

oils & fats desmet ballestra	DeSmet Ballestra North America						Project	Capacity	Eng	Project	Date	REV	
							WORPAR	2000 TPD	GVK / JAW	JCG	15-Oct-21	000	
World Energy Desmet Vessel Thickness													
Node	Desmet Tag	Dwg Title	Diameter OD (mm)	Height (head- head) (mm)	Diameter OD (in)	Height head- head (in)	Shell Thickness (in)	Head Thickness (in)	Head type	Volume (m³)	Insulated	Desmet P&ID	WEP Tag
1	601.1	Oil Dryer	3048	6096	120.00	240.00	0.375	0.338	Elliptical Head 2:1 Both Ends	42.62	Yes	100169710	19-D-756
2	601.2	Oil Dryer	3048	6096	120.00	240.00	0.375	0.338	Elliptical Head 2:1 Both Ends	42.62	Yes	100169744	19-D-856
3	603.1	PE Maturator	3500	10000	137.80	393.70	0.375	0.390625	Elliptical Head 2:1 Both Ends	96.7	Yes	100169716	19-D-751
4	604B.2	Precoat Slurry Mixer	2500	3650	98.43	143.70	0.25	0.236	Elliptical Dishend 2:1 Both Ends	17.3	Yes	100169745	19-D-865
5	604B1.1	Precoat Slurry Mixer	2500	3650	98.43	143.70	0.25	0.236	Elliptical Dishend 2:1 Both Ends	17.3	Yes	100169711	19-D-765A
6	604B2.1	Precoat Slurry Mixer	2500	3650	98.43	143.70	0.25	0.236	Elliptical Dishend 2:1 Both Ends	17.3	Yes	100169712	19-D-765B
7	621B.1	Oil/Steam Heat Exchanger	680 (ID)	3000	26.77 (ID)	118.11	0.25	ICR = 680mm, IKR = 68mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	102.2	Yes	100185985	19-X-752
8	621B.2	Oil/Steam Heat Exchanger	680 (ID)	3000	26.77 (ID)	118.11	0.25	ICR = 680mm, IKR = 68mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	102.2	Yes	100169747	19-X-852
9	621C.1	Oil/Steam Heat Exchanger	710 (ID)	2500	27.95 (ID)	98.43	0.25	ICR = 710mm, IKR = 71mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	94.9	Yes	100169716	19-X-754
10	622.1	Continuous Bleacher	3800	5400	149.61	212.60	0.5	0.409	Elliptical Dishend 2:1 Both Ends	58.12	Yes	100169715	19-D-757
11	622.2	Continuous Bleacher	3800	5400	149.61	212.60	0.5	0.409	Elliptical Dishend 2:1 Both Ends	58.12	Yes	100169748	19-D-857
12	630B.2	Filter Aid Hopper	2440	3550	96.06	139.76	0.1875	N/A	Filter Bin WD Cone Double Hopper	7.24		100169745	19-BN-860
13	630B1.1	Filter Aid Hopper	1600	3200	62.99	125.98	0.1875	N/A	Single Bin	3.7		100169711	19-BN-763
14	630B2.1	Filter Aid Hopper	2440	3550	96.06	139.76	0.1875	N/A	Filter Bin WD Cone Double Hopper	7.24		100169712	19-BN-761
15	630S	Silica Hopper	2440	3500	96.06	137.80	0.1875	N/A	Filter Bin WD Cone Double Hopper	7.24		100169713	19-PK-755-BN-01
16	632A	Vacuum Seal Tank	--	--	--	--	0.25	N/A	Rectangular (L=3048, W = 1219, H = 1524)	5.66		100169725	19-T-752
17	635A.1	Oil Earth Mixer	3048	3650	120.00	143.70	0.25	0.228	Elliptical Dishend 2:1 Both Ends	26.4	Yes	100185985	19-RA-752
18	635A.2	Oil Earth Mixer	3048	3650	120.00	143.70	0.25	0.228	Elliptical Dishend 2:1 Both Ends	26.4	Yes	100169747	19-RA-852
19	635S.1	Oil Silica Mixer	3048	3650	120.00	143.70	0.25	0.228	Elliptical Dishend 2:1 Both Ends	26.4	Yes	100169713	19-RA-753
20	635S.2	Oil Silica Mixer	3048	3650	120.00	143.70	0.25	0.228	Elliptical Dishend 2:1 Both Ends	26.4	Yes	100169746	19-RA-853
21	646A.1	Oil-Water Vapor Separator	1510	2438	59.45	95.98	0.25	0.1875	Elliptical Dishend 2:1 Both Ends	5	Yes	100169715	19-D-759
22	646A.2	Oil-Water Vapor Separator	1510	2438	59.45	95.98	0.25	0.1875	Elliptical Dishend 2:1 Both Ends	5	Yes	100169748	19-D-859
