

RESTAURANT DESIGN

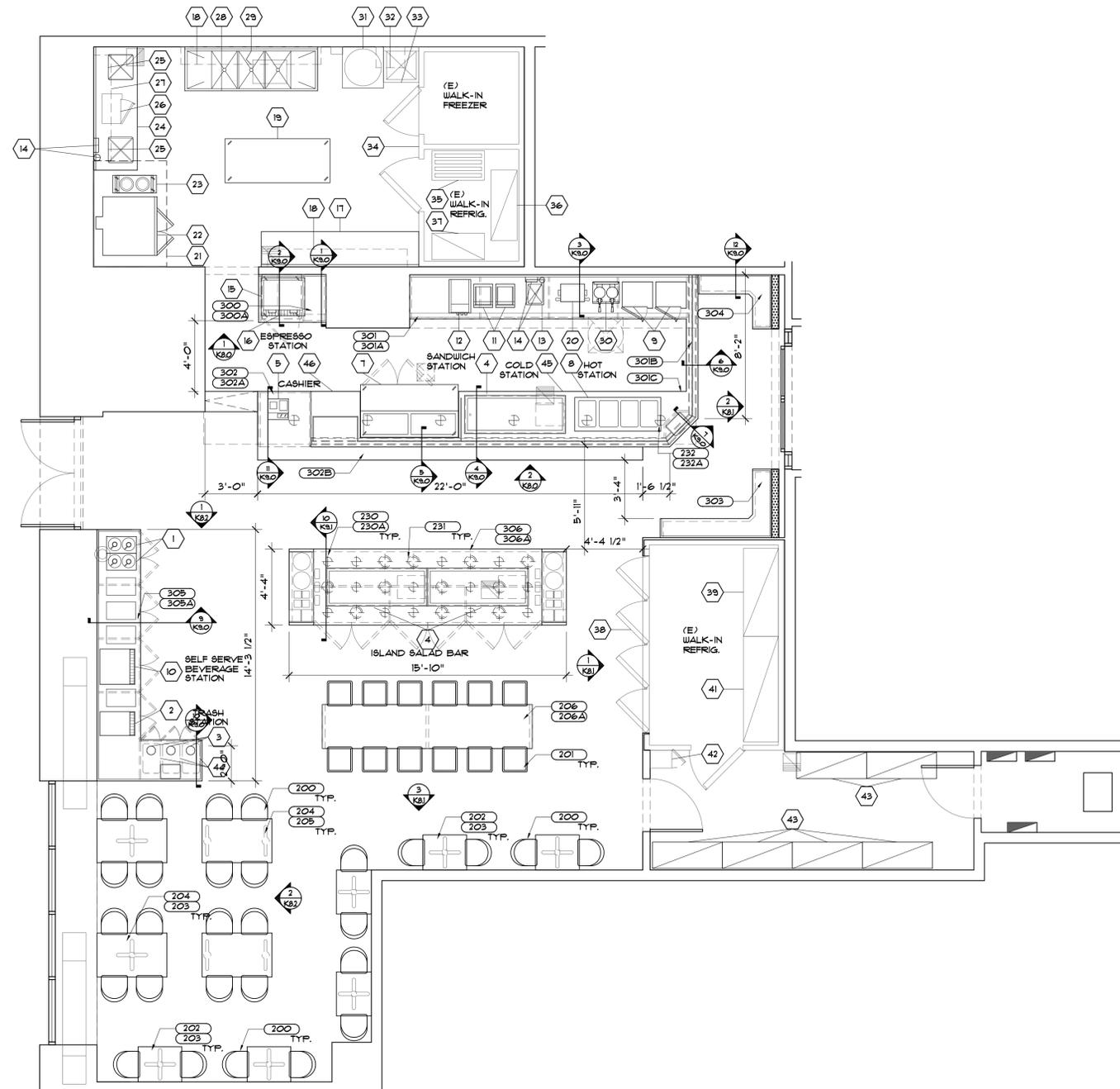
CONCEPTS INC.

