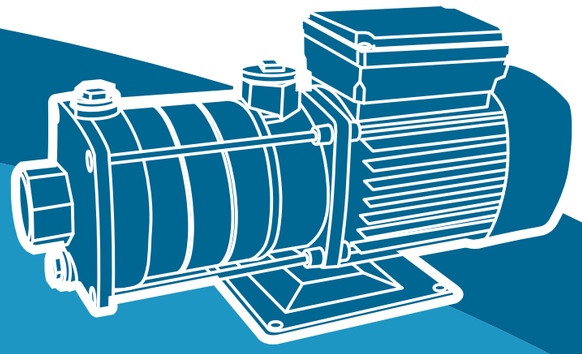
HORIZONTAL MULTISTAGE CENTRIFUGAL PUMP

WHMI, WHM SERIES

50 Hz



General Date

Application

The WHMI,WHM series are primarily for the industry:

- Water treatment processes
- Industrial cleaner and dishwasher
- Water boosting on process
- Heating and cooling for industrial process
- Air-conditioning system
- Air freshening、heater device(soft water)
- Water supply and boosting(drinking water、light chlorine water)
- Fertilization/metering system
- Other special using

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 conditions

- Liquid temperature:Low temperature: -20℃ ~ +15℃;
  Standard model:+15℃~70℃;
  High temperature:+70℃~+104℃;
- Max. environmental temperature: + 50℃
- Max. operating pressure: 10 bar
- Max. suction pressure is limited by max. operating pressure

Motor

- 2-pole induction motor;
- Single-phase: 220~240V/50Hz,110V/60Hz,220V/60Hz
- Three-phase: 220/380V/50Hz,220/380V/60Hz
- Insulation class: F
- Protection: IP55
- Continuous duty
- Single-phase with 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 and radial outlet.

Model Instruction

WHMI/WHM 2 - 50 T - A - W - G - B A B E

- WHMI/WHM: Horizontal multistage section type centrifugal pump
  WHMI for inlet and outlet section is AISI304
  WHM for inlet and outlet section is cast iron
- 2: Rated flow m^3/h
- 50: Number of stages x10
- T: Single Phase without mark Three Phase : T
- A: Pump model
- W: The connection model of pipeline
- G: Material
- B A B E: Shaft seal code

Code number Instruction

A - W - G - B A B E

Pump model
- "A" Normal

Pipeline connection
- "W" Inside thread
- "B" NPT thread
- "N" Special connection hread

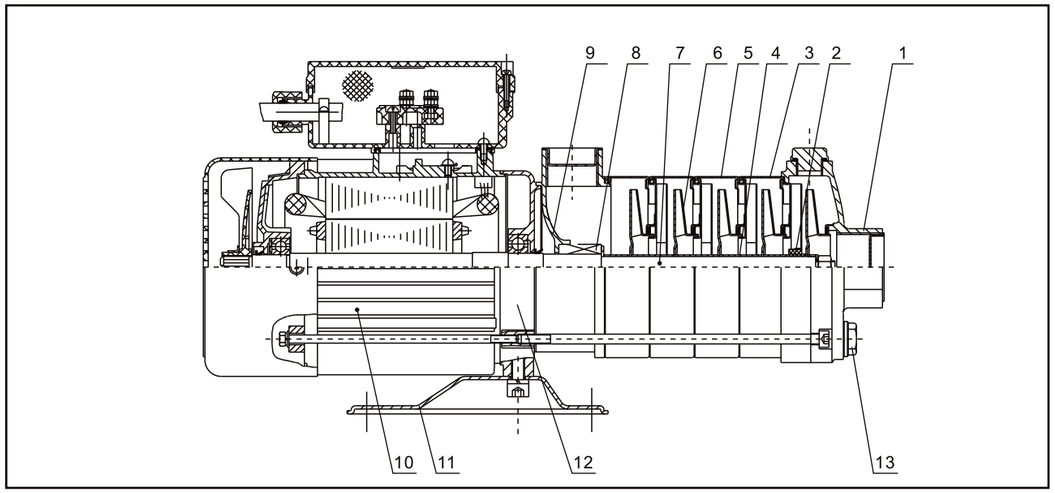
Material
- "G" AISI304 stainless steel
- "S" AISI316 stainless steel
- "P" PPO Impeller middle

Shaft seal
- "B" The rubber place shaft seal
- "D" Direct drive tpye mechanical seal
- "U" Tungsten carbide
- "Q" Silicon carbide
- "A" Ceramic
- "B" Carbon
- "E" EPDM
- "V" Fluorine rubber
- "N" NBR

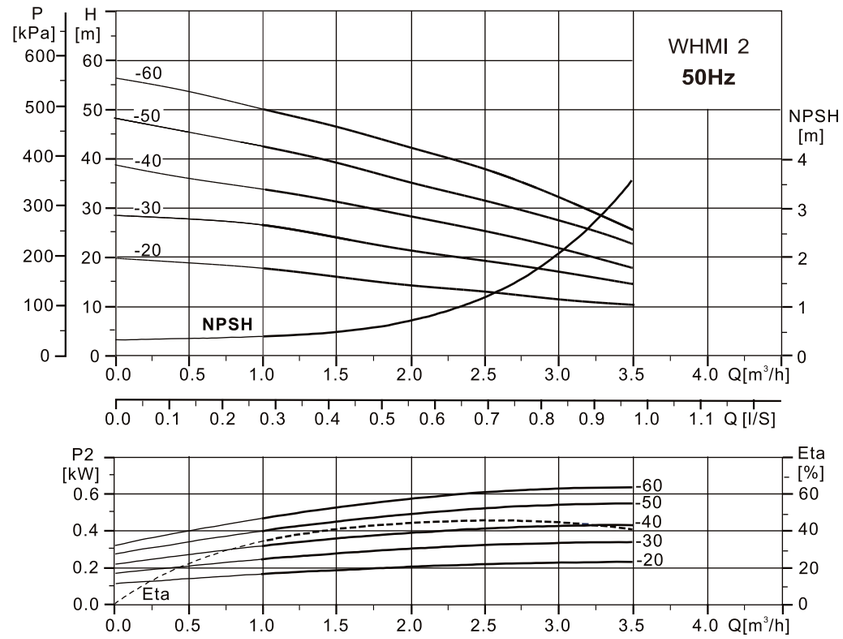
Model	WHMI 2 WHM 2	WHMI 4 WHM 4	WHMI 8	WHM 8	WHMI 12 WHM 12	WHMI 16 WHM 16	WHMI 20 WHM 20
Inlet	G1	G1 1/4	G1 1/2	G1 1/2	G1 1/2	G2	G2
Outlet	G1	G1	G1 1/2	G1 1/4	G1 1/2	G2	G2

Material

No.	Name	Material	AISI/ASTM
2	Bearing sleeve	Hard alloy	
3	Support guide vane	Stainless steel	AISI304 or AISI316
4	Separating sleeve	Stainless steel	AISI304 or AISI316
5	Middle section	Stainless steel	AISI304 or AISI316
6	Impeller	Stainless steel	AISI304 or AISI316
7	Shaft	Stainless steel	AISI304L or AISI316
8	Mechanical seal	BABE, BABV, BQQE, BQQV	
10	Motor		
11	Base frame	Cast iron or steel	
12	Front cover	Aluminum alloy	
13	Plug	Stainless steel	AISI304 or AISI316
WHMI			
1	Inlet section	Stainless steel	AISI304 or AISI316
9	Outlet section	Stainless steel	AISI304 or AISI316
WHM			
1	Inlet section	Cast iron	
9	Outlet section	Cast iron	



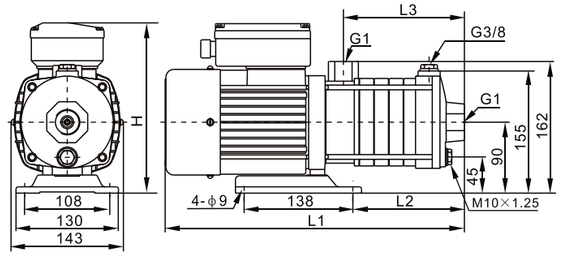
Performance curve



Performance table

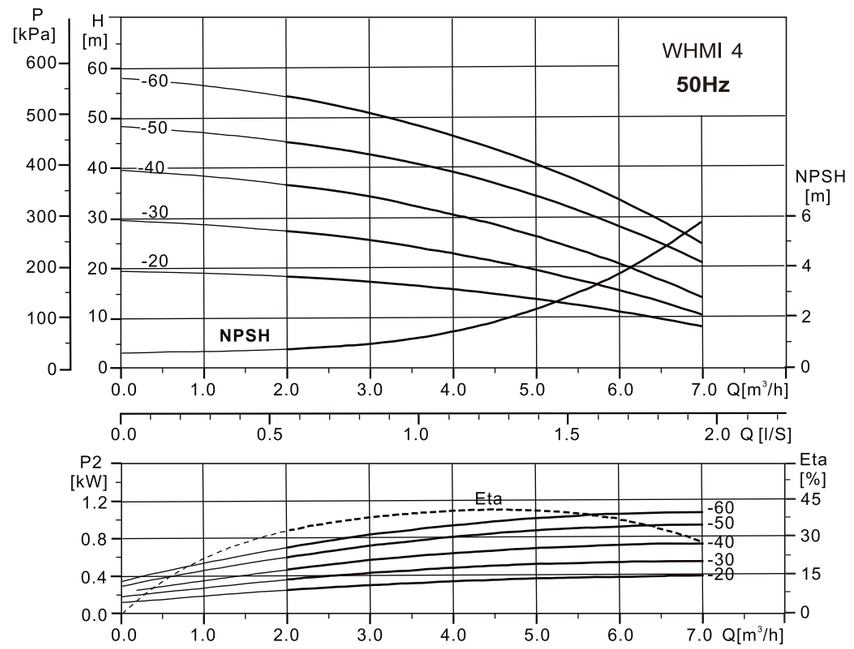
Model	Driving motor P_2(kW)	Q (m^3/h)	1.0	1.5	2.0	2.5	3.0	3.5
WHMI 2-20	0.37	H (m)	18	16	14	13	11	10
WHMI 2-30	0.37		27	24	21	20	17	14
WHMI 2-40	0.55		35	32	28	26	23	17
WHMI 2-50	0.55		43	40	35	33	28	22
WHMI 2-60	0.75		50	48	42	38	32	25

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHMI2-20(T)	326	90	100	216	326	90	100	194	8.5
WHMI2-30(T)	344	108	118	216	344	108	118	194	9
WHMI2-40(T)	362	126	136	216	362	126	136	194	9.5
WHMI2-50(T)	380	144	154	216	380	144	154	194	9.5
WHMI2-60(T)	398	162	172	216	398	162	172	194	10.5

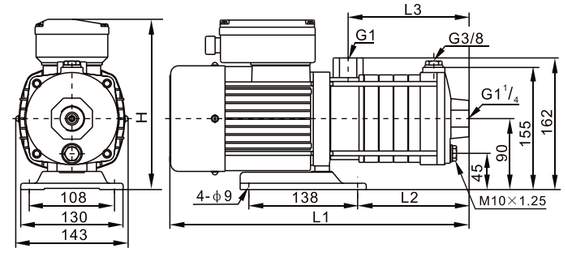
Performance curve



Performance table

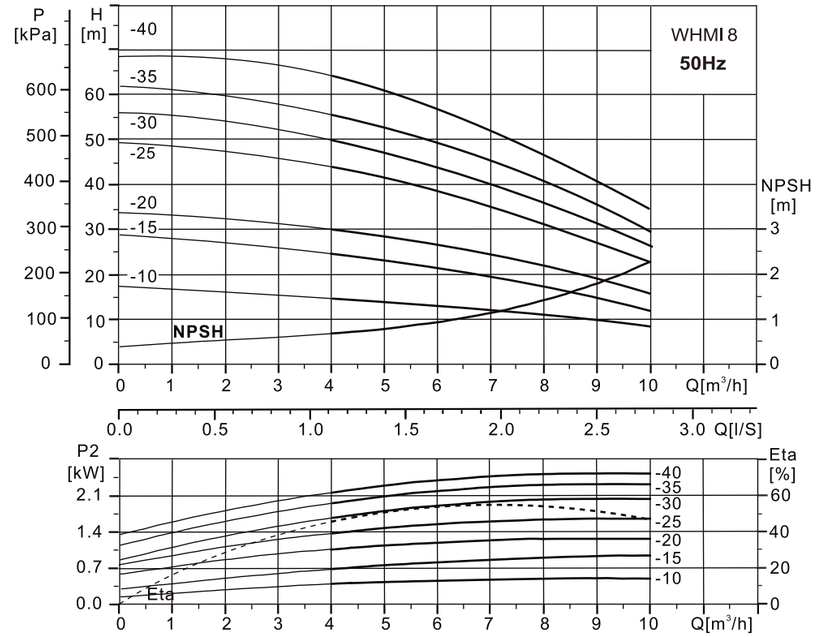
Model	Driving motor P_2(kW)	Q (m^3/h)	2.0	3.0	4.0	5.0	6.0	7.0
WHMI 4-20	0.55	H (m)	18	16	15	13	10	7
WHMI 4-30	0.75		27	25	22	19	15	10
WHMI 4-40	0.75		36	33	30	26	20	13
WHMI 4-50	1.0		44	41	38	32	26	20
WHMI 4-60	1.1		53	50	45	40	33	24

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHMI4-20(T)	335	99	109	216	335	99	109	194	9
WHMI4-30(T)	362	126	136	216	362	126	136	194	10
WHMI4-40(T)	389	153	163	216	389	153	163	194	10.5
WHMI4-50(T)	416	180	190	216	415	180	190	194	11
WHMI4-60(T)	443	207	217	216	443	207	217	194	12

