

Equipment List

600 TPD Plant

Component	Manufacturer	Model No.	Serial No.	Notes
Air Inlet Filter House	Dollinger	AI-128-V-1400-480		
Main Air Compressor - BLAC 1	Cooper Industries	4MSGEP9A	F10295	<ul style="list-style-type: none"> • 4 stage • Radial • Integrally geared
Main Air Compressor - BLAC 2	Cameron/Cooper	4MSGEP9A	F10296	
MAC Motors	GEC	Frame 710G1800P	N44044201, N44044202	<ul style="list-style-type: none"> • TEWAC • F Class • 8000 HP • 1800 RPM
MAC Aftercooler	Basco	70/64216		<ul style="list-style-type: none"> • Shell MAWP - 350 psig • Tube MAWP - 150 psig • 2-stage
Evaporative Cooler	Augusta Fiberglass			• 8.5' x 37' 2-slage
Chilled Water Pump	Goulds	3196MTX		• 3 x 4x - 8G
Pre-Purifier Vessels	Dacro			• 12' dia, x 10.5 ' s-s
Pre-Purifier Dust Filter	NAFCO	43200-1136B/SPL		• MAWP - 350 psig @ 450 °F
Regeneration Heater	Gastech			• 3.57 mm btu/hr.
Primary Heat Exchanger	Sumitomo			
Nitrogen Superheater	Sumitomo			
O ₂ Boiler	Sumitomo			
Expander/Booster	Praxair	CDB-304		<ul style="list-style-type: none"> • Radial • Single sha
Turbine Booster Shell and Tube Aftercooler	BASCO	BEP29156		
Booster Air/Booster N ₂ Compressor	Ingersoll Rand	3CHB1B2	M95-8651	<ul style="list-style-type: none"> • 1st - 2nd stages - BAC • 3rd stage - BNC • Radial • Integrally geared
Air Booster Shell and Tube Aftercooler	BASCO	BEP 16156		
N ₂ Booster Shell and Tube Aftercooler	Basco	BEP 10150		
Baseload Nitrogen Compressor	Ingersoll-Rand	2ASB40M3		
BLNC Aftercooler	BASCO	BEP10150		
BLNC Motor	Siemens	Frame 5810S		<ul style="list-style-type: none"> • 1500 HP • 3573 RPM • F Class • Type CGII
BNC Motor	Siemens	Frame 5810		<ul style="list-style-type: none"> • 1250 HP • 3573 RPM • F Class • Type CGII
O ₂ Product Boiler Pumps	Cryomach			• two (2) 1.5 x 2.5 x 10.5
Argon Transfer Pump	Cryomach			• 1.5 x 25 x 10.5
O ₂ Downflow Main Condenser Pumps (2)	Lawrence			<ul style="list-style-type: none"> • 8 x 6 x 16 ver cal turbine • Ver cal turbine pump • 880 GPM design
Downflow Main Condenser	Sumitomo			• 48" x 48" x 240"
Argon Condenser (2)	Sumitomo			

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Argon Re-condenser	Sumitomo			
Pressure Building Coil for Argon Bulk Tank	Thermax	TF208-HP-I'B		
LO ₂ Storage Tank	PDM	LR-60		
O ₂ Liquid Backup System Pump (2)	Cryomach			• 1.5 x 2.5 x 105
High Pressure O ₂ tank		TM6000		
Argon Bulk Tank		TL-13,000		
O ₂ /N ₂ Liquid Backup System	Cryoequip	WCVB-26-19-5		
Vaporizer/Pressure Building Coil for High Pressure O ₂ /N ₂ Tanks				
Hot water Heaters for Vaporizer (2)	Sellers	S-300-W		
LN ₂ Storage Tank	PDM	LR-60		
N ₂ Liquid Backup System Pumps (2)	Lawrence			• 1.5 x 2 - 9 ver cal turbine pumps
High Pressure N ₂ Tank		TM13,000		
Cooling Tower	GEA - Thermal Dynamic	TDJOJO-2-Z027CF		• sized for 6500 GI'M
Cooling Water Pump (2)	Goulds	3410L		• 10 x IZ- 17
Drain Vaporizer	J.D. Cousins			• 54" dual ring
Nitrogen Chill Tower	Augusta Fiberglass			
SF ₆ Gas Breaker	Siemens			• 1200 amp • Type SPS-38-31.5-1200
Backup Generator	Caterpillar		Gen S/N 6FA11170 Eng S/N 7DB01191	• 300 KW • Supplied with 180 KW Southworth-Milton Load Bank
PDC Building	Athinson			• 60' x 14' 6", with (2) AC units