23	682B/682H.1	Bleached Oil Tank/Heel Tank	3800	6000	149.61	236.22	0.5	0.413 Main Shell Ends, Peak 0.259	Elliptical Head 2:1 All Ends	682B=27, 682H=25	Yes	100169723	19-D-763, 19-D-762
24	682B/682H.2	Bleached Oil Tank/Heel Tank	3800	6000	149.61	236.22	0.5	0.413 Main Shell Ends, Peak 0.259	Elliptical Head 2:1 All Ends	682B=27, 682H=25	Yes	100169754	19-D-863, 19-D-862
25	682X.1	Filter Element Cleaning Table	2160	2500	85.04	98.43	0.25	0.25	Flat Top, Conical bottom 90°	10.3	Yes	100169725	19-D-772
26	682X.2	Filter Element Cleaning Table	2160	2500	85.04	98.43	0.25	0.25	Flat Top, Conical bottom 90°	10.3	Yes	100169756	19-D-872
27	W502.1	Degummed Oil Storage Tank	3048	5486	120.00	215.98	0.25	1/4 top, 3/8 bottom	Elliptical Dishend 2:1 Top, Conical bottom 120°	38.9	Yes	100169703	19-D-754
28	W502.2	Degummed Oil Storage Tank	3048	5486	120.00	215.98	0.25	1/4 top, 3/8 bottom	Elliptical Dishend 2:1 Top, Conical bottom 120°	38.9	Yes	100169737	19-D-854
29	W503AC.1	Acid Reactor	3500	7150	137.80	281.50	0.25	0.25	Elliptical Head 2:1 Both Ends	70	Yes	100169697	19-RA-750
30	W503AC.2	Acid Reactor	3500	7150	137.80	281.50	0.25	0.25	Elliptical Head 2:1 Both Ends	70	Yes	100169730	19-RA-850
31	W503B.1	Reagent Reactor	1829	3505	72.01	137.99	0.5	0.5	Elliptical Head 2:1 Both Ends	10.8	Yes	100169699	19-RA-751
32	W503B.2	Reagent Reactor	1829	3505	72.01	137.99	0.5	0.5	Elliptical Head 2:1 Both Ends	10.8	Yes	100169733	19-RA-851
33	W503E1.2	Enzyme Reactor	3500	10000	137.80	393.70	0.3125	0.25	Elliptical Head 2:1 Both Ends	97.4	Yes	100169732	19-RA-854A
34	W503E2.2	Enzyme Reactor	3500	10000	137.80	393.70	0.3125	0.25	Elliptical Head 2:1 Both Ends	96.4	Yes	100169732	19-RA-854B
35	W503E3.2	Enzyme Reactor	3500	10000	137.80	393.70	0.3125	0.25	Elliptical Head 2:1 Both Ends	96.4	Yes	100169732	19-RA-854C
36	W503W.1	Water Wash Reactor	1829	3505	72.01	137.99	0.5	0.5	Elliptical Head 2:1 Both Ends	10.8	Yes	100169704	19-RA-755
37	W503W.2	Water Wash Reactor	1829	3505	72.01	137.99	0.5	0.5	Elliptical Head 2:1 Both Ends	10.8	Yes	100169738	19-RA-855
38	W521B.1	Oil/Steam Heat Exchanger	660 (ID)	3500	25.98 (ID)	137.80	0.3125	ICR = 660mm, IKR = 66mm 1/4" THK MIN / 5/16" THK NOM	Torispherical Dish End	--	Yes	100169696	19-X-751
39	W521B.2	Oil/Steam Heat Exchanger	660 (ID)	3500	25.98 (ID)	137.80	0.3125	ICR = 660mm, IKR = 66mm 1/4" THK MIN / 5/16" THK NOM	Torispherical Dish End	--	Yes	100169729	19-X-851
40	W521C.2	Oil/Steam Heat Exchanger	510 (ID)	2000	20.07 (ID)	78.74	0.25	ICR = 510mm, IKR = 51mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	--	Yes	100169733	19-X-859
41	W521D.1	Oil/Steam Heat Exchanger	530 (ID)	3000	20.86 (ID)	118.11	0.25	ICR = 530mm, IKR = 53mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	--	Yes	100169703	19-X-758
42	W521D.2	Oil/Steam Heat Exchanger	530 (ID)	3000	20.86 (ID)	118.11	0.25	ICR = 530mm, IKR = 53mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	--	Yes	100169737	19-X-858
43	W521HW	Soft Water/Steam Heat Exchanger	254.4 (ID)	3000	10.01 (ID)	118.11	0.365	ICR = 254.4mm, IKR = 25.5mm 3/16" THK MIN / 1/4" THK NOM	Torispherical Dish End	--	Yes	100169704	19-X-762
44	W532C.1	Oil/Water Separator	2000	4250	78.74	167.32	0.3125	0.25	Elliptical Dishend 2:1 Both Ends	15.2		100169707	19-T-750
45	W532C.2	Oil/Water Separator	2000	4250	78.74	167.32	0.3125	0.25	Elliptical Dishend 2:1 Both Ends	15.2		100169741	19-T-850

