

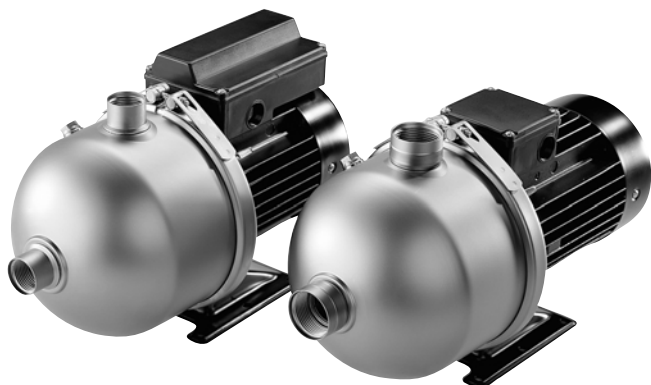
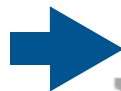
GRUNDFOS CONVERSION GUIDE

CH → CM-A

CHN → CM-I

CHI → CM-G / CM-I

Conversion of CH-pump types to CM-pump types
50 / 60 Hz



Contents

Introduction

Recommended selection of pump material version	3
Selection of shaft seal	3
How to use the conversion guide	4

Performance curves

CH 2, CHN 2 to CM 1	5
CHI 2 to CM 1	6

Technical data

CM 1-A	7
CM 1-I and CM 1-G	8

Performance curves

CH 2, CHN 2 to CM 3	9
CHI 2 to CM 3	10
CH 4, CHN 4 to CM 3	11
CHI 4 to CM 3	12

Technical data

CM 3-A	13
CM 3-I and CM 3-G	14

Performance curves

CH 4, CHN 4 to CM 5	15
CHI 4 to CM 5	16

Technical data

CM 5-A	17
CM 5-I and CM 5-G	18

Performance curves

CH 8, CHN 8 to CM 10	19
CHI 8 to CM 10	20
CH 12, CHN 12 to CM 10	21
CHI 12 to CM 10	22

Performance curves

CH 12, CHN 12 to CM 15	23
CHI 12 to CM 15	24
CHI 15 to CM 15	25

Performance curves

CHI 20 to CM 25	27
-----------------	----

Performance curves

CH 2, CHN 2 to CM 1	28
CHI 2 to CM 1	29

Technical data

CM 1-A	30
CM 1-I and CM 1-G	31

Performance curves

CH 2, CHN 2 to CM 3	32
CHI 4 to CM 3	33

Technical data

CM 3-A	34
CM 3-I and CM 3-G	35

Performance curves

CH 4, CHN 4 to CM 5	36
CHI 4 to CM 5	37

Technical data

CM 5-A	38
CM 5-I and CM 5-G	39

Performance curves

CH 8, CHN 8 to CM 10	41
CHI 8 to CM 10	42
CH 12, CHN 12 to CM 10	43

Performance curves

CH 12, CHN 12 to CM 15	45
CHI 12 to CM 15	46
CHI 15 to CM 15	47

Performance curves

CHI 20 to CM 25	49
-----------------	----

Introduction

Use this conversion guide to find the right CM pump type when a CH, CHN or CHI pump is to be replaced.

Recommended selection of pump material version

Three material versions of the CM pump are available, see the table below:

Pump designation	Material	DIN W.-Nr.	AISI
CM-A	Cast iron	-	-
CM-I	Stainless steel	EN 1.4301	AISI 304
CM-G	Stainless steel	EN 1.4401	AISI 316L

The table below contains a recommendation of which CM pump type that can replace an existing CH, CHN or CHI pump.

CH-pump type	CM-pump type
CH	CM-A
CHN	CM-I
CHI	CM-G or CM-I

Selection of shaft seal

The table below contains the available shaft seal types for CH- and CM-pump types. In then table it is possible to see a recommended selection of shaft seal when replacing an existing CH, CHN or CHI pump with a CM-A, CM-I or CM-G pump.

Shaft seal for CH, CHN, CHI	Shaft seal for CM-A, CM-I, CM-G
AQQE	AQQE
AQQV	AQQV
BQQE	AQQE
BQQV	AQQV
CVBE	AVBE
CVBV	AVBV
BUBE	AVBE
BUBV	AVBV
AUUE	AQQE
AUUV	AQQV
BUUE	AQQE
BUUV	AQQV
RUUE	AQQE
RUUV	AQQV

Introduction

How to use the conversion guide

Example 1

Existing pump: CH 4-30 with a rated flow of 4 m³/h.

Select the right CM 5 pump as follows:

See fig. 1.

1. Find and mark the duty point of the CH 4-30 pump, i.e. point A.
2. Find the CM 5 pump(s) matching the duty point of the CH 4-30 pump.

Result

- If a lower head is acceptable, choose a CM 5-2 pump, i.e. duty point B.
- If a higher head is acceptable, choose a CM 5-3 pump, i.e. duty point C.

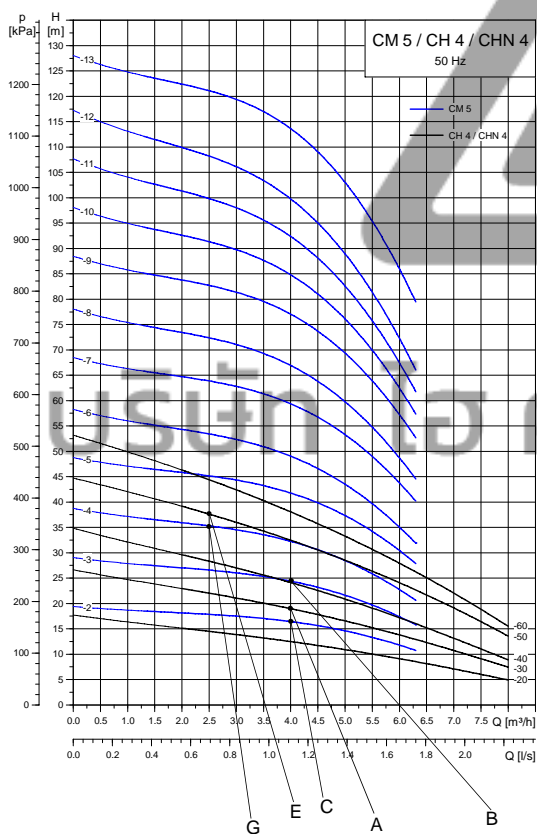


Fig. 1 CM 5 compared to CH 4 and CHN 4

Example 2

Existing pump: CH 4-50 with a rated flow of 2.5 m³/h.

Select the right CM 3 or CM 5 pump as follows:

See figs 1 and 2.

1. Find and mark the duty point of the CH 4-50 pump, i.e. duty point D in fig. 2 and E in fig. 1.