1017 22ND AVE.
SUITE 110B
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OAKLAND, CALIFORNIA 94606

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HIGH XII

1111 FRANKLIN STREET, STE. 7403
OAKLAND, CA. 94607



FLOOR PLAN

SCALE 1/4" = 1'-0"

FOR EQUIPMENT SCHEDULE
SEE SHEET K3.1
FOR FURNITURE & FIXTURE
SCHEDULE SEE SHEET K3.2

PRELIMINARY MM DD, YY
ISSUE DESCRIPTION DATE



THESE DRAWINGS AND SPECIFICATIONS AND THE CONCEPTS EMBODIED WITHIN THESE CONCEPTS ARE THE ORIGINAL UNPUBLISHED WORKS OF RESTAURANT DESIGN CONCEPTS, INC. SUCH AND MAY NOT BE USED, REPRODUCED OR DUPLICATED WITHOUT WRITTEN CONSENT OF RESTAURANT DESIGN CONCEPTS, INC. WHETHER THE PROJECT FOR WHICH THEY WERE PRODUCED IS EXECUTED OR NOT, UNLESS OTHERWISE AGREED UPON BY WRITTEN CONTRACT.

DATE: February 25 2014
DRAWN BY: JP CHECK: JY
JOB NO: 131206 SCALE: 1/4"=1'-0"

