



EBARA

Japanese Technology since 1912

Multistage Self-Priming Stainless Steel Centrifugal Pump **Type MLS**

APPLICATIONS

- Domestic booster pump
- Commercial water supply
- Pressurization
- General water supply

FEATURES

- High pressure up to 7.5 bar
- Capacity up to 170l/min (10.2m³/h)
- Low noise design
- Good self-priming feature

MATERIALS

- Pump housing in AISI304 stainless steel
- Impellers in AISI304 stainless steel
- Diffuser in SABIC PPO (Noryl)
- Mechanical seal in Graphite / SiC / NBR /304
- IP55 motor
- Built-in thermal protector available for single phase motor
- Available in 1/50/240V or 3/50/415V

IDENTIFICATION CODE

ML S 60 2 M

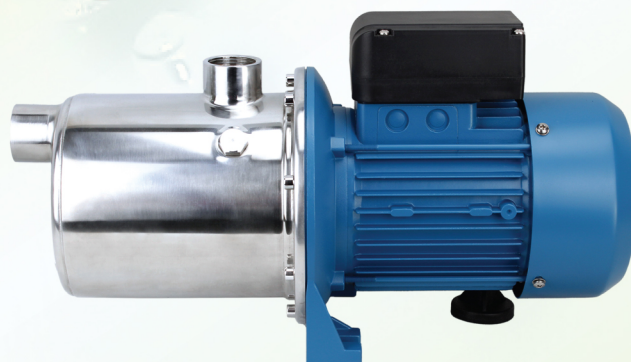
M (Single Phase)

Stages

Flow in L/min

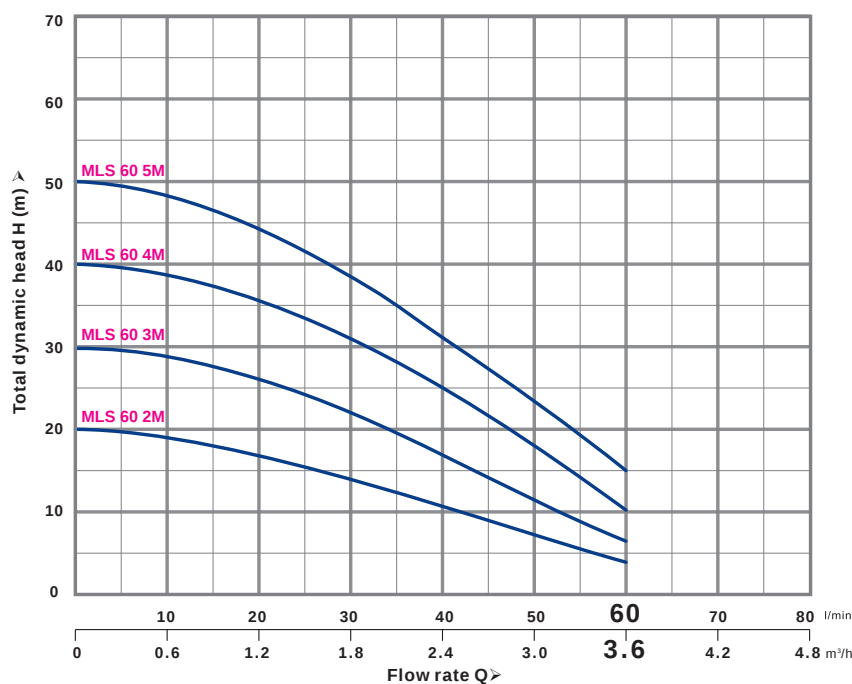
Self-priming

Series



PERFORMANCE CHART

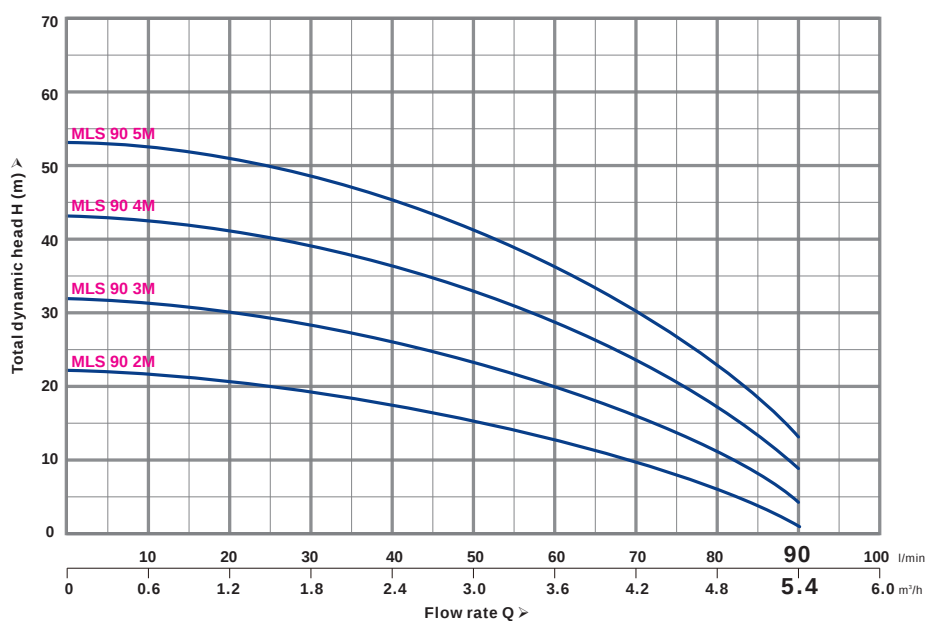
60L/min



PUMP MODEL		MOTOR		Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6
Single phase	Three phase	KW	HP	l/min	0	10	20	30	40	50	60
MLS 60 2M	MLS 60 2	0.37	0.5	H (m)	20	19	17	14	11	7	4
MLS 60 3M	MLS 60 3	0.5	0.65		30	29	26	22	17	12	7
MLS 60 4M	MLS 60 4	0.7	0.95		40	39	35	31	25	18	10
MLS 60 5M	MLS 60 5	0.85	1.15		50	48	44	38	31	24	15

Q=FLOW RATE H=TOTAL DYNAMIC HEAD IN METERS

90L/min

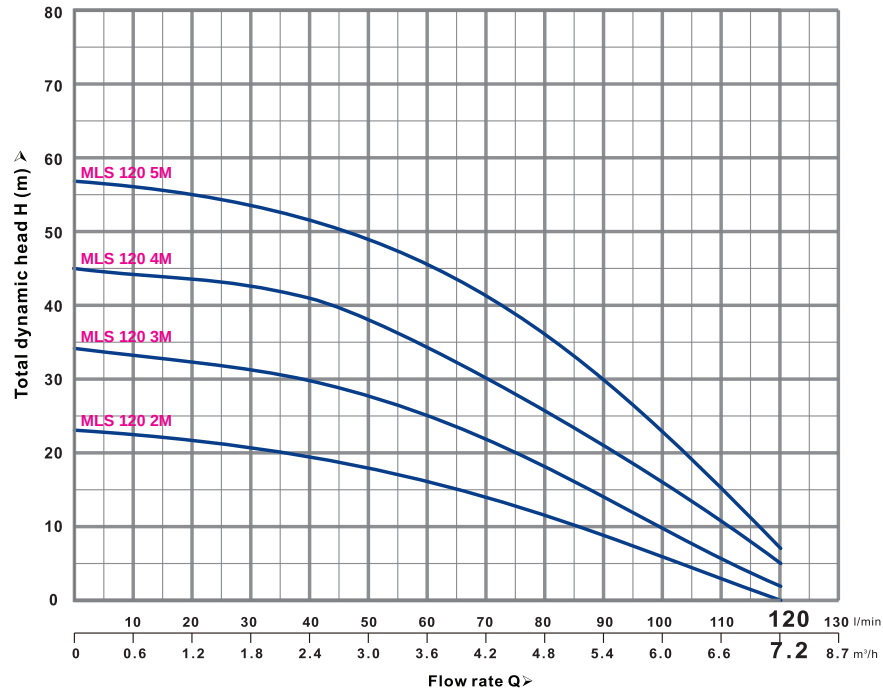


PUMP MODEL		MOTOR		Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4
Single phase	Three phase	KW	HP	l/min	0	10	20	30	40	50	60	70	80	90
MLS 90 2M	MLS 90 2	0.45	0.6	H (m)	22	21	20	19	17	15	13	10	6	2
MLS 90 3M	MLS 90 3	0.75	0.95		32	31	30	28	26	23	20	16	11	4
MLS 90 4M	MLS 90 4	0.85	1.15		43	42	41	39	36	33	29	24	17	9
MLS 90 5M	MLS 90 5	1.05	1.4		53	52	51	49	45	41	36	30	23	13

Q=FLOW RATE H=TOTAL DYNAMIC HEAD IN METERS

PERFORMANCE CHART

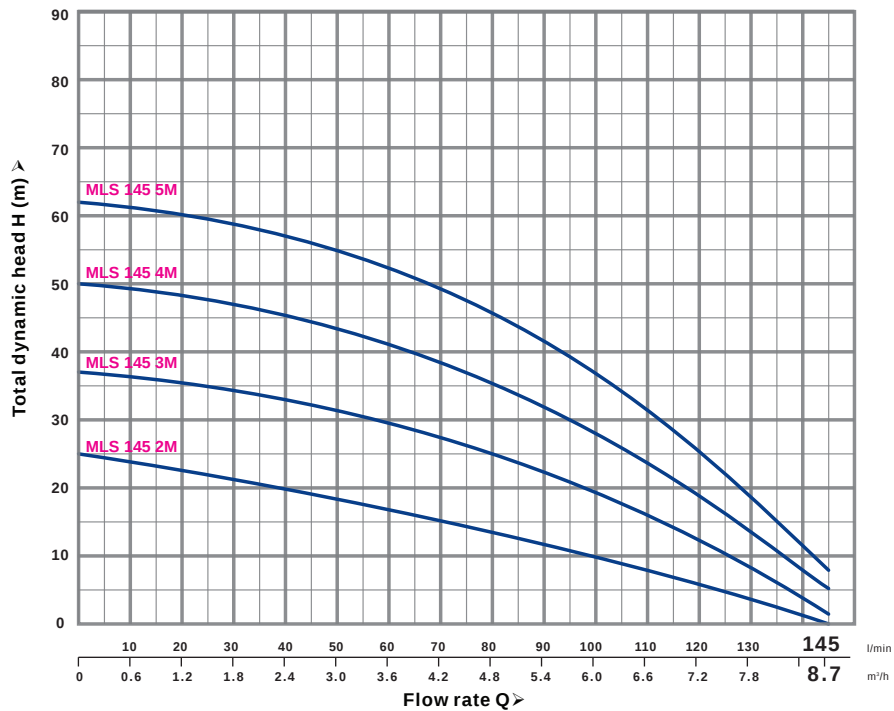
120L/min



PUMP MODEL		MOTOR		Q	0	1.2	2.4	3.6	4.8	6.0	7.2
Single phase	Three phase	KW	HP	I/min	0	20	40	60	80	100	120
MLS120 2M	MLS120 2	0.55	0.75	H (m)	23	22	19	17	12	6	0
MLS120 3M	MLS120 3	0.75	1.0		34	32	30	25	18	10	2
MLS120 4M	MLS120 4	1.10	1.3		45	43	41	34	26	16	5
MLS120 5M	MLS120 5	1.3	1.65		57	55	52	45	36	22	7

Q=FLOW RATE H=TOTAL DYNAMIC HEAD IN METERS

145L/min

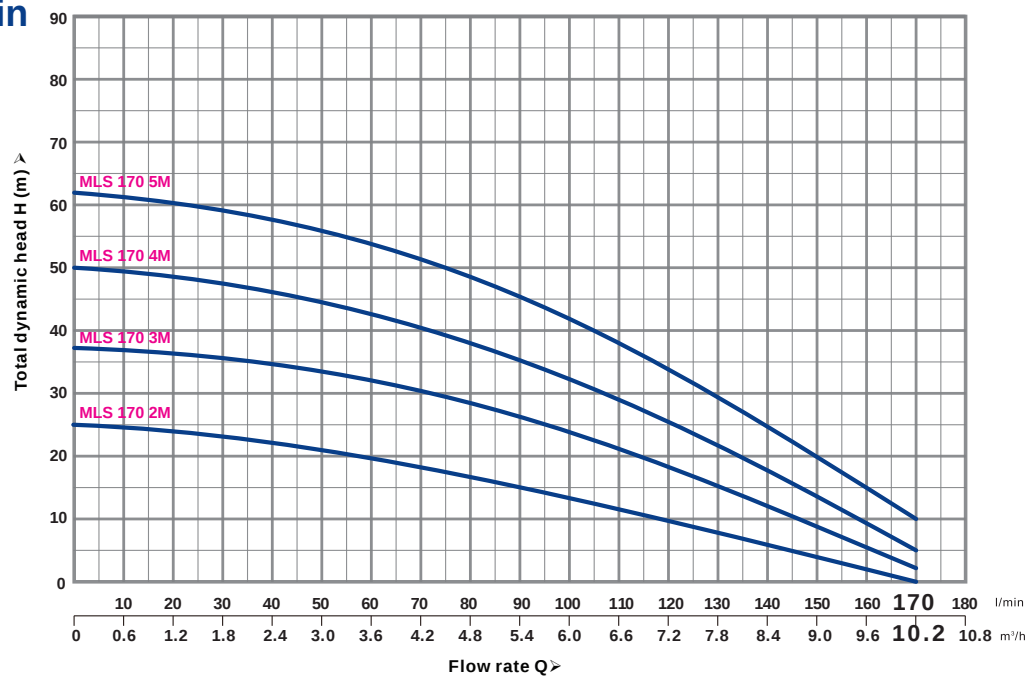


PUMP MODEL		MOTOR		Q	0	1.2	2.4	3.6	4.8	6.0	7.2	7.8	8.7
Single phase	Three phase	KW	HP	I/min	0	20	40	60	80	100	120	130	145
MLS 145 2M	MLS 145 2	0.7	0.95	H (m)	25	23	20	17	14	10	6	4	0
MLS 145 3M	MLS 145 3	0.95	1.25		37	35	33	30	25	19	13	8	2
MLS 145 4M	MLS 145 4	1.3	1.65		50	48	45	41	35	28	18	14	5
MLS 145 5M	MLS 145 5	1.5	2.0		62	60	57	52	46	37	25	19	7

Q=FLOW RATE H=TOTAL DYNAMIC HEAD IN METERS

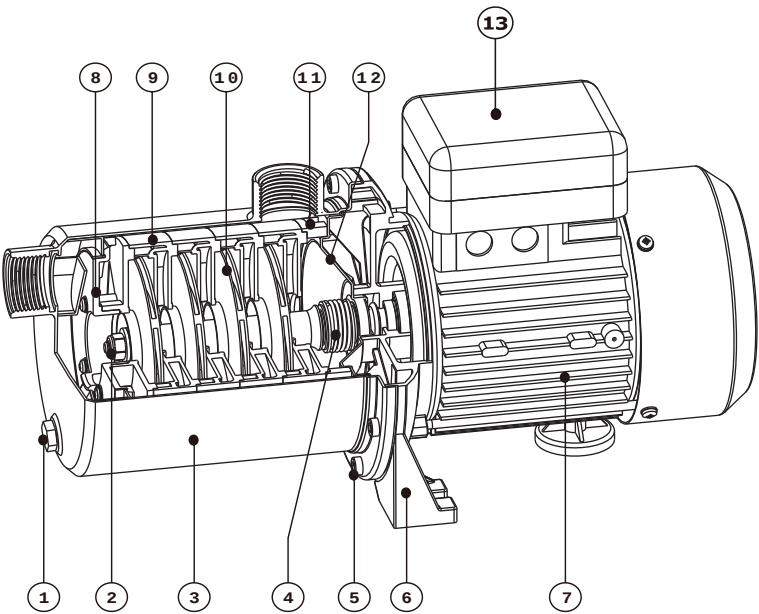
PERFORMANCE CHART

170L/min



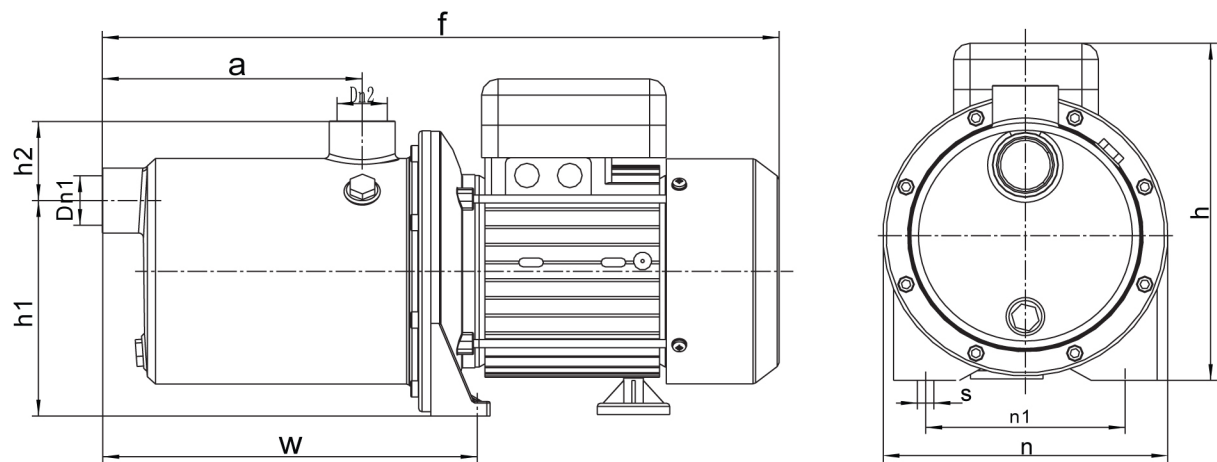
PUMP MODEL	INPUT			OUTPUT			Q m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.2
	KW	KW	HP	KW	KW	HP		0	20	40	60	80	100	120	140	160	170
MLS 170 2M	1.0	0.75	1.0	H (m)	25	24	23	20	17	13	10	6	2	0			
MLS 170 3M	1.4	1.1	1.45		37	36	35	32	28	23	18	12	6	2			
MLS 170 4M	1.8	1.4	1.85		50	49	46	43	38	32	25	17	9	5			
MLS 170 5M	2.2	1.65	2.2		62	60	58	54	48	42	34	25	15	10			

SECTIONAL VIEW



Item	Description
1	Prime and drain plugs
2	Nut
3	Pump housing
4	Mechanical seal
5	Screw
6	Motor front cover
7	Motor
8	Self-priming Cover
9	Diffuser 1
10	Impeller
11	Discharge Guider
12	Cover board
13	Terminal box

DIMENSION



PUMP MODEL		Dn1	Dn2	DIMENSION [mm]									Weight (kg)
Single phase	Three phase			a	f	h	h1	h2	n	n1	w	s	
MLS 60 2M	MLS 60 2	1"	1"	104	338	200	132	50	173	120	171	9	8.4
MLS 60 3M	MLS 60 3	1"	1"	128.5	362.5	200	132	50	173	120	195.5	9	9.2
MLS 60 4M	MLS 60 4	1"	1"	153	410.5	201	132	50	173	120	220	9	10.3
MLS 60 5M	MLS 60 5	1"	1"	177.5	435	210	132	50	173	120	244.5	9	10.7
MLS 90 2M	MLS 90 2	1"	1"	104	338	200	132	50	173	120	171	9	8.2
MLS 90 3M	MLS 90 3	1"	1"	128.5	386	210	132	50	173	120	195.5	9	9.4
MLS 90 4M	MLS 90 4	1"	1"	153	410.5	210	132	50	173	120	220	9	10.7
MLS 90 5M	MLS 90 5	1"	1"	177.5	435	210	132	50	173	120	244.5	9	12.0
MLS 120 2M	MLS 120 2	1 1/4"	1"	104	361.5	210	132	50	173	120	171	9	9.2
MLS 120 3M	MLS 120 3	1 1/4"	1"	128.5	386	210	132	50	173	120	195.5	9	9.6
MLS 120 4M	MLS 120 4	1 1/4"	1"	153	410.5	210	132	50	173	120	220	9	11.3
MLS 120 5M	MLS 120 5	1 1/4"	1"	177.5	465	210	132	50	173	120	244.5	9	15.8
MLS 145 2M	MLS 145 2	1 1/4"	1"	104	361.5	210	132	50	173	120	171	9	8.6
MLS 145 3M	MLS 145 3	1 1/4"	1"	128.5	386	210	132	50	173	120	195.5	9	10.5
MLS 145 4M	MLS 145 4	1 1/4"	1"	153	440.5	210	132	50	173	120	220	9	14.7
MLS 145 5M	MLS 145 5	1 1/4"	1"	177.5	476	234	133	50	173	120	260	10	18.2
MLS 170 2M	MLS 170 2	1 1/4"	1 1/4"	104	361.5	210	132	50	173	120	171	9	10.8
MLS 170 3M	MLS 170 3	1 1/4"	1 1/4"	128.5	386	210	132	50	173	120	195.5	9	11.4
MLS 170 4M	MLS 170 4	1 1/4"	1 1/4"	153	451.5	234	133	50	173	120	235.5	10	17.4
MLS 170 5M	MLS 170 5	1 1/4"	1 1/4"	177.5	476	234	133	50	173	120	260	10	18.5

* Dimensional details are provided for reference only

ALSO AVAILABLE FOR SELF-PRIMING PUMPING APPLICATION**MHS****MHSS****MLH (Non Self-priming)**

* Dimensional details are provided for reference only.

* All specifications are subject to change without prior notice.



EBARA Pumps Malaysia Sdn Bhd
 6, Jalan TP3, UEP Subang Jaya Industrial Park,
 47620 Subang Jaya, Selangor, Malaysia.
 Tel : 03-8023 6622 Fax : 03-8023 9355
 Email : sales.epm@ebara.com
 Website : www.ebara.com.my



Authorised dealer:

