

10-N

Item 21

Tom 132

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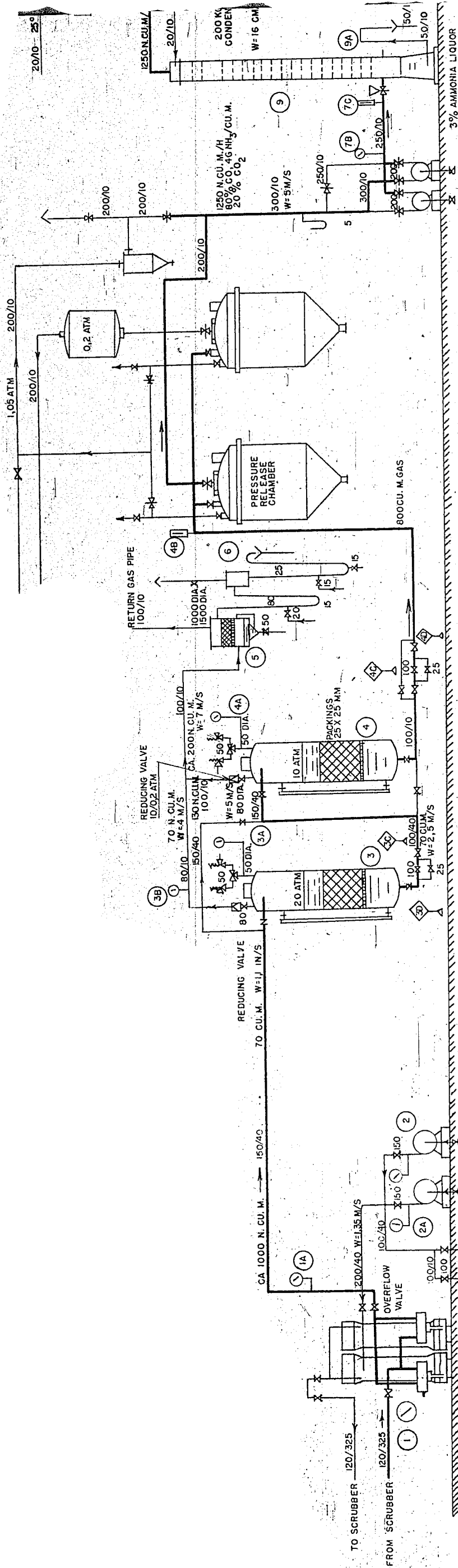
Legend of Drawing A 1030-4

770

Item	Designation	Sizes	Additional Drawings
1	Raw gas separator	Diam. 500 mm; length 4000 mm.	A30-4
2	Finished gas separator	" " " "	" "
3	CO-Scrubber	Diam. 600 mm; " 12,000"	A44-2
4	Liquor-mist-separator	160 " ; " 6,000"	Similar to V60-4
5	Suction-chamber	Diam. 3,000 mm; " 2,200 "	A-1388-2-F.A.70-2 Germania, Chemnitz, Guttsche, Grimma A415-4
6	Screen-pots	-	-
7	Centrif. pump for jet apparatus	-	-
8	Intermediate pressure release vessel	Diam. 2,000 mm; length 3,000 mm.	F.A.-69-2 Germania, Chemnitz
9	" " " "	" " " "	" " " "
10	Catch-pot	Diam. 600 mm; length 1,500 mm.	without drawing
11	Pressure release vessel	" 4,000 " ; " 3,500 mm. -cylinder height.	F.A.51-1 Hallische Maschinenbau
12	Abating vessel	12.5 m ² heating coil	F.A.31-2
13	Separator	-	F.A.23-4 without drawing
14	Seal pot	-	Without drawing
15	Jet-apparatus	300-925 mm. diam. 5 mm. wall thickness	F.A. 22-4 Prometheus Hannover
16	Scrubber	Diam. 800 mm; length 5,000 mm	F.A. 75-4 Kamprath Halle
17	NH ₃ -scrubber	" 800/1200 mm; " 12,000 "	F.A. 199-2 Borsig
18	Stripper	" 500 mm; length 12,000 mm.	F.A.70-1 R.Wolf-Buckan
19	Cooler for copper liquor	500 m ² area Diam. 1800 mm; length 3,935 2,068 tubes	F.A.50-1 old design: F.A. new design
20	Heat exchanger and cooler	and 3 m ² cooling area each	A-896-4
21	Gear pumps	10 cu. m/h; head 20m.	Motor 1.3 KW; 3,000 r.p.m. respect. 1.5 cu. m./hr head 20m.
22	Pressure release unit (new design)	-	-
23	Pressure release unit (old design)	Diam. 500 mm; length 3,660 mm.	A5-1; A65-2; A62-2; A49-2; A45-2
24	Centrifugal pumps	80 cu. m./h; head 80 m.	motor 30 KW; 3,000 r.p.m.
25	Screen-pots	-	Without drawing; similar to A-415-4
26	3 pressing plunger pumps	16 m ³ /h	200 KW, 960 r.p.m. (Balke)
27	Filter-press	-	-
28	Centrifugal pumps	25 m ³ /h; head 25m.	5.5 KW; 2830 r.p.m.
29	Screen pots	-	-
30	"Cellar-vessel"	Diam. 2,000 mm; length 4,500 mm	F.A.35-2 (Hallische Marsh)
31	Air-chamber	-	-
32	Liquor-collecting-tank	-	-
33	Centrifugal pump	-	-
34	Oil-collecting tank	-	-
35	NH ₃ -tank	Diam. 1,600 mm; length 9,000 mm	Guttsche