2. Find the CM 3 or/and CM 5 pump(s) matching the duty point of the CH 4-50 pump.

Result

- A CM 3-5 pump is an almost exact match, i.e. duty point F.
- If a lower head is acceptable, choose a CM 5-4 pump, i.e. duty point G.

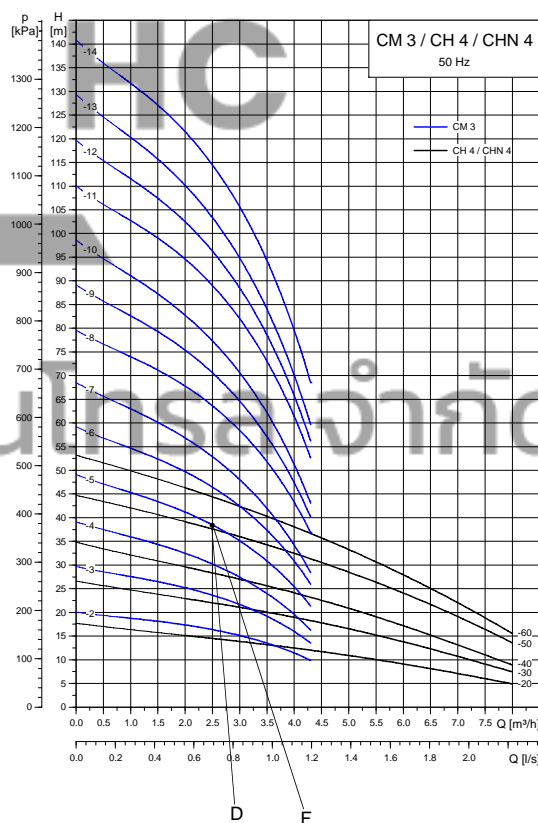
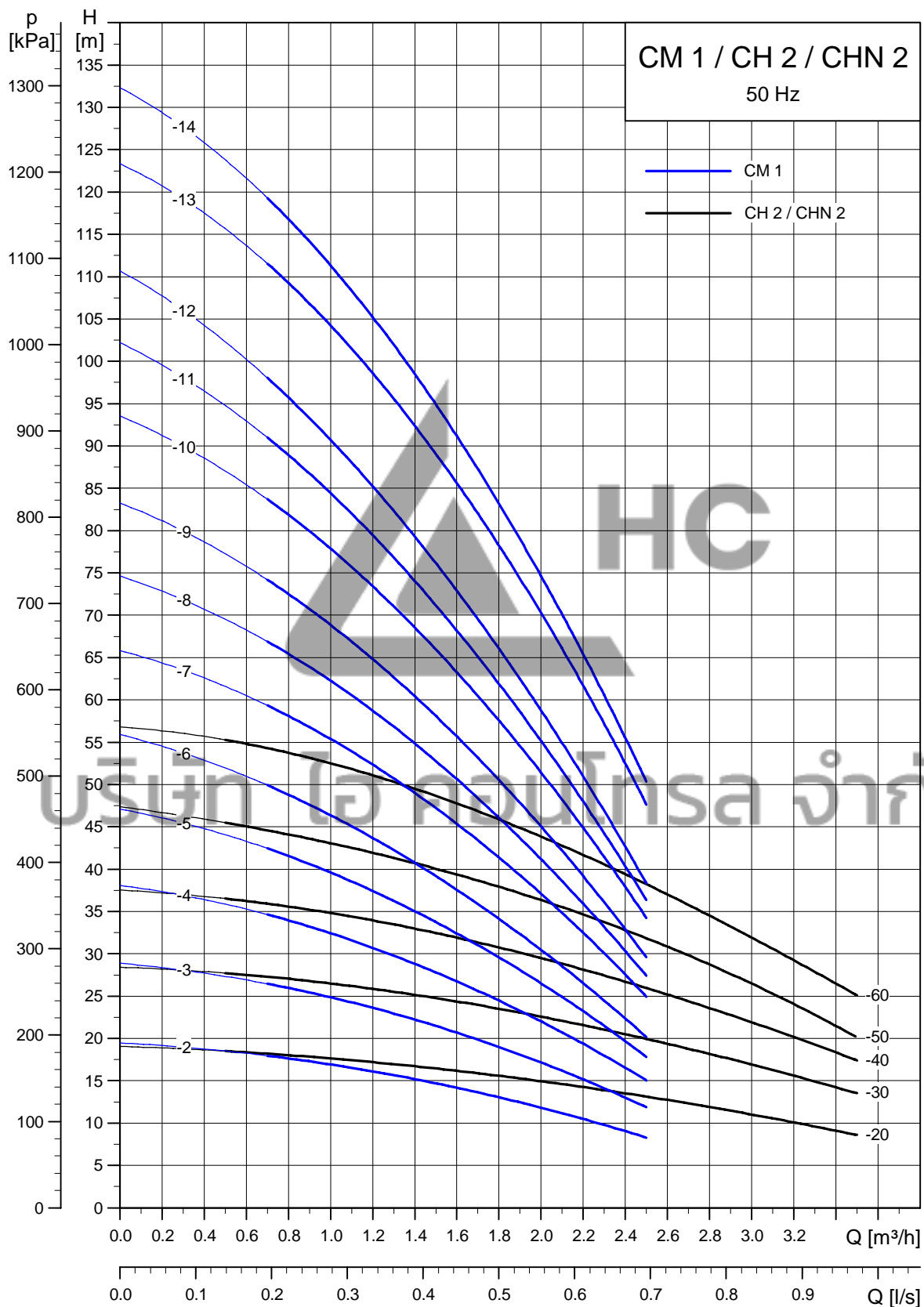


