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Data Sheet for Air Blower package -Air Area

02	23.09.2025	Issued For Approval				
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1. AIR BLOWER FOR ROUGHER CELLS PHASE 3&4

No.	Description	Units	Value
1	General data		
1-1	Quantity total/ Each phase (Operation & standby)	#	4 / 2(1 Operational & 1 Standby)
1-2	Tag No. / Location (indoors/ outdoors)	-	BL 3&4-40-1810-01/02/ Indoor
1-3	Application Description	-	AIR BLOWER FOR ROUGHER CELLS
1-4	Site Condition		Refer to "4-12002-D-PR-DOC-303-GNL-001"
Process / Operating Conditions			
2	Material Processed		
2-1	Type	-	Centrifugal Multi-stage (VTC)
2-2	Air Condition and Altitude or Gas Analysis	-	ALTITUDE 2500m
2-3	Service	-	Continuous
2-4	Gas Flow (Max)	Nm ³ /h	VTS
2-5	Gas Flow (Typical)	Nm ³ /h	35000 (VTC)
2-6	Pressure Inlet	bar	WFL (Will be finalized after receiving the flotation cell vendor data's)
2-7	Pressure Outlet	kPa	65 (VTC)
2-8	Temperature Inlet	°C	5-40
2-9	Relative Humidity (Max.)	%	70
2-10	Cooling Water supply Pressure	kPa	2-3 (VTC)
2-11	Cooling Water supply Temperature	°C	≤32 (VTC)
2-12	Cooling Water return Pressure	kPa	2-3 (VTC)
2-13	Cooling Water return Temperature	°C	~45 (VTC)
2-14	efficiency	%	VTS

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No.	Description	Units	Value
mechanical information			
3	Technical specs		
3-1	Model	-	VTs
3-2	Air/Gas Discharge Temperature	°C	≤100 (VTC)
3-3	Maximum Allowable Discharge Temperature	°C	VTs
3-4	Maximum Discharge Pressure	kPa	VTs
3-5	Rotation Viewed from Driving End	-	Clockwise (VTC)
3-6	Suction NB	-	VTs
3-7	Delivery NB	-	VTs
3-8	By-Pass NB	-	VTs
3-9	Water Connection Tapping	-	VTs
3-10	Pressure Gauge Tapping	-	M20x1.5 (VTC)
3-11	Bearing Type	-	rolling bearing (VTC)
3-12	Lubrication Type	-	Thin oil lubrication (VTC)
3-13	Gas Seal Type	-	labyrinth seal (VTC)
3-14	By Pass Valve Type	-	manual butterfly valve (VTC)
3-15	Baseplate Type	-	common- base (VTC)
3-16	Blower Speed	rpm	2980 (VTC)
3-17	Maximum Allowable	rpm	VTs
3-18	Starting Torque at Blower Shaft	Nm	VTs
3-19	Torque Required at Rates Speed	Nm	VTs
3-20	Driven Shaft Extension	-	VTs
3-21	Driven Shaft diameter and Limits	-	VTs
3-22	Coupling Type	-	diaphragm coupling (VTC)
3-23	Coupling Makers, No	-	VTs

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No.	Description	Units	Value
3-24	Impeller Inertia	-	VTS
3-25	Lubricating Oil Capacity	-	4L (VTC)
3-26	Lubricating Oil Consumption	m ³ /h	VTS
4	Materials of construction (casing)		
4-1	Casing Studs and Bolts	-	VTS
4-2	Casing Covers	-	HT250 (VTC)
4-3	Rotors	-	VTS
4-4	Rotor Blades	-	ZL (VTC)
4-5	Rotor Shaft	-	45/35CrMo (VTC)
4-6	Gas Seals	-	ZL104/HT200/45 (VTC)
4-9	Gears	-	VTS
5	Materials of construction (pedestal)		
5-1	Baseplate	-	Q235 (VTC)
5-2	Coupling Guard	-	Q235 (VTC)
5-3	By - Pass Connection	-	Q235 (VTC)
5-4	By - Pass Valve Body	-	HT (VTC)
5-5	By - Pass Valve Trim	-	HT (VTC)
5-6	Gas Seals	-	VTS
5-7	Gear Case	-	VTS
6	Auxiliaries		
6-1	Requirement of Expansion joints at Either End	#	Yes or no (VTS)
6-2	Non return Flap	-	Yes (VTC)
6-3	Safety relief valve	-	Yes (VTC)
6-4	Pressure gauge	-	Yes
6-5	Requirement of ventilation fan in the acoustic	-	no (VTS)