FLOW SHEET OF CARBON MONOXIDE REMOVAL FROM GASES
BY MEAN OF AN AMMONIACAL COPPER SOLUTION

ITEM 21



- FROM SUCTION CHAMBER AND CATCHPOTS FLOWSHEET OF CU-LIQUOR SCRUBBER
- (1) 1 PRESSURE RELEASE ENGINE
65.0 MM DIA. STROKE 2800 MM
48 DOUBLE STROKES: 70 CU. M./H
 - (2) 2 FEED IN PUMPS
150 CU. M./H, 30 ATM
173 KW EACH
 - (3) 1 PRESSURE RELEASE CHAMBER
CA. 100 CU. M.
PRESSURE 30 ATM
 - (4) 1 PRESSURE RELEASE CHAMBER
CA. 100 CU. M.
PRESSURE 20 ATM
 - (5) 1 SEPARATING VESSEL
CA. 1000 LITERS
 - (6) 1 LIQUID SEAL
SNECHERHEIM TYPE
3 METER HEAD OF WATER
 - (7) 2 BLOWERS, 1600 CU. M./H
1.230 MM. HEAD OF WATER
9.8 KW EACH
 - (8) 1 COLUMN 800 MM DIA.
20 BUBBLE CAP PLATES
CA. 500 CU. M.
 - (9) 1 GAS HOLDER
CA. 500 CU. M.
 - (10) 3 COMPRESSORS, OPER. PRESS. 5
2 X 320 CU. M./H, 30 KW EACH
1 X 235 CU. M./H, 23 KW

4. ACTUAL (5.2 ATM, 40° C)

100/10

16 CU. M. NaOH
85 CM./S

50/10

50/10

50/10

50/10

50/10

50/10

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50/10

50/10

50/10

100/10

STEAM 135KG
2.5 ATM.

80/10

W = 60 CM/S

4.6 ATM

15°

4.6 ATM

15°

4.6 ATM

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4.6 ATM

(29)

1 CONDENSOR 12 SQ.M.
5 ELEMENTS 2 SQ.M. EACH
COOLING WATER 800 L/H

(21)

1 SEPARATOR

(22)

