



Gachsaran Polymer Industries Company HDPE Plant
Equipment List for Refrigerator Package



PR general comment:
 There are minor discrepancies between the equipment list and data sheets. Please review and correct them to ensure full consistency and accuracy across all documents

MA-01: I think it would be a good idea if you could provide the flow rates (Normal and rated), Design Pressure & Temperature.

029-00

of 3

EQUIPMENT							
ROW	TAG NO.	DESCRIPTION	Q.TY	TECHNICAL DATA	MATERIAL	DESIGN	DESIGN PRESSURE (barg)
1	C-6101 A/B	Screw Compressor	1	Type= Screw 27463 kg/h DP= 17.64 bar, Outlet Pressure= 20.2 bara 3 kW, Power= 1250 kW	Casing= Low Temp Cast Steel (weldable) JIS G5152, SPCL1 Shaft= Cr-Mo Steel Forging JIS G3221, SFCM 930S	-28.89/120	23
2	D-6101	Oil Separator	1	OD x T.L T.L = 1371.6 x 3556.1 mm Operating Condition= 77.1 °C, 20.2 bara	516 GR70N	-45/125	25 + F.V
3	D-6102	Liquid Receiver	1	OD x T.L T.L = 914.4 x 7112 mm Operating Condition= 47.62 °C, 19.65 bara	Body= SA-516 GR70N	-45/125	25 + F.V
4	E-6101	Evaporator	1	Tema Type= BKU ID x L= 1168/1553 x 6096 mm, Area Per Shell= 549.6 m ² Heat Duty= 1759.3 kW, Tube No.= 541U	Shell= SA-516 GR70N Tube= SA-334 GR6	Shell= -45/125 Tube= -45/125	Shell= 25 + F.V Tube= 25 + F.V
5	E-6102	Oil Cooler	1	Tema Type= AEU ID x L= 356 x 4387.85 mm, Area Per Shell= 36.9 m ² Heat Duty= 366.2 kW, Tube No.= 69U	Shell= SA-516 GR70N Tube= SA-179	Shell= -29/125 Tube= -29/190	Shell= 28 + F.V Tube= 28
6	E-6103	Economizer	1	Tema Type= BEN ID x L= 381 x 2438.4 mm, Area Per Shell= 25.4 m ² Heat Duty= 394.9 kW, Tube No.= 180	Shell= SA-516 GR70N Tube= SA-334 GR6	Shell= -45/125 Tube= -45/125	Shell= 25 + F.V Tube= 25 + F.V
7	E-6104	Condenser	1	Tema Type= BJM ID x L= 1070 x 6000 mm, Area Per Shell= 557.3 m ² Heat Duty= 2626.9 kW, Tube No.= 1598	Shell= SA-516 GR70N Tube= SA-334 GR6	Shell= -45/120 Tube= -29/190	Shell= 25 + F.V Tube= 28
8	EH-6101	Oil Heater	1	ID x SM-SM = 1371.6 x 3332 mm Operating Condition= 77.7 °C, 19 barg Heating Capacity= 9 kW	304 SS	125	25 + F.V
9	F-6101 A/B	Oil Filter	2	Type= Cartridge OD x T.L T.L = 12" x 914.4 mm	Body= ASTM A312 Gr. 304L Element= Fiber / Stainless Steel	-28.9/121.1	28 + F.V
10	F-6102	Ppropylene Filter/Dryer	1	Type= Molecular Sieve OD x T.L T.L = 14" x 1016 mm	Body= SA-516 GR70N Element= Stainless Steel	-45/125	25.5 + F.V
11	P-6101 A/B	Oil Pump	2	Type= Twin Screw Rated Flow= 241 LPM DP= 3.5, Outlet Pressure= 22.6 barg BHP= 5.1 kW, Power= 11 kW	Casing= Spheroidal Graphite Iron JIS G5501, FC300 End Plates= Spheroidal Graphite Iron JIS G5501, FC300	125	28