

SPCO®
makes life easier



HM, HMK, HMC, HMN

Horizontal Multistage
Centrifugal Pump, 60Hz

Approvals

		CB TEST CERTIFICATE	Ref. Certificate No. CH-5876
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME			
Issued by:	Electrosuisse		
Product:	Horizontal and vertical multistage pumps		
Applicant:	Swiss Pump Company AG	Mosweg 36 CH-3645 Gwatt (Thun)	Switzerland
Manufacturer:	Swiss Pump Company AG	Mosweg 36 CH-3645 Gwatt (Thun)	Switzerland
Factory:	Swiss Pump Company AG	Mosweg 36 CH-3645 Gwatt (Thun)	Switzerland
Rating and principal characteristics:	3 x 200 - 277048 - 80V~, 50/60Hz; 220-230V~, 50/60Hz; 127-200-240V~, 60Hz class I, IP55		
Trade mark (if any):	Swiss Pump Company AG (SPCO)		
Model/Type reference:	HM..., CH..., VM..., CDL..., ND..., PD..., MB..., QB..., SMF..., CCP..., SCP..., see appendix type list in test report		
Additional information:	---		
Sample of product tested to be in conformity with IEC:	60335-1-041.am12 60335-2-41ad.3.am1.am2	National differences: EU Group Differences; EU Special National Conditions; EU A-Deviations	
Test Report Ref. No.:	0640-0218.01 + .02 + .03 + .05		
This CB Test Certificate is issued by the National Certification Body			
Electrosuisse Luppenstrasse 1, CH-8020 Fehraltorf			
Signed by:	Erich Obriet	page 1 of 1	

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and SQS
hereby certify that the organisation

Swiss Pump Company AG
3645 Thun-Gwatt
Switzerland

Certified area
Whole company

Field of activity
Manufacture and sale of products for the transportation of liquids

has implemented and maintains a
Management System
which fulfills the requirements of the following standard(s)

ISO 9001:2008

Scope No(s): 17, 18, 19
Issued on: 2015-03-03
Validity date: 2018-03-02
Registration Number: **CH-32160**

Michael Drechsel
 President of IQNet

Roland Glauser
 CEO SQS

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General Data

Performance range	page	5
Applications HM - HMK		6
Pump HM - HMK		6
Operating Conditions HM - HMK		6
Pipe Connections		6
Liquids to be pumped		6
Applications HMC - HMN		7
Pump HMC - HMN		7
Operating Conditions HMC - HMN		7
Pipe Connections		7
Definition of model		8
Electrical Motor		9
Mechanical seals		9
Material HM		10
Material HMK		10
Material HMC(N) 2,4		11
Material HMC 8,12		11

Technical Data

HM - HMK 2	page	12
HM - HMK 4		13
HM - HMK 8		14
HM - HMK 12		15
HMC - HMN 2		16
HMC - HMN 4		17
HMC 8		18
HMC 12		19

Horizontal Multistage Pumps

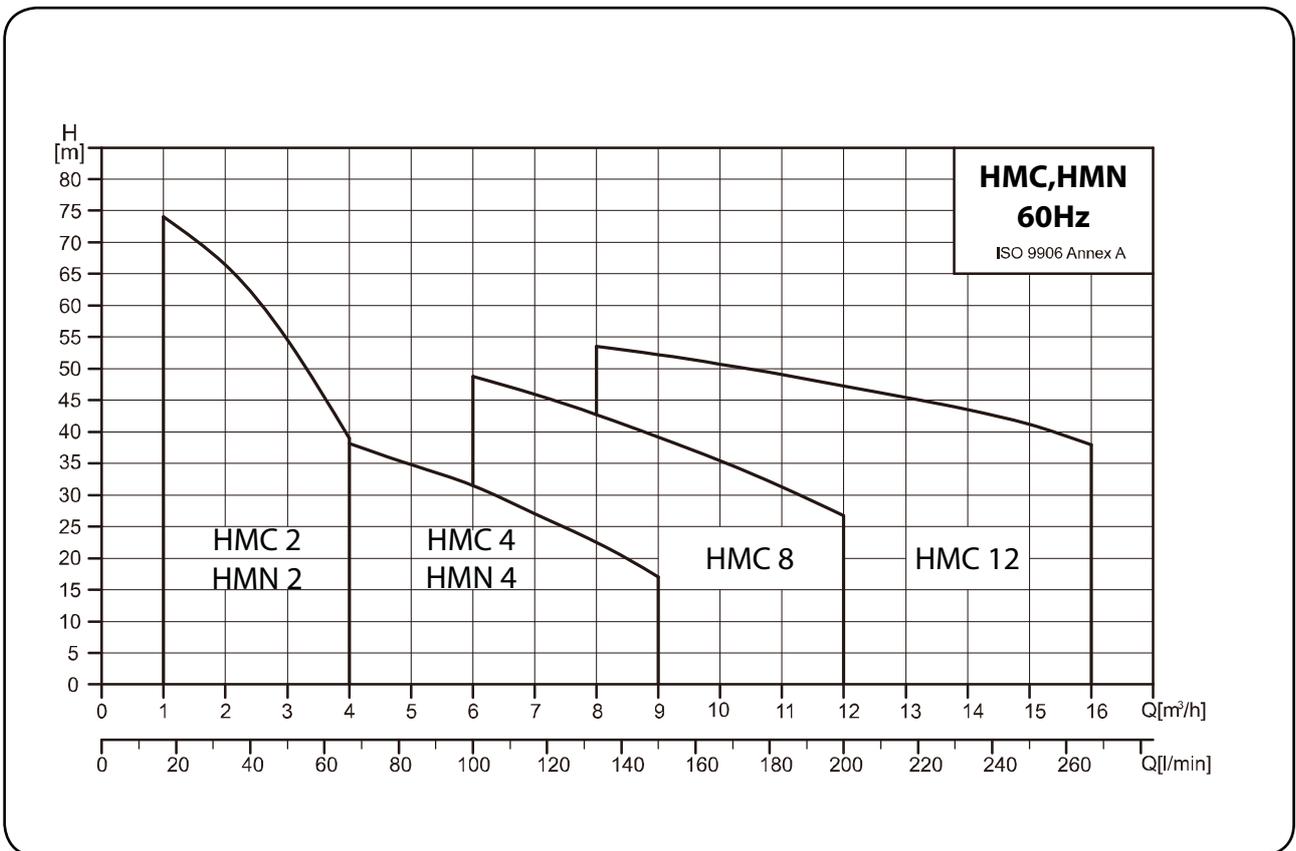
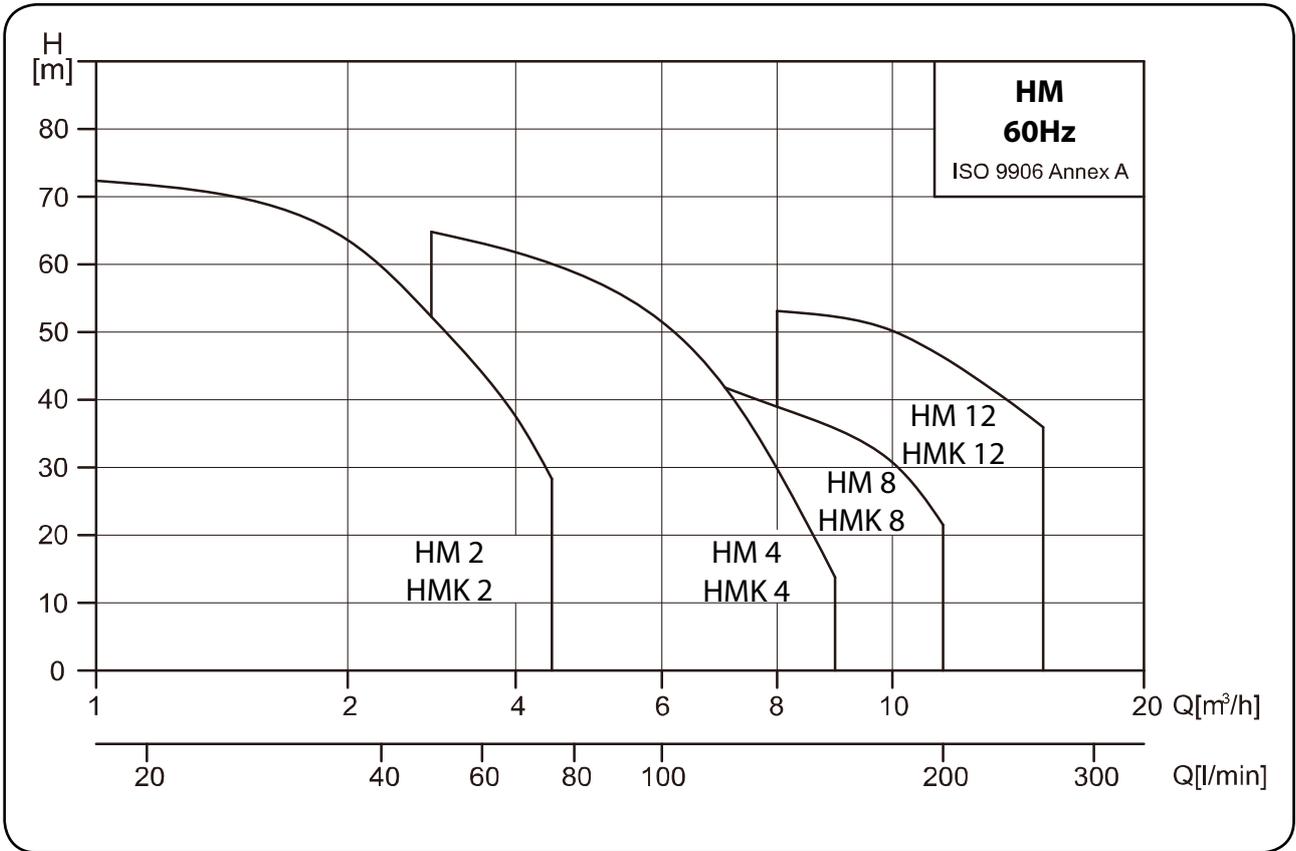
English - SPCO horizontal multistage pumps HMC, HMN and HM with pumping pressure up to 60 meter and flow up to 22 m³/h. All essential parts like shaft, impeller and intermediate chambers are fully stainless steel AISI 304 (W-Nr. 1.43.01) while the suction and discharge are in cast iron for HMC. HM and HMN pumps are fully stainless steel including the suction and discharge parts. The pumps are equipped with mechanical seal silicon carbide / carbon. The pumps have got high efficiency.