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No.	Description	Units	Value
6-6	Condensate Discharge	-	no (VTS)
6-7	Heat Insulation	-	Yes or no (VTS)
6-8	Oil Filter Type	-	VTS
6-9	Oil Coolers Type	-	VTS
6-10	Oil Pump Type	-	VTS
6-11	Aux Oil Pump	-	VTS
6-12	Driver	-	VTS
6-13	Pressure purging valve		Yes
6-14	Temperature Gauge		Yes
6-15	Suction/ Discharge Silencer		Yes (VTS)
6-16	Discharge Damper		Yes (VTS)
6-17	Blow off valve		Yes (VTS)
7	Masses		
7-1	Machine Mass (Inclusive base frame)	kg	VTS
7-2	Motor Mass	kg	VTS
7-3	Gearbox mass	kg	VTS
7-4	Overall mass	kg	VTS
I&C information			
8	Pressure Gages		
8-1	Pressure Gages	-	YTN-100B (VTC)
8-2	Suction	-	VTS
8-3	Discharge	-	VTS
8-4	Oil	-	VTS
9	Thermometers		
9-1	Discharge	-	VTS
9-2	Bearings	-	VTS

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No.	Description	Units	Value
9-3	Oil	-	VTs
9-4	Type	-	PT100 (VTC)
10	High Discharge Temperature Alarm		
10-1	Alarm	-	High Discharge Temp. (VTC)
10-2	Trip	-	High-High Discharge Temp. (VTC)
10-3	Type	-	VTs
11	Low Oil Pressure Alarm		
11-1	Alarm	-	Low discharge pressure (VTC)
11-2	Trip	-	Low-Low discharge pressure (VTC)
11-3	Type	-	VTs
12	High Bearing Temperature Alarm		
12-1	Trip	-	Alarm@ 90°C (VTC)
12-2	Type	-	VTs
13	other		
13-1	Panel required	-	Required
13-2	Local Operation Pressure from DCS	-	Required
13-2-1	Motor Speed Indication	-	Yes, by PROFIBUS (VTC)
13-2-2	EDS	-	Yes, by PROFIBUS (VTC)
13-2-3	Start/Stop	-	Yes, by PROFIBUS (VTC)
13-2-4	All Alarms (included fault)	-	Yes, by PROFIBUS (VTC)
13-2-5	Local Operating Permission	-	Yes, by PROFIBUS (VTC)
13-3	Motor Control Panel IP	-	54
13-4	Outdoor Control Panel IP	-	54
13-5	Auto Start/Stop	-	Required
13-6	Local HOA Push Button		Required
13-7	Anti-condensation Heater		for each panel by thermostat (VTC)
Electrical Data (Note 4,5)			
14	Manufacturer		According to Approved Vendor List (AVL)

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No.	Description	Units	Value
14.1	Type Of Electro-motor		Variable frequency motor
14.2	Installed Power	kW	1400 (VTC)
14.3	Voltage	kV	6.6
14.4	Phase	Ø	3
14.5	Frequency	Hz	50
14.6	Speed	(r/min)	2980 (VTC)
14.7	Sound Pressure Level	Db	<85 @ 1 m distance from pump
14.8	Insulation Class		F
14.0	Temperature Class		B
14.10	Safety Class		IP 55

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2. AIR BLOWER FOR CLEANER CELLS

