

SYSTEM ENVELOPE - ENERGY TRANSFER STATION | SUBMITTAL

File No: 91.302
 Date: SEPTEMBER 15, 2025
 Supersedes: NEW
 Date: NEW

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

SE ENERGY TRANSFER STATION DESIGN DATA

No. of pumps: _____ Tag: _____
 Building type: _____ Location: _____
 Annual operating hours: _____
 Application: ☐ Fluid break
 ☐ District energy building load
 ☐ Water side economizer
 ☐ Geothermal
 ☐ Boiler circuit applications
 ☐ Other _____

Heat load: _____ MBH (kW) Heat load redundancy: _____ %
 Design pressure: ☐ 150psi (10bar) ☐ 300psi (20bar)

Cold side

Fluid type: _____
 Inlet temperature: _____ °F (°C) Outlet temperature: _____ °F (°C)
 Design flow: _____ gpm (L/s) Design head: _____ psi (kPa)
 Max pressure drop: _____ psi (kPa)

Hot side

Fluid type: _____
 Inlet temperature: _____ °F (°C) Outlet temperature: _____ °F (°C)
 Design flow: _____ gpm (L/s) Design head: _____ psi (kPa)
 Max pressure drop: _____ psi (kPa)

HEAT TRANSFER MODULE DESIGN DATA

Model no: _____
 System connection type: ☐ Grooved ☐ Flanged
 System connection size: _____ in (DN)
 BAS communication protocol: ☐ BACnet/IP
 ☐ BACnet MS/TP
 ☐ Modbus RTU

PUMPING MODULE DESIGN DATA - SOURCE SIDE

For the source side Pumping module pick one: Pump or PICV

☐ Pump module

Model no: _____
 Electrical panel orientation: ☐ Left ☐ Right
 Motor power: ☐ 208/3/60 ☐ 230/3/60
 ☐ 460/3/60 ☐ 575/3/60
☐ Fused disconnect switch ☐ Pump screen cover
 Seal type: ☐ Carbon-Ceramic (C-CER 1A)
 ☐ Carbon-Silicon Carbide (C-SSC AB2)
 ☐ Silicon Carbide (C-SSC G30)

Seal environment accessories:

☐ 50 micron sediment filter with sight flow indicator
☐ Cyclone separator nylon with sight flow indicator

☐ PICV module

Model no: _____
 Electrical panel orientation: ☐ Left ☐ Right

ACCESSORIES

- ☐ Cold Side Flow Meter
- ☐ Hot Side Flow Meter
- ☐ Insulated Assembly
- ☐ Straight piping kit from pump to heat exchanger
- ☐ 90° piping kit from pump to heat exchanger

PUMPING MODULE DESIGN DATA - LOAD SIDE

For the load side the Pumping module is always one: Pump module

☐ Pump module

Model no: _____

Electrical panel orientation: ☐ Left ☐ Right

Motor power: ☐ 208/3/60 ☐ 230/3/60
☐ 460/3/60 ☐ 575/3/60

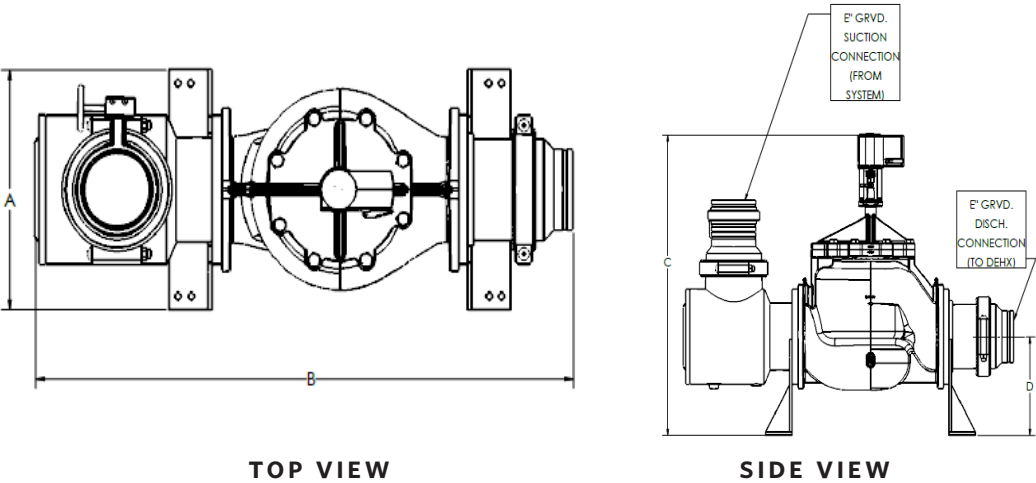
☐ Fused disconnect switch ☐ Pump screen cover

Seal type: ☐ Carbon-Ceramic (C-CER 1A)
☐ Carbon-Silicon Carbide (C-SSC AB2)
☐ Silicon Carbide (C-SSC G30)

Seal environment accessories:
☐ 50 micron sediment filter with sight flow indicator
☐ Cyclone separator nylon with sight flow indicator

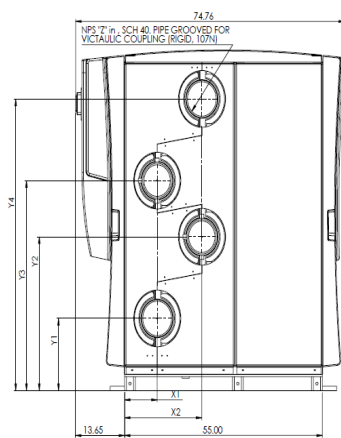
PICV MODULE

MODEL NAME	SUCTION GUIDE	FLOW usgpm (L/s)		DIMENSION in inches (mm)					WEIGHT lbs (kg)
		MIN	MAX	A	B	C	D	NPS 'E'	
PCVM-0401	SGG-44	60 (3.8)	250 (15.8)	21.00 (533)	31.54 (801)	41.94 (1065)	16.69 (424)	4.00 (102)	240 (108.9)
PCVM-0405	SGG-55	100 (6.3)	370 (23.3)	22.00 (559)	38.37 (975)	42.27 (1074)	16.69 (424)	4.00 (102)	255 (115.7)
PCVM-0402	SGG-66	150 (9.5)	500 (31.5)	23.00 (584)	42.15 (1071)	44.66 (1134)	16.69 (424)	4.00 (102)	308 (139.7)
PCVM-0602	SGG-66	200 (12.6)	740 (46.7)	23.00 (584)	38.14 (969)	44.66 (1134)	16.69 (424)	6.00 (152)	295 (133.8)
PCVM-0603	SGG-88	300 (18.9)	570 (36.0)	26.00 (660)	53.14 (1350)	44.77 (1137)	16.69 (424)	6.00 (152)	484 (219.5)
PCVM-0604	SGG-1010	225 (14.2)	960 (60.6)	26.00 (660)	65.50 (1664)	50.83 (1291)	16.69 (424)	6.00 (152)	721 (327.0)
PCVM-1004	SGG-1010	345 (21.8)	1425 (89.9)	26.00 (660)	65.84 (1672)	50.08 (1272)	16.69 (424)	8.00 (203)	732 (332.0)

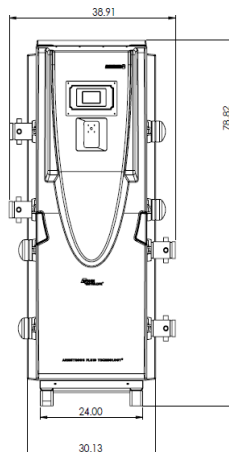
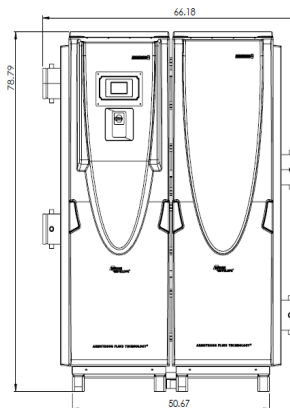
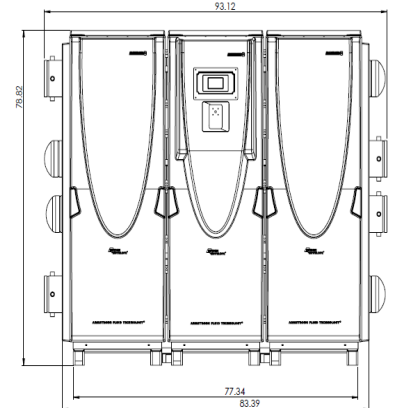


HEAT TRANSFER MODULE

MODEL NAME		FLOW usgpm (L/s)		HEAT LOAD MBH (kW)		HEAT TRANSFER AREA sq ft (sq m)	DIMENSION in inches (mm)							WEIGHT lbs (kg)
		MIN	MAX	ΔT 10°F	ΔT 20°F		Y1	Y2	Y3	Y4	X1	X2	Z (NPS, SCH 40)	
Simplex	SE-ETS-400-90-01	60 (3.8)	190 (12.0)	672 (197)	1356 (397)	196 (18)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	4.00 (102)	1930 (875.4)
	SE-ETS-400-120-01	75 (4.7)	250 (15.8)	876 (257)	1752 (514)	261 (24)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	4.00 (102)	1983 (899.5)
	SE-ETS-400-160-01	100 (6.3)	320 (20.2)	1080 (317)	2148 (630)	339 (31)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	4.00 (102)	2054 (931.7)
	SE-ETS-400-200-01	115 (7.3)	370 (23.3)	1296 (380)	2604 (763)	420 (39)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	4.00 (102)	2125 (963.9)
	SE-ETS-600-202-01	150 (9.5)	475 (30.0)	1680 (492)	3348 (981)	646 (60)	16.70 (424)	35.56 (903)	48.59 (1234)	67.45 (1713)	11.75 (298)	21.43 (544)	4.00 (102)	2481 (1125.4)
Duplex	SE-ETS-400-90-02	120 (7.6)	380 (24.0)	1356 (397)	2700 (791)	392 (36)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	4.00 (102)	4060 (1841.6)
	SE-ETS-400-120-02	150 (9.5)	500 (31.5)	1752 (514)	3504 (1027)	522 (48)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	4.00 (102)	4166 (1889.7)
	SE-ETS-400-160-02	200 (12.6)	640 (40.4)	2148 (630)	4296 (1259)	678 (63)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	6.00 (152)	4508 (2044.8)
	SE-ETS-400-200-02	230 (14.5)	740 (46.7)	2604 (763)	5196 (1523)	840 (78)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	6.00 (152)	4650 (2109.2)
	SE-ETS-600-202-02	300 (18.9)	950 (59.9)	3348 (981)	6696 (1963)	1292 (120)	16.70 (424)	35.56 (903)	48.59 (1234)	67.45 (1713)	11.75 (298)	21.43 (544)	6.00 (152)	5160 (2340.5)
Triplex	SE-ETS-400-90-03	180 (11.4)	570 (36.0)	2028 (594)	4056 (1189)	588 (55)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	6.00 (152)	6389 (2898.0)
	SE-ETS-400-120-03	225 (14.2)	750 (47.3)	2628 (770)	5256 (1541)	783 (73)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	6.00 (152)	6548 (2970.1)
	SE-ETS-400-160-03	300 (18.9)	960 (60.6)	3228 (946)	6456 (1892)	1017 (94)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	6.00 (152)	6762 (3067.2)
	SE-ETS-400-200-03	345 (21.8)	1110 (70.0)	3900 (1143)	7800 (2286)	1260 (117)	16.70 (424)	31.99 (813)	42.30 (1074)	57.62 (1464)	10.46 (266)	22.05 (560)	8.00 (203)	7435 (3372.5)
	SE-ETS-600-202-03	450 (28.4)	1425 (89.9)	5028 (1474)	10056 (2947)	1938 (180)	16.70 (424)	35.56 (903)	48.59 (1234)	67.45 (1713)	11.75 (298)	21.43 (544)	8.00 (203)	8200 (3719.5)



