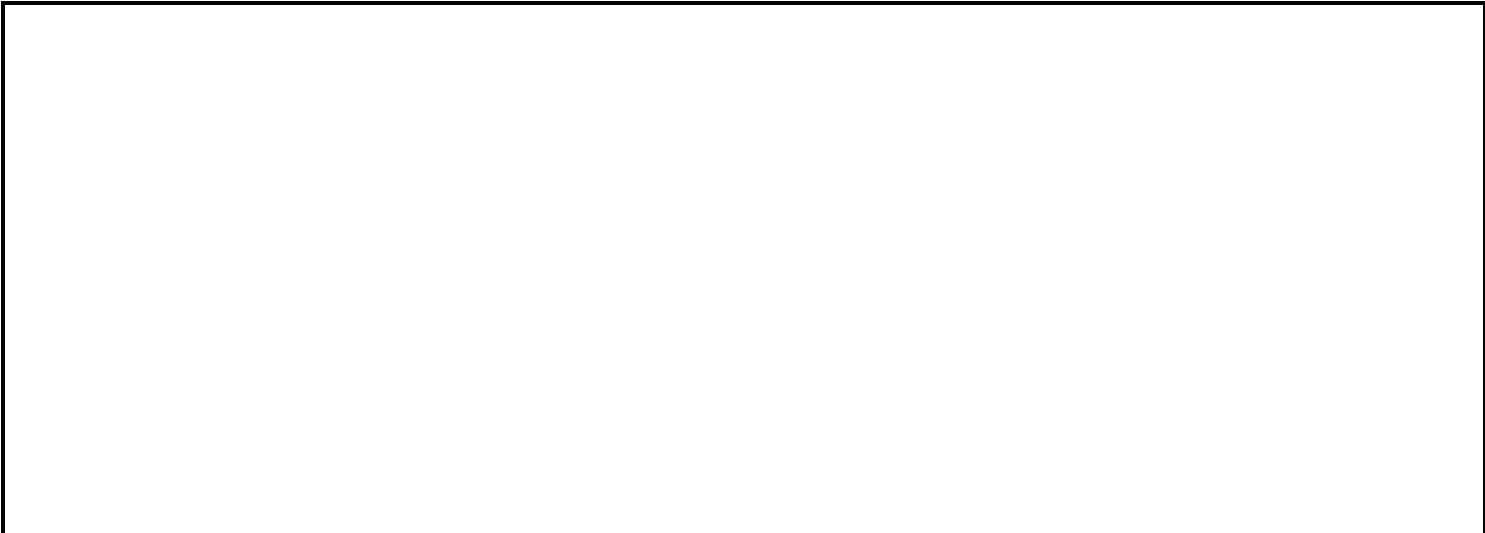
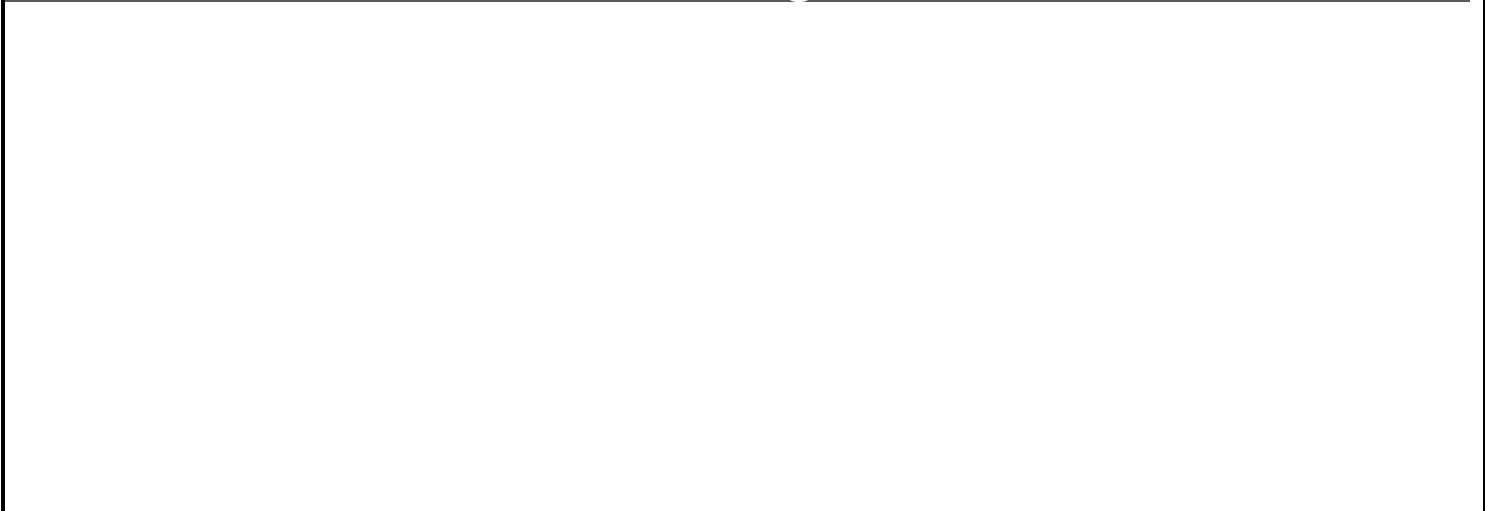


