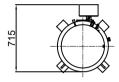
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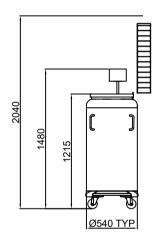
06 01 02 05 04 03

PLAN VIEW

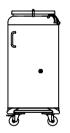


STANDARD ICS CONFIGURATION
"PIE" OR "WEDGE" SHAPED TOWERS
OR
4 OF 10X10 TOWERS
CONTACT QUANTUM CRYOGENICS FOR
INFORMATION ON ALTERNATIVE ICS





FRONT VIEW SHOWING LID CLOSED



SIDE VIEW (DOES NOT SHOW CONTROL BOX)

QUOTED LN2 CAPACITY REFERS TO FULL VOLUME OF LN2 SPACE. TO MAINTAIN TEMPERATURE STABILITY RECOMMEND UNIT IS REFILLED BEFORE REACHING

TECHNICAL SPECIFICATIONS

2ML VIAL CAPACITY (PIE RACKS)

BATTERY BACK UP CAPACITY

SOLENOID VALVE 1

SOLENOID VALVE 2

MANUAL FILL BYPASS

TEMPERATURE SENSOR

LEVEL PROBE

DRAWS PER TOWER

NUMBER OF PIE TOWERS

2 ML VIALS PER DRAW

POWER

- 2. NER IS QUOTED UNDER IDEAL CONDITIONS. IN PRACTICE NER MAY BE MUCH HIGHER DEPENDING ON USE
- 3. IDEAL CONDITIONS
- 15-25°C
- <60% RH
- MAXIMUM SAMPLE LOAD .

24V DC 1 AMP

3/8" BSP 24V DC

3/8" BSP 24V DC

3/8" BSP BALL VALVE

DISCRETE SENSORS

<3 DAVS

- 4. QUOTED HOLD TIME IS BASED ON QUOTED NER AND LN2 CAPACITY. REDUCED LN2 CAPACITY AND HIGHER THAN QUOTED NER WILL RESULT IN REDUCED HOLD TIME.
- MONITOR / RECORD NORMAL USAGE TO ESTABLISH REFILL VOLUME, WORKING NER AND WORKING HOLD TIME.
- 6. FOR DETAILS OF ALTERNTIVE ICS PLEASE CONTACT QUANTUM CRYOGENICS.
- 7. TWIN FAIL CLOSED SOLENOIDS 8. ENSURE FILTER IS USED TO PROTECT SOLENOID VALVES
- 9. WHEN CONNECTTED TO A PIPED SUPPLY ENSURE SUPPLY PRESSURE IS REGULATED TO <2 BAR (30 PSI)
- 10. GAS VENT / PRE-COOL / HOT GAS BYPASS SYSTEM MAY BE REQUIRED. CONTACT QUANTUM CRYOGENICS FOR MORE INFORMATION
- 11. STANDARD SUPPLY HOSE DN12 STAINLESS STEEL 1.5M LONG 1/2"BSPT MALE TO 15MM BALLNOSE 69GHD BOTH ENDS. NITRILE RUBBER FOAM INSULATION WITH PVC WRAP. ALTERNATIVE LENGTH / CONNECTIONS AVAILABLE UPON REQUIEST
- 12. FOR DETAILS OF DATA LOGGING / REMOTE MONITORING / CONTROL OPTIONS PLEASE CONTACT QUANTUM CRYOGENICS
- ENSURE APPROPRIATE VENTILATION AND OXYGEN DEPLETION MONITORING ARE IN PLACE
- 14. FULL WIEGHT BASED ON VESSEL, CONTROL SYSTEM, LN2, ICS AND SAMPLES. FULL WEIGHT MAY VARY DEPENDING ON FINAL SYSTEM CONFIGURATION

			Ø540 MM	EXTERNAL	WIDTH			
			715 MM	EXTERNAL DEPTH				
		N/A (LIF	T OFF LID)	*EXTERNAL DEPTH WITH LID OPEN				
			1215 MM	EXTERNAL HEIGHT				
			1480 MM	*EXTERNAL HEIGHT INC CONTROLLER			LLER	
		N/A (LIF	T OFF LID)	*EXTERNAL HEIGHT WITH LID OPEN				
			2040 MM	MIN RQD CEILING HEIGHT (TO CLEAR TOWER)				
	Ø415 MM			USABLE INTERNAL DIAMETER				
	765 MM			USABLE INTERNAL HEIGHT				
	94 KG			WEIGHT (EMPTY)				
	159 KG			WEIGHT (FULL)				
	30 LITRES			LN2 CAPACITY				
	3 LITRES / DAY			NER (IDEAL CONDITIONS)				
	10 DAYS			MAX HOLD TIME				
	1/2" BSPT			LN2 INLET CONNECTION ON VESSEL				
	1.5±0.5 BAR (22±7 PSI) 4.5 BAR / 66 PSI 5200 13			LN2 SUPPLY PRESSURE				
				PRESSURE RELIEF VALVE SETTING				
				2ML VIAL CAPACITY (SQ RACKS)				
				ROWS PER TOWER				
				NUMBER OF 10X10 TOWERS				
	0			NUMBER OF 5X5 TOWERS				
				F 40	D1.4	_	V007	
	04 09.0		5.19	PM		XXX		

TECHNICAL SPECIFICATIONS

	04	09.05.19	PM	XXX
	03	26.02.14	PM	xxx
	02	25.02.14	PM	xxx
	01	04.10.12	PM	xxx
	REV	DATE	DRAWN	CHECKED

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## **QUANTUM**

CRYOGENICS

UNIT13 LANGLEY BUSINESS PARK WORLD'S END, BERKS, RG20 8RY +44 (0) 1844 339993 SCALE FINISH TOLERANCE DIMS 1:40 @ A4 CLEAN ±1.0 MM

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