

# model 8780

Indoor Emergency Water Tempering Skid

## **FEATURES & BENEFITS**

## QUALITY CONTROL

Fully assembled and tested for quick placement and hook-up.

#### STANDARDIZED PLATFORM

Offering a standardized line of water tempering solutions providing shorter lead times, advanced compliance, cost efficiencies, and customizable configuration options.

#### **BLENDING SYSTEM**

Safe, fully engineered thermostatic provides 78 gallons per minute with anti-scald protection and full-flow cold water bypass to provide tempered water in adverse situations.

## **TANK SYSTEM OPTIONS**

Tanks available: 119 Gal non-ASME (450 L), 120 Gal (454 L) ASME, or 200 Gal (757 L) ASME that will Store enough hot water to provide a single 15 minute shower and eye/face wash use. Standard is a 318 Gal (1203 L) ASME or an available 400 Gal (1514 L) ASME that stores enough hot water to provide two 15 minute shower and eye/face wash uses before tank recovery is required.

## **EXPANDABLE/FLEXIBLE CAPABILITIES**

System can be designed to a number of variations including the hot water supply, the electrical type, the blending capabilities. and pump options including VFD controlled pump.

## **ELECTRICAL SYSTEM OPTIONS**

Haws provides systems at various voltage options, including 480V 3ph, 600V 3ph, 208V 1ph, 208V 3ph, 240V 1ph, and 240V 3ph. Electrical area rating option includes Type 4 Ordinary Location.

Optional equipment to accommodate virtually any specific need includes:

- Stainless steel valves and/or piping
- Temperature control packages including 4 or 10 kW immersion heaters
- Alarm package
- Recirculation pump with VFD, or booster / recirculation pump with VFD

For more information, visit www.hawsco.com or call (888) 640-4297.