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Document Title:
Data Sheet for Air Compressor package
Dewatering Area



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Rev.	Date	Description	Prepared	Checked	Approved	Authorized

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2	X							32							
3	X							33							
4	X							34							
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7	X							37							
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DATASHEET FOE AIR COMPRESSOR

1. PROJECT DATA			
Equipment Name:	Air Compressors Package	Installed Location:	-
Tag Number:	CM 3-40-1801-03~10	QTY Required:	8 (6+2)
Applicable to:	☐ PROPOSAL ☒ PURCHASE ☐ AS PURCHASED		
Client:	-		
Manufacturer:	ACC TO AVL	Regulations:	Service: 24 hrs per day, 7 days per week , 320 days per year
Model / Size.	VTS		

2. SITE CONDITIONS					
1	Location:	☒ Indoor ☐ Outdoor	7	Humidity Min/Max	23% / 70%
2	Maximum outdoor	+35 °C	8	Humidity Average @ 33°C	30%
3	Minimum outdoor	-20 °C	9	Elevation, MASL	2500
4	Maximum design temperature	+40 °C	10	Area Classification	Safe Area
5	Minimum design (indoor)	5 °C	11	Wind	130 Km/h
6	Barometric Pressure	564.4 mmHg	12	Earthquake	UBC Zone 3

3. OPERATING CONDITIONS (PROCESS DATA)					
1	Gas Compressed	Air	5	Discharge Pressure, (barg)	8.5
2	Cp/Cv, K1	1.4	6	Discharge Temperature (Max.), °C	VTS
3	Molecular Weight	28.96	7	maximum discharge pressure (barg)	10.75
4	Inlet Temperature (Min. /Max.) °C	5/40	8	dew point temperature	14.6°C

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4. COMPRESSORS DATASHEET (CM 3-40-1801-03~10)

1	Type of compressor	Oil inject screw	16	Speed, RPM	VTs
2	Capacity (Nm ³ /min)	30	17	No. of Stages	VTs
3	Inlet Pressure, (mm HG)	564.4	18	Design Code	MFR STD.
4	Flow rate at the end of each compressor (Nm ³ /min)	VTs	19	Corrosion Allowance, mm	Acc to Doc. No. 12002-D-ME- MRQ-303-AIR-799
5	Design pressure (barg)	10.75	20	design temperature (°C)	VTs
6	Power transmission system	Gear box	21	Type of air end	rotary screw air end
7	Manufacturer of air end	VTs	22	Model of air end	VTs
8	Compressed air purity classes	3	23	Noise Limit, dBA	85 @1 m
9	Oil Concentration of each compressor mg/m ³	≤1	24	Isentropic Power (KW)	176.4
10	Max Particle Size, Mic./ Particle Density mg/m ³	5 μm	25	Efficiency (%)	VTs
11	Duty	6+2 (operating + Standby)	26	Installed Power (KW)	400 (VTC)
12	Bearings Type:	VTs	27	Rotor Material	VTs
13	Bearings Life Time (hr)	VTs	28	Shaft Material	VTs
14	Radial Bearings	VTs	29	Casing Material	VTs
15	Trust Bearings	VTs	30	Gears Material	VTs

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4.1. COMPRESSOR ANCILLARIES

1	Cooling System Type:		☐ Natural Air Cooled ☒ Forced Air Cooled ☐ Water cooled	8	☒ Air Inter cooler Type	-
2	Forced Air Cooling by:		☐ Shaft ☒ Aux. Electric Motor	9	Air After cooler, Type	Air cooler
				10	☐ Discharge Silencer, Type	VTS
				11	☐ Thermal Relief Valve, No. Req'd.	-
				12	☐ Discharge Check Valve	VTS
3	No. of Oil Pumps	Main	Aux.	13	☐ Moisture Separator with automatic drain	One
		VTS	VTS			
4	Safety mixing thermostat for high		VTS	14	☒ Air relief valve for over pressure, type	VTS
5	☒ Inlet Air Filter, Type		DRY	15	Location	On-Skid
6	☒ Inlet Silencer, Type		VTS	16	☒ Local Controller With HMI	One Each Comp.
7	☐ Suction Regulator, Type		-	17	☒ Differential pressure	VTS