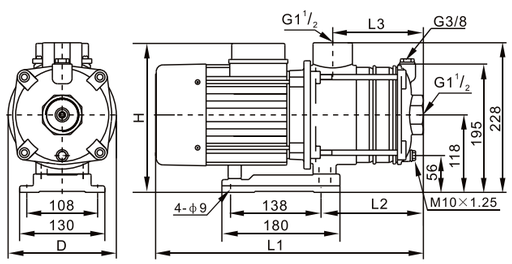
Performance curve



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	4.0	5.0	6.0	7.0	8.0	9.0	10
WHMI 8-10	0.55	H (m)	15	14	13	12.5	12	9	8
WHMI 8-15	0.75		25	23	22	21	20	14	12
WHMI 8-20	1.0		32	29	27	25	24	21	17
WHMI 8-25	1.5		43	40	38	34	27	25	20
WHMI 8-30	1.85		50	46	44	40	36	30	26
WHMI 8-35	2.2		56	51	48	44	43	35	28
WHMI 8-40	2.2		65	57.5	57	50	48	42	34

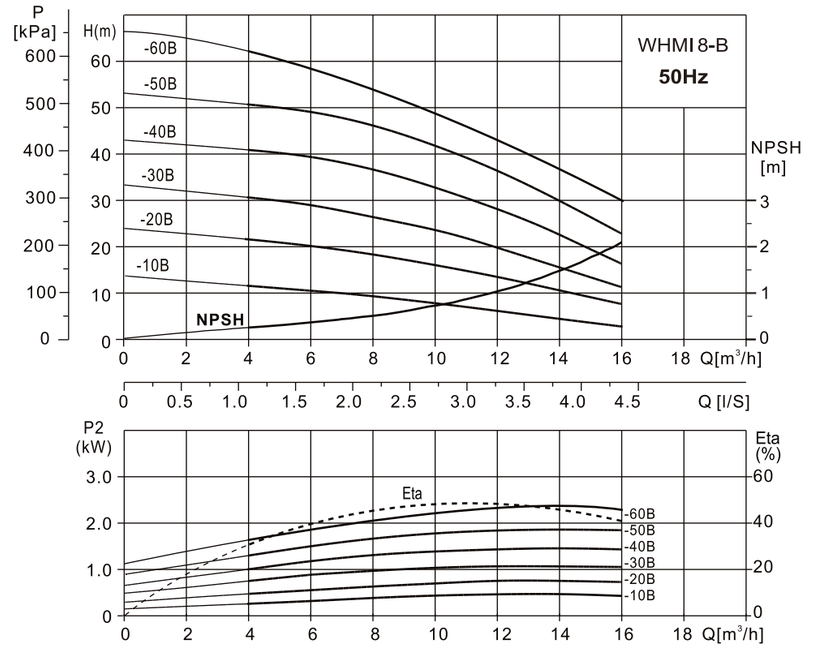
Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
WHMI8-10(T)	316	90	78	244	165	316	90	78	222	165	12
WHMI8-15(T)	346	120	108	244	165	346	120	108	222	165	14
WHMI8-20(T)	346	120	108	244	165	346	120	108	222	165	17
WHMI8-25(T)	412	150	138	254	165	412	150	138	232	165	19
WHMI8-30(T)	455	150	138	239	170	412	150	138	232	165	24
WHMI8-35(T)	485	180	168	239	170	442	180	168	232	165	25
WHMI8-40(T)	485	180	168	239	170	442	180	168	232	165	26

pump cover with G2 inlet/outlet is available

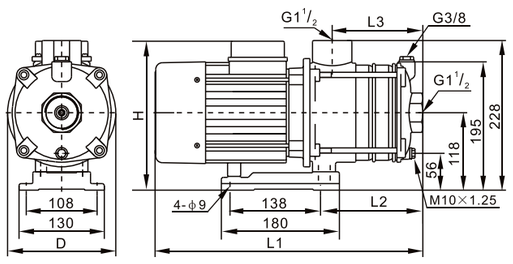
Performance curve



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	4.0	6.0	8.0	10	12	14	16
WHMI 8-10B	0.55	H (m)	11	10	9	8	7	6	5
WHMI 8-20B	0.75		22	20	19	18	13	11	8
WHMI 8-30B	1.1		31	29	26	24	20	16	11
WHMI 8-40B	1.5		41	39	37	33	28	23	17
WHMI 8-50B	2.2		51	49	46.5	42	37	30	23
WHMI 8-60B	3.0		62	58	52	48	42	36	30

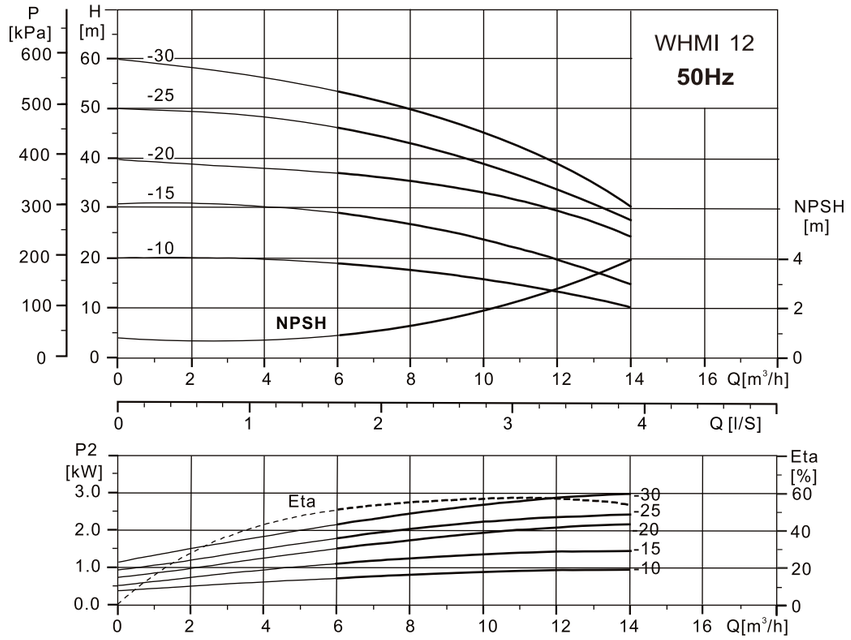
Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L3	L3	H	D	L1	L2	L3	H	D	
WHMI8-10B(T)	316	90	78	244	165	316	90	78	244	165	13
WHMI8-20B(T)	346	120	108	244	165	346	120	108	244	165	14
WHMI8-30B(T)	412	150	138	254	165	412	150	138	228	165	18
WHMI8-40B(T)	442	180	168	254	165	442	180	168	228	165	19
WHMI8-50B(T)	515	210	198	235	170	468	210	198	228	165	27
WHMI8-60BT	–	–	–	–	–	562	240	228	235	165	30

Pump cover with G2 inlet/outlet is available

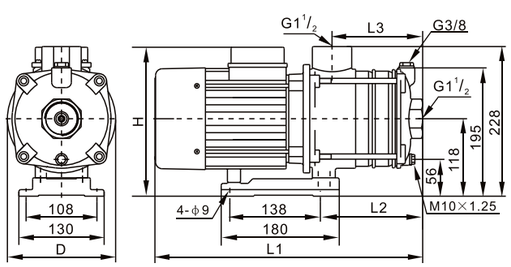
Performance curve



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	6.0	7.0	8.0	9.0	10	11	12	13	14
WHMI 12-10	1.0	H (m)	19	18	17.5	16	15.5	14	13.5	12	10.5
WHMI 12-15	1.5		28	27	26	25	24	22	20	18	15
WHMI 12-20	1.85		38	36	35	32	31	29	28	24	20
WHMI 12-25	2.2		47	45	43	41.5	39	36	33.5	30.5	27
WHMI 12-30	3.0		53.5	52	50	47.5	45	42	39	35	30

