ¾" H.P., single phase, split-phase type, furnished for 120/60/1 or 208-240/60/1 electrical specification. Factory sealed lubrication. Inherent overload protection with auto reset.

WASH AND RINSE CYCLE: Complete automatic type, controlled by solid-state electronics. Cycle may be interrupted any time by opening door. Cycle continues when door is closed.

- Initial cycle fills wash tank, to be recirculated each wash cycle. Some wash water is drained off before rinse cycle. Rinse cycle refreshes wash water and tank heat.

RINSE AND SANITATION:

- LXiH:** Sanitation is accomplished by means of a built-in booster heater designed to raise temperature of water to a minimum of 180°F from an incoming water temperature of 110°F.

- LXiC:** Sanitation is accomplished by injection of proper amount of sodium hypochlorite solution (liquid bleach) into final rinse water to achieve a minimum of 50PPM sanitizing solution. Injection of sodium hypochlorite is accomplished by a built-in sanitizing chemical pump.

PUMPED DRAIN: Machine automatically drains water through a built-in pump. Maximum 17" drain height permitted.

RACKING: Machines accommodate racks from 10" x 20" to 20" x 20". Also accepts 16" x 18" cafeteria trays.

CAUTION: Certain materials, including silver, aluminum and pewter are attacked by Sodium Hypochlorite solution in the chemical sanitizing mode of operation.

SPECIFICATIONS: Listed by Underwriters Laboratories Inc. and NSF International.

MACHINE RATINGS	LXiC	LXiH
Racks per Hour Rate		30
Dishes per Hour (25 per Rack Avg.)		750
Glasses per Hour (36 per Rack Avg.)		1080
Wash Motor - H.P.		¾
Controls		Microcomputer
Tank Capacity - Gallons		3
Overall Dimensions - H x W x D		33¾" x 23½" x 26¾"
Cycle Time - Minutes		2
Tank Heat		1.5 KW
Electric Booster Heater	N/A	6 KW
Water Usage Per Rack - Gallons		1.2
Drain Design		Pumped
Door Opening Height		17"
Chemical Connection Capability		Standard
Detergent Pump		Optional
Rinse-Aid Pump		Optional (W/Det Pump)
Sanitizer Pump	Standard	N/A
Chemical Prime (auto prime)		Standard
Peak Drain Flow - GPM		10
Service Diagnostics		Standard
70° Rise Booster	N/A	Standard

As continued product improvement is a policy of Hobart, specifications are subject to change without notice.

701 S Ridge Avenue, Troy, OH 45374 • 937-332-3000 • 1-800-333-7447

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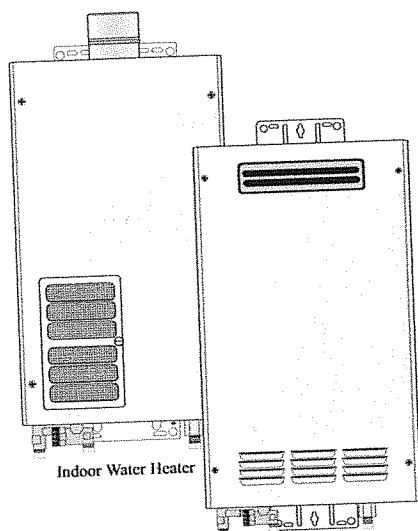
Use & Care Manual

With Installation Instructions for the Installer

Indoor and Outdoor Gas

Tankless Water Heater

▲ Warning: This water heater is not suitable for use in manufactured (mobile) homes!



The purpose of this manual is twofold: one, to provide the installer with the basic directions and recommendations for the proper installation and adjustment of the water heater; and two, to the owner-operator, to explain the features, operation, safety precautions, maintenance and troubleshooting of the water heater. This manual also includes a parts list.

It is very important that all persons who are expected to install, operate or adjust this water heater read the instructions carefully so they may understand how to perform these operations. If you don't understand these instructions or any terms within it, seek professional assistance.

Any questions regarding the operation, maintenance, service or warranty of this water heater should be directed to the seller from whom it was purchased. If additional information is required, refer to the section on If You Need Service.

Do not destroy this manual. Please read carefully and keep in a safe place for future reference.

! Recognize this symbol as an indication of Important Safety Information!

! California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Paloma:

PH-28 RIFS (N,P)
PH-28 ROF (N,P)
PH-28 CIFS (N,P)
PH-28 COF (N,P)

Paloma:

PTG-74PV(N,P)
PTG-74X(N,P)

Rheem:

RTG-74PV(N,P)
RTG-74X(N,P)

Richmond:

RMTG-74PV(N,P)
RMTG-74X(N,P)

Ruud:

RUTG-74PV(N,P)
RUTG-74X(N,P)

Rheem/Ruud

GT-199PV(NP)



WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.

▲ FOR YOUR SAFETY!

— Do not store or use gasoline or other flammable vapors or liquids or other combustible materials in the vicinity of this or any other appliance. To do so may result in an explosion or fire.

— **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 neighbor's phone. Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.
- Do not return to your home until authorized by the gas supplier or fire department.
- Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or death. Refer to this manual. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

① 31-51905-001



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FOR YOUR RECORDS

Write the model and serial numbers here:

You can find them on a label on the appliance.

Staple sales slip or cancelled check here.

Proof of the original purchase date is needed to obtain service under the warranty.



READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your water heater properly. A little preventive care on your part can save you time and money over the life of your water heater.

You'll find many answers to common problems in the Troubleshooting Guide. If you review the chart of Troubleshooting Tips first, you may not need to call for service.



READ THE SAFETY INFORMATION

Your safety and the safety of others are very important. There are many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol. Recognize this symbol as an indication of Important Safety Information! This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER", "WARNING", "CAUTION" or "NOTICE".

These words mean:

DANGER

An imminently hazardous situation that will result in death or serious injury.

WARNING

A potentially hazardous situation that could result in death or serious injury and/or damage to property.

CAUTION

A potentially hazardous situation that may result in minor or moderate injury.

Notice:

Attention is called to observe a specified procedure or maintain a specific condition.

IMPORTANT SAFETY INFORMATION. READ ALL INSTRUCTIONS BEFORE USING.

Be sure to read and understand the entire Use and Care Manual before attempting to install or operate this water heater. It may save you time and money. Pay particular attention to the Safety Instructions. Failure to follow these warnings could result in serious bodily injury or death. Should you have problems understanding the instructions in this manual, or have any questions, STOP, and get help from a qualified service technician, or the local gas utility.

DANGER!

INSTALL AND PROPERLY VENT THE WATER HEATER...

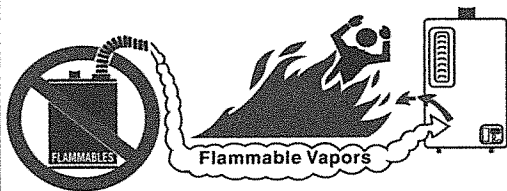
Failure to install and properly vent the water heater to the outdoors as outlined in the Venting Section of the Installation Instructions in this manual can result in unsafe operation of the water heater. To avoid the risk of fire, explosion or asphyxiation from carbon monoxide, never operate this water heater unless it is properly vented and has an adequate air supply for proper operation.

Be sure to inspect the vent outlet on the OUTDOOR water heater, or the vent terminal and the vent system on the INDOOR water heater for proper installation at initial start-up; and at least annually thereafter. Refer to the Care and Cleaning section of this manual for more information regarding vent system inspection.

WARNING!

Gasoline, as well as other flammable materials and liquids (adhesives, solvents, paint thinners etc.), and the vapors they produce are extremely dangerous. DO NOT handle, use or store gasoline or other flammable or combustible materials anywhere near or in the vicinity of a water heater or any other appliance. Be sure to read and follow the labels on the water heater, as well as the warnings printed in this manual. Failure to do so can result in property damage, bodily injury or death.

▲ DANGER



▲ Vapors from flammable liquids will explode and catch fire causing death or severe burns.
Do not use or store flammable products such as gasoline, solvents or adhesives in the same room or area near the water heater.
Keep flammable products:
1. far away from heater,
2. in approved containers,
3. tightly closed and
4. out of children's reach.

Water heater has a main burner flame.
The main burner flame:
1. which can come on at any time and
2. will ignite flammable vapors.
Vapors:
1. cannot be seen,
2. are heavier than air,
3. go a long way on the floor and
4. can be carried from other rooms to the main burner flame by air currents.

Installation:
Do not install water heater where flammable products will be stored or used unless the main burner flame is at least 18" above the floor. This will reduce, but not eliminate, the risk of vapors being ignited by the main burner flame.

Read and follow water heater warnings and instructions. If owners manual is missing, contact the retailer or manufacturer.

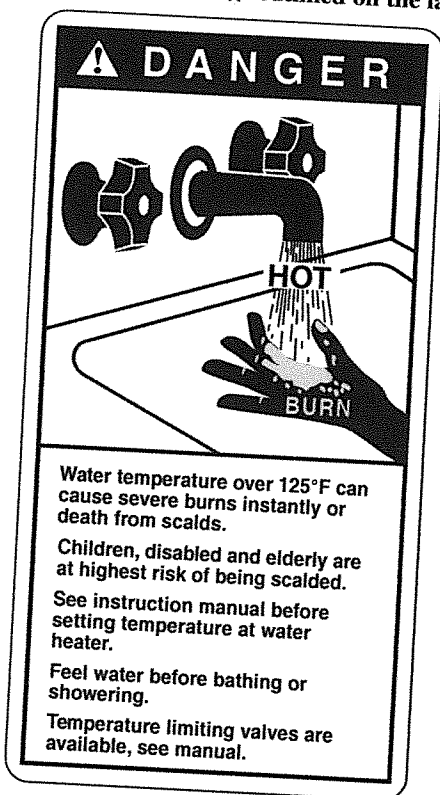
IMPORTANT SAFETY INFORMATION READ ALL INSTRUCTIONS BEFORE USING.



⚠ DANGER!

WATER TEMPERATURE SETTING

Safety and energy conservation are factors to be considered when selecting the water temperature setting of a water heater's remote control. Water temperatures above 125°F (52°C) can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined on the label pictured below.



Time/Temperature Relationship in Scalds

Water Temperature	Time To Produce a Serious Burn
120°F (49°C)	More than 5 minutes
125°F (52°C)	1½ to 2 minutes
130°F (54°C)	About 30 seconds
135°F (57°C)	About 10 seconds
140°F (60°C)	Less than 5 seconds
145°F (63°C)	Less than 3 seconds
150°F (66°C)	About 1½ seconds
155°F (68°C)	About 1 second

Table courtesy of Shriners Burn Institute

The chart shown above may be used as a guide in determining the proper water temperature for your home.

⚠ DANGER: Households with small children, disabled or elderly persons may require a 120°F (49°C) or lower temperature setting to prevent contact with "HOT" water.

Maximum water temperature occurs while burner is on. To find water temperature being delivered, turn on a hot water faucet and place a thermometer in the water stream and read the thermometer. (See page 27 & 28 for more details.)

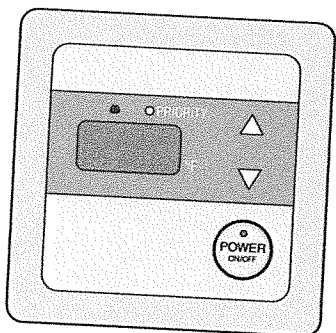
The temperature of the water at the outlet of the water heater can be regulated by setting the temperature on Remote Control. The remote control was set at 100°F (38°C) before it was shipped from the factory.

The diagram to the bottom left illustrates the Remote Control and how to adjust the water temperature.

Notice: The factory setting allows operating temperatures between 100°F (38°C) and 120°F (49°C). Temperatures of up to 140°F (60°C) for Light duty models and up to 180°F (82°C) for Heavy Duty models can be achieved with the MAIN (UMC-117) remote control and a dip switch adjustment. Only qualified service personnel should perform this adjustment. Only factory authorized remote control(s) should be used.

Notice: When this water heater is supplying general purpose hot water requirements for use by individuals, a thermostatically controlled mixing valve for reducing point of use water temperature is recommended to reduce the risk of scald injury. Contact a licensed plumber or the

Notice:
Display
shows
°F only.



⬆ Higher (Hotter) ⬇ Lower (Cooler)

100	102	104	106	108	110	112	114	116	118	120*	125	130	135	140	150	160	170	180
38	39	40	41	42	43	44	46	47	48	49*	52	54	57	60	66	71	77	82

temperatures up to 180°F (82°C).

* Temperatures above 120°F (49°C) can be achieved by adjusting the dip switch. See page 35 for dip switch adjustment.



! DANGER!

NATURAL GAS AND LIQUEFIED PETROLEUM MODELS

Both LP and natural gas have an odorant added to aid in detecting a gas leak. Some people may not physically be able to smell or recognize this odorant. If you are unsure or unfamiliar with the smell of LP or natural gas, ask the gas supplier. Other conditions, such as “odorant fade”, which causes the odorant to diminish in intensity, can also hide or camouflage a gas leak.

- Water heaters utilizing LP gas are different from natural gas models. A natural gas water heater will not function safely on LP gas and vice versa.
 - No attempt should ever be made to convert the water heater from natural gas to LP gas. To avoid possible equipment damage, personal injury or fire, do not connect the water heater to a fuel type not in accordance with the unit data plate; propane for propane units and natural gas for natural gas units. These units are not certified for any other fuel type.
 - LP appliances should not be installed below grade (for example, in a basement) if such installation is prohibited by federal, state and/or local laws, rules, regulations or customs.
 - Propane or LP gas must be used with great caution. It is heavier than air and will collect first in lower areas, making it hard to detect at nose level.
 - Before attempting to light the water heater, make sure to look and smell for gas leaks. Use a soapy solution to check all gas fittings and connections. Bubbling at a connection indicates a leak that must be corrected. When smelling to detect a gas leak, be sure to sniff near the floor also.
 - Gas detectors are recommended in LP and natural gas applications and their installation should be in accordance with the detector manufacturer's recommendations and/or local laws, rules, regulations or customs.
 - It is recommended that more than one method, such as soapy solution, gas detectors, etc., be used to detect leaks in gas applications.
- Notice: If a gas leak is present or suspected:
- Do not attempt to find the cause yourself.
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - Leave the building immediately and make sure your family and pets leave also.
 - Leave the doors open for ventilation and contact the gas supplier, a qualified service agency or the fire department.
 - Stay away from the building until the service call has been made, the leak is corrected and a qualified agency has determined the area to be safe.

