INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

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No. 020801781 (1)

Model 8317CTFP AXION / 8317CTFP AXION ATEX (Item Number 10004782 / 10004784) Shower, Combination, Heat Traced

NOTE TO INSTALLER: Please leave this information with the Maintenance Department.

SHOULD YOU EXPERIENCE DIFFICULTY WITH THE INSTALLATION OF THIS MODEL PLEASE CALL:

CUSTOMER SUPPORT: +41 (0) 34 420 60 00

LOCATION OF UNIT: The Model 8317CTFP AXION / 8317CTFP AXION ATEX Emergency Shower should be installed in close proximity to potential accident areas. It should be clearly identified, free from obstructions and easy to access.

SUPPLY LINE: The minimum recommended line size is 1-1/4” BSP with 2-6 Bar (30-90 psi) flowing pressure. Where sediment or mineral content is a problem, an inlet filter is recommended.

PLUMBING CONNECTIONS: The inlet supply is female 1-1/4” BSP.

RECOMMENDED TOOLS: Pipe joint sealant, screwdriver, pipe wrench, three (3) rust resistant anchors (M8 or 3/8" diameter), silicone caulking, level.

LOCATION OF UNIT: The Model 8317CTFP AXION / 8317CTFP AXION ATEX Emergency Shower should be installed in close proximity to potential accident areas. It should be clearly identified, free from obstructions and easy to access. 8317CTFP AXION ATEX is ATEX Class IEC: Ex IIC T6
ATEX: EX II 2 G T6.

ELECTRICAL SUPPLY: Electrical power required for standard heat traced unit is **230 VAC**. Average power consumption at 10º C (50º F) ambient temperature is 60 watts. Maximum is 150 watts. Connection at input junction box is M20 cable gland (Ø6-12mm cable range).
DURING POTENTIALLY FREEZING PERIODS; ENSURE THAT UNIT IS CONNECTED TO A CONTINUOUS POWER SUPPLY.

WATER SUPPLY: The minimum recommended line is 1-1/4" with 2-6 Bar (30-90 psi) flowing pressure. An inlet filter is recommended where sediment or mineral content is a problem. Inlet connection is 1-1/4" BSP. The eyewash station/body shower must be capable of delivering 106 liters per minute (28 GPM) of water for at least 15 minutes. **WATER SUPPLY MUST BE FREEZE PROTECTED**.

WATER QUALITY: Model 8317CTFP AXION / 8317CTFP AXION ATEX Emergency Shower requires a supply of drinking water conforming to European standards or their equivalents in other countries.

MAINTENANCE: In freezing conditions, wipe eye/face wash head and dust cover dry after each use to prevent unwanted ice buildup. SP158B Freeze Protection Valve is a field serviceable item Refer to SP158B Manual for more information.

WARNING: Fire and shock hazards: Must use a ground fault electrical protection device (30mA GFEPD) for Heat Trace. Electrical fault currents may be insufficient to trip a conventional circuit breaker.

INSTALLATION PROCEDURE

Refer to Installation Drawings for clarification. Use pipe joint sealant on all connections.

STEP 1: Prepare the emergency shower foundation locating three M8 (3/8") anchors (not supplied), for shower floor flange. Note flange hole positions so shower head eye/face wash and supply inlet will be in proper direction. Raise shower into position and shim under floor flange if required to maintain upright vertical.

STEP 2: Connect water supply as follows: **This model is designed for either a top water supply or a bottom water supply.** This model is shipped with a complete 1-1/4" BSP union connected at the top supply inlet. At the bottom supply inlet there is only half of a 1-1/4" BSP union. The other half of the union is connected to a freeze protection bleed valve located inside the shipping carton. Remove outer half of the 1-1/4" union from the top water inlet. Assemble the half union onto 1-1/4" BSP male thread of either the top or bottom water supply.

Complete supply connection at the desired 1-1/4" union. Attach the other half union with the freeze valve attached to the other unused union and complete the connection. Refer to SP158B Freeze Protection Valve installation instructions on Sheet 2 of installation drawing.

