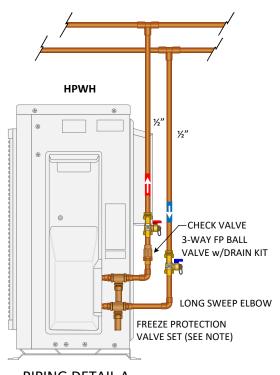
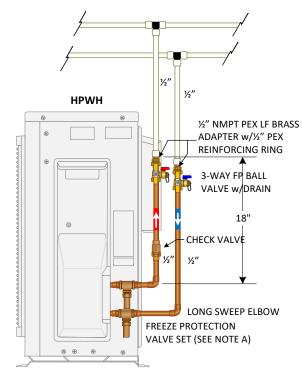
PROJECT:

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:

Date: 09/02/25 Time:8:11 PM REV-

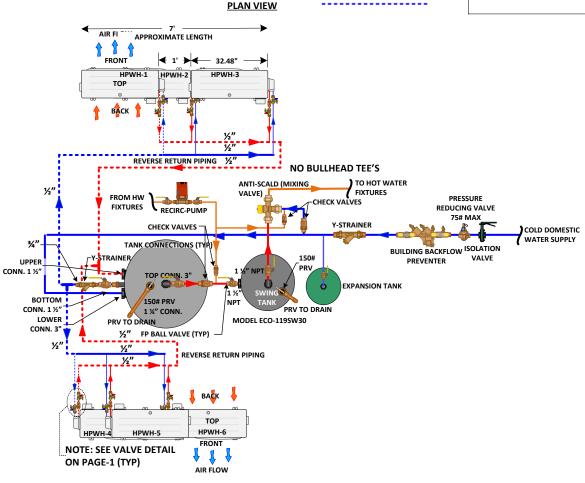
NOTE:

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.

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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 ECO2 SYSTEMS TECHNICAL SUPPORT OR REFER TO OUR ECO2 APPLICATION AND DESIGN MANUAL.



MODEL ECO-505GLNST		
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	

HPWH MODEL's GS5-45HPC & GS5-45HPC-D		
HOT WATER OUTLET CONN.	½" NMPT	
COLD WATER INLET CON.	½" NMPT	
ALL PIPING & CONNECTIONS TO MAIN		
HEADERS CAN BE 1/2" COPPER OR PEX		





TITLE: 6 HPWH STACKED OPPOSING (1) STORAGE TANK, SWING TANK FOR RECIRC 80

PROJECT:

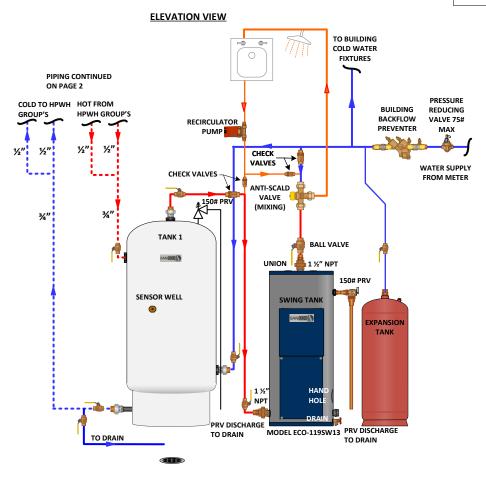
Date: 09/02/25 Time:8:11 PM REV-

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.

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MODEL ECO-505GLNST		
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	

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