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE USING.

WARNING!

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury or loss of life.



FOR INSTALLATIONS IN THE STATE OF CALIFORNIA

California Law requires that water heaters must be braced, anchored or strapped to resist falling or horizontal displacement due to earthquake motions. For water heaters up to 52 gallon capacity, a brochure with generic earthquake bracing instructions can be obtained from:

916-445-8100 or ask a water heater dealer.

However, applicable local codes shall govern installation. For residential water heaters of a capacity greater than 52 gallons or tankless-style, consult the local building jurisdiction code for acceptable bracing procedures.



SAFETY PRECAUTIONS

Have the installer show you the location of the gas shut-off valve and how to shut it off if necessary. Turn off the manual shut-off valve if the water heater has been subjected to overheating, fire, flood, physical damage or if the gas supply fails to shut off.

- Read this manual entirely before installing or operating the water heater.
- Use this appliance only for its intended purpose as described in this Use and Care Manual.
- Be sure your appliance is properly installed in accordance with local codes and the provided installation instructions.
- Do not attempt to repair or replace any part of your water heater unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.



READ AND FOLLOW THIS SAFETY INFORMATION CAREFULLY.
SAVE THESE INSTRUCTIONS

Installing the (OUTDOOR) water heater:

This water heater must be installed in accordance with these instructions, local codes, utility company

Standard/National Fuel Gas Code. A copy can be purchased from either the American Gas Association, 400 North Capitol Street Northwest, Washington, DC 20001 as ANSI standard Z223.1 or National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269 as NFPA 54. In Canada, the latest edition of the CSA

absence of local codes.

Location of the OUTDOOR water heater

The water heater shown on the left is for OUTDOOR installation ONLY!

This water heater is an outdoor model and must be mounted vertically. It must not be installed indoors or in a confined space.

The water heater should be installed close to the most frequently used outlet and its position chosen with safety and service in mind.

Make sure people (particular children, disabled, and elderly) will not touch the hot water outlet or the flue terminal. The flue terminal and air inlet must be clear of obstruction and shrubbery.

The water heater should not be located in an area where leakage of the heat exchanger or connections will result in damage to the area adjacent to it or to lower floors of the structure.

A gas fired water heater or any other appliance should not be installed in a space where liquids which give off flammable vapors are to be used or stored. Such liquids include gasoline, LP gas (butane or propane), paint or adhesives and their thinners, solvents or removers.

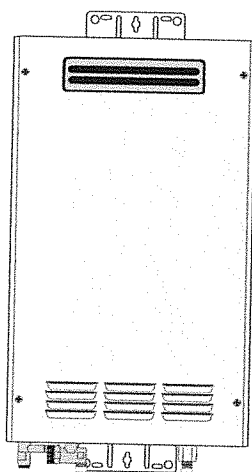
Because of natural air movement in a room or other enclosed space, flammable vapors can be carried some distance from where their liquids are being used or stored. The open flame of the water heater's main

explosion or fire which may result in severe burns, death or property damage.

The water heater must be located so it is not subject to physical damage, for example, by moving vehicles, area flooding, etc.

- The water heater should be installed vertically with the water, gas and power connections on the underside pointing toward the ground.
- Failure to properly install the water heater outdoors as outlined in this manual can result in unsafe operation.
- Hot and cold water lines should be insulated to conserve water and energy.
- The water heater and water lines should be protected from exposure to freezing temperatures.
- Do not install water heater where subject to vibrations.
- Do not install the water heater in Recreational Vehicles, Mobile Homes, Boats and other Watercrafts.
- Do not install the water heater near vents for heating or cooling. A minimum of 4 feet should be maintained.
- Minimum clearance from combustible and noncombustible construction is 1/2" (1.3 cm) sides, 0" rear (with support bracket); 12" (30 cm) from the bottom; 12" (30 cm) from the front of the water heater; (24" [61 cm] from front recommended for servicing purposes). If the clearances stated on the Instruction/

of the heater differ, install the water heater according to the clearances stated on the label

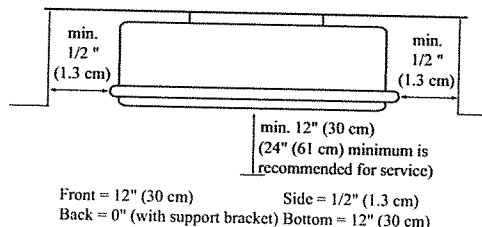


Outdoor Water Heater

⚠ WARNING: Combustible construction refers to adjacent walls and ceilings and should not be confused with combustible or flammable products and materials. Combustible and/or flammable products and materials should never be stored in the vicinity of this or any gas appliance.

⚠ CAUTION: Protect plastic, paint or other items sensitive to heat using non-combustible insulation if these are exposed to the flue exhaust even though they may be more than 24" (61 cm) away from the water heater.

Minimum Clearance from Combustible and Non-Combustible Construction.



Top: Do not install this water heater under an overhang less than 36" (91 cm) from its top. The area under the overhang must be open on 3 sides.

Installing the (INDOOR) water heater :

This water heater must be installed in accordance with these instructions, local codes, utility company

Standard/National Fuel Gas Code. A copy can be purchased from either the American Gas Association, 400 North Capitol Street Northwest, Washington, DC 20001 as ANSI standard Z223.1 or National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269 as NFPA 54. In Canada, the latest edition of the CSA

absence of local codes.

Location of INDOOR Water Heater

The water heater shown on the left is for INDOOR installation ONLY!

The water heater should not be located in an area where leakage of the heat exchanger or connections will result in damage to the area adjacent to it or to lower floors of the structure.

When such areas cannot be avoided, it is recommended that a suitable catch pan, adequately drained, must be installed under the water heater.

The pan must not restrict combustion air flow.

A gas fired water heater or any other appliance should not be installed in a space where liquids which give off flammable vapors are to be used or stored. Such liquids include gasoline, LP gas (butane or propane), paint or adhesives and their thinners, solvents or removers.

Because of natural air movement in a room or other enclosed space, flammable vapors can be carried some distance from where their liquids are being used or stored. The open flame of the water heater's main burner can ignite these vapors causing an explosion or fire which may result in severe burns, death or property damage.

The water heater must be located so it is not subject to physical damage, for example, by moving vehicles, area flooding, etc.

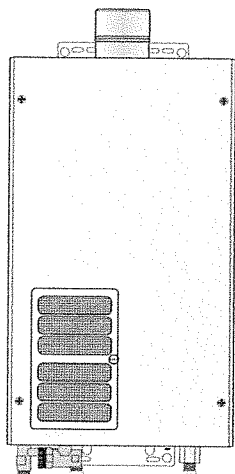
If the water heater is installed in a garage, it should be installed so that the direct ignition system and main burner are no less than 18 inches (45 cm) above the garage floor.

Raising the gas fired water heater will reduce BUT NOT eliminate the possibility of lighting the vapor of any flammable liquids which may be improperly stored or accidentally spilled.

The water heater should be installed as close as practical to the vent termination to

minimize vent length and the number of elbows required for venting.

- The water heater **should** be installed with the proper venting materials and termination suitable for **Category III** venting.
- A fire stop plate should be installed at every penetration of a floor or ceiling if the vent is not running in a fire rated shaft.
- Failure to install and properly vent the water heater to the outdoors as outlined in the Venting Section of this manual can result in unsafe operation.
- Long hot water lines should be insulated to conserve water and energy.
- The water heater and water lines should be protected from exposure to freezing temperatures.
- **Do not** install the water heater in bathrooms, bedrooms, any occupied rooms normally kept closed, or in outdoor areas.
- **Do not** install the water heater in small, poorly ventilated rooms, or in airtight rooms with air conditioning.
- **Do not** install water heater where subject to vibrations.
- **Do not** install the water heater in Recreational Vehicles, Mobile Homes, Boats and other Watercrafts.
- **Do not** install the water heater near vents for heating or cooling. A minimum of 4 feet (1.2 m) should be maintained.
- Minimum clearance from combustible and non-combustible construction is 1/2" (1.3 cm) sides, 0" rear (with support bracket); 12" (30 cm) from the bottom; 12" (30 cm) from the front of the water heater; and 12" (30 cm) from the top (24" [61 cm] from front and top is recommended for servicing purposes).
- Maintain a minimum clearance of 3" (8 cm) around the vent pipe to combustible or non-combustible construction, unless otherwise specified by vent manufacturer or installed in an enclosed space. If the clearances stated on the Instruction/Warning Label, located on the front panel of the heater differ, install the water heater according to the clearances stated on the label.

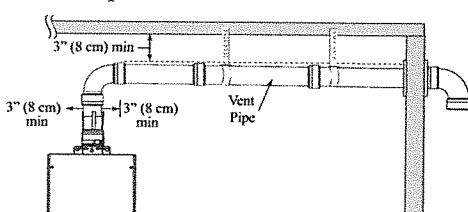
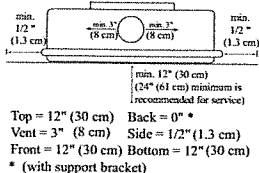


Indoor Water Heater

⚠ WARNING: Combustible construction refers to adjacent walls and ceilings and should not be confused with combustible or flammable products and materials. Combustible and/or flammable products and materials should never be stored in the vicinity of this or any gas appliance.

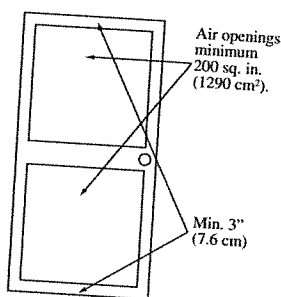
⚠ WARNING: Follow vent manufacturer's instruction while installing vent. If required, provide additional clearances from vent to combustibles per vent manufacturer's instruction.

Minimum Clearance from Combustible and Non-Combustible Construction.



Proper operation of the water heater requires air for combustion and ventilation. Provisions for combustion and ventilation air must comply with referenced codes and standards.

Combustion and Ventilation Air (Indoor Water Heater Only)



⚠ DANGER: OUTDOOR
water heaters must not be installed indoors or in a confined space. Install outdoor water heaters outdoors only.

NOTICE: If the water heater is installed in an unconfined space within a building of conventional frame, masonry or metal construction, infiltration air is normally adequate for proper combustion and ventilation. If the water heater is installed in a confined space, provisions for combustion and ventilation air must be made.

A confined space is one having a volume of less than 50 cubic feet (1.4 m³) per 1000 Btuh (0.3 kw) of the aggregate input of all appliances within that space.

The air must be supplied through two permanent openings of equal area. One is to be located within 12" (30 cm) above the floor and the other is to be located within 12" (30 cm) below the ceiling.

The minimum net free area of each opening must not be less than one square inch (6.5 cm²) per 1000 Btuh (0.3 kw) of the total input rating of all the appliances in the enclosure (but not less than 100 square inches [650 cm²]) if each opening communicates with other unconfined areas inside the building. The above requirements shall be used unless: national, provincial, or local codes govern

Buildings of unusually tight construction shall have the combustion and ventilation air supplied from outdoors, or a freely

ventilated attic or crawl space.

If air is supplied from outdoors, directly or through vertical ducts, there must be two openings located as specified above and each must have a minimum net free area of not less than one square inch (6.5 cm²) per 4000 Btuh (1.2 kw) of the total input rating of all the appliances in the enclosure.

If horizontal ducts are used to communicate with the outdoors, each opening must have a minimum net free area of not less than one square inch (6.5 cm²) per 2000 Btuh (0.6 kw) of the total input rating of all the appliances in the enclosure. If ducts are used, the minimum dimensions of rectangular air ducts shall not be less than 3" (7.6 cm).

NOTICE: If the duct openings which supply combustion and ventilation air are to be covered with a protective screen or grill, the net free area (openings in the material) of the covering material must be used in determining the size of the openings. Protective screening for the openings must NOT be smaller than 1/4" (0.64 cm) mesh to prevent clogging by lint or other debris.

Additional installation information for the Commonwealth of Massachusetts is located on the back page of this manual.

should not be installed near an air supply containing halogenated hydrocarbons.

The air in beauty shops, dry cleaning establishments, photo processing labs, and storage areas for liquid and powdered bleaches or swimming pool chemicals often contains such halogenated hydrocarbons.

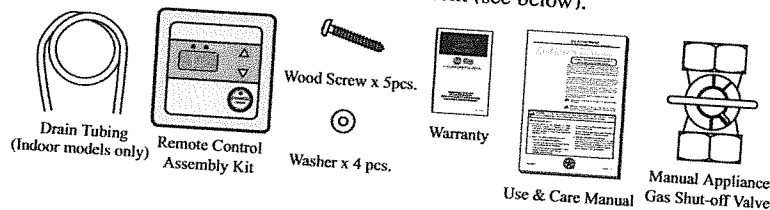
hydrocarbons may be safe to breathe, but when it passes through a gas flame, corrosive elements are released that

will shorten the life of any gas burning appliance.

Propellants from common spray cans or gas leaks from A/C and refrigeration equipment are highly corrosive after passing through a flame.

The water heater warranty is voided when failure of the heater is due to operation in a corrosive atmosphere.

Inspect the water heater for possible damage. Check the markings on the rating plate of the water heater to be certain the type of gas supplied corresponds to the water heater requirements. Verify all included parts are present (see below).



Installing the (INDOOR) water heater:

The water heater must be installed with a 4" diameter UL approved Category III Stainless Steel appliance vent pipe and an appropriate adapter.

⚠ DANGER: Failure to install the appliance vent adapter and properly vent the water heater to the outdoors as outlined in the Venting section of this manual will result in unsafe operation of the water heater, causing death, serious injury, explosion, or fire. To avoid the risk of fire, explosion, or asphyxiation from carbon monoxide, NEVER operate the water heater unless it is properly vented and has adequate air supply for proper operation as outlined in the Venting section of this manual.

⚠ WARNING: Use 4" UL approved Category III Stainless Steel vent material only. No other vent material is permitted.

⚠ WARNING: Refer to page 8 for clearances to combustible material.

Venting

The installation of venting must comply with national codes, local codes and the vent manufacturer's instructions.

The water heater must be vented to the outdoors as described in these instructions. **DO NOT** connect this water heater to a chimney. It must be vented separately from all other appliances.

All vent components (adapters, pipe, elbows, terminals, etc.) should be UL 1738 Certified Stainless Steel Venting Material (e.g. AL29-4C).

The specified vent termination must be used. The termination should be a 90° elbow with screen. (Refer to pages 14 and 15 for an example of 90° termination)

Use a vent pipe with an anti-disconnection joint.