Turn on water supply and check for leaks, then operation of eye/face wash and shower together. If flow of either is inadequate check troubleshooting chart. Heat trace (supplied), insulate and weather seal inlet union and above ground supply (by others). If flow switch is used, heat-trace and insulate 150mm (6") above flow switch tee.

INSTALLATION PROCEDURE….

STEP 3: Connect **230 VAC** supply line to junction box using M20 cable gland inlet. Connect supply line to terminal block as follows:

BROWN = L_1 (230 VAC), BLUE = Neutral (N), GREEN/YELLOW = Ground / Earth (PE).

STEP 4: Install the shower/eyewash sign in a visible location near the unit.

OPERATING INSTRUCTIONS

Power to the Model 8317CTFP AXION / 8317CTFP AXION ATEX may be left on year round. The non-adjustable thermostat will shut off heat cable when air temperature rises to 11º C (52º F). Heat cycle will repeat when air temperature drops below 4º C (39º F).
Switching tolerance: ± 3K. Periodic check of water temperature from shower or eye/face wash will confirm normal operating temperatures between 4º- 35º C (39º - 95º F).

This unit is heated by low power heat trace cable suitable for freeze protection but not suitable for providing a warm shower from a cold-water supply. Moments after activating shower, water temperature will drop to supply temperature.

The required water temperature should be determined by the user. The accepted ideal range is 15 - 35 ºC / 60 - 95 ºF (but please ensure conformity with local regulations). For the protection of the user, we strongly recommend that some system be installed to provide tempered (warm) water to this shower and eye/face wash. Heat trace cable used on this shower heats slowly and may take 90 minutes to complete a full heat cycle.

No drain connection at bleed valve(s) is normally required. Valve(s) will remain closed unless power outage, high ambient temperature (with optional scald protection valve, only) or malfunction occurs (see Troubleshooting).

NOTE: IF GROUND WATER IS BELOW 3.3º C (38º F) SIMPLY TESTING SHOWER MIGHT CAUSE BLEED VALVE TO OPEN. ONCE OPENED, COLD GROUND WATER WILL KEEP BLEED VALVE OPEN. SEE TROUBLESHOOTING GUIDE FOR PROCEDURE TO CLOSE BLEED VALVE ONCE OPENED.

Periodic tests for proper function of shower and eye/face wash should be performed and recorded on inspection tags attached to unit or in separate maintenance logbook (preferred).

IMPORTANT SAFETY NOTICE

ELECTRICAL CODE REQUIRES GROUND-FAULT EQUIPMENT PROTECTION ON EACH HEATING CABLE BRANCH CIRCUIT. TO REDUCE THE RISK OF FIRE CAUSED BY DAMAGE OR IMPROPER INSTALLATION, CIRCUIT BREAKERS WITH A ‘C’ CHARACTERSICTIC AND 30mA TRIP LEVEL, SHOULD BE USED. PLEASE SUBSTITUTE THESE BREAKERS WHEREVER REFERENCE IS MADE TO CONVENTIONAL BREAKERS IN THIS DOCUMENT. ALTERNATIVE DESIGNS PROVIDING COMPARABLE LEVELS OF GROUND-FAULT PROTECTION MAY ALSO BE ACCEPTABLE.

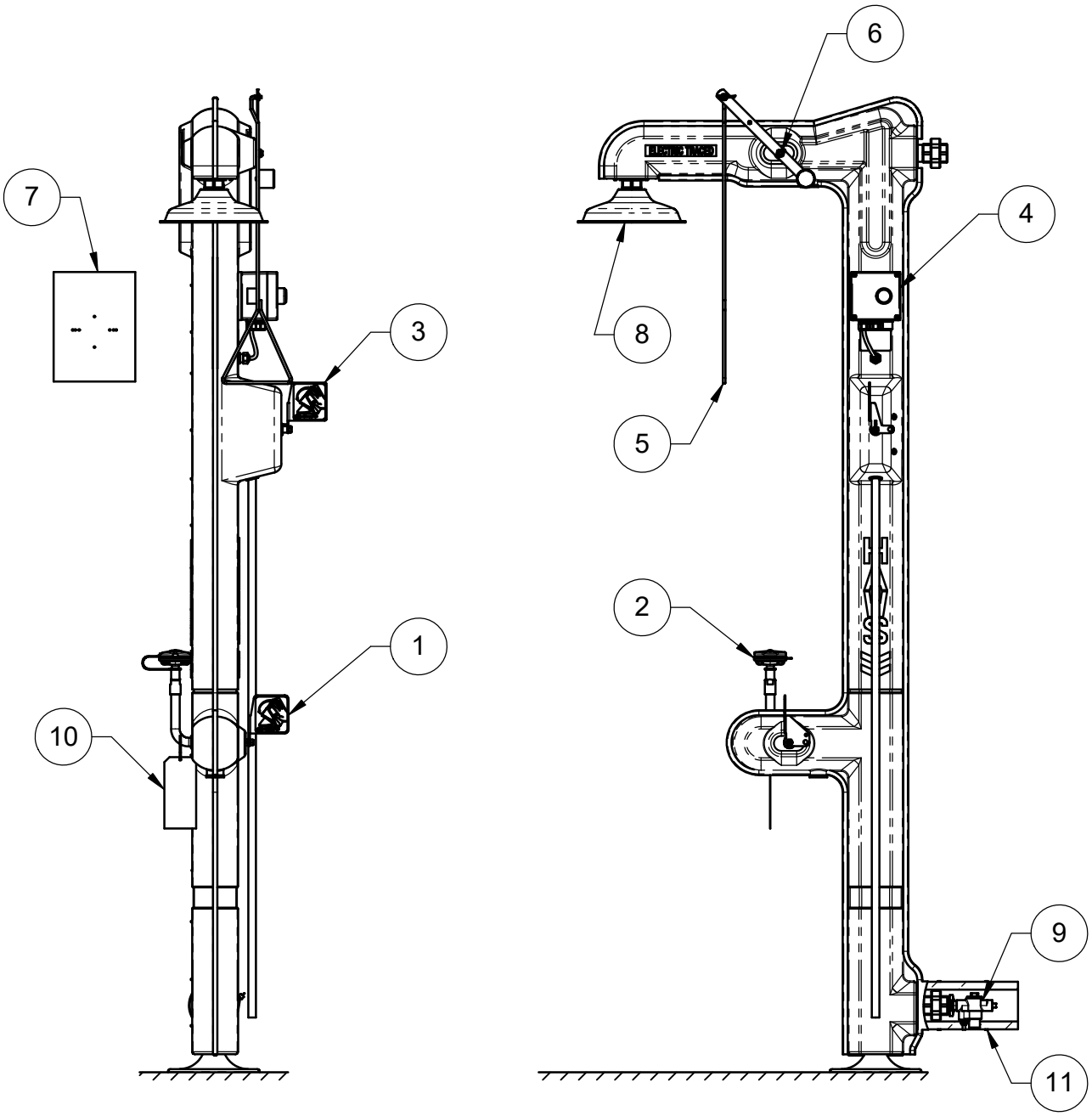
TROUBLESHOOTING

PROBLEM	REPAIR CHECKLIST
1. Continuous flow from freeze bleed valve.	1. If bleed water temperature is above 7º C (45º F), service bleed valve. For specific instruction regarding removal, maintenance and re-installment of this model, contact Haws Technical Support at +41 (0) 34 420 60 00. If below 7º C (45º F), verify electric power to unit, then check thermostat. See item 3 below. Once opened, cold supply water, 7º C (45º F), will keep freeze bleed valve open. To shut bleed valve, it must be warmed above 7º C (45º F).
2. Continuous flow from scald bleed valve. (Optional valve).	2. If bleed water temperature is below 32º C (90º F), service bleed valve. For specific instruction regarding removal, maintenance and re-installment of this model, contact Haws Technical Support at +41 (0) 34 420 60 00. Above 38º C (100º F) may be due to direct sunlight or excess ambient temperature.
3. Shower and eye/face wash water temperature below 4º C (40º F) or above 38º C (100º F).	3. Shut off electric power. All electric connections are made inside external junction box. Disconnect thermostat leads from terminal block and wire nut in junction box. Check thermostat continuity: open circuit above 11º C (52º F), closed below 4º C (39º F). Thermostat is not adjustable and should be replaced if either of the continuity checks are incorrect. If unit is subject to freezing temperatures, temporarily disconnect thermostat and reconnect wiring to bypass thermostat and protect shower from freezing until replacement thermostat can be installed. Self-regulating heat trace cable will not overheat shower until air temperature rises above 30º C (85º F).