Deutsch - SPCO horizontale Hochdruckpumpen der Baureihe HMC, HMN und HM mit Förderhöhen bis zu 60 Metern und Fördermengen bis zu 22 m³/h. Sämtliche wesentlichen Teile wie Welle, Laufräder und Zwischenkammern sind aus Edelstahl AISI (W-Nr. 1.43.01). HM und HMN Pumpen sind komplett aus Edelstahl inkl. der Saug- und Druckstutzen während die HMC Pumpen Grauguss Druck- und Saugstutzen haben. Die Gleitringdichtung besteht aus Kohle / Hartmetall. Die Pumpen haben einen hohen Wirkungsgrad und sind wartungsfrei.

Français - Les pompes de haute pression horizontales SPCO de l'assortiment HMC, HMN et HM avec des hauteurs de propulsion jusqu'à 60 mètres et une puissance de propulsion jusqu'à 22 m³/h. Toutes les pièces principales comme axes, roués libres et espaces intermédiaires sont fabriquées en acier inoxydable AISI 304 (W-No. 1.43.01). Les pompes HM et HMN sont entièrement fabriquées en acier y compris les raccords aspire et marques et le pompe HMC avec le raccord en font gris. Le joint circulaire mobile se compose de charbon / métal dur. Les pompes ont un degré d'activité élevé et sont libres de maintenance.

Italiano - SPCO – Pompe orizzontali plurigranti HMC – HMN e HM sono capaci di prevalenze fino a 60 m e portate sino a 22 m³/h. Nel tipo HMC la costruzione prevede ACCIAIO INOX 304 (W-Nr. 1.43.01) per le parti essenziali come giranti, albero e camere intermedie, camere di aspirazione e mandata sono in ghisa. Per i tipi HM e HMN anche camere di aspirazione e mandata sono realizzate in ACCIAIO INOX. Tutte sono provviste di tenuta meccanica in carburo di silicio e grafite. Le pompe garantiscono alta efficienza e sono esenti da manutenzione.

Performance range



Applications HM - HMK

- Water supply and pressure boosting.
- Water treatment.
- Air-conditioning.
- Heating and cooling in industrial processes.
- Industrial washing and dish-washing machines.
- Softened water.
- Pressure boosting of process water.
- Fertilizer/ dosing systems.

Pump HM - HMK

A horizontal multistage centrifugal pump is made of stainless steel.
The pump is a non-self priming type and fitted with a mechanical shaft seal.

Operating conditions HM - HMK

Liquid temperature range: 0 °C ~ +110 °C .

Maximum ambient temperature: +50 °C .

Maximum operating pressure: 10 kg/cm².

Maximum inlet pressure is limited by maximum operating pressure.

Pipe connections

Connection	HM(K) 2	HM(K) 4	HM(K) 8	HM(K) 12
Suction Port	Rp 1	Rp 1 ¼	Rp 1 ½	Rp 1 ½
Discharge Port	Rp 1	Rp 1 ¼	Rp 1 ½	Rp 1 ½
Drain hole, Priming Hole	G ¾	G ¾	G ¾	G ¾

Liquids to be pumped

These pumps are designed for pumping freely flowing non-corrosive, non-explosive, and non-flammable liquids. The liquids to be pumped must also be free of solid matter, sands, fibers, and similar materials.

Most common non-highly corrosive watery liquids, oily liquids, hot and cold liquids can be pumped with these pumps.

The suitability of these pumps for pumping any particular liquid depends upon a number of factors, such as the pH value, contents of chemicals such as chlorides, oils, the temperature of the liquids, etc.

Please contact SPCO if there are any questions as to whether certain liquids are suitable for pumping with these pumps.

Applications HMC - HMN

- Domestic.
- Liquid transfer and circulation of liquids within light industry and farming.
- Pressure boosting.
- Air-conditioning systems.
- Cooling systems or cooling machine
- Specialized OEM equipment

Pump HMC - HMN

The HMC and HMN series are non-self priming, horizontal multistage centrifugal pumps. pump is coupled with motor at the same shaft and mounted on a base- plate. The friendly design makes the pump suitable for installation in the small domestic or industrial water supply systems. The pump is fitted with a mechanical seal and through (going pump) motor shaft.

HMC: The discharge and suction chamber are made of cast iron. The other parts of pump in contact with the liquid are made of stainless steel.

HMN: All parts of pump in contact with the liquid are made of stainless steel.
EPDM or viton O-rings are available as standard.

Operating conditions HMC - HMN

Liquid: Clean liquid without solid particles.

Liquid temperature range: 0°C ~ +90°C .

Maximum ambient temperature: +50°C .

The maximum operating pressure depends on the temperature of the pumped liquid.

Max. Operating Pressure	10 kg/cm ²	6 kg/cm ²
HMC(N) 2, HMC(N) 4	0°C to +40°C	+41°C to +90°C
HMC 8 , HMC 12	0°C to +55°C	+56°C to +90°C

Min.inlet pressure: According to the NPSH curve + a safety margin of 0.5m .

