



Unit Model	(Dual CKT) Flow Rate GPM		(Dual CKT) R448A *Design Cap. (MBH)		Capacity % min (Single CKT) to	(Dual CKT) R448A Outlet Velocity (Ft./Sec.)		HTX Margin %		HTX Glycol Flow Rate Head (FT-H2O)		Pump HP	Pump KW	Head (FT) Max
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum			
WMT-SEC-GLY-20/95	55	95	182	308.2	21.1	18.2	31	13.6	9.22	2.31	7.83	5	3.73	100
WMT-SEC-GLY-32/160	85	160	282.9	532.5	20	11.4	21.5	32.5	0.736	3.26	7.9	7.5	5.59	100
	(Single CKT) Flow Rate GPM		(Single CKT) R448A *Design Cap. (MBH)			(Single CKT) R448A Outlet Velocity (Ft./Sec.)		HTX Margin %		HTX Glycol Flow Rate Head (FT-H2O)				
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum			
WMT-SEC-GLY-20/95	20	55	64.9	182		13	18.2	30.2	13.6	0.917	3.49			
WMT-SEC-GLY-32/160	32	85	106.5	282.9		13.9	22.9	49.4	2.48	2.21	3.26			

			Gallons Per Minute Flow																				
	Minimum	Maximum	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160					
WMT-SEC-GLY-20/95	20	95		64.9 MBH											308.2 MBH								
WMT-SEC-GLY-32/160	32	160		173.1 MBH																		32.5 MBH	
WMT-SEC-GLY-20/95	20	55		64.9 MBH	175 MBH																		
	55	95		SINGLE CKT					182 MBH	308.2 MBH													
														DUAL CKT									
WMT-SEC-GLY-32/160	32	85		106.5 MBH					282.9 MBH														
	85	160												282.9 MBH									532.5 MBH
														SINGLE CKT					DUAL CKT				

*Design Capacities are based on 27F entering fluid, 20F leaving fluid, 35% Propylene glycol, 3F approach (17F SST), 5F Superheat, and 8F Subcooling



Model	Refrigerant	Design Saturated Suction Temp (°F)	GPM (35%PG)	Design Delta (27° EFT, 20°F LFT)	Leaving Fluid Temp (°F)	Capacity (MBH)	Revised SST to Produce 20°LFT (°F)	Approach °F
WMT-SEC-GLY-20/95	R22	17	95	7	20	308.2	13	7
	R502	17	95	7	20	308.2	13	7
	R404A	17	95	7	20	308.2	14	6
	R407A	17	95	7	20	308.2	17	3
	R448A	17	95	7	20	308.2	17	3
	R427A	17	95	7	20	308.2	16	4
	R507A	17	95	7	20	308.2	14	6
	R410A	17	95	7	20	308.2	14	6
	R422D	17	95	7	20	308.2	14	6
	R422A	17	95	7	20	308.2	14	6
	R422C	17	95	7	20	308.2	14	6



Model	Refrigerant	Design Saturated Suction Temp (°F)	GPM (35%PG)	Design Delta (27° EFT, 20°F LFT)	Leaving Fluid Temp (°F)	Capacity (MBH)	Revised SST to Produce 20°LFT (°F)	Approach °F
WMT-SEC-GLY-32/160	R22	17	160	7	20	532.5	14	6
	R502	17	160	7	20	532.5	14	6
	R404A	17	160	7	20	532.5	15	5
	R407A	17	160	7	20	532.5	17	3
	R448A	17	160	7	20	532.5	17	3
	R427A	17	160	7	20	532.5	17	3
	R507A	17	160	7	20	532.5	14	6
	R410A	17	160	7	20	532.5	16	4
	R422D	17	160	7	20	532.5	15	5
	R422A	17	160	7	20	532.5	15	5
	R422C	17	160	7	20	532.5	15	5



404a Derate Chart

<u>Glycol:</u>					
	SST (°F)	EFT (°F)	LFT (°F)	Flow (gpm)	Capacity (mbh)
20/95	17	23	20	95	135.6
	17	30	23	95	316
	14	27	20	95	316
	17	25	20	32	76.1
	17	28	21	32	106.5
	17	27	20	25	83.2
32/160	17	23	20	160	228.4
	13	27	20	160	532.5
	17	30	23	160	532.5
	17	25	20	85	202.1
	17	28	21	85	282.8
	17	27	20	52	173.1