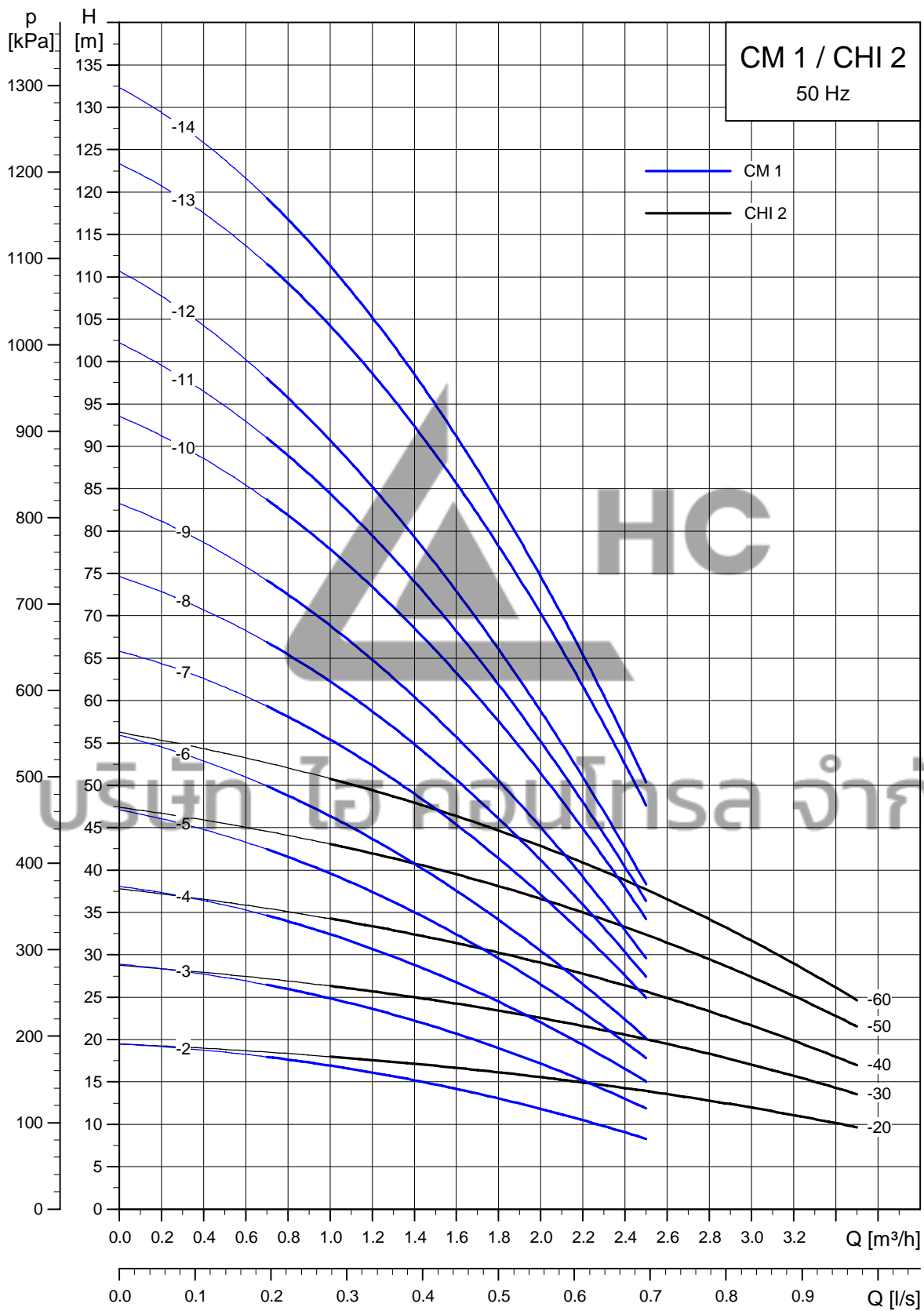
Fig. 2 CM 3 compared to CH 4 and CHN 4

CH 2, CHN 2 to CM 1



TM04 2187 2208

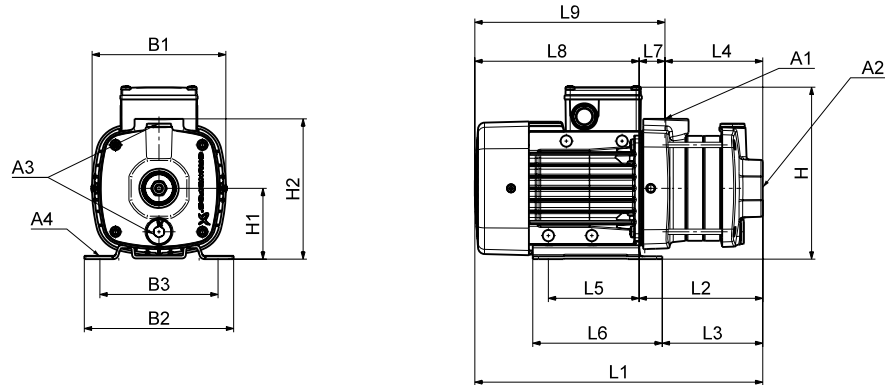
CHI 2 to CM 1



TM04 2192 2208

CM 1-A

(A=cast iron)



TM04 2248 2208

Dimensions

3x220-240 V / 380-415 V, 50 Hz

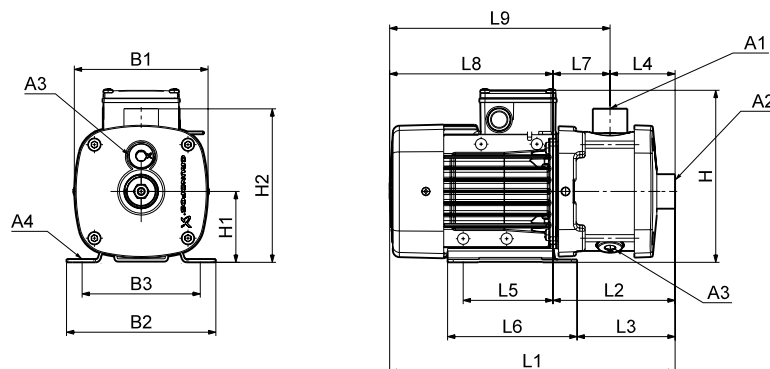
Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 1-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 1-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 1-4	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	323	149	124.5	121.5	96	137	27.5	174	201.5
CM 1-5	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	341	167	142.5	139.5	96	137	27.5	174	201.5
CM 1-6	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	359	185	160.5	157.5	96	137	27.5	174	201.5
CM 1-7	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	377	203	178.5	175.5	96	137	27.5	174	201.5
CM 1-8	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	395	221	196.5	193.5	96	137	27.5	174	201.5

1x220-240 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 1-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 1-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 1-4	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	323	149	124.5	121.5	96	137	27.5	174	201.5
CM 1-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	341	167	142.5	139.5	96	137	27.5	174	201.5
CM 1-6	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	359	185	160.5	157.5	96	137	27.5	174	201.5
CM 1-7	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	377	203	178.5	175.5	96	137	27.5	174	201.5
CM 1-8	MG80A	1"	1"	3/8"	10.2	141.5	158	125	208	75	148.5	435	221	196.5	193.5	96	137	27.5	214	241.5