4. Insufficient flow at shower and eye/face wash.	4. Verify minimum 2 Bar (30 psi), 106 l/min (28 GPM) available supply. Check for blockage in lines.
5. Insufficient flow at eye/face wash only.	5. Probable clogging of flow control due to inadequate line flushing. Turn water supply off. Unscrew eye/face wash heads and adapter to gain access and clean flow control.
6. Insufficient water flow at the showerhead, however, eye/face wash is sufficient.	6. Probable clogging of flow control inside showerhead. Unscrew showerhead and clean rubber flow control.
7. Shower and eye/face wash valve stem leak.	7. Remove shower arm or eye/face wash push flag. Peel black trim strip from shower and separate housing halves. Peel back or remove insulation to gain access to valve. Remove “U” bracket from valve stem and tighten valve stem hex packing nut to stop leak. Reassemble bracket, insulation, shower housing and valve arm.
8. Shower and eye/face wash valve leaks. (Does not shut off completely).	8. Disconnect power to unit. Disassemble as in item 6. Check valve arm stop tang for damage. Repair or replace valve assembly. Heat cable is looped around valve and should be pulled away from valve. Remove valve. Reverse above steps to reassemble.

For more information about Haws products, see our website: www.haws.ch

PARTS BREAKDOWN

ITEM	DESCRIPTION	MODEL NO.	ITEM NO.
1	VALVE ASSEMBLY	SP237	10006176
2	AXION EYE/FACE WASH HEAD	SP65CTFP	10006251
3	VALVE ASSEMBLY	SP239	10006179
4	THERMOSTAT THERMOSTAT EX	--	10010626 10000147
5	PULL ROD	SP200	10002978
6	VALVE ASSEMBLY	SP262	10006197
7	SHOWER SIGN	SP178	10003218
8	AXION SHOWER HEAD	SP829	10006266
9	VALVE-FREEZE BLEED	SP158B	10006128
10	TEST TAG	SP170	10006134
11	FOAM FOR FREEZE VALVE	--	10001723



