

	Units	SEMISTAT S 1200	POU 3300	SEMISTAT S 2400	POU 3500	SEMISTAT S 4400
<b>REFRIGERATION</b>						
Cooling capacity at -20 °C	W	80	200	350	500	700
Cooling capacity at -10 °C	W	350	450	875	1000	1650
Cooling capacity at 0 °C	W	600	700	1400	1500	2600
Cooling capacity at 10 °C	W	900	950	1925	2000	3500
Cooling capacity at 20 °C	W	1200	1200	2450	2400	4400
<b>HEATER</b>						
Heating capacity	W	>3000	>3000	>6000	>6000	>12000
<b>TEMPERATURE</b>						
Working temperature range	°C	-20 - 90	-20 - 90	-20 - 90	-20 - 90	-20 - 90
Absolute measurement accuracy	K	± 1.0 (additive calibratable)	± 1.0 (additive calibratable)	± 1.0 (additive calibratable)	± 1.0 (additive calibratable)	± 1.0 (additive calibratable)
Temperature stability	K	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
<b>HYDRAULICS</b>						
Pump type		Magnetically coupled DC	Magnetically coupled DC	Magnetically coupled DC	Magnetically coupled DC	Magnetically coupled DC
Pump pressure	psi [bar]	40 [2.8] (max. condition)	40 [2.8] (max. condition)	40 [2.8] (max. condition)	40 [2.8] (max. condition)	40 [2.8] (max. condition)
Pump flow	gpm [Lpm]	5.8 [22] (max. condition)	5.8 [22] (max. condition)	5.8 [22] (max. condition)	7.1 [27] (max. condition)	7.1 [27] (max. condition)
Volume of the tank	gal [L]	» .25 [1.0]	» .33 [1.25]	» .33 [1.25]	» .66 [2.50]	» .66 [2.50]
Interfaces		½" Barb (Process) ½" Swagelok Compression (PCW)	½" Barb (Process) ½" Swagelok Compression (PCW)	½" Barb (Process) ½" Swagelok Compression (PCW)	½" Barb (Process) ½" Swagelok Compression (PCW)	½" Barb (Process) 2 x ½" Swagelok Compression (PCW)
Heat transfer liquids		Perfluorinated Fluid (3M FC-3283, Galden HT135)	Perfluorinated Fluid (3M FC-3283, Galden HT135)	Perfluorinated Fluid (3M FC-3283, Galden HT135)	Perfluorinated Fluid (3M FC-3283, Galden HT135)	Perfluorinated Fluid (3M FC-3283, Galden HT135)
PCW Temperature	°C	<20	<20	<20	<20	<20
Min PCW Flow Rate	gpm [Lpm]	3 [11.4]	3 [11.4]	5 [18.9]	3 [11.4]	8 [30.0]
<b>POWER SUPPLY</b>						
Input Voltage	VDC	0V - 250V from PSC	0V - 200V from PSC	0V - 250V from PSC	0V - 200V from PSC	0V - 250V from PSC
Input Current	IDC	0A - 17.5A from PSC	0A - 30A from PSC	0A - 30A from PSC	0A - 30A from PSC	0A - 52.5A from PSC
<b>CDA</b>						
Required for setpoint	°C	-20 - 30	-20 - 30	-20 - 30	-20 - 30	-20 - 30
Interface		¼" OD Tube	¼" OD Tube	¼" OD Tube	2X ¼" OD Tube	2X ¼" OD Tube
Pressure	Psig [KPa]	7 - 9 [48 - 62]	7 - 9 [48 - 62]	7 - 9 [48 - 62]	7 - 9 [48 - 62]	7 - 9 [48 - 62]
Flow Rate	Scfh [m³/h]	80-120 [2-3]	80-120 [2-3]	80-120 [2-3]	80-120 [2-3]	80-120 [2-3]
Dewpoint	°C	-30 or lower	-30 or lower	-30 or lower	-30 or lower	-30 or lower
<b>USER INTERFACE</b>						
Display		N/A	N/A	N/A	N/A	N/A
Value input		PSC Keypad	PSC Keypad	PSC Keypad	PSC Keypad	PSC Keypad
<b>ELECTRONIC INTERFACE</b>						
RTDs, Fill Sensor, Overtemperature switches, TE and Pump Power		Power / Signal Cable to PSC	Power / Signal Cable to PSC	Power / Signal Cable to PSC	Power / Signal Cable to PSC	Power / Signal Cable to PSC
<b>MECHANICAL</b>						
Unit dimensions (w x d x h)	in [mm]	4.6 x 9.25 x 18.5 [116 x 232 x 470]	4.6 x 11.8 x 22 [116 x 300 x 560]	4.6 x 11.8 x 22 [116 x 300 x 560]	7.64 x 11.8 x 22 [194 x 300 x 560]	7.64 x 11.8 x 22 [194 x 300 x 560]
Weight	lb [kg]	33 [15]	55 [25]	55 [25]	84[38]	84[38]
Handles		Single handle, top.	Single handle, top.	Single handle, top.	Double handle, top.	Double handle, top.
<b>ENVIRONMENTAL</b>						
Ambient temperature	°C	5 to 40	5 to 40	5 to 40	5 to 40	5 to 40
Relative humidity		maximal 80 % at 31°C	maximal 80 % at 31°C	maximal 80 % at 31°C	maximal 80 % at 31°C	maximal 80 % at 31°C
Operational area		for internal use; altitude up to 2000 m	for internal use; altitude up to 2000 m	for internal use; altitude up to 2000 m	for internal use; altitude up to 2000 m	for internal use; altitude up to 2000 m
Overvoltage category		Category II	Category II	Category II	Category II	Category II
Pollution degree		Degree 2	Degree 2	Degree 2	Degree 2	Degree 2
Degree of protection		IP2X	IP2X	IP2X	IP2X	IP2X
<b>QUALITY</b>						
CE marking		yes	yes	yes	yes	yes
SEMI S2 Certification		yes	yes	yes	yes	yes
ISO 9000 (2015)		yes	yes	yes	yes	yes
<b>SAFETY</b>						
Safety Class		I, NFL (non-flammable liquids)	I, NFL (non-flammable liquids)	I, NFL (non-flammable liquids)	I, NFL (non-flammable liquids)	I, NFL (non-flammable liquids)