CM 1-I and CM 1-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316L)



TM04 2246 2208

Dimensions

3x220-240 V / 380-415 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 1-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 1-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 1-4	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	324	150	125.5	89.5	96	137	60.5	174	234.5
CM 1-5	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	342	168	143.5	107.5	96	137	60.5	174	234.5
CM 1-6	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	378	204	179.5	143.5	96	137	60.5	174	234.5
CM 1-7	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	378	204	179.5	143.5	96	137	60.5	174	234.5
CM 1-8	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	414	240	215.5	179.5	96	137	60.5	174	234.5
CM 1-9*	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	414	240	215.5	179.5	96	137	60.5	174	234.5
CM 1-10*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	490	276	251.5	215.5	96	137	60.5	214	274.5
CM 1-11*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	490	276	251.5	215.5	96	137	60.5	214	274.5
CM 1-12*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	544	330	305.5	269.5	96	137	60.5	214	274.5
CM 1-13*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	544	330	305.5	269.5	96	137	60.5	214	274.5
CM 1-14*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165.3	544	330	305.5	269.5	96	137	60.5	214	274.5

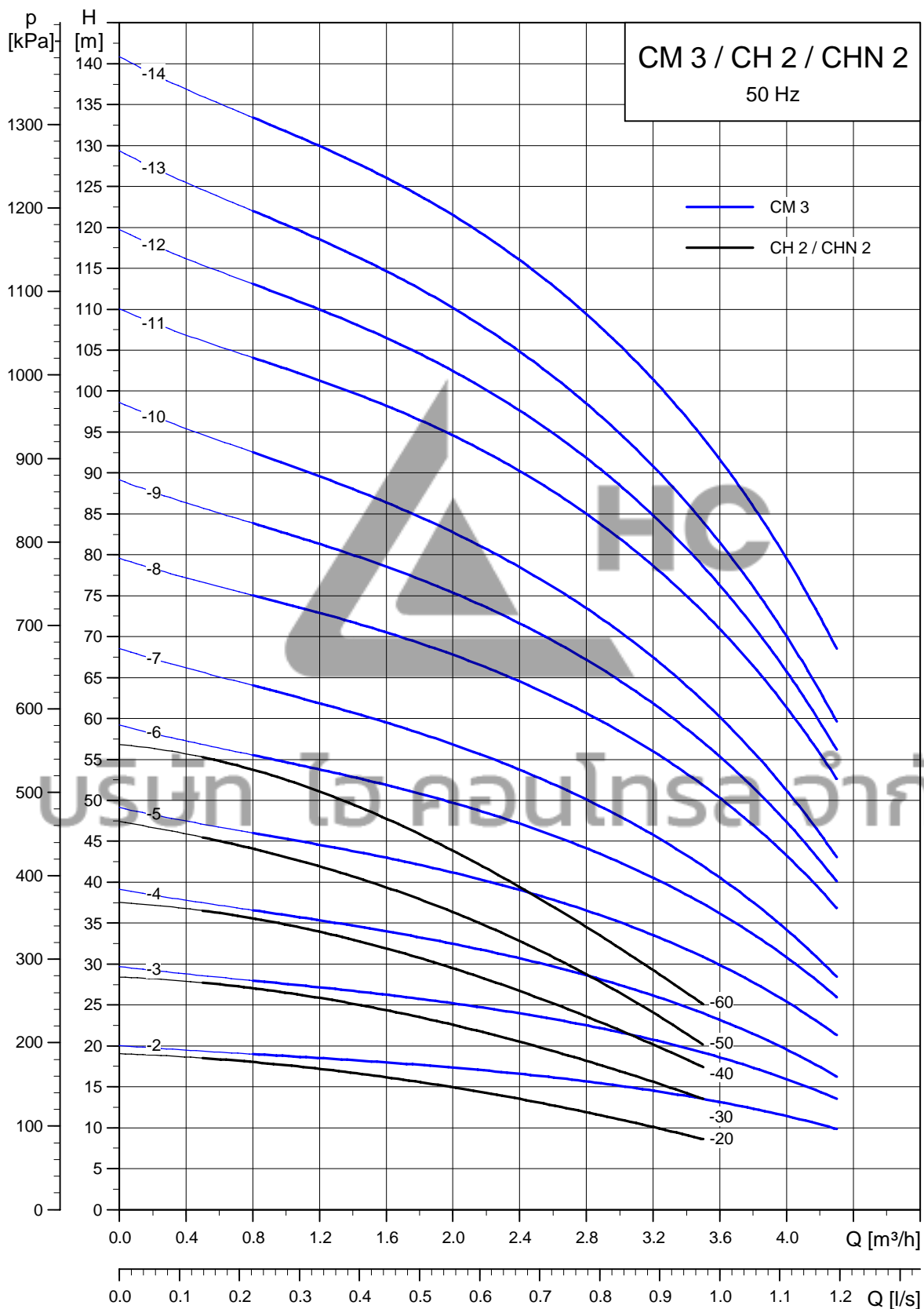
* Only CM-G versions are available with this number of stages.

