C NVIRON°



KEY PRODUCT SPECIFICATIONS

	model	application		rior Dimens	ions	volume	growth	growth	no. of	temp (°C)	light intensity	refrigeration	airflow
			41"	32.5"	77"	27.6 ft ³	area 6.3 ft²	height 43.5"	tiers	lights ON / OFF	at 25°C (μ)		
	GEN1000 TA	Plant Growth	1040 mm	825 mm	1955 mm	781 L	0.6 m ²	1105 mm	4 - 40		1000	Air Cooled	<u> </u>
	GEN1000 SH	Plant Growth/ Short Plant	41" 1040 mm	32.5" 825 mm	77" 1955 mm	27.6 ft ³ 781 L	11.3 ft ² 1.1 m ²	20" 510 mm	2-3	10 - 45 4 - 40	450	Air Cooled	\rightarrow
	GEN1000TC	Tissue Culture	41" 1040 mm	32.5" 825 mm	77" 1955 mm	27.6 ft³ 781 L	22.6 ft ² 2.1 m ²	6.5" 165 mm	4	10 - 45 4 - 40	300	Air Cooled	↑
	GEN1000 IN	Incubation	41" 1040 mm	32.5" 825 mm	77" 1955 mm	27.6 ft ³ 781 L	22.6 ft ² 2.1 m ²	8.5" 216 mm	4	10 - 45 4 - 40	300	Air Cooled	\rightarrow
RS	GEN1000 GE	Germination/ Incubation	41" 2540 mm	32.5″ 750 mm	77" 1955 mm	27.6 ft ³ 781 L	4.98 ft ² 0.5 m ²	2.5" 64 mm	up to 15	5 10 - 40 4 - 40 11-22		Air Cooled	→
\MBEI	E7/2	Plant Growth / Short Plant	72" 1830 mm	29.5″ 750 mm	78.5" 2000 mm	17 ft³ 480 L	8.2 ft ² 0.76 m ²	23.5" 605 mm	2	10 - 45 4 - 45	400	Air Cooled	↑
IN CH/	E8	Plant Growth	71.24" 1810 mm	29.5" 750 mm	76.25" 1935 mm	32 ft ³ 900 L	8 ft ² 0.7 m ²	46" 1180 mm	1	10 - 45 4 - 45	575	Air Cooled	↑
REACH-IN CHAMBERS	PGR15	Plant Growth	104" 2640 mm	35" 890 mm	78" 1980 mm	78 ft ³ 2220 L	16.1 ft ² 1.5 m ²	57" 1450	1	10 - 45 4 - 45		Water Cooled	↑
AB.	PGC Flex 1 tier	Plant Growth	100" 2540 mm	35.5" 900 mm	101" 2565 mm	111 ft ³ 3145 L	19 ft² 1.8 m²	59.75" 1520 mm	1	10 - 40 4 - 40		Water Cooled	↑
	PGC Flex 2 tier	Plant Growth	100" 2540 mm	35.5" 900 mm	101" 2565 mm	111 ft ³ 3145 L	38 ft ² 3.6 m ²	25" 635 mm	2	10 - 40 4 - 40	500	Water Cooled	\rightarrow
	PGC Flex 3 tier	Plant Growth	100" 2540 mm	35.5" 900 mm	101" 2565 mm	111 ft ³ 3145 L	57 ft ² 5.2 m ²	14" 355 mm	3	10 - 40 4 - 40			→
	BDR16	Plant Growth	105" 2675 mm	36" 915 mm	89" 2260 mm	88.5 ft ³ 2500 L	16.2 ft ² 1.5 m ²	65" 1650 mm	1	10 - 40 4 - 40	800	Water Cooled	\
	MTR30	Plant Growth / Short Plant	104" 2640 mm	35" 890 mm	78″ 1980 mm	31 ft ³ 940 L	30 ft ² 2.8 m ²	25" 635 mm	2	10 - 45 4 - 45 550		Water Cooled	↑ ←
	PGW40	Plant Growth	140" 3556 mm	70″ 1780 mm	102" 2600 mm	263 ft ³ 744 L	41.5 ft ² 3.86 m ²	76" 1930 mm	1	10 - 45 4 - 40	1400	Water Cooled	↑
	BDW40	Plant Growth	120" 3050 mm	70" 1780 mm	114.25" 2900 mm	316 ft ³ 8920 L	40 ft 3.7 m ²	95" 2415 mm	1	10 - 40 4 - 40		Water Cooled	\
	BDW80	Plant Growth	120" 3050 mm	133.25" 3385 mm	114.25" 2900 mm	640 ft ³ 18120 L	80.9 ft ² 7.5 m ²	95" 2415 mm	1	10 - 40 4 - 40		Water Cooled	Ψ