4.2. LUBRICATION SYSTEM

1	Lube System STD.	MFR. STD.	9	Oil Cooler:	☒ Single ☐ Duplex
2	Lube System For	Air end + Accessories	10	Oil Cooler type:	☒ Air Cooled ☐ Water Cooled
3	Oil Type / ISO Grade	VTs	11	Oil Filter:	☒ Single ☐ Duplex
4	Main Pump Drive/Rating, KW	-	12	Filtration Degree, Mic.	VTs
5	Aux. Pump Drive/Rating, KW	-	13	Oil filter Type	VTs
6	Reservoir Capacity, Lit.	VTs	14	level indicator for oil	VTs
7	Reservoir Material	VTs	15	☐ Relief Valve, No. Req'd.	VTs
8	Solenoid valve	-	16	☐ Oil Pump Temperature Indicator	-

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4.3. NOZZLES						4.4. WEIGHTS & DIMENSIONS		
1		Size	Rating	Facing	Position	6	Compressor, Kg	VTs
2	Suction	VTs	VTs	VTs	VTs	7	Electric Motor, Kg	VTs
3	Discharge	VTs	150#	RF	VTs	8	Total, Kg	VTs
4	Vent	VTs	150#	RF	VTs	9	Heaviest Maintenance Lift, Kg	VTs
5	Drain	VTs	150#	RF	VTs	10	L x W x H, mm	VTs

4.5. UTILITIES							
Electricity:					Cooling Water: not available		
		Power	Heater	Control	4	Press., psig (barg)	Temp, °C
1	Voltage	6600 V	230 V	230V	5	Flow Rate	-
2	Phase	3	1	1	6	Instrument Air:	-
3	Frequency	50	50	AC	7	Press., (barg)	-

4.6. INSTRUMENTATION AND CONTROL (NOTE 16)							
1	Load/Unload Control:	start/stop on disch. Pressure	16	Service	Alarm	Shutdown	
2	Each Compressor Control Panel	microprocessor base	17	Temperature transmitter & Pressure transmitter		As per approved P&ID	
3	Protection Degree	LCS: min IP55	18	Low LO Pressure	●	○	
4	Local Board	on control panel	19	High Discharge Pressure	●	○	
5	Area Classification	non-hazardous	20	High High Disch. Temp.	○	●	
6	Local HOA Push Button	required	21	High Discharge Temp.	○	●	
7	Timer	Include controller	22	Low-Low LO Disch. Press.	○	●	
8	Local Operation	Required	23	High-High Disch. Pressure	○	●	
9	Temperature Gauge	as per approved P&ID	24	Interfaces of compressors local board with Sequencer panel		<u>Hardwire</u>	
10	Pressure Gauge	as per approved P&ID	25	Remote Ready	YES	Serial Link	
11	Pressure Safety Valve	as per approved P&ID	26	Running Status	YES	Serial Link	
12	Auto Drain	It shall be mentioned in spec of vendor (as per P&ID)	27	Starter No Fault	YES	Serial Link	
13	Differential Pressure Gauge	as per approved P&ID	28	Remote Start/Stop	YES	Serial Link	
14	Other instruments	as per approved P&ID	29	Important Monitoring Signals as per Manufacture Standard	YES	Serial Link	
15	Anti-condensation heater Ventilation Fans	For Panels c/w thermostat control					

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4.7. MOTOR DATA

1	Power supply	3 Phase, 6.6±10% KV, 50±5% Hz	4	Manufacturer	ACC TO AVL
2	Ingress Protection	IP 55	5	Insulation Class	F
3	Starting method	DOL	6	Temperature Rise	B

5. OILSEPARATOR

1	Separator Type:	VTs	5	Design Temp. (°C):	150(VTC)
2	Service Life	VTs	6	Pressure Relief Device	VTs
3	Design Pressure	VTs	7	Separator Efficiency (%):	VTs
4	Material	VTs	8	Manufacturer / Model:	VTs

6.WATER TRAP (WT 3-40-1825-03~10)

1	No. Required:	VTs	5	Manufacturer	VTs
2	Design capacity	VTs	6	Model	VTs
3	Design Temp.	VTs	7	Efficiency	VTs
4	Design Pressure (barg):	VTs	8	Materials:	VTs

7. DRYER (AD 3-40-1821-03~06)

1	Dryer Quantity Package	2 duty+2 standby (Each Twine)	10	Regeneration air (%)	%15(VTC)
2	Kind of drying	heatless	11	Residual water content (g/m3/0	VTs
3	Number of Column	2		Accessories:	
4	Under pressure dew point	-40 °C	12	Pressure Safety valve	yes
5	Maximum Inlet Flow rate (FAD) , m³/hr	VTs	13	Pressure Indicator	yes
6	Design Temp. / Press. (°C /barg)	VTs	14	solenoid valves	yes
7	Outlet Flow Rate, Nm³/min	30	15	Local board	yes
8	Type Of absorbent	VTs	16	Pressure switch	If required
9	standard of Vessels	ASME Code Sec.VIII, Div.I	17	Cycle time	VTs