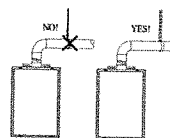
The use of a High Temperature Silicone (500°F [260°C]) may be required to seal vent connections. To prevent accidental gas exhaust leakage, apply a 1/4" (6 mm) wide bead approximately 1/4" (6 mm) from the end and another bead against the joint side of the stop bead.

Follow vent manufacturer's installation instructions and their recommended clearances to combustibles.

The unit can be vented either horizontally or vertically.

Vent pipe runs must be adequately supported along both horizontal and vertical runs.

The maximum recommended unsupported span should be no more than five (5) feet (1.5 m). Support isolation hanging bands should be used. **DO NOT** use wire. (See diagram below).



Notes on pre-existing vent:

If the water heater is being installed as a replacement for an existing water heater, a thorough inspection of the existing venting system must be performed prior to any installation work. Verify that the correct materials, vent lengths and terminal locations as detailed in this Use and Care Manual have been met. Carefully inspect the entire venting system for any signs of cracks or fractures, particularly at the joints between elbows or other fittings and the straight runs of vent pipe. Check the system for signs of sagging or other stresses in the joints as a result of misalignment of any components in the system. If any of these conditions are found, they must be corrected in accordance with the venting instructions in this manual before completing the installation and putting the water heater into service.

Number of 90° elbows (bends)	Maximum Length of Straight Pipe
1	47' 6" (14.4 m)
2	42' 6" (13 m)
3	37' 6" (11.4 m)

Venting Lengths

MAXIMUM VENT LENGTH: The system will not operate if there is excessive restriction (pressure drop) in the venting system. A maximum of 47' 6" (14.4 m) vent pipe may be used provided there is only one 90° elbow in the system. If additional elbows are required: two elbows can be used with 42' 6" (13 m) and three elbows can be used with 37' 6" (11.4 m).

A 90° elbow is equivalent to 5' (1.5 m) of straight pipe. A 45° elbow is equivalent to 2' 6" (76 cm) of straight pipe.

The termination elbow does not count as an elbow when determining total vent lengths.

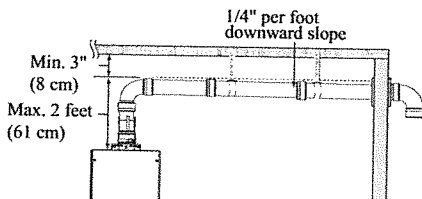
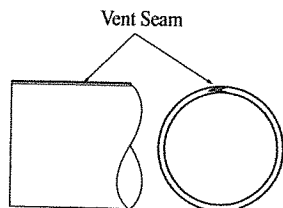
The vent can be installed with a slight downward slope of 1/4" per foot of horizontal run toward the vent terminal (see

diagram below). This ensures that any condensate formed during operation of the unit is evacuated from the appliance.

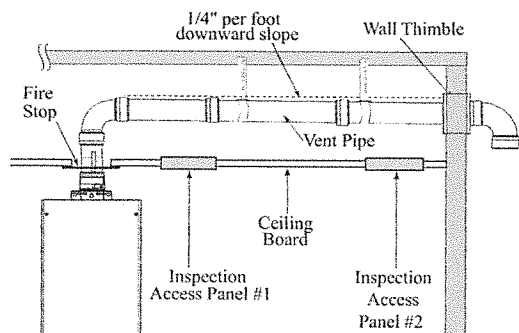
A 1/4" per foot upward slope is acceptable when it is not possible to vent with a downward slope; however, a UL approved Category III Stainless Steel condensate trap **MUST** be installed at the beginning of the horizontal run. (See page 14 "Example B: Typical Horizontal Termination w/ 1/4" per foot UPWARD Slope" or page 15, "Standard Vertical Vent Termination" for examples).

MINIMUM VENT LENGTH: The venting may be as short as 12" (30 cm), provided one vent termination is installed to the outdoors through a sidewall, one 90° elbow is included in the installation and the wall thimble is installed.

Notice: Make sure that the seam of the vent pipe in horizontal runs is toward the top of the installation (see diagram to the far left).



Venting Through Closed Spaces

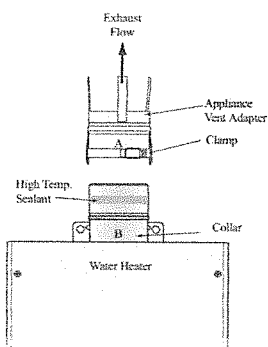


If the vent piping passes through a closed space, a minimum clearance of 8" (20 cm) when installed horizontally or 6" (15 cm) when installed vertically should be maintained between the vent pipe and combustibles and noncombustibles. Be sure to follow local codes and vent manufacturer's installation instructions.

For maintenance and inspection purposes, the following access panels are required.

- Two (2) inspection access panels large enough to allow access for venting inspection. One (1) of these access panels should be close to where the vent pipe enters the ceiling. The other access panel should be near the vent termination.
- A ventilation access panel with a 16 in² (103 cm²) opening should be provided every 10 ft (3 m).

CAUTION: Ensure that the appliance vent adapter is securely attached to the water heater collar.



Appliance Vent Adapter

The water heater must be installed with a UL 1738 approved Category III Stainless Steel appliance vent adapter.

Read the following instructions before installation.

- Test fit the adapter over the water heater collar before proceeding. Adjust clamp as needed.
- With an alcohol wipe, clean inside surface "A" of adapter and outside surface "B" of heater collar.
- Apply 1/4" (6 mm) wide bead of high temperature silicone (500°F [260°C]) around outside of heater collar "B".

- Slide adapter end "A" down over heater collar "B" as far as it will go.
- Tighten the clamp around the collar.
- Inspect the inside of the adapter to verify that the collar and adapter are sealed. If more sealant is required, apply sealant to a flat tool, then spread around the collar edge on inside of adapter.
- Ensure that the clamp does not interfere with the damper shaft.

NOTICE: Follow the appliance vent adapter manufacturer's instructions.

CAUTION: Condensate is known to be acidic; refer to local, state (provincial) or federal codes for proper handling and discharge methods.

CAUTION: Condensate must drain away from the water heater and should not be allowed to drain back into any part of the vent system.

WARNING: Failure to provide a vent condensate drain close to the appliance could allow acidic flue gas condensate to enter into appliance flueways, causing premature failure of the appliance.

Draining the Condensate

Provision should be made to collect and remove condensate from venting systems.

When a water heater is vented **horizontally**, the vent pipe can have a **DOWNWARD** or **UPWARD** slope towards the termination. If an **UPWARD** slope is used, a condensate trap must be installed as close as practical to the water heater in order to prevent condensate from draining back into the water heater. See Examples A and B on page 14 for **DOWNWARD** and **UPWARD** slope for horizontally vented water heaters.

When a water heater is vented **vertically**, an **UPWARD** slope must always be used.

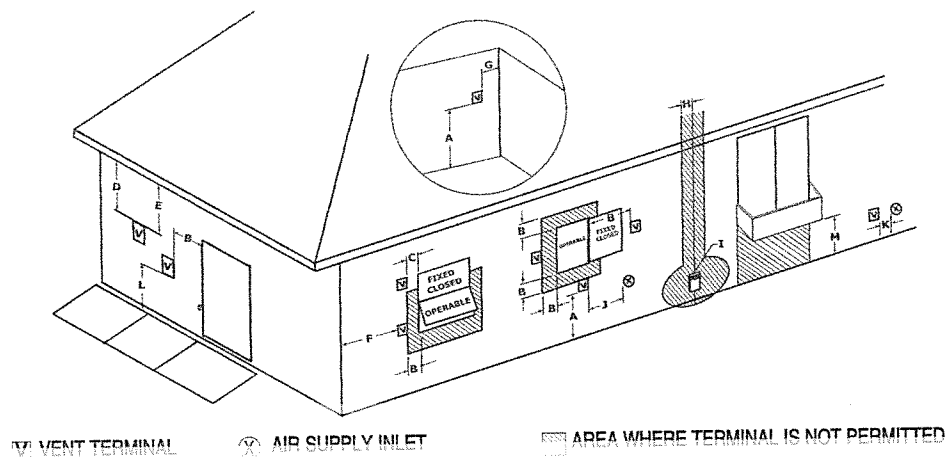
condensate trap must be installed in the horizontal section of the vent and as close as practical to the water heater in order to prevent condensate from draining back into the water heater. See the diagram on page 15 showing **UPWARD** slope for vertically vented water heaters.

Always attach a drain hose to the drain fitting and plumb the hose to a sanitary sewer drain.

A high temperature silicone tubing suitable for use with acidic condensate and appropriate for the temperature range should be used.

The drain tube is fashioned into a "pigtail" trap and must be filled with water to prevent flue gases from emitting into the building prior to operating the appliance.

Installing the water heater*

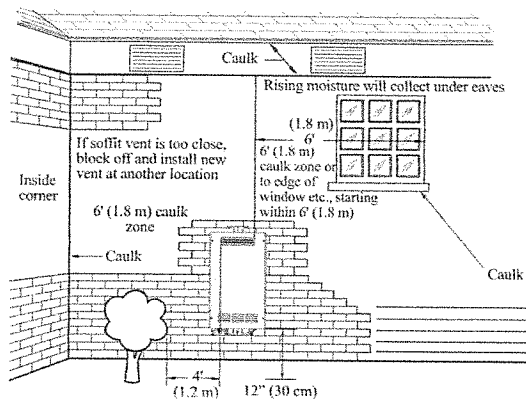


The following information should be used for determining the proper location of the vent terminal

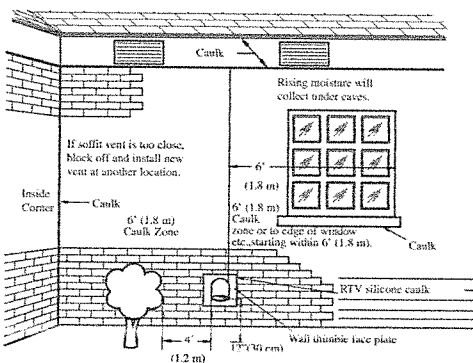
	Canadian Installations ¹ Indoor and Outdoor	US Installations ² Indoor	US Installations ² Outdoor
A= Clearance above grade, veranda, porch, deck or balcony.	12 inches (30 cm) above anticipated snow level.	12 inches (30 cm) above anticipated snow level.	12 inches (30 cm) above anticipated snow level.
B= Clearance to window or door that may be opened.	6 inches (15 cm) for appliances ≤ 10,000 Btuh (3 kW), 12 inches (30 cm) for appliances > 10,000 Btuh (3kW) and ≤ 100,000 Btuh (30kW), 36 inches (91 cm) for appliances > 100,000 Btuh (30kW).	4 feet (1.2 m) below or to side of opening; 1 foot (300 mm) above opening.	6 inches (15 cm) for appliances ≤ 10,000 Btuh (3 kW), 9 inches (23 cm) for appliances > 10,000 Btuh (3kW) and ≤ 50,000 Btuh (15kW), 12 inches (30 cm) for appliances > 50,000 Btuh (15kW).
C= Clearance to permanently closed window.	*	*	*
D= Vertical Clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61 cm) from the center line of the terminal.	*	*	*
E= Clearance to unventilated soffit.	*	*	*
F= Clearance to outside corner.	*	*	*
G= Clearance to corner.	*	*	*
H = Clearance to each side of center line extended meter/regulator assembly, above	3 feet (91 cm) within a height 15 feet (4.57 m) above the meter/regulator assembly.	*	*
I = Clearance to service regulator vent outlet.	3 feet (91 cm)	*	*
J = Clearance to nonmechanical air supply inlet to the combustion air inlet to any building or other appliance.	6 inches (15 cm) for appliances ≤ 10,000 Btuh (3 kW), 12 inches (30 cm) for appliances > 10,000 Btuh (3kW) and ≤ 100,000 Btuh (30kW), 36 inches (91 cm) for appliances > 100,000 Btuh (30kW).	4 feet (1.2 m) below or to side of opening; 1 foot (300 mm) above opening.	6 inches (15 cm) for appliances ≤ 10,000 Btuh (3 kW), 9 inches (23 cm) for appliances > 10,000 Btuh (3kW) and ≤ 50,000 Btuh (15kW), 12 inches (30 cm) for appliances > 50,000 Btuh (15kW).
K = Clearance to mechanical air supply inlet.	6 feet (1.83 m)	3 feet (91 cm) above if within 10 feet (3 m) horizontally.	3 feet (91 cm) above if within 10 feet (3 m) horizontally.
L = Clearance above paved sidewalk or paved driveway located on public property.	Not Allowed	Not Allowed	Not Allowed
M = Clearance under veranda, porch, deck or balcony.	Not Allowed	Not Allowed	Not Allowed

* For condensing appliances: The vent for this appliance shall not terminate over public walkways, near soffit vents, crawl space vents, or other areas where condensate or vapor could create a nuisance, hazard or cause property damage, or where condensate or vapor could cause damage or could be detrimental to the operation of regulators, relief valves or other equipment.

CAUTION: Water Heater



CAUTION: Water Heater

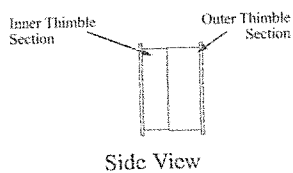


WARNING: Moisture in the flue gas will condense as it leaves the vent terminal. In cold weather this condensate can freeze on the exterior wall, under the eaves and on surrounding objects. Some discoloration on the exterior of the building is to be expected. However, improper location or installation can result in severe damage to the structure or exterior finish of the building.

Additional Guidelines

- 1 Do NOT install vent terminal under any patio or deck.
- 2 To help prevent moisture from freezing on walls and under eaves, do not locate vent terminal on the side of a building with prevailing winter winds.
- 3 To help prevent water lines from freezing, do not locate vent terminal on the side of a building with prevailing winter winds.
- 4 Do Not terminate vent directly on brick or masonry surfaces. A rust resistant sheet metal backing plate (1 x 1 foot)(30 x 30 cm) is recommended behind vent. (See Figure.)
- 5 Do NOT locate vent terminal too close to shrubbery, as flue gases may damage them.
- 6 Caulk all cracks, seams and joints within six (6) feet (1.8 m) of vent terminal.
- 7 Caulk around thimble face plate for weather tight seal.
- 8 All painted surfaces should be primed to lessen the chance of physical damage. Painted surfaces will require maintenance.
- 9 Insulate vent pipe of water heaters exposed to cold conditions (attics, crawl spaces, etc.) with inflammable material to help prevent moisture from accumulating in vent pipe. The insulation should be rated for the temperature and should not contain substances that corrode the vent pipe.
- 10 Do NOT extend exposed vent pipe of indoor water heaters outside of building.
- 11 Guard vent against accidental contact with people and pets.
- 12 Install outdoor water heater such that air inlet and flue outlet is above anticipated snow level.