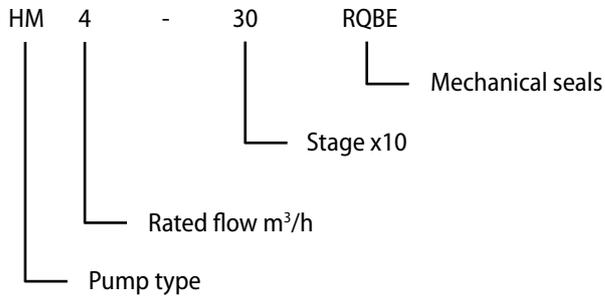
Max. inlet pressure: Limited by the max. operating pressure .

Pipe connections

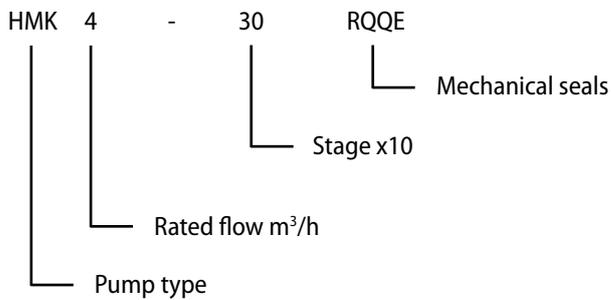
Connection	HMC(N) 2	HMC(N) 4	HMC 8	HMC 12
Suction Port	Rp 1	Rp 1 ¼	Rp 1 ½	Rp 1 ½
Discharge Port	Rp 1	Rp 1	Rp 1 ¼	Rp 1 ½
Drain hole, Priming Hole	Rc ¾	Rc ¾	Rp ½	Rp ½

Definition of Model

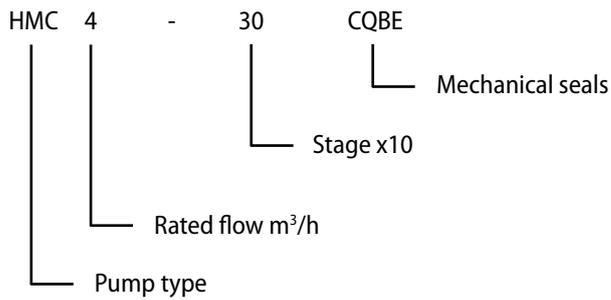
HM Example



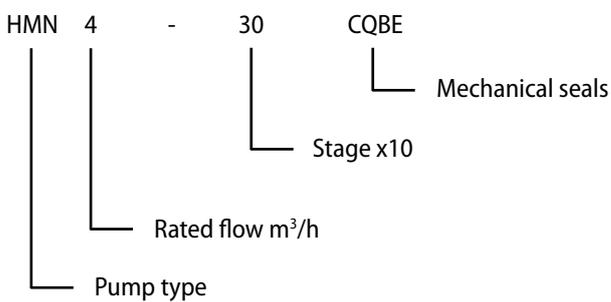
HMK Example



HMC Example



HMN Example



Electric Motor

The pump is fitted with a totally enclosed, fan-cooled, squirrel-cage motor.

Rated speed: 3450 rpm (60Hz)

Enclosure class: IP 54

Insulation class: F

Standard voltage: 1 x 110/220 ~ 240 V, 60Hz

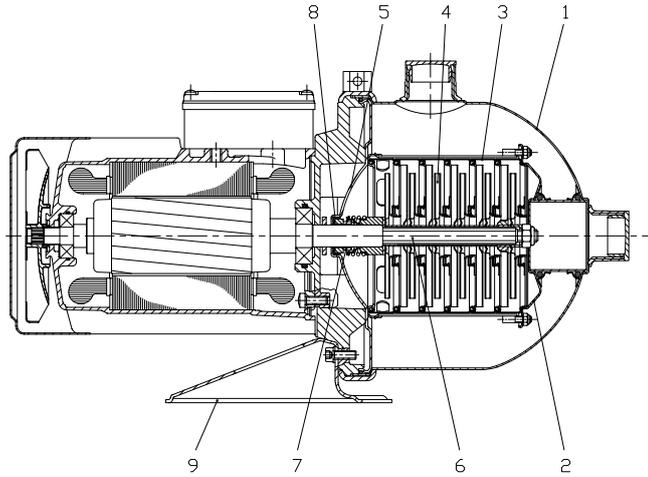
3 x 220 ~ 277 V/380 ~ 480 V, 60Hz

Mechanical seals

Seal Type	HM	HMK	HMC(N) 2,4	HMC 8,12
Mechanical Seals				
RQB	•	Optional	--	--
RQQ	Optional	•	--	--
CQB	--	--	•	•
CQQ	--	--	Optional	Optional
AUU	--	--	Optional	Optional
O-rings				
EPDM	•	•	•	•
Viton	Optional	Optional	Optional	Optional

- Q: Silicon carbide
- U: Tungsten carbide
- B: Carbon
- A: Seal type
- R: Seal type
- C: Seal type

Section drawing HM - HMK



Material HM - HMK

No.	Description	Materials	
		HM	HMK
1	Pump casing	SS304	SS316
2	Suction inter-connector	SS304	SS316
3	Chamber	SS304	SS316
4	Impeller	SS304	SS316
5	Cover plate	SS304	SS316
6	Shaft	SS431	SS316
7	Mechanical seal	Silicon carbide / Carbon	Silicon carbide / Sic
8	O-ring	EPDM or Viton	EPDM or Viton
9	Base plate	Steel	Steel

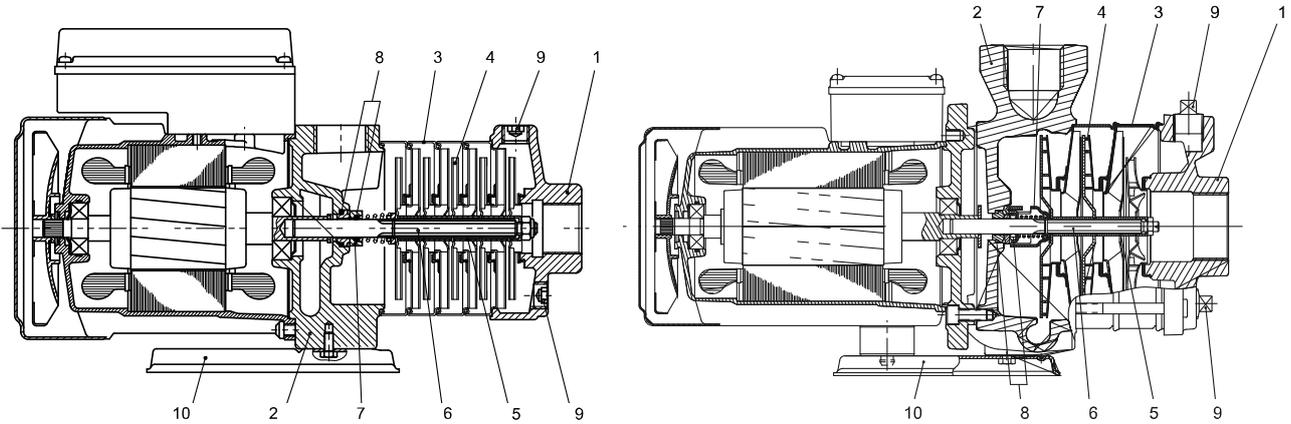
Mechanical seal HM - HMK

List of Materials	
Q : Silicon carbide	E : EPDM
B : Carbon	V : Viton
R : Seal Type	

Mechanical Seals	HM	HMK
RQQ	Optional	•
RQB	•	Optional
O-ring		
E	•	•
V	Optional	Optional

• Standard.

