



MASTERFLOW

HORIZONTAL MULTISTAGE STAINLESS STEEL CENTRIFUGAL PUMP



Product of Italy

MCI SERIES

2,4,8,12,14,16,20



STATE OF THE ART TECHNOLOGY

The Suction port and Discharge port are manufactured with (Loss - Wax) casting stainless steel which provide the strongest threaded connection to avoid the leakage of the water or any damage it may caused during the piping installation.



APPLICATIONS

MCI series pump is the most versatile, durable and high efficiency close couple pump in the industry.

FEATURES

Pump

- The pump is compact close couple with motor on the a steel base.
- The maximum flow rate is up to 30 m³/h
- The maximum head is up to 78 meter.
- The maximum liquid temperature up to 110 °C
- All vital parts which contact with liquid are made of stainless steel AISI304 in MCI version
- Mechanical seal is standardize with SiliconCarbide/Carbon/Viton is also available on request.

Motor

- The motor is induction squirrel cage, TEFC motor
- The winding is made from 100% copper enamel wire with high efficiency winding system.
- The insulation is class F insulation with protection degree of IP55
- The single phase motor is made up to 3 HP 220V 50Hz which provided with built-in overload.
- The three phase motor is made up to 5.5 HP 3x220/380V 50Hz which overload is to be provided by the user.

- Liquid transfer for longer distance or high head
- Package booster system for small up to medium size of building, apartment, hotel & condominium
- Cooling system
- Circulation system
- Water filtration, R.O. system and water purification.

- Refrigeration system or cold storage
- Home pump water supply
- General purpose liquid pumping in all kind of industries
- Transfer of mild chemical solution.
- Thank to the high efficiency of MCI Series, the MCI pump can be powered by solar energy which can save a lot of solar panel for your investment due to the extreme performance of the pump.

The pumps are designed to cover for various application to cover the broadest industries as follow:-



MCI SERIES

Pump and motor are integrated in a compact and userfriendly design fitted to a base plate making the pumps suitable for installation in compact systems.



OPERATING CONDITIONS

Liquid temperature range: *0 °C to +90 °C,
Max. ambient temperature: 40 °C.

maximum liquid temperature is up to 110 °C.
The maximum operating pressure depends on the temperature of the pumped liquid.

- **Min. inlet pressure:** According to the NPSH curve plus a safety margin of 0.5 m.
- **Max. inlet pressure:** Limited by the max. operating pressure.

TABLE OF MATERIALS

COMPONENTS	MATERIAL OF CONSTRUCTION
	MCI
Suction Chamber	AISI 304
Discharge chamber	AISI 304
Diffuser	AISI 304
Impeller	AISI 304
Pump shaft	AISI 304
Mechanical seal	Carbon / Ceramic / Viton*
O-ring	PTFE (Teflon)

*Silicon Carbide/Carbon/Viton is also available on request.