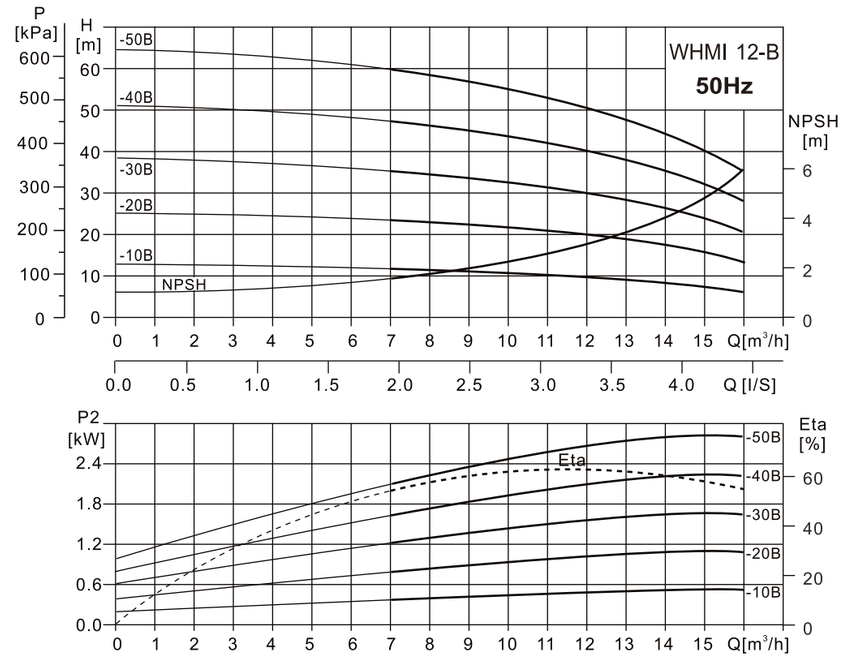
Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
WHMI12-10(T)	316	90	78	244	165	316	90	78	222	165	13
WHMI12-15(T)	382	120	108	254	165	382	120	108	232	165	15
WHMI12-20(T)	423	120	108	239	170	382	120	108	232	165	23
WHMI12-25(T)	454	150	138	239	170	412	150	138	232	165	25
WHMI12-30T	–	–	–	–	–	472	150	138	239	170	27

pump cover with G2 inlet/outlet is available

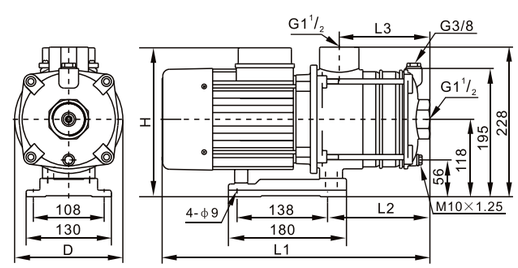
Performance curve



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	7.0	8.0	9.0	10	11	12	13	14	15	16
WHMI 12-10B	0.75	H (m)	12	11.5	11	10.5	10	9.5	9	8	7	6
WHMI 12-20B	1.1		23	22.5	22	21	20.5	19.5	18.5	17	15.5	13
WHMI 12-30B	1.85		35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
WHMI 12-40B	2.2		47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
WHMI 12-50B	3.0		60	58	56.5	55	52.5	50	47	44	40	35

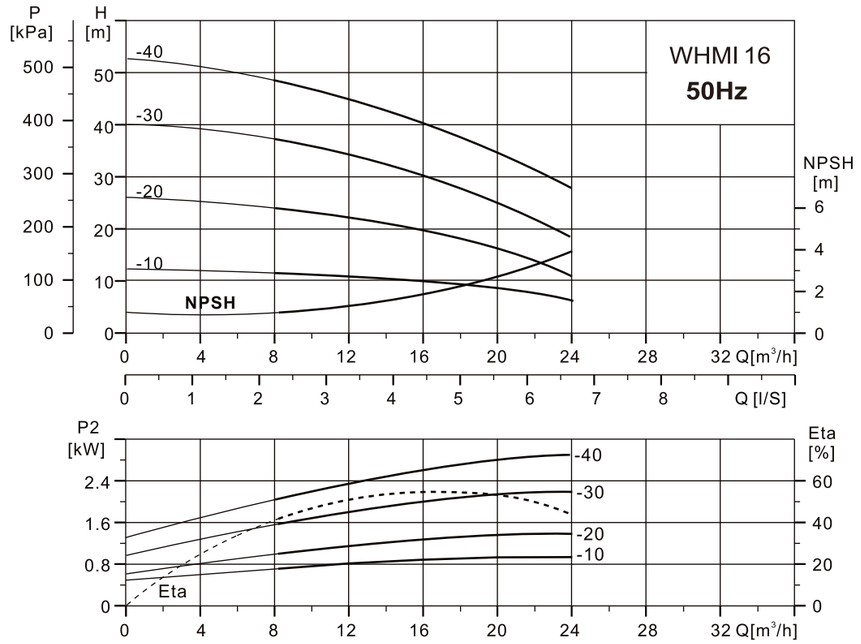
Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
WHMI12-10B(T)	317	90	78	244	165	317	90	78	222	165	12
WHMI12-20B(T)	382	120	108	254	165	382	120	108	232	165	14
WHMI12-30B(T)	454	150	138	239	170	412	150	138	232	165	25
WHMI12-40B(T)	484	180	158	239	170	444	180	168	232	165	27
WHMI12-50BT	–	–	–	–	–	532	210	198	237	170	30

Pump cover with G2 inlet/outlet is available

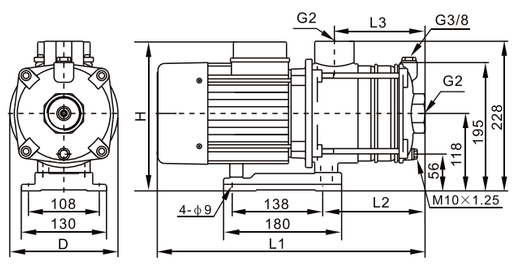
Performance curve



Performance table

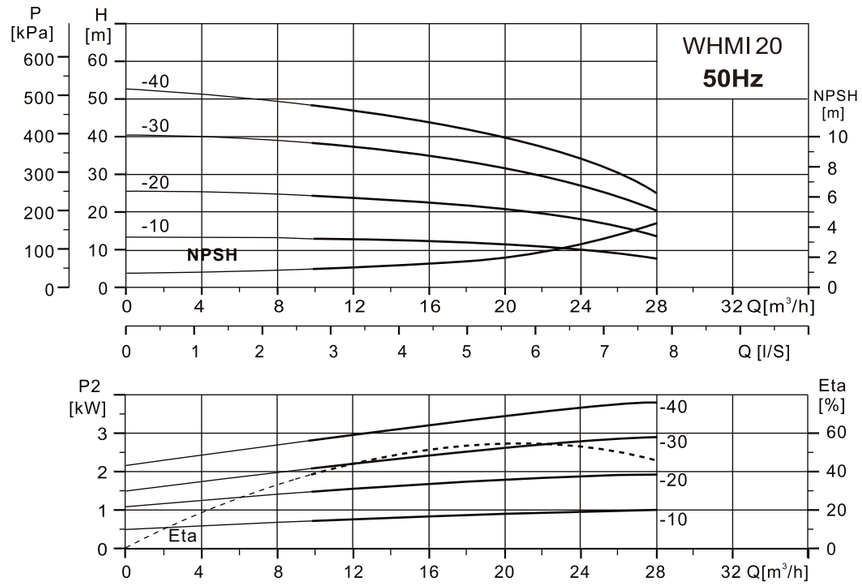
Model	Driving motor P_2(kW)	Q (m^3/h)	8	10	12	14	16	18	20	22	24
WHMI 16-10	1.0	H (m)	12	11.5	11	10.5	10	9	8	7	6
WHMI 16-20	1.5		24	23	22	21	20	19	16	14	12
WHMI 16-30	2.2		38	36	34	33	30	28	26	23	20
WHMI 16-40	3.0		50	48	46	44	40	38	36	32	28

Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
WHMI16-10(T)	326	96	81	244	165	326	96	81	222	165	12
WHMI16-20(T)	406	141	126	254	165	406	141	126	232	165	18
WHMI16-30(T)	495	186	171	239	170	451	186	171	232	165	25
WHMI16-40T	–	–	–	–	–	556	231	216	239	170	28

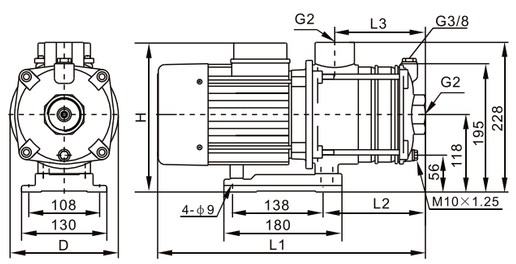
Performance curve



Performance table

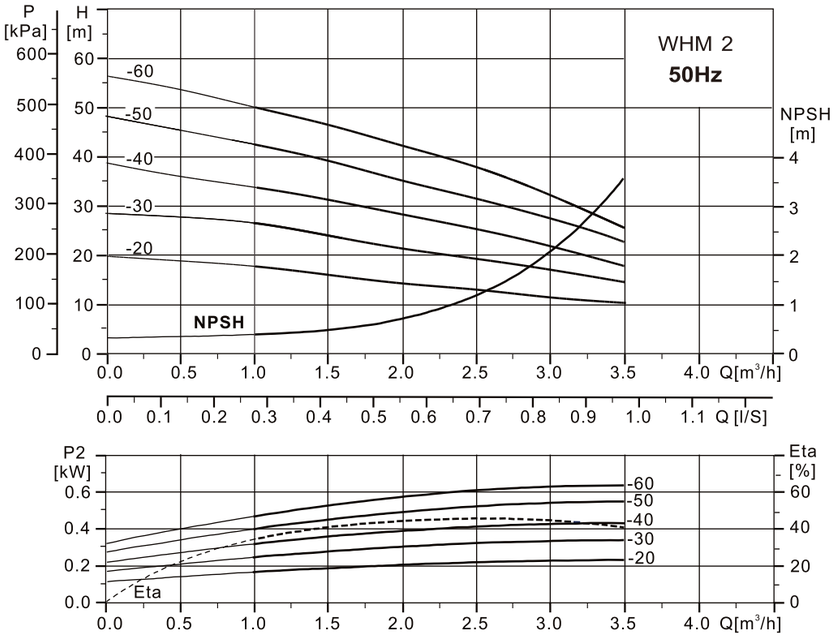
Model	Driving motor P_2(kW)	Q (m^3/h)	10	12	14	16	18	20	22	24	26	28
WHMI 20-10	1.0	H (m)	13	12.5	12	11.5	11	10.5	10	9	8.5	7.5
WHMI 20-20	1.85		25	24	23	22	21	20	18	16	14	12
WHMI 20-30	3.0		39	38	36	35	33	31.5	30	27	24	21
WHMI 20-40	4.0		50	48	46	44	42	40	36	32	28	24

Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
WHMI20-10(T)	326	96	81	244	165	326	96	81	222	165	14
WHMI20-20(T)	448	141	126	239	170	406	141	126	232	165	24
WHMI20-30T	–	–	–	–	–	511	186	171	239	170	28
WHMI20-40T	–	–	–	–	–	575	316	216	248	195	33

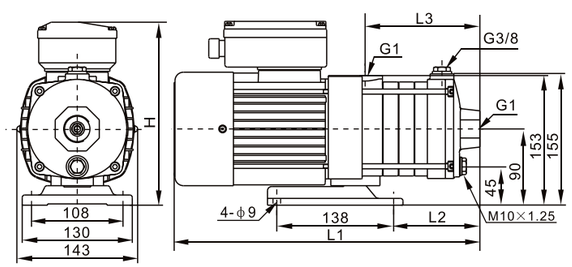
Performance curve



Performance table

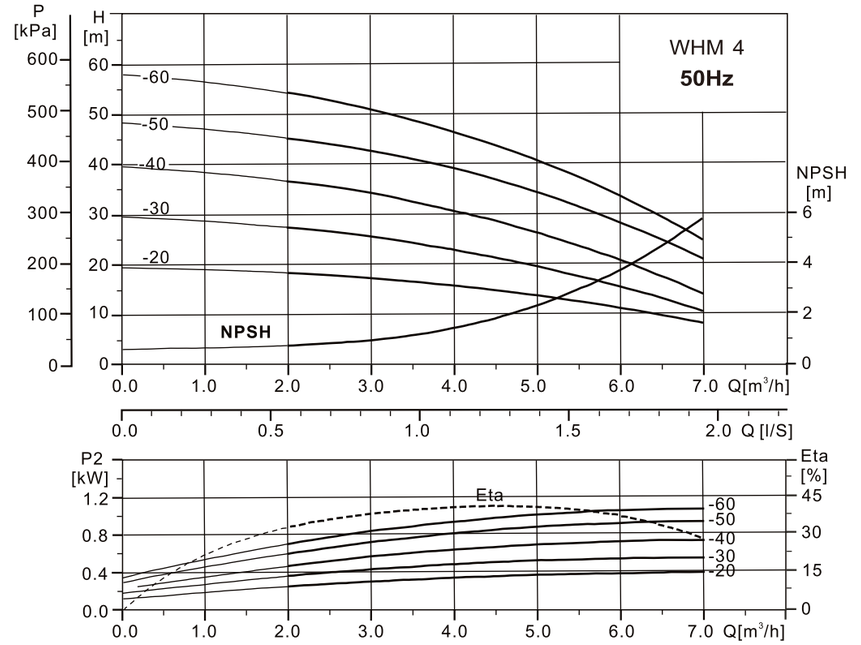
Model	Driving motor P_2(kW)	Q (m^3/h)	1.0	1.5	2.0	2.5	3.0	3.5
WHM 2-20	0.37	H (m)	18	16	14	13	11	10
WHM 2-30	0.37		27	24	21	20	17	14
WHM 2-40	0.55		35	32	28	26	23	17
WHM 2-50	0.55		43	40	35	33	28	22
WHM 2-60	0.75		50	48	42	38	32	25

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHM 2-20(T)	326	70	104	216	326	70	104	194	8.5
WHM 2-30(T)	344	88	122	216	344	88	122	194	9
WHM 2-40(T)	362	106	140	216	362	106	140	194	9.5
WHM 2-50(T)	380	124	158	216	380	124	158	194	10
WHM 2-60(T)	398	142	176	216	398	142	176	194	10.5

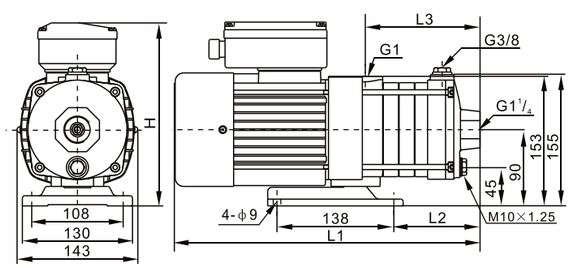
Performance curve



Performance table

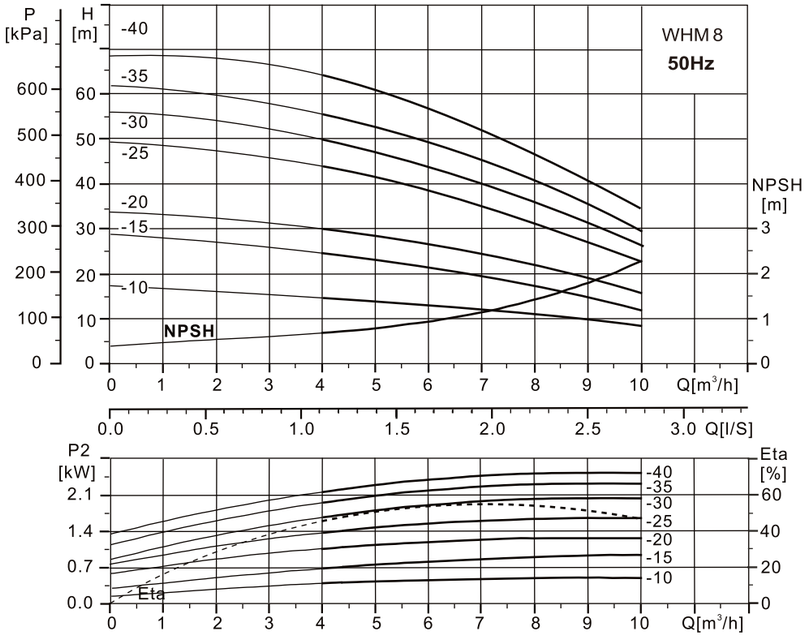
Model	Driving motor P_2(kW)	Q (m^3/h)	2.0	3.0	4.0	5.0	6.0	7.0
WHM 4-20	0.55	H (m)	18	16	15	13	10	7
WHM 4-30	0.75		27	25	22	19	15	10
WHM 4-40	0.75		36	33	30	26	20	13
WHM 4-50	1.0		44	41	38	32	26	20
WHM 4-60	1.1		53	50	45	40	33	24

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHM 4-20(T)	335	79	113	216	335	79	113	194	9
WHM 4-30(T)	362	106	140	216	362	106	140	194	10
WHM 4-40(T)	389	133	167	216	389	133	167	194	10.5
WHM 4-50(T)	416	160	194	216	416	160	194	194	11
WHM 4-60(T)	443	187	221	216	443	187	221	194	12

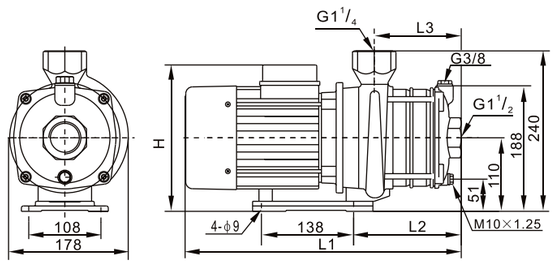
Performance curve



Performance table

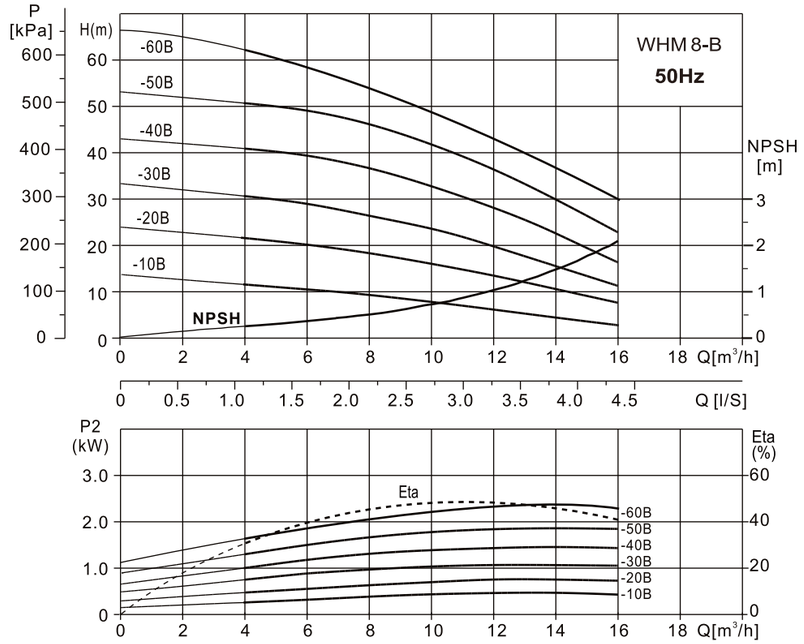
Model	Driving motor P_2(kW)	Q (m^3/h)	4.0	5.0	6.0	7.0	8.0	9.0	10
WHM 8-10	0.55	H (m)	15	14	13	12.5	12	9	8
WHM 8-15	0.75		25	23	22	21	20	14	12
WHM 8-20	1.0		32	29	27	25	24	21	17
WHM 8-25	1.5		43	40	38	34	27	25	20
WHM 8-30	1.85		50	46	44	40	36	30	26
WHM 8-35	2.2		56	51	48	44	43	35	28
WHM 8-40	2.2		65	57.5	57	50	48	42	34

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHM 8-10(T)	328	73	78	235	328	73	78	214	13
WHM 8-15(T)	358	103	108	235	358	703	108	214	15
WHM 8-20(T)	358	103	108	235	358	103	108	214	18
WHM 8-25(T)	426	133	138	244	426	133	138	222	20
WHM 8-30(T)	468	133	138	230	426	133	138	222	25
WHM 8-35(T)	500	163	168	230	456	163	168	222	30
WHMI8-40(T)	500	163	168	230	456	163	168	222	31

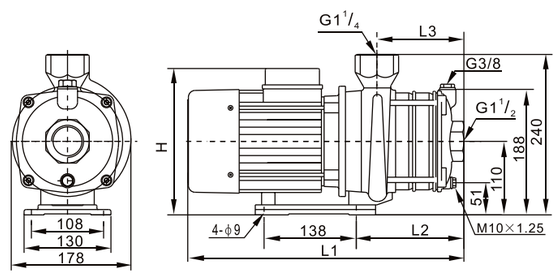
Performance curve



Performance table

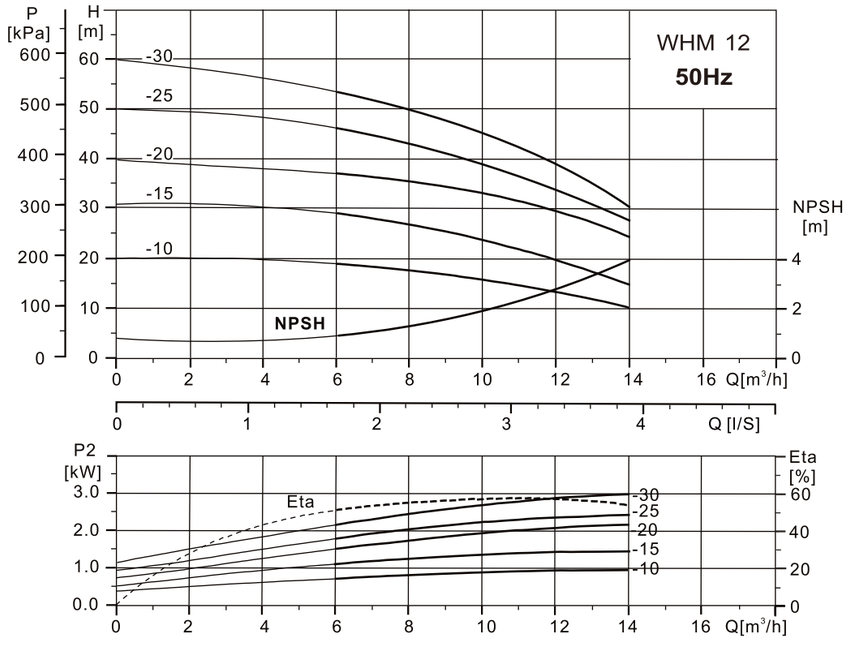
Model	Driving motor P_2(kW)	Q (m^3/h)	4.0	6.0	8.0	10	12	14	16
WHMI 8-10B	0.55	H (m)	11	10	9	8	7	6	5
WHMI 8-20B	0.75		22	20	19	18	13	11	8
WHMI 8-30B	1.1		31	29	26	24	20	16	11
WHMI 8-40B	1.5		41	39	37	33	28	23	17
WHMI 8-50B	2.2		51	49	46.5	42	37	30	23
WHMI 8-60B	3.0		62	58	52	48	42	36	30

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHM 8-10B(T)	326	73	78	237	326	73	78	216	14
WHM 8-20B(T)	356	103	108	237	356	103	108	216	15
WHM 8-30B(T)	416	133	138	246	416	133	138	222	19
WHM 8-40B(T)	446	163	168	246	446	163	168	222	20
WHM 8-50B(T)	521	193	198	227	476	193	198	222	28
WHM 8-60BT	–	–	–	–	568	223	228	227	29

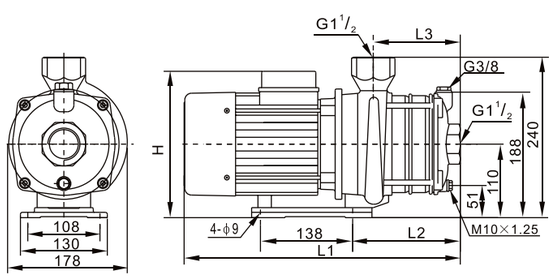
Performance curve



Performance table

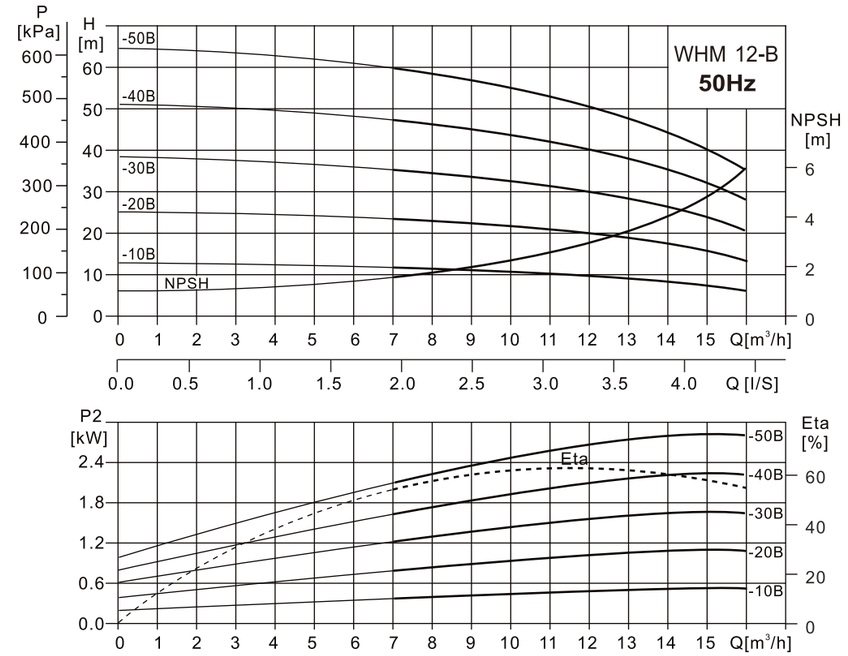
Model	Driving motor P_2(kW)	Q (m^3/h)	6.0	7.0	8.0	9.0	10	11	12	13	14
WHM 12-10	1.0	H (m)	19	18	17.5	16	15.5	14	13.5	12	10.5
WHM 12-15	1.5		28	27	26	25	24	22	20	18	15
WHM 12-20	1.85		38	36	35	32	31	29	28	24	20
WHM 12-25	2.2		47	45	43	41.5	39	36	33.5	30.5	27
WHM 12-30	3.0		53.5	52	50	47.5	45	42	39	35	30

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHM 12-10(T)	328	73	78	235	328	73	78	214	15
WHM 12-15(T)	395	103	108	244	395	103	108	222	18
WHM 12-20(T)	436	103	108	230	395	103	108	222	20
WHM 12-25(T)	468	133	138	230	426	133	138	222	24
WHM 12-30T	–	–	–	–	485	133	138	230	27

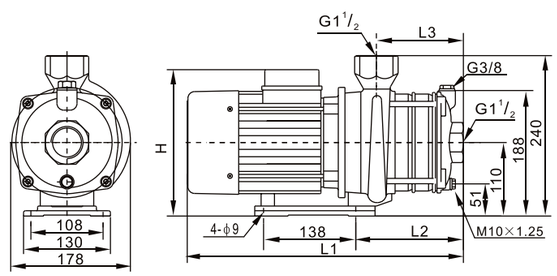
Performance curve



Performance table

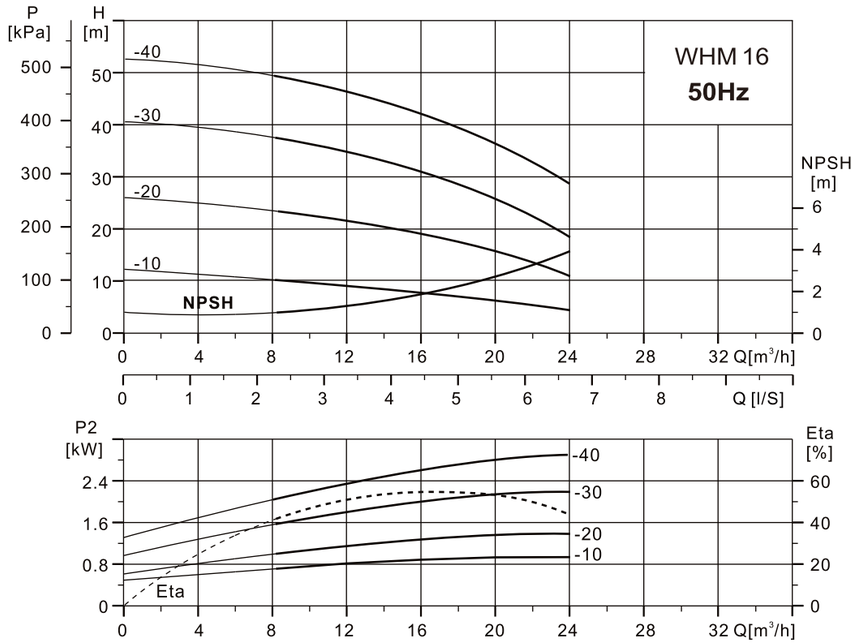
Model	Driving motor P_2(kW)	Q (m^3/h)	7.0	8.0	9.0	10	11	12	13	14	15	16
WHM 12-10B	0.75	H (m)	12	11.5	11	10.5	10	9.5	9	8	7	6
WHM 12-20B	1.1		23	22.5	22	21	20.5	19.5	18.5	17	15.5	13
WHM 12-30B	1.85		35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
WHM 12-40B	2.2		47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
WHM 12-50B	3.0		60	58	56.5	55	52.5	50	47	44	40	35

Installation sketch



Model	Dimensions(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
WHM12-10B(T)	330	73	78	237	330	73	78	216	13
WHM12-20B(T)	395	103	108	246	395	103	108	222	15
WHM12-30B(T)	467	133	138	227	425	133	138	222	26
WHM12-40B(T)	497	163	168	227	455	163	168	227	28
WHM12-50BT	–	–	–	–	544	193	198	227	31

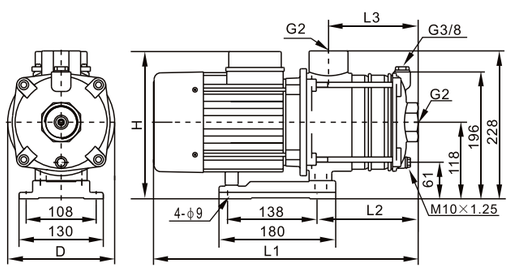
Performance curve



Performance table

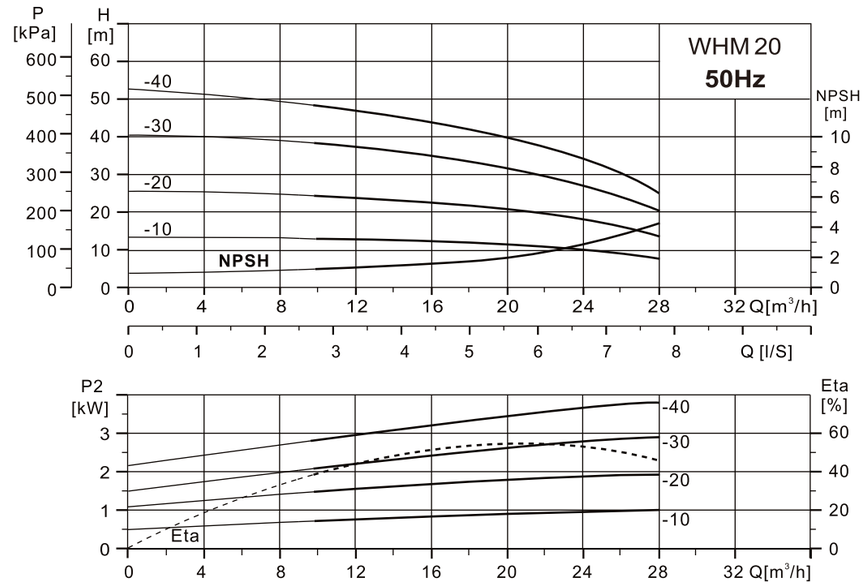
Model	Driving motor P_2(kW)	Q (m^3/h)	8	10	12	14	16	18	20	22	24
WHM 16-10	1.0	H (m)	12	11.5	11	10.5	10	9	8	7	6
WHM 16-20	1.5		24	23	22	21	20	19	16	14	12
WHM 16-30	2.2		38	36	34	33	30	28	26	23	20
WHM 16-40	3.0		50	48	46	44	40	38	36	32	28

Installation sketch



Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	L1	L2	L3	H	D	L1	L2	L3	H	D	
WHM 16-10(T)	325	106	81	244	165	325	106	81	218	165	14
WHM 16-20(T)	406	151	126	254	165	406	151	126	228	165	20
WHM 16-30(T)	493	196	171	235	176	493	196	171	235	176	27
WHM 16-40T	–	–	–	–	–	555	241	216	235	176	30

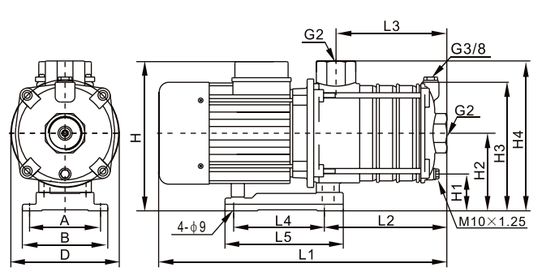
Performance curve



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	10	12	14	16	18	20	22	24	26	28
WHM 20-10	1.0	H (m)	13	12.5	12	11.5	11	10.5	10	9	8.5	7.5
WHM 20-20	1.85		25	24	23	22	21	20	18	16	14	12
WHM 20-30	3.0		39	38	36	35	33	31.5	30	27	24	21
WHM 20-40	4.0		50	48	46	44	42	40	36	32	28	24

Installation sketch



Model	Dimensions(mm)												Weight (kg)
	L1	L2	L3	L4	L5	H	H1	H2	H3	H4	A	B	D	
WHM 20-10	325	106	81	138	180	244	61	118	196	228	108	130	165	16
WHM 20-20	450	151	126	138	180	235	61	118	196	228	108	130	176	26
WHM 20-10T	325	106	81	138	180	218	61	118	196	228	108	130	165	15.5
WHM 20-20T	406	151	126	138	180	228	61	118	196	228	108	130	165	25.5
WHM 20-30T	510	196	171	138	180	235	61	118	196	228	108	130	176	30
WHM 20-40T	575	316	216	140	175	248	43	100	178	210	160	200	195	35