Section drawing HMC - HMN



Material HMC - HMN

No.	Description	Materials	
		HMC	HMN
1	Suction chamber	Cast iron	SS304
2	Pump head	Cast iron	SS304
3	Intermediate chamber	SS304	SS304
4	Impeller	SS304	SS304
5	Spacing pipe	SS304	SS304
6	Shaft	SS431	SS431
7	Mechanical seal	Silicon carbide / Carbon	Silicon carbide / Carbon
8	O-ring	EPDM or Viton	EPDM or Viton
9	Drain and priming plug	Steel	SS304
10	Base plate	Steel	SS304

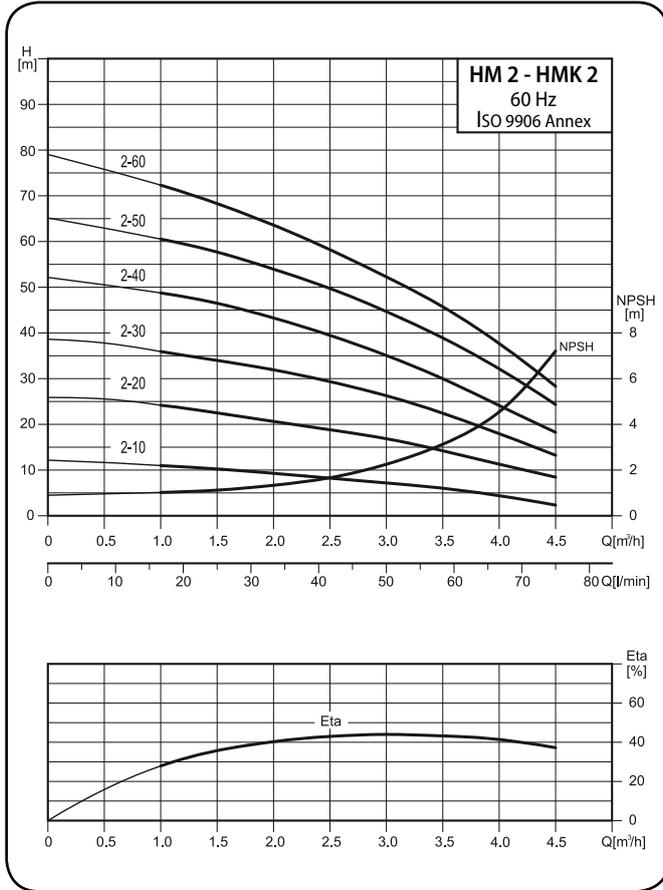
Mechanical seal HMC - HMN

List of Materials	
Q : Silicon carbide	E : EPDM
U : Tungsten carbide	V : Viton
B : Carbon	C : Seal Type
A : Seal Type	

Mechanical Seals	HMC(N) 2, 4	HMC 8, 12
CQB	•	•
CQQ	Optional	Optional
AUU	Optional	Optional
O-ring		
E	•	•
V	Optional	Optional

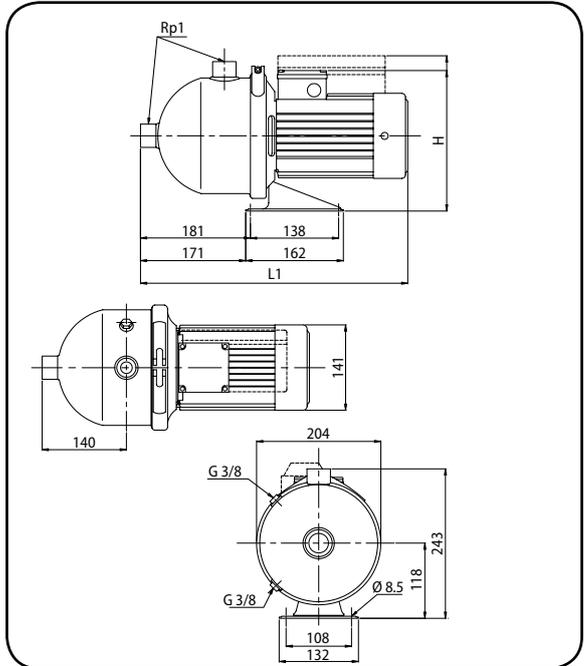
• Standard.

Performance curves



HM 2 - HMK 2

Installation sketch



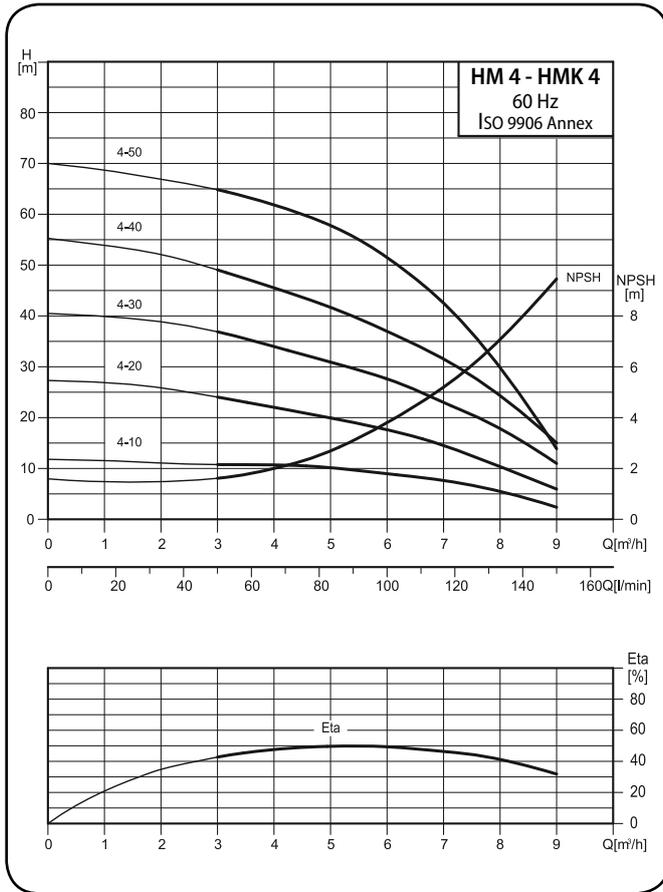
Dimensions and weights

Model	Dimension [mm]				Weight [kg]
	1-Phase		3-Phase		
	L1	H	L1	H	
HM 2-10 / HMK 2-10	403	255	403	233	9.5
HM 2-20 / HMK 2-20	403	255	403	233	9.5
HM 2-30 / HMK 2-30	403	255	403	233	9.8
HM 2-40 / HMK 2-40	403	255	403	233	10.3
HM 2-50 / HMK 2-50	441	255	441	233	11.7
HM 2-60 / HMK 2-60	441	255	441	233	12.0

Electrical data, 3450 min⁻¹

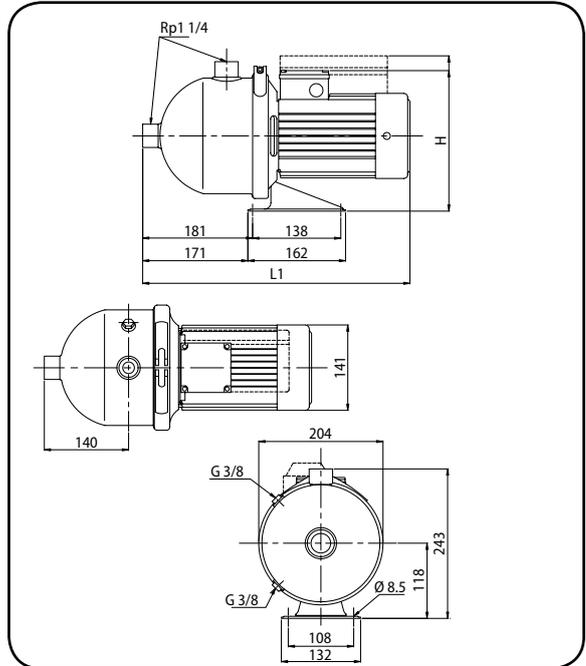
Pump type	1Φ 110 / 220V			3Φ Δ220-255 / Y 380-440 V		
	I1/I [A]	P1 [W]	P2 [W]	I1/I [A]	P1 [W]	P2 [W]
HM/HMK 2-10	5.9 / 3.0	390	310	1.5 - 1.6 / 0.9 - 1.0	360	290
HM/HMK 2-20	6.6 / 3.4	570	455	1.7 - 1.8 / 1.0 - 1.1	540	435
HM/HMK 2-30	7.6 / 3.8	750	605	2.2 - 2.3 / 1.3 - 1.4	720	580
HM/HMK 2-40	9.3 / 4.7	980	790	3.0 - 3.2 / 1.75 - 1.9	950	770
HM/HMK 2-50	10.7 / 5.4	1160	970	3.8 - 3.9 / 2.2 - 2.3	1170	980
HM/HMK 2-60	12.4 / 6.3	1375	1150	4.1 - 4.2 / 2.35 - 2.45	1330	1115

