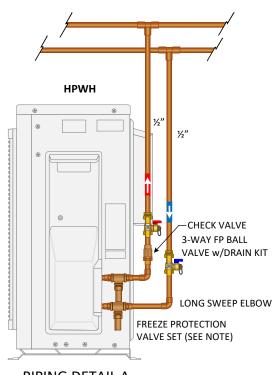
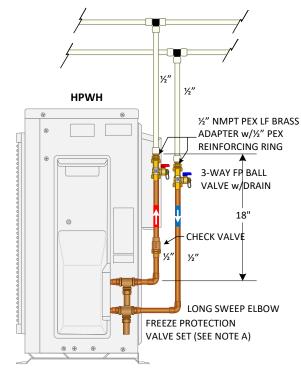
## **HEAT PUMP WATER HEATER PIPING DETAIL (HPWH)**



PIPING DETAIL A
WITH COPPER PIPE



PIPING DETAIL B
WITH PEX PIPE

## **NOTES**

**NOTE A:** TO PREVENT DAMAGE TO THE HPWH, WHERE TEMPERATURES ROUTINELY DROP BELOW FREEZING, WE RECOMMEND A FREEZE PROTECTION VALVE SET.

NOTE B: AREAS WHERE WATER HARDNESS IS GREATER THAN > 200 PPM, IT MAY BE NECESSARY TO PERIODICALLY SERVICE THE HPWH HEAT EXCHANGER. WE RECOMMEND INSTALLING A SERVICE VALVE FLUSH KIT TO THE HPWH. INSTRUCTIONS ON HOW TO DO THE PROCEDURE IS EXPLAINED IN OUR SANCO₂ TECHNICAL MANUAL.

NOTE C: INSULATE ALL PIPING PER CODE.

**NOTE D:** CHECK WITH LOCAL JURISDICTIONS FOR CODE REQUIREMENTS. SOME AREAS REQUIRE 18 INCHES OF COPPER PIPE AT THE HOT WATER HEATER OUTLET CONNECTION BEFORE TRANSISIONING TO PEX.

PROJECT:

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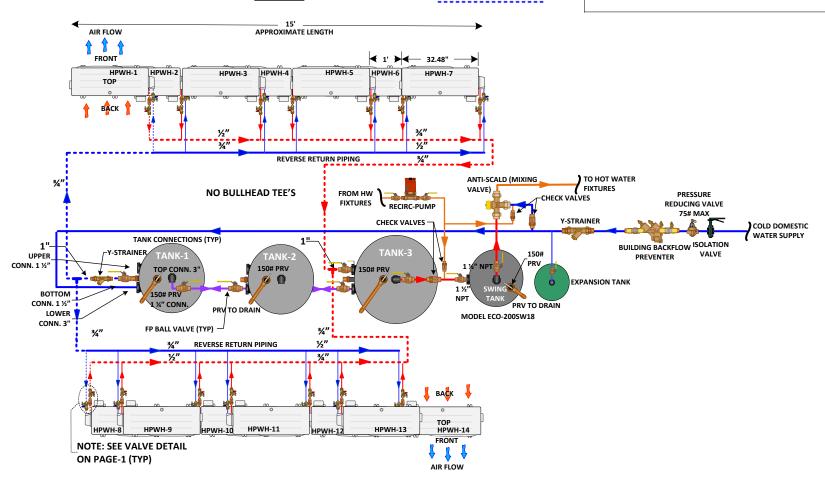
NOTE:

DASHED LINES REPRESENT CRITICAL
PIPING PATH. REFER TO ECO2
APPLICATION AN DESIGN MANUAL ON
HOW TO DETERMINE TOTAL
EQUIVALENT LENGTH (T.E.L.) DO NOT
EXCEED 66 FEET OF T.E.L.

**NOTE A:** TO PREVENT DAMAGE TO HWHP'S INTERNAL COMPONETS. WE MUST LIMIT THE INCOMING BUILDING WATER PRESSURE TO A MAXIMUM OF 75 PSI. THIS INCLUDES CALCULATING STATIC PRESSURE PLUS INCOMING WATER PRESSURE. THIS CAN BE CONTROLLED BY SELECTING A PROPERLY SIZED PRESSURE REDUCING VALVE.

NOTE B: MAXIMUM DISTANCE OF SEPARATION FROM THE FURTHEST HPWH TO THE FURTHEST STORAGE TANK IS 66 FEET. THE DESIGNER/ENGINEER MUST ACCOUNT FOR TOTAL EQUIVALENT LENGTH OF PIPE & FITTING PLUS STRAGHT PIPE ALONG THE CRITICAL PIPING PATH. CONSULT WITH ECOZ SYSTEMS TECHNICAL SUPPORT OR REFER TO OUR ECOZ APPLICATION AND DESIGN MANUAL.

## PLAN VIEW



MODEL ECO-455GLNST	
STORAGE TANK CONNECTIONS	
COLD WATER INLET	3" FEMALE NPT
HOT WATER OUTLET	3" MALE NPT
COLD WATER TO HP	1 ½" FEMALE NPT
HOT WATER FROM HP	1 ½" FEMALE NPT

	MODEL ECO-360GLNST	
	STORAGE TANK CONNECTIONS	
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	HOT WATER OUTLET	3" MALE NPT
	COLD WATER TO HP	1 ½" FEMALE NPT
	HOT WATER FROM HP	1 ½" FEMALE NPT
7		

l	HPWH MODEL's GS5-45HPC & GS5-45HPC-D	
l	HOT WATER OUTLET CONN. ½" NMPT	
ı	COLD WATER INLET CON. ½" NMPT	
ł	ALL PIPING & CONNECTIONS TO MAIN	
l	HEADERS CAN BE ½" COPPER OR PEX	

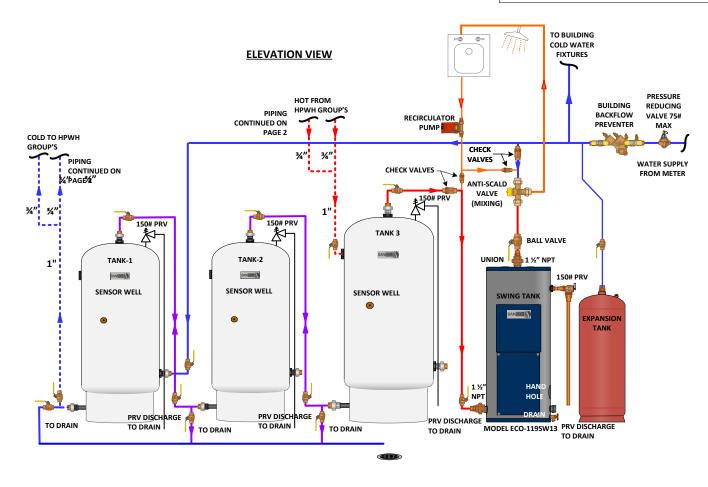
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