Installing the (FINI II II II) water heater



An approved 4 inch (10 cm) Vent Horizontal Wall Thimble must be used.

The Wall Thimble requires mechanical support from the wall sufficient to support any incidental loads on the system. If the wall is not sufficient enough to support the Wall Thimble, then appropriate additional framing and/or blocking is required.

INSTALLATION PROCEDURE: Prepare an opening for the Wall Thimble in the wall. The opening must be 6-1/2" (16 cm) in diameter for a 4" (10 cm) vent system.

If there are not sufficient support members to secure the Wall Thimble or if there is a semirigid foam insulation layer under the sheathing, appropriate fasteners must be used to secure the Wall Thimble to the support members.

The Wall Thimble is designed to adapt to any wall thickness from 3-1/2" (9 cm) to 6" (15 cm) thick. If the wall is thicker than 6" (15 cm), the Wall Thimble may be extended using a piece of 6" (15 cm) diameter snaplock or welded seam galvanized pipe up to 6" (15 cm) long.

Select the larger diameter half of the Wall Thimble for the outside of the wall.

- Apply a continuous bead of high quality silicone or silicone/latex caulk on the inside of the outer flange. This will be the only weather seal to keep moisture outside the building. Ensure a sufficient seal is made.
- Position this portion of the Wall Thimble into the prepared hole from the outside. Secure the assembly into the prepared opening using fasteners as indicated by sheathing or structural members, sealing the screw heads with more caulking.

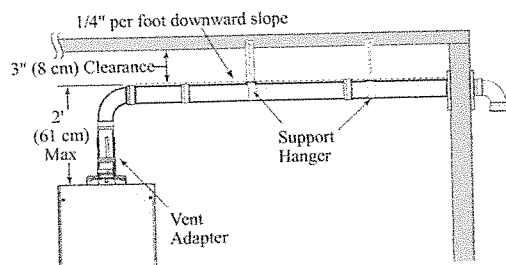
Use four (4) hollow wall anchors, at least 1/8" (.32 cm) in diameter and of appropriate length for the thickness of the sheathing, if

sheathing is particle board or other composite material. Use four (4) #10x1-1/4" wood screws for plywood, solid wood sheathing or members. Use suitable masonry anchors when passing through solid masonry walls. Reinstall the decorative sheathing around the Wall Thimble. This assembly may be painted to match the exterior decor.

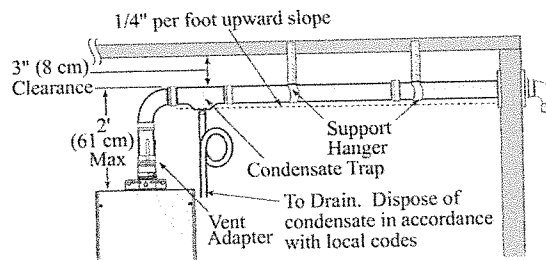
- Attach a Rheem approved 4" (10 cm) screened, 90° elbow termination to the female end of a vent section or slip connector. Use the method described in the Venting installation instructions provided with the vent. Slide the vent in through the outside of the Thimble and seal the annular space with a thick bead of caulk.
- Slide the interior portion of the Thimble into the inside hole. Be certain the interior and exterior Thimble halves overlap at least 1" (2.5 cm). If insufficient overlap exists, extend the interior portion with single wall galvanized pipe.
- Secure the Wall Thimble to the interior sheathing using suitable fasteners.
- Secure the vent section or slip connector that protrudes through the Wall Thimble to the rest of the vent system as described in the Venting installation instructions provided with the vent.
- Proper support must be provided for the vent pipes as mentioned in the venting section.
- Support method used should isolate the vent pipe from floor joist or other structural members to help prevent the transmission of noise and vibration.
- Do not support, pin or otherwise secure the venting system in a way that restricts the normal thermal expansion and contraction of the chosen venting material.

WARNING: Use UL approved Category III vent material only. No other vent material is permitted.

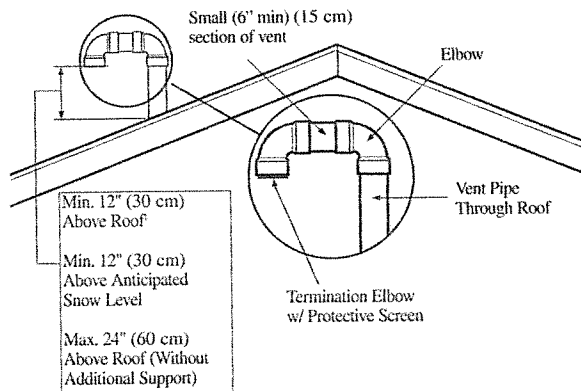
CAUTION: Follow the vent manufacturer's installation instructions as design might vary from manufacturer to manufacturer.



Example A: Typical Horizontal Termination
w/ 1/4" per foot DOWNWARD Slope



Example B: Typical Horizontal Termination
w/ 1/4" per foot UPWARD Slope



¹ Min. 18" (46 cm) above roof for installations in Canada.

The location of the vent terminal depends on the following minimum clearances and considerations (see diagram at left):

- ① Minimum twelve (12) inches (30 cm) above roof.²
- ② Minimum twelve (12) inches (30 cm) above anticipated snow level.
- ③ Maximum twenty-four (24) inches (60 cm) above roof level without additional support for vent.
- ④ Four (4) feet (1.2 m) from any gable, dormer or other roof structure with building interior access (i.e., vent, window, etc.).
- ⑤ Ten (10) feet (3 m) from any forced air inlet to the building. Any fresh or make-up air inlet such as a dryer or furnace area is considered to be a forced air inlet.³

² For installations in Canada 18" (45.7 cm).

³ For installations in Canada 6' (1.8 m).

Notice: Only Rheem approved termination and parts should be used during installation.

Notice: Follow vent manufacturer's installation instructions and their recommended clearances to

A fire stop plate should be installed at every

not running in a fire-rated shaft. Maintain the recommended air space clearance to combustible materials and building insulation.

Once the vent terminal location has been determined, make a hole through the roof and interior ceiling to accommodate the vent pipe. Complete the vent pipe installation to the water heater's vent connector fitting on the water heater vent collar outlet. Support

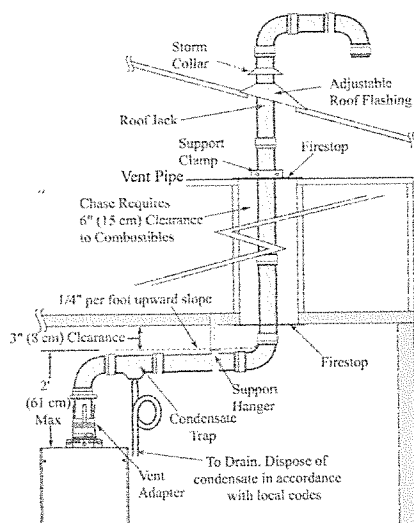
Install adequate flashing where the vent pipe

terminal height and install the vent pipe accordingly. Refer to the diagram above for proper vent terminal height. Connect vent elbow onto vertical pipe through roof. Connect short piece of vent pipe (approximately 6" long [15 cm]) to elbow, and the terminal elbow with the protective screen.

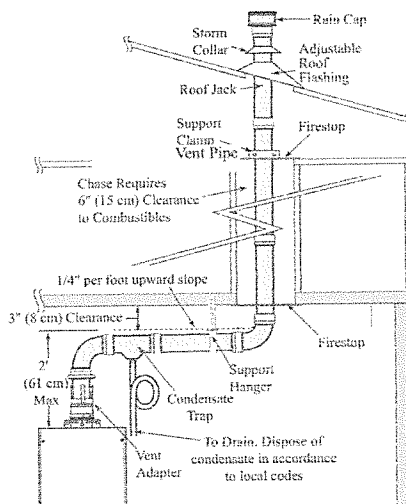
The vent roof system must terminate at least

2 feet (61 cm) higher than any portion of the building within 10 feet (3 m)

along the vent pipe run. Vertical supports



Standard Vertical Vent Termination



Alternate Vertical Vent Termination with Rain Cap

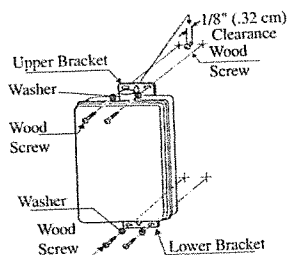
transition to vertical and are required after every offset elbow. When the vent is free-standing and penetrates a roof/ceiling, another means of support must be used at a second location.

Follow the vent manufacturer's recommended installation instructions provided with the vent purchased from the manufacturer.

Installing the water heater:

⚠ CAUTION:

Reinforcement of the wall is required in case the wall is not strong enough to hold the appliance.



Mounting the Water Heater

Make sure the location of the appliance allows for easy access and operation.

Wall studs should be utilized when mounting the water heater to the wall. Alternately, a suitable piece of wood may be placed inside or outside of the wall to span the distance between the wall studs. Fasten the water heater mounting brackets to the wood.

In case of dry wall or concrete wall, use drywall anchors or lag bolts.

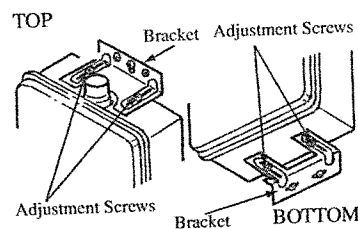
The water heater requires 120VAC/60Hz. Have a receptacle with ground terminal near the water heater. The length of the power supply cord is 10 feet (3 m) (indoor water heater only.)

Install a wood screw for the upper bracket with a clearance of 1/8" (.32 cm) between the wall and the screw head. Hang the center of the upper bracket on the screw.

Using a wood screw and a washer, affix the lower bracket to the wall (Left and Right). Repeat to affix the top bracket.

The brackets can be adjusted to change the distance between the back of the appliance and the wall within the range of 3/8" (.95 cm) to 1-1/2" (3.8 cm).

Loosen the adjustment screws of both the top and the bottom brackets to adjust the distance (See diagram below).



Thermal Expansion

The water heater is installed in a closed loop system to prevent damage to heater, related piping and relief valve. Replacing the relief

operation of the relief valve. Other methods of controlling thermal expansion are also available. Contact your installing contractor

expansion tank is designed with an air cushion built in that compresses as the system pressure increases, thereby relieving the over pressure

additional information regarding this subject.

IMPORTANT: Do not

apply heat to the FROM COLD water connections. If sweat connections are used, sweat tubing to adapter before fitting adapter to the water connections on heater. Any heat applied to the water supply fittings will permanently damage the internal components of the water heater.

Water Supply Connections

Plumbing should be carried out by a qualified plumber in accordance with local codes.

Use approved plumbing materials only.

The diameter of the pipe lines should be a minimum of 3/4" (2 cm).

To conserve energy and to prevent freezing, insulate both cold and hot water supply lines. DO NOT cover the drain or pressure relief valve.

To ensure proper operation of the water heater, the following water pressure guidelines should be followed:

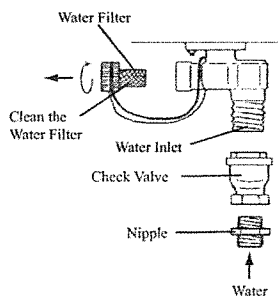
- Operation of the water heater requires the minimum water pressure of 14 psi (97 kPa) and a minimum water flow rate of 0.66 gpm (2.5 lpm).
- A water pressure of 40 psi (276 kPa) is required to achieve maximum flow rate.
- To maintain proper performance, ensure sufficient water supply pressure. The

Required Water Pressure = Min. Operating Water Pressure (14 psi [97 kPa]) + Pipe Pressure Loss + Faucet and Shower Pressure Loss + Safety Margin (more than 5 psi [34 kPa]).

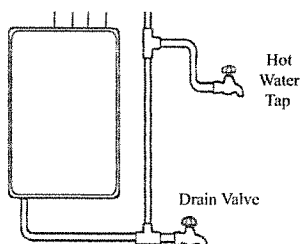
- To supply hot water to upper floors, additional water pressure (0.44 psi/ft [10 kPa/m]) must be ensured. The measurement should be calculated by the distance between the water inlet of the water heater (ground level) to the hot water faucet (upper floor level).
- Well water systems should be set to ensure a minimum system pressure of 40 psi (276 kPa). The pressure should remain stable during the operation of the water heater.
- When the water is supplied from a water supply tank, the height of the tank and the diameter of the pipes and their relation to water pressure should be taken into consideration. Gravity water pressure is not recommended.

⚠ CAUTION: This water heater must only be used with the following water supply system conditions:

- With clean, potable water free of corrosive chemicals, sand, dirt or other contaminants.
- With inlet water temperatures above 32°F (0°C), but not exceeding 120°F (49°C) for Light Duty models and up to 140°F (60°C) for Heavy Duty models.
- Free of lime and scale deposits.
- **DO NOT** reverse the hot and cold water connections. The water heater will not operate.



Notice: Use only teflon tape on cold and hot water connections and lines.



intended for space heating application. Do not connect this heater to

used for space heating or non-potable water distribution. All water piping and components shall be suitable for potable water.

Water Supply Connections, continued

Notice: If the water flow resistance of a shower head is too high, the burner in the water heater will fail to ignite. Keep the shower head clean from debris that could cause additional pressure drop.

Notice: If using mixing valves on the outlet, choose one that prevents cold water pressure from overcoming hot water line pressure.

Notice: If multiple water heaters are installed in a manifold system, the water piping must be in "Parallel". A water pressure of 40 psi (276 kPa) is recommended for each water heater for proper operation of the water heaters.

Alternate Water Piping Arrangement with Optional Valve Kit

Valve kits may be purchased and installed as optional items. Contact your distributor or place of purchase for details. They allow for one person full diagnostic testing and ease of flushing the system. The kit includes two full port isolation valves, one for the cold side and one for the hot side. Refer to page 23.

Install a shutoff valve near the inlet of the water heater for service and draining purposes.

It is not recommended to use pipes with smaller diameters than the water supply connection of the water heater.