TITLE: FLOOR PLAN

SHEET: K3.0

NOTE: QUINER SUPPLIED ITEMS TO BE BID & PROVIDED FOR BY GENERAL CONTRACTOR			EQUIPMENT SCHEDULE	ELECTRICAL SCHEDULE										PLUMBING SCHEDULE									
ITEM NO.	SUPPLIED BY	QTY.	DESCRIPTION	INSTALLED BY	VOLT.	PH	LOAD				ELEC. REMARKS	INSTALLED BY	WATER			WASTE			GAS			PLUMBING REMARKS	
							WATT	AMPS.	HP	HT.			CW	HU	HT	DIR	INDIR	HT	BTU 1000	CONN SIZE	HT		
1	TENANT	1 EA.	COFFEE MAKING SYSTEM	E.C.	VFY	1		VFY			SEE PLAN	P.C.	1/2"		SEE PLAN						PROVIDE 80V. RUN 1/4" COPPER TUBING TO UNIT CONNECTION		
2	TENANT	1 EA.	ICE MAKER AND WATER DISPENSER	MANITOWOC RNB2A	E.C.	115	1	10.3	1/3	44"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.	P.C.	1/2"		46"	1"					PROVIDE 80V. RUN PIPING TO UNIT CONNECTION. RUN IND. DRAIN TO FLOOR SINK		
3	OWNER	3 EA.	6" DIA. STN. STL. GARBAGE CHUTE	STN. STL. FABRICATOR																			
4	TENANT	3 EA.	DROP-IN MECHANICAL COLD PAN. 69"L. X 26"W X 21"D. SELF CONTAIN 115V.	RANDELL 99726CA	E.C.	115	1	5.0	1/4	SEE PLAN	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.	P.C.				1"					RUN IND. DRAIN TO FLOOR SINK		
5	TENANT	1 LOT	POINT OF SALE SYSTEM		E.C.	115	1	4.0		SEE PLAN	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
6			SPARE NUMBER																				
7	TENANT	1 EA.	TWO DOOR PIZZA PREP TABLE. 61"L. X 32"D. 88. CABINET CONSTRUCTION 88. INTERIOR SHELVING, INSULATED PAN COVER. 115V.	TURBO-AIR TFR-675D	E.C.	115	1	10.4	2/3	45"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
8	TENANT	1 EA.	DROP-IN HOT FOOD WELLS, 4 WELLS, WITH AUTO FILL AND WATER LEVELER. UL LABEL. ELECTR. BUILT-IN DRAIN. 12" X 20" WELLS WITH DRAIN. 208V, SINGLE PHASE.	A.P.W. SHUFLEZ-4D	E.C.	208	1	27.0		45"	MOUNT JBOX IN WALL. RUN SEAL TIGHT FLEXT CONDUIT TO UNIT CONNECTION.	P.C.	1/2"		46"	1"					PROVIDE 80V. RUN PIPING TO UNIT CONNECTION. RUN IND. DRAIN TO FLOOR SINK		
9	TENANT	2 EA.	1000 WATT. MICROWAVE OVEN WITH PRE-SET BUTTONS, 115V, SINGLE PHASE	PANASONIC NE-1022	E.C.	115	1	1000	13.4	48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
10	TENANT	1 EA.	SOFT SERVE YOGURT MACHINE		E.C.	VFY	VFY	VFY		48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
11	TENANT	2 EA.	SMOOTH TWO-SIDED IRON PANINI GRILL	STAR GRIO1B	E.C.	115	1	1800	15.0	48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
12	TENANT	1 EA.	COMPACT CONVEYOR TOASTER	STAR QCS1-350	E.C.	115	1	1,600	13.8	48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
13	G.C.	1 EA.	STN. STL. DROP-IN HAND SINK WITH FAUCET. 12"W X 11"L X 10"D.	GSU HS-1311HG								P.C.	1/2"	1/2"	46"	1 1/2"		23"			PROVIDE 80V. RUN PIPING TO UNIT CONNECTION. INSTALL "P" TRAP AS REQUIRED.		
14	OWNER	1 LOT	SOAP AND PAPER TOWEL DISPENSER																				
15	TENANT	1 EA.	SUPER DELUXE SERIES SINGLE DOOR UNDER COUNTER REFRIGERATOR. HINGE RIGHT 21 1/2"W X 30"D. ON CASTERS. SELF CONTAIN.	TURBO-AIR TUR-285D	E.C.	115	1	6.6	1/4	45"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
16	TENANT	1 EA.	TWO GROUP ESPRESSO MACHINE TO BE INSTALLED ON 4 INCH LEGS		E.C.	VFY	1	VFY		48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.	P.C.	1/2"		48"	1"					RUN IND. DRAIN TO FLOOR SINK		
17	TENANT	1 EA.	STN. STL. WORK TABLE. 71"-0"L X 30"D. 4" BACK SPLASH. 16GA. TOP AND UNDER SHELF. ALL WELDED CONSTRUCTION. G.C. TO REFURBISH TO NEW CONDITION	STN. STL. FABRICATOR																			
18	EXISTING	4 EA.	36"L X 12"W STN. STL. WALL SHELVING WITH BRACKET.																				
19	TENANT	1 EA.	STN. STL. WORK TABLE. 61"-0"L X 30"D. NO SPLASH. PROVIDED WITH STN. STL. UNDER SHELF AND LOCKABLE CASTERS. ALL WELDED CONSTRUCTION.	STN. STL. FABRICATOR																			
20	TENANT	1 EA.	COUNTER TOP STEAMER. ELECTRIC CONTROL PANEL. SELF-CONTAINED WATER RESERVOIR. 120V	NEMCO THE FRESH-O-MATIC 6625	E.C.	115	1	1,500	12.5	48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
21	EXISTING	1 EA.	STN. STL. TYPE I EXHAUST HOOD. 61"-9"L X 4'-2"D. WITH LIGHTS AND FILTERS.																				