WHEN ORDERING PARTS, PLEASE SPECIFY ITEM NUMBER

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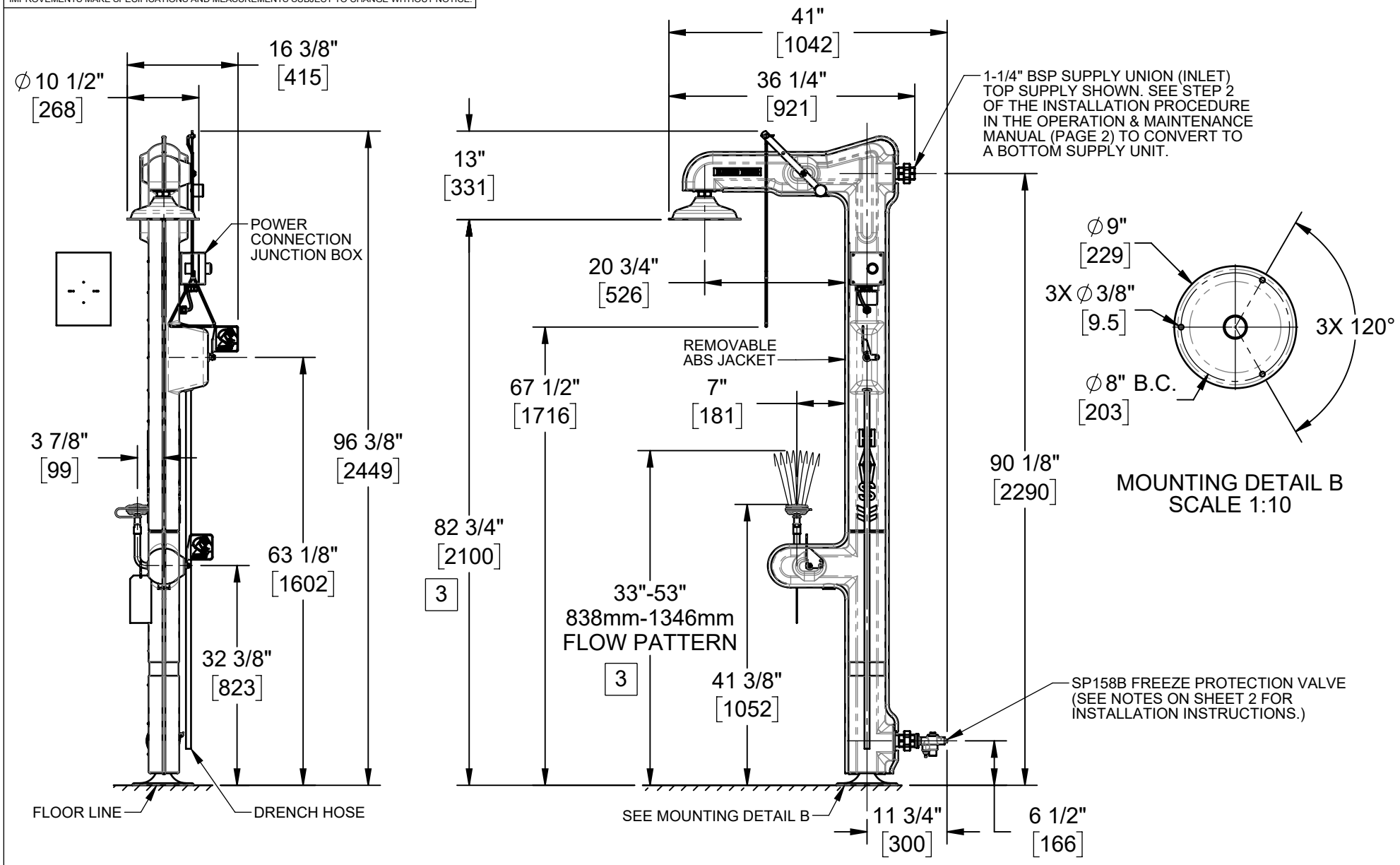
ECN: 0002	REV. ECN: 0002	BY: DN	MODEL(S) 8317CTFP AXION (10004782) 8317CTFP AXION ATEX (10004784)	PART NUMBER 02081781
DRAWN: DN	DATE: 1/27/2025	CHK'D: IR		REVISION 1
APPROVED: DN	DATE: 3/10/2025		SCALE: 1:16 DRAWING TYPE: PARTS BREAKDOWN SIZE: A	SHEET 1 OF 1



NOTES:

1. WHEN INSTALLING THIS UNIT, LOCAL CODES SHOULD BE ADHERED TO FOR INSTALLATION DIMENSIONS (LOCATIONS), WASTE AND SUPPLY REQUIREMENTS OTHER THAN SHOWN
2. UNIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCEPTABLE PLUMBING PRACTICES.
3. UNIT SHALL BE INSTALLED SO THE EYE/FACE WASH AND SHOWER HEAD DISTANCE ABOVE THE SURFACE ON WHICH THE USER STANDS, AND DISTANCE FROM ANY OBSTRUCTION MEETS THE REQUIREMENT OF THE APPLIED STANDARD (ANSI Z358.1 OR EN 15154-1 / 2 / 5 AS APPLICABLE).
4. DIMENSIONS MAY VARY BY ± 1/2 INCH [13mm].
5. DIMENSIONS IN BRACKETS, IN DRAWING SPACE, ARE METRIC [mm]

(NOTES CONTINUED ON SHEET 2)

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ECN: 0002	REV. ECN:	BY: DCN	MODEL(S) 8317CTFP AXION (10004782) 8317CTFP AXION ATEX (10004784)		PART NUMBER 02081781.D
DRAWN: DN	DATE: 1/27/2025	CHK'D.: IR			REVISION 1
APPROVED: DN	DATE: 3/10/2025		SCALE: 1:20	DRAWING TYPE: INSTALLATION	SIZE: A	SHEET 1 OF 3

