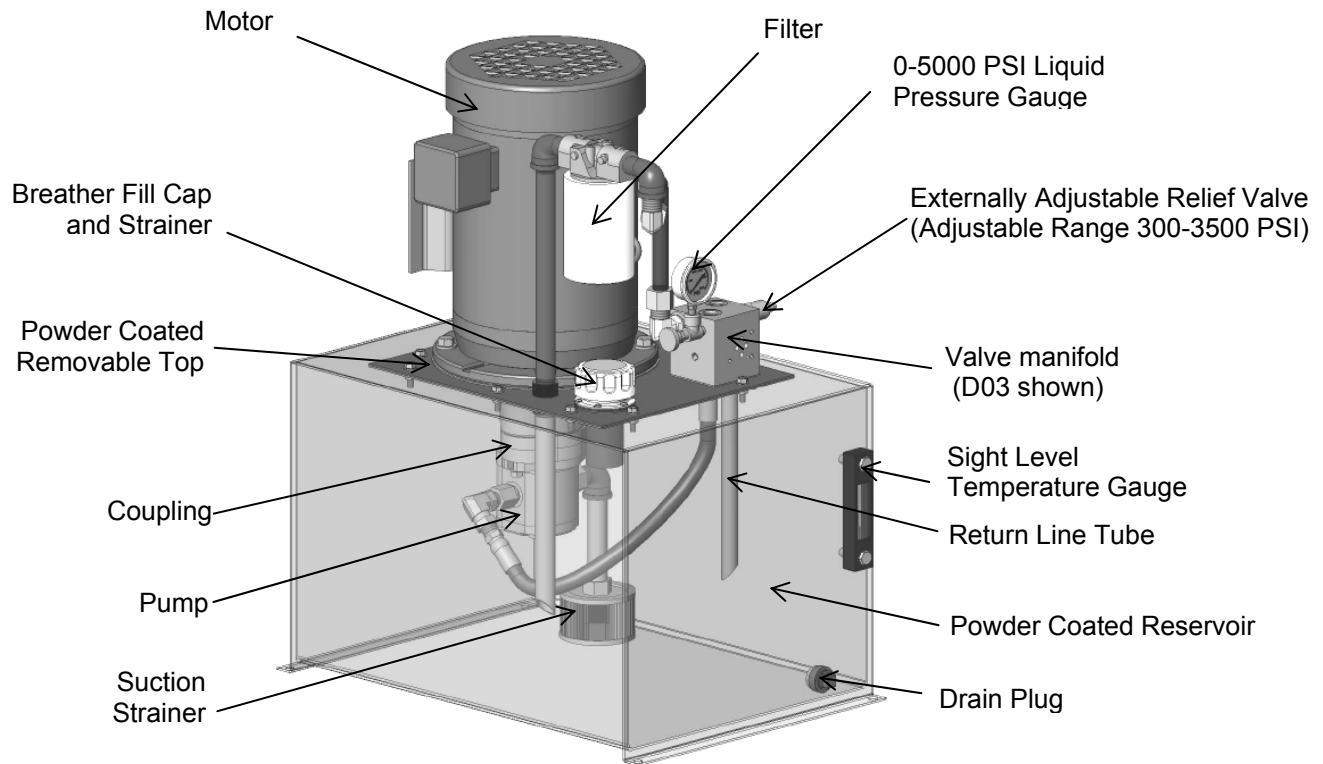


MT & T Series Power Units



STANDARD POWER UNIT



Options:

- Water / Oil heat exchangers
- Air / Oil heat exchangers
- Pressure switches
- D03 and D05 directional control valves
- Subplate mounted D03 and D05 stack valves:
 - Cross port relief
 - Port relief
 - Pressure reducing
 - Single and double flow control
 - Direct and pilot operated check
 - Counterbalance relief
- Float type level switches
- Wide range of pressure gauges
- Accumulators
- Custom manifolds
- Heaters
- Viton seals
- NPT ports
- Synthetic fluids (consult factory)

Recommended Operating Conditions for T Power Units

Oil Temperature Range: 10°F -170°F
 Recommended Operating Temperature: 50°F -130°F

Oil Viscosity: Optimum: 100 - 350 SUS
 Minimum: 100 SUS
 Maximum Start Up: 3500 SUS

Recommended Filtration: 10 Micron nominal or better

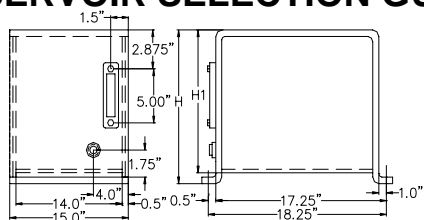
1. PUMP / MOTOR SELECTION GUIDE

PUMP CODE	DISPLACEMENT (IN ³ /REV)	RPM	FLOW (GPM)	HP REQUIRED AT NOTED PRESSURE AND FLOW					
				@500PSI	@1000PSI	@1500PSI	@2000PSI	@2500PSI	@3000PSI
14	0.056	1750	0.43	0.17	0.33	0.50	0.66	0.83	0.99
		3450	0.84	0.33	0.65	0.98	1.31	1.63	1.96
01	0.077	1750	0.59	0.23	0.46	0.67	0.91	1.14	1.37
		3450	1.16	0.45	0.90	1.35	1.80	2.25	2.71
02	0.099	1750	0.75	0.29	0.58	0.88	1.17	1.46	1.75
		3450	1.48	0.58	1.15	1.73	2.30	2.88	3.45
03	0.124	1750	0.94	0.37	0.73	1.10	1.47	1.83	2.20
		3450	1.86	0.72	1.45	2.17	2.89	3.62	4.34
04	0.137	1750	1.04	0.40	0.81	1.21	1.61	2.01	2.42
		3450	2.04	0.79	1.59	2.38	3.17	3.97	4.76
05	0.193	1750	1.46	0.57	1.14	1.70	2.27	2.84	3.41
		3450	2.88	1.12	2.24	3.36	4.48	5.60	6.72
15	0.248	1750	1.88	0.73	1.46	2.19	2.92	3.65	4.38
		3450	3.70	1.44	2.88	4.32	5.76	7.20	8.64
41	0.087	1750	0.66	0.23	0.45	0.68	0.90	1.13	1.36
		3450	1.30	0.45	0.89	1.34	1.78	2.23	2.68
42	0.131	1750	0.99	0.34	0.68	1.02	1.36	1.71	2.05
		3450	1.96	0.67	1.35	2.02	2.69	3.36	4.04
43	0.175	1750	1.33	0.46	0.91	1.37	1.82	2.28	2.74
		3450	2.62	0.90	1.80	2.70	3.60	4.50	5.40
44	0.264	1750	2.00	0.69	1.37	2.06	2.74	3.43	4.12
		3450	3.94	1.35	2.70	4.06	5.41	6.76	8.11
45	0.395	1750	3.00	1.03	2.05	3.08	4.11	5.14	6.16
		3450	5.90	2.03	4.05	6.08	8.10	10.13	12.15
08	0.273	1750	2.07	0.71	1.42	2.13	2.84	3.55	4.26
		3450	4.08	1.40	2.80	4.20	5.60	7.00	8.40
09	0.430	1750	3.26	1.12	2.24	3.35	4.47	5.59	6.70
		3450	6.42	2.20	4.41	6.61	8.81	11.02	13.22
16	0.586	1750	4.44	1.52	3.05	4.57	6.10	7.62	9.15
		3450	8.76	3.01	6.01	9.02	12.02	15.03	18.04
10	0.703	1750	5.33	1.83	3.66	5.48	7.31	9.14	10.97
		3450	10.50	3.60	7.21	10.81	14.41	18.02	21.62
18	0.860	1750	6.51	2.24	4.47	6.71	8.94	11.18	13.41
11	0.977	1750	7.40	2.54	5.08	7.62	10.16	12.70	15.24
12	1.094	1750	8.29	2.84	5.69	8.53	11.38	14.22	17.07
13	1.289	1750	9.77	3.35	6.71	10.06	13.41	16.77	20.12
06	1.718	1750	13.02	4.47	8.93	13.40	17.87		
21/22*	1.004	1750	7.61	2.47	4.93	7.40	9.87	12.33	14.80
27/28*	1.406	1750	10.65	3.45	6.91	10.36	13.81	17.26	20.72
29/30*	2.008	1750	15.22	4.93	9.86	14.80	19.73		