Performance curves



HM 4 - HMK 4

Installation sketch



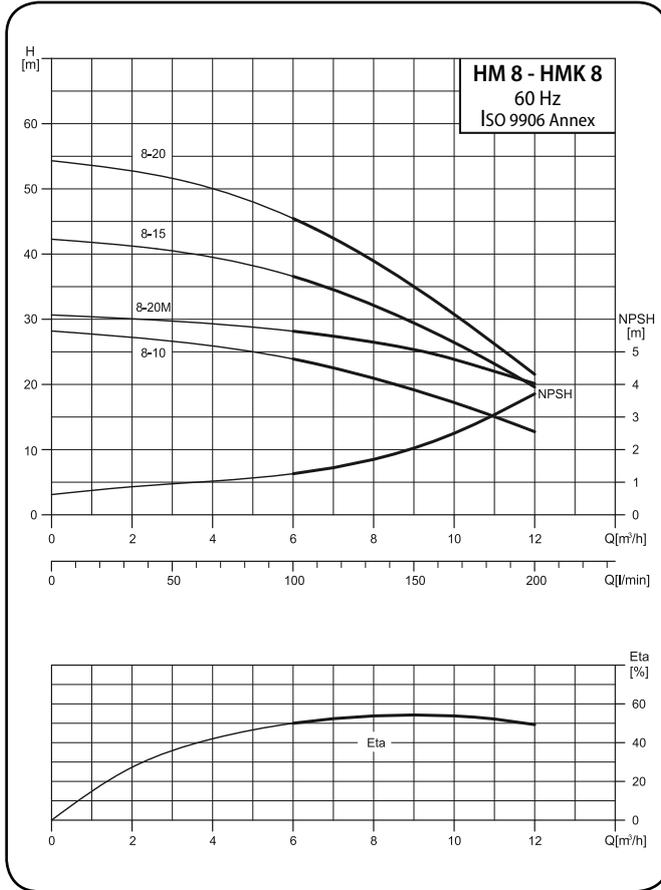
Dimensions and weights

Model	Dimension [mm]				Weight [kg]
	1-Phase		3-Phase		
	L1	H	L1	H	
HM 4-10 / HMK 4-10	403	255	403	233	9.5
HM 4-20 / HMK 4-20	403	255	403	233	9.5
HM 4-30 / HMK 4-30	403	255	403	233	10.1
HM 4-40 / HMK 4-40	441	255	441	233	11.5
HM 4-50 / HMK 4-50	441	255	441	233	12.8

Electrical data, 3450 min⁻¹

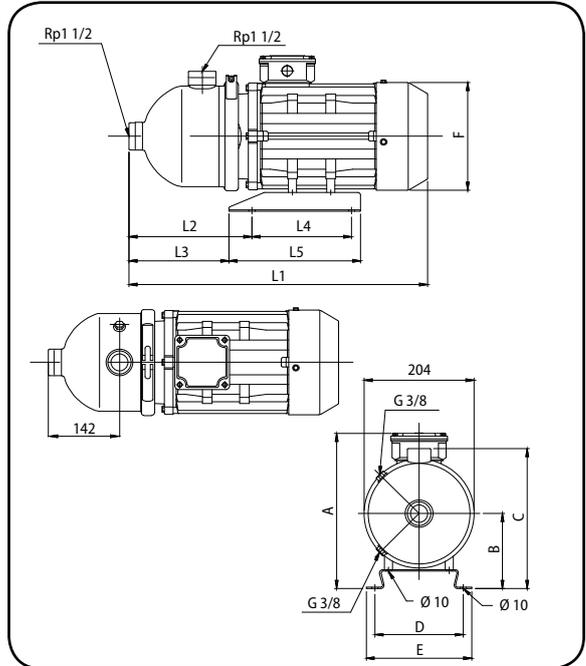
Pump type	1Φ 110 / 220V			3Φ Δ220-255 / Y 380-440 V		
	I 1/1 [A]	P 1 [W]	P 2 [W]	I 1/1 [A]	P 1 [W]	P 2 [W]
HM/HMK 4-10	5.9 / 3.1	530	425	1.8 - 1.9 / 1.1 - 1.2	560	450
HM/HMK 4-20	9.3 / 4.7	970	780	2.9 - 3.1 / 1.7 - 1.8	910	740
HM/HMK 4-30	12.5 / 6.5	1360	1140	4.1 - 4.2 / 2.4 - 2.5	1280	1080
HM/HMK 4-40	— / 8.5	1730	1380	4.7 - 4.8 / 2.7 - 2.8	1675	1340
HM/HMK 4-50	— / 9.9	2080	1660	5.7 - 6.0 / 3.3 - 3.5	1995	1595

Performance curves



HM 8 - HMK 8

Installation sketch



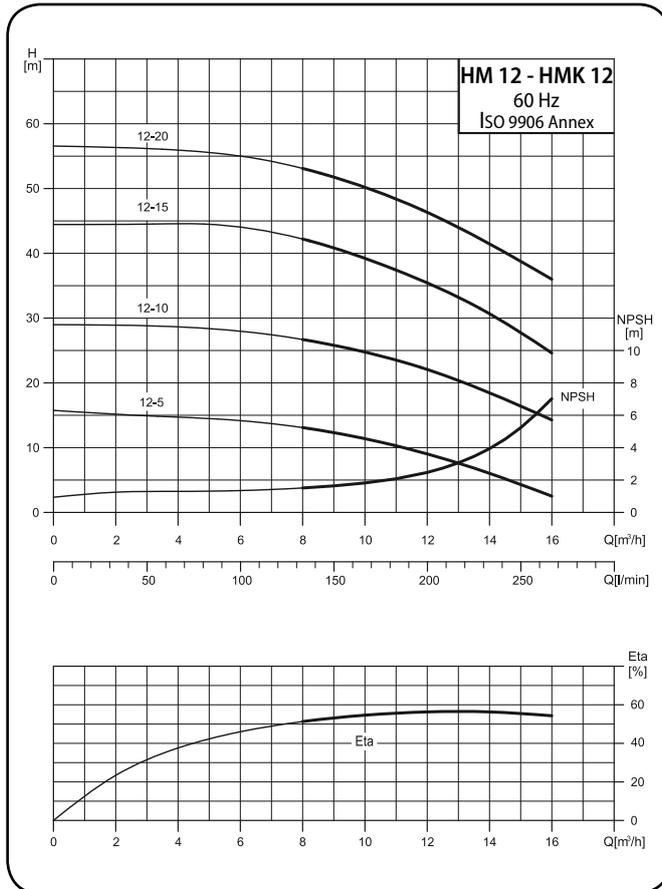
Dimensions and weights

Model	Motor Phase	Dimension [mm]											Weight [kg]
		L1	L2	L3	L4	L5	A	B	C	D	E	F	
HM 8-10 / HMK 8-10	1	441	181	171	138	162	255	118	243	108	132	141	11.70
	3	441	181	171	138	162	233						11.50
HM 8-15 / HMK 8-15	1	514	200	180	195	235	267	121	245	158	178	177	21.42
	3	441	181	171	138	162	233	118	243	108	132	141	13.18
HM 8-20M / HMK 8-20M	1	441	181	171	138	162	255	118	243	108	132	141	13.24
	3	441	181	171	138	162	233						13.05
HM 8-20 / HMK 8-20	1	514	200	180	195	235	267	121	245	158	178	177	21.50
	3	514					261						21.60