No.	Description	Units	Value
1	General data		
1-1	Quantity total/ Each phase (Operation & standby)	#	4 / 2 (1 Operational & 1 Standby)
1-2	Tag No. / Location (indoors/ outdoors)	-	BL 3&4-40-1810-03/4/Indoor
1-3	Application Description	-	AIR BLOWER FOR CLEANER-SCAVENGER CELLS
1-4	Site Condition		Refer to "4-12002-D-PR-DOC-303-GNL-001"
Process / Operating Conditions			
2	Material Processed		
2-1	Type	-	Centrifugal Multi-stage (VTC)
2-2	Air Condition and Altitude or Gas Analysis	-	ALTITUDE 2500m
2-3	Service	-	Continuous
2-4	Gas Flow (Max)	Nm ³ /h	VTS
2-5	Gas Flow (Typical)	Nm ³ /h	10000 (VTC)
2-6	Pressure Inlet	bar	WFL (Will be finalized after receiving the flotation cell vendor data's)
2-7	Pressure Outlet	kPa	55 (VTC)
2-8	Temperature Inlet	°C	5-40
2-9	Relative Humidity (Max.)	%	70
2-10	Cooling Water supply Pressure	kPa	2-3 (VTC)
2-11	Cooling Water supply Temperature	°C	≤32 (VTC)
2-12	Cooling Water return Pressure	kPa	2-3 (VTC)
2-13	Cooling Water return Temperature	°C	~45 (VTC)
2-14	efficiency	%	VTS
mechanical information			

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No.	Description	Units	Value
3	Technical specs		
3-1	Model	-	VTS
3-2	Air/Gas Discharge Temperature	°C	≤100 (VTC)
3-3	Maximum Allowable Discharge Temperature	°C	VTS
3-4	Maximum Discharge Pressure	kPa	VTS
3-5	Rotation Viewed from Driving End	-	Clockwise (VTC)
3-6	Suction NB	-	VTS
3-7	Delivery NB	-	VTS
3-8	By-Pass NB	-	VTS
3-9	Water Connection Tapping	-	G1 (VTC)
3-10	Pressure Gauge Tapping	-	M20x1.5 (VTC)
3-11	Bearing Type	-	rolling bearing (VTC)
3-12	Lubrication Type	-	Thin oil lubrication (VTC)
3-13	Gas Seal Type	-	labyrinth seal (VTC)
3-14	By Pass Valve Type	-	manual butterfly valve (VTC)
3-15	Baseplate Type	-	common- base (VTC)
3-16	Blower Speed	rpm	2980 (VTC)
3-17	Maximum Allowable	rpm	VTS
3-18	Starting Torque at Blower Shaft	Nm	VTS
3-19	Torque Required at Rates Speed	Nm	VTS
3-20	Driven Shaft Extension	-	VTS
3-21	Driven Shaft diameter and Limits	-	VTS
3-22	Coupling Type	-	diaphragm coupling (VTC)
3-23	Coupling Makers, No	-	VTS
3-24	Impeller Inertia	-	VTS

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No.	Description	Units	Value
3-25	Lubricating Oil Capacity	-	4L (VTC)
3-26	Lubricating Oil Consumption	m ³ /h	VTS
4	Materials of construction (casing)		
4-1	Casing Studs and Bolts	-	VTS
4-2	Casing Covers	-	HT250 (VTC)
4-3	Rotors	-	VTS
4-4	Rotor Blades	-	ZL (VTC)
4-5	Rotor Shaft	-	45/35CrMo (VTC)
4-6	Gas Seals	-	ZL104/HT200/45 (VTC)
4-9	Gears	-	VTS
5	Materials of construction (pedestal)		
5-1	Baseplate	-	Q235 (VTC)
5-2	Coupling Guard	-	Q235 (VTC)
5-3	By - Pass Connection	-	Q235 (VTC)
5-4	By - Pass Valve Body	-	HT (VTC)
5-5	By - Pass Valve Trim	-	HT (VTC)
5-6	Gas Seals	-	VTS
5-7	Gear Case	-	VTS
6	Auxiliaries		
6-1	Requirement of Expansion joints at Either End	#	Yes or no (VTS)
6-2	Non return Flap	-	Yes (VTC)
6-3	Safety relief valve	-	Yes (VTC)
6-4	Pressure gauge	-	Yes
6-5	Requirement of ventilation fan in the acoustic	-	no (VTS)
6-6	Condensate Discharge	-	no (VTS)

