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REV	Condition: NORMAL OPERATION (Guaranteed)				
1	COMMESSA job	L43374	SIGLA item	AU1000-SU2000-DU4000-SRU3000	
2	SERVIZIO service	NG TREATMENT UNIT	COSTRUTTORE manufacturer	TECNO PROJECT INDUSTRIALE	
3	CONDIZIONI AMBIENTE DI RIFERIMENTO - Reference ambient conditions				
4	PRESSIONE ATMOSFERICA	Atmospheric pressure	bar a	1.013	
5	TEMPERATURA AMB. (PER PROCESSO)	Ambient temperature (for process)	°C	+35	
6	TEMPERATURA AMB. (PER DESIGN MECCANICO)	Amb. temperature (for mechanical design)	°C	Min. -25	Max. +40
7	UMIDITA' RELATIVA (PER PROCESSO)	relative humidity (for process)	%	60	
8	UMIDITA' RELATIVA (PER DESIGN MECCANICO)	relative humidity (for mechanical design)	%	Min. 50	Max. 80
9	CONDIZIONI DEL FEED GAS E DEL PRODUCT GAS - Feed gas and Product gas conditions				
10				FEED GAS	PRODUCT GAS
11	PRESSIONE	Pressure	bar a	43.9	43.4
12	TEMPERATURA	Temperature	°C	+30	+10
13	PORTATA	Flow rate	Nm3/h	7756.7	7348
14			kg/h	6413	5909
15	COMPOSIZIONE	Composition	% MOL		
16	Metano - C1	Methane - C1	%	86.499	88.234
17	Etano - C2	Ethane - C2	%	6.897	7.029
18	Propano - C3	Propane - C3	%	1.539	1.569
19	i-Butano - iC4	i-Butane - iC4	%	0.201	0.205
20	n-Butano - nC4	n-Butane - nC4	%	0.231	0.236
21	i- Pentano - iC5	i-Pentane - iC5	%	0.050	0.051
22	n-Pentano - nC5	n-Pentane - nC5	%	0.039	0.040
23	neo-Pentano - nC5	neo-Pentane nC5	%	0.002	0.002
24	n-Esano - c6+	n-Hexane - C6+	%	0.052	0.053
25	Azoto - N2	Nitrogen - N2	%	2.424	2.475
26	Anidride carbonica - CO2	Carbon dioxide - CO2	%	1.9461 (1)	≤ 40 ppm
27	Idrogeno - H2	Hydrogen - H2	%	0.104	0.106
28	Acqua	Water	%	0.0167	≤ 1 ppm
29	Ossigeno - O2	Oxygen - O2	%	100 ppm max	100 ppm max
30	Solfuro di idrogeno + solfuro di carbonile	Hydrogen sulphide + Carbonyl Sulphide	%	/	5 mg/m3 (2)
31	S totale	S total	%	/	10 mg/m3 (2)
32	Ammine	Amine	%	/	10 mg/m3 (2)
33	Silicio volatile totale (come Si)	Total volatile silicon (as Si)	%	/	0,3 mg/m3 (2)
34	ALTRE INTERFACCE DI PROCESSO - Other process interfaces				
35				kg/h	bara
36	RECUPERO CONDENSA DA GAS RIGENERAZIONE	Condensate recovery from regeneration gas		3.0	2.85
37	GAS DI RIGENERAZIONE (UMIDITA' INCLUSA)	Regeneration gas (included humidity)		202	3
38	FLASH AMMINE A COOLER GAS RIGENERAZIONE	Amine flash to regeneration gas cooler		8	3
39	GAS DI DEPRESSIONIZZAZIONE	Depressurization gas		127	43.4-3
40	HC LIQUIDI DA FLASH VESSEL	HC liquids		0.14	3
41	VENT CO2	CO2 Vent		306.3	1.49 (5)
42	UTILITIES - utilities				
43				INGRESSO - Inlet	USCITA - Outlet
44	TEMPERATURA ACQUA RAFFREDDAMENTO	Cooling water temperature	°C	40	50
45	PRESSIONE ACQUA RAFFREDDAMENTO	Cooling water pressure	bara	3.5	3
46	PORTATA ACQUA RAFFREDDAMENTO	Cooling water flow rate	m3/h	59	
47	TEMPERATURA ACQUA REFRIGERATA	Chilled water temperature	°C	5	10
48	PRESSIONE ACQUA REFRIGERATA	Chilled water pressure	bara	3	2.5
49	PORTATA ACQUA REFRIGERATA	Chilled water flow rate	m3/h	37 (4)	
50	PRESSIONE/TEMPERATURA INGR. ACQUA DEMI	Pressure/temperature demi water inlet	bara/°C	4 bara / 20 °C	
51	PORTATA ACQUA DEMI	Demi water flow rate	m3/h	0.1	
52	PRESSIONE/TEMPERATURA INGRESSO AZOTO	Nitrogen inlet pressure/temperature	bara/°C	9 bara / 25 °C	
53	PRESSIONE/TEMPERATURA INGRESSO ARIA STRUM.	Instrument air inlet pressure/temperature	bara/°C	5 min - 9 max bara / T ambient	
54	PRESSIONE/TEMPERATURA INGRESSO VAPORE	Steam inlet pressure/temperature	bara/°C	5 bara / 151.9 °C	
55	PORTATA VAPORE	Steam flow rate	kg/h	1100	
56	PRESSIONE/TEMPERATURA USCITA CONDENSA	Condensate outlet pressure/temperature	bara/°C	1.15 bara / 103.5 °C	
57	CONSUMO POTENZA ELETTRICA	Electric power consumption	kW	64 (3)	
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59	Note (1) - The system must be suitable for treating a gas with a CO2 content up to 2.5%				
60	Note (2) - Maximum limits in accordance with EN 16723-2 which must be guaranteed				
61	Note (3) - Main utilities: H4006 electric heater (medium power) and P2005 lean MDEA pump				
62	Note (4) - Chilled water contains 10% ethylene glycol in volume				
63	Note (5) - Vent valve shall be sized considering a counter-pressure of 0.4 bar				
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