

BAB V
SPESIFIKASI ALAT

5.1. Tabel alat utama dan alat pelengkap beserta spesifikasinya

No	Nama Alat	Kode	Jenis	Ukuran	Bahan Kontruksi	Jmlh
1	Storage Metanol	F-111	Tangki	diameter dalam (di) = 226 in diameter luar (do) = 228 in tinggi tangki (H) = 377.194 tinggi silinder (Ls) = 339 in volume tangki (V) = 47509.281 ft ³ tebal tutup atas (tha) = 0.5625 in tinggi tutup atas (ha) = 38.194 in	Carbon Steel SA Steel 167 Grade 3 Type 304	6
2	Pompa	L-112	Sentrifugal	Kapasitas = 225.658 ft ³ panjang pipa (L) = 1011.048 in daya (P) = 1 Hp	Carbon Steel	1
3	Vaporizer	V-110	DPHE	diameter dalam (di) = 2,067 in diameter luar (do) = 2.38 in Panajng pipa (L) = 12 ft Kapasitas (Ls) = 3482,4263 ft ³	Carbon Steel	1
4	Air Filter	H-115		Ukuran = 26 × 26 in Kapasitas (Ls) = 2734,1497 ft ³ /menit	Carbon Steel	1
5	Kompresor Udara	G-124 B	Recyprocatin g compressor	Power = 1 hp Pabs = 1 atm Kapasitas (Ls) = 2607043,8478 ft ³	Carbon Steel	1
6	Kompresor Metanol	G-124A	Recyprocatin g compressor	Power = 1 hp Pabs = 1 atm Kapasitas (Ls) = 2049722,9654 ft ³	karbon Stel HAS S 240 Grade Tipe 304	1
7	Heater Udara	E-125	DPHE	diameter dalam (di) = 2.027 in diameter luar (do) = 2.38 in Panajng pipa (L) = 12 ft Kapasitas (Ls) = 439342.6923 ft ³	Carbon Steel HAS SA 240 Grade M Type 304	1

8	Kompresor formaldehid	G-125	Recyprocatin g compressor	Power = 1 hp Pabs = 1 atm Kapasitas (Ls) = 4607399,1000 ft ³	Carbon Steel	1
9	Reaktor	R-110		Alat utama dirancang oleh (Raden Asri Maulana NIM. 2014011)		
10	Cooler I	E-121A	DPHE	diameter dalam (di) = 0.782 in diameter luar (do) = 1 in Panajng pipa (L) = 20 ft Kapasitas (Ls) = 17965.133 kg/jam	Grade M Type 316	1
11	Absorber	D-120		Perancangan Alat Utama (Clara Afrancy Dey) NIM. 2014017		
12	Tangki Produk	F-136	Tangki	diameter dalam (di) = 142.5285 in diameter luar (do) = 144 in tinggi tangki (H) = 42.1994 ft tinggi silinder (Ls) = 17.9063 kg/jam volume tangki (V) = 1675.5639 kg/jam tebal tutup atas (tha) = 0.1875 in tinggi tutup atas (ha) = 24.2093 in tebal tutup atas (tha) = 0.1875 in tinggi tutup bawah (ha) = 267.3081 in	karbon Stel HAS S 241 Grade M Tipe 315	1
12	Mesin Carbon Pengemas	P-137	Silinder Tabung	volume Mesin = 65.1786 ft ³	Carbon Steel	1
14	Gudang produk	F-138	Gudang	Waktu tinggal = 30 hari Panjang = 40 meter Lebar = 20 meter Tinggi = 15 meter	Beton	1