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No.	Description	Units	Value
6-7	Heat Insulation	-	Yes or no (VTS)
6-8	Oil Filter Type	-	VTS
6-9	Oil Coolers Type	-	VTS
6-10	Oil Pump Type	-	VTS
6-11	Aux Oil Pump	-	VTS
6-12	Driver	-	VTS
6-13	Pressure purging valve		Yes
6-14	Temperature Gauge		Yes
6-15	Suction/ Discharge Silencer		Yes (VTC)
6-16	Discharge Damper		Yes (VTC)
6-17	Blow off valve		Yes (VTC)
7	Masses		
7-1	Machine Mass (Inclusive base frame)	kg	VTS
7-2	Motor Mass	kg	VTS
7-3	Gearbox mass	kg	VTS
7-4	Overall mass	kg	VTS
I&C information			
8	Pressure Gages		
8-1	Pressure Gages	-	YTN-100B (VTC)
8-2	Suction	-	VTS
8-3	Discharge	-	VTS
8-4	Oil	-	VTS
9	Thermometers		
9-1	Discharge	-	VTS
9-2	Bearings	-	VTS
9-3	Oil	-	VTS

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No.	Description	Units	Value
9-4	Type	-	PT100 (VTC)
10	High Discharge Temperature Alarm		
10-1	Alarm	-	High Discharge Temp. (VTC)
10-2	Trip	-	High-High Discharge Temp. (VTC)
10-3	Type	-	VTS
11	Low Oil Pressure Alarm		
11-1	Alarm	-	Low discharge pressure (VTC)
11-2	Trip	-	Low-Low discharge pressure (VTC)
11-3	Type	-	VTS
12	High Bearing Temperature Alarm		
12-1	Trip	-	Alarm@ 90°C (VTC)
12-2	Type	-	VTS
13	other		
13-1	Panel required	-	Required
13-2	Local Operation Pressure from DCS	-	Required
13-2-1	Motor Speed Indication	-	Yes, by PROFIBUS (VTC)
13-2-2	EDS	-	Yes, by PROFIBUS (VTC)
13-2-3	Start/Stop	-	Yes, by PROFIBUS (VTC)
13-2-4	All Alarms (included fault)	-	Yes, by PROFIBUS (VTC)
13-2-5	Local Operating Permission	-	Yes, by PROFIBUS (VTC)
13-3	Motor Control Panel IP	-	54
13-4	Outdoor Control Panel IP	-	54
13-5	Auto Start/Stop	-	Required
13-6	Local HOA Push Button		Required
13-7	Anti-condensation Heater		for each panel by thermostat (VTC)
Electrical Data (Note 4,5)			
14	General information		
14.1	Type Of Electro-motor		variable frequency motor

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No.	Description	Units	Value
14.2	Installed Power	kW	355 (VTC)
14.3	Voltage	kV	6.6
14.4	Phase	∅	3
14.5	Frequency	Hz	50
14.6	Speed	r/min	2980
14.7	Sound Pressure Level	Db	<85 @ 1 m distance from pump
14.8	Insulation Class		F
14.9	Temperature Class		B
14.10	Safety Class		IP 55

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3. AIR BLOWER FOR RE-CLEANER & RE-RE-CLEANER