	BDW120	Plant Growth	120" 3050 mm	196.25" 4991 mm	114.25" 2900 mm	964 f ^{t3} 27130 L	121.7 ft ² 11.3 m ²	95" 2415 mm	1	10 - 40 4 - 40	1100	Water Cooled	V
	BDW160	Plant Growth	120" 3050 mm	259.75" 6595 mm	114.25" 2900 mm	1285 ft ³ 36385 L	162.2 ft ² 15.1 m ²	95" 2415 mm	1	10 - 40 4 - 40	1100	Water Cooled	\
	GR48	Plant Growth	116" 2950 mm	116" 2950 mm	102" 2600 mm	320 ft ³ 9130 L	48 ft ² 4.5 m ²	80" 2030 mm	1	15 - 35 5 - 25	600	Water Cooled	ĽУ
	GR64	Plant Growth	139" 3530 mm	116" 2950 mm	102" 2600 mm	420 ft ³ 11980 L	64 ft ² 5.9 m ²	80" 2030 mm	1	15 - 35 5 - 25	600	Water Cooled	עא
	GR96	Plant Growth	116" 2950 mm	208" 5285 mm	102" 2600 mm	640 ft ³ 18120 L	96 ft ² 8.9 m ²	80" 2030 mm	1	15 - 35 5 - 25		Water Cooled	ĽУ
	GR128	Plant Growth	139" 3530 mm	208" 5285 mm	102" 2600 mm	850 ft ³ 23960 L	128 ft ² 11.9 m ²	80" 2030 mm	1	15 - 35 5 - 25 600		Water Cooled	עא
BERS	GR144	Plant Growth	116"	300"	102"	960 ft ³	144 ft²	80"	1	15 - 35	15 - 35 5 - 25 600		
CHAM	GR192	Plant Growth	2950 mm 139"	7620 mm 300"	2600 mm	26800 L 1280 ft ³	13.5 m ²	2030 mm 80"	1	15 - 35	600	Water Cooled	
WALK-IN CHAMBERS	TCR60	Tissue Culture	3530 mm	7620 mm	2600 mm	36000 L 99 ft ³	17.8 m ²	2030 mm	3	5 - 25 15 - 40	200	Water Cooled	
WAI			3240 mm 128"	1780 mm 128"	2800 mm 110"	2803 L 190 ft ³	5.6 m ² 120 ft ²	510 mm 20"		5 - 40 15 - 40			
	TCR120	Tissue Culture	3240 mm	3240 mm	2800 mm	5640 L	11.2 m ²	510 mm	3	5 - 40	200	Water Cooled	<u> </u>
	TCR180	Tissue Culture	128" 3240 mm	185″ 4700	110" 2800 mm	290 ft ³ 8460 L	180 ft ² 16.7 m ²	20" 510 mm	3	15 - 40 5 - 40	200	Water Cooled	<u> </u>
	MTPS72	Plant Growth / Short Plant	139" 3530 mm	70" 1780 mm	110" 2800 mm	366 ft ³ 10364 L	72 ft ² 6.7 m ²	22" 560 mm	3	15 - 35 10 - 35	275	Water Cooled	←
	MTPS144	Plant Growth / Short Plant	139" 3530 mm	127.5" 3240 mm	110" 2800 mm	706 ft ³ 19992 L	144 ft² 13.4 m²	20" 510 mm	3	15 - 35 10 - 35	275	Water Cooled	+
	MTPS216	Plant Growth / Short Plant	139" 3530 mm	185" 5285 mm	110" 2800 mm	1045 ft ³ 29590 L	216 ft ² 20.1 m ²	22" 560 mm	3	15 - 35 10 - 35	275	Water Cooled	←
	MTPS288	Plant Growth / Short Plant	139" 3530 mm	242.5" 6160 mm	110" 2800 mm	1317 ft ³ 37293 L	288 ft ² 26.8 m ²	20" 560 mm	3	15 - 35 10 - 35	275	Chilled Water	←
	MTPS360	Plant Growth / Short Plant	139" 3530 mm	288.5" 7328 mm	110" 2800 mm	1850 ft ³ 52387 L	360 ft ² 33.4 m ²	20" 560 mm	3	15 - 35 10 - 35	275	Chilled Water	←
	MTPS432	Plant Growth / Short Plant	139" 3530 mm	346" 8800 mm	110" 2800 mm	1996 ft ³ 56520 L	432 ft ² 40.1 m ²	22" 560 mm	3	15 - 35 10 - 35	275	Chilled Water	+
	MTPS Flex	Plant Growth / Short Plant		See MTPS72	to MTPS288	series above	e		1,2,3	15-35 10-35	500-1000	Water Cooled	←

COMMON OPTIONS

Maria Mari	CON	AMON O	FIIONS	1	, Au		iai acc I						l					I	I	1 1
ABGUS Trun Control System				GEN1000 TA	GEN1000 SH	GEN1000 TC	GEN1000 IN	GEN1000 GE	E7/2	E8	PGR15	PGC Flex	BDR16	MTR30	PGW40	BDW Series	GR Series	TCR Series	MTPS Series	MTPS Flex
Math	PROGRAMMING	ADIAL	Automatic Telephone Dialing System											•	•	•	•	•	•	
March Marc		ARGUS	Titan Control System							•				•	•	•	•	•	•	
UPS Controller UPS		AUTOW	Auto Watering System								•			•	•	•			•	
UPS Controller UPS		AUX	Auxiliary Circuits																	
UPS Controller UPS		CMPLink	Enables Full Argus Interaction																•	
CAST Swivel Casters S S S S S S S S S		SEN	Temperature Sensor(s)																•	
Page Fish Ebb & Flow Infigation System		UPS	Controller UPS					•						•	•				•	
Page		CAST	Swivel Casters		S	S	S	S												
SMC Split machine compartment	NO	EFIS	Ebb & Flow Irrigation System																	
SMC Split machine compartment	UCTIC	GH	Growth Height Increases																	
SMC Split machine compartment	NSTR	OW	Observation Window						S	S	S	S	S			S	S	S	S	S
CMH	8	RECP	Electrical Receptacles, Type & location							S	S									
HL		SMC	Split machine compartment																	
MIOTS MIO High Light Intensity		CMH	Ceramic Metal Halide Lighting																	
LED Light Emitting Union LMMCL Lamps Incorporate Dimming Ballasts		HL	High Light Intensity												S					S
LED Light Emitting Union LMMCL Lamps Incorporate Dimming Ballasts		M10T5	M10 High Light Intensity																	
PSC Circulation Fan Speed Control S S S S S S S S S		LED	Light Emitting Diode																	
Total Tota		LMMCL	Lamps Incorporate Dimming Ballasts								S									
SDF Sequential Defrost S		FSC	Circulation Fan Speed Control	S	S	S	S					S				S	S		S	S
SDF Sequential Defrost S		LT	Low Temperature Operation																	
SDF Sequential Defrost S		ULT	Ultra Low Temperature Operation																	
RAC Remote Outdoor Air-Cooled Condenser		SDF	Sequential Defrost																	
OACU Outdoor Air-Cooled Condensing Unit		ACSC	Air-Cooled Self-Contained Condensing	S	S	S	S	S	S	S										
CPC Phenolic Coated Refrigeration Coil	REFRIGERATION	RAC	Remote Outdoor Air-Cooled Condenser																	
CPC Phenolic Coated Refrigeration Coil		OACU	Outdoor Air-Cooled Condensing Unit																	
CPC Phenolic Coated Refrigeration Coil		WC	Water-Cooled Condensing Unit								S	S	S	S	S	S	S	S	S	S
CPC Phenolic Coated Refrigeration Coil		GLY	Chilled Water/Glycol Heating/Cooling																	
ASNH Assisted Spray Nozzle Humidification CAH Centrifugal Atomizing Humidification SNH Spray Nozzle Humidification USH Ultrasonic Humidification Dehumidification CD Dehumidification CO2 Carbon Dioxide Additive Control		СРС	Phenolic Coated Refrigeration Coil																	
CAH Centrifugal Atomizing Humidification		DXLL	Refrigerant Cooled Lamp Loft																	
SNH Spray Nozzle Humidification	HUMIDITY	ASNH	Assisted Spray Nozzle Humidification																	
USH Ultrasonic Humidification		CAH	Centrifugal Atomizing Humidification																	
CD Dehumidification by Chemical Dryer SCD Separate coil Dehumidification CO2 Carbon Dioxide Additive Control		SNH	Spray Nozzle Humidification																	
CD Dehumidification by Chemical Dryer SCD Separate coil Dehumidification CO2 Carbon Dioxide Additive Control		USH	Ultrasonic Humidification																	
SCD Separate coil Dehumidification		BDH	Bypass Dehumidification																	
CO2 Carbon Dioxide Additive Control · · · · · · · · · · · · · · · · · ·		CD	Dehumidification by Chemical Dryer																	
		SCD	Separate coil Dehumidification																	
SCRUB Carbon Dioxide Scrubber	2	CO2	Carbon Dioxide Additive Control																	
	8	SCRUB	Carbon Dioxide Scrubber																	

PROGRAMMING

ARGUS

Argus Titan control system: designed to provide comprehensive monitoring and equipment automation throughout your facility.

Auto Watering System: hose bib connection controlled by programmable solenoid.

AUX

Auxiliary Circuits: programmable on/off output, provides an auxiliary switch, terminated in the control panel, for timed control of automatic watering, nutrient dosing, etc. Up to four switches available.

