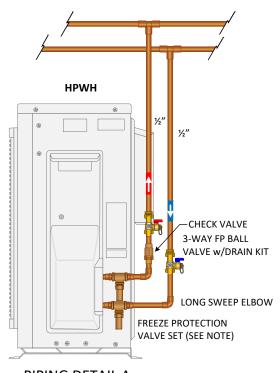
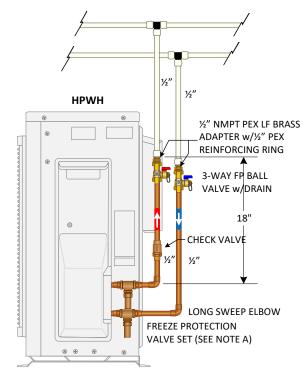
HEAT PUMP WATER HEATER PIPING DETAIL (HPWH)



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.



COLD WATER INLET

HOT WATER OUTLET

COLD WATER TO HP

p 1

HOT WATER FROM HP

3" FEMALE NPT

1 ½" FEMALE NPT

1 ½" FEMALE NPT

3" MALE NPT

COLD WATER INLET

HOT WATER OUTLET

COLD WATER TO HP

HOT WATER FROM HP



TITLE: 30 HPWH STACKED OPPOSING (5) STORAGE TANKS (4) 505, (1) 455 **SWING TANK FOR RECIRC 200**

PROJECT:

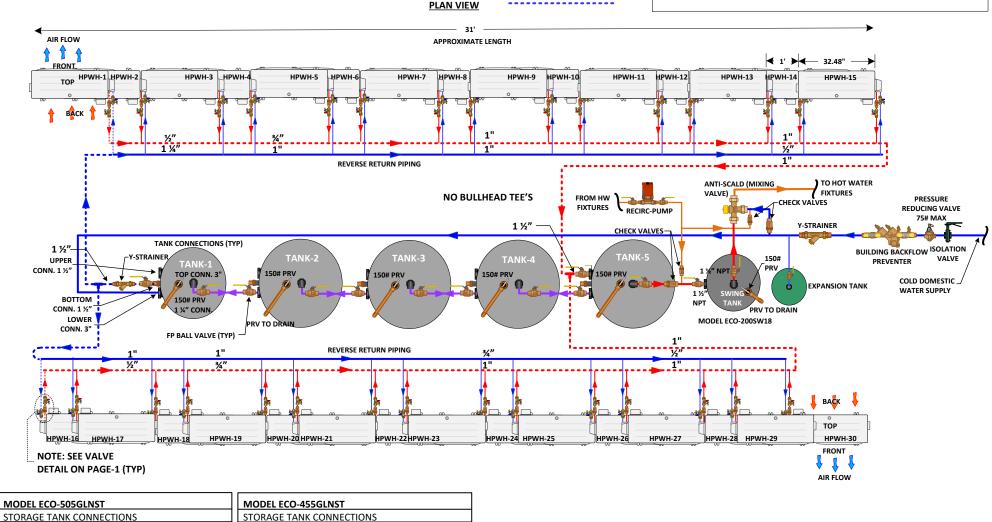
Date: 09/02/25 Time:9:31 PM REV-

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

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.



HOT WATER OUTLET CONN.

ALL PIPING & CONNECTIONS TO MAIN HEADERS CAN BE 1/2" COPPER OR PEX

COLD WATER INLET CON.

½" NMPT

3" FEMALE NPT

1 1/2" FEMALE NPT

1 1/2" FEMALE NPT

3" MALE NPT

TITLE: 30 HPWH STACKED OPPOSING (5) STORAGE TANKS (4) 505, (1) 455 SWING TANK FOR RECIRC 200

PROJECT:

Date: 09/02/25 Time:9:31 PM REV-

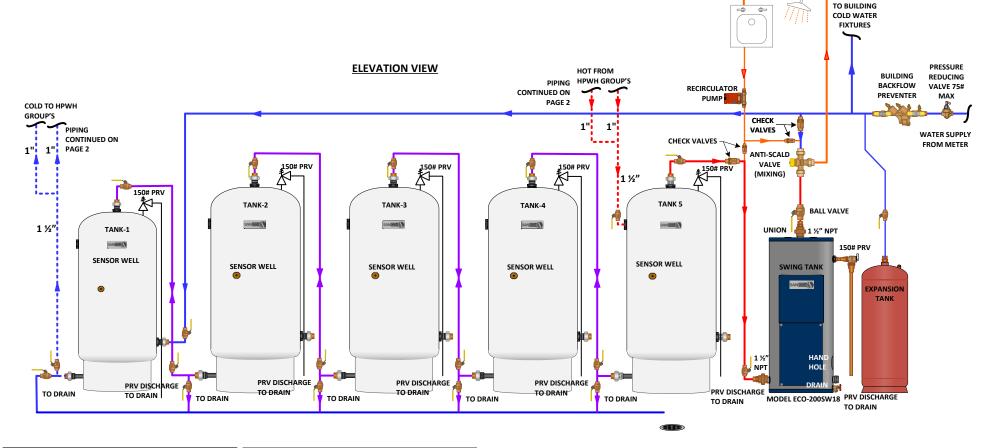
OJLUI.

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.



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	

p 1

╛	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	
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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	