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8. AIR-FILTER (3-40-1822-07/08/11/12)

1	Quantity	2 operating+2 standby	7	Manufacturer / Model	VTs
2	Design Code:	VTs	8	Cartridge / Element Type:	VTs
3	Design Press. barg	VTs	9	Design Capacity	As per P&ID
4	Design Temp. (°C)	VTs	10	Materials	VTs
5	Filtration Mesh (Micron)	VTs	11	DPI	Required
6	Type of Filter	VTs	12	Automatic Drain	Required

9. OIL FILTER (3-40-1822-09/10/13/14)

1	Quantity	2 operating +2 standby	8	Manufacturer / Model	VTs
2	Design Code:	VTs	9	Model	VTs
3	Design Press. barg	VTs	10	Cartridge / Element Type:	VTs
4	Design Temp. (°C)	VTs	11	Design Capacity	As per P&ID
5	Filtration Mesh (Micron)	VTs	12	Materials	VTs
6	Type of main Filter	VTs	13	DPI	Required
7	Type of Filter	VTs	14	Automatic Drain	Required

10. WET COMPRESSED AIR RECEIVER FOR PLANT AIR (3-40-1820-05/07/09/10)

1	Quantity	4		Accessories:	
2	Type	Vertical	13	Pressure Transmitter	No
3	Volume (m³)	25 (VTs)	14	Pressure Safety valve	yes
4	Operating pressure (barg)	8.5	15	Pressure Indicator	yes
5	Design Pressure (barg)	10.75 (VTs)	16	Temperature Indicator	yes
6	Hydro Test Pressure (barg)	14	17	Discharge condensate solenoid valve with manual valve for bypass	yes
7	Design Code	ASME Code Sec.VIII, Div.I			
8	Shell Internal diameter (m)	2.25 (VTC)	18	Shell height (m)	6 (VTC)
9	Head type	Elliptical	19	Joint efficiency for shell	0.85 (VTC)
10	Joint efficiency for head	1 (VTC)	20	Support type	VTs
11	Shell thickness (mm)	14 (VTC)	21	Head thickness (mm)	12 After forming (VTC)
12	Corrosion allowance (mm)	3	22	Material	A516 Gr 70 (VTC)

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11. DRY COMPRESSED AIR RECEIVER FOR INSTRUMENT AIR (3-40-1820-06/08)					
1	Quantity	2	Accessories:		
2	Type	Vertical	13	Pressure Transmitter	No
3	Volume (m³)	25 (VTC)	14	Pressure Safety valve	yes
4	Operating pressure (barg)	8.5	15	Pressure Indicator	yes
5	Design Pressure (barg)	10.75 (VTS)	16	Temperature Indicator	yes
6	Hydro Test Pressure (barg)	14	17	Discharge condensate solenoid valve with manual valve for bypass	yes
7	Design Code	ASME Code Sec.VIII, Div.I			
8	Shell Internal diameter (m)	2.25 (VTC)	18	Shell height (m)	6 (VTC)
9	Head type	Elliptical	19	Joint efficiency for shell	0.85 (VTC)
10	Joint efficiency for head	1 (VTC)	20	Support type	VTS
11	Shell thickness (mm)	14 (VTC)	21	Head thickness (mm)	12 After forming (VTC)
12	Corrosion allowance (mm)	3	22	Material	A516 Gr 70 (VTC)

12.INSPECTION AND TESTING			13. BASEPLATE		
1	Shop Inspection	●	8	Baseplate for:	Decked With Non-slid Deck Plate
2	Performance Test	●			
3	Hydro test	●			Open Construction Dr ip Rim
4	Mech. Running Test	●			Anchor Bolts /Expansion Bolts
5	Noise level test	●			
6	RT, PT	●	9	Baseplate Material:	STEEL
7	Certificates & Test Report	●			

NOTES:

- 1- For Technical Specification for Package Units Please Refer To 12002-D-El-Spc-303-Gnl-014
- 2- For the Technical Specification for Package Units please refer to 12002-D-EL-DSH-303-GNL-040
- 3- To see applicable codes and standards of each part of compressor package refer to doc.: list of codes and standards (28c3-d-4in-lst-090-0000-00-me-002)
- 4- to see required applicable standard refer to document NO.: 28C3-D-4IN-LST-090-0000-00-ME-002- List of Codes And Standards
- 5- VTS: Vendor to specify
- 6- VTC: Vendor to confirm
- 7- WFL: Will be finalized later