No.	Description	Units	Value
1	General data		
1-1	Quantity total/ Each phase (Operation & standby)	#	4 / 2 (1 Operational & 1 Standby)
1-2	Tag No. / Location (indoors/ outdoors)	-	BL 3&4-40-1810-05/6 /Indoor
1-3	Application Description	-	AIR BLOWER FOR RE-CLEANER & RE-RE-CLEANER CELLS
1-4	Site Condition		Refer to "4-12002-D-PR-DOC-303-GNL-001"
Process / Operating Conditions			
2	Material Processed		
2-1	Type	-	Multi-stage Centrifugal (VTC)
2-2	Air Condition and Altitude or Gas Analysis	-	Altitude 2500m
2-3	Service	-	Continuous
2-4	Gas Flow (Max)	Nm ³ /h	VTS
2-5	Gas Flow (Typical)	Nm ³ /h	2400 (VTC)
2-6	Pressure Inlet	bar	WFL (Will be finalized after receiving the flotation cell vendor data's)
2-7	Pressure Outlet	kPa	25 (VTC)
2-8	Temperature Inlet	°C	5-40
2-9	Relative Humidity (Max.)	%	70
2-10	Cooling Water supply Pressure	kPa	2-3 (VTC)
2-11	Cooling Water supply Temperature	°C	≤32 (VTC)
2-12	Cooling Water return Pressure	kPa	2-3 (VTC)
2-13	Cooling Water return Temperature	°C	~45 (VTC)
2-14	efficiency	%	VTS
mechanical information			
3	Technical specs		

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No.	Description	Units	Value
3-1	Model	-	VTs
3-2	Air/Gas Discharge Temperature	°C	≤80 (VTC)
3-3	Maximum Allowable Discharge Temperature	°C	VTs
3-4	Maximum Discharge Pressure	kPa	VTs
3-5	Rotation Viewed from Driving End	-	Clockwise (VTC)
3-6	Suction NB	-	VTs
3-7	Delivery NB	-	VTs
3-8	By-Pass NB	-	VTs
3-9	Water Connection Tapping	-	G1 (VTC)
3-10	Pressure Gauge Tapping	-	M20x1.5 (VTC)
3-11	Bearing Type	-	rolling bearing (VTC)
3-12	Lubrication Type	-	Thin oil lubrication (VTC)
3-13	Gas Seal Type	-	labyrinth seal (VTC)
3-14	By Pass Valve Type	-	manual butterfly valve (VTC)
3-15	Baseplate Type	-	common-base (VTC)
3-16	Blower Speed	rpm	2980 (VTC)
3-17	Maximum Allowable	rpm	VTs
3-18	Starting Torque at Blower Shaft	Nm	VTs
3-19	Torque Required at Rates Speed	Nm	VTs
3-20	Driven Shaft Extension	-	VTs
3-21	Driven Shaft diameter and Limits	-	VTs
3-22	Coupling Type	-	diaphragm coupling (VTC)
3-23	Coupling Makers, No.	-	VTs
3-24	Impeller Inertia	-	VTs
3-25	Lubricating Oil Capacity	-	1.5L (VTC)

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No.	Description	Units	Value
3-26	Lubricating Oil Consumption	m ³ /h	VTS
4	Materials of construction (casing)		
4-1	Casing Studs and Bolts	-	VTS
4-2	Casing Covers	-	HT250 (VTC)
4-3	Rotors	-	VTS
4-4	Rotor Blades	-	ZL (VTC)
4-5	Rotor Shaft	-	45/35CrMo (VTC)
4-6	Gas Seals	-	ZL104/HT200/45 (VTC)
4-9	Gears	-	VTS
5	Materials of construction (pedestal)		
5-1	Baseplate Type	-	Q235 (VTC)
5-2	Coupling Guard	-	Q235 (VTC)
5-3	By - Pass Connection	-	Q235 (VTC)
5-4	By - Pass Valve Body	-	HT (VTC)
5-5	By - Pass Valve Trim	-	HT (VTC)
5-6	Gas Seals	-	VTS
5-7	Gear Case	-	VTS
6	Auxiliaries		
6-1	Requirement of Expansion joints at Either End	#	Yes or no (VTS)
6-2	Non return Flap	-	Yes (VTC)
6-3	Safety relief valve	-	Yes (VTC)
6-4	Pressure gauge	-	Yes
6-5	Requirement of ventilation fan in the acoustic	-	no (VTC)
6-6	Condensate Discharge	-	no (VTC)
6-7	Heat Insulation	-	Yes or no (VTS)