Before connecting the water supply pipe to the water heater, open the shutoff valve and clean out sand, debris, air, caulking material, etc. inside the pipe. Connect to the water inlet, then check water flow. Close the shutoff valve and clean the water filter.

Be sure to connect the water inlet and the hot water outlet as shown on the water heater. If reversed, the water heater will not function.

Installation of unions or flexible copper connections are recommended on the HOT and COLD water lines, so that the water heater may disconnect easily for servicing, if necessary.

Install a Check Valve between the water heater and the water shutoff valve (see the top left diagram).

The following should be addressed in regards to the HOT WATER OUTLET:

- Connections between the water heater and point(s) of use should be as short and direct as possible.
- Local codes shall govern the exact type of pipe material that is to be used for water connections.
- To conserve energy and minimize heat loss, insulation of hot water piping is recommended (see Hot and Cold Pipe Insulation Installation on page 24).

Notice: The flow rate of hot water may vary when more than two faucets (appliances, fixtures, etc.) are being used simultaneously.

Notice: The pipes MUST be completely drainable. If the hot water faucets are located at a point higher than the water heater, place a drain valve at the lowest point (see diagram at the left).

Installing the water heater:

Relief Valve

A new pressure relief valve, complying with the Standard for Relief Valves and Automatic Gas Shut-Off Devices for Hot Water Supply Systems, ANSI Z21.22/CSA 4.4, must be installed at the hot water outlet connection of the water heater at the time of installation. Local codes shall govern the installation of relief valves.

For safe operation of the water heater, be sure that:

- The pressure rating of the relief valve must not exceed 150 psi (1034 kPa), the maximum working pressure of the water heater as marked on the rating plate.
- The BTUH rating of the relief valve must equal or exceed the BTUH input of the water heater as marked on its rating plate.
- No valve of any type should be installed between the relief valve and the water heater
- Discharge from the relief valve should be piped to a suitable drain to eliminate potential water damage. Piping used should be of a type approved for the distribution of hot water.
- Hot and cold water lines should be insulated up to the water heater. Refer to page 14 for details.
- The discharge line must be NO SMALLER than the outlet of the relief valve and must pitch downward to allow complete drainage (by gravity) of the relief valve and discharge line.

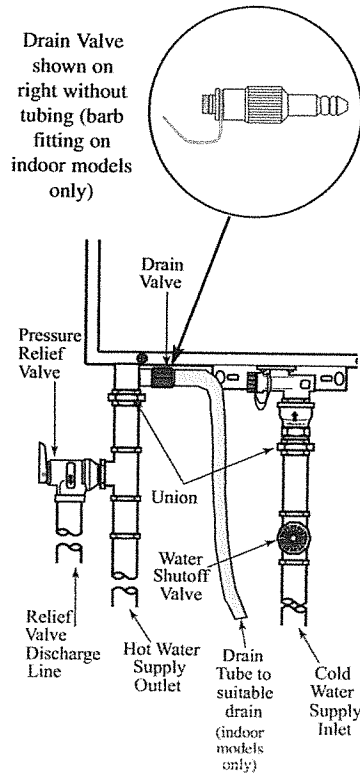
- The end of the discharge line should not be threaded or concealed and should be protected from freezing. No valve of any type, restriction or reducer coupling should be installed in the discharge line.

Notice: Local codes govern the installation of relief valves. If local codes require that a temperature and pressure relief valve should be installed, the manufacturer recommends a type 40XL Watts T&P relief valve or an equivalent model be used.

Notice: Manual operation of relief valves should be performed at least once a year. Turn off the electrical power and gas shutoff valve. Lift and release lever on the relief valve and check the manual operation of the relief valve. You should take precaution to avoid contact with the hot water coming out of the relief valve and to prevent water damage.

Notice: If the relief valve on the system discharges periodically, a problem exists and service to the water system is required.

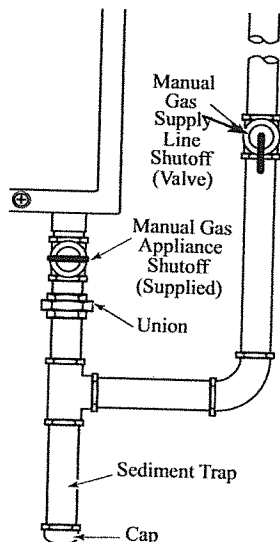
The vinyl tubing as shown is supplied only with indoor water heaters and connects to the drain valve located at the hot water outlet as shown in the diagram at left. Route the other end of the vinyl tubing to the drain pan or a suitable drain. *Warning: Since the water will not result in damage to the area adjacent to the heater or to lower floors of the structure.*



Notice: The above illustrates a pressure-only relief valve. If local codes require a combination temperature and pressure relief valve for installation, an additional piece may be needed to ensure that the valve gasket is not directly in the flow outlet of the heater.

⚠ WARNING: Do not attempt to convert this water heater for use with a different type of gas other than the type shown on the rating plate. Such conversion could result in hazardous operating conditions.

Gas Supply



The supplied Manual Gas Appliance Shutoff Valve must be installed at the gas connection of the water heater at the time of installation (see diagram to the left).

The branch gas supply line to the water heater should be a minimum of 3/4" black steel pipe or other approved gas piping material.

A ground joint union or ANSI design certified semi-rigid or flexible gas appliance connector should be installed in the gas line close to the water heater. The National Fuel Gas Code (NFGC) ANSI Z223.1 and CAN B149 code mandates a manual gas shut-off valve: See NFGC & B149 for complete instructions.

If flexible connectors are used, the maximum length shall not exceed 36" (91 cm).

If lever type gas shut offs are used, they shall be T-Handle type.

Compound used on the threaded joints of the gas piping must be of the type resistant to the action of LP gas. Use compound sparingly on male threads only.

A sediment trap should be installed at the bottom of the gas line.

Do not use excessive force (over 31.5 ft lbs. [42.7 Nm]) in tightening the pipe, particularly if teflon pipe compound is used, as the unit may be damaged.

The inlet gas pressure to the water heater must not exceed 10.5" w.c. (2.6 kPa) for natural or 14" w.c. (3.5 kPa) for LP gas. For purposes of input adjustment, the minimum inlet gas pressure (with main burner on) is shown on the water heater rating plate. If high or low gas pressures are present, contact your gas supplier for correction.

NOTICE: To ensure proper operation of the heater the gas pipe and gas meter must be sized correctly.

Gas piping shall be in accordance with local, utility company requirement and/or in the absence of local codes, use the latest edition of the National Fuel Gas Code. In Canada, the latest edition of CSA B149.1 Natural Gas and Propane installation code.

⚠ WARNING: Never use an open flame to test for gas leaks, as property damage, personal injury, or death could result.

Leak Testing

The water heater and its gas connections must be leak tested at normal operating pressures before it is placed in operation.

- 1 Turn on the gas shut-off valve(s) to the water heater.

- 2 Use a soapy water solution to test for leaks at all connections and fittings. Bubbles indicate a gas leak that must be corrected.

The factory connections should also be leak tested after the water heater is placed in operation.

⚠ WARNING: Install a gas pressure regulator, in the gas supply line, which does not exceed the maximum supply pressure.

DO NOT use an industrial type gas regulator.

Pressure Testing the Gas Supply System

The water heater and its manual gas shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at pressures in excess of 1/2 psi (14" w.c. [3.5 kPa]).

The water heater must be isolated from the gas piping system by closing the manual gas shut-off valve during any pressure testing of the gas supply piping at pressures equal to or less than 1/2 psi (14" w.c. [3.5 kPa]).

High Altitude

This water heater is certified for installations up to 3,280 feet (1000 m) above sea level. The input rating of this water heater is based on sea level operation. At higher elevations, the actual input rate may be lower than the value listed on the rating label.

NOTICE: Select High Altitude models are available. One model is available for use at elevations above 3,280 feet (1,000 m) up to 6,560 feet (2,000 m), and an additional model is available for use at elevations above 6,560 feet (2,000 m) up to 9,840 feet (3,000 m).

NOTICE: For installations above 3,280 feet (1,000 m) elevation, the Altitude Chip on the PC board must be replaced. Do not install this water heater at elevations above 3,280 feet (1,000 m) without installing the proper Altitude Chip. Please contact your installer, local gas supplier, place of purchase or the Customer Service phone number as listed in this Use & Care Manual for more information.

Installing the Main Remote Control:

⚠ WARNING: Field wiring connections and electrical grounding must comply with local codes, or in the absence of local codes, with the latest edition of the National Electrical Code, ANSI/NFPA 70, or in Canada, Canadian Electrical Code, CSA C22.1 Part 1.

Remote Control Installation

NOTICE: The provided remote control will allow a maximum temperature setting of 120°F (49°C). Temperatures of up to 140°F (60°C) for Light Duty models and up to 180°F (82°C) for Heavy Duty models can be achieved with the MAIN (UMC-117) remote control and a dip switch adjustment. Only Heavy Duty water heaters can achieve temperatures up to 180°F (82°C). Only qualified service personnel should perform this adjustment.

NOTICE: If the Heavy Duty water heaters are installed in a manifold system, the main remote control connected to the manifold controller (MIC-180) has priority over the remote controls connected to the water heater.

NOTICE: An optional cable (EZ Link Cable™) can be purchased separately to manifold two heaters of either Light Duty or Heavy Duty together.

One (1) remote control is provided with the water heater. Additional remote controls may be purchased separately. Up to three (3) remote controls can be used with this water heater.

The following are considerations for determining the location of the remote control(s):

- **DO NOT** install any remote control outdoors or in areas where it can come in contact with water.
- Place remote control out of children's reach.
- The remote control can be installed in convenient locations such as the kitchen, laundry room, utility room, or directly beside the indoor water heater.
- Avoid areas where the remote control may be exposed to heat, e.g. stove, ranges or heaters.

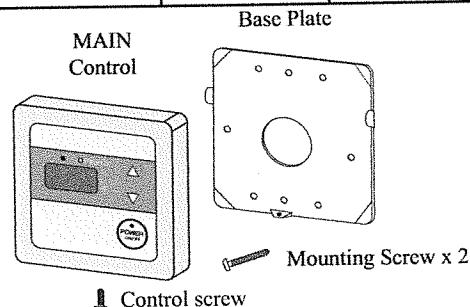
- Avoid areas where the remote control may be subjected to oil and/or steam from cooking.
- Avoid areas where chemical agents (such as thinner, benzene and alkalines) are used.
- Avoid areas of direct sunlight.
- The MAXIMUM distance between the water heater and the remote control installation location is limited to 195 feet (59 m) of wire.

NOTICE: Only one of each type of remote controls can connect to the water heater. Therefore, a maximum of three controls can connect to the water heater.

No other manufacturer's controls are suitable for use with this water heater.

DO NOT attempt to disassemble the remote control.

Remote Control Model Number	Remote Control Description	Temperature Set Point Range	Availability	Models
USC1-117	BATH 1	100°F - 120°F (38°C)-(49°C)	Optional (Sold Separately)	Light Duty Only
USC2-117	BATH 2	100°F - 120°F (38°C)-(49°C)	Optional (Sold Separately)	Light Duty Only
UMC-117	MAIN	100°F - 120°F (38°C)-(49°C)	Provided with Heater (Factory Default)	Light and Heavy Duty
		125°F - 140°F (52°C)-(60°C)	With Dip Switch Adjustment	Light Duty
		125°F - 180°F (52°C)-(82°C)	With Dip Switch Adjustment	Heavy Duty
MIC-180 Manifold System	Manifold System	-----	Optional Sold Separately	Heavy Duty Only



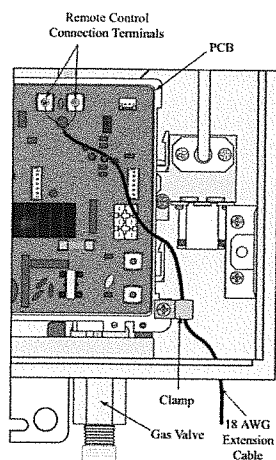
⚠ WARNING: Field wiring connections and electrical grounding must comply with local codes, or in the absence of local codes, with the latest edition of the National Electrical Code, ANSI/NFPA 70, or in Canada, Canadian Electrical Code, CSA C22.1 Part 1.

Remote Control Installation

NOTICE: Extension cable can be any Type-T 18 AWG wire similar to a thermostat wire and need not be polarity sensitive.

Do Not apply sealant to the remote control cable.

It is not recommended to have wiring exposed.



Connecting the MAIN (UMC-117) remote control to the water heater:

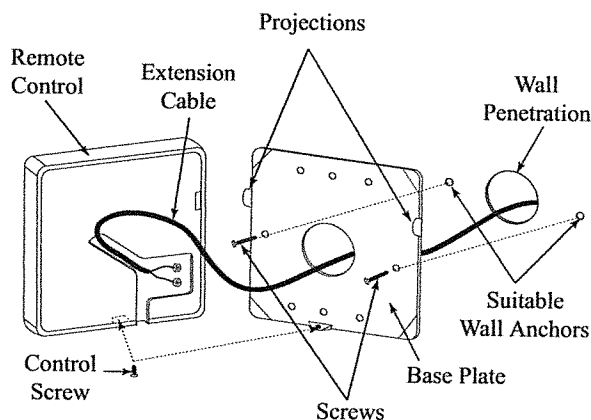
- Drill a 1" (2.5 cm) to 1-1/2" (3.8 cm) hole at the proposed control location.
- Install the extension cable between the location of the remote control and the water heater.
- Remove the base plate from the control.
- Feed the remote control extension cable through the central hole in the base plate.
- Fix the base plate to the wall using suitable screws and wall anchors. Ensure the projections on the base plate are pointing upward.
- Connect the remote control cables to the extension cable from the water heater.
- Place the remote control over the base plate. Ensure the projections in the base plate fit into the housings in the remote control.
- Fix the control to the base plate at the bottom of the remote control using the screw provided.
- Proceed to "Connecting the remote control to the water heater", to complete installation.

Connecting the remote control to the water heater:

- Ensure that the power to the water heater has been disconnected.
- Remove the front cover of the water heater.
- Insert the remote control extension cable through the hole at the bottom right hand corner of the water heater.
- Connect the wires to the terminals on the top right hand side of the Printed Circuit Board (PCB) as shown in diagram to the left.

NOTICE: The remote control wire connection terminals are not polarity sensitive.

- Firmly tighten the terminal screws.
- Secure the remote control extension cable using the appropriate clamp.
- Replace the front cover of the water heater.
- Switch on the power supply to the water heater.
- Ensure proper operation of the remote control and water heater.



Installing the Main Remote Control:

▲ WARNING: Field wiring connections and electrical grounding must comply with local codes, or in the absence of local codes, with the latest edition of the National Electrical Code, ANSI/NFPA 70, or in Canada, Canadian Electrical Code, CSA C22.1 Part 1.

Electrical Connection

▲ WARNING: Shock hazard line voltage is present. Before servicing the water heater, turn off the electrical power to the water heater at the main disconnect or circuit breaker. Failure to do so could result in severe personal injury or death.

▲ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify correct operation after servicing.

POWER CORD (Indoor water heaters only):

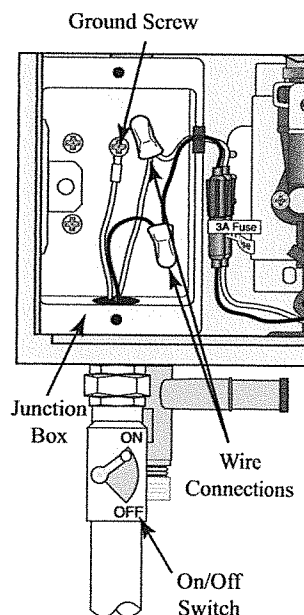
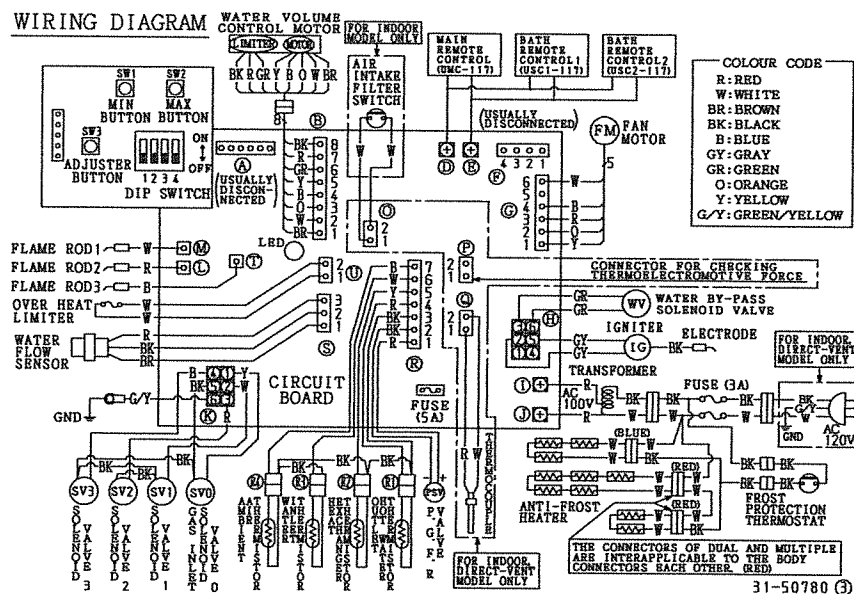
- The electric power supply requirement for this water heater is 120 VAC/60HZ, 2 Amps.
- The water heater comes with a three (3) pin power supply cord (INDOOR MODELS ONLY). Use only a power outlet with a ground terminal.
- The installation of an electric leakage breaker is recommended.
- Keep any excess of the power supply cord on the outside of the water heater.
- If local codes require hardwiring, see instructions for "Hardwiring the Electrical Connections".

HARDWIRING THE ELECTRICAL CONNECTIONS

(Indoor or Outdoor water heaters):

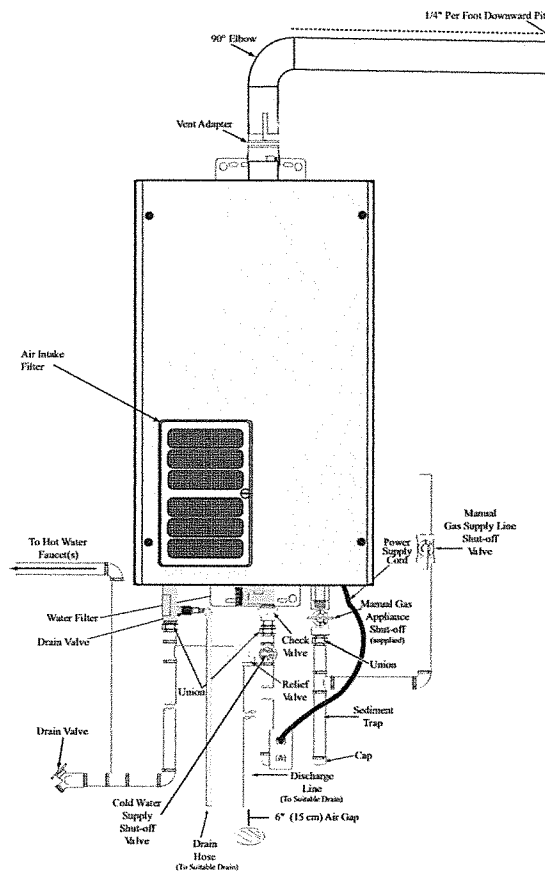
- Wiring should be carried out by a qualified electrician in accordance with local codes.
- The water heater requires 120 VAC/60Hz and should be properly grounded.
- DO NOT connect grounding wire to water pipes, gas pipes, telephone cables, lightning conductor circuits and to grounding circuit of other equipment that carry a ground-fault interrupter.
- An ON/OFF switch must be provided and installed for the incoming 120VAC power.
- Wire the water heater exactly as shown below. A wiring diagram is also found inside of the cover panel.
- A green screw is provided in the junction box for a grounding connection.
- Connect the live wire to black leg wire and the neutral wire to the white neutral wire.

WIRING DIAGRAM

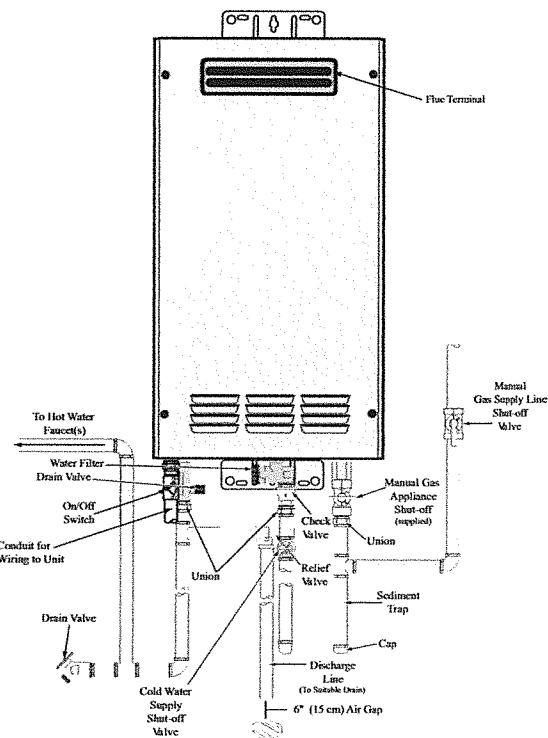


Installing the water heater:

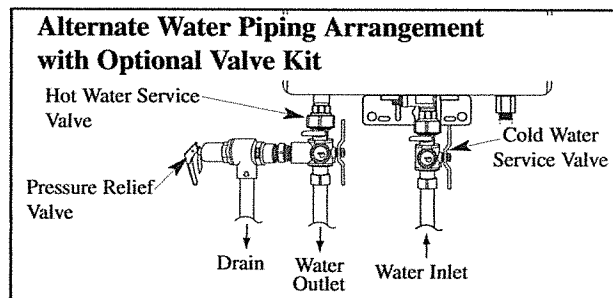
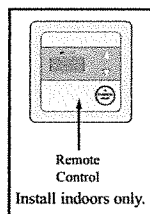
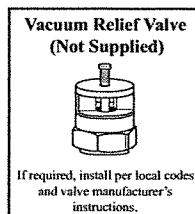
Typical Installation of Water Heater (Venting Required for Indoor Models Only)



Indoor Models



Outdoor Models



NOTICE: The National Fuel Gas Code (NFGC) and B149 mandates a manual gas shut-off valve: See NFGC/B149 for complete instructions. Local codes or plumbing authority requirements may vary from the instructions or diagrams provided and take precedent over these instructions.

Installing the water heater:

⚠ WARNING: If local codes require external application of insulation blanket kits the manufacturer's instructions included with the kit must be carefully followed.

Insulation Blankets

Insulation blankets, available to the general public for external use on gas water heaters, are not necessary. The purpose of an insulation blanket is to reduce the standby heat loss encountered with storage tank heaters. This water heater does not store water making an insulation blanket unnecessary.

The manufacturer's warranty does not cover any damage or defect caused by installation, attachment or use of any type of energy saving or other unapproved devices (other than those authorized by the manufacturer) into, onto or in conjunction with the water heater. The use of unauthorized energy saving devices may shorten the life of the water heater and may endanger life and property.

The manufacturer disclaims any responsibility for such loss or injury resulting from the use of such unauthorized devices.

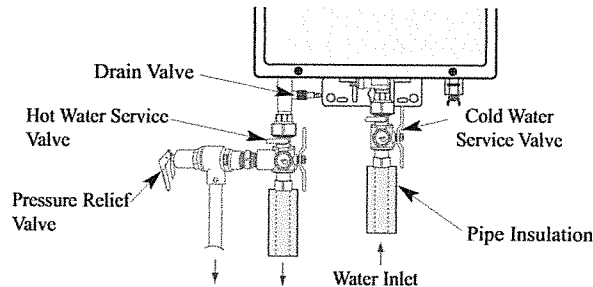
CAUTION: If local codes require the application of an external insulation blanket to this water heater, pay careful attention to the following so as not to restrict the proper function and operation of the water heater:

- Do not cover the air inlet, flue outlet or operating and warning labels attached to the water heater or attempt to relocate them on the exterior of insulation blanket.

Hot and Cold Pipe Insulation Installation

NOTICE: The hot and cold pipes should be insulated as shown to provide additional freeze protection.

⚠ WARNING: In case the pipe insulation is not rated for the appropriate weather conditions install electric heat tracing or equivalent to prevent freezing of the pipes. Do not insulate or block drain valve on the hot outlet fitting. If the pipes are allowed to freeze, the water heater and the pipes may malfunction or leak due to freezing water.



For increased energy efficiency, use pipe insulation. Please install the insulation according to the diagram above, making sure

to insulate all the way to the top. **Do not** cover any drain or pressure relief valve(s).

During Installation of this water heater...

Do's

- ☐ Do follow all installation instructions covered in this manual.
- ☐ Do check inlet gas pressure to ensure that it is within the range specified on the rating plate.
- ☐ Do provide adequate air for combustion and ventilation as discussed in the Use & Care Manual and the National Fuel Gas Code (CAN/CGA B149 in Canada).
- ☐ Do maintain proper clearances to combustibles and non-combustibles as specified on the nameplate.
- ☐ Do ensure that the venting system complies with the guidelines found in the Use & Care Manual and National Fuel Gas Code (CAN/CGA B149 in Canada).

- ☐ Do contact local gas company to ensure gas meter and gas piping are adequately sized.
- ☐ Do use teflon tape on water line connections and fittings.

Don'ts

- ☐ Don't block or restrict Air Intake Opening located on the front cover of the water heater.
- ☐ Don't remove the front cover unless absolutely necessary. This should only be done after being examined by a qualified service technician.
- ☐ Don't install this product where standing water may occur.
- ☐ Don't use pipe dope on water line connections and fittings.

Installation Check List

A. Outdoor Water Heater Location

- ☐ Outdoor water heaters must be installed outdoors.
- ☐ Protected from freezing temperatures.

B. Indoor Water Heater Location

- ☐ Close to area of vent termination.
- ☐ Indoors and protected from freezing temperatures.

C. Outdoor and Indoor Water Heater Location

- ☐ Proper clearance from combustible surfaces observed.
- ☐ Sufficient fresh air supply for proper operation of water heater.
- ☐ Air supply free of corrosive elements and flammable vapors.
- ☐ Provisions made to protect area from water damage.
- ☐ Sufficient room to service heater.
- ☐ Combustible materials, such as clothing, cleaning materials, rags, etc. clear of the heater and vent piping.
- ☐ Water heater is properly attached to the wall.

D. Water Supply

- ☐ Water supply has sufficient pressure.
- ☐ Air purged from water heater and piping.
- ☐ Water connections tight and free of leaks.
- ☐ Water filter is clean and in place.
- ☐ Materials used are as instructed in this manual.
- ☐ Water pipes are insulated and protected from freezing.

E. Gas Supply

- ☐ Gas type matches rating plate.
- ☐ Gas supply pressure is sufficient for the water heater.
- ☐ Gas line equipped with shut-off valve, union and sediment trap.
- ☐ Approved pipe joint compound used.
- ☐ Soap and water solution used to check all connections and fittings for possible gas leak.
- ☐ Gas Company inspected installation (if required).

F. Relief Valve

- ☐ Pressure Relief Valve properly installed and discharge line run to open drain.
- ☐ Discharge line protected from freezing.

G. Venting (Indoor Water Heaters Only)

- ☐ Vent pipe material should be category III and meet UL1738 in US and ULC S636 in Canada.
- ☐ Vent connector(s) pitched (1/4" per foot of length minimum) DOWNWARD or UPWARD to termination. If UPWARD, a condensate trap must be installed close to the heater. See page 14.
- ☐ Vent connector(s) securely fastened together with high temperature silicone (500°F [260°C]) and air-tight.
- ☐ All vent runs are properly supported.
- ☐ Vent terminal is properly installed.
- ☐ Sufficient combustion air is available.
- ☐ Maximum and minimum vent lengths are observed.

H. Electrical Wiring

- ☐ Voltage matches rating plate.
- ☐ Water heater is properly grounded.
- ☐ Supply cord and/or wiring meets all local codes.

Lighting the water heater:

Before operating this water heater, be sure to read and follow the instructions on the label pictured below and all other labels on the water heater, as well as the warnings printed in this manual. Failure to do so can result in unsafe operation of the water heater, resulting in property damage, personal injury or death. Should you have any problems reading or following the instructions in this manual, STOP, and get help from a qualified person.