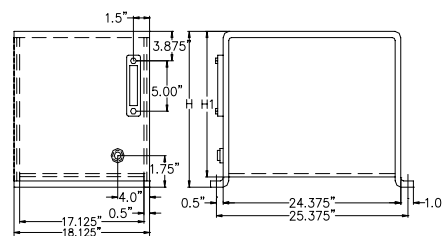
* Piston pumps supplied with adjustable maximum displacement stop can be set to less than max. flow (Consult factory).

Note: When selecting a motor, choose the HP required or the next highest nominal HP available, ie. for 2.8HP, use 3HP.

2. RESERVOIR SELECTION GUIDE

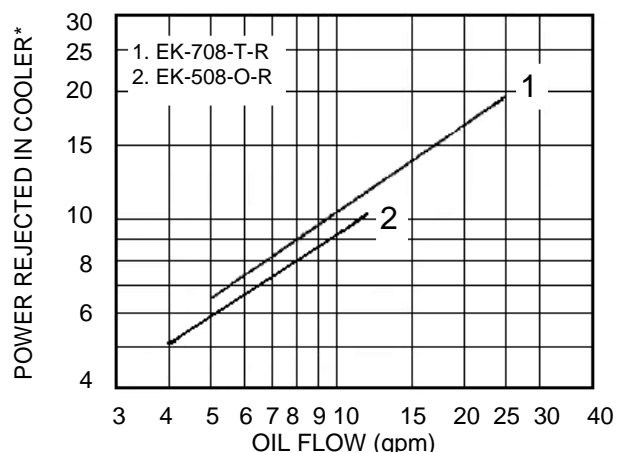


DIM. IN INCHES	RESERVOIR CAPACITY / USABLE VOLUME		
	8 / 4.4 GAL	10 / 5.2 GAL	15 / 9.8 GAL
H	12 3/4	14 1/4	19
H ₁	12	13 1/2	18 1/4

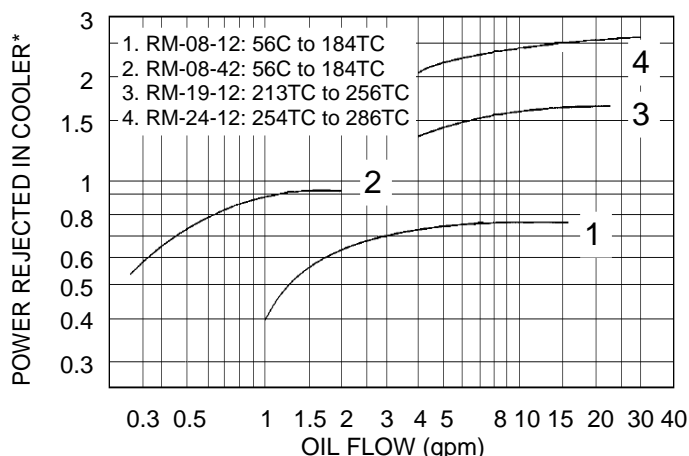


DIM. IN INCHES	RESERVOIR CAPACITY / USABLE VOLUME		
	20 / 12 GAL	30 / 22 GAL	50 / 42 GAL
H	16 3/4	22 1/4	34
H ₁	16	21 1/2"	33 1/4

3. HEAT EXCHANGER SELECTION CHARTS



3.1 Water/Oil Heat Exchanger



3.2 Air/Oil Heat Exchanger

* Performance curves are based on 100SSU oil leaving the cooler 40°F higher than the ambient air temperature used for cooling. This is also referred to as a 40°F approach temperature. Air/oil heat exchangers are not recommended where ambient temperature exceeds 90°F.

4. VALVES

4.1 Standard directional control valves are conduit box connection type, DIN style coils also are available.

		4-Way/3-Position Tandem Center	4-Way/3-Position Open Center	4-Way/3-Position Closed Center	4-Way/3-Position P Blocked.	4-Way/2-Position P to A Spring Offset
D03	12VDC	00962	00963	00961	01040	00460
	24VDC	00965	00966	00964	01039	00461
	110VAC	00970	00967	00968	00969	01041
D05	12VDC	00462	00463	00464	00465	00475
	24VDC	00476	00477	00478	00479	00480
	110VAC	01060	01061	01062	01063	01064

Alternate coil voltages such as 220VAC and 24VAC are also available (Consult factory).

4.2 Auxiliary valve modules (consult factory for additional options).

	Flow Control	P.O. Check	Counterbalance	Pressure Reducing
D03	00469	00468	XOVCDEFC301	00471
D05	00769	00768	XOVCDEFC501	00771

5. OPTIONAL MANIFOLDS FOR REMOTE MOUNTING

Standard D03, D05 and D08 manifolds are available from stock in parallel and series configurations. These manifolds are typically used with power units equipped with only P and T ported manifolds.

T & MT SERIES SELECTION GUIDE

I	PUMP			RESERVOIR			MOTOR				PUMP & MOTOR DRIVE CODES		VALVE MANIFOLD		TOP PLATE CODES		FILTER / COOLER CODES		SEQUENCE CODES							
	CODE	DESCRIPTION		CODE	DESCRIPTION		CODE	PART #	HP	VOLTAGE	PHASE	FRAME	CODE	PART #	DESCRIPTION	CODE	PART #	DESCRIPTION	CODE	PART #	DESCRIPTION & CAPACITY					
	TOTAL CAPACITY / USABLE GALLONS			(ALL STANDARD MOTORS ARE TEFC)																						
	14	0.43 / 0.84 gpm @ 1750 / 3450	Fixed clearance (MT)	A	8 gallons (4.4 gallons usable)*		101	FPAC101	0.5	115/230	1	56C	A	FPTN020-SA	Motor Drive Kit for 56C frames	01	FP0760	P&T Manifold	A	FPTN001-SA	Use with all MT Series	1	FPTN030-SA	9 GPM rated return filter	Assigned by Factory	
	01	0.59 / 1.16 gpm @ 1750 / 3450		B	10 gallons(5.2 gallons usable)*		102	FPAC102	0.5	230/460	3	56C	B	FPTN021-SA	Motor Drive Kit for 143TC/145TC or 182C/184C frames	02	FP0758	D03 Single Station	B	FPTN002-SA	Standard Top Plate	2	FPTN031-SA	9 GPM rated return filter with RM-08-42 cooler		
	02	0.75 / 1.48 gpm @ 1750 / 3450		C	15 gallons(9.8 gallons usable)		103	FPAC103	0.5	575	3	56C	C	FPTN022-SA	Motor Drive Kit for 182/184tc frames	03	FP0744	D05 Single Station	C	FPTN003-SA	All but manifold holes	3	FPTN032-SA	9 GPM rated return filter with RM-08-12 Air/Oil Cooler		
	03	0.94 / 1.86 gpm @ 1750 / 3450		D	20 gallons(12 gallons usable)		104	FPAC104	0.5	115/230	1	56C	D	FPTN023-SA	Motor Drive Kit for 213TC or 215TC frame	04	FP0757	D03 2 Station Parallel	D	FPTN004-SA	Top Plate with Motor Hole	4	FPTN033-SA	30 GPM rated return filter		
	04	1.04 / 2.04 gpm @ 1750 / 3450		E	30 gallons(22 gallons usable)		105	FPAC105	0.5	230/460	3	56C	E	FPTN024-SA	Motor Drive Kit for 182TC/184TC w/PVP16 Pumps	05	FP0755	D03 3 Station Parallel	E	FPTN005-SA	Blank Top, Mounting holes only	5	FPTN034-SA	30 GPM rated return filter with RM-08-12 Air/Oil Cooler		
