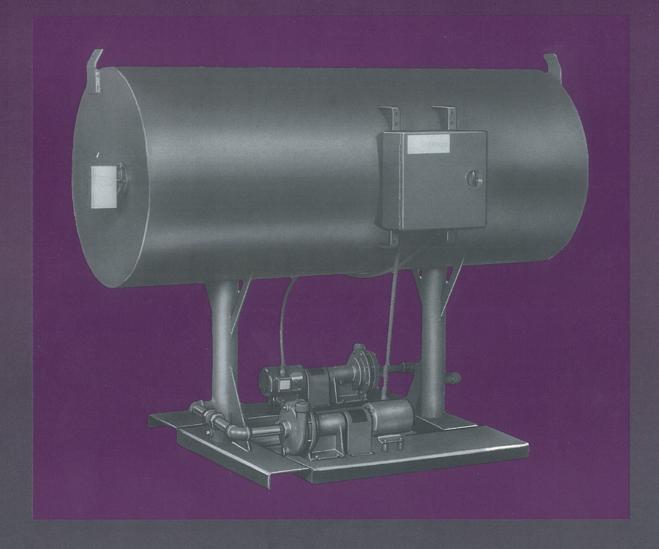
Skidmore®

Bulletin 16A May, 2006

H SERIES CONDENSATE, BOILER FEED AND MAKEUP PUMPS



Corrosion resistant steel receivers

Capacities from 1,000 to 125,000 sq. ft. EDR

Boiler HP from 7½ to 1,000

2 Ft. N.P.S.H.R. pump selections

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GENERAL INFORMATION

The Skidmore™ pumping systems described in this brochure are completely assembled, wired and tested at the manufacturing plant. They are designed to provide maximum efficiency, reliability and easy maintenance in compact, space saving configurations.

Manufacturing is done in clean modern facilities by people who take pride in producing dependable products. Each unit is individually factory tested before shipment to assure that the product is ready for service when it is received. Testing includes verification of flow rate, pressure, amperage draw and cut-in/cut-out points of all components. You can specify Skidmore products with confidence, knowing that you will receive the benefits that made the Skidmore name synonymous with quality and pride since 1921.

We invite you to compare the features and specifications of our condensate, boiler-feed and makeup pumps with other units. We're sure Skidmore will be your choice.

SKIDMORE CUSTOM ENGINEERING

If your installation poses special problems, Skidmore's custom engineering and building capabilities are available without charge as part of our total service.

TECHNICAL MANUALS

Several technical manuals are available free-of-charge from your Skidmore representative, or they may be obtained by writing directly to the Skidmore sales headquarters in Benton Harbor, Michigan.

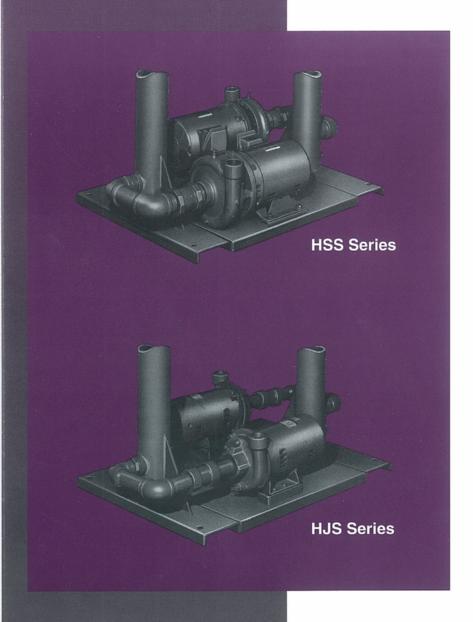
Bulletin 23T-1 contains piping and wiring diagrams, tables, formulas, and terminology.

Bulletin 23T-3 is a selection guide for boiler feed and condensate pumps. It contains the basic information required to understand, select and specify pump systems. Numerous diagrams show a variety of typical installations and piping arrangements.