22	EXISTING	1 EA.	SINGLE DECK CONVECTION OVEN. TWO SPEED FAN. 208V. GLASS DOORS	BAKERS PRIDE ECO-E1	E.C.	208	1	10,500	48	1/4	30"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.											
23	EXISTING	1 EA.	ELECTRIC HOT PLATE WITH EQUIPMENT STAND		E.C.	VFY	VFY	VFY	VFY	45"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
24	EXISTING	1 EA.	STN. STL. WORK TABLE. 71"-0"L X 30"D. 4" BACK SPLASH. WITH (2) 11" X 11" X 12"D SINKS LOCATED AT EACH ALL WELDED CONSTRUCTION. ONE DIRECT DRAIN. ONE INDIRECT DRAIN. G.C. TO REFURBISH TO NEW CONDITION.	STN. STL. FABRICATOR								P.C.					1 1/2"		46"			PROVIDE "P" TRAP. RUN PIPING TO UNIT CONNECTION. RUN IND. DRAIN TO FLOOR SINK	
25	EXISTING	2 EA.	DECK MOUNT FAUCET WITH 10" SWING NOZZLE.	GSU AA-893G / AA-010G								P.C.	1/2"	1/2"	46"						PROVIDE 80V. RUN PIPING TO UNIT CONNECTION.		
26	TENANT	1 EA.	MICROWAVE OVEN																				
27	EXISTING	2 EA.	12"L X 12"W STN. STL. WALL SHELVING WITH BRACKET.																				
28	EXISTING	1 EA.	THREE COMPARTMENT POT SINK 18" X 24" TUBS WITH TWO 18" DRAIN BOARDS. 16 GA. TOP AND SINK G.C. TO RE-USE AND RECONNECT EXISTING FAUCET AS REQUIRED.	STN. STL. FABRICATOR								P.C.					2"					VERIFY WITH MECHANICAL ENGINEER'S PLANS FOR DRAINAGE TO GREASE TRAP REQUIREMENT	
29	EXISTING	1 EA.	SPLASH MOUNT FAUCET WITH 12" SWING NOZZLE. PRE-RINSE FAUCET WITH WALL BRACKET.	GSU AA-988G / AA-944G / AA-944G								P.C.	1/2"	1/2"	46"						PROVIDE 80V. RUN PIPING TO UNIT CONNECTION.		
30	TENANT	1 EA.	DOUBLE WAFFLE MAKER. 120V.	WARING WJ250	E.C.	115	1	2,400	20.0	48"	PROVIDE OUTLET IN WALL HORIZONTALLY. UNIT PROVIDED WITH CORD AND PLUG.												
31	OWNER	1 EA.	HOT WATER HEATER (MECHANICAL ENGINEER TO VERIFY SIZE TO MEET HEALTH DEPARTMENT'S AND BUILDING DEPARTMENT'S REQUIREMENTS)	RHEEM E950-15-G OR EQUAL																			
32	EXISTING	1 EA.	CHEMICAL CABINET																				
33	EXISTING	1 EA.	LOW FLOOR MOUNT MODEL STN. STL. MOP SINK. 24" X 24" X 10"H.																				
34	EXISTING	1 EA.	COMBO WALK-IN REFRIGERATOR / FREEZER. REFRIGERATOR SIDE 71"-0"W X 6'-0"D. 8'-0"H. NO FLOOR. FREEZER SIDE 5'-10"L X 6'-0"D. X 8'-0"H. WITH FLOOR.																				
35	EXISTING	1 EA.	ALUMINUM DUNNAGE RACK 20"W X 36"L.																				
36	EXISTING	1 SET	POLYMER SHELVING. LOUVERED. 18" X 48" X 14"H. 4 TIERS.																				
37	EXISTING	1 SET	POLYMER SHELVING. LOUVERED. 18" X 36" X 14"H. 4 TIERS.																				
38	EXISTING	1 SET	WALK-IN REFRIGERATOR WITH GLASS DOORS. 12'-0"W X 8'-0"D. 8'-0"H. NO FLOOR.																				
39	EXISTING	1 SET	POLYMER SHELVING. LOUVERED. 24" X 60" X 14"H. 4 TIERS.																				
40			SPARE NUMBER																				
41	EXISTING	1 SET	POLYMER SHELVING. LOUVERED. 24" X 72" X 14"H. 4 TIERS.																				
42	EXISTING	1 SET	EMPLOYEE'S LOCKERS. 5 TIERS.																				
43	TENANT	6 SETS	ZINC WIRE SHELVING. 18" X 48" X 12"H. 4 TIERS.	EAGLE 94-14-1848Z																			
44	TENANT	1 LOT	GARBAGE CAN																				
45	OWNER	1 EA.	STN. STL. SUPPORT BASE W/ OPEN SHELF BELOW. 13'-11"L X 2'-11"D WITH 6"H LEGS. PROVIDE CUT OUT AND INSTALL FOR ITEMS 44 AND 43. 88. CHANNEL SUPPORT FOR STONE TOP. STONE TOP BY OTHERS.	STN. STL. FABRICATOR																			
46	OWNER	1 EA.	STN. STL. SUPPORT BASE W/ OPEN SHELF BELOW. 2'-10"L X 2'-11"D WITH 6"H LEGS. 88. CHANNEL SUPPORT FOR STONE TOP. STONE TOP BY OTHERS.	STN. STL. FABRICATOR																			
E1	OWNER	SEE PLAN	CONVENIENCE OUTLET	E.C.	115	1				SEE PLAN	MOUNT OUTLET IN WALL HORIZONTALLY	P.C.	1/2"	1/2"	46"								
F1	OWNER	SEE PLAN	FLOOR SINK	JR SMITH 2010A OR EQ.								P.C.							1 1/2"		INSTALL FLUSH W/ FINISH FLOOR W/ GRATE W/ DOME STRAINER. INSTALL SO FRONT ALIGNS W/ FACE OF CABINET OR EQUIPMENT.		
F2	OWNER	SEE PLAN	FLOOR DRAIN	COMMERCIAL 906								P.C.							1 1/2"		INSTALL FLUSH W/ FINISH FLOOR. PROVIDE TRAP PRIMER. SLOPE FLOOR TO DRAIN.		
F3	OWNER	SEE PLAN	HOSE BIBB W/ BUILT IN VACUUM BREAKER									P.C.	1/2"		23"								

