VARIABLE-FREQUENCY MULTISTAGE PUMPS “BP-HBMI”



TECHNICAL FEATURES

- Based on the HBMI series, with an integrated frequency-converter controller, check valve, pipework, pressure tank and pressure sensor for variable-frequency constant-pressure operation and automatic control.
- Mainly used for domestic and small commercial water supply and pressure boosting in single-family villas, terraced houses, apartment blocks, small residential areas, schools, small hotels and small office buildings.
- Also widely used for liquid transfer and circulation and in cooling systems in light industry.

MOTOR

- Two-pole induction motor (n = 2850 rpm)
- Insulation class F; protection IPX5
- Continuous service S1
- Thermal protector on single-phase versions
- Single-phase 220 V / 50 Hz (60 Hz on request)
- Three-phase 380 V / 50 Hz (60 Hz on request)

WORKING CONDITION

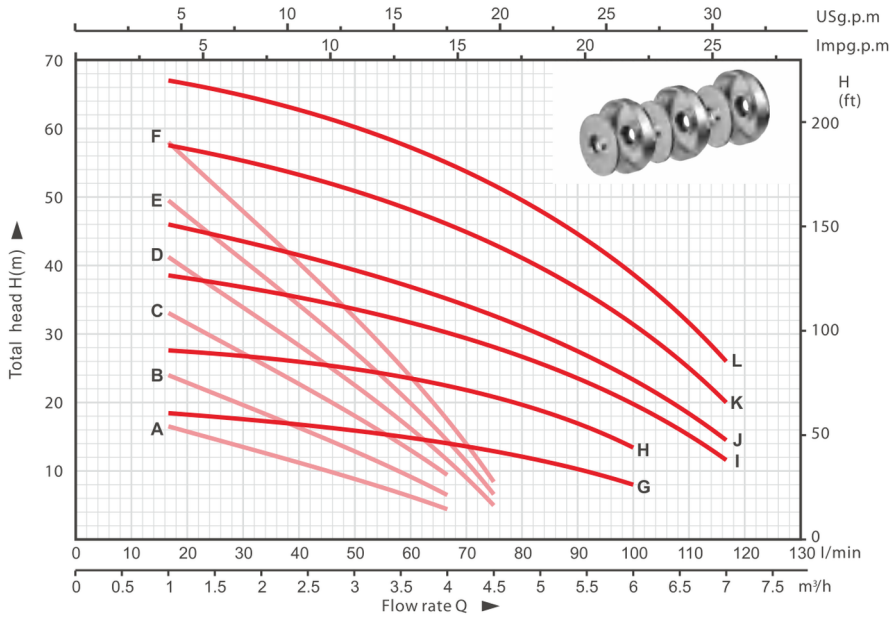
- Liquid temperature up to 60 °C
- Ambient temperature up to 40 °C
- Total suction lift up to 8 m

MATERIALS

COMPONENT	CONSTRUCTION
Pump body	Stainless steel
Pump cover	Aluminium
Pump support	Aluminium
Motor housing	Aluminium
Impeller	AISI 304 SS
Motor shaft	AISI 304 SS
Mechanical seal	SiC / Graphite

VARIABLE-FREQUENCY MULTISTAGE PUMPS “BP-HBMI”

PERFORMANCE CHART AT n = 2850 RPM



BP-HBMI(m)2-2 – BP-HBMI(m)2-7

NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	0	1	1.5	2	2.5	3	3.5	4	4.5
				Q (l/min)	0	16.7	25	33.3	41.7	50	58.3	66.7	75
A	BP-HBMI(m)2-2	0.25	0.34	H (m)	18	16.5	15.5	13.5	12.5	10.5	7.5	4.5	
B	BP-HBMI(m)2-3	0.37	0.5	H (m)	27	24	22	19.5	17	14	10.5	6.5	
C	BP-HBMI(m)2-4	0.37	0.5	H (m)	36.5	33	30	26.5	23	18.5	14	9.5	
D	BP-HBMI(m)2-5	0.55	0.75	H (m)	46	41	37.5	33.5	29	23.5	18	12	5
E	BP-HBMI(m)2-6	0.75	1	H (m)	56.5	49.5	46	42	36	30	23.5	15.5	6.5
F	BP-HBMI(m)2-7	0.75	1	H (m)	65	58	53.5	48	42.5	36	28	18.5	8.5

VARIABLE-FREQUENCY MULTISTAGE PUMPS “BP-HBMI”

BP-HBMI(m)4-2 – BP-HBMI(m)4-7

NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	0	1	2	3	4	4.5	5	6	7
				Q (l/min)	0	16.7	33.3	50	66.7	75	83.3	100	116.7
G	BP-HBMI(m)4-2	0.37	0.5	H (m)	19	18.5	17.5	16	14	13	11.5	8	
H	BP-HBMI(m)4-3	0.55	0.75	H (m)	29	27.5	26.5	25	21.5	20.5	18.5	13.5	
I	BP-HBMI(m)4-4	0.75	1	H (m)	39	38.5	37	34.5	29.5	28	25	18.5	11.5
J	BP-HBMI(m)4-5	0.75	1	H (m)	47	46	44	40.5	35	32.5	29.5	22.5	14.5
K	BP-HBMI(m)4-6	1.1	1.5	H (m)	58	57.5	55	51	43	42.5	38.5	30	20
L	BP-HBMI(m)4-7	1.3	1.74	H (m)	70	67	64	60	53.5	51.5	47	37	26

TECHNICAL DATA

NO.	MODEL	INLET / OUTLET (inch)	N.W. (kg)	L × W × H (mm)
A	BP-HBMI(m)2-2	1" × 1"	9	332 × 190 × 540
B	BP-HBMI(m)2-3	1" × 1"	10	332 × 190 × 540
C	BP-HBMI(m)2-4	1" × 1"	10.8	350 × 190 × 540
D	BP-HBMI(m)2-5	1" × 1"	11.8	368 × 190 × 540
E	BP-HBMI(m)2-6	1" × 1"	14.3	386 × 190 × 540
F	BP-HBMI(m)2-7	1" × 1"	15	404 × 190 × 540
G	BP-HBMI(m)4-2	1¼" × 1"	10	332 × 190 × 540
H	BP-HBMI(m)4-3	1¼" × 1"	11	332 × 190 × 540
I	BP-HBMI(m)4-4	1¼" × 1"	13.5	373 × 190 × 540
J	BP-HBMI(m)4-5	1¼" × 1"	14.2	391 × 190 × 540
K	BP-HBMI(m)4-6	1¼" × 1"	16.6	417 × 178 × 545
L	BP-HBMI(m)4-7	1¼" × 1"	17.9	435 × 178 × 545

Performance values at n = 2850 rpm, 50 Hz. Specifications are subject to change without notice.