CONDENSATE PUMPS

Condensate pumps are used in low pressure heating systems to collect and quickly return condensate to the boiler feed unit. Their pumping action is controlled by the water level in the receiver. Units consist of an electric motor and centrifugal pump mounted on a welded steel storage receiver with a float operated pump control (simplex units — float switch, duplex units — mechanical alternator). Multiple pump units are used when greater pumping capacity or back-up pump protection is required. Note: Condensate pumps do not supply boiler system makeup water.



Boiler feed pumps are used to pump and precisely control the condensate and makeup water required by the boiler(s) in low pressure steam applications. Pumping action is controlled by the fluid level in the boiler. They consist of a welded steel storage receiver equipped with a makeup valve and one or more centrifugal pumps.

BOILER FEED OR MAKEUP PUMPS



H SERIES PUMPING SYSTEMS

Skidmore H Series pumping systems are available in simplex, duplex, triplex or quadruplex configurations from 1,000 to 125,000 sq. ft. EDR or 7½ to 1,000 boiler HP.

Skidmore Centrifugal Pumps

Skidmore centrifugal pumps feature rugged, heavy-duty design and simple construction assuring ease of accessibility for maintenance and repairs. Pumps may be removed for inspection or repair without disturbing pipe connections.

HPC and HPM Series

Horizontal, flexible coupled centrifugal type pump(s) with 250°F mechanical seal consisting of bronze rotating element with carbon ring, ceramic floating or stationary seat and stainless steel spring. Seal is especially designed for hot water service. The stainless steel pump shaft runs in heavy-duty ball bearings and is coupled to the motor with a heavy-duty flexible coupling. Coupling guard is included.

HSS and HSSM Series

Horizontal, close-coupled centrifugal type pump(s) with 250°F mechanical shaft seal consisting of bronze rotating element with carbon ring, ceramic floating or stationary seat and stainless steel spring. Seal is especially designed for hot water service. Pump motor is ball bearing type and the extended.

HNS and HNSM Series

Horizontal close-coupled centrifugal type with mechanical seal consisting of a special bronze rotating impeller designed to operate at a minimum of 2' N.P.S.H.R. The pump motor is ball bearing type with an extended stainless steel motor shaft. Mechanical seal design is especially suited for 2' N.P.S.H.R. applications.

HJS and HJSM Series

Similar to the HSS and HSSM pumps except for the bronze impeller which is manufactured by a special process to provide low friction water passages for high efficiency. The pump is available in 3450 RPM motors with standard voltages and enclosures.

Motors

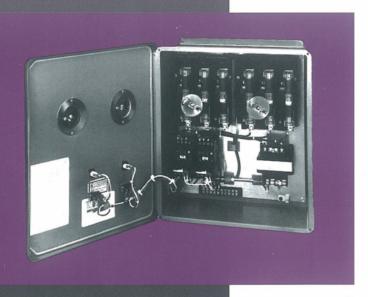
Motors are heavy-duty, ball bearing, open drip-proof type. Most fractional horsepower, single-phase motors have built-in thermal overload protection. Special motors available upon request.

Receivers

Receivers are constructed of welded rust resisting steel. Standard sizes to 1,000 gallons. Larger sizes available on special order. Smaller pump sizes (catalog # on selection chart) can be ordered with larger size receivers.

Bases

Bases are fabricated of channel steel and welded.



Control Panels

Skidmore will provide optional control panels tailored to your specific application requirements. Please refer to Bulletin ACC -700 for additional information, or consult with your local Skidmore representative who will be pleased to assist with your control panel selection. UL approved and labeled panels are available by request on 700 Series control panels.

Condensate Pumps — Standard Equipment

Single condensate return units are equipped with a 2-pole, heavy-duty float switch activated by a float. The entire switch mechanism including flange, float and rod is mounted on end of receiver, and it can be removed as a complete unit. The mechanism is readily adjustable for various water levels without removal from the receiver.

Duplex return units are equipped with a mechanical alternating float switch which alternates the operation of two pumping units in successive cycles. It consists of two 2-pole switch units in one enclosure, and is operated by one float within the receiver. This device not only alternates the pumping units, but also automatically starts the second pump in case the first pump fails to start or to carry the loan.

Tappings for gauge glass and thermometer are standard on all H Series receiver tanks.