	05	1.46 / 2.88 gpm @ 1750 / 3450		F	50 gallons(42 gallons usable)		106	FPAC106	0.5	575	3	56C	F	FPTN025-SA	Motor Drive Kit for 213TC/215TC w/PVP16 Pump	06	FP0753	D03 4 Station Parallel	F	FPTN006-SA	Top Plate Kit, code 08, 10, 16 or 09 pumps	6	FPTN035-SA	30 GPM rated return filter with RM-19-12 Air/Oil Cooler		
	15	1.88 / 3.70 gpm @ 1750 / 3450					201	FPAC201	1	115/230	1	56C	G	FPTN026-SA	Motor Drive Kit for 182TC/184TC w/SAE B Pump	08	FP0728	D03 5 Station Parallel	G	FPTN007-SA	Top Plate Kit, code 22 pump with up to 215TC motor	7	FPTN036-SA	30 GPM rated return filter with RM-24-12 Air/Oil Cooler		
				0	Without reservoir		202	FPAC202	1	230/460	3	56C	H	FPTN027-SA	Motor Drive Kit for 213TC/215TC w/SAE B Pump	09	FP0751	D03 2 Station Series	H	FPTN008-SA	Top Plate Kit, code 21 pump with up to 215TC motor	8	FPTN037-SA	9 GPM rated return filter with EK-708-T-R Water Cooler	* Sequence codes for each model are assigned by the factory after the final design is established. The sequence code is specific to each model code and identifies all accessory components.	
				+	SPECIAL		203	FPAC203	1	575	3	56C	I	FPTN028-SA	Motor Drive Kit for 56 w/PVP16 Pump	10	FP0749	D03 3 Station Series	I	FPTN009-SA	Top Plate Kit, for SAE B pumps with up to 184TC motor	9	FPTN038-SA	30 GPM rated return filter with EK-708-T-R Water Cooler		
	41	0.66 / 1.30 gpm @ 1750 / 3450	* Do not specify code A or B for piston pump applications				204	FPAC204	1	115/230	1	56C	J	FPTN029-SA	Motor Drive Kit for 143TC/145TC 182C/184C w/PVP16	11	FPN0106-1	D03 4 Station Series	J	FPTN010-SA	Top Plate Kit, for SAE B pumps with 213/215TC motor	10	FPTN039-SA	30 GPM rated return filter with RM-08-42 Case Drain Cooler		
	42	0.99 / 1.96 gpm @ 1750 / 3450					205	FPAC205	1	230/460	3	56C		206	FPAC206	1	575	3	56C	K	FPTN016-SA	Top Plate Kit, for SAE B pumps with 254/256TC motor	12	FPTN040-SA		9 GPM rated return filter with RM-08-42 Case Drain Cooler
	43	1.33 / 2.62 gpm @ 1750 / 3450					251	FPAC251	1.5	115/230	1	56C		252	FPAC252	1.5	230/460	3	56C	L	FPTN017-SA	Top Plate Kit, for SAE B pumps with 254/256TC motor	13	FPTN041-SA		9 GPM rated return filter with EK-508-O-R Water Cooler
	44	2.00 / 3.94 gpm @ 1750 / 3450					253	FPAC253	1.5	575	3	56C		254	FPAC254	1.5	115/230	1	56C	M	FPTN053-SA	Motor Drive Kit for 56C w/SAE AA Pumps	14	FPTN042-SA		9 GPM rated return filter with RM-19-12 Air/Oil Cooler
	45	3.00 / 5.90 gpm @ 1750 / 3450					255	FPAC255	1.5	230/460	3	56C		256	FPAC256	1.5	575	3	56C	N	FPTN054-SA	Motor Drive Kit for 143TC/145TC 182C/184C w/SAE AA Pumps	15	FPTN043-SA		RM-08-12 Cooler, 15 GPM
	08	2.07 / 4.08 gpm @ 1750 / 3450					301	FPAC301	2	115/230	1	56C		302	FPAC302	2	230/460	3	56C	O	FPTN055-SA	Motor Drive Kit for 254TC/256TC w/PVP16	16	FPTN044-SA	9 GPM rated return filter with RM-08-42 Case Drain Cooler	
	09	3.26 / 6.42 gpm @ 1750 / 3450					303	FPAC303	2	575	3	56C		304	FPAC304	2	115/230	1	56C	P	FPTN055-SA	Motor Drive Kit for 254TC/256TC	17	FPTN045-SA	9 GPM rated return filter with EK-708-T-R Water Cooler	
	16	4.44 / 8.76 gpm @ 1750 / 3450		305	FPAC305	2	230/460	3	56C		306	FPAC306	2	575	3	56C	Q	FPTN056-SA	Motor Drive Kit for 254TC/256TC w/PVP16	18	FPTN046-SA	9 GPM rated return filter with RM-19-12 Air/Oil Cooler				
	10	5.33 / 10.50 gpm @ 1750 / 3450		351	FPAC351	3	115/230	1	56C		352	FPAC352	3	230/460	3	56C	R	FPTN060-SA	SAE AA mount pumps & 56C To 184C frame motor	19	FPTN047-SA	9 GPM rated return filter with RM-08-12 Cooler, 15 GPM				
	18	6.51 gpm @ 1750		353	FPAC353	3	575	3	56C		354	FPAC354	3	230	1	184TC	S	FPTN061-SA	SAE AA mount pumps & 182TC or 184TC frames motor	20	FPTN048-SA	No Filter and Cooler				
	11	7.40 gpm @ 1750		355	FPAC355	3	230/460	3	56C		356	FPAC356	3	575	3	182TC	T	FPTN070-SA	All but manifold holes for use with SAE B mount pump & 213/215 TC motor	21	FPTN049-SA	Special Filter/Cooler				
	12	8.29 gpm @ 1750		404	FPAC404	5	230	1	184TC		405	FPAC405	5	230/460	3	184TC	U	FPTN071-SA	All but manifold holes for use With SAE B mount pump & 254/256 TC motor	22	FPTN050-SA	* All return filters have visual by-pass indicator				
	13	9.77 gpm @ 1750		406	FPAC406	5	575	3	184TC		455	FPAC455	7.5	230/460	3	213TC	V	FPTN072-SA	Top Plate Kit, code 27/29 pumps with up to 184TC motor	23	FPTN051-SA					
	06	13.02 gpm @ 1750		456	FPAC456	7.5	575	3	213TC		457	FPAC457	7.5	575	3	213TC	W	FPTN073-SA	Top Plate Kit, code 27/29 pumps with 213/215TC motor	24	FPTN052-SA					
	21	7.61 gpm @ 1750, RAC *(1)		505	FPAC505	10	230/460	3	215TC		506	FPAC506	10	575	3	215TC	X	FPTN074-SA	Top Plate Kit, code 27/29 pumps with 254/256TC motor	25	FPTN054-SA					
	22	7.61 gpm @ 1750, FPC *(1)		605	FPAC605-1	15	230/460	3	256TC		606	FPAC606-1	15	575	3	254TC										
	27	10.65 gpm @ 1750, RAC *(1)		705	FPAC705	20	230/460	3	256TC		706	FPAC706	20	575	3	256TC										
	28	10.65 gpm @ 1750, FPC *(1)		NOTE: PART NUMBERS ENDING IN 1, 2 OR 3 ARE 3600 RPM MOTORS. PART NUMBERS ENDING IN 4, 5 OR 6 ARE 1800 RPM MOTORS. PLEASE SEE PRICE LIST FOR MORE INFORMATION.																						
	29	15.22 gpm @ 1750, RAC *(1)																								
	30	15.22 gpm @ 1750, FPC *(1)																								
	++	SPECIAL																								

Ordering Example:

I	1 0	D	4 0 5	C	3 4	F	1	- X X
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Complete with 2 Directional valves (00968-Y) and 2 modules (00468-Y) and 2 modules (00469-Y).
* unloader valve to be 110VAC conduit connection