Electrical data, 3450 min⁻¹

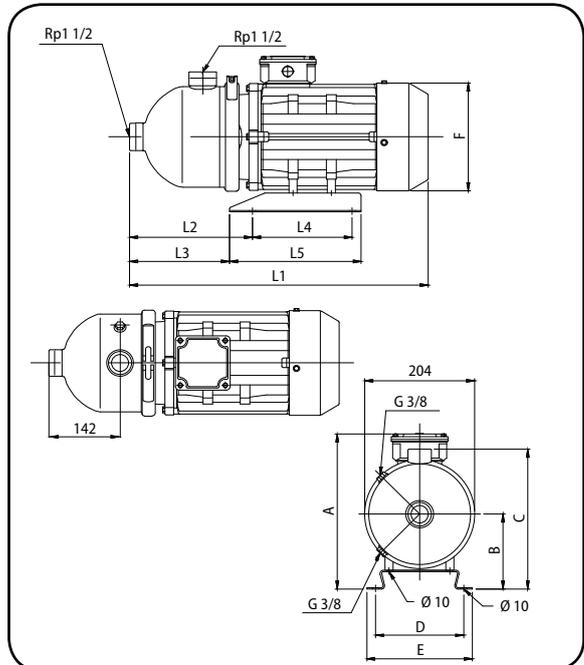
Pump type	1Φ 110 / 220V			3Φ Δ220-255 / Y 380-440 V		
	I1/I [A]	P1 [W]	P2 [W]	I1/I [A]	P1 [W]	P2 [W]
HM/HMK 8-10	11.4 / 6.0	1280	1070	3.9 - 4.1 / 2.3 - 2.4	1210	1010
HM/HMK 8-20M	— / 8.3	1730	1380	5.2 - 5.3 / 3.0 - 3.1	1670	1340
HM/HMK 8-15	— / 9.3	2080	1710	5.6 - 5.7 / 3.2 - 3.3	1890	1560
HM/HMK 8-20	— / 10.9	2460	2030	3Φ Δ220-277V / Y 380-480V		
				7.1 - 6.9 / 4.1 - 4.0	2360	1950

Performance curves



HM 12 - HMK 12

Installation sketch



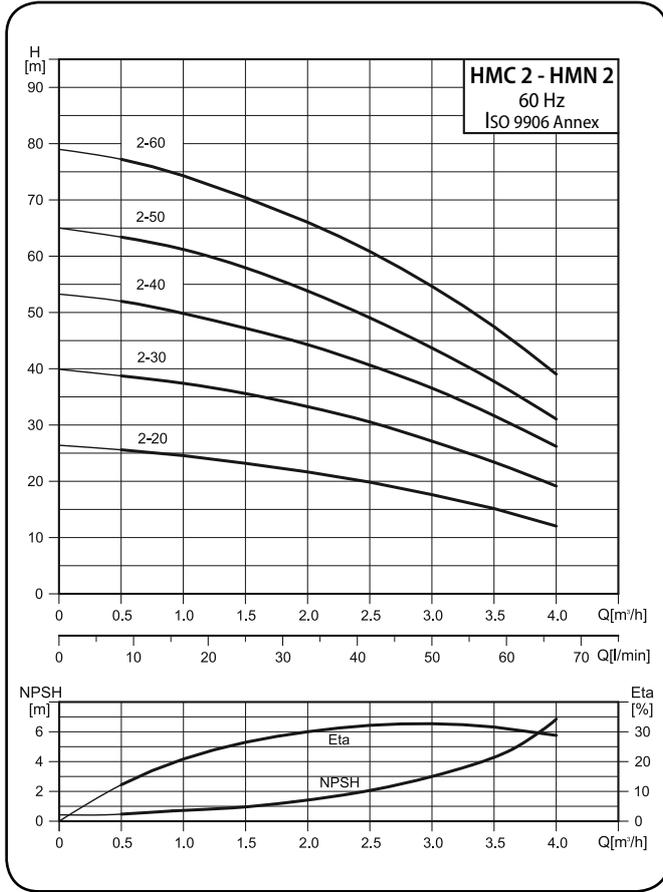
Dimensions and weights

Model	Motor Phase	Dimension [mm]											Weight [kg]
		L1	L2	L3	L4	L5	A	B	C	D	E	F	
HM 12-05 / HMK 12-05	1	403	181	171	138	162	255	118	243	108	132	141	10.26
	3						233						
HM 12-10 / HMK 12-10	1	514	200	180	195	235	267	121	245	158	178	177	20.64
	3	441	181	171	138	162	233	118	243	108	132	141	12.64
HM 12-15 / HMK 12-15	3	493	200	180	195	235	261	121	245	158	178	177	23.72
HM 12-20 / HMK 12-20	3	514	230	198	195	245	284	133	259	174	198	197	29.40

Electrical data, 3450 min⁻¹

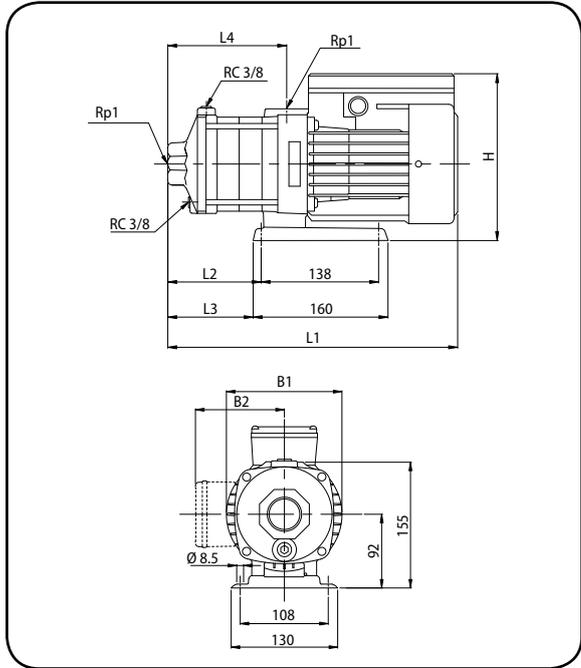
Pump type	1Φ 110 / 220V			3Φ Δ220-255 / Y 380-440 V		
	I 1/1 [A]	P 1 [W]	P 2 [W]	I 1/1 [A]	P 1 [W]	P 2 [W]
HM/HMK 12-05	8.5 / 4.5	940	760	2.8 - 3.0 / 1.6 - 1.75	850	690
HM/HMK 12-10	— / 9.7	2170	1790	5.7 - 5.9 / 3.3 - 3.4	1930	1595
				3Φ Δ220-277V / Y 380-480V		
HM/HMK 12-15	—	—	—	9.2 - 8.9 / 5.3 - 5.1	2860	2365
HM/HMK 12-20	—	—	—	11.2 - 11.8 / 6.5 - 6.8	3950	3370