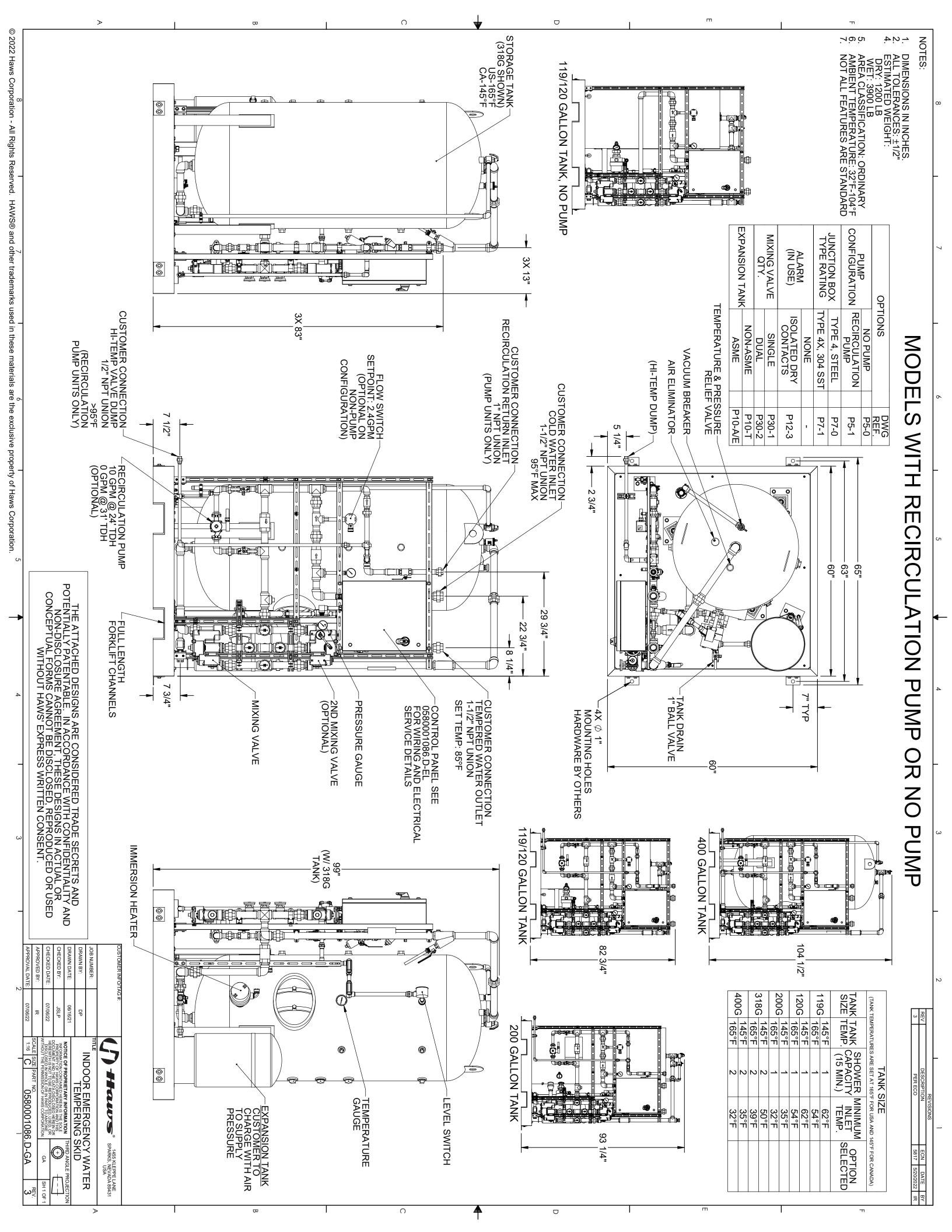


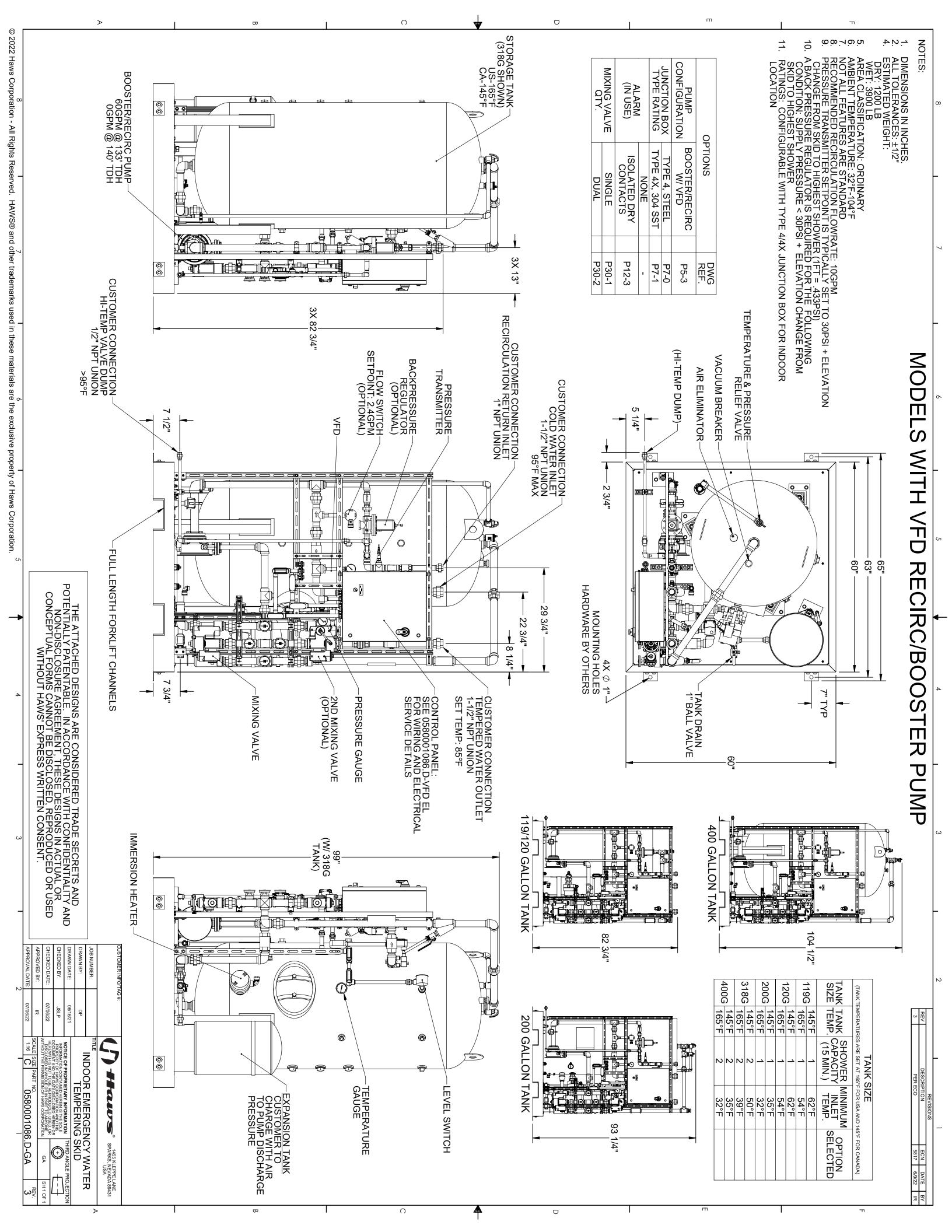
# **SPECIFICATIONS**

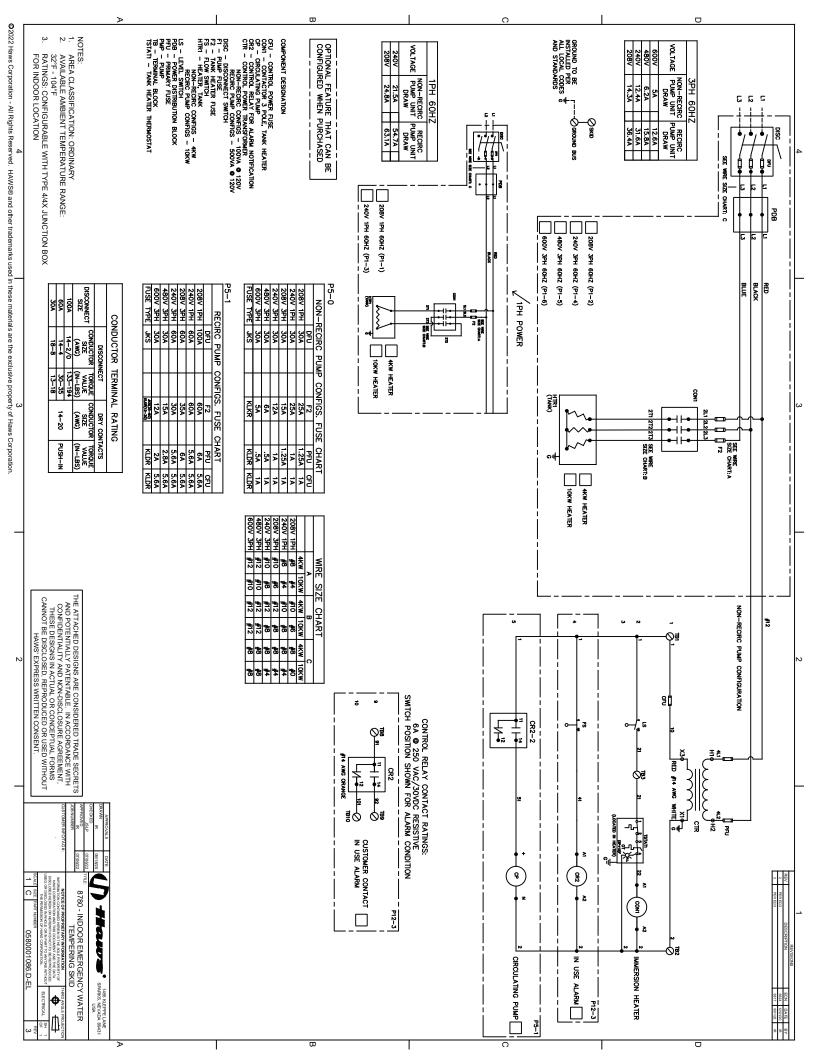
Model 8780 skid-mounted tempering system shall include an aluminum 5' x 5' (1.5 x 1.5 m) frame with a composite equipment platform, with high visibility green chemical and UV resistant polyester based powder coating. This multiple shower and eyewash feeder provides an operating temperature range of 35° to 120° F (45.5° to 48.9° C), and is designed to operate with a number of tempering and electrical options. The tempered water blending system includes a 318 gallon ASME hot water tank, galvanized piping, and will incorporate fail-safe features like anti-scald protection and full flow cold water bypass. The electrical system is supplied with a NEMA4 enclosure, 480V three phase inlet, and the can be easily adapted to other voltages upon request. 1-1/2" tepid and cold water inlets.