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No.	Description	Units	Value
6-8	Oil Filter Type	-	VTs
6-9	Oil Coolers Type	-	VTs
6-10	Oil Pump Type	-	VTs
6-11	Aux Oil Pump	-	VTs
6-12	Driver	-	VTs
6-13	Suction/ Discharge Silencer		Yes or no (VTs)
6-14	Discharge Damper		Yes or no (VTs)
6-15	Blow off valve		Yes or no (VTs)
7	Masses		
7-1	Machine Mass (Inclusive base frame)	kg	VTs
7-2	Motor Mass	kg	VTs
7-3	Gearbox mass	kg	VTs
7-4	Overall mass	kg	VTs
I&C information			
8	Pressure Gages		
8-1	Pressure Gages	-	YTN-100B VTs (VTC)
8-2	Suction	-	VTs
8-3	Discharge	-	VTs
8-4	Oil	-	VTs
9	Thermometers		
9-1	Discharge	-	VTs
9-2	Bearings	-	VTs
9-3	Oil	-	VTs
9-4	Type	-	PT100 (VTC)
10	High Discharge Temperature Alarm		
10-1	Alarm	-	High Discharge Temp. (VTC)

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No.	Description	Units	Value
10-2	Trip	-	High-High Discharge Temp. (VTC)
10-3	Type	-	VTS
11	Low Oil Pressure Alarm		
11-1	Alarm	-	Low discharge pressure (VTC)
11-2	Trip	-	Low-Low discharge pressure (VTC)
11-3	Type	-	VTS
12	High Bearing Temperature Alarm		
12-1	Trip	-	Alarm@90°C (VTC)
12-2	Type	-	VTS
13	other		
13-1	Panel required	-	Required
13-2	Local Operation Pressure from DCS	-	Required
13-2-1	Motor Speed Indication	-	Yes, by PROFIBUS (VTC)
13-2-2	EDS	-	Yes, by PROFIBUS (VTC)
13-2-3	Start/Stop	-	Yes, by PROFIBUS (VTC)
13-2-4	All Alarms (included fault)	-	Yes, by PROFIBUS (VTC)
13-2-5	Local Operating Permission	-	Yes, by PROFIBUS (VTC)
13-3	Motor Control Panel IP	-	54
13-4	Outdoor Control Panel IP	-	54
13-5	Auto Start/Stop	-	Required
13-6	Local HOA Push Button	-	Required
13-7	Anti-condensation Heater	-	for each panel by thermostat (VTC)
Electrical Data (NOTE 4,5)			
14	General information		
14.1	Type of Electro-motor		variable frequency motor
14.2	Installed Power	KW	55 (VTC)
14.3	Voltage	kV	0.4
14.4	Phase	Ø	3

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No.	Description	Units	Value
14.5	Frequency	Hz	50
14.6	Speed	r/min	2890 (VTC)
14.7	Sound Pressure Level	Db	<85 @ 1 m distance from pump
14.8	Insulation Class		F
14.9	Temperature Class		B
14.10	Safety Class		IP 55

Notes:

- Abbreviations:
 - VTS: Vendor to specify
 - VTC: Vendor to Confirm
 - WFL: Will be Final Later
- VTS, VTC, and blank items should be completed by the vendor.
- For site condition, please see the Doc. #: 12002-D-PR-DOC-303-GNL-001
- For the LV & MV motors data sheet please refer to 12002-D-EL-DSH-303-GNL-038
- For Technical Specification for MV & LV Motors please refer to 12002-D-EL-SPC-303-GNL-016