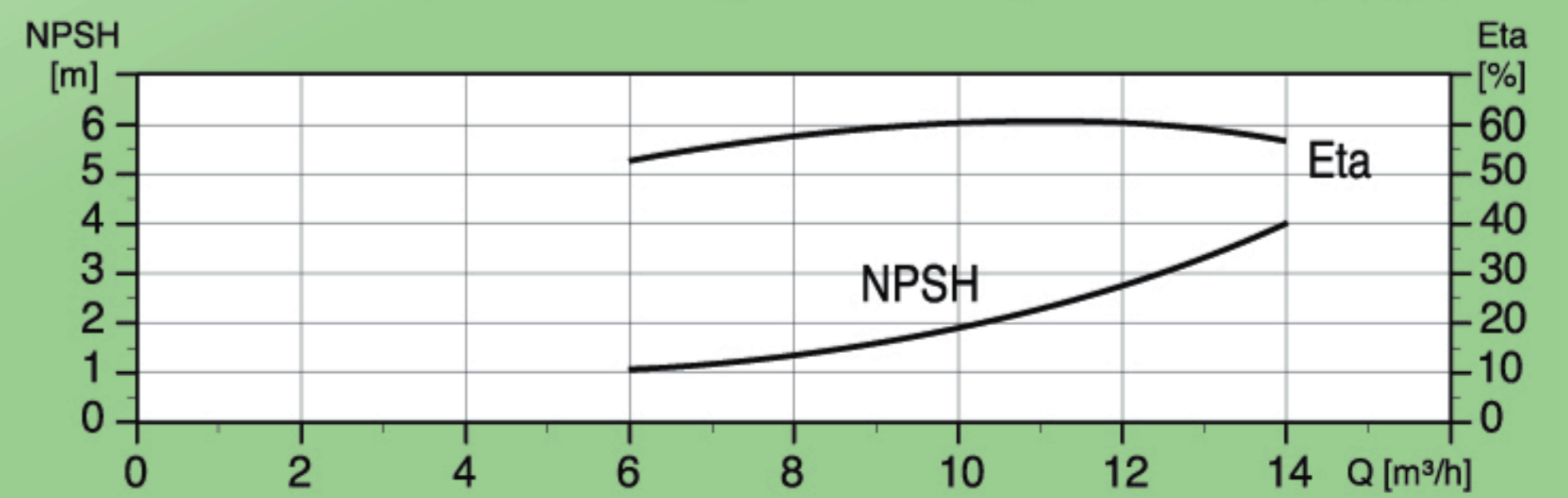
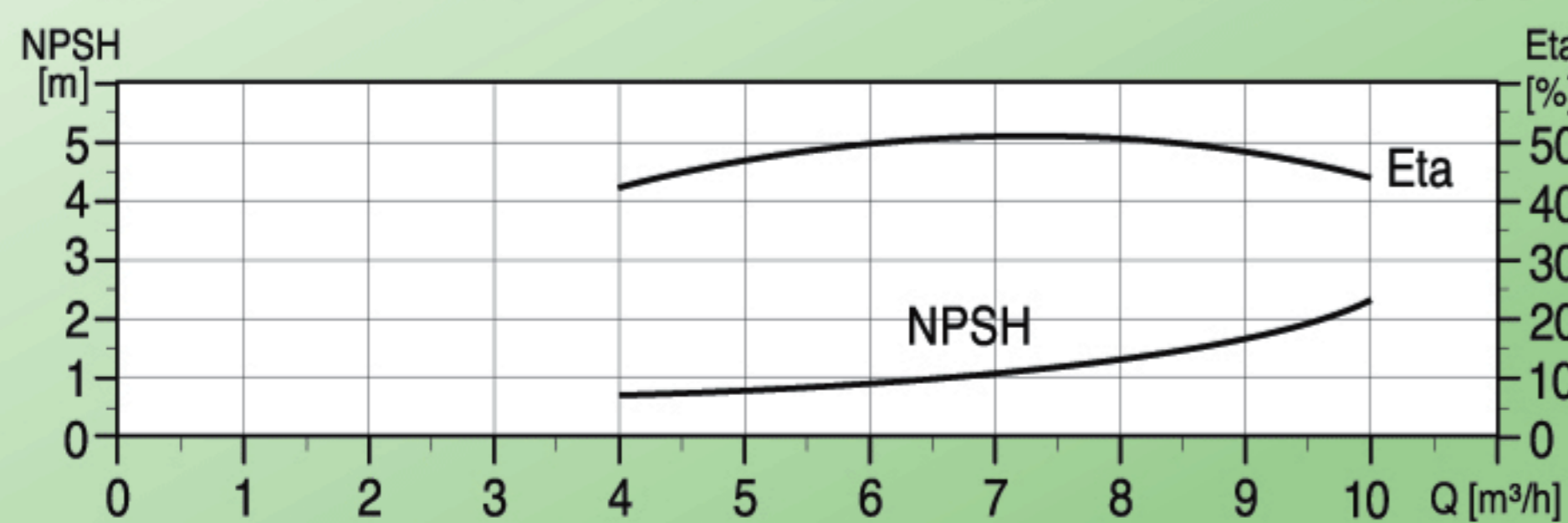
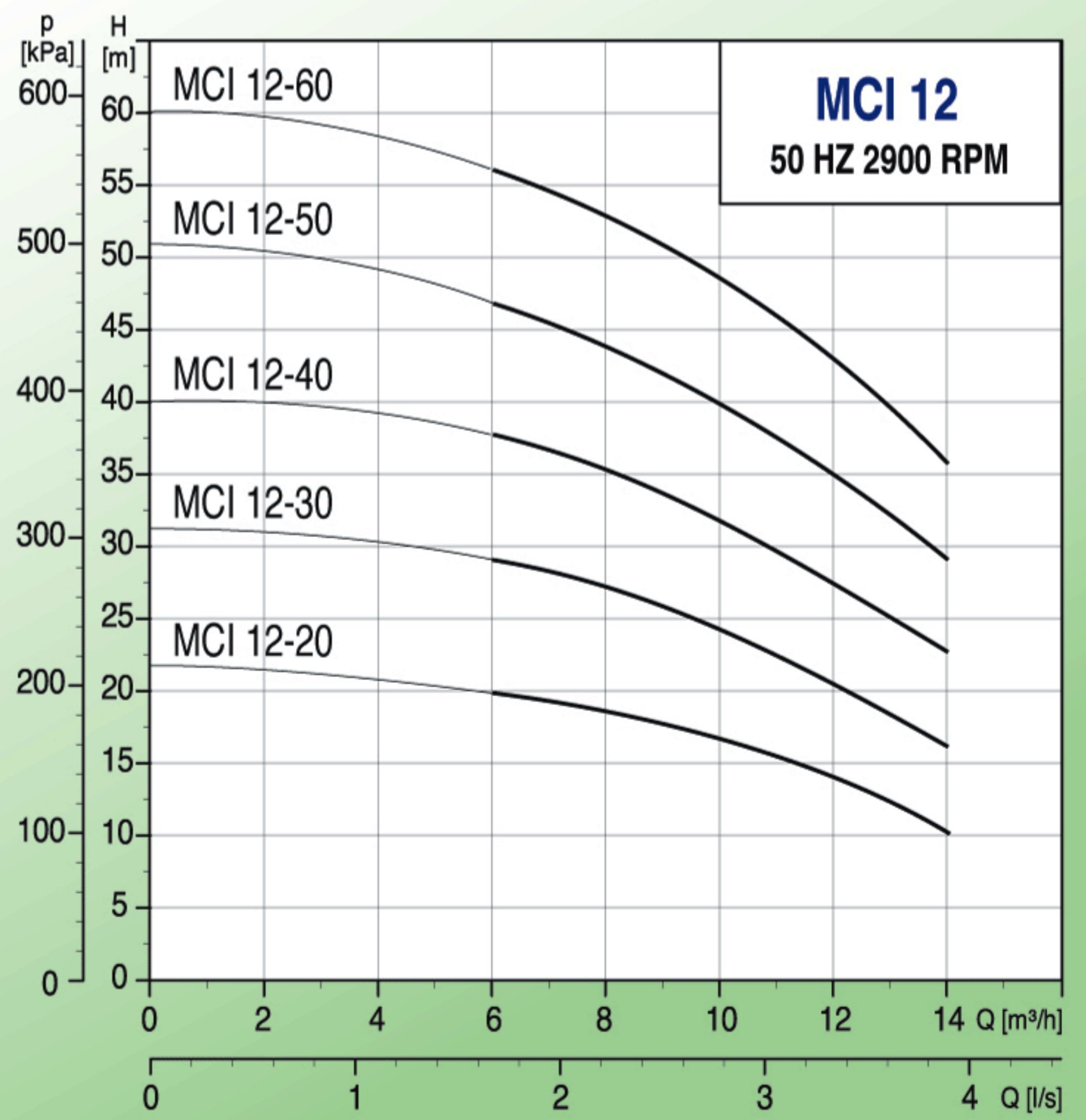
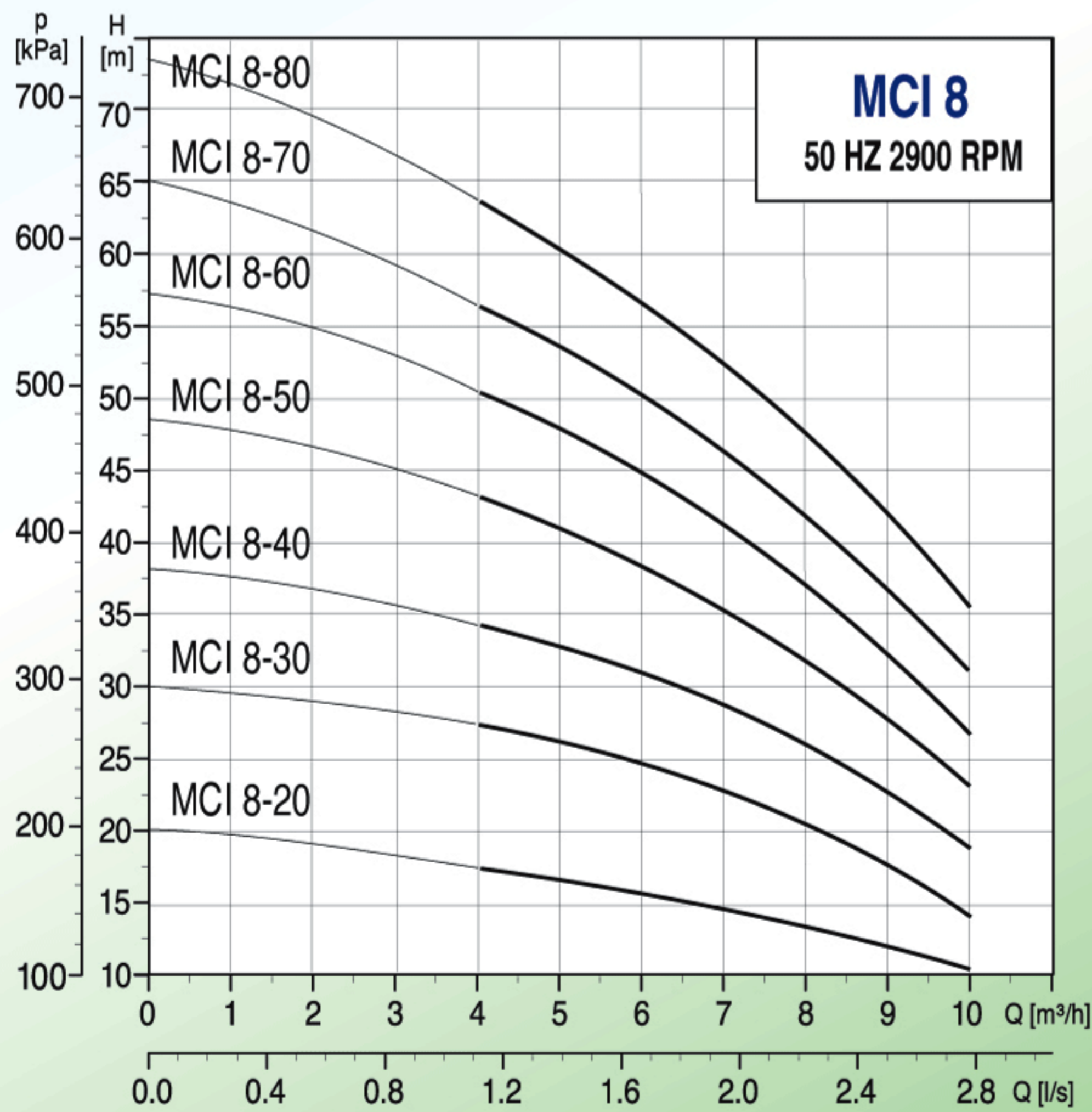
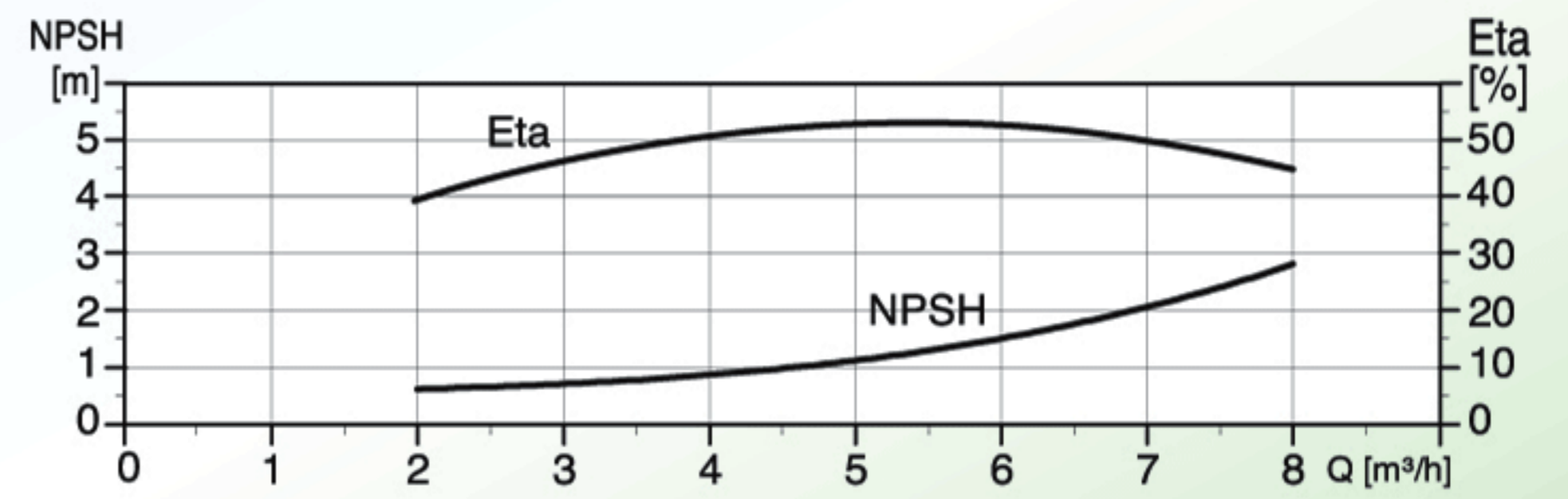
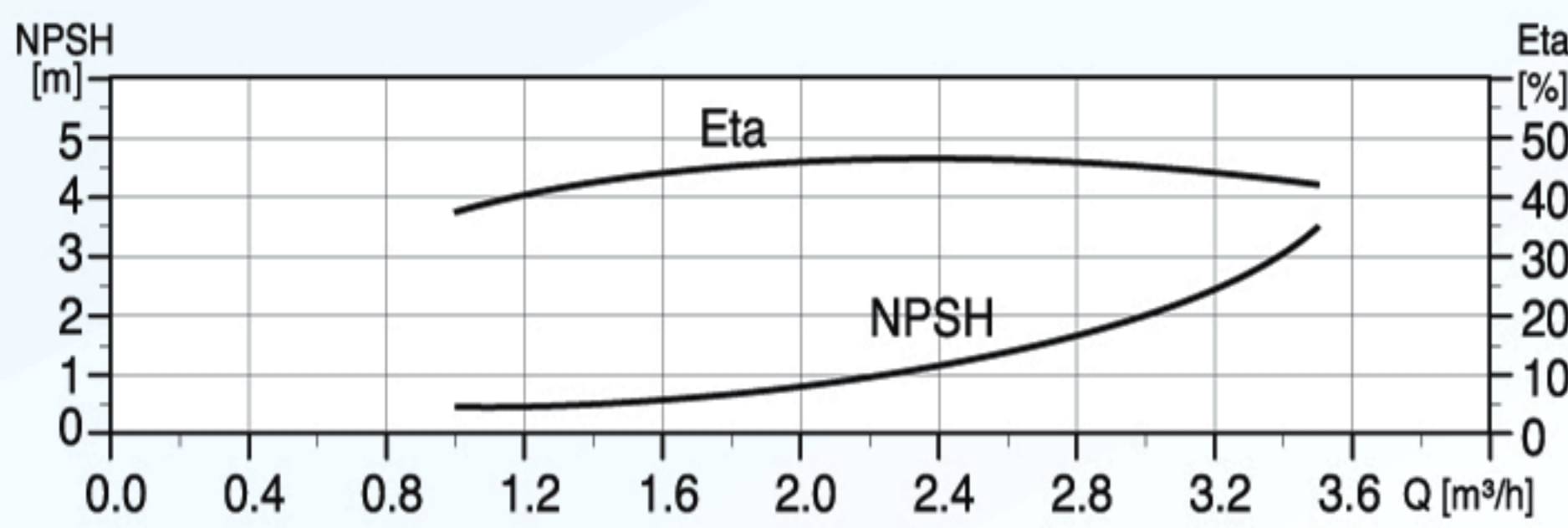
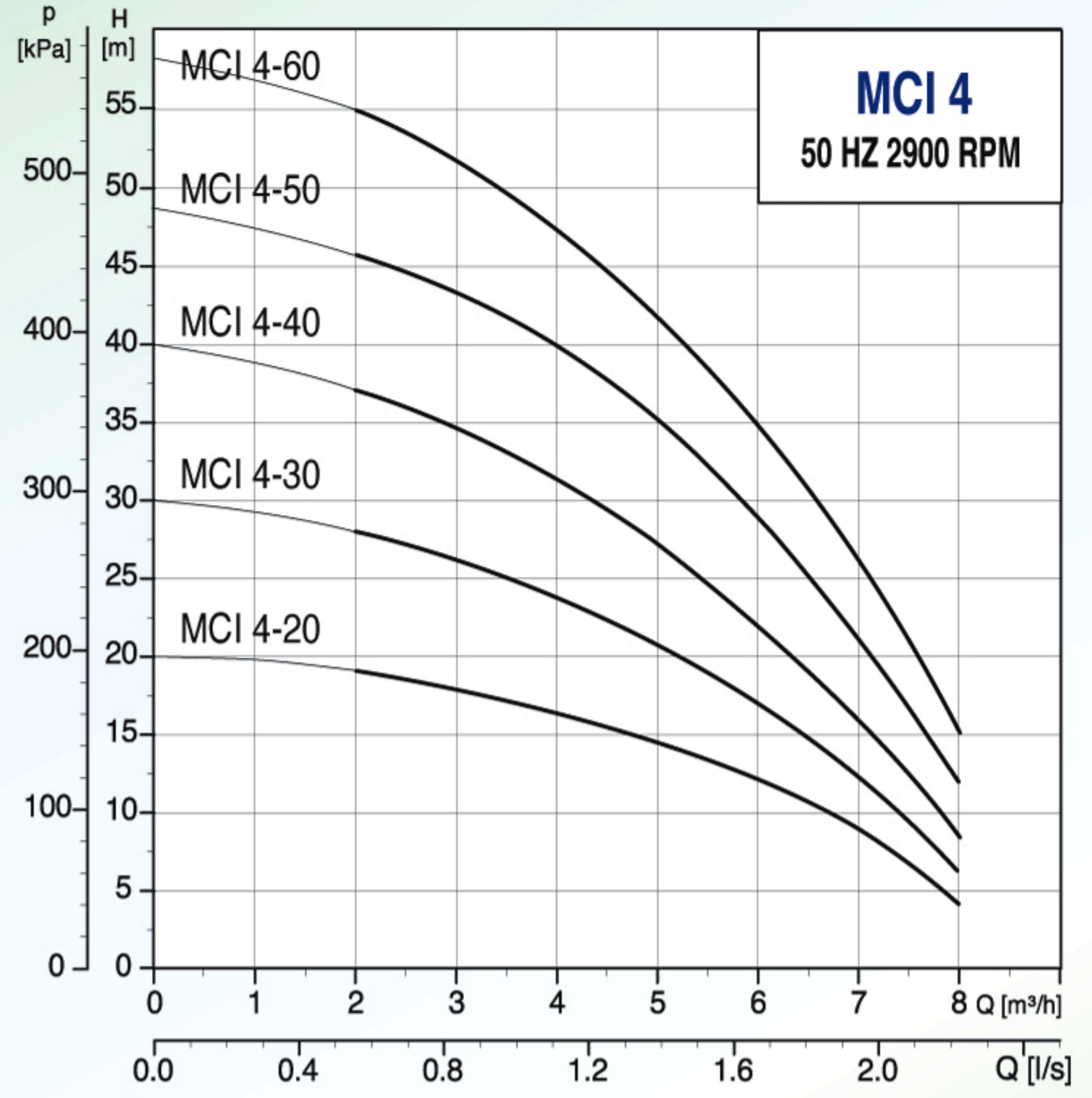
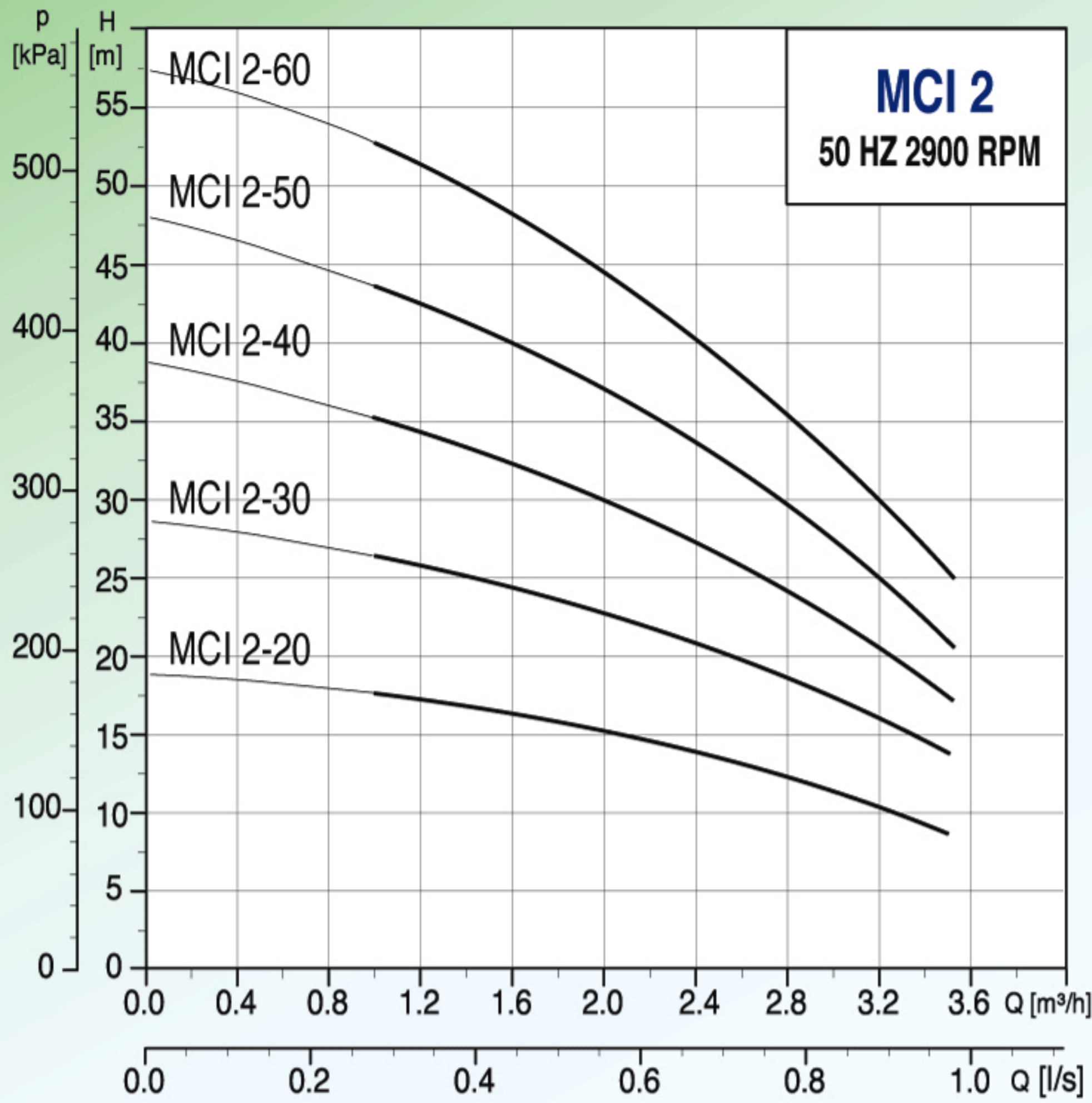
PERFORMANCE TABLE MCI SERIES

2900 RPM

MODEL	KW	HP	Pressure in Meter																				Flow rate Q (m³/h)			
			0.5	1.0	1.5	2.0	2.5	3.0	3.5	4	5	6	7	8	10	12	14	16	18	20	22	24			26	
MCI 2-20 (T)	0.37	0.5	18.5	17.5	16.5	15	13	11																		
MCI 2-30 (T)	0.55	0.75	27.5	26.5	25	22.5	20	17																		
MCI 2-40 (T)	0.55	0.75	36.5	35	32.5	30	26	22.5																		
MCI 2-50 (T)	0.55	0.75	46	44	40.5	37	33.5	27.5																		
MCI 2-60 (T)	0.75	1.0	55	52.5	48.5	45	39.5	32.5																		
MCI 4-20 (T)	0.55	0.75		16.5	16	15.5	15	14.5	14	12.5	11	9.5	7.5	5												
MCI 4-30 (T)	0.75	1.0		25.5	25	24	23	22	20.5	20	17.5	15	11.5	7.5												
MCI 4-40 (T)	0.75	1.0		33.5	32.5	31	30	29	27.5	26	23	19.5	15	10												
MCI 4-50 (T)	1.0	1.3		42.5	41	40	38	36.5	35	33	29	24.5	19	14												
MCI 4-60 (T)	1.1	1.5		51	50	47.5	46	44.5	42.5	40	35	30	24.5	17.5												
MCI 8-20 (T)	0.55	0.75				19.5	19	18	17.8	17.5	17	16	15	13	10											
MCI 8-30 (T)	0.75	1.0				29	28.5	28	27.8	27.5	26	25	23	20.5	15											
MCI 8-40 (T)	1.1	1.5				37	36	35.5	35	34.5	32.8	31	28.5	26	19											
MCI 8-50 (T)	1.5	2.0				47	46	45	44.5	43	41	38	35	32	23.5											
MCI 8-60 (T)	1.8	2.5				55	54	53	52	50	48	45	42	37	27											
MCI 8-70 (T)	2.2	3.0				62	60	59	57.5	56	54	50	46	42	31											
MCI 8-80 (T)	2.2	3.0				69.5	68	67	65	64	60	57	52.5	47.5	35											
MCI 12-20 (T)	1.0	1.3						22	21.5	21	20	19.5	19	18	17	15	12									
MCI 12-30 (T)	1.2	1.8						29.5	29	28.5	28	27.5	27	26	24	21	17									
MCI 12-40 (T)	1.85	2.5						39	38.5	38	37.5	36.5	35.5	35	32	27.5	23									
MCI 12-50 (T)	2.2	3.0						49	48.5	48	47.5	45.5	45	43.5	39.8	35	29.8									
MCI 12-60 (T)	3.0	4.0						59	58.5	58	57.5	56	55	53	48	43	36									
MCI 14-10 (T)	0.75	1.0											12	11.5	10.5	9.5	8.5	7	6							
MCI 14-20 (T)	1.1	1.5											23	22.5	21.5	20	18	16	13							
MCI 14-30 (T)	1.85	2.5											36	35	33	30.5	28	25	21							
MCI 14-40 (T)	2.2	3.0											47.5	46.5	44	41	37	33	28							
MCI 14-50 T	3.0	4.0											60	59	56	52.5	48	42.5	35							
MCI 16-10 (T)	1.0	1.3											12.5	12	11.5	11	10.5	10	9	8	7	6	5			
MCI 16-20 (T)	1.5	2.0											25	24.8	23.5	22.5	22	20	18.5	17.5	15	14	12			
MCI 16-30 (T)	2.2	3.0											38.5	38	36.5	35	33.5	32	30	28	25.5	23	20			
MCI 16-40 (T)	3.0	4.0											51	50	48	47	45	43	41	38.5	36	33	30			
MCI 20-10 (T)	1.0	1.3													14	13.5	13	12.5	12	11.5	11	10	8.5	7.5	6.5	
MCI 20-20 (T)	1.85	2.5													25	24.5	24	23.5	22.5	21	20	18	17	15	12.5	
MCI 20-30 (T)	3.0	4.0													39	38	37	36	34	32.5	30	27.5	25	22	17	
MCI 20-40 (T)	4.0	5.5													51	50	48	46.5	44	42.5	39	36.5	32.5	29	24	

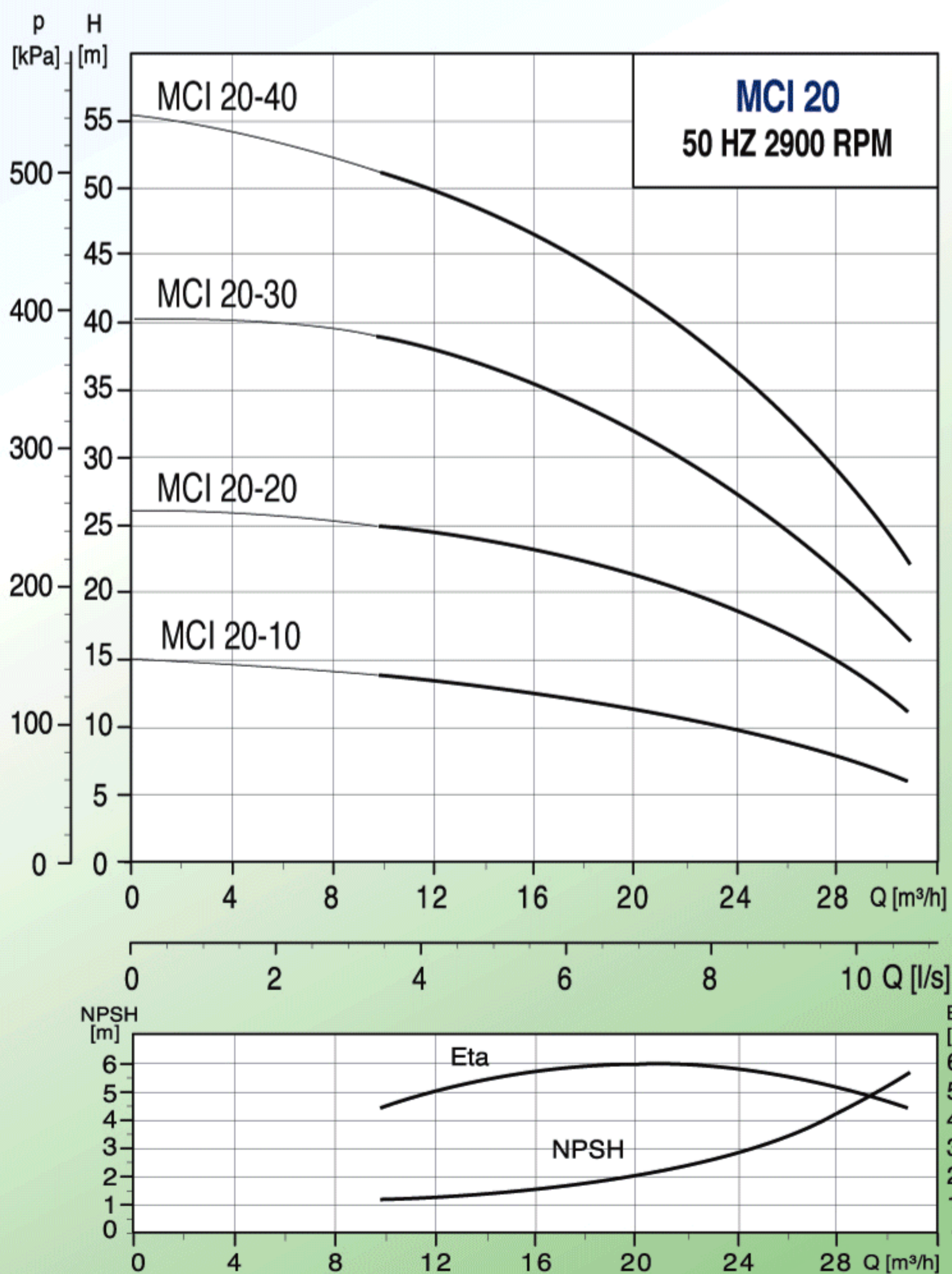
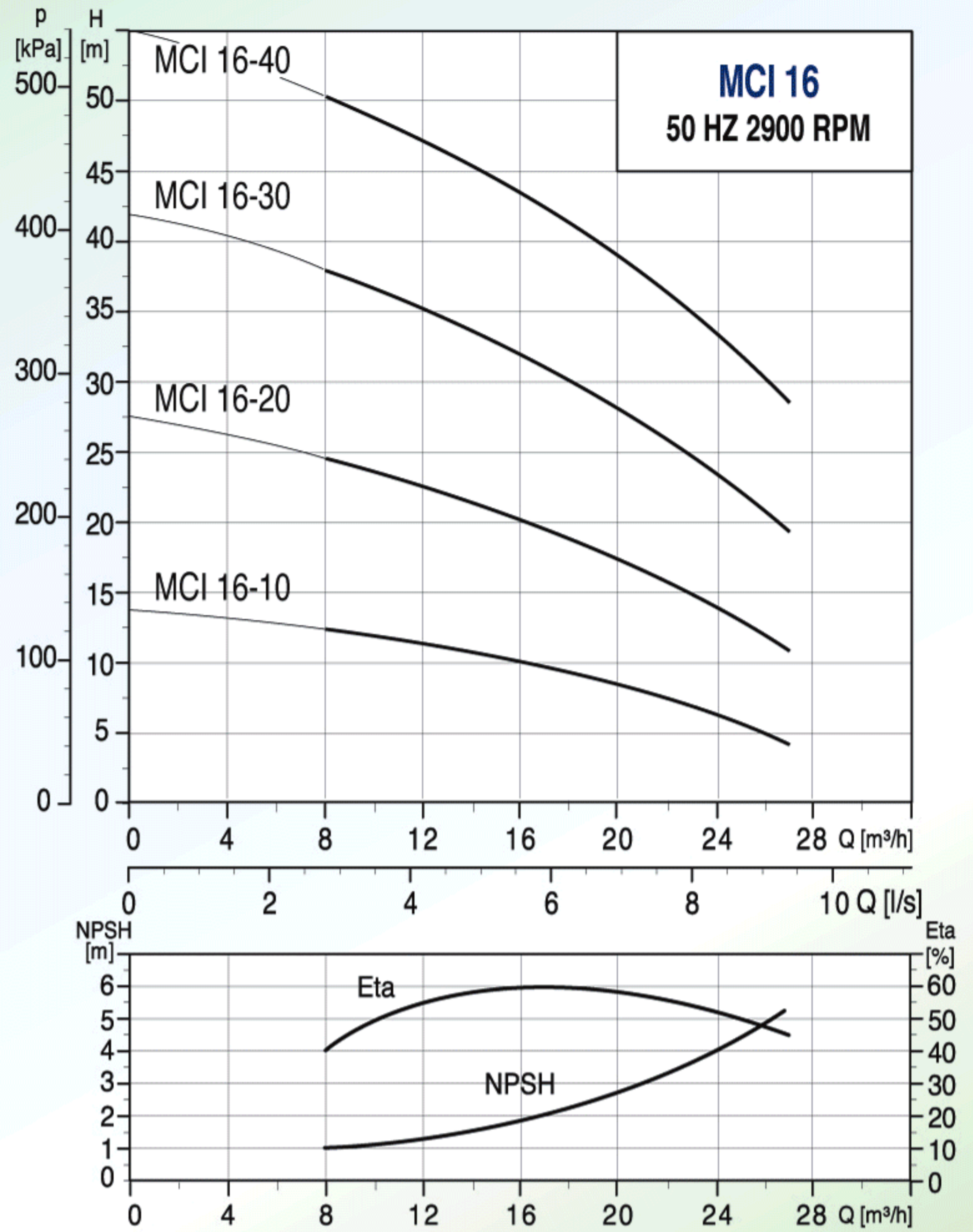
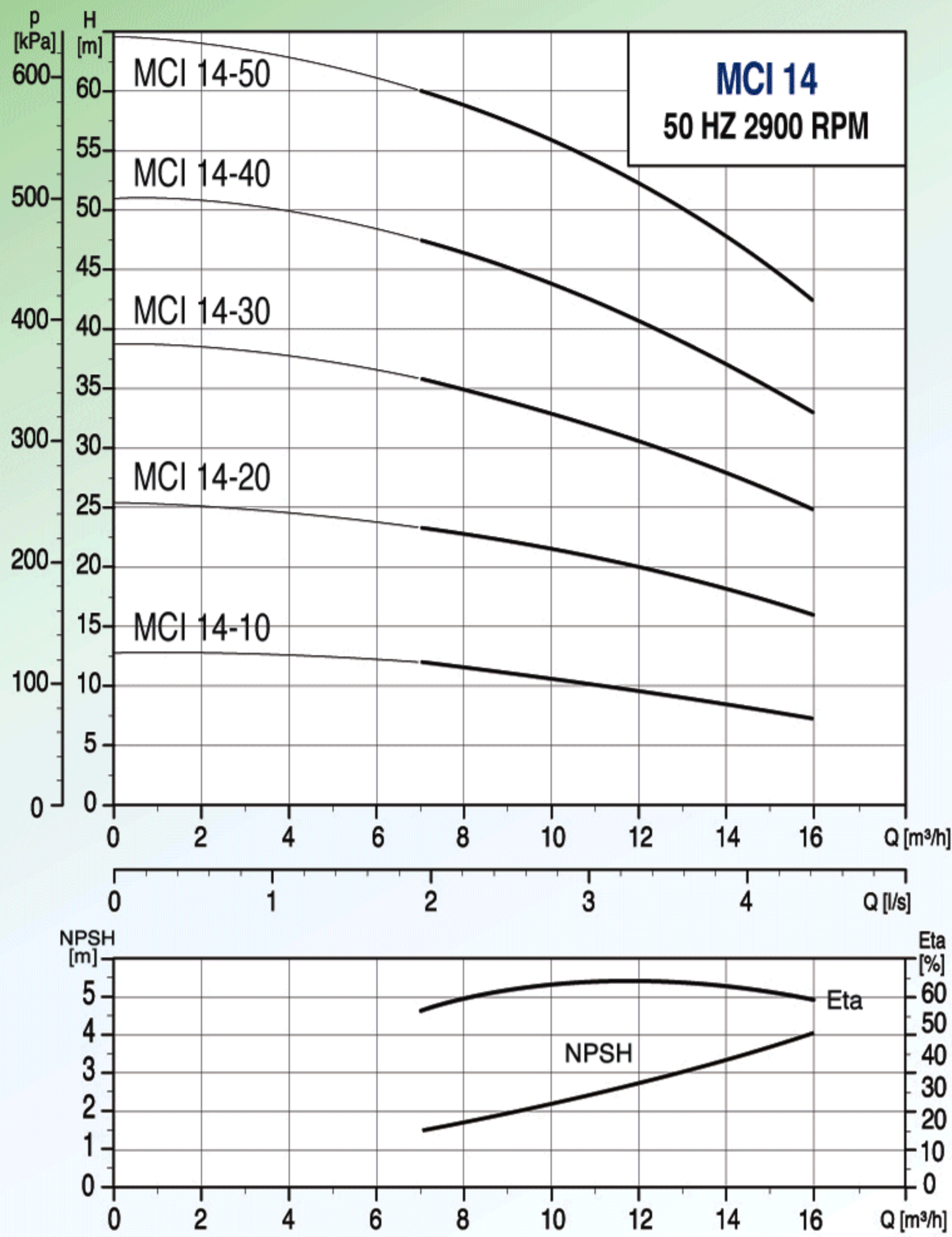
PERFORMANCE CURVES

MCI 2, 4, 8, 12

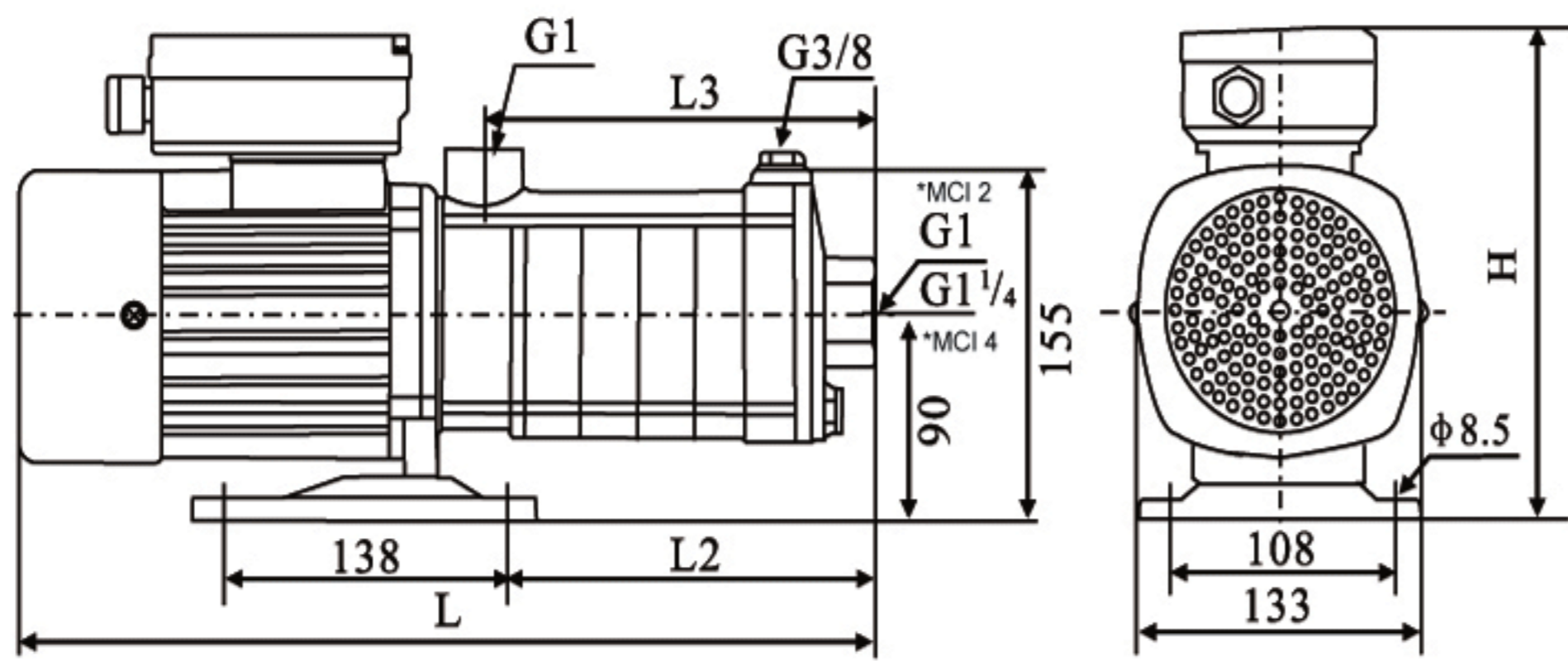


PERFORMANCE CURVES

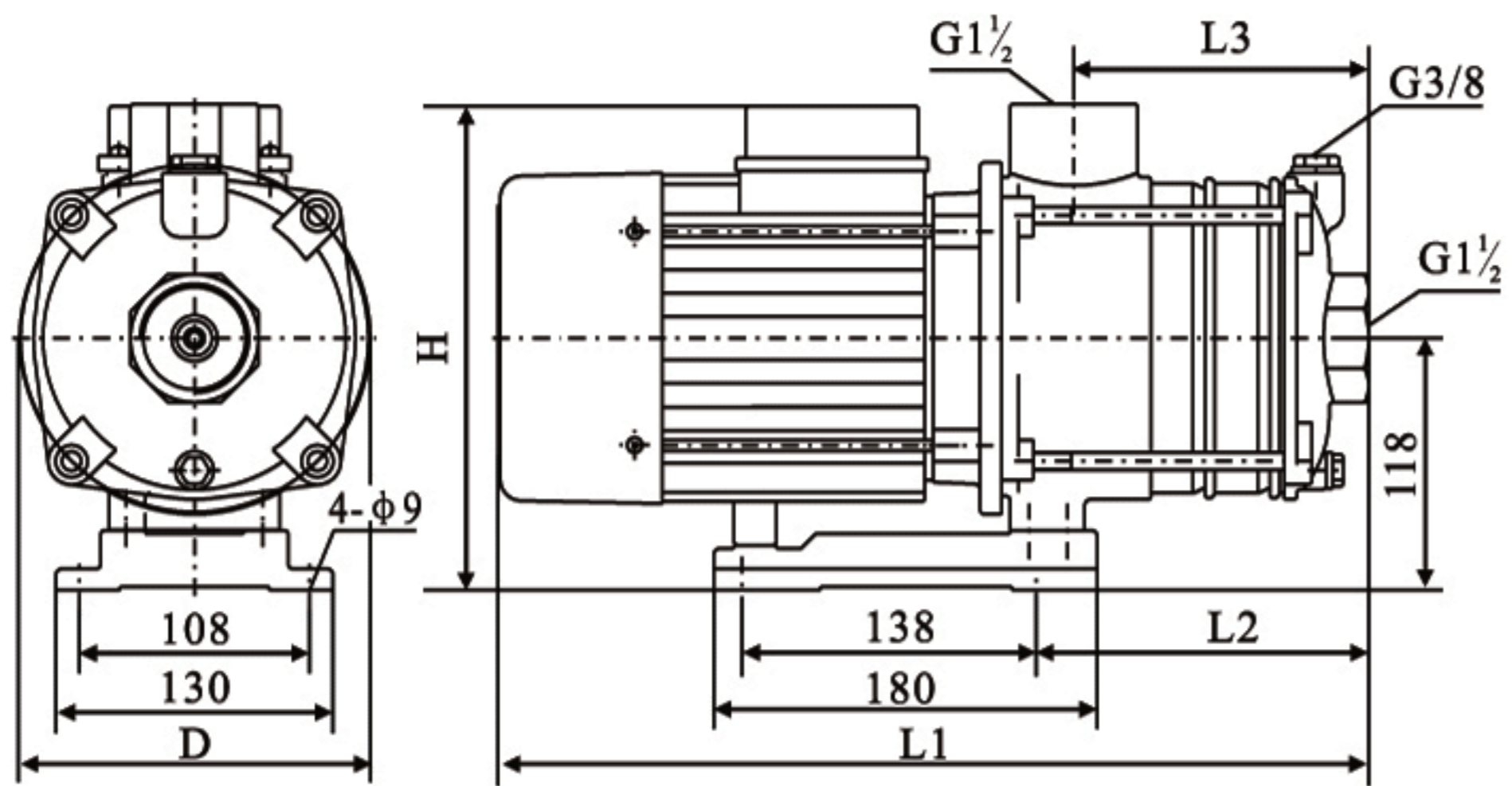
MCI 14, 16, 20



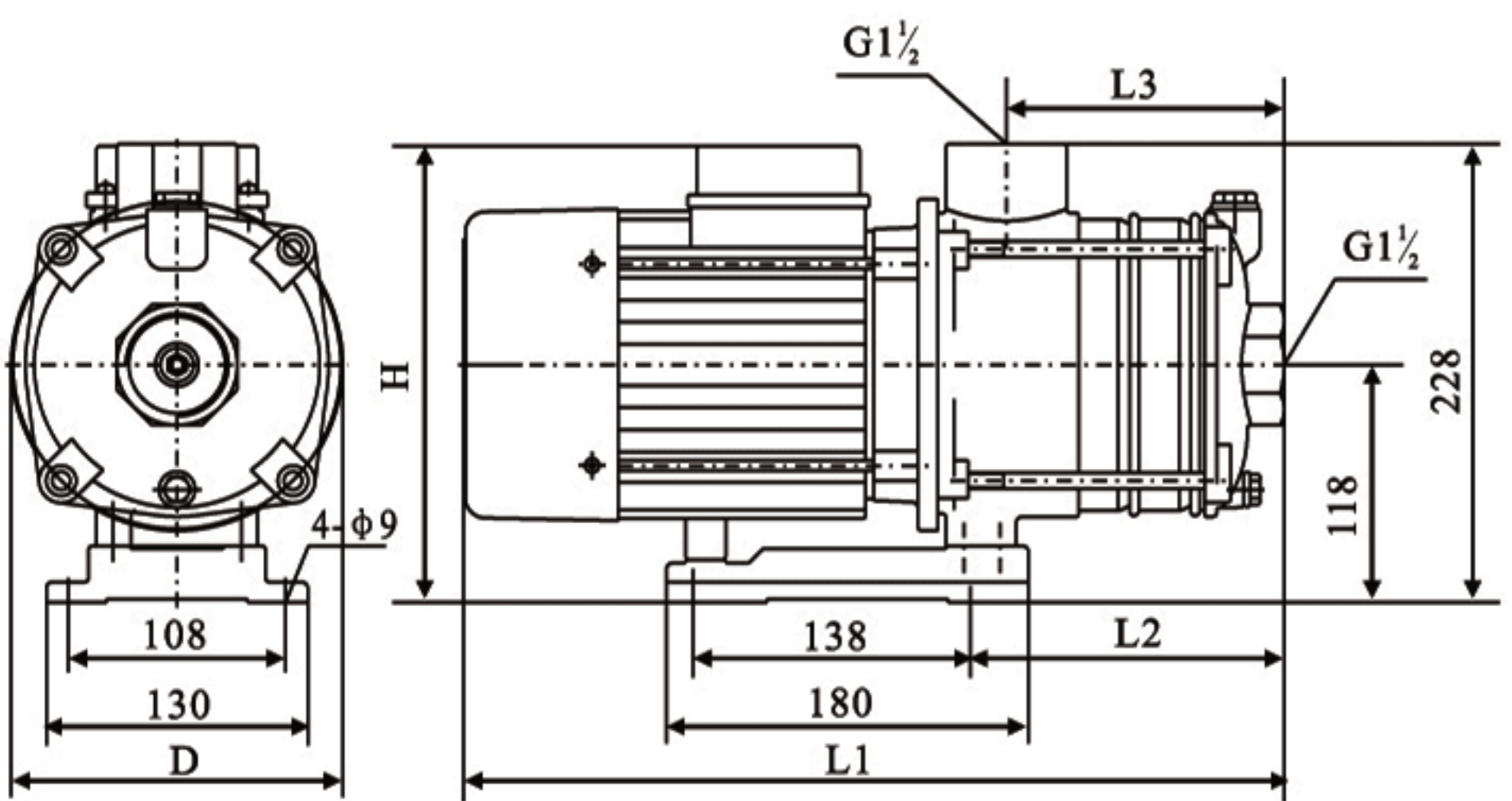
INSTALLATION DRAWING



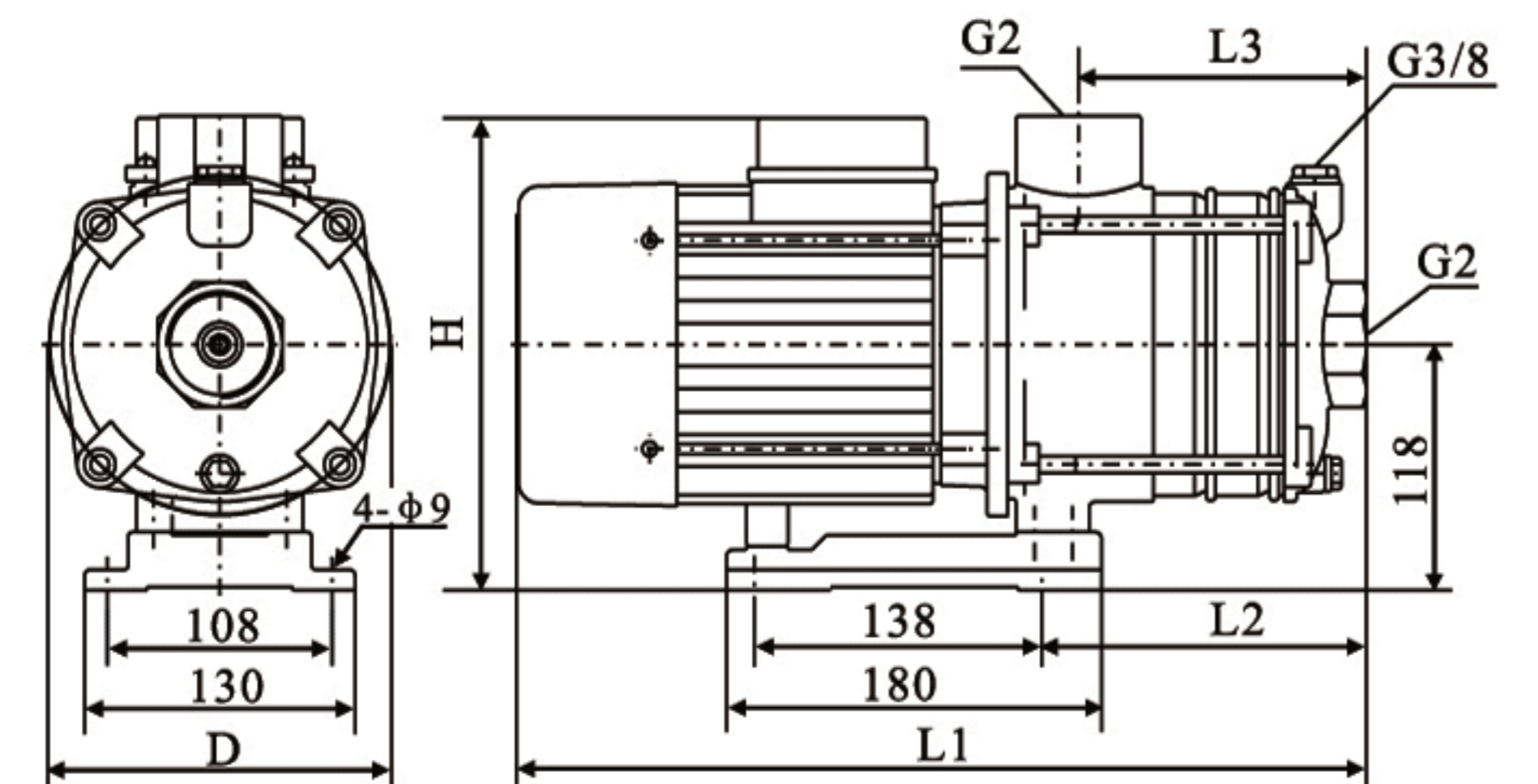
MCI 2 - INLET 1", OUTLET 1" MCI 4 - INLET 1 1/4", OUTLET 1"