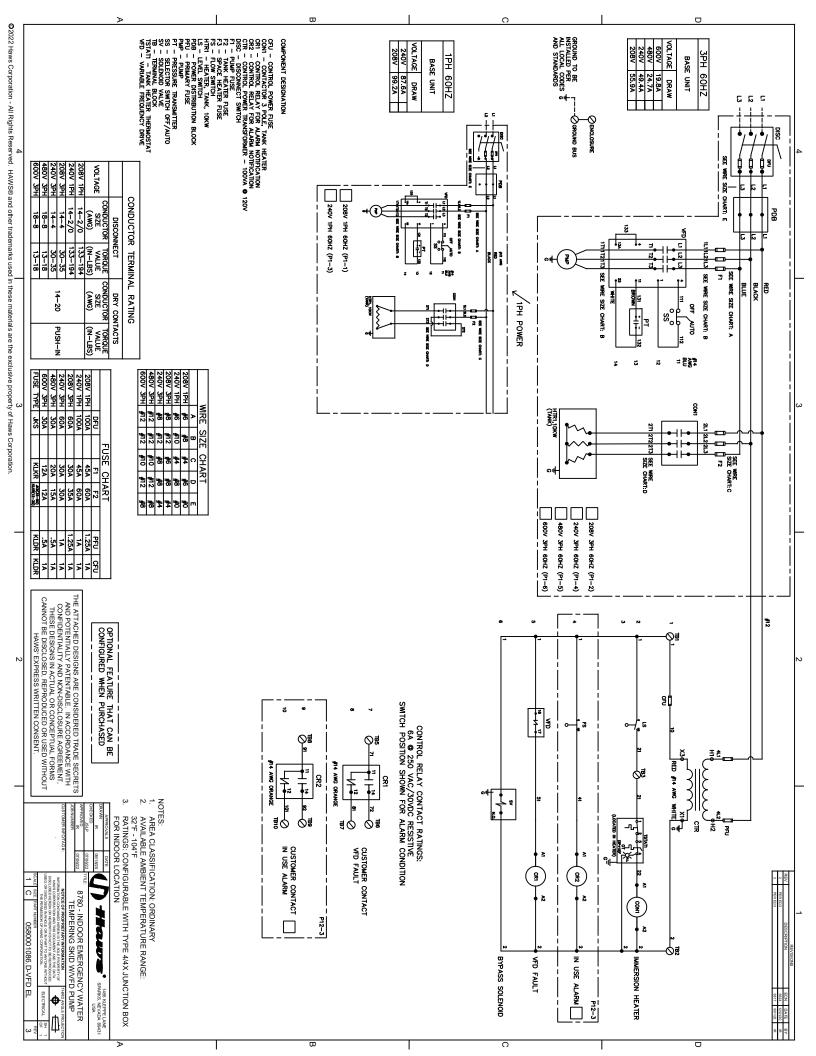
## **APPLICATIONS**

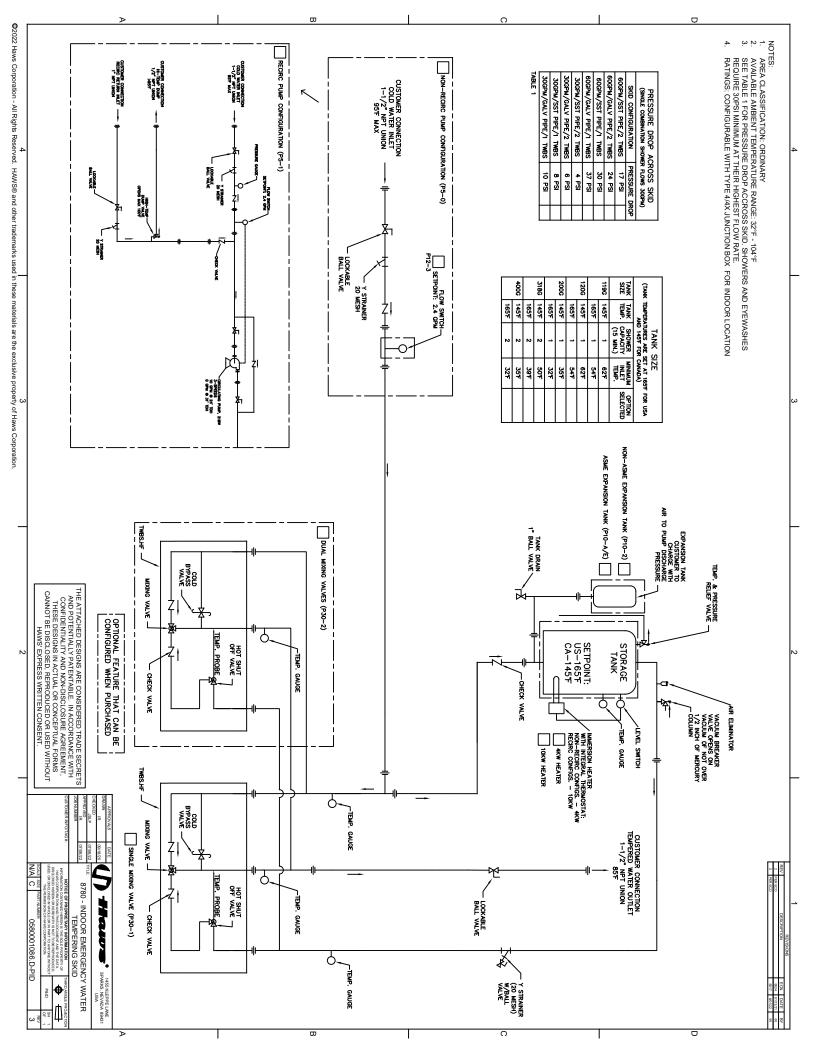
Perfect for indoor facilities that may encounter dangerous chemical hazards and need a complete tempering system, and/or need a feeder to other remote booth substations or other drench systems and/or eyewash stations.