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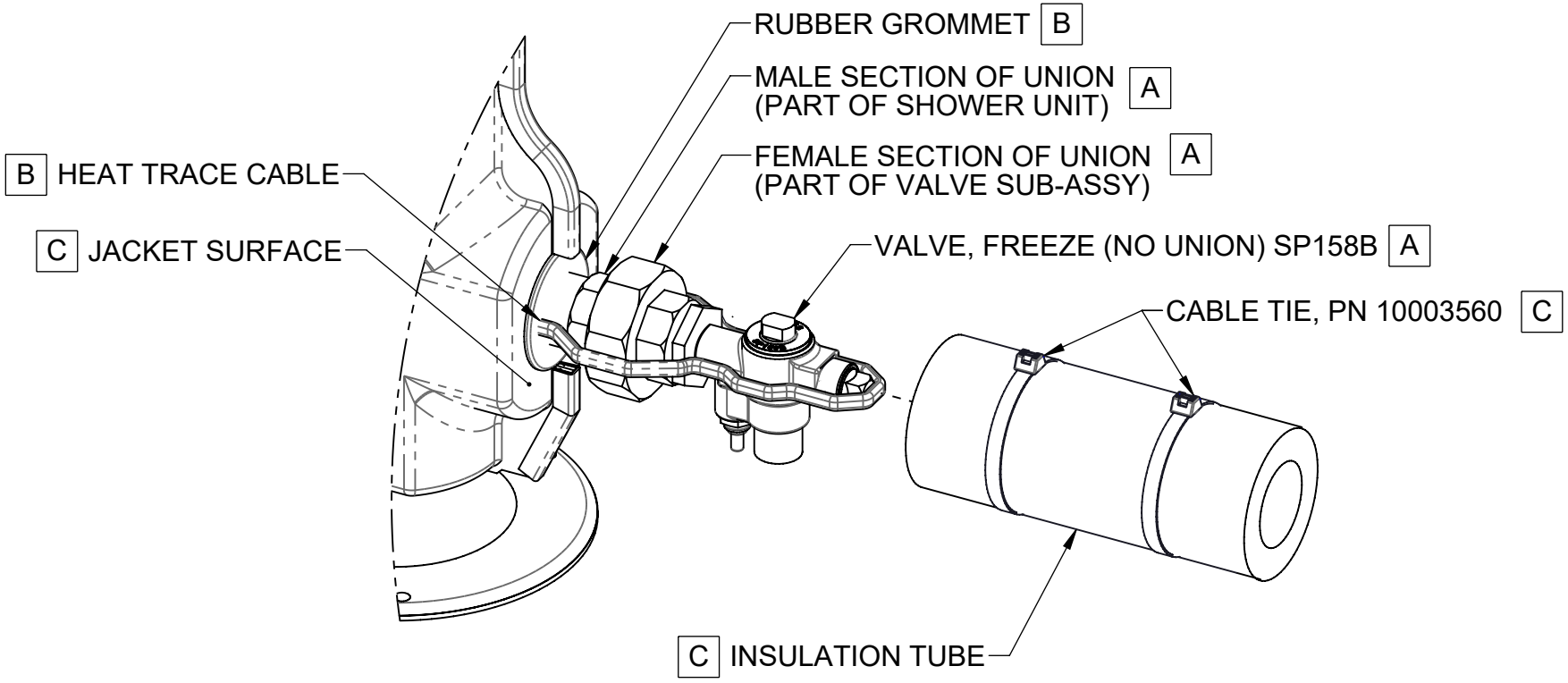
NOTES: (CONTINUED FROM SHEET 1)

6. FREEZE PROTECTION VALVE INSTALLATION INSTRUCTIONS:

[A] INSTALL VALVE SUB-ASSEMBLY ONTO MALE SECTION OF UNION AND TIGHTEN WATER-TIGHT.