FOR YOUR SAFETY READ BEFORE OPERATING

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

A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Do not return to your home until authorized by the gas supplier or fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

31-16962(0)

OPERATING INSTRUCTIONS

1. STOP! Read the safety information above on this label.

2. Turn off all electric power to the appliance.

3. Do not attempt to light the burner by hand.

4. Turn the Gas Shutoff Valve located on the outside of the unit clockwise  to the "OFF" position.

GAS SHUTOFF
VALVE



OPEN



CLOSE

5. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

6. Turn the Gas Shutoff Valve located on the outside of the unit counterclockwise  to the "ON" position.

7. Turn on all electric power to the appliance.

8. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.

2. Turn the Gas Shutoff Valve located on the outside of the unit clockwise  to the "OFF" position.

Operating the water heater:

Safety Precautions

- A** Do turn off manual gas shut-off valve if water heater has been subjected to overheating, fire, flood, physical damage or if the gas supply fails to shut off.
- B** Do Not turn on water heater unless water and gas supplies are fully opened.
- C** Do Not turn on water heater if cold water supply shut-off valve is closed.
- D** Do Not allow combustible materials such as newspaper, rags or mops to accumulate near water heater.
- E** Do Not store or use gasoline or other flammable vapors and liquids, such as adhesives or paint thinner, in vicinity of this or any other appliance. If such flammables must be used, open doors and windows for ventilation, and all gas burning appliances in the vicinity should be shut off including their pilot lights, to avoid vapors lighting.
- F** If there is any difficulty in understanding or following the Operating Instructions or the Care and Cleaning section, it is recommended that a qualified person or serviceman perform the work.

NOTICE: Flammable vapors can be drawn by air currents from surrounding areas to the water heater.

▲ DANGER: There is a hot water scald potential if the temperature is set too high. Households with small children, disabled or elderly persons may require a 120°F (49°C) or lower temperature setting to prevent contact with HOT water.

Water Temperature Setting

The temperature of the water in the water heater can be regulated by setting the temperature on the front of the remote control.

Safety factors should be considered when selecting the water temperature setting of the water heater's remote control.

The remote control was set at 100°F (38°C) before the water heater was shipped from the factory. This is the recommended starting point.

Water temperatures above 125°F (52°C) can cause severe burns or death from scalding.

Be sure to read and follow the warnings outlined in this manual and on the label located on the water heater.

Mixing valves are available for reducing point of use water temperature by mixing hot and cold water in branch water lines. Contact a licensed plumber or the local plumbing authority for further information. (See page 4 for more details.)

The chart below may be used as a guide in determining the proper water temperature for your home.

Time/Temperature Relationship in Scalds

Water Temperature	Time To Produce a Serious Burn
120°F (49°C)	More than 5 minutes
125°F (52°C)	1½ to 2 minutes
130°F (54°C)	About 30 seconds
135°F (57°C)	About 10 seconds
140°F (60°C)	Less than 5 seconds
145°F (63°C)	Less than 3 seconds
150°F (66°C)	About 1½ seconds
155°F (68°C)	About 1 second

Table courtesy of Shriners Burn Institute

Water Temperature Setting...

Maximum water temperature occurs while the burner is on. To determine the water temperature, turn on a hot water faucet and place a thermometer in the water stream. Water temperature at the faucet may vary depending on season and length of pipe from the water heater.

The factory setting of the remote control temperature range is between 100°F (38°C) and 120°F (49°C).

The remote control is factory preset to 100°F (38°C).

To turn the remote control ON or OFF, press the POWER button.

To adjust the temperature to a required setting, press the UP arrow temperature button.

Pressing the UP or DOWN temperature adjustment buttons will change the temperature set point.

The temperature set point on the remote control cannot be increased above 112°F (44°C) when a hot water faucet is in the open position.

Notice: The remote control cannot be turned on when water is flowing or circulating through the water heater.

Notice: The factory setting allows operating temperatures between 100°F (38°C) and 120°F (49°C). Temperatures of up to 140°F (60°C) for Light duty models and up to 180°F (82°C) for Heavy Duty models can be achieved with the MAIN (UMC-117) remote control and a dip switch adjustment. Only qualified service personnel should perform

this adjustment. Only factory authorized remote control(s) should be used.

The hottest temperature water will be at the hot water faucet closest to the water heater.

Always remember to test the water temperature with your hand before use and remember that hotter water increases the risk of scald injury.

Always supervise young children or others who are incapacitated.

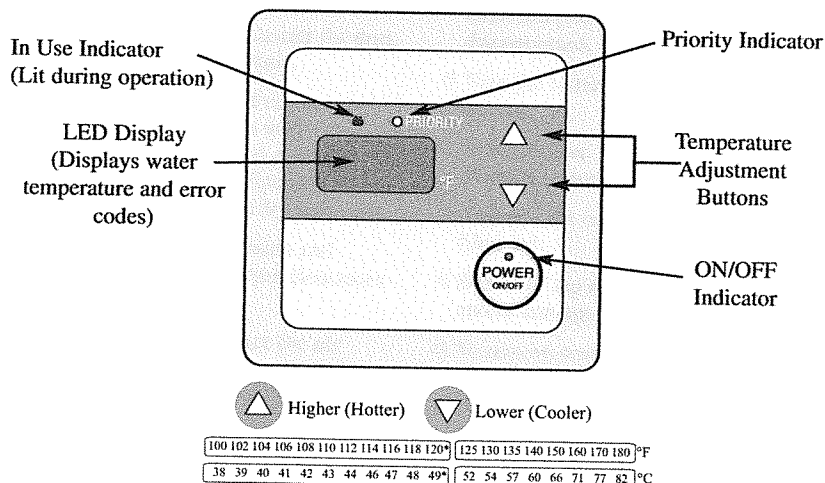
The water heater is equipped with a device that will shut off the gas supply to the burner if the water heater exceeds normal operating temperatures. Refer to the "Before You Call For Service" section located near the back of this manual, or contact your dealer.

▲ WARNING: Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the appliance.

If the water heater has been subjected to fire, flood, physical damage, or has been under water, turn off the manual gas shut-off valve(s), and do not operate the water heater again until it has been checked by qualified personnel.

Notice: The water heater may not operate with a small water flow. In such case, increase the water flow. If water heater still does not operate and hot water faucet is completely open, increase the temperature setting on the remote control.

Notice: Display shows °F only.



Notice: Only heavy duty water heaters can achieve temperatures up to 180°F (82°C).

* Temperatures above 120°F (49°C) can be achieved by adjusting the dip switch. See page 35 for dip switch adjustment.

⚠ DANGER: DO NOT attempt to operate the water heater without the air intake filter. **DO NOT** alter the air filter door switch to force the unit to operate without the air intake filter.

NOTICE: The water heater may not work if the air intake filter is severely clogged.

Housekeeping, continued

CLEANING THE AIR INTAKE FILTER (Indoor model only):

- Make sure the unit is OFF and the electrical power supply has been disconnected.
- Unscrew the holding screw to the right of the filter, and slide the filter down.
- Using a vacuum cleaner, remove any loose dust particles. **DO NOT** tap the filter as it may deform and/or damage the filter.
- To remove severe dust, use a soft brush and wash with running water.
- Allow the filter to dry completely before reinstalling the filter on the water heater. Be sure to secure the filter by lining the guide tab in the hole and tightening the screw.

CLEANING THE WATER HEATER AND REMOTE CONTROL(S):

- Make sure the unit is OFF and the electrical power supply has been disconnected.
- **DO NOT** scrub the appliance with a brush.
- Use only mild soapy water; other cleaners may damage the surface of the water heater.
- **DO NOT** remove any label including the rating plate while cleaning or servicing.
- **DO NOT** splash water on the remote controls when cleaning.

Venting System Inspection

The venting system of an indoor water heater should be inspected annually to ensure all of the vent sections are secure and air-tight.

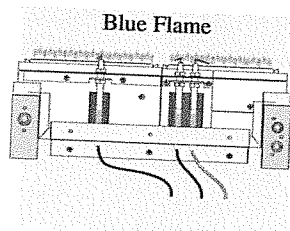
It is recommended that qualified service personnel familiar with Category III venting inspect the venting system.

Check vent connection joint sections with a solution of soapy water to assure air-tightness while the unit is operating.

Bubbles around a joint connection indicates a seal leak. Refer to page 10 for vent sealing instructions.

DO NOT operate the unit if vent system shows signs of leaking exhaust.

Check to make sure that the air intake and vent outlet on the **OUTDOOR** water heater or the air intake filter and the vent terminal on the **INDOOR** water heater has not been blocked or contain debris.



Proper burner pattern.

Burner Inspection

Visually inspect the main burners annually.

Through the side sight glass, inspect the burner flame. Blue flames should be seen when the main burner is firing.

If any unusual burner operation is noted, the water heater should be shut off until qualified service assistance can be obtained.

⚠ CAUTION: For your safety, burner inspection and cleaning should be performed only by qualified service personnel.

For cleaning, a vacuum cleaner can be used on the burner.

NOTICE: Refer to the Freeze Protection Section on page 31.

Vacation and Extended Shut-Down

If the water heater is to remain idle for an extended period of time, the power and water to the appliance should be turned off.

The water heater and piping should be drained if they might be subjected to freezing temperatures.

After a long shut-down period, the water heater's operation and controls should be checked by qualified service personnel.

⚠ CAUTION: Do not operate without the condensate trap connected to the vent and routed to the proper drain.

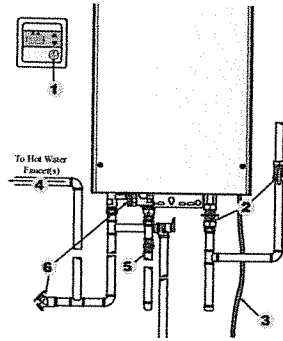
Condensate Trap Inspection

On a regular basis, inspect the condensate trap to ensure there is enough water in the trap and the condensate is draining properly.

Ensure that condensate is disposed of per local codes and regulations.

Care and cleaning of the water heater:

Draining the Water Heater



Draining the water heater

⚠ WARNING: Failure to follow these instructions while draining the water heater can cause serious damage to the water heater as well as personal injury, including scalding.

⚠ CAUTION:

Even when drained properly, a small amount of water will remain in the water heater. In cold weather, conditions this water can freeze. If this happens allow the defrost protection on the heater at least 30 minutes to melt the frozen water or the water heater may not work properly.

⚠ WARNING: Failure to drain the water heater can cause serious damage to the water heater as well as personal injury.

NOTICE: DO NOT unplug the electric power supply cord for freeze protection.

Below are instructions for draining water out of the water heater.

- 1 Turn off the switch on the remote control.
- 2 Close the gas shut-off valve(s).
- 3 Unplug the power supply cord (or disconnect breaker) at least 10 seconds after step #1.
- 4 Open all hot water faucets. Before proceeding to the next step, make sure that COLD water is coming out of all hot water faucets.
- 5 Close the water shut-off valve.
- 6 Using a suitable container to catch water, remove the water filter from heater. Attach a garden hose to the drain valve installed in the hot water outlet line and direct the

stream of water to a suitable drain where it will cause no damage. Leave water heater as is until next use.

To put the water heater back into operation after draining, follow the steps below.

- 1 Reinstall the drain plug and water filter. Close the hot water outlet drain valve.
- 2 Open the water shut-off valve and close again after making sure that water comes out from hot water faucets. (This step is to remove air from the water lines.)
- 3 Plug into an electrical outlet, fully open the gas shut-off valve and the water shut-off valve.

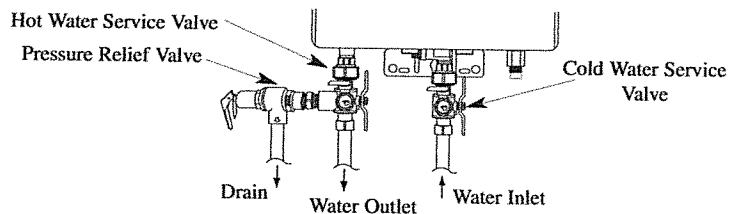
NOTICE: The water heater may not operate unless the above procedure is followed correctly.

Optional Maintenance Method

Isolator valve kits may be purchased as optional items from manufacturer, distributor or place of purchase. They allow for one person full

diagnostic testing and ease of flushing the system.

The kit includes two full port isolation valves, one for the cold side and one for the hot side.



Freeze Protection

Where the water heater may be exposed to freezing conditions, even for a short period of time, be sure to drain all water from the unit as instructed above.

Exposure to freezing conditions can occur from down draft of venting system or from installation in areas exposed to cold air.

The water heater is equipped with a Freeze Protection Electric Heater. As long as electricity is supplied to the water heater, it prevents freezing inside the water heater down to an ambient temperature of approximately minus 30°F (-34°C) (without wind conditions).

This device only protects the internal components of the water heater. It does NOT protect piping and valves. Therefore, piping and valves should be wrapped with insulation material as instructed on page 24.

Another method of freeze prevention is by running a small volume of water. Running water will protect the water heater, piping and valves.

Follow the steps below to ensure proper water flow through the water heater and piping:

- 1 Turn off the switch on the remote control.
- 2 Close the gas shut-off valve.
- 3 Open the hot water faucet slightly until a stream of approximately 1/8" (.32 cm) is flowing. Be sure to check the flow periodically.

Before You Call For Service...



Troubleshooting Tips

Save time and money! Review the charts on the following pages first and you may not need to call for service.

Problem	Possible Cause	What To Do
Not enough or no hot water.	Water Shutoff valve is not fully opened.	● Check shutoff valve and open fully.
	Hot water faucet is not fully opened.	● Open hot water faucet completely. (The main burner goes off when incoming water volume is inadequate.)
	Water piping is frozen.	● Allow piping to thaw.
	No electricity or water supply is cut off.	● Check that proper power is being supplied and/or water supply is adequate.
	Unit is not "ON".	● Turn the unit "ON" by the button on the remote control.
	The temperature may be set too low.	● Increase the temperature setting.
	Mixing Valve Malfunctions (if applicable)	● Check and replace if necessary.
	Error code displayed on remote control.	● See instructions for Error Code and if required, contact a dealer for service.
	Not enough water demand.	● Increase water flow.
	Water inlet filter clogged.	● Clean water inlet filter.
	Fixture aerator is clogged.	● Clean aerator.
	Scale buildup in heat exchanger.	● Check for error code. If required, contact a dealer for service.
	Hot and cold water lines reversed.	● Reverse water connections.
Water not hot enough.	The temperature may be set too low.	● Increase the temperature setting.
	The gas valve is not fully opened.	● Check and open the gas valve fully.
	Gas supply pressure is low.	● Call your gas company to verify the gas meter and gas piping size.
	Bleed over in one of the hot water fixtures.	● Call dealer for service.
Water too hot.	Temperature is set too high.	● Decrease the temperature setting.
	Water shutoff valve is not fully opened.	● Check shutoff valve and open fully.
	Small amount of water has been heated.	● Allow more water to flow.
Fan continues to rotate after hot water faucet is closed.	This function is to supply hot water when the hot water faucet is reopened.	● Normal operation. There is no need to call for service.