MCI 8 - INLET 1 1/2", OUTLET 1 1/2" MCI 12 - INLET 1 1/2", OUTLET 1 1/2"



MCI 14 - INLET 1 1/2", OUTLET 1 1/2"



MCI 16 - INLET 2", OUTLET 2" MCI 20 - INLET 2", OUTLET 2"

MODEL	DIMENSION (mm)										Wt. (kg)
	Single-phase					Three-phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
MCI 16-10	316	96	78	244	165	316	96	78	218	165	12
MCI 16-20	346	126	108	244	165	346	126	108	218	165	14
MCI 16-30	346	126	108	244	165	346	126	108	218	165	17
MCI 16-40	412	156	138	254	165	412	156	138	228	165	19

DIMENSION MCI SERIES

MODEL	DIMENSION (mm)								Wt. (kg)
	Single-phase				Three-phase				
	L	L2	L3	H	L	L2	L3	H	
MCI 2-20	326	90	100	210	326	90	100	190	8.5
MCI 2-30	344	108	118	210	344	108	118	190	9
MCI 2-40	362	126	136	210	362	126	136	190	9.5
MCI 2-50	380	144	154	210	380	144	154	190	9.5
MCI 2-60	398	162	172	210	398	162	172	190	10.5

MODEL	DIMENSION (mm)								Wt. (kg)
	Single-phase				Three-phase				
	L	L2	L3	H	L	L2	L3	H	
MCI 4-20	335	99	109	210	335	99	109	190	9
MCI 4-30	362	126	136	210	362	126	136	190	10
MCI 4-40	389	153	163	210	389	153	163	190	10.5
MCI 4-50	416	180	190	210	416	180	190	190	11
MCI 4-60	443	207	217	210	443	207	217	190	12

MODEL	DIMENSION (mm)										Wt. (kg)
	Single-phase					Three-phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
MCI 8-20	316	96	78	244	165	316	96	78	218	165	12
MCI 8-30	346	126	108	244	165	346	126	108	218	165	14
MCI 8-40	346	126	108	244	165	346	126	108	218	165	17
MCI 8-50	412	156	138	254	165	412	156	138	228	165	19
MCI 8-60	450	156	138	261	176	412	156	138	228	165	24
MCI 8-70	480	186	168	261	176	442	186	168	228	165	25
MCI 8-80	480	186	168	261	176	442	186	168	228	165	26

MODEL	DIMENSION (mm)										Wt. (kg)
	Single-phase					Three-phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
MCI 12-20	316	96	78	244	165	316	96	78	218	165	13
MCI 12-30	412	126	108	254	165	412	126	108	228	165	15
MCI 12-40	420	126	108	261	176	412	126	108	228	165	23
MCI 12-50	420	156	138	261	176	412	156	138	228	165	25
MCI 12-60	-	-	-	-	-	468	156	138	235	176	27

MODEL	DIMENSION (mm)										Wt. (kg)
	Single-phase					Three-phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
MCI 14-10	317	96	78	237	165	317	96	78	216	165	12
MCI 14-20	382	126	108	246	165	382	126	108	222	165	14
MCI 14-30	454	156	138	227	165	412	156	138	222	165	25
MCI 14-40	484	186	158	227	170	442	186	168	227	170	27
MCI 14-50	-	-	-	-	-	531	216	198	227	170	30

MODEL	DIMENSION (mm)										Wt. (kg)
	Single-phase					Three-phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
MCI 20-10	376	106	81	254	165	376	106	81	228	165	14
MCI 20-20	444	151	126	261	176	406	151	126	228	165	24
MCI 20-30	-	-	-	-	-	511	186	171	239	170	28
MCI 20-40	-	-	-	-	-	575	316	216	248	195	33

PACKAGE SINGLE BOOSTER PUMPS SET

M1



M2

INVERTER + MCI PUMPS SET



M3

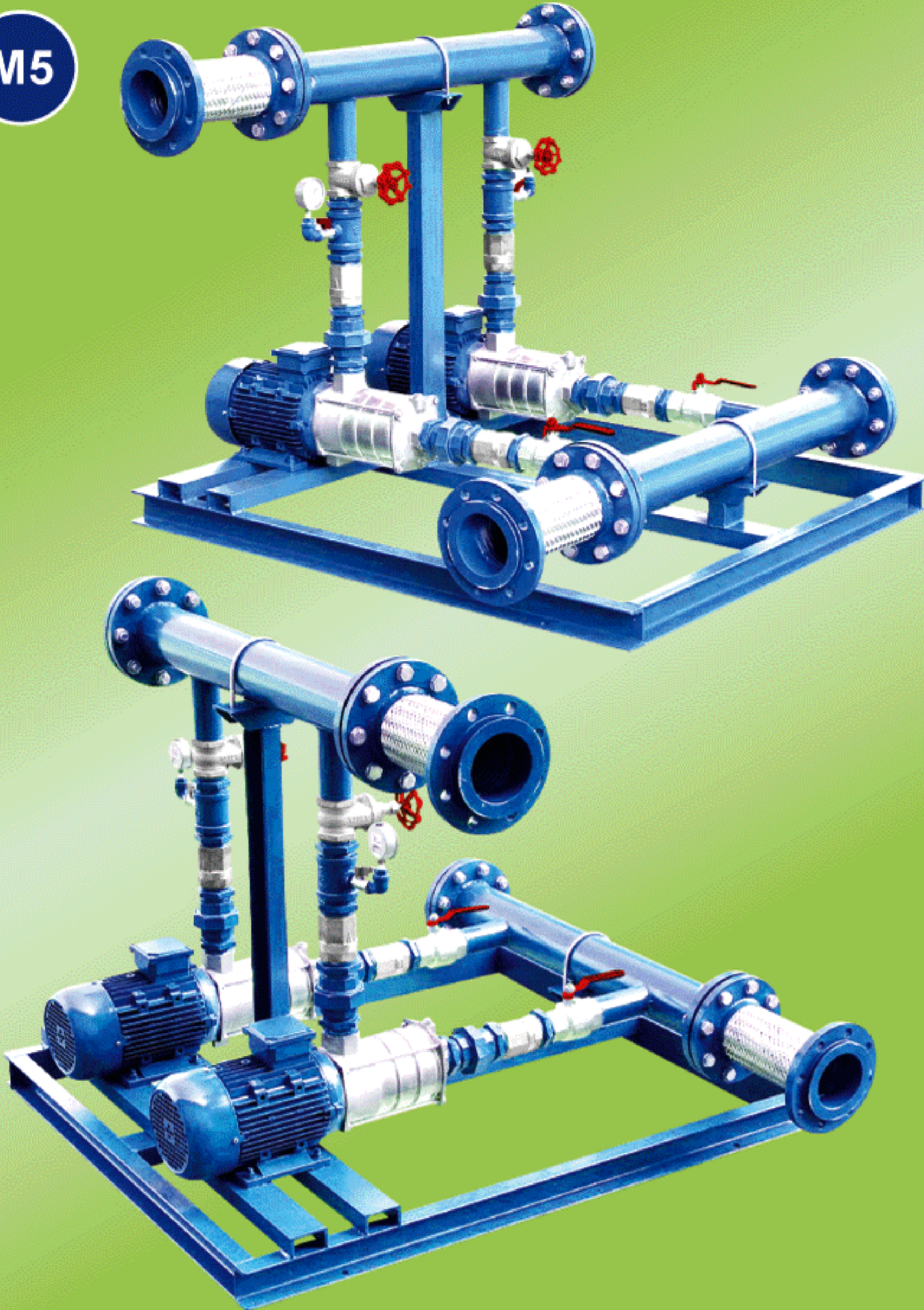


M4



PACKAGE BOOSTER 2 PUMPS SET

M5



M6

PACKAGE BOOSTER MCI 2 PUMPS



MCI SERIES

THE MCI PUMP CAN BE POWERED BY SOLAR ENERGY WHICH CAN SAVE A LOT OF SOLAR PANEL FOR YOUR INVESTMENT DUE TO THE EXTREME PERFORMANCE OF THE PUMP.