[B] FORM HEAT TRACE CABLE AROUND VALVE AND PLUG, AS SHOWN, ENSURING THAT HEAT TRACE CABLE IS PRESSED FIRMLY AGAINST SIDES OF VALVE (PUSH ANY LOOSE HEAT TRACE CABLE BACK INSIDE JACKET THROUGH RUBBER GROMMET).

[C] SLIDE INSULATION TUBE OVER FREEZE VALVE AND UNION, UP AGAINST JACKET SURFACE. APPLY 2X CABLE TIES, AS SHOWN, TO SECURE INSULATION TUBE. TRIM EXCESS CABLE TIE STRAPPING.



SP158B VALVE SHOWN CONNECTED TO BOTTOM UNION FOR REFERENCE ONLY. VALVE CAN BE INSTALLED AT TOP OR BOTTOM.

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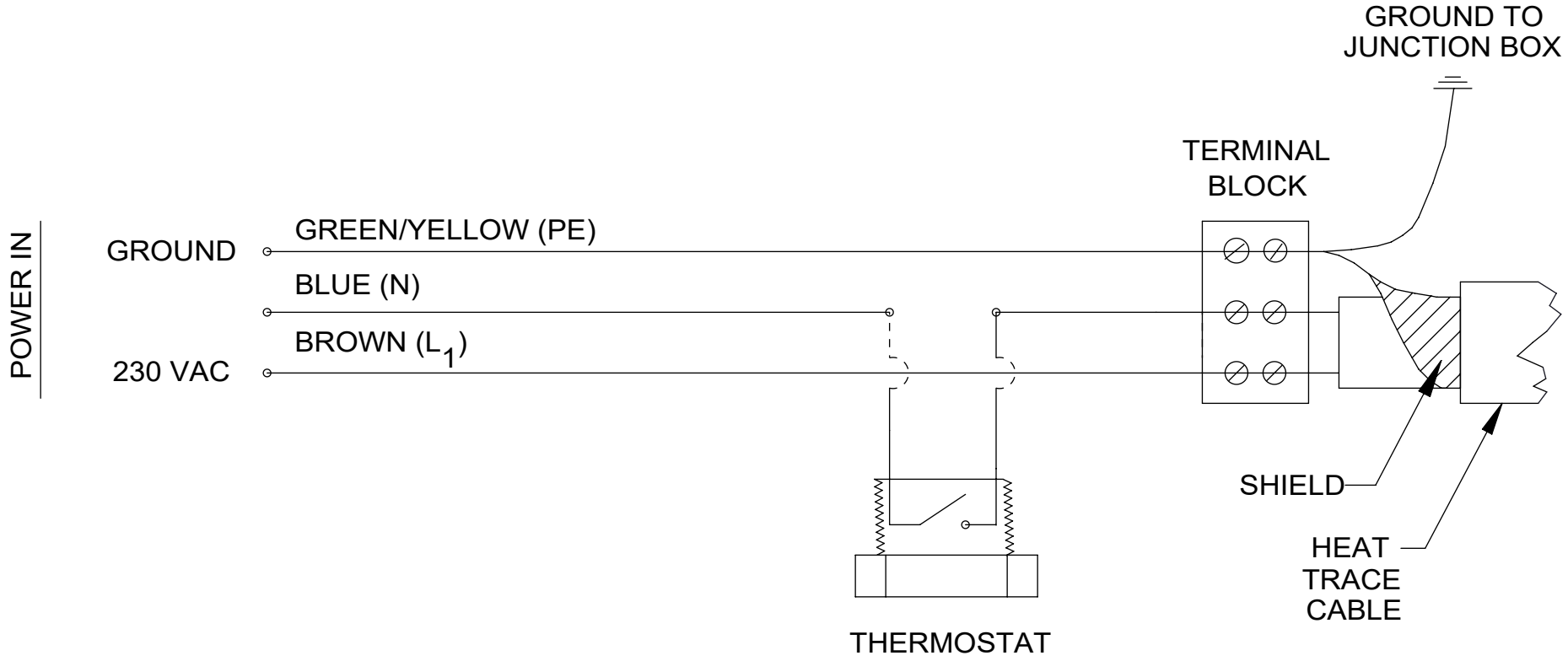

ELECTRICAL SCHEMATIC

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