APPLICATION

- The MHD Series are primarily for the industry.
  - Water treatment Process.
  - Industrial cleaner and dishwater
  - Water boosting on process
  - Heating and cooling industrial process
  - Air-conditioning system.
  - Air freshening and heater device (soft water)
  - Water supply and boosting (drinking water and light chlorine water)
  - Fertilization/metering system
  - Many more special using

APPLICATION MEDIUM

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers; Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
- When the density or viscosity of to-be conveyed liquid is larger than that of water, it is necessary to select a driving motor of high power. Whether a specific liquid is suitable for the pump depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

OPERATION CONDITION

- Liquid temperature: Low temperature: -20°C to +15°C
  Standard Model: +15°C to +70°C
  High temperature: +70°C to +104°C
- Max. environmental temperature: +50°C
- Max. operating pressure: 10 bar
- Max. Suction pressure is limited by max. operating pressure

ELECTRIC MOTOR

- 2-pole Induction Motor.
- Single phase: 220 – 240V/50Hz
- Three phase: 220/380V/50Hz
- Insulation Class: F
- Continuous S1 Duty
- Single phase with input thermal protector

PUMP

- Horizontal multistage non-self-priming centrifugal pump, attached with long shaft electric motor.
- Compact structure renders small size of pump; axial inlet radial outlet.

Connection port	MHD 1 & 2	MHD 4	MHD 8	MHD 12	MHD 16	MHD 20
Inlet	1”	1¼”	1½”	1½”	2”	2”
Outlet	1”	1”	1½”	1½”	2”	2”

MODEL IDENTIFICATION CHART

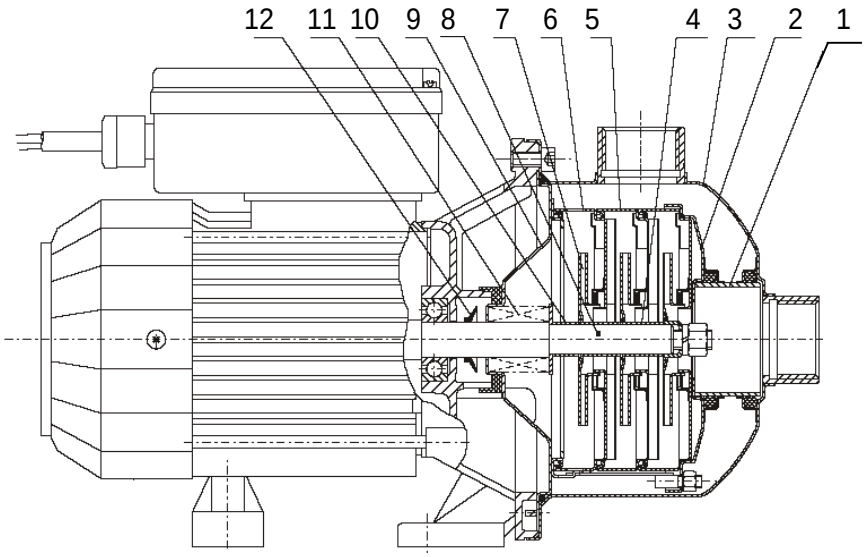
MH D 2 – 5 - M –CSE

- Shaft Seal Code. ("C" – Carbon vs. Ceramic; "S" – Silicon Carbide; "E" – EPDM; "V" – Fluorine Rubber/Viton)
- M: Single phase; T: Three phase
- No. of stages
- Nominal Flow m^3/hr
- D: SS 304 (Doom Type) & M: SS 316 (Doom Type)
- Light Horizontal Multistage centrifugal pump

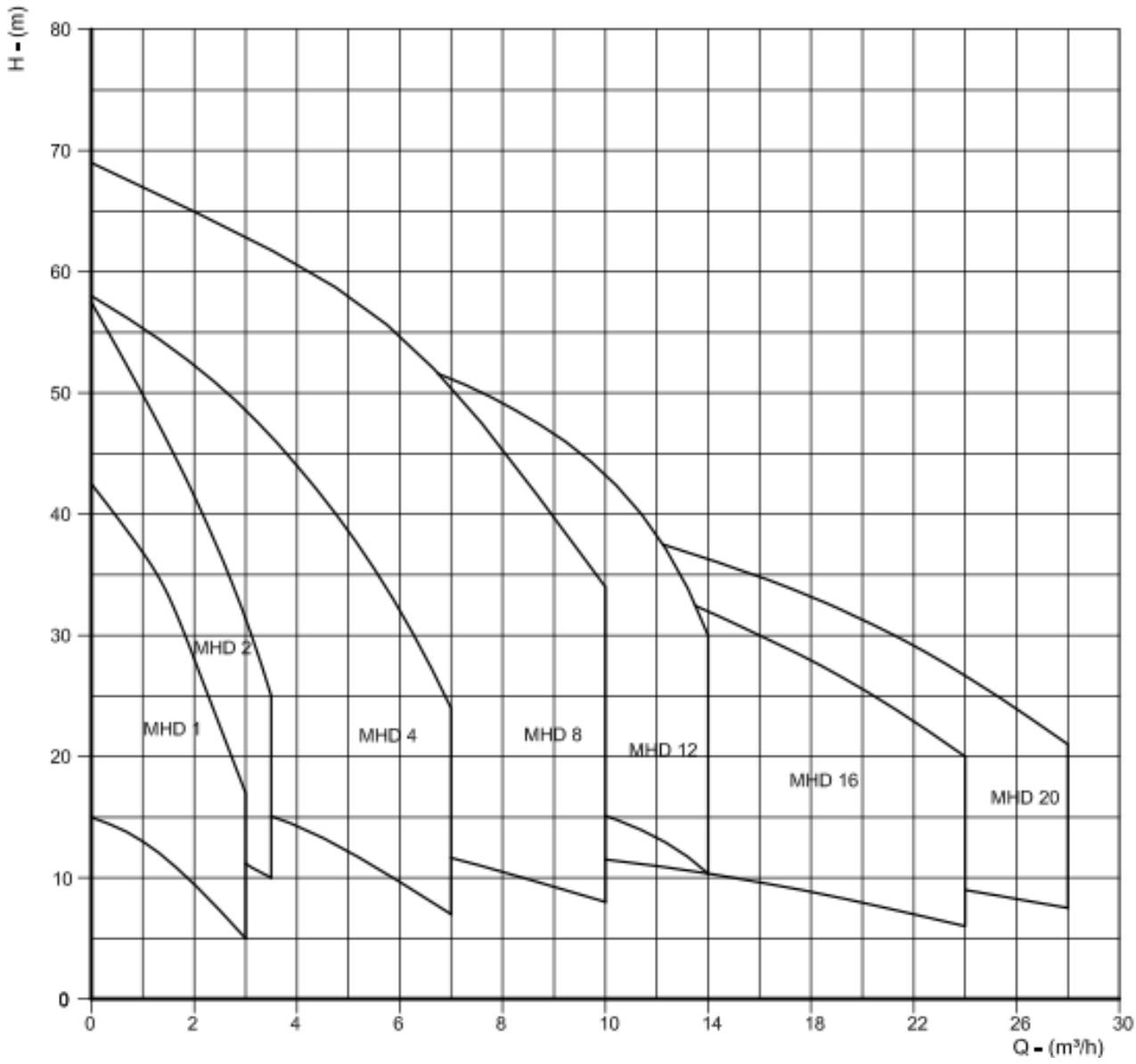
GENERAL DATA

MATERIAL - MD

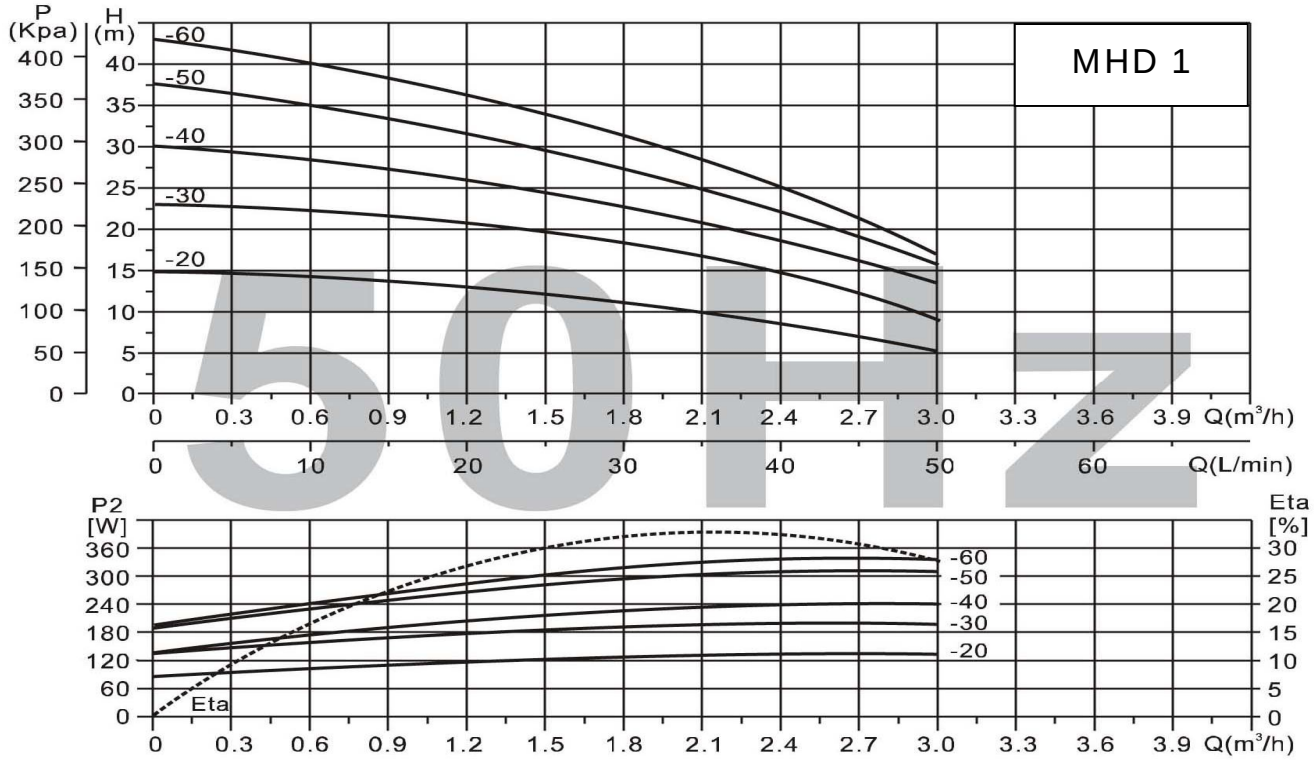
No	Name	Material	
1	Connection Pipe	Stainless Steel	AISI304 or AISI 316
2	Clamp Plate	Stainless Steel	AISI304 or AISI 316
3	Pump Casing	Stainless Steel	AISI304 or AISI 316
4	Long Shaft Sleeve	Stainless Steel	AISI304 or AISI 316
5	Middle Section	Stainless Steel	AISI304 or AISI 316
6	Outer Section	Stainless Steel	AISI304 or AISI 316
7	Impeller	Stainless Steel	AISI304 or AISI 316
8	Shaft	Stainless Steel	AISI304 or AISI 316
9	Pump Cover	Stainless Steel	AISI304 or AISI 316
10	Short Shaft Sleeve	Stainless Steel	AISI304 or AISI 316
11	Mechanical Seal	BABE, BABV, BQQE, BQQV	
12	Slinger		



GROUP CURVE


H - (m)
80
70
60
50
40
30
20
10
0
0
2
4
6
8
10
14
18
22
26
30
Q - (m³/h)
MHD 1
MHD 2
MHD 4
MHD 8
MHD 12
MHD 16
MHD 20

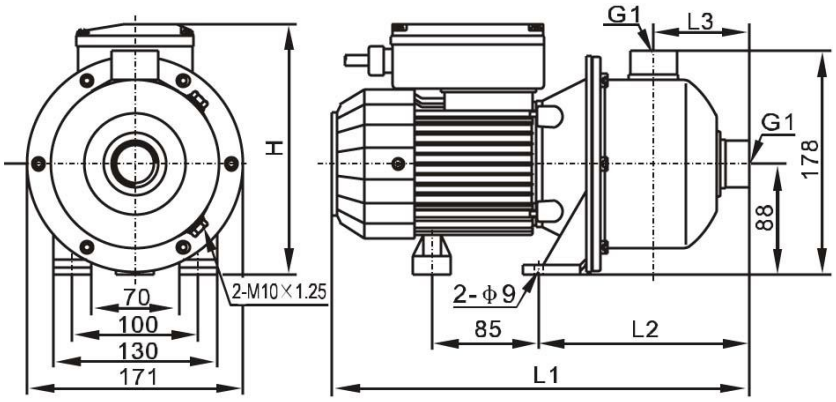
PERFORMANCE CURVE



PERFORMANCE TABLE

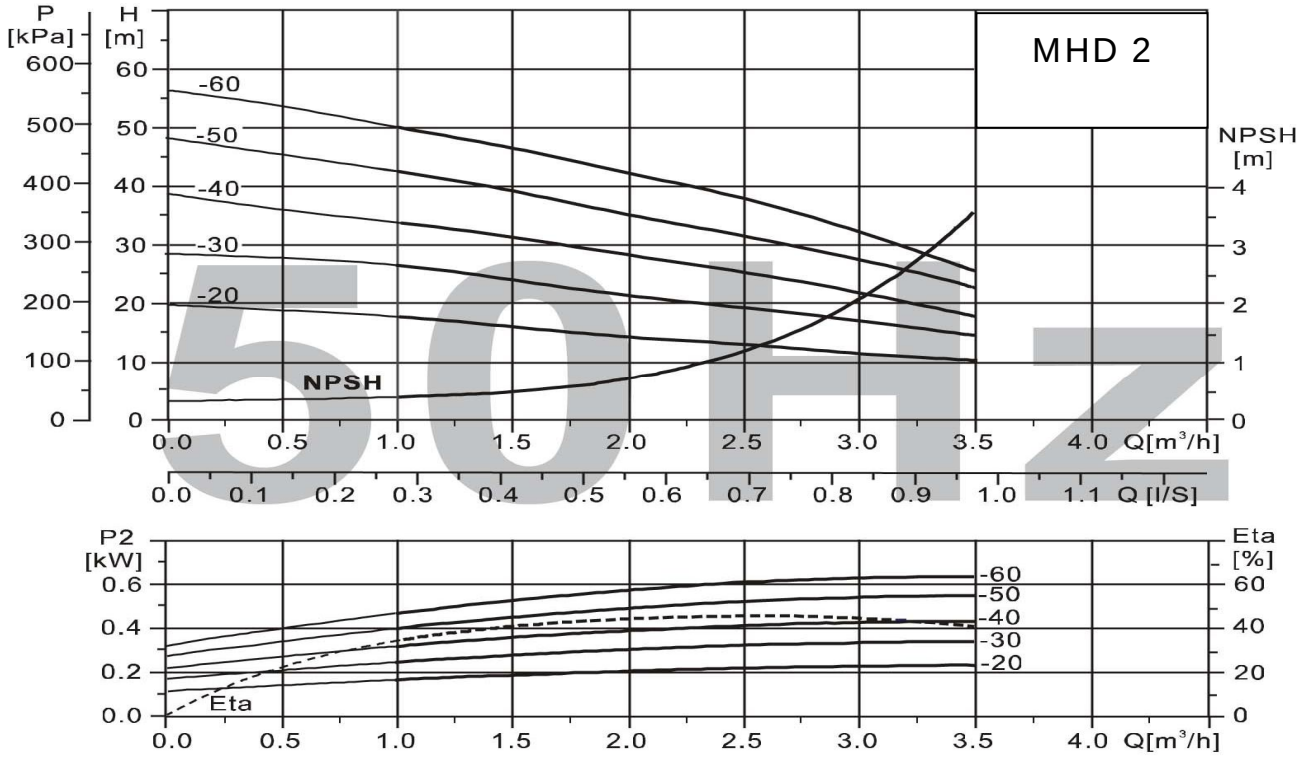
Model	Driving Motor P2 (Kw)	Q (m^3/hr)	0.6	1.0	1.5	1.8	2.0	2.4	3.0
MHD 1-2	0.25	H (m)	14	13.5	12	11	10	8.5	5
MHD 1-3	0.25		22	21	20	20	16	15	9.5
MHD 1-4	0.25		28	27	24.5	23	21	19	13
MHD 1-5	0.37		35	33	30	28	25	22	15
MHD 1-6	0.37		40	37	34	31	28	25	17

DIMENSIONAL DETAILS



Model	Size (mm)								Weight (Kg)
	1 Ø				3 Ø				
	L1	L2	L3	H	L1	L2	L3	H	
MHD 1-2	332	167	76	199	332	167	76	177	6.7
MHD 1-3	332	167	76	199	332	167	76	177	6.9
MHD 1-4	386	221	130	199	386	221	130	177	7.5
MHD 1-5	386	221	130	199	386	221	130	177	7.7
MHD 1-6	386	221	130	199	386	221	130	177	7.8

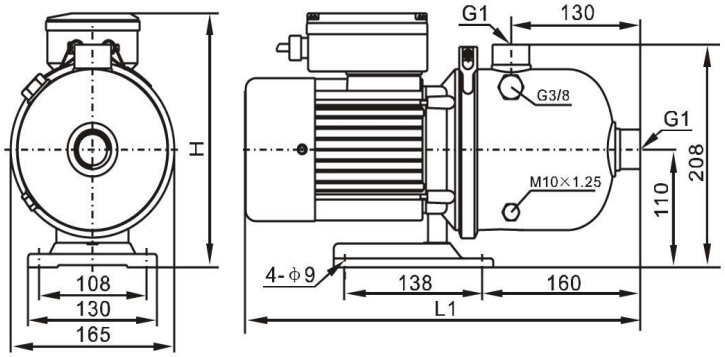
PERFORMANCE CURVE



PERFORMANCE TABLE

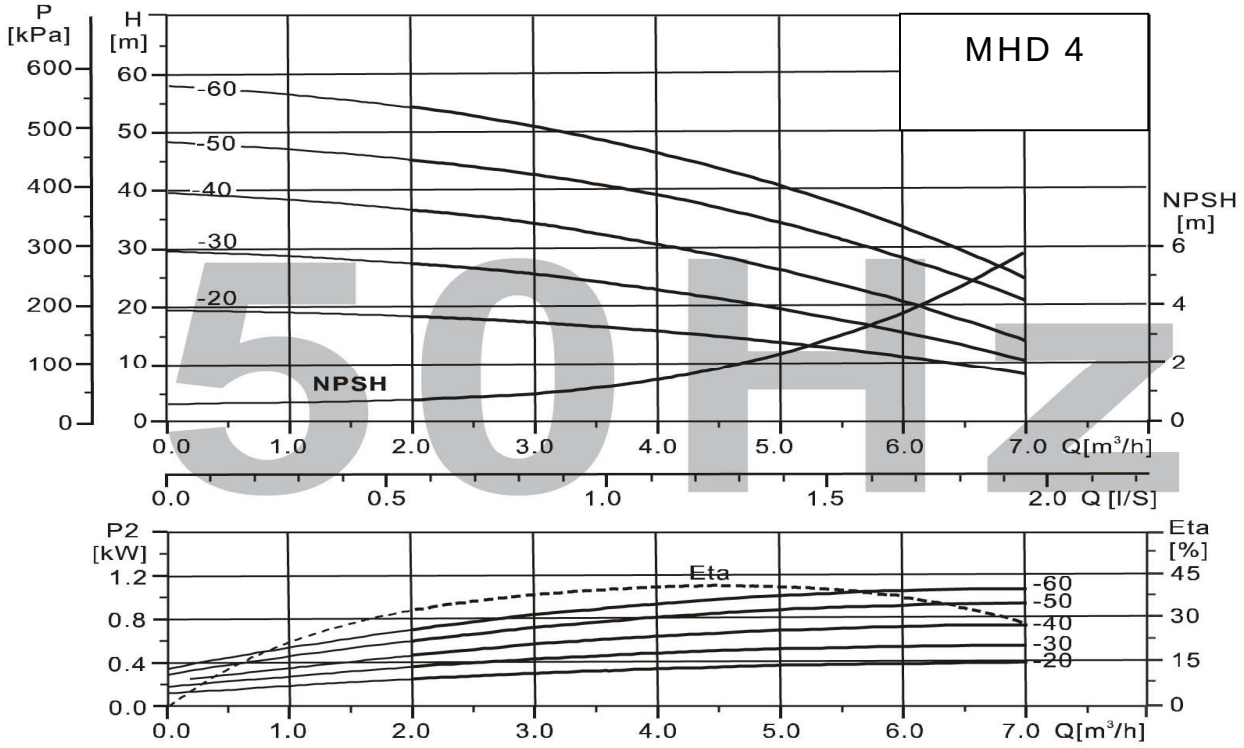
Model	Driving Motor P2 (Kw)	Q (m^3/hr)	1.0	1.5	2.0	2.5	3.0	3.5
MHD 2 -2	0.37	H (m)	18	16	14	13	11	10
MHD 2 -3	0.37		27	24	21	20	17	14
MHD 2 -4	0.55		35	32	28	26	23	17
MHD 2 -5	0.55		43	40	35	33	28	22
MHD 2 -6	0.75		50	48	42	38	32	25

DIMENSIONAL DETAILS



Model	Size (mm)				Weight (Kg)
	1 Ø		3 Ø		
	L1	H	L1	H	
MHD 2 -2	405	236	405	214	8.0
MHD 2 -3	405	236	405	214	8.5
MHD 2 -4	405	236	405	214	9.5
MHD 2 -5	405	236	405	214	11.0
MHD 2 -6	405	236	405	214	12.0

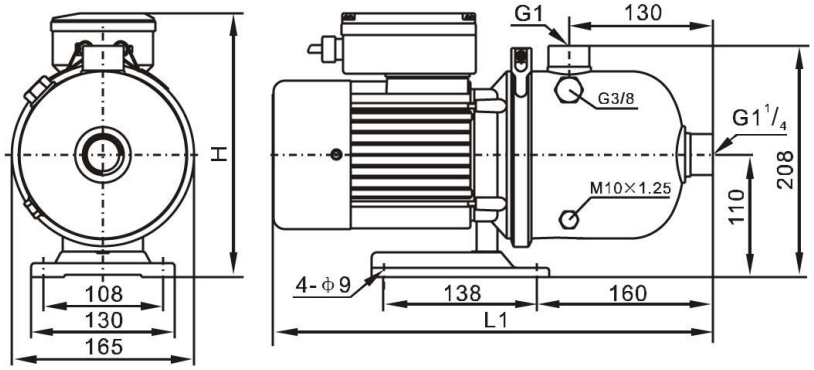
PERFORMANCE CURVE



PERFORMANCE TABLE

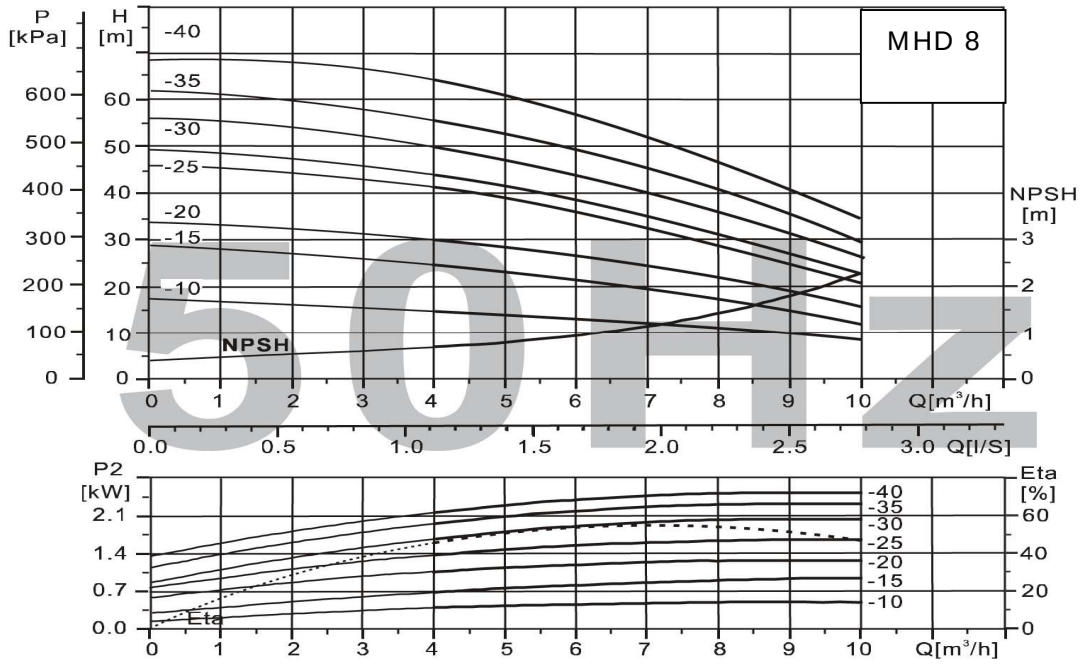
Model	Driving Motor P2 (Kw)	Q (m^3/hr)	2.0	3.0	4.0	5.0	6.0	7.0
MHD 4 -2	0.55	H (m)	18	16	15	13	10	7
MHD 4 -3	0.75		27	25	22	19	15	10
MHD 4 -4	0.75		36	33	30	26	20	13
MHD 4 -5	1.0		44	41	38	32	26	20
MHD 4 -6	1.1		53	50	45	40	33	24

DIMENSIONAL DETAILS



Model	Size (mm)				Weight (Kg)
	1 Ø		3 Ø		
	L1	H	L1	H	
MHD 4 -2	405	236	405	214	9.7
MHD 4 -3	405	236	405	214	11.0
MHD 4 -4	405	236	405	214	11.5
MHD 4 -5	405	236	405	214	12.5
MHD 4 -6	405	236	405	214	13.5

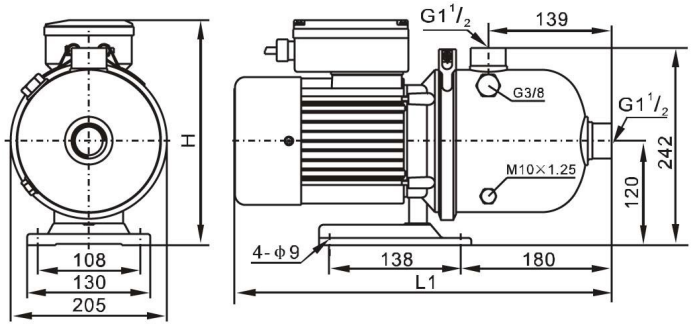
PERFORMANCE CURVE



PERFORMANCE TABLE

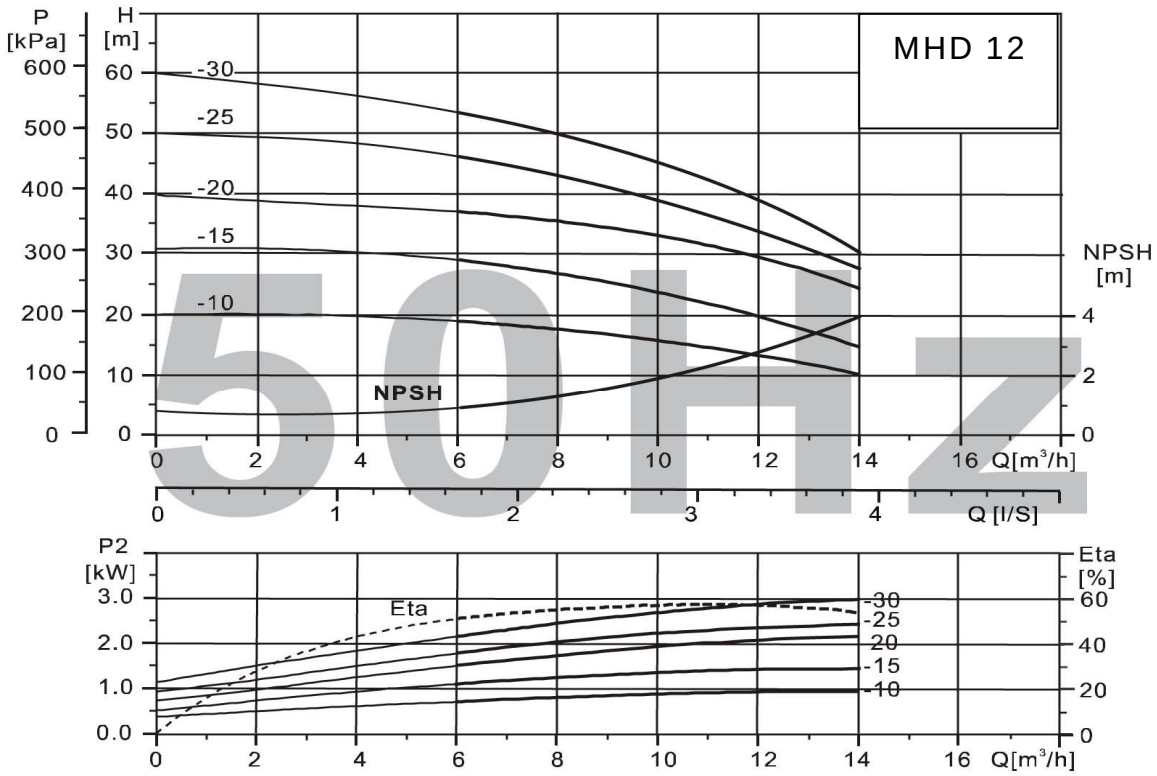
Model 1 Ø	Driving Motor P2 (Kw)	Q (m^3/hr)	4.0	5.0	6.0	7.0	8.0	9.0	10.0
MHD 8 - 1	0.55	H (m)	15	14	13	12.5	12	9	8
MHD 8 -15	0.75		25	23	22	21	20	14	12
MHD 8 - 2	1.0		32	29	27	25	24	21	17
MHD 8 - 25	1.5		43	40	38	34	27	25	20
MHD 8 - 3	1.85		50	46	44	40	36	30	26
MHD 8 - 35	2.2		56	51	48	44	43	35	28
MHD 8 - 4	2.2		65	57.5	57	50	48	42	34

DIMENSIONAL DETAILS



Model	Size (mm)				Weight (Kg)
	1 Ø		3 Ø		
	L1	H	L1	H	
MHD 8 - 1	425	245	425	225	10.5
MHD 8 -15	425	245	425	225	12
MHD 8 - 2	425	245	425	225	14
MHD 8 - 25	458	254	458	232	17
MHD 8 - 3	500	239	458	232	21.5
MHD 8 - 35	500	239	458	232	23
MHD 8 - 4	500	239	498	232	24

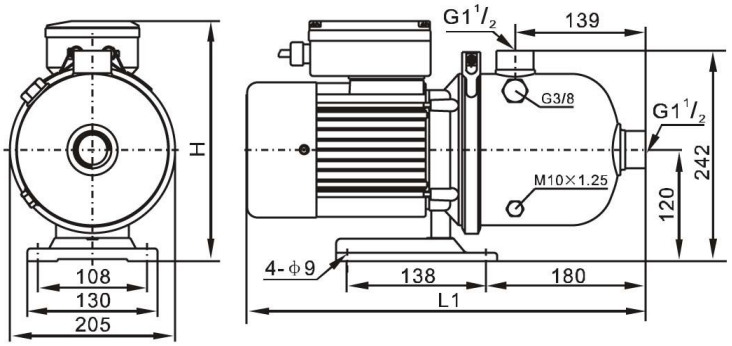
PERFORMANCE CURVE



PERFORMANCE TABLE

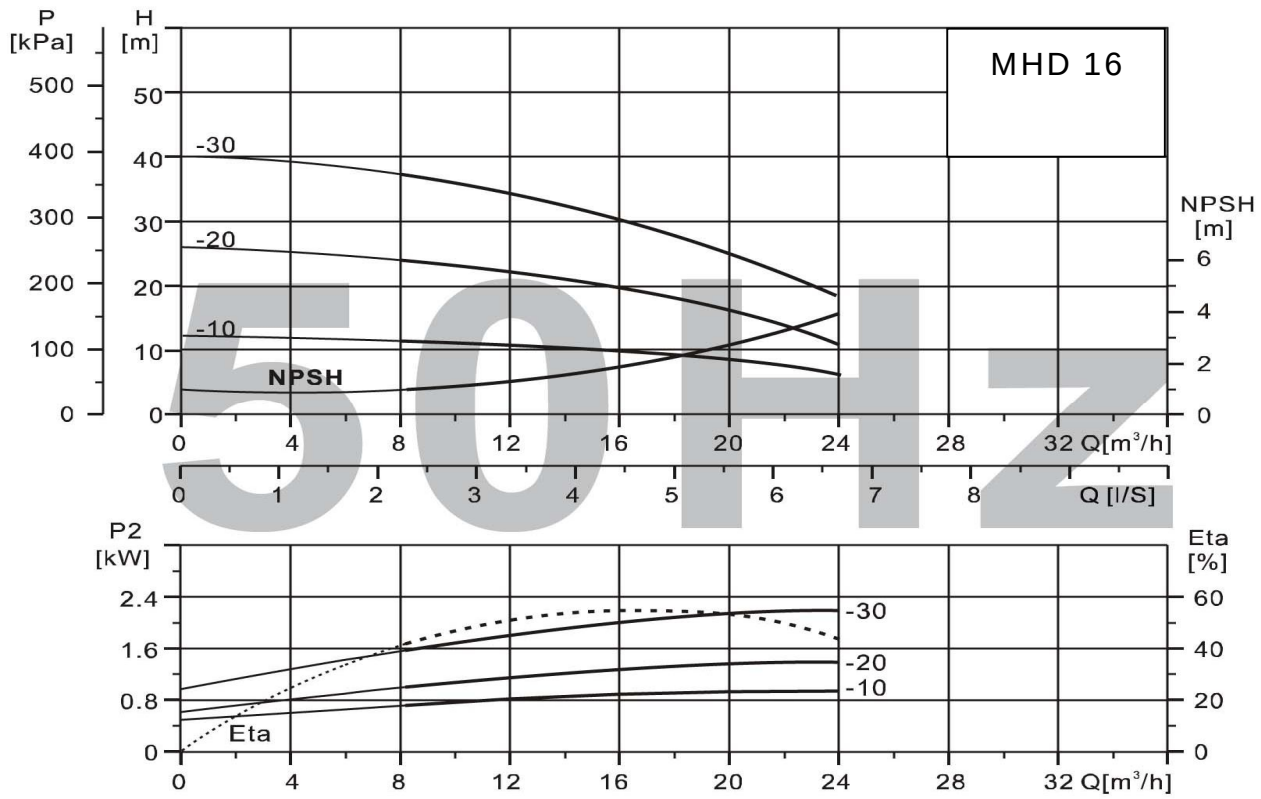
Model		Driving Motor P2 (Kw)	Q (m^3/hr)	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
1 Ø	3 Ø											
MHD 12 - 1	MHD 12 - 1	1.0		19	18	17.5	16	15.5	14	13.5	12	10.5
MHD 12 - 15	MHD 12 - 15	1.5		28	27	26	25	24	22	20	18	15
MHD 12 - 2	MHD 12 - 2	1.85	H (m)	38	36	35	32	31	29	28	24	20
MHD 12 - 25	MHD 12 - 25	2.2		47	45	43	41.5	39	36	33.5	30.5	27
-	MHD 12 - 3	3.0		53.5	52	50	47.5	45	42	39	35	30

DIMENSIONAL DETAILS



Model	Size (mm)				Weight (Kg)
	1 Ø		3 Ø		
	L1	H	L1	H	
MHD 12 - 1	425	245	425	224	12
MHD 12 - 15	458	255	458	232	13.5
MHD 12 - 2	500	239	458	232	21
MHD 12 - 25	500	239	458	232	24
MHD 12 - 3	-	-	518	239	27

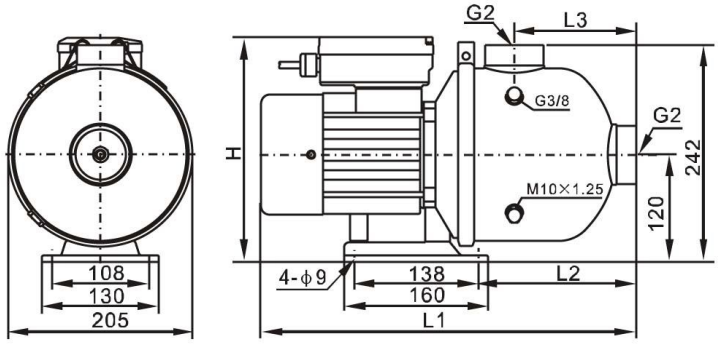
PERFORMANCE CURVE



PERFORMANCE TABLE

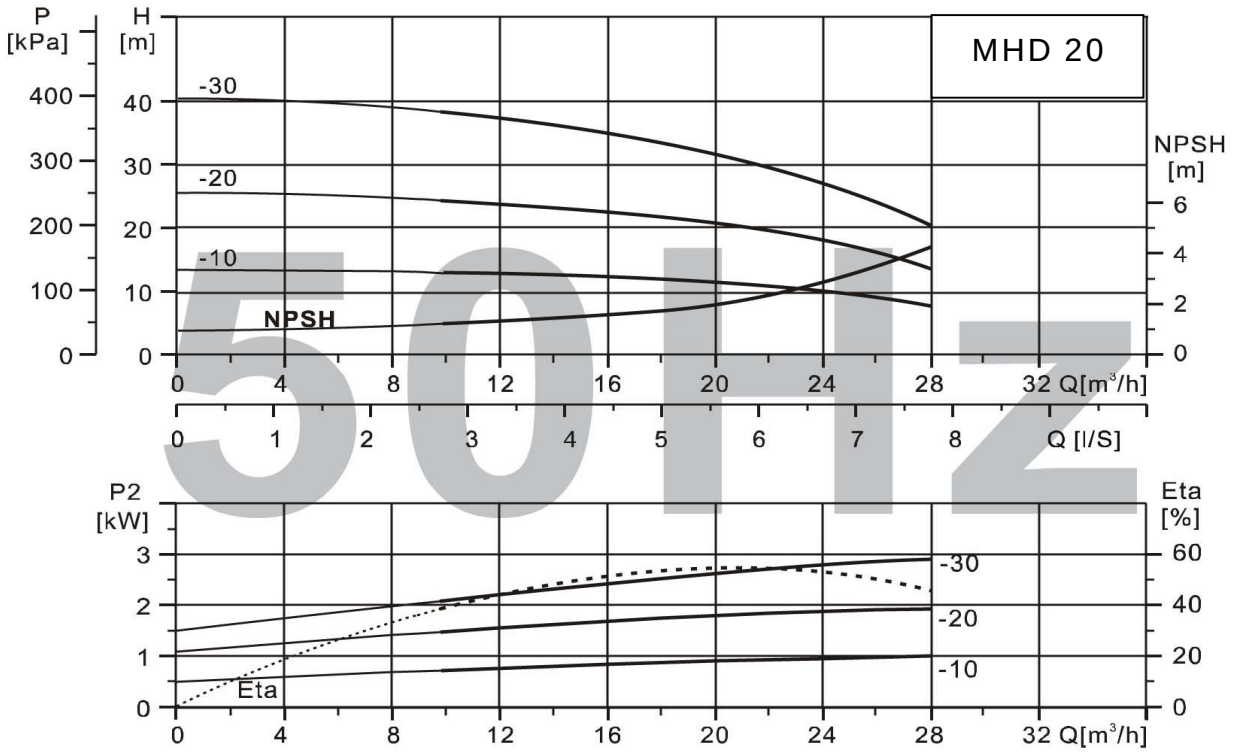
Model	Driving Motor P2 (Kw)	Q (m^3/hr)	8	10	12	14	16	18	20	22	24
MHD 16-1	1.1	H (m)	12	11.5	11	10.5	10	9	8	7	6
MHD 16-2	1.5		24	23	22	21	20	19	16	14	12
MHD 16-3	2.2		38	36	34	33	30	28	26	23	20

DIMENSIONAL DETAILS



Model	Size (mm)								Weight (Kg)
	1 Ø				3 Ø				
	L1	L2	L3	H	L1	L2	L3	H	
MHD 16-1	425	175	136	245	425	175	136	224	13.5
MHD 16-2	455	175	136	254	455	175	136	232	17.0
MHD 16-3	520	201	162	239	480	201	162	232	23.0

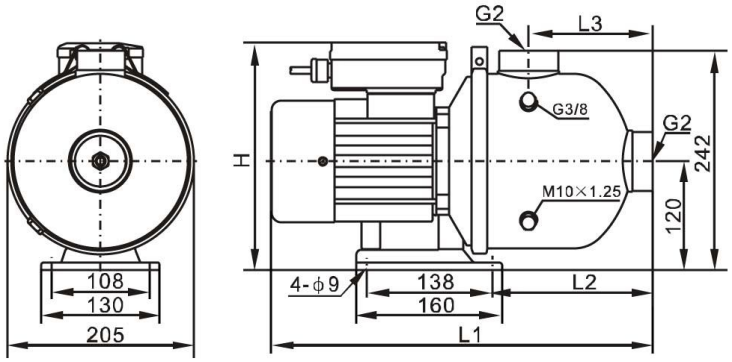
PERFORMANCE CURVE



PERFORMANCE TABLE

Model		Driving Motor P2 (Kw)	Q (m^3/hr)	10	12	14	16	18	20	22	24	26	28
1 Ø	3 Ø												
MHD 20 – 1	MHD 20 – 1	1.0	H (m)	13	12.5	12	11.5	11	10.5	10	9	8.5	7.5
MHD 20 - 2	MHD 20 - 2	1.85		25	24	23	22	21	20	18	16	14	12
-	MHD 20 - 3	3.0		39	38	36	35	33	31.5	30	27	24	21

DIMENSIONAL DETAILS



Model	Size (mm)								Weight (Kg)
	1 Ø				3 Ø				
	L1	L2	L3	H	L1	L2	L3	H	
MHD 20 – 1	425	175	136	245	425	175	136	224	20.0
MHD 20 - 2	498	175	136	239	455	175	136	232	22.0
MHD 20 - 3	-	-	-	-	540	201	162	239	25.0

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