DATA SHEET FOR BULK COOLING UNITS						
CAP: 5000L (Scroll)						
Sr.		5000L				
No.	Description	(Three Phase)				
		Closed Type				
Α.	BULK MILK COOLER TANK					
1	Capacity - Rated /Gross	5000/5500				
2	Make and model (SS 304/316)	Serap Industries/ First SC				
3	Material used for construction	AISI 304 (EN 1.4301)				
4	Shape/Orientation	Horizontal-Cylindrical				
	Overall dimensions	(LxØxH: 2950x1772x2285)				
-	Weight without cooling unit	800				
6	Thickness of Inner shell	2.0 mm				
·	Thickness of outer shell	1.5 mm				
7	No. and RPM of agitators	ONE/25 RPM				
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0	CID fo sility (Manual / Arts)	Manual with a provision for cleaning through balanced tank and				
8	CIP facility (Manual / Auto) Insulation:	pump ; Auto (Available as option at extra price)				
9	Insulation:					
		By injection in situ, of high density (min 40 kg /m3), CFC Free				
	Туре	Polyurethane Foam without any imperfection and hygroscopicity				
	Thickness	Minimum 50 mm				
	Efficiency	0,028 W/m.K -The rise of the milk temperature, initially at 4°C, doe not exceed 1°C in 12 hours, in an ambient temperature of 38°C when rated volume is allowed to standstill as per requirement of ISC 5708 (2AII)				
10	Facility to measure milk volume	Dipstick with value table				
В	REFRIGERATION UNIT					
1	Type: DX type					
2	Compressor:	Hermetically sealed				
	Make	Emerson Scroll				
	Туре					
	Model	ZB 48KQ-TFD				
	Nos.	TWO				
3	Condensing Unit :					
	Make	PRIJAY OR SPIROTECH				
	Model	SA 1 RS178 P 150				
	Size					
4	(a)No. of compressors	2 nos.				
	(b) Capacity of the compressors(Kcal/hr)	2 x 13103				
5	(a)No. of condensors fans	2				
(b)Capacity of the condensers		2 x 18909				
		1x (1455x900x880)+				
6	Overall weight & dimensions of the unit	1x (1255x900x880);300 KG				
7	Type of refrigerant	Freon – 22 (R-22)				

С	DESIGN PARAMETERS			
1	Ambient temp. considered for design	38 °C		
2	Maximum cooling time for			
	All Milking	3 hrs from 35 °C - 4 °C		
	Second Milking	1.5 hrs from 10 °C - 4 °C		
3	Temperature range considered for			
	All Milking	35 °C -	35 °C - 4 °C	
	Second Milking	10 °C -	10 °C - 4 °C	
D	ELECTRICALS			
	Supply			
1	Connected load in Watts & Amperes for			
	Compressors	(5750/	/8.3)x2 =750watt/3.5A t / 0.35A Watts	
	Condenser Fans	(375/1.75)x2='		
	BMC Agitator(s)	70 watt		
	BMC Milk Pump	750 W		
	Max surge current drawn by the	Max:17A/LRA: 101A		
	compressors			