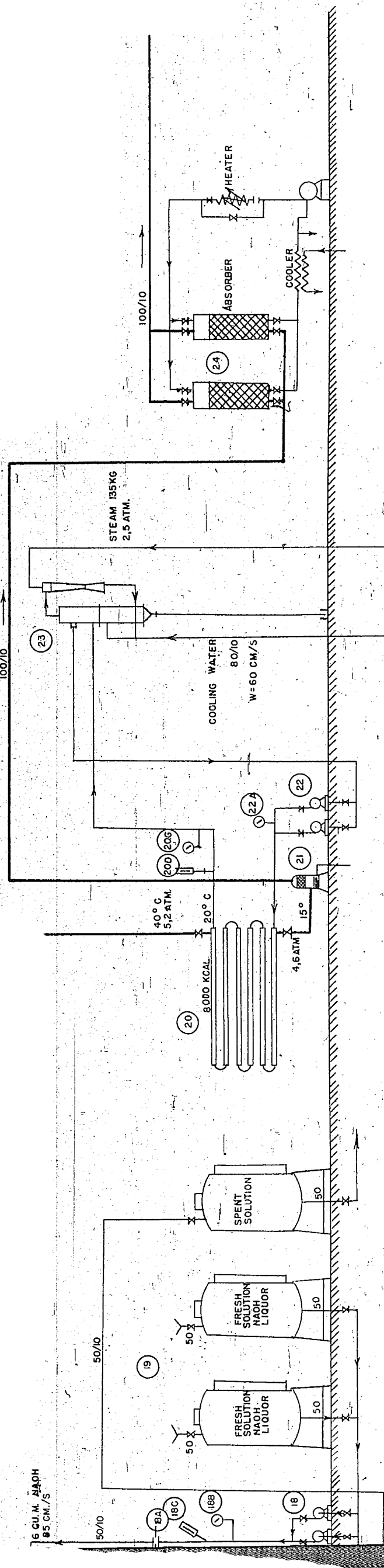
2 COLD WATER PUMPS
3 CU.-M./H

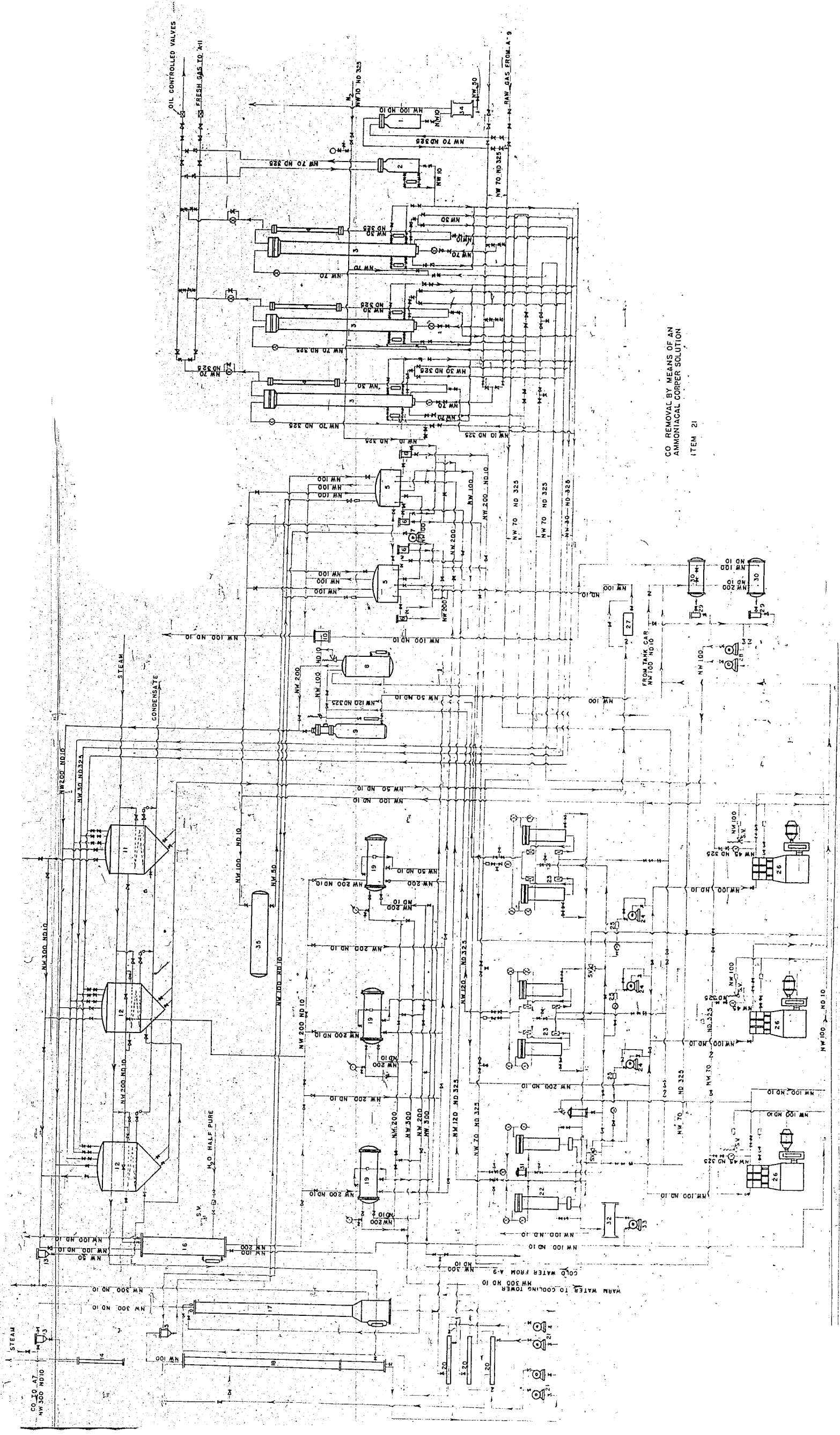
(23)

1 STEAM JET REFRIGERATION UNIT
15000 KCAL/H, 135 KG STEAM/H
COOLING WATER 11 CU.-M./H

(24)

1 SILICAGEL UNIT





CO₂ REMOVAL BY MEANS OF AN AMMONIACAL COPPER SOLUTION
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