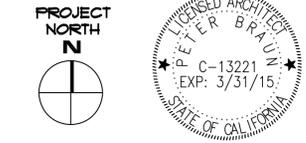
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DATE: February 25 2014
DRAWN BY: JP CHECK: JT
JOB No: 131206 SCALE: N/A

EQUIPMENT SCHEDULE

SHEET: K3.1



The new degree of comfort.™



Commercial Electric
Heavy Duty Water Heaters

Heavy Duty Electric commercial water heaters are available in 50 through 175 gallon capacities. All models ‘quick ship’ from Rheem warehouses – no deposit required

Features & Benefits

- 50, 85, 120 and new 175 gallon model can be shipped to your location in just a few days, no deposit required and Rheem pays shipping charges
- Ideal for general commercial use and point-of-use applications like eyewash stations, or used as a booster
- Inputs: 3 through 108 kW
- Voltages: 208, 240, or 480 VAC in either single phase or 3-phase; 277 VAC single phase
- Element wattages: 2000, 3000, 4000, 4500, 5000 and 6000 in the four voltages; 9000 watt element at 480 VAC
- Choose 1, 3, 6, 9 or 12 element models for your specific application
- Elements are Lifeguard™ stainless steel, screw-in type that resist burn out and corrosion
- ASME construction is available on 50, 85 and 120 gallon models and comes standard on 175 gallon
- Long life tank design: proprietary steel formulation with high temperature porcelain enamel to maximize corrosion resistance resulting in a superior tank design
- Two anode rods are installed to ensure long life and corrosion resistance

Efficiency

- 98% thermal efficiency
- Thick foam insulation for minimal standby heat loss

Performance

- Recovery rate: Up to 438 gallons GPH at a 100 degree rise
- 190° F maximum delivered temperature

Capacity & Shipping Weight

- 50 Gal/270 lbs./320 lbs. ASME
- 85 Gal/350 lbs./380 lbs. ASME
- 120 Gal/430 lbs./460 lbs. ASME
- 175 Gal/700 lbs. ASME only

Easy Installation & Service

- Control box is located at the front of unit for easy wiring during installation – Multiple knockout holes accommodate a variety of conduit sizes
- **Exclusive!** System Sentinal™ provides a diagnostic panel with LEDs that correspond to the number, location and status of each element
- **Exclusive!** Full-port, full-flow, brass drain valve for faster draining
- Minimum distance to combustibles is zero inches from jacket and 18 inches from access door
- All models approved for installation on combustible flooring

Plus

- Temperature and pressure relief valve at top of 175 gallon model and side on all other models
- Water connections: hot and cold water inlets are 2-1/2" NPT dielectric nipples on the 175 gallon model and 1-1/2" on all other models

Warranty

3-Year limited tank warranty, 1-year limited parts warranty

See Commercial Warranty Certificate for complete information.

Efficiency | These models have been tested according to DOE test procedures, and exceed the minimum energy factor requirements of current ASHRAE Standards (Part of the federally mandated Energy Policy Act (EPAct)). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction | Safety and Construction: These products are design certified by Underwriters Laboratories (UL) to meet UL standard 1453 and UL/NSF 005 as electric storage tank water heaters. All models are North Carolina and Massachusetts Code compliant. **Certified for a 150 PSI Maximum Working Pressure. (160 PSI maximum for ASME models)**



Rheem-Ruud Heavy Duty
50, 85, 120 & 175-Gallon
Capacities
ASME Construction Option
3-Year Limited Warranty
Electric



(With
Optional
Seal Kit)



INTEGRATED AIR & WATER

ELECTRICAL CHARACTERISTICS																
INPUT KW	NO. OF ELEMENTS	ELEM- MENT WAT- TAGE	FULL LOAD CURRENT IN AMPERES						SURFACE MOUNTED			IMMERSION THERMOSTATS				
			208V		240V		277V		480V		NO. OF T'STATS	NUMBER OF FUSES	NUMBER OF CONTACTORS	NUMBER OF FUSES	STAGED T'STATS	
			PHASE		PHASE		PHASE		PHASE						NO. OF T'STATS	KW STEP SIZE
			1	3	1	3	1	3	1	3						
3	1	3000	15	-	13	-	11	-	6	-	-	2	N/A	3		
6	3	2000	29	17	25	14	22	13	7	1	6	2	6	6		
9	3	3000	43	25	38	22	33	19	11	1	6	2	6	9		
12	3	4000	58	33	50	29	43	25	15	1	6	2	6	12		
15	3	5000	72	42	63	36	54	31	18	1	6	2	6	15		
18	3	6000	-	-	75	43	65	38	22	1	6	2	6	18		
18	6	3000	87	50	-	-	-	-	-	1	12	4	12	2	9	
24	6	4000	116	67	100	58	87	50	29	1	12	4	12	2	12	
27	6	4500	130	75	113	65	98	56	33	1	12	4	12	2	13.5	
30	6	5000	144	84	125	73	108	63	36	1	12	4	12	2	15	
36	6	6000	-	-	150	87	130	75	43	1	12	4	12	2	18	
36	9	4000	173	100	-	-	-	-	-	1	18	6	18	3	12	
45	9	5000	217	125	188	109	163	94	54	1	18	6	18	3	15	
54	9	6000	260	150	225	130	195	113	65	1	18	6	18	3	18	
60	12	5000	288	166	250q	144	217	125	72	-	-	-	24	4	15	
72	12	6000	-	200	-	172	260	150	87	-	-	-	24	4	18	
81	9	9000	-	-	-	-	-	169	98	-	-	-	18	3	27	
108*	12	9000	-	-	-	-	-	-	130	-	-	-	24	4	27	

Thermostat Staging – On all immersion thermostat models, 24 kW and above (18 kW for 208V), additional thermostats can be provided so that the maximum element input will not exceed 18 kW - 27 kW per step. Temperature differential between steps can be set as desired.

Note: Thermostat staging recommended on 81 and 108 kW models.

RECOVERY CAPACITIES Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises														
INPUT KW	EQUIVALENT BTU/HR.	UNITS	40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (45°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)	130°F (72°C)	140°F (78°C)	
3	10,236	GPH	31	25	20	17	15	14	12	11	10	9	9	
		LPH	117	95	76	64	57	53	45	42	38	34	34	
6	20,473	GPH	62	50	41	35	31	28	25	23	21	19	18	
		LPH	235	188	157	134	117	104	94	85	78	72	67	
9	30,709	GPH	93	74	62	53	47	41	37	34	31	29	27	
		LPH	352	282	235	201	176	157	141	128	117	108	101	
12	40,946	GPH	124	99	83	71	62	55	50	45	41	38	35	
		LPH	470	376	313	268	235	209	188	171	157	145	134	
15	51,183	GPH	155	124	103	89	78	69	62	56	52	48	44	
		LPH	587	470	391	335	294	261	235	213	196	181	168	
18	61,420	GPH	186	149	124	106	93	83	74	68	62	57	53	
		LPH	705	564	470	403	352	313	282	256	235	217	201	
24	81,893	GPH	248	199	165	142	124	110	99	90	83	76	71	
		LPH	939	751	626	537	470	417	376	342	313	289	268	
27	92,129	GPH	279	223	186	160	140	124	112	102	93	86	80	
		LPH	1057	845	705	604	528	470	423	384	352	325	302	
30	102,366	GPH	310	248	207	177	155	138	124	113	103	95	89	
		LPH	1174	939	783	671	587	522	470	427	391	361	335	
36	122,839	GPH	372	298	248	213	186	165	149	135	124	115	106	
		LPH	1409	1127	939	805	705	626	564	512	470	434	403	
45	153,549	GPH	465	372	310	266	233	207	186	169	155	143	133	
		LPH	1761	1409	1174	1006	881	783	705	640	587	542	503	
54	184,259	GPH	558	447	372	319	279	248	223	203	186	172	160	
		LPH	2114	1691	1409	1208	1057	939	845	769	705	650	604	
60	204,723	GPH	620	496	414	354	310	276	248	226	206	190	178	
		LPH	2347	1878	1567	1340	1173	1045	939	856	780	719	674	
72	245,678	GPH	744	596	296	426	372	330	298	270	248	230	212	
		LPH	2816	2256	1120	1615	1408	1249	1128	1022	939	871	803	
81	276,388	GPH	838	670	558	479	419	372	335	305	279	258	239	
		LPH	3174	2540	2116	1814	1587	1410	1270	1154	1058	977	907	
108*	368,518	GPH	1094	875	730	625	547	486	438	398	365	337	313	
		LPH	4141	3312	2763	2366	2071	1840	1658	1507	1382	1276	1185	

WATER TEMPERATURE RATINGS						
MODEL NUMBER	TANK CAPACITY		THERMOSTAT TYPE	MINIMUM DELIVERED TEMPERATURE	MAXIMUM DELIVERED TEMPERATURE	HIGH TEMPERATURE LIMIT
	GALLONS	LITERS				
ES50(A)	50	189	Surface	90°F	160°F	180°F
				32.2°C	71.1°C	82.2°C
ES85(A)	85	322	Surface	120°F	160°F	190°F
				48.8°C	71.1°C	87.8°C
ES120(A)	119.9	454	Surface	120°F	160°F	190°F
				48.8°C	71.1°C	87.8°C
E50(A)	50	189	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C
E85(A)	85	322	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C
E120(A)	119.9	454	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C
E175A	175	662	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C