⚠ CAUTION: Make certain power to water heater is "OFF" before removing protective cover FOR ANY REASON.

⚠ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. VERIFY PROPER OPERATION AFTER SERVICING.

⚠ CAUTION: For your safety, DO NOT attempt repair of electrical wiring, gas piping, remote control, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.

Error Code Guide:

When an error code is displayed:

- Close the hot water faucet, turn off the switch on the remote control.
- Wait for about 5 minutes before turning the switch on again.
- Open the hot water faucet.

If the error code remains in the display:

- Close the hot water faucet and turn off the switch on the remote control.
- Take the proper action shown below and attempt operation of the appliance again.

If the error code is still shown:

- Turn off the hot water faucet and turn off the switch on the remote control.
- Take note of the error code displayed and call the customer service assistance number in the "If You Need Service" section of the manual on the back cover.

Notice: If an error code other than those listed below is displayed, immediately turn off the hot water faucet, take note of the error code, turn off the switch on the remote control and call the customer assistance number.

Error Code	Possible Cause	What To Do
11 or 12	The Gas shutoff valve is not opened fully. Gas service has been interrupted. LP Gas is running low. (LP models only). Air in Gas Line. Power supply not grounded. Low inlet gas pressure due to improper sizing Wrong gas type. Improper venting, vent material, or vent configuration.	● Open the Gas shutoff valve fully. ● Contact gas utility company. ● Fill up LP Gas container or replace with a new cylinder of LP Gas. ● Bleed all air from gas lines. ● Ensure appliance is properly grounded. ● Ensure gas line, meter, and regulator are sized properly. ● Ensure gas type is correct. ● Ensure venting is per Use & Care Manual. Contact a dealer for service.
15	The hot water faucet is not opened enough. Water heater has build up of lime deposits.	● Open the faucet more to secure enough volume. ● Contact a dealer for service.
05 or 13 (On error code 05 only: Every 60 seconds you hear an alarm or when the faucet is closed, the alarm stops.) (On error code 13 only: Unit shuts down.) Indoor Water Heater Only	Air intake of the unit and/or vent termination may be blocked. Ventilator or other vents of the room may be blocked. The air inside the room may be contaminated due to long use of a fireplace or spaceheater. Heavy ventilation by other equipment or appliances causing the lack of air intake to the water heater. Air shortage may be caused by too much steam in the unit. Air intake filter is clogged. If the error code is still displayed after taking the above steps.	● Remove any obstructions of the air intake or vent termination. ● Clean the air intake of any dust or grease buildup. ● Open a window or vent to keep the air inside the room fresh. ● Lower the level of the ventilation of other equipment or appliances. ● Avoid direct contact from steam. ● Clean the air intake filter. ● Please contact a dealer for service.
1L	Water heater has buildup of lime deposits.	● Contact a dealer for service.
99 Outdoor Water Heater Only	Decrease of blower motor ventilation volume. (Operation Stops)	● Clean any blockage from heat exchanger fins and/or blower motor

⚠ CAUTION: Make certain power to water heater is "OFF" before removing protective cover FOR ANY REASON.

⚠ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. VERIFY PROPER OPERATION AFTER SERVICING.

⚠ CAUTION: For your safety, DO NOT attempt repair of gas piping, remote control, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.

Replacement Parts:

Outdoor Water Heater

⚠ WARNING: For your safety, **DO NOT** attempt to disassemble this unit for any reason.

Instructions For Placing a Parts Order

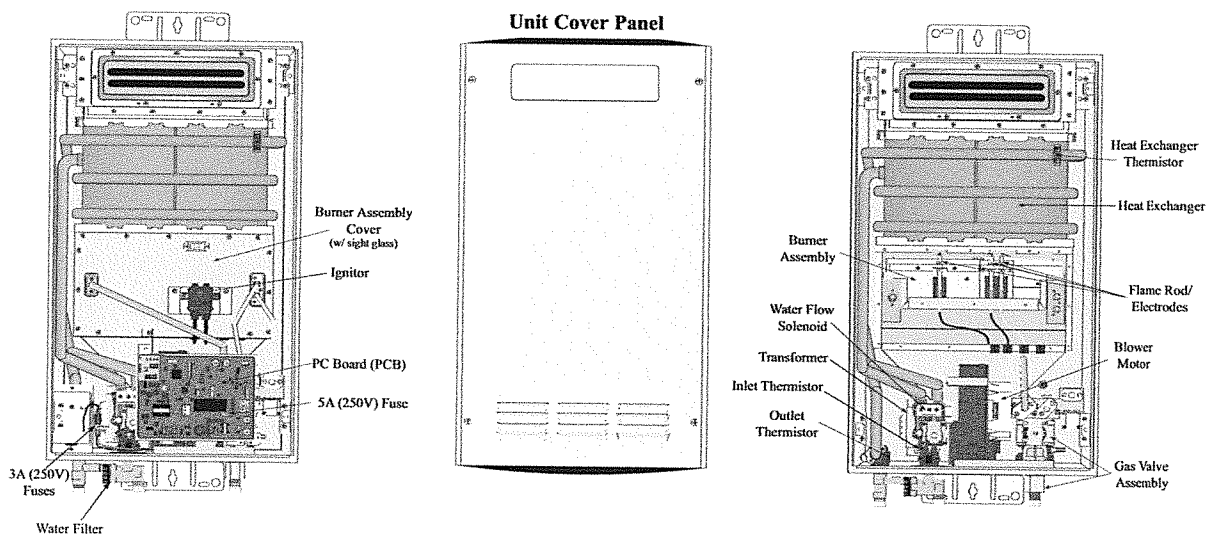
Address parts orders to the distributor or store where the water heater was purchased.

All parts orders should include:

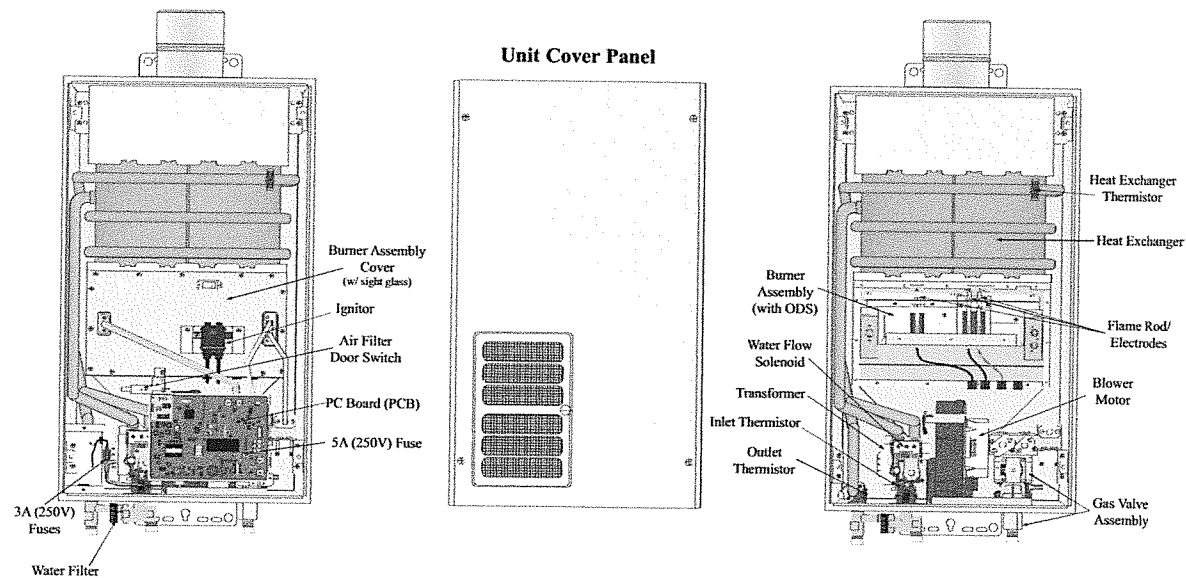
- 1** The model and serial number of the water heater from the rating plate.
- 2** Specify type of gas (natural or LP) as marked on the rating plate.

- 3** Part description (as noted below) and number of parts desired.

⚠ CAUTION: For your safety, **DO NOT** attempt repair of electrical wiring, gas piping, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.



Indoor Water Heater



**The content on this page is intended for use by qualified
installation/service personnel ONLY.**

▲ WARNING: Improper adjustment, alteration, service or maintenance can cause property damage, personal injury, or death.

Temperature Setting DIP Switch Adjustment

Required adjustment for up to 140°F (60°C) for Light Duty or 180°F (82°C) for Heavy Duty water heater temperature settings

▲ WARNING: Refer to scald potential warnings on page 4 before making adjustment. Changing this setting is done at your own risk.

DO NOT alter the #4 DIP Switch if the setting of up to 140°F (60°C) is not required.

Follow the instructions below if it is determined that a setting of up to 140°F (60°C) for Light Duty or 180°F (82°C) for Heavy Duty is required.

- Turn off remote control. Turn off the gas and water shutoff valves.
- Remove the front cover.
- Find the DIP Switch #4 located at the top left hand side of the PCB. (See diagram to the right for DIP Switch location).
- Change the DIP Switch #4 setting to the "ON" position. DO NOT alter any other DIP Switch. The LED on the PCB is flashing. At the same time, the display of the Main Remote Control starts to flash.
- Press the "SW1" button on the left hand side of the PCB for more than 1 second. The LED on the PCB starts illuminating continuously. At the same time, the display of the Main Remote Control is on continuously.
- Change the DIP Switch #4 setting back to the "OFF" position. DO NOT alter any other DIP Switch. The LED on the PCB will stop illuminating. At the same time, the display of the Main Remote Control will turn off.
- Attach the unit's front cover.
- Turn on the remote control, gas and water shutoff valves.
- Check and ensure safe operation and performance of the water heater.

See steps below to **LIMIT** maximum water temperature setting to 120°F (49°C).

Follow first four bullets points listed above, then continue as listed below:

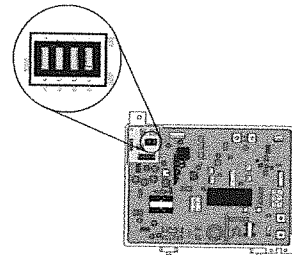
- Press the "SW2" button on the left hand side of the PCB for more than 1 second. The LED on the PCB starts illuminating continuously. At the same time, the display of the Main Remote Control is on continuously.
- Change the DIP Switch #4 setting back to the "OFF" position. DO NOT alter any other DIP Switch. The LED on the PCB will stop flashing. At the same time, the display of the Main Remote Control will turn off.
- Attach the unit's front cover.
- Turn on the remote control, gas and water shutoff valves.
- Check and ensure safe operation and performance of the water heater.

▲ DANGER: Hotter water increases the potential for Hot Water SCALDS.

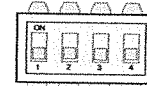
Time/Temperature Relationship in Scalds

Water Temperature	Time To Produce a Serious Burn
120°F (49°C)	More than 5 minutes
125°F (52°C)	1-1/2 to 2 minutes
130°F (54°C)	About 30 seconds
135°F (57°C)	About 10 seconds
140°F (60°C)	Less than 5 seconds
145°F (63°C)	Less than 3 seconds
150°F (66°C)	About 1-1/2 seconds
155°F (68°C)	About 1 second

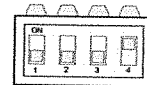
Table courtesy of Shriners Burn Institute



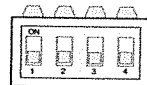
Location of DIP Switches on PC Board.



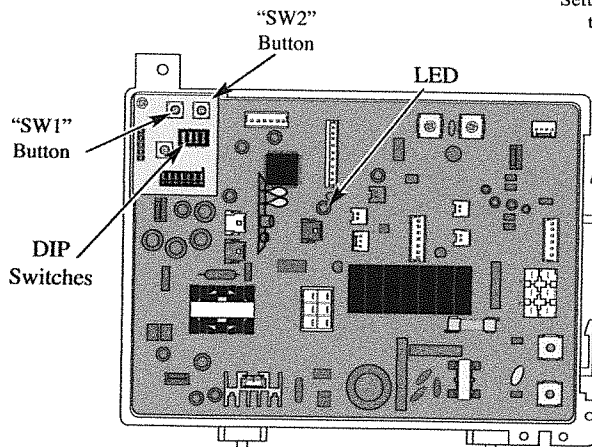
As set from factory



Setting during adjustment to DIP Switch #4 for temperature.



Setting after adjustment to DIP Switch #4 for temperature.



IF YOU NEED SERVICE



1. Should you have any questions about your new water heater, or if it requires adjustment, repair, or routine maintenance, it is suggested that you first contact your installer, plumbing contractor or previously agreed upon service agency. In the event the firm has moved, or is unavailable, refer to the telephone directory, commercial listings or local utility for qualified service assistance.
2. Should your problem not be solved to your complete satisfaction, you should then contact the Manufacturer's National Service Department at the following address:
2600 Gunter Park Drive
Montgomery, Alabama 36109-1413
Phone: 1-800-432-8373.

When contacting the manufacturer, the following information will be requested:

- a. Model and serial number of the water heater as shown on the rating plate attached to the front panel of the heater.
- b. Address where the water heater is located and physical location.
- c. Name and address of installer and any service agency who performed service on the water heater.
- d. Date of original installation and dates any service work was performed.
- e. Details of the problem as you can best describe them.
- f. List of people, with dates, who have been contacted regarding your problem.

Important Instructions for the Commonwealth of Massachusetts

The Commonwealth of Massachusetts requires compliance with regulation 248 CMR 4.00 and 5.00 for installation of through – the – wall vented gas appliances as follows:

(a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. **INSTALLATION OF CARBON MONOXIDE DETECTORS.** At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors

- a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
- b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. **APPROVED CARBON MONOXIDE DETECTORS.** Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

3. **SIGNAGE.** A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2)" in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

4. **INSPECTION.** The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

(b) **EXEMPTIONS:** The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c) **MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED.** When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

1. Detailed instructions for the installation of the venting system design or the venting system components; and
2. A complete parts list for the venting system design or venting system.

(d) **MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED.** When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

(e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.