UPS

Controller UPS: surge protection and uninterrupted power supply, on controller only, for continuous operation of the controller during power interruptions.

CONSTRUCTION

Ebb & Flow Irrigation System: automatic control of irrigation system controlled through the control system.

FC

Exhaust collar: allows connection to central exhaust system, measuring 4" (100mm).

Fresh Air: filtered inlet G3 type, washable, 100 cfm (48 l/s) providing a constant 4x air changes per hour.

GH

Extended growth and exterior heights.

RECP

Electrical Receptacles, Type & Location: wall mounted convenience electrical receptacle within growth area (2 amp allowance).

HEPA (call for availability) Exhaust HEPA filter: installed to the exhaust outlets made easily accessible for removal.

LIGHTING

HID

High Intensity Discharge: using metal halide and high pressure sodium lamps.

High light Intensity: using fluorescent and halogen incandescent lamps.

Various LED spectrum available allowing for a wide range of intensities. Dimming optional.

LMMCL

Lamps Incorporate Dimming Ballasts: programmable or manual adjustment of light intensity within the programmed range (as low as 5% with fluorescent, 25% with Metal Halide, 30% with High Pressure Sodium and 40% with Ceramic Metal Halide), to maximum intensity. Incandescent lamps are controlled in light levels.

Manual Dimmable Lighting System: manual adjustment of light intensity within the programmed range as low as 5% with fluorescent lamps, to maximum intensity. (call for availability)

Multi-Tier Operation: multi-tier shelving assemblies provide a maximum light intensity of 500 micromoles/m²/s each. (call for availability)

WCLL

Water-Cooled Lamp Loft: lamp heat removed by a dedicated water cooling coil.

TEMPERATURE

FSC

Circulation Fan Speed Control: programmable or manual fan speed control on conditioning unit, from 50% to maximum.

Low Temperature Operation: enables the chamber to be operated with lights ON to +2°C (No fresh air below 4°C.) A defrost cycle will occur resulting in a temperature increase (spike) for temperatures set below +8°C lights ON/OFF.

ULT

Ultra Low Temperature Operation: enables the chamber to be operated with lights ON to -10°C (No fresh air below 4°C.) A defrost cycle will occur resulting in a temperature increase (spike) for temperatures set below +8°C lights ON/OFF.

SDF

Sequential Defrost: multiple cooling coils with a sequenced defrost cycle to eliminate the temperature spike experienced with the standard defrost method.

REFRIGERATION

ACSC

Air-Cooled Self-Contained Condensing Unit: cabinet is supplied with an air-cooled, self-contained condensing unit with hot gas bypass system for continuous compressor operation and close temperature control. Condensing unit is located in the machine compartment.

RAC

Remote Outdoor Air-Cooled Condenser: comes complete with all-weather housing, low ambient operation controls and low noise level operation.

OACU

Outdoor Air-Cooled Condensing Unit: containing condenser, compressor, receiver, suction accumulator, control and pressure regulating valves and electrical disconnect.

WC

Water-Cooled Condensing Unit: cabinet is supplied with a water-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended compressor life and close temperature control.

GIY

Chilled Water/Glycol Heating/ Cooling: cooling system designed to work with a central chiller refrigeration system.

Phenolic Coated Refrigeration Coil: the evaporator coil is protected by a phenolic coating that is resistive to the corrosive effects of insect rearing.

DXII

Refrigerant Cooled Lamp Loft: lamp heat removed by dedicated refrigeration cooling coil.

HUMIDITY

ASNH

Assisted Spray Nozzle Humidification: additive humidity provided by siphon fed, air assisted atomizing spray nozzles. System requires reverse osmosis water.

Spray Nozzle Humidification: additive humidity through use of spray nozzles.

USH

Ultrasonic Humidification: uses an ultrasonic frequency to turn water into an airborne mist that is forced out into the air to raise humidity.

Bypass Dehumidification: a precisely controlled volume of chamber air bypasses the heat exchanger by means of a proportionally controlled air damper.

Dehumidification by Chemical Dryer: chamber air is passed over a desiccant to remove moisture.

Separate Coil Dehumidification: mounted externally, draws air from the growth area through a cooling coil to remove the moisture by condensation.

CARBON DIOXIDE

CO2

CO₂ Additive Control: package includes gas analyzer, CO₂ regulator (NA only), control valve and injection system. CO₂ tank not included.

CO2-BP

CO₂ Additive Back Pack: portable system is mounted on the side of the chamber as a standalone device complete with its own CO₂ process controller.

SCRUB

CO₂ Scrubber: allows for controlling CO₂ concentration levels below resultant conditions. Stand-alone device (floor or roof mounted).



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C € c Management System Certified to ISO 9001

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