

PIPE SIZES

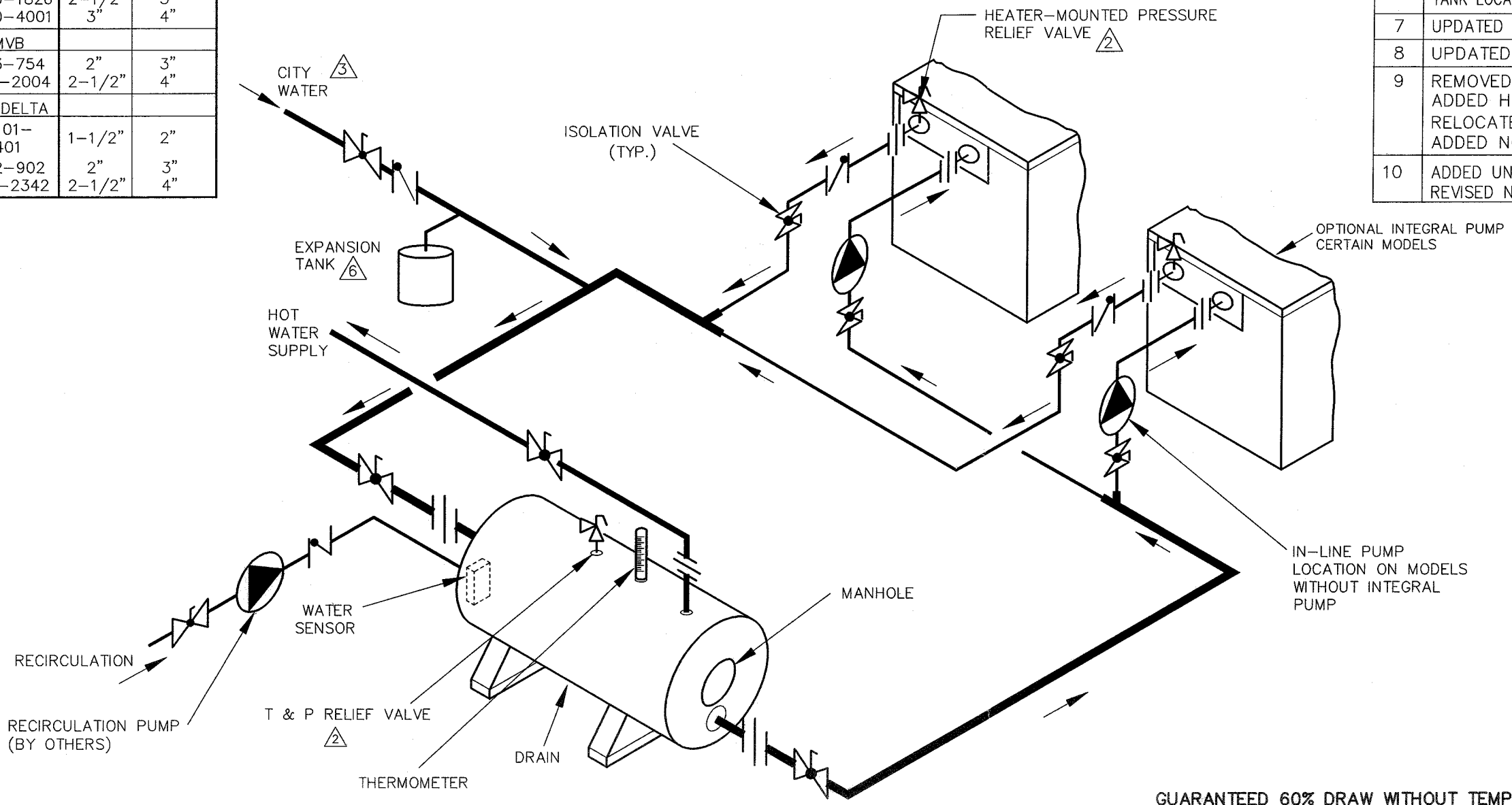
	1 UNIT	2 UNITS
RAYTHERM		
133	1-1/4"	1-1/2"
181-401	1-1/2"	2"
514-824	2"	3"
926-1826	2-1/2"	3"
2100-4001	3"	4"
MVB		
503-754	2"	3"
1003-2004	2-1/2"	4"
HI DELTA		
HD101-HD401	1-1/2"	2"
302-902	2"	3"
992-2342	2-1/2"	4"

THIS PIPING DIAGRAM IS RAYPAK'S RECOMMENDATION AND IS NOT INTENDED TO REPLACE AN ENGINEERED PIPING SYSTEM DESIGNED BY A PROFESSIONAL ENGINEER.

REVISIONS					
REV	DESCRIPTION	E.O.	BY	DATE	CHECK
4	UPDATED FORMAT, USAGE DATA.		DRB	6-15-04	DRB
5	ADDED RECOMMENDATION NOTE.		JMB	3-16-07	DRB
6	UPDATED BOILER SYMBOLS. REVISED EXP TANK LOCATION. ADDED MVB, REMOVED ADB USAGE.		RAN	10-28-08	DRB
7	UPDATED FORMAT, SYMBOLS. REVISED TITLE.		RAN	4-2-09	DRB
8	UPDATED PIPING.		RAN	7-24-09	DRB
9	REMOVED CATALOG #. ADDED HD101-HD401 USAGE. RELOCATED RECIRC LINE. ADDED NOTE 8.		KA	4-29-11	DRB
10	ADDED UNI-TEMP 60 NOTE. REVISED TITLE. REVISED NOTE 5.		KA	4-13-12	DRB

B

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GUARANTEED 60% DRAW WITHOUT TEMPERATURE DROP, USE RAYPAK BOILER, TANK, SIZING TABLE AND HOOK-UP DATA

KEY	
	T & P RELIEF VALVE
	PUMP
	UNION
	CHECK VALVE
	BALL VALVE
	THERMOMETER

- NOTES:
- PLUMB SWING CHECK VALVE IN GRAVITY-CLOSED POSITION.
 - PIPE ALL RELIEF VALVES TO DRAIN, OR AS LOCAL CODES REQUIRE.
 - LOCATE TEE AS CLOSE AS POSSIBLE TO TANK.
 - INSTALL COLD WATER BETWEEN HEATER OUTLET AND TANK.
 - SEE CHART "PIPE SIZES" FOR PIPE SIZES, CALCULATED AT MAXIMUM FLOW, NOT TO EXCEED 7.5 FT/SEC.
 - SIZING BASED ON HEATER AND TANK BEING PLACED FIVE FEET APART, IF DISTANCE IS GREATER, THE PUMP MUST BE SIZED TO ACCOMMODATE INCREASE IN PIPING-RELATED LOSSES.
 - PROVIDE FOR THERMAL EXPANSION OF HOT WATER IF A BACKFLOW PREVENTER, CHECK VALVE, WATER METER, OR PRESSURE REDUCING VALVE IS INSTALLED IN THE COLD WATER LINE.
 - IF HOT WATER SETPOINT EXCEEDS 160°F WITH MAX FLOW, SPECIFY "H" BOILERS INSTEAD OF "WH" WATER HEATERS.

ACAD: 8065.DWG
HEATERS SHOWN REPRESENT VARIOUS MODELS. BECAUSE INDIVIDUAL MODELS WILL VARY IN DESIGN AND SIZING, SEE EACH SPECIFIC HEATER TYPE FOR DETAILS.

8065	UNLESS OTHERWISE SPECIFIED: ALL UNITS ARE IN INCHES FRACTIONS ±1/32 ANGLES ±1° X. = ±.12 X.X = ±.06 X.XX = ±.03 X.XXX = ±.010 DRAFT _____ WALL _____ RAD: _____ CONCENTRICITIES .020 DIA. SQUARENESS .015 IN./IN. BREAK EDGES .015 MAX. SURFACE FINISH PER ASME Y14.36M-1996	APPROVED 	DATE 7-2-12	 OXNARD, CALIFORNIA
	CHECKED D BALDWIN	DATE 8-20-96	E.O. SPR	
	DRAWN D BALDWIN	DATE 8-20-96	SIZE B	THIS DRAWING SUBMITTED UNDER CONFIDENTIAL RELATIONSHIP, AS IT EMBODIES PROPRIETARY INFORMATION, WITH ALL RIGHTS RESERVED BY RAYPAK, INC.
TITLE: PIPING, UNI-TEMP 60: 2 HEATERS, 1 H TANK				
10	MATERIAL	SERIES/MODEL	DWG. NO.	REV
		WH	8065	10