1x220-240 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 1-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 1-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 1-4	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	324	150	125.5	89.5	96	137	60.5	174	234.5
CM 1-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	342	168	143.5	107.5	96	137	60.5	174	234.5
CM 1-6	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	378	204	179.5	143.5	96	137	60.5	174	234.5
CM 1-7	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	378	204	179.5	143.5	96	137	60.5	174	234.5
CM 1-8	MG80A	1"	1"	3/8"	10.2	141.5	158	125	208	75	165.3	454	240	215.5	179.5	96	137	60.5	214	274.5
CM 1-9*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	208	75	165.3	454	240	215.5	179.5	96	137	60.5	214	274.5
CM 1-10*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	208	75	165.3	490	276	251.5	215.5	96	137	60.5	214	274.5
CM 1-11*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	165.3	490	276	251.5	215.5	96	137	60.5	214	274.5
CM 1-12*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	165.3	544	330	305.5	269.5	96	137	60.5	214	274.5
CM 1-13*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	165.3	544	330	305.5	269.5	96	137	60.5	214	274.5
CM 1-14*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180.3	592	368	353	269.5	125	155	98.5	224	322.5

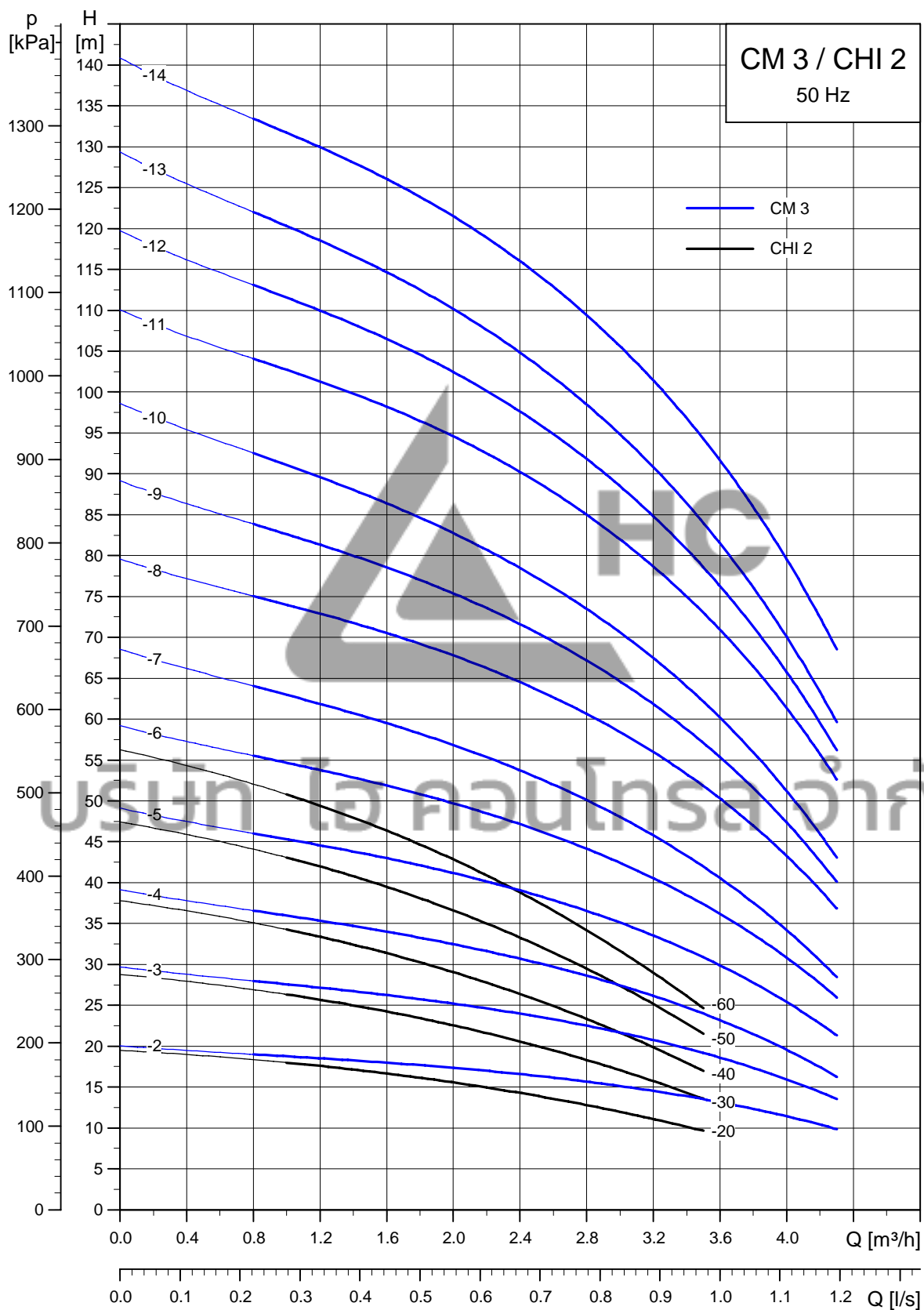
* Only CM-G versions are available with this number of stages.