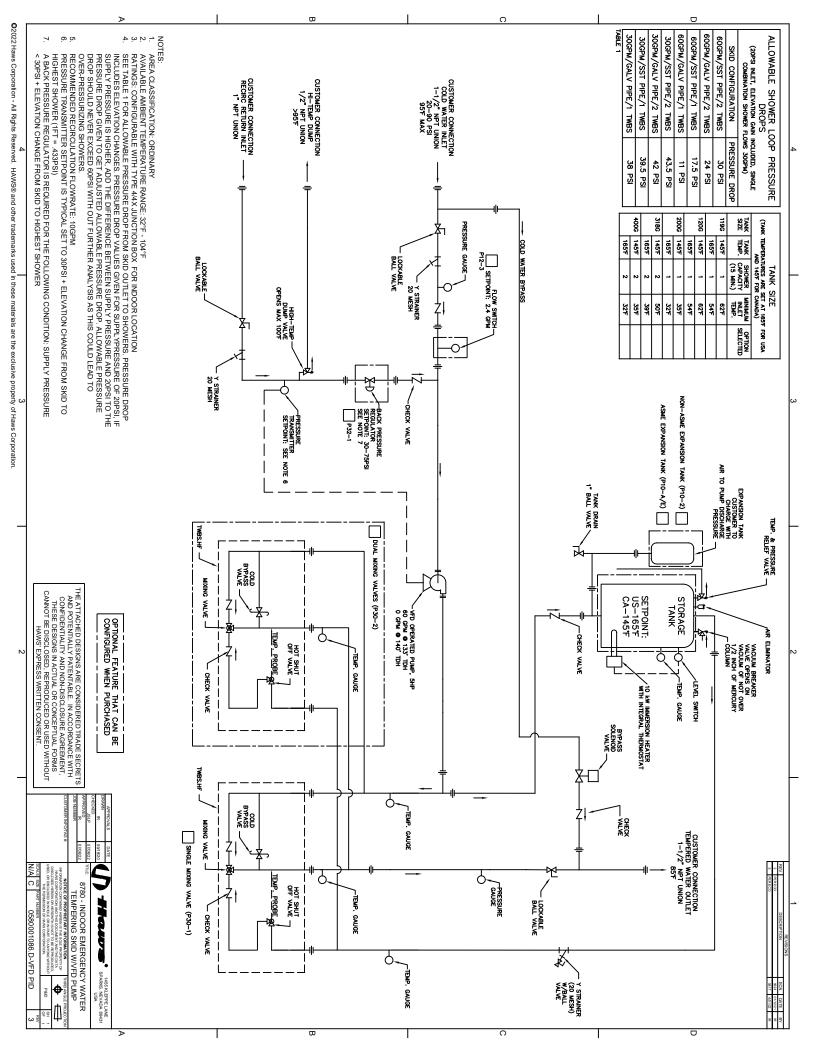












## 8780 PART NUMBER BREAKDOWN

## PART NUMBER CONFIGURATION AND DRAWING REFERENCE GUIDELINE.

## STEP 1:

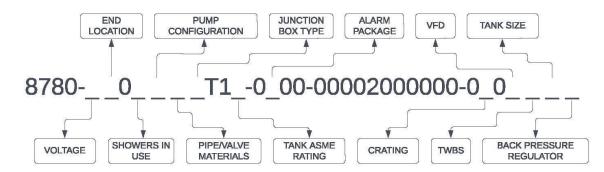
CONFIGURE PART NUMBER OR RETRIEVE PART NUMBER FROM EQUIPMENT. EXAMPLE PN: 8780-5U0D3B0T1T-0000-00002000000-0001141