SIDE VIEW

FRONT VIEW
SIMPLEXFRONT VIEW
DUPLEXFRONT VIEW
TRIPLEX

PUMPING MODULE

MODEL NAME	SUCTION GUIDE MODEL	FLOW usgpm (L/s)		HEAD ft (m)		NPSHR ft (m)	DIMENSION in inches (mm)							WEIGHT lbs (kg)
		MIN	MAX	MIN	MAX		A	B	C	D	E	F	NPS "G"	
iFMS-N-10104	SGG-2515	60 (3.8)	300 (18.9)	20.0 (6.1)	120.0 (36.6)	15.9 (4.8)	38.68 (982)	30.53 (775)	66.92 (1700)	30.70 (780)	65.00 (1651)	16.70 (424)	4.00 (102)	118 (53.5)
iFMS-N-10204	SGG-425	60 (3.8)	600 (37.9)	30.0 (9.1)	120.0 (36.6)	11.6 (3.5)	42.59 (1082)	31.37 (797)	66.92 (1700)	28.78 (731)	65.00 (1651)	16.70 (424)	5.00 (127)	150 (68.0)
iFMS-N-10304	SGG-42	100 (6.3)	475 (30.0)	50.0 (15.2)	160.0 (48.8)	17.2 (5.2)	32.58 (828)	30.16 (766)	66.92 (1700)	28.78 (731)	65.00 (1651)	16.70 (424)	5.00 (127)	103 (46.7)
iFMS-N-10407	SGG-84	200 (12.6)	1300 (82.0)	30.0 (9.1)	130.0 (39.6)	17.7 (5.4)	69.00 (1753)	55.38 (1407)	66.92 (1700)	38.00 (965)	65.00 (1651)	16.70 (424)	8.00 (203)	513 (232.7)
iFMS-N-10504	SGG-84	200 (12.6)	1400 (88.3)	40.0 (12.2)	160.0 (48.8)	20.1 (6.1)	59.00 (1499)	55.38 (1407)	66.92 (1700)	32.00 (813)	65.00 (1651)	16.70 (424)	8.00 (203)	513 (232.7)
iFMS-N-10604	SGG-84	300 (18.9)	1425 (89.9)	30.0 (9.1)	130.0 (39.6)	26.4 (8.0)	67.00 (1702)	55.38 (1407)	66.92 (1700)	32.00 (813)	65.00 (1651)	16.70 (424)	10.00 (254)	515 (233.6)
iFMS-N-10704	SGG-84	300 (18.9)	1425 (89.9)	50.0 (15.2)	190.0 (57.9)	26.9 (8.2)	59.48 (1511)	59.36 (1508)	66.92 (1700)	32.25 (819)	65.00 (1651)	16.70 (424)	10.00 (254)	955 (433.2)
iFMS-N-10804	SGG-104	450 (28.4)	1425 (89.9)	45.0 (13.7)	170.0 (51.8)	29.3 (8.9)	60.49 (1536)	59.36 (1508)	66.92 (1700)	32.25 (819)	65.00 (1651)	16.70 (424)	10.00 (254)	955 (433.2)

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LYON

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DUBAI

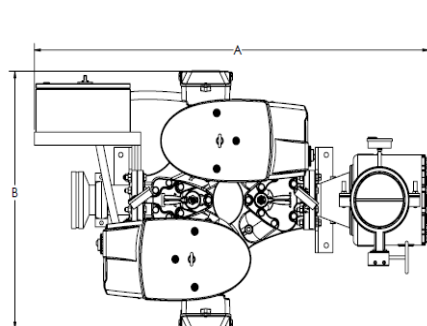
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JIMBOLIA

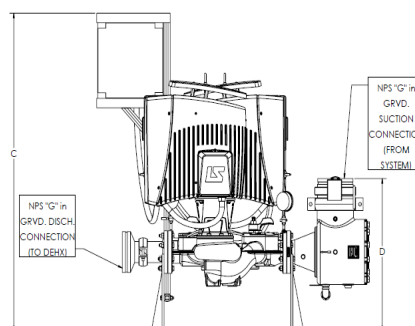
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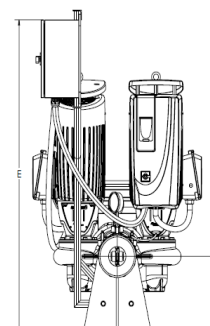
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TOP VIEW



SIDE VIEW



FRONT VIEW