CH 2, CHN 2 to CM 3



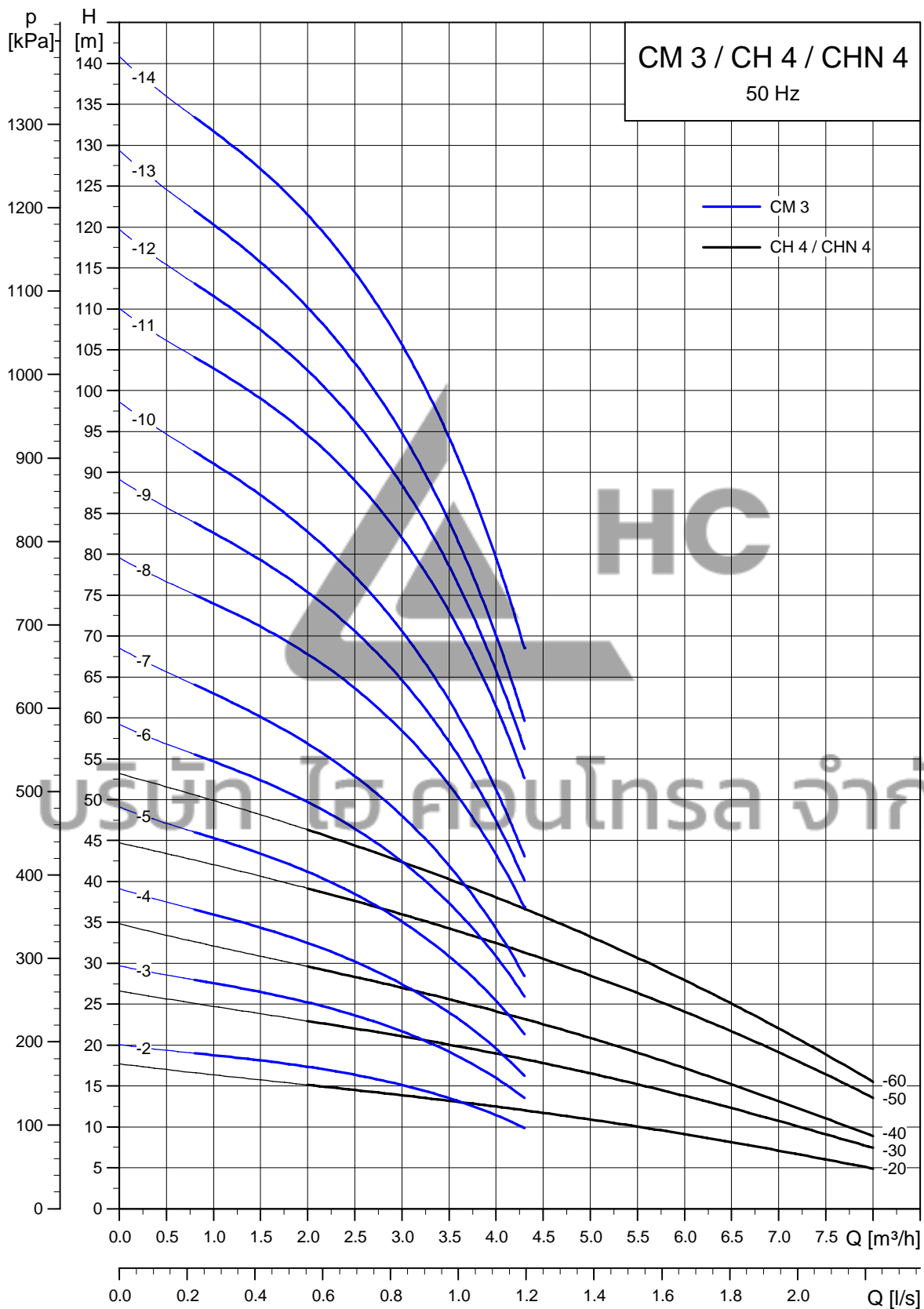
TM04 2189 2208

CHI 2 to CM 3



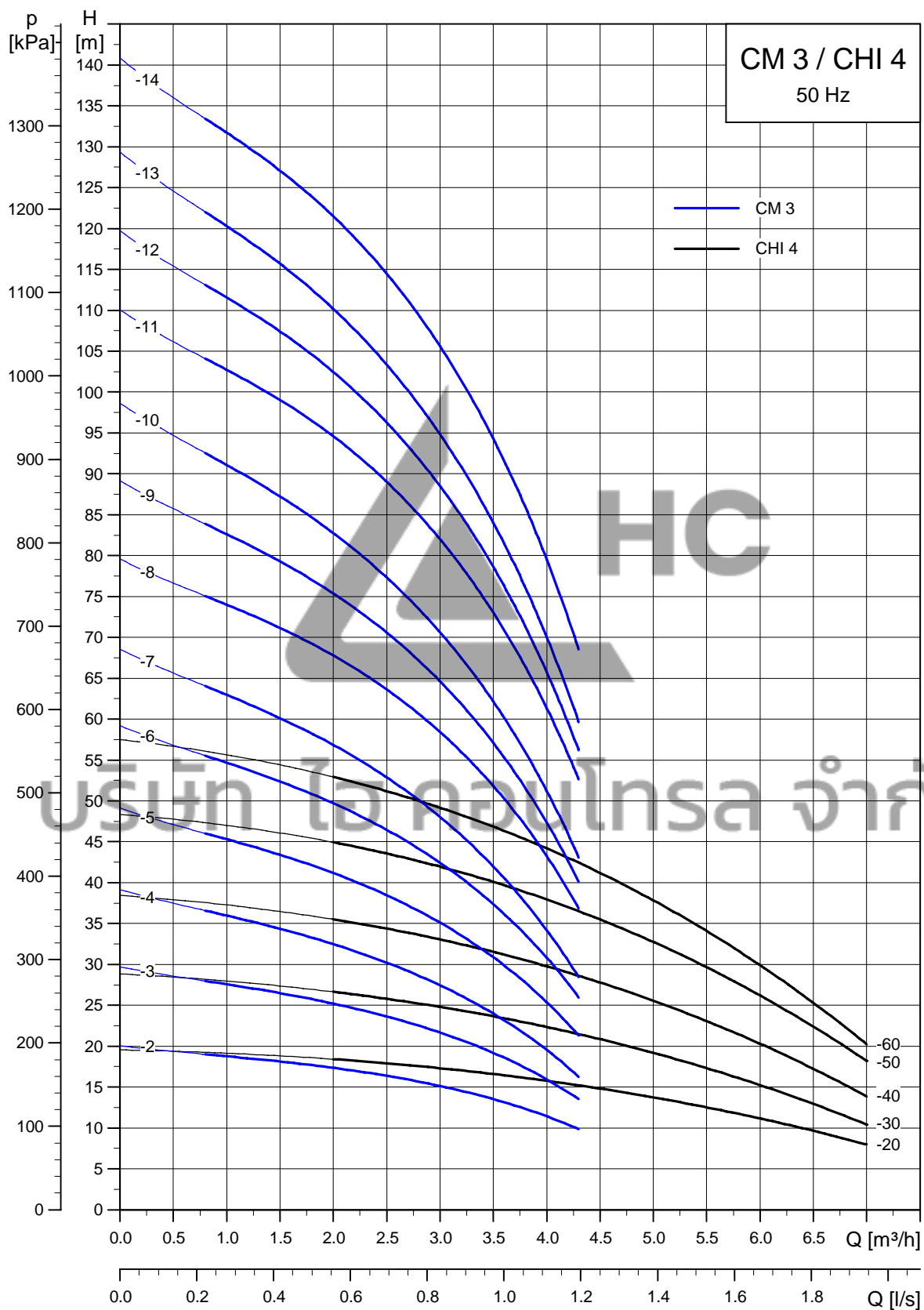
TM04 2194 2208

