PIPE SIZES

RAYTHERM

181-401
1-1/2" 2"
514-824
2-1/2" 3"
926-1826
3" 4"
2100-4401
3" 4"

MBV

903-2004
2-1/2" 4"
1003-2004
2-1/2" 4"
2503-4003
4" 6"

HD DELTA

593-554
2" 4"
1004-2004
2-1/2" 4"

HOT WATER SUPPLY

THERMOMETER

HEATER-MOUNTED PRESSURE
RELIEF VALVE

T & P RELIEF VALVE
WATER SENSOR

RECLIRCULATION PUMP
(RECLIRCULATION PUMP
(1YP)

OPTIONAL REAR-MTD PUMP
(CERTAIN MODELS)

CITY WATER

EXPANSION TANK

DRIVER

RECLIRCULATION PUMP
(RECLIRCULATION PUMP
(1YP)

THERMOMETER

RECLIRCULATION PUMP
(RECLIRCULATION PUMP
(1YP)

PUMP LOCATION
ON MODELS
WITHOUT REAR-MTD PUMP

NOTES:

1. PUMP SWING CHECK VALVE IN GRAVITY-CLOSED POSITION.
2. PIPE ALL RELIEF VALVES TO DRAIN, OR AS LOCAL CODES REQUIRE.
3. INSTALL COLD WATER BETWEEN HEATER OUTLET AND TANK.
4. SECR PIPE SIZES FOR PIPE SIZES, CALCULATED AT MAXIMUM FLOW.
5. STANDARD PUMP SIZING BASED ON 7.5 FT./SEC.
6. 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.
7. IF HOT WATER SETPOINT EXCEEDS 150 F, SPECIFY "H" BOILERS
   INSTEAD OF "WH" WATER HEATERS.

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

GUARANTEED 80% DRAW WITHOUT TEMPERATURE DROP.
USE RAYPAK BOILER, TANK, SIZING TABLE AND HOOK-UP DATA

THREE PIPE DIAMETERS REVISED NOTE
8. UPDATED FORMAT. PUMP FROM 'INTEGRAL' TO 'REAR-MTD' (2X).

RAYPAK PROPRIETARY AND CONFIDENTIAL INFORMATION

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

PUMP LOCATION
ON MODELS
WITHOUT REAR-MTD PUMP

HEATERS SHOWN
REPRESENT VARIOUS
MODELS. BECAUSE
INDIVIDUAL MODELS
WILL VARY IN DESIGN
AND SPECIFICATIONS,
SEE EACH
SPECIFIC HEATER
TYPE FOR DETAILS.

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