Performance curves



HMC 2 - HMN 2

Installation sketch



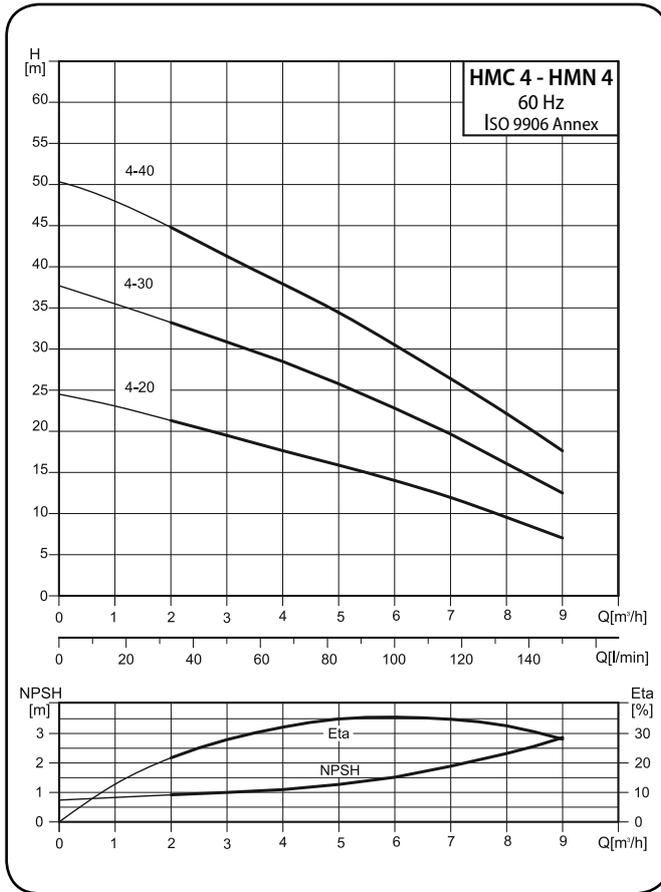
Dimensions and weights

Model	Dimension [mm]								Weight [kg]		
	L1	L2	L3	L4	B1	B2		H		1-phase	3-phase
						1-phase	3-phase	1-phase	3-phase		
HMC 2-20 / HMN 2-20	309	75	63	101	141	127	115	228	207	10.3 / 9.1	10.0 / 8.8
HMC 2-30 / HMN 2-30	327	93	81	119	141	127	115	228	207	11.1 / 10.0	10.8 / 9.6
HMC 2-40 / HMN 2-40	345	111	99	137	141	127	115	228	207	11.3 / 10.2	11.1 / 10.0
HMC 2-50 / HMN 2-50	403	129	117	155	141	127	115	228	207	13.0 / 11.8	12.4 / 11.5
HMC 2-60 / HMN 2-60	421	147	135	173	141	127	115	228	207	13.2 / 12.1	12.7 / 11.7

Electrical data, 3450 min⁻¹

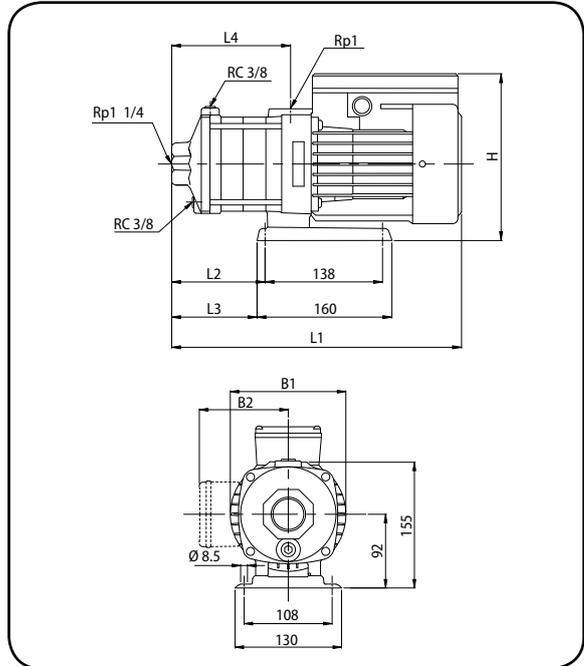
Pump type	1Φ 110 / 220V			3Φ Δ220-255 / Y 380-440 V		
	I 1/1 [A]	P 1 [W]	P 2 [W]	I 1/1 [A]	P 1 [W]	P 2 [W]
HMC/HMN 2-20	6.3 / 3.2	570	460	1.8 - 1.9 / 1.0 - 1.1	550	430
HMC/HMN 2-30	7.9 / 4.1	780	630	3.5 - 3.3 / 2.0 - 1.9	680	540
HMC/HMN 2-40	8.8 / 4.4	870	710	3.1 - 3.2 / 1.8 - 1.9	950	725
HMC/HMN 2-50	11.7 / 5.9	1190	995	3.7 - 3.8 / 2.1 - 2.2	1160	940
HMC/HMN 2-60	13.7 / 6.9	1410	1180	3.7 - 3.8 / 6.4 - 6.6	1280	1060

Performance curves



HMC 4 - HMN 4

Installation sketch



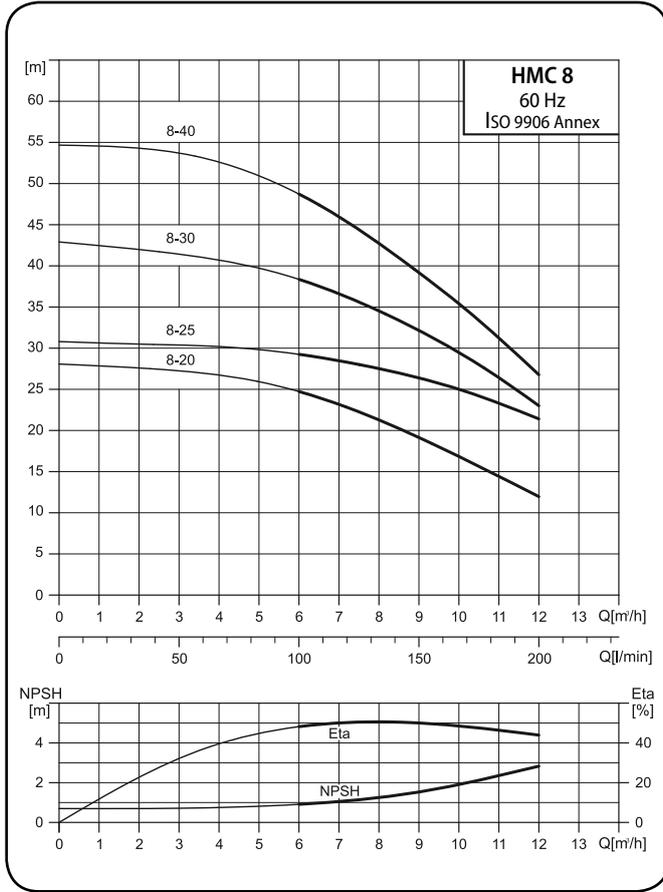
Dimensions and weights

Model	Dimension [mm]									Weight [kg]	
	L1	L2	L3	L4	B1	B2		H		1-phase	3-phase
						1-phase	3-phase	1-phase	3-phase		
HMC 4-20 / HMN 4-20	318	84	72	110	141	127	115	228	207	12.2 / 9.8	10.7 / 9.5
HMC 4-30 / HMN 4-30	384	111	99	137	141	127	115	228	207	12.7 / 11.5	12.3 / 11.1
HMC 4-40 / HMN 4-40	412	138	126	164	141	127	115	228	207	14.0 / 12.8	13.7 / 12.6

Electrical data, 3450 min⁻¹

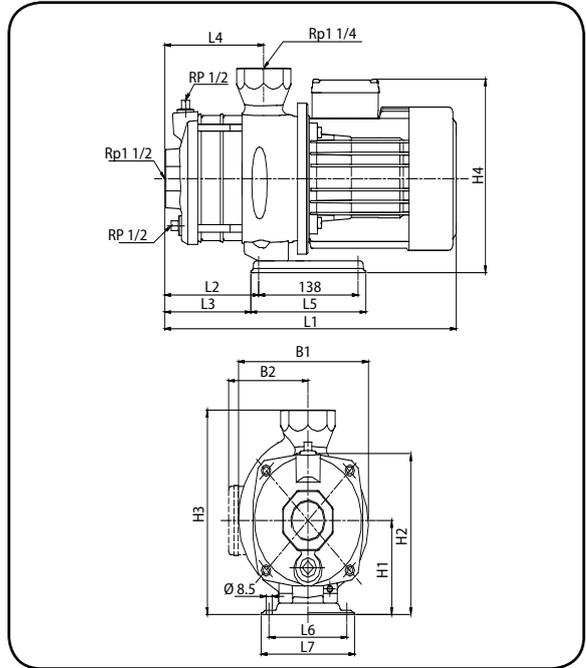
Pump type	1Φ 110 / 220V			3Φ Δ220-255 / Y 380-440 V		
	I1/I [A]	P1 [W]	P2 [W]	I1/I [A]	P1 [W]	P2 [W]
HMC/HMN 4-20	9.5 / 4.7	950	770	2.85 - 3.0 / 1.65 - 1.8	890	720
HMC/HMN 4-30	12.5 / 6.2	1310	1100	3.9 - 4.0 / 2.3 - 2.4	1250	1050
HMC/HMN 4-40	— / 8.3	1700	1360	5.1 - 5.3 / 2.9 - 3.1	1630	1310

Performance curves



HMC 8

Installation sketch



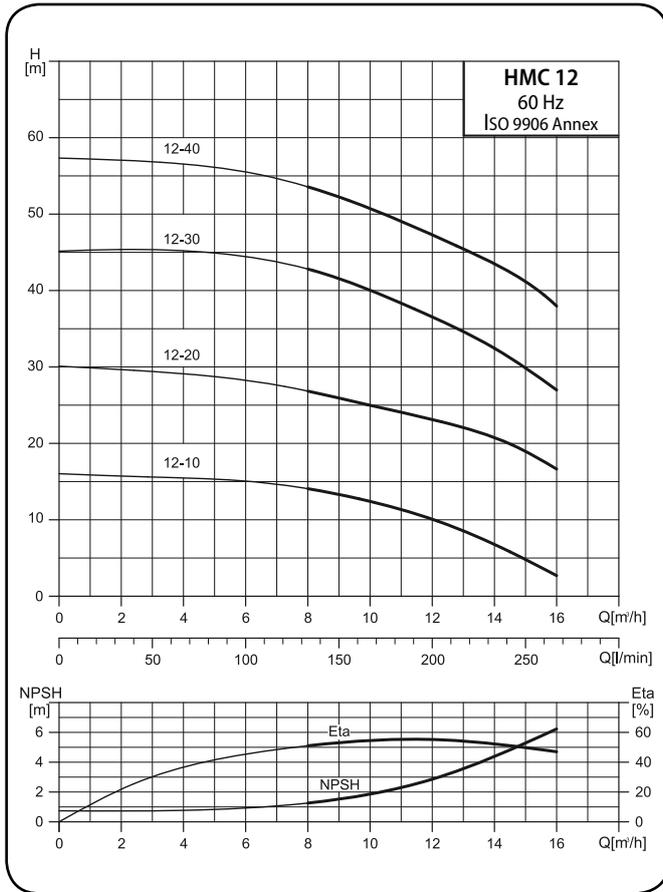
Dimensions and weights

Model	Dimension [mm]																Weight [kg]		
	L1		L2	L3	L4	L5	L6	L7	B1		B2		H1	H2	H3	H4		1Ø	3Ø
	1Ø	3Ø							1Ø	3Ø	1Ø	3Ø				1Ø	3Ø		
HMC 8-20	360	360	54	41	77	160	108	130	181	181	135	114	110	187	239	245	224	18.60	18.35
HMC 8-25	--	390	84	71	107	160	108	130	--	181	--	114	110	187	239	--	224	--	20.30
HMC 8-30	450	390	132	81	107	240	126	160	185	181	152	114	110	187	239	262	224	26.60	20.40
HMC 8-40	450	450	132	81	107	240	126	160	185	185	152	114	110	187	239	262	229	26.80	26.80

Electrical data, 3450 min⁻¹

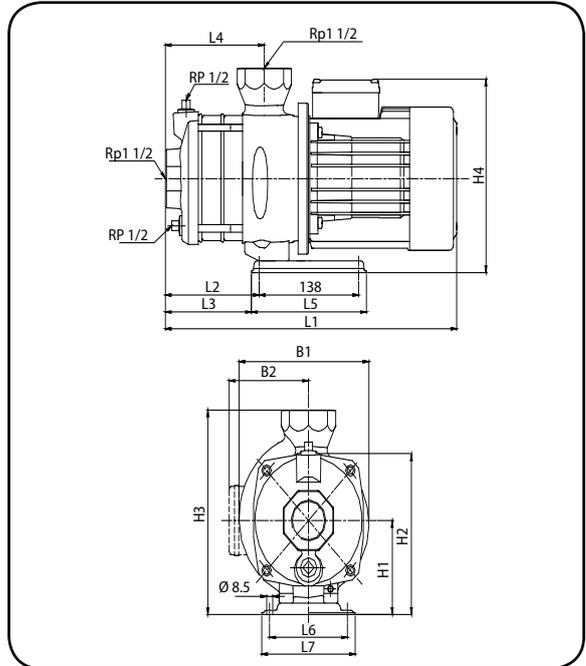
Pump type	1Ø 110 / 220V			3Ø Δ220-255 / Y 380-440 V		
	I1/I [A]	P 1 [W]	P 2 [W]	I1/I [A]	P 1 [W]	P 2 [W]
HMC 8-20	11.7 / 5.9	1250	1050	3.7 - 3.8 / 2.2 - 2.3	1220	1020
HMC 8-25	--	--	--	4.8 - 5.0 / 2.8 - 2.9	1620	1295
HMC 8-30	-- / 8.9	1830	1510	5.7 - 5.5 / 3.3 - 3.2	1860	1490
HMC 8-40	-- / 10.4	2080	1720	3Ø Δ220-277V / Y 380-480V		
				6.4 - 5.9 / 3.7 - 3.4	2340	1930

Performance curves



HMC 12

Installation sketch



Dimensions and weights

Model	Dimension [mm]														Weight [kg]				
	L1		L2	L3	L4	L5	L6	L7	B1		B2		H1	H2	H3	H4		1Ø	3Ø
	1Ø	3Ø							1Ø	3Ø	1Ø	3Ø				1Ø	3Ø		
HMC 12-10	--	360	54	41	77	160	108	130	--	181	--	114	110	187	239	--	224	--	16.20
HMC 12-20	420	360	54	41	77	160	108	130	185	181	152	114	110	187	239	262	224	25.80	19.10
HMC 12-30	--	450	132	81	107	240	126	160	--	185	--	139	110	187	239	--	249	--	28.90
HMC 12-40	--	471	132	81	107	240	126	160	--	196	--	150	122	199	251	--	272	--	34.20

Electrical data, 3450 min⁻¹

Pump type	1Ø 110 / 220V			3Ø Δ220-255 / Y 380-440 V		
	I1/1 [A]	P1 [W]	P2 [W]	I1/1 [A]	P1 [W]	P2 [W]
HMC 12-10	—	—	—	3.5 - 3.7 / 2.0 - 2.1	910	765
HMC 12-20	— / 9.4	2120	1750	6.0 - 5.9 / 3.5 - 3.4	1960	1570
				3Ø Δ220-277V / Y 380-480V		
HMC 12-30	—	—	—	8.8 - 10.2 / 5.1 - 5.9	2940	2430
HMC 12-40	—	—	—	11.2 - 11.3 / 6.5 - 6.6	3810	3250





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