#### STED 2

DETERMINE THE DRAWING SET THAT APPLIES TO THE CONFIGURED PART NUMBER. UNITS WITH NO PUMP OR JUST A RECIRCULATION PUMP USE DRAWINGS 0580001086.D-EL, 0580001086.D-PID AND 0580001086.D-GA. UNITS WITH A BOOSTER/RECIRCULATION PUMP AND A VFD USE DRAWINGS 0580001086.D-VFD EL, 0580001086.D-VFD PID AND 0580001086.D-VFD GA.

#### STEP 3:

USE THE TABLES BELOW TO DETERMINE WHICH SECTIONS OF THE DRAWINGS APPLY.



VOLTAGE	PN	DRAWING REFERENCE
208V 1PH 60HZ	1	P1-1
208V 3PH 60HZ	2	P1-2
240V 1PH 60HZ	3	P1-3
240V 3PH 60HZ	4	P1-4
480V 3PH 60HZ	5	P1-5
600V 3PH 60HZ	6	P1-6

END LOCATION	PN	DRAWING REFERENCE
UNITED STATES	U	P2-U
CANADA	S	P2-S

	SHOWERS IN USE	PN	DRAWING REFERENCE
3	ONE (30GPM)	S	P4-S
	TWO (60GPM)	D	P4-D

PUMP CONFIGURATION	PN	DRAWING REFERENCE
NO PUMP	0	0580001086.D-EL, P5-0 0580001086.D-PID, P5-0 0580001086.D-GA, P5-0
RECIRCULATION PUMP	1	0580001086.D-EL, P5-1 0580001086.D-PID, P5-1 0580001086.D-GA, P5-1
BOOSTER/RECIRC. PUMP (VFD INCLUDED)	3	0580001086.D-VFD EL, P5-3 0580001086.D-VFD PID, P5-3 0580001086.D-VFD GA, P5-3

PIPE AND VALVE MATERIALS	PN	DRAWING REFERENCE
GALVANIZED PIPE WITH BRASS VALVES AND STRAINERS	G	P6-G
304 SST PIPE WITH BRASS VALVES AND STRAINERS	В	Р6-В
304 SST PIPE WITH STAINLESS STEEL VALVES AND STRAINERS	s	P6-S

JUNCTION BOX TYPE	PN	DRAWING REFERENCE
TYPE 4	0	P7-0
TYPE 4X	1	P7-1

TANK ASME RATING	PN	DRAWING REFERENCE
NON-ASME EXPANSION TANK	Т	P10-T
ASME TANKS	Α	P10-A
ASME EXPANSION TANK ONLY	Е	P10-E

IN-USE ALARM PACKAGE	PN	DRAWING REFERENCE
NONE	0	÷
FLOW SWITCH WITH ISOLATED ALARM DRY CONTACTS	3	P12-3

CRATING	PN
STANDARD	0
PREMIUM	1

VFD	PN	DRAWING REFERENCE
		0580001086.D-EL
NONE	0	0580001086.D-PID
		0580001086.D-GA
INCLUDED		0580001086.D-VFD EL
(BOOSTER/RECIRC.	1	0580001086.D-VFD PID
PUMP ONLY)		0580001086.D-VFD GA

TWBS	PN	DRAWING REFERENCE
ONE	0	P30-1
TWO	1	P30-2

TANK SIZE (GAL)	PN	DRAWING REFERENCE
119	0	P31-0
120	1	P31-1
200	2	P31-2
318 (NON-VFD, 125PSI)	3	P31-3
318 (VFD, 150PSI)	4	P31-4
400 (NON-VFD, 125PSI)	5	P31-5
400 (VFD, 150PSI)	6	P31-6

BACKPRESSURE REGULATOR	PN	DRAWING REFERENCE
NONE	0	<b>E</b>
INCLUDED	1	P32-1