Condensate Pumps - Optional Equipment

- Controls
 - Two float switches on duplex units Electric alternator on duplex units
- · Gauge glass assembly
- Gate valve(s)
- Thermometer
- Control cabinet duplex includes magnetic starters with reset buttons and third leg overload protection for three-phase. Two hand-off automatic selector switches are optional. Other electrical options available, for further information reference bulletin ACC-700.
- Inlet strainer basket or "y" type
- Magnesium corrosion inhibitor
- Tank linings
- · High water alarm
- Manhole
- · Split leg flanges

Boiler Feed Pumps - Standard Equipment

Single and duplex boiler feed units are equipped with a heavy duty float operated makeup valve actuated by a float. The entire mechanism including flange, float and rod is mounted on the end of receiver. It can be removed as a complete unit and is readily adjustable for various water levels. Tappings for gauge glass and thermometer are standard on all H series receiver tanks.

Boiler Feed Pumps - Optional Equipment

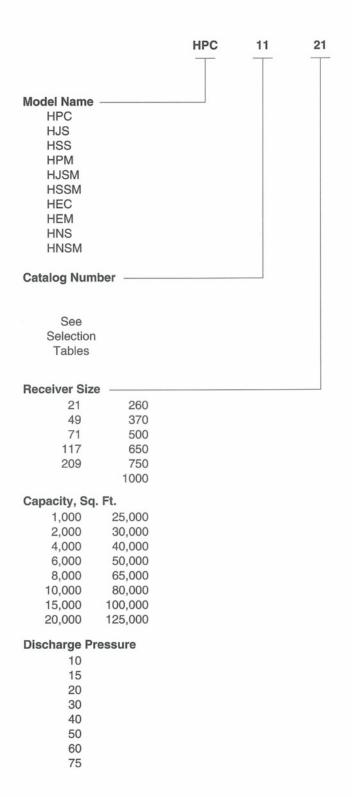
- · Solenoid operated makeup valve with float switch
- McDonnel-Miller #21 makeup valve
- McDonnel-Miller #25 makeup valve
- · Gauge glass assembly
- Gate valve pump suction
- Thermometer
- Control cabinet duplex includes two starter switches, two reset buttons and third leg overload protection for three-phase. Two hand-off automatic selector switches are optional. Other electrical options are available, see bulletin
- ACC-700 for additional information

 Magnesium corrosion inhibitor
- Inlet strainer basket or "y" type
- Preheater
- Manhole
- Split leg flanges

ACCESSORIES AND OPTIONAL EQUIPMENT



TYPICAL CATALOG CODE DESIGNATION



HOW TO ORDER

Condensate Pumps Specify the following information: Model name and number (catalog number)
Receiver size" dia" long gallons
Condensate pumps gpm psig RPM
HPvolt Hz HP
Boiler Feed or Makeup Pumps Specify the following information: Model name and number (catalog number)
Receiver size" dia" long gallons
Quantity boiler feed pumps gpm
psig RPM HP volt
HzPH

Makeup water supply pressure _____ psig

TYPICAL ENGINEERING SPECIFICATIONS

HPM Boiler Feed Unit

Furnish and install according to plans and manufacturer's instructions the quantity of boiler feed units as shown on the drawings. Each unit shall consist of one (1) boiler feed receiver, quantity of boiler feed pumps as scheduled, one (1) inlet strainer, suction gates valves, one (1) water makeup assembly, electrical controls and accessories.

The boiler feed pumps shall be centrifugal design, coupled to the motor through a heavy duty flexible coupling with coupling guard. The motor and rotating parts shall be removable without disturbing suction or discharge piping. Pumps shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft and dripless mechanical seals suitable for 250°F. Capacities and electrical characteristics shall be as scheduled on the drawings.

The receiver shall be horizontal welded, rust resisting steel construction elevated on fabricated steel frame and channel steel base. Receiver shall have a capacity of not less than that shown on drawings and shall be equipped with water level gauge glass, dial thermometer, Skidmore makeup water valve with capacity equal to one (1) boiler feed pump, inlet strainer with bronze or stainless steel screen easily removable for cleaning, suction gate valves. Contractor shall install check valve, gate valve and pressure gauge in each discharge line.

d Control Specifica pacity Schedule Skidmore Model N				
Receiver size	″ dia	″ long	gallo	ns
Quantity bo	iler feed pu	mps	gpm	psig
gpm	_ psig	gpm	psig	
RPM	_HP	_ volt	Hz	PH
Makeup water supp	ly pressure	psi	g	

Duplex HNS Series Condensate Units 2' N.P.S.H.R.

A C

Furnish and install according to plans and manufacturer's instructions the quantity of condensate units as shown on the drawings. Each unit shall consist of one (1) receiver, one (1) mechanical alternator, two (2) condensate pumps, one (1) inlet stainer, two (2) suction gate valves, electrical controls and accessories.

The condensate pumps shall be centrifugal design close coupled to the motor. Pump shall be bronze fitted with enclosed bronze centrifugal impeller, stainless steel shaft and dripless mechanical seals suitable for 250° F. Unit shall be 2" N.P.S.H.R. Capacities and electrical characteristics shall be as scheduled on the drawings.

The receiver shall be horizontal welded, rust resisting steel construction elevated on fabricated steel frame and channel steel base. Receiver shall have a capacity of not less than that shown on drawings and shall be equipped with water level gauge glass, dial thermometer, inlet strainer with bronze or stainless steel screen easily removable for cleaning suction gate valves. Contractor shall install check valve, gate valve and pressure gauge in each discharge line.

dd Control Speci apacity Schedule Skidmore Mod					
Receiver size _	″ dia	long _	gallo	ns	
Quantity	condensate p	oumps	_ gpm	psig	
gpm	psig	gpm	psig _	N.P.	S.H.R.
RPM	HP	volt	_ Hz	PH	
Makeup water s	upply pressure	e psig	1		

SELECTION TABLE - HP, HSS, HJS and HE

HPC, HSS, HJS and HEC - Condensate Pump and Receiver

HPM, HSSM, HJSM and HEM - Boiler Feed Pump and Receiver

Note: The HP and HSS units 20 PSI and under operate at 1750 RPM. 30 PSI and over operate at 3500 RPM, HJS all operate at 3500 RPM.

		nd HSS unit	1.5	3	6	9	12	15	22.5	30	37.5	45	60	75	97.5	150	187.5
PSI	E.D.R.		1,000	2,000	4,000	6,000	8,000	10,000	15,000	20,000	25,000	30,000	40,000	50,000	65,000	100,000	The state of the s
1 01		LOG NO.	11	21	41	61	81	101	151	201	251	301	401	501	651	1001	1251
	OATA	Motor H.P.	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/2	1/2	3/4	1	1½	1½	2
	HPC HPM HSS HSSM	Frame Size	1B	1B	1B	1B	1B	1B	1B	1B	11/4B	11/2B	11/2B	2B	2B	2B	2B
	HSS	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	2	2	21/2	21/2	21/2	21/2
10	HSSM	Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	11/2	11/2	2	2	2	2
10	_	Motor H.P.	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/2	1/2	1/2	1	1½	2	**11/2	**2
	HJS HJM	Frame Size	1H	1H	1H	1H	1H	1H	1H	2M	2M	2H	4M	5M	6M	620A	620A
	HEC	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	11/2	11/2	21/2	21/2
	HEM	Discharge	1	1	1	1	1	1	1	1	1	1	11/4	11/4	11/4	2	2
	CATAL	LOG NO.	111/2	211/2	411/2	611/2	811/2	1011/2	151½	2011/2	2511/2	3011/2	4011/2	5011/2	6511/2	10011/2	1251%
		Motor H.P.	1/3	1/3	1/3	1/3	1/3	1/3	1/2	1/2	3/4	3/4	1	1½	11/2	2	3
	HPC HPM HSS HSSM	Frame Size	1B	1B	1B	1B	1B	1B	1B	1B	11/4B	11/2B	11/2B	2B	2B	2B	2B
	HSS	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	2	2	21/2	21/2	21/2	21/2
15	HSSM	Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	11/2	11/2	2	2	2	2
10	_	Motor H.P.	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/2	1/2	1/2	1	11/2	2	**3	**3
	HJS HJM	Frame Size	1H	1H	1H	1H	1H	1H	1H	2M	2M	ЗН	4M	5M	6M	820A	820A
	HEC HEM	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	1½	11/2	21/2	21/2
	HEM	Discharge	1	1	1	1	1	1	1	1	1	1	11/4	11/4	11/4	2	2
	CATAI	LOG NO.	12	22	42	62	82	102	152	202	252	302	402	502	652	1002	1252
	OATA	Motor H.P.	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1½	2	2	3	5
	HPC HPM HSS HSSM	Frame Size	1B	1B	1B	1B	1B	1B	1B	1B	11/4B	1½B	1½B	2B	2B	2B	2B
			11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	2	2	21/2	21/2	21/2	21/2
20		Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	1½	2	2	2	2
20		Motor H.P.	1/3	1/3	1/3	1/3	1/3	1/2	1/2	3/4	3/4	1	1½	11/2	2	**3	**5
	HJS	Frame Size	1H	1H	1H	1H	1H	2H	2H	3M	3H	4H	5M	5M	6M	825A	825A
	HJM HEC HEM	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	1½	1½	1½	3	3
	HEM	Discharge	1	1	1	1	1	1	1	1	1	1	11/4	11/4	11/4	21/2	21/2
	CATAI	LOG NO.	13	23	43	63	83	103	153	203	253	303	403	503	653	1003	1253
	CATA	Motor H.P.	3/4	3/4	3/4	3/4	3/4	3/4	1	1½	1½	1½	2	3	3	5	7½
	HPC		1B	1B	1B	1B	1B	1B	1B	1B	11/4B	1½B	1½B	1½B	2B	2B	2B
	HPM HSS HSSM	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	2	2	2	21/2	21/2	21/2
30	HSSM	Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	1½	1½	1½	2	2	2
30		Motor H.P.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1	1	11/2	2	2	5	5	7½
	HJS		3/4 3H	3/4 3H	3H	3H	3H	3H	3H	4H	4H	5H	6H	6M	615A	615A	615A
	HJM HEC	Frame Size								11/4	11/4	1½	1½	11/2	2	2	2
	HEM	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	1 74	1 74	11/4	11/4	11/4	1½	1½	1½
	CATA	Discharge	1	1	1	1		104	154	204	254	304	404	504	654	1004	1254
	CATAI	LOG NO.	14	24	44	64	84		11/2	1½	2	2	3	3	5	7½	71/2
	HPC	Motor H.P.	1	1	1	1	1 1B	1 1B	172 1B	172 1B	1¼B	1½B	1½B	1½B	2B	2B	2B
	I HPM	Frame Size	1B	1B	1B	1B					1½	2	2	2	21/2	21/2	21/2
40	HSS HSSM	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4					2	2	2
40		Discharge	1¼	1¼	11/4	11/4	11/4	11/4	11/4	11/4	11/4	1½	1½	1½			
	HJS	Motor H.P.	1	1	1	1	1	1	1	1½	1½	2	2	3	5	7½	7½
	HJM	Frame Size	4H	4H	4H	4H	4H	4H	4H	5H	5H	6H	7M	610A	610	615J	615J
	HEC	Suction	11/4	1¼	11/4	1¼	1¼	1¼	11/4	1½	1½	1½	2	2	2	2	2
		Discharge		1	1	1	1	1	1	1¼	1¼	1¼	1½	1	1	1	1
	CATA	LOG NO.	15	25	45	65	85	105	155	205	255	305	405	505	655	1005	1255
	HPC	Motor H.P.	1½	1½	1½	1½	1½	1½	2	2	3	3	5	5	5	7½	10
	I HPM	Frame Size	1B	1B	1B	1B	1B	1B	1B	1B	1¼B	1½B	1½B	1½B	2B	2B	2B
	HSS HSSM	Suction	11/4	11/4	1¼	11/4	1¼	11/4	11/4	1¼	1½	2	2	2	2½	2½	21/2
50		Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	11/2	1½	2	2	2
50		Motor H.P.	2	2	2	2	2	2	2	2	2	2	5	5	5	71/2	10
		Eromo Cizo	6H	6H	6H	6H	6H	6H	6H	6H	7H	7H	610A	610A	615J	615J	810A
	HJS HJM	Frame Size	OII														
	HJM HEC HEM	Suction Size	11/2	11/2	1½	1½	11/2	11/2	1½	1½	2	2	2	2	2	2	2

SELECTION TABLE - HP, HSS, HJS and HE (continued from page 10)

PUMP	CAPACI	TY - GPM	1.5	3	6	9_	12	15	22.5	30	37.5	45	60	75	97.5	150	187.5
PSI	E.D.R.		1,000	2,000	4,000	6,000	8,000	10,000	15,000	20,000	25,000	30,000	40,000	50,000	65,000	100,000	125,000
	CATAL	OG NO.	16	26	46	66	86	106	156	206	256	306	406	506	656	1006	1256
	LIDO	Motor H.P.	2	2	2	2	2	2	*3	3	3	3	5	5	71/2	10	10
	HPC	Frame Size	1B	1B	1B	1B	1B	1B	1B	1B	11/4B	11/2B	11/2B	11/2B	2B	2B	2B
	HSS	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	1½	2	2	2	21/2	21/2	21/2
60	HSSM	Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	11/2	11/2	2	2	2
		Motor H.P.	3	3	3	3	3	3	3	5	5	5	5	5	71/2	10	15
	HEC	Frame Size	610A	610A	610A	610A	610A	610A	610A	610A	610A	610A	610A	610A	615A	810A	810A
	HEM	Suction	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Discharge	1	1	1	1	1	1	1	1	1	1	1	1	11/2	1	1
	CATAL	.OG NO.	171/2	271/2	471/2	671/2	871/2	107½	157½	2071/2	2571/2	3071/2	4071/2	5071/2	6571/2	10071/2	1257½
	UDC	Motor H.P.	3	3	3	3	3	3	3	3	5	5	71/2	71/2	71/2	15	15
	HPC	Frame Size	1B	1B	1B	1B	1B	1B	1B	1B	11/4B	1½B	11/2B	11/2B	2B	2B	2B
	HSS	Suction	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	1½	2	2	2	21/2	21/2	21/2
75	HSSM	Discharge	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/4	11/2	11/2	11/2	2	2	2
		Motor H.P.	5	5	5	5	5	5	3	5	5	71/2	71/2	71/2	10	15	15
	HEC	Frame Size	810A	810A	810A	810A	810A	810A	810A	810A	810A	810A	810A	810A	810A	810A	810A
	HEM	Suction	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Discharge	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

^{*}HSS-156 & HSSM-156 ARE 3 HP; HPC-156 & HPM-156 ARE 2 HP **1750 RPM PUMPS

NOTE: WHEN USING TEFC OR EXP. PROOF MOTORS AN INCREASE BY ONE SIZE MOTOR MAY BE NECESSARY.

SELECTION TABLE - HNS 2' N.P.S.H.R.

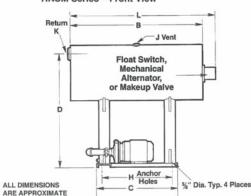
All HNS pumps operate at 3500 RPM and are 2' N.P.S.H.R. at conditions listed.

PU	MP CAP	ACITY GPM	9	15	22.5	30	45	60	75	90	120
PSI	E.D.R.		6,000	10,000	15,000	20,000	30,000	40,000	50,000	60,000	80,000
	CATALO	G NO.	62	102	152	202	302	402	502	602	
		MOTOR H.P.	1/2	1/2	1/2	3/4	1	1 1/2	2	2	
20	HNS	FRAME SIZE	5	5	5	5	5	6	6	6	
	пиэ	SUCTION	11/2	1½	1½	1½	1½	21/2	21/2	21/2	
		DISCHARGE	11/4	11/4	11/4	11/4	1½	2	2	2	
	CATALOG NO.		63	103	153	203	303	403	503	603	
		MOTOR H.P.	3/4	3/4	1	1	1½	3	3	3	
30	HNS	FRAME SIZE	5	5	5	5	5	6	6	6	
	11113	SUCTION	1½	1½	1½	1½	1½	21/2	21/2	21/2	
		DISCHARGE	11/4	11/4	11/4	11/4	11/4	2	2	2	
	CATALO	G NO.	64	104	154	204	304	404	504	604	804
		MOTOR H.P.	1½	1½	1½	1½	3	3	3	5	7½
40	HNS	FRAME SIZE	5	5	5	5	6	6	6	6	6
	TINS	SUCTION	1½	1½	1½	21/2	21/2	21/2	21/2	21/2	21/2
		DISCHARGE	11/4	11/4	11/4	11/4	2	2	2	2	2

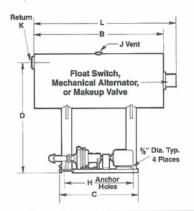
NOTE: WHEN USING TEFC OR EXP. PROOF MOTORS AN INCREASE BY ONE SIZE MOTOR MAY BE NECESSARY.

DIMENSION DATA

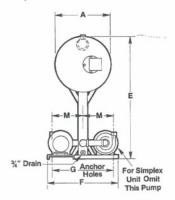
HSS, HSSM, HJS, HJSM, HNS, HNSM Series - Front View



HPC, HPM Series - Front View



HPC, HPM, HSS, HSSM, HJS, HJSM, HNS, HNSM Series - End View



						DIMENS	SIONS						
REC	CEIVER	APPROXIMATE DIMENSIONS IN INCHES											
5	SIZE	Α	В	С	D	E	F	G	Н	J	K	L	M
0.4	INCHES	14	30	30	42	451/4	30	27½	271/2	1	2	36½	13¾
21	CM	35.56	76.20	76.20	106.68	114.81	76.20	69.85	69.85	NPT	NPT	92.71	34.93
40	INCHES	22	30	30	497/8	531/4	30	27½	271/2	11/4	21/2	36½	13¾
49	CM	55.88	76.20	76.20	126.24	135.13	76.20	69.85	69.85	NPT	NPT	92.71	34.93
7.4	INCHES	24	36	36	51½	551/4	32	291/2	33½	1½	3	421/2	14
71	CM	60.96	91.44	91.44	130.81	140.21	81.28	74.93	85.09	NPT	NPT	107.95	35.56
447	INCHES	24	60	36	51	55½	32	29½	331/2	2	4	661/2	14
117	CM	60.96	152.40	91.44	129.54	140.97	81.28	74.93	85.09	NPT	NPT	168.91	35.56
200	INCHES	32	60	50	58	63¾	50	471/2	471/2	2	5	661/2	22
209	CM	81.28	152.40	127.0	147.32	161.80	127.0	120.65	120.65	NPT	NPT	168.91	55.88
	INCHES	36	60	50	62	677/8	50	471/2	471/2	2	5	661/2	22
260	CM	91.44	152.40	127.0	157.48	172.40	127.0	120.65	120.65	NPT	NPT	168.91	55.88
070	INCHES	36	84	50	62	68	50	471/2	471/2	2	5	901/2	22
370	CM	91.44	213.36	127.0	157.48	172.72	127.0	120.65	120.65	NPT	NPT	229.87	55.88
500	INCHES	42	84	50	68	74	50	471/2	471/2	2	5	901/2	22
500	CM	106.68	213.36	127.0	172.72	187.96	127.0	120.65	120.65	NPT	NPT	229.87	55.88
050	INCHES	42	108	50	68	74	50	471/2	471/2	2	5	114½	22
650	CM	106.68	274.32	127.0	172.72	187.96	127.0	120.65	120.65	NPT	NPT	290.83	55.88
750	INCHES	48	96	76	74	80	56	53½	73½	2	5	1021/2	25
750	CM	121.92	243.84	193.04	187.96	203.20	142.24	135.89	186.69	NPT	NPT	260.35	63.50
1000	INCHES	48	132	76	74	80	56	53½	73½	2	5	138½	25
1000	CM	121.92	335.28	193.04	187.96	203.20	142.24	135.89	186.69	NPT	NPT	351.79	63.50

"HN" Series Notes:

Discharge is located on vertical pump centerline.
For dimension "M" deduct 3" for 114" discharge pumps and deduct 1" for 2" discharge pumps.

Skidmore **

1875 DEWEY AVENUE

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