MODEL NUMBERS Fast delivery from Rheem warehouses – no deposit – no shipping charges							
INPUT KW	SURFACE MOUNTED THERMOSTATS			IMMERSION THERMOSTATS			
	TANK CAPACITY IN GALLONS			TANK CAPACITY IN GALLONS			
	50	85	120	50	85	120	175
3	N/A	N/A	N/A	N/A	N/A	N/A	E175A-3-G
6	ES50-6-G	ES85-6-G	ES120-6-G	E50-6-G	E85-6-G	E120-6-G	E175A-6-G
9	ES50-9-G	ES85-9-G	ES120-9-G	E50-9-G	E85-9-G	E120-9-G	E175A-9-G
12	ES50-12-G	ES85-12-G	ES120-12-G	E50-12-G	E85-12-G	E120-12-G	E175A-12-G
15	ES50-15-G	ES85-15-G	ES120-15-G	E50-15-G	E85-15-G	E120-15-G	E175A-15-G
18	ES50-18-G	ES85-18-G	ES120-18-G	E50-18-G	E85-18-G	E120-18-G	E175A-18-G
24	ES50-24-G	ES85-24-G	ES120-24-G	E50-24-G	E85-24-G	E120-24-G	E175A-24-G
27	ES50-27-G	ES85-27-G	ES120-27-G	E50-27-G	E85-27-G	E120-27-G	E175A-27-G
30	ES50-30-G	ES85-30-G	ES120-30-G	E50-30-G	E85-30-G	E120-30-G	E175A-30-G
36	ES50-36-G	ES85-36-G	ES120-36-G	E50-36-G	E85-36-G	E120-36-G	E175A-36-G
45	ES50-45-G	ES85-45-G	ES120-45-G	E50-45-G	E85-45-G	E120-45-G	E175A-45-G
54	ES50-54-G	ES85-54-G	ES120-54-G	E50-54-G	E85-54-G	E120-54-G	E175A-54-G
60	N/A	N/A	N/A	N/A	N/A	N/A	E175A-60-G
72	N/A	N/A	N/A	N/A	N/A	N/A	E175A-72-G
81	N/A	N/A	N/A	N/A	E85A-81-GS	E120A-81-GS	E175A-81-G
108	N/A	N/A	N/A	N/A	N/A	N/A	E175A-108-G

Fuse type – “G” in the model number represents Class G fuses.

Thermostat staging – E models (Immersion thermostat) 24 kW and above (18 kW for 208V), may be ordered with additional thermostat(s) for staging. Add “S” after fuse type designation. Recommended on 81 and 108 kW models. Example: E175A-81-G becomes E175A-81-GS.

ASME Construction – E models (Immersion Thermostat) may be ordered with ASME certified construction. Add “A” after capacity designation. Example: E85-36-G becomes E85A-36-G.

UL Sanitation Compliance – all models except E175A are UL Sanitation (NSF5) compliant when equipped with the optional ring seal kits. E(S)50 – AS38355, E(S)85 – AS38356, E(S)120 – AS38357.

Solid State Low Water Cut-off – E models (Immersion Thermostat) may be ordered with probe type cut-off for field installation (AP8408).

Integral Fusing – all models have integral fusing for each element.

Anode Rods – two (2) magnesium anodes are installed in each tank to ensure long life and corrosion resistance.

Temperature and Pressure Relief Valve – CSA/ASME rated and factory installed.

Electrical Connections – pre-wired, accessible control box with multiple knock-outs on side in size selections to match the National Electric Code. Sizes range from 1/2" to 2-1/2". A grounding screw is provided for attaching an equipment grounding conductor.

Terminal Block – all models are equipped with U.L. listed terminal blocks for simplicity of installation. The terminal block will accept either copper or aluminum field connect wire.

120 Volt Control Circuit – all units are furnished with a fused 120 volt control circuit. All controls (thermostats, high temperature limit, etc.) are operated off of this basic 120 volt control circuit. This circuit is created by an internal multi-tap transformer of unique design that has four (4) taps for the primary voltages, 208, 240, 277 and 480.

Water Connections – hot outlet and cold inlet for the 50-120 gallon capacity models are 1-1/2" (175 gallon models are 2-1/2") NPT dielectric nipples which prevent excessive turbulence of heated water and results in optimum tank draw.

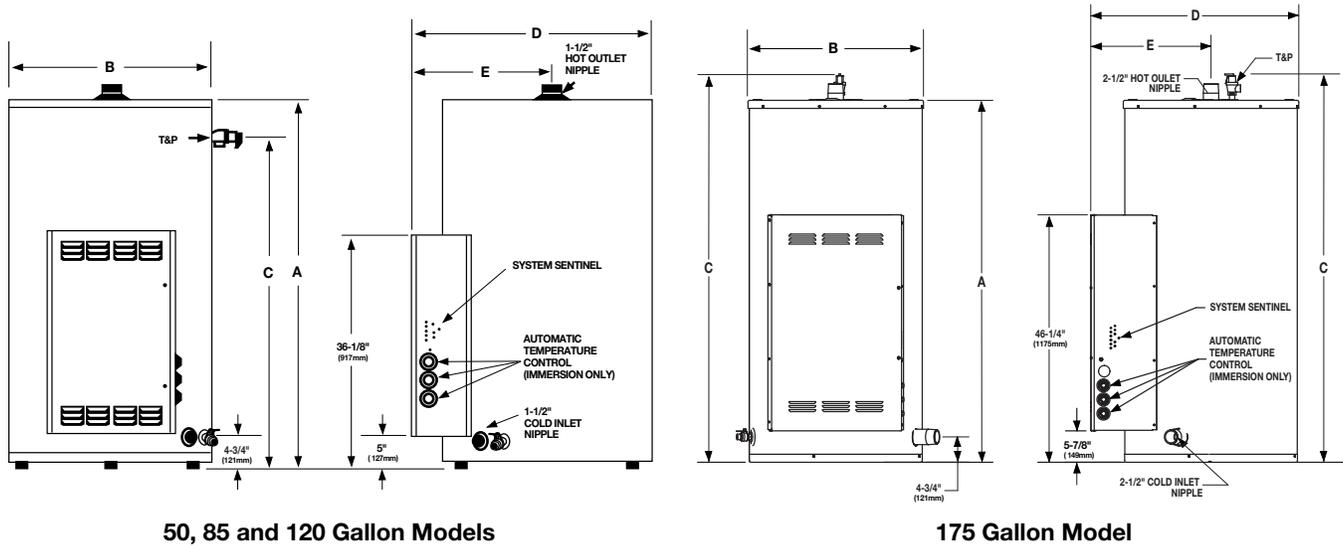


The new degree of comfort.™



Commercial Electric
Heavy Duty Water Heaters

DIMENSIONAL INFORMATION All dimensions shown in English and Metric								
MODEL NUMBER	UNITS	A	B	C	D	E	APPROX. SHIPPING WEIGHT (LBS.)	
							STD.	ASME
E(S)50(A)	inches	43-5/8	26-1/4	36-1/4	32	19	270 lbs.	320 lbs.
	mm	1108	667	920	813	483	122 kgs.	145 kgs.
E(S)85(A)	inches	57-11/16	28-1/4	49-1/2	34	20	350 lbs.	380 lbs.
	mm	1465	718	1258	864	508	159 kgs.	172 kgs.
E(S)120(A)	inches	67-5/8	30-1/4	58-3/4	36	21	430 lbs.	460 lbs.
	mm	1718	768	1493	914	533	185 kgs.	209 kgs.
E175A	inches	69-1/2	32-1/4	72-1/2	38-1/2	22-1/4	-	700 lbs.
	mm	1765	832	1842	826	565	-	318 kgs.



50, 85 and 120 Gallon Models

175 Gallon Model

Recommended Specifications (for trade reference only)

Water heater(s) shall be model _____, manufactured by Rheem-Ruud, having electrical input of _____ kW and a recovery rate of _____ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of _____ gallons. Water heater(s) shall have the UL seal of certification and be factory equipped with an CSA/ASME rated temperature and pressure relief valve. Tank(s) shall have a double coating of high temperature porcelain enamel and furnished with magnesium anode rods rigidly supported. Water heater(s) shall meet or exceed the standby loss requirements of ASHRAE. Tank(s) shall have a working pressure of 150 psi, and shall be completely assembled. Water heater(s) shall be approved-listed and constructed in accordance with UL Sanitation (NSF5). Water heater(s) shall be equipped with stainless steel "screw-in" type elements. Tank shall be insulated with thick polyurethane

foam insulation. Water heater(s) shall be constructed with a System Sentinel element diagnostic panel utilizing light emitting diodes. Each LED will correspond to the number and location of the heating elements and monitor their on-off function. Water heater(s) shall be provided with internal power circuit fusing, control circuit fusing, magnetic contactors, 120 volt control circuit transformer and surface mounted thermostat or immersion thermostat(s) with manual reset high limit control. 1-1/2" inlet and outlet water connections for 80 through 120 gallon models and 2-1/2" for 175 gallon units shall be provided. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

When ordering ASME construction, place (A) after the model number (for trade reference only)

Water heater(s) shall be constructed in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section IV Part HLW.

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

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