CH 4, CHN 4 to CM 3



TM04 2190 2208

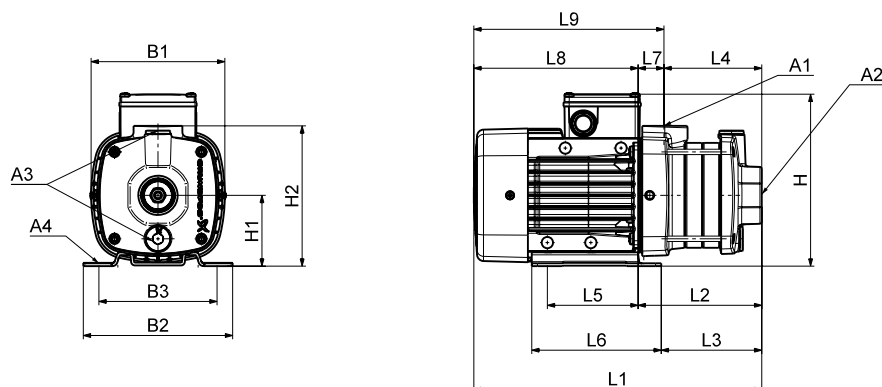
CHI 4 to CM 3



TM04 2195 2208

CM 3-A

(A = Cast iron)



TM04 2248 2208

Dimensions

3