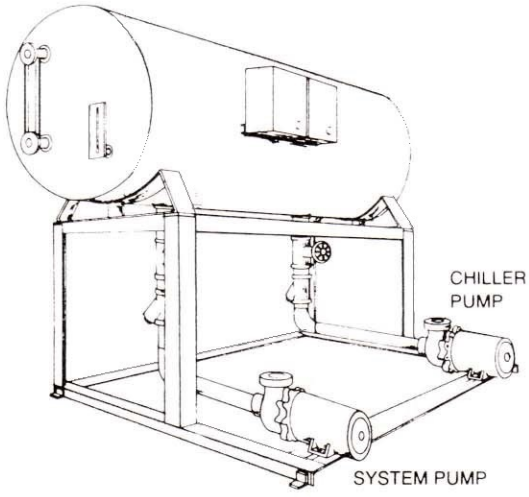
PUMP SECTION

Chiller Feed Pump, Type LCFP

APPLICATION

The Chiller Feed Pump, Type LCFP is applicable to air conditioning and refrigeration systems that require storage and distribution of hydronic water or brine. One of the benefits of the complete Chiller Feed Pump assembly is to run a constant load on the compressor preventing short cycling, consequently resulting in longer life and better temperature control to the compressor/chiller system. They are offered in a standard configuration (as shown in picture).



Chiller Feed Pump, Type LCFP

FEATURES

FREEDOM FROM SHORT CYCLING - One of the benefits of the MEPCO Chiller Feed Pump is to run a constant load on compressor eliminating costly short cycling. A surge tank evens out the process load, creating a fly wheel effect. This keeps the compressor from short cycling which will prevent ON & OFF banging and add life to the air conditioning or refrigeration system.

VARYING GPM APPLICATIONS POSSIBLE - The tank to the chiller pump provides full flow to chiller allowing for varying GPM and allows one or more users.

COST EFFECTIVE - MEPCO Chiller Feed Pumps are factory pre-assembled to eliminate costly build-ups on location.

LONGER LIFE TO COMPRESSOR - Chiller Feed Pumps provide full flow to the chiller extending life, reducing wear and requiring less maintenance by eliminating ON/OFF operation on very light loads.

CENTRIFUGAL PUMPS - The centrifugal pumps employed are MEPCO design, manufacture, and are of the close-coupled type. They are bronze fitted and suitable for working pressures to 175 PSI. The hydraulic design is such that they have a low NPSH. Motor speeds provided are 3450 RPM.

TANKS - The receiver is of welded copper-bearing steel construction and is provided with liquid level gauge and necessary inlet, vent, drain and overflow tappings. Also, fill funnel tapping is provided for manual fill.

MOTORS - Name brand open drip-proof motors are used for the centrifugal pumps. They are 115-230/1/60, 208/230-460/3/60. Two (2) horsepower and larger motors are available in three phase only.

CONTROLS - All units are furnished with necessary controls, magnetic starters mounted on the tank, complete with three-position selector switches labeled Hand-Off-Auto.

OTHER FEATURES - Furnished with the model LCFP are suction lines complete with isolation valves, thermometer, strainers, welded heavy gauge tank saddles, and a tank stand constructed of standard structural steel.

Selection And Capacity Data

Standard Options — The following components can be furnished as standard options:

- Magnetic starters with disconnect or circuit breaker
- Rust resistant tank lining
- Electric solenoid make-up
- Low water cut-off switch
- Three valve bypass for make-up system
- Control circuit transformers (req'd. on 460 volts)

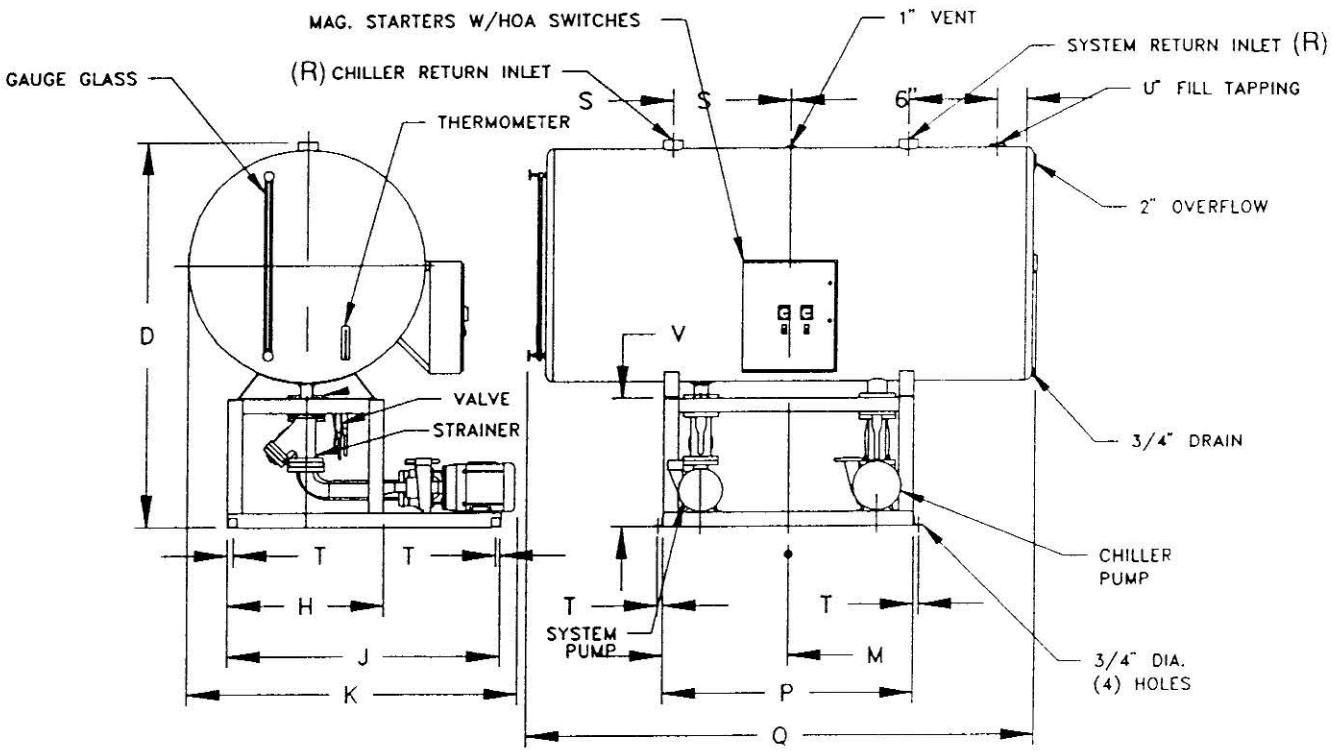
Other options available such as (1)specific pump conditions, (2) pressurized tanks, (3) stainless steel tanks, and (4) quantity of pumps.

TON	TANK SIZE	GAUGE	GAL.	HP	SYSTEM PUMP	@ 80' PUMP GPM CAPCITY	HP	CHILLER PUMP	@ 50' PUMP GPM CAPCITY
5	24 X 36	10	71	3/4	R05-10-007-34	12	1/2	R05-10-005-34	12
7 1/2	24 X 36	10	71	1	R05-10-010-34	18	1/2	R05-10-005-34	18
10	24 X 48	10	94	1	R05-10-010-34	24	3/4	R05-10-007-34	24
15	30 X 48	10	147	1 1/2	R05-10-015-34	36	1	R05-10-010-34	36
20	30 X 48	10	147	2	R05-12-020-34	48	1	R05-10-010-34	48
25	30 X 66	10	202	2	R06-12-020-34	61	1 1/2	R05-10-015-34	61
30	36 X 66	10	291	3	R06-12-030-34	73	1 1/2	R05-12-015-34	73
35	36 X 66	10	291	3	R06-12-030-34	85	2	R06-12-020-34	85
40	36 X 66	10	291	3	R06-15-030-34	97	3	R06-12-030-34	97
50	42 X 66	7	396	5	R06-15-050-34	121	3	R06-15-030-34	121
60	48 X 72	7	564	5	R06-20-050-34	145	5	R06-20-050-34	145
70	48 X 72	7	564	5	R06-20-050-34	168	5	R06-20-050-34	168
80	48 X 96	7	752	7 1/2	R06-20-075-34	192	5	R06-25-050-34	192

NOTE Tanks are sized for 3-5 times system pump GPM.

*For 10 gauge shell thickness the head will be 3/16" thick.
*For 7 gauge shell thickness the head will be 1/4" thick.

Dimensional Data



NOTE: Roughing in dimensions only, not to be used for installation.
Certified dimensions available upon request from the factory.

	TON	D	H	J	K	M	N	P	Q	(FPT) R	S	T	U	V	APPOX. SHIP. WEIGHTS LBS.
	5	54	18	34	37	13	7	26	41	1 1/4	9	1 1/8	3/4	25 5/8	553
	7 1/2	54	18	34	37	13	7	26	41	1 1/4	9	1 1/8	3/4	25 5/8	570
	10	54	21	39	37	19	11	38	53	1 1/2	12	1 1/8	3/4	25 5/8	615
	15	60	21	39	43 1/2	19	11	38	53	2	12	1 1/8	3/4	25 5/8	681
	20	60	21	39	43 1/2	19	11	38	53	2	12	1 1/8	3/4	25 5/8	700
	25	60	32	56	43 1/2	25 1/2	14	51	71	2 1/2	15	1 1/8	1 1/4	25 5/8	815
	30	66	32	56	58	25 1/2	14	51	71	2 1/2	15	1 1/8	1 1/4	25 5/8	910
	35	66	32	56	58	25 1/2	14	51	71	2 1/2	15	1 1/8	1 1/4	25 5/8	923
	40	66	32	56	58	25 1/2	14	51	71	2 1/2	15	1 1/8	1 1/4	25 5/8	955
	50	72	32	56	61	25 1/2	14	51	71	3	15	1 1/8	2	25 5/8	1158
	60	79	32	56	67	25 1/2	18	51	77	3	18	1 1/8	2	26 5/8	1334
	70	79	32	56	67	25 1/2	18	51	77	3	18	1 1/8	2	26 5/8	1450
★	80	79	32	56	67	25 1/2	18	51	101	4	24	1 1/8	2	26 5/8	1620

★ Frame is constructed of angle iron except for model LFCP 80-752 which is constructed from channel iron.

TYPICAL SPECIFICATIONS

Chiller Feed Pump, Type LCFP

The contractor shall furnish and install as specified in the plans and in accordance with the manufacturer's instructions. MEPCO Type LCFP Chiller Feed Pump, catalog number _____which has a capacity rating of _____ NOMINAL TONS, chiller pump capable of producing _____ GPM at _____ PSI, and system pump capable of producing _____ GPM at _____ PSI.

The unit shall consist of welded steel tank (_____ gallon capacity, _____ thick heads and _____ gauge shell, _____ x _____), with manual fill tapping, pump isolation valves, water level gauge, thermometer, and close coupled pumps. The centrifugal pumps shall be bronze fitted and suitable for working pressures 175 PSI driven by a _____HP motor operating at 3450 RPM.

The unit shall also be furnished with necessary controls which shall include two (2) magnetic starters and two (2) three position selector switches (labeled Hand-Off-Auto) for each package. Electrical current pump shall be _____ Volts _ _ _ Phase _____ Hertz.

Job Name _____ Location _____ Door Size _____ x _____.

REPRESENTED BY: