

SPEC SHEET 1

B,C Heavy Oil

Type HPR-(E)M

PUMP TYPE	Bore		50 Hz						60 Hz						Piping Shape		
	Suc	Dis	Speed	1MPa		1.5MPa		2MPa		Speed	1MPa		1.5MPa			2MPa	
	B	B		Capacity	Motor	Capacity	Motor	Capacity	Motor		Capacity	Motor	Capacity	Motor			
	(A)	(A)	min ⁻¹	L/h	kW × P	L/h	kW × P	L/h	kW × P	min ⁻¹	L/h	kW × P	L/h	kW × P		L/h	kW × P
HPR-2(E)M-14	3/4	1/2	1450	230	0.4 × 4	225	0.75 × 4	220	0.75 × 4	1750	275	0.4 × 4	270	0.75 × 4	260	0.75 × 4	
HPR-2(E)M-24	(20)	(15)	1450	460	0.75 × 4	450	1.5 × 4	440	1.5 × 4	1750	550	0.75 × 4	540	1.5 × 4	530	1.5 × 4	
HPR-3(E)M-18	1	3/4	1450	680	0.75 × 4	675	1.5 × 4	660	1.5 × 4	1750	825	0.75 × 4	810	1.5 × 4	790	1.5 × 4	
HPR-3(E)M-22	(25)	(20)	1450	880	0.75 × 4	860	1.5 × 4	840	1.5 × 4	1750	1050	0.75 × 4	1030	1.5 × 4	1010	2.2 × 4	
HPR-4(E)M-22	1 1/2	1	1450	1150	1.5 × 4	1125	1.5 × 4	1100	2.2 × 4	1750	1370	1.5 × 4	1345	2.2 × 4	1320	2.2 × 4	
HPR-4(E)M-26			1450	1370	1.5 × 4	1345	2.2 × 4	1320	2.2 × 4	1750	1650	1.5 × 4	1615	2.2 × 4	1580	3.7 × 4	
HPR-4(E)M-30			(40)	(25)	1450	1600	1.5 × 4	1570	2.2 × 4	1540	3.7 × 4	1750	1920	1.5 × 4	1885	2.2 × 4	1850
HPR-6(E)M-32	2	1 1/2	960	1830	1.5 × 6	1795	2.2 × 6	1760	3.7 × 6	1150	2200	2.2 × 6	2155	3.7 × 6	2110	3.7 × 6	
HPR-6(E)M-36			960	2060	2.2 × 6	2020	3.7 × 6	1980	3.7 × 6	1150	2480	2.2 × 6	2430	3.7 × 6	2380	5.5 × 6	
HPR-6(E)M-40			(50)	(40)	960	2300	2.2 × 6	2250	3.7 × 6	2200	5.5 × 6	1150	2750	2.2 × 6	2695	3.7 × 6	2640

SPEC SHEET 2

Kerosene, A Heavey Oil

Type HPR-(E)M

PUMP TYPE	Bore		50 Hz						60 Hz						Piping Shape		
	Suc	Dis	Speed	0.5MPa		1MPa		1.5MPa		Speed	0.5MPa		1MPa			1.5MPa	
	B	B		Capacity	Motor	Capacity	Motor	Capacity	Motor		Capacity	Motor	Capacity	Motor			
	(A)	(A)	min ⁻¹	L/h	kW × P	L/h	kW × P	L/h	kW × P	min ⁻¹	L/h	kW × P	L/h	kW × P		L/h	kW × P
HPR-2(E)M-14	3/8	3/8	1450	230	0.2 × 4	200	0.4 × 4	180	0.75 × 4	1750	275	0.2 × 4	240	0.4 × 4	220	0.75 × 4	
HPR-2(E)M-24	(10)	(10)	1450	460	0.4 × 4	410	0.75 × 4	360	1.5 × 4	1750	550	0.4 × 4	500	0.75 × 4	450	1.5 × 4	
HPR-3(E)M-18	1/2	1/2	1450	680	0.75 × 4	620	0.75 × 4	540	1.5 × 4	1750	825	0.75 × 4	750	0.75 × 4	650	1.5 × 4	
HPR-3(E)M-22	(15)	(15)	1450	880	0.75 × 4	770	1.5 × 4	660	1.5 × 4	1750	1050	0.75 × 4	930	1.5 × 4	800	1.5 × 4	
HPR-4(E)M-22	3/4	3/4	1450	1150	0.75 × 4	1030	1.5 × 4	890	1.5 × 4	1750	1370	1.5 × 4	1240	1.5 × 4	1070	2.2 × 4	
HPR-4(E)M-26			1450	1370	1.5 × 4	1220	1.5 × 4	1050	2.2 × 4	1750	1650	1.5 × 4	1470	1.5 × 4	1260	2.2 × 4	
HPR-4(E)M-30			(20)	(20)	1450	1600	1.5 × 4	1400	1.5 × 4	1200	2.2 × 4	1750	1920	1.5 × 4	1700	2.2 × 4	1450
HPR-6(E)M-32	1	1	960	1830	1.5 × 6	1640	2.2 × 6	1410	2.2 × 6	1150	2200	1.5 × 6	1970	2.2 × 6	1690	3.7 × 6	
HPR-6(E)M-36			960	2060	1.5 × 6	1850	2.2 × 6	1580	3.7 × 6	1150	2480	2.2 × 6	2220	2.2 × 6	1900	3.7 × 6	
HPR-6(E)M-40			(25)	(25)	960	2300	1.5 × 6	2050	2.2 × 6	1760	3.7 × 6	1150	2750	2.2 × 6	2460	3.7 × 6	2110

SPEC SHEET 3

Lubricant Oil

Type HPR-(E)M

Pump Type	Bore		50 Hz						60 Hz						Piping Shape		
	Screwed	Dis	Speed	1MPa		1.5MPa		2MPa		Speed	1MPa		1.5MPa			2MPa	
				Capacity	Motor	Capacity	Motor	Capacity	Motor		Capacity	Motor	Capacity	Motor			
			Suc	min ⁻¹	L/min	kW × P	L/min	kW × P	L/min	kW × P	min ⁻¹	L/min	kW × P	L/min		kW × P	L/min
HPR-2(E)M-24	3/8	3/8	960	6	0.4 × 6	5.5	0.75 × 6	5	0.75 × 6	1150	7	0.4 × 6	6.5	0.75 × 6	6	0.75 × 6	
HPR-3(E)M-30	1/2	1/2	960	15	0.75 × 6	14.5	1.5 × 6	14	1.5 × 6	1150	18	0.75 × 6	17.5	1.5 × 6	17	1.5 × 6	
HPR-4(E)M-38	3/4	3/4	960	25	1.5 × 6	24.5	2.2 × 6	24	2.2 × 6	1150	30	1.5 × 6	29	2.2 × 6	28	2.2 × 6	
HPR-6(E)M-46	1	1	960	50	2.2 × 6	49	3.7 × 6	48	5.5 × 6	1150	60	3.7 × 6	58	3.7 × 6	56	5.5 × 6	

PUMP Size table

mm

Pump Type	A	B	C	D	E	F	G	H	I	L	M	N	Q	R	S	T	U	W	Y	Z	weight kg
HPR-2(M)	101	90	90	3/8	80	50	18	77	130	225	110	80	24	124	12	4	2.5	4	20	11	5
HPR-3(M)	130	100	105	1/2	80	50	18	87	151	287	110	80	32	157	16	5	3	5	28	11	8
HPR-4(M)	157	120	125	3/4	100	60	18	103	180	331	130	100	35	174	18	6	3.5	6	28	11	12
HPR-6(M)	213	150	160	1	120	80	25	131	228	443	160	120	50	230	28	7	4	8	45	14	22

Note: The dimensions are subject to change for improvement or other reasons.

Please check with us before starting designing.

Coupling Drive Size table

mm

PUMP TYPE	Motor kW × P			Bore		Bore			A	C	F	H	L	M	N1	N2	P	R	T1	T2	V	X	Y	Z	
				D	Screwed	Flange	D	Flange																	
	4P	6P	Frame		B1	B2																			Suc
HPR-2(M)	0.2	-	63	3/8	90	124	3/4	1/2	140	101	122	175	103	432	430	65	65	300	124	230	230	45	-15	15	11 (M10)
	0.4	-	71								122	175	120	464	430	65	65	300		230	230	45	0	15	
	0.75	0.4	80								122	175	140	497	430	65	65	300		230	230	45	0	15	
	1.5	0.75	90L								122	175	168.5	547	430	65	85	300		230	230	45	+20	15	
HPR-3(M)	0.4	-	71	1/2	100	138	1	3/4	166	130	132	197	120	526	430	65	65	300	157	230	230	45	0	15	11 (M10)
	0.75	0.4	80								132	197	140	559	430	65	65	300		230	230	45	+10	15	
	1.5	0.75	90L								147	212	168.5	609	540	100	100	340		190	300	60	+10	25	
	2.2	1.5	100L								147	212	193	650	540	100	100	340		190	300	60	+25	25	
HPR-4(M)	0.75	0.4	80	3/4	120	162	1 1/2	1	190	157	163	240	140	603	540	100	100	340	174	190	300	60	0	25	11 (M10)
	1.5	0.75	90L								163	240	168.5	653	540	100	100	340		190	300	60	+20	25	
	2.2	1.5	100L								163	240	193	694	540	100	100	340		190	300	60	+30	25	
	3.7	2.2	112M								163	247	200	708	540	100	100	340		190	300	60	+40	25	
HPR-6(M)	-	1.5	100L	1	150	192	2	1 1/2	220	213	188	285	193	806	600	90	130	380	230	210	290	57	+20	27	14 (M12)
	-	2.2	112M								198	295	200	820	700	100	150	450		230	330	67	-15	27	
	-	3.7	132S								198	295	239	889	700	100	150	450		230	330	67	+10	27	
	-	5.5	132M								198	295	258	927	700	100	150	450		230	330	67	+20	27	

Note: 1. The dimensions are subject to change for improvement or other reasons.

Please check with us before starting designing.

2. The Installation diagram is exclusively for installing the JEM 1180 (JIS C 4210)TEFC E type motor.

The base dimensions are the same for all motors having the same frame number.

3. The X dimension indicates the position of the bore diameter. With the anchor bolt hole as the base point, + (plus) indicates that the position of the bore diameter is out of alignment to the left side, - (minus) indicates that it is out of alignment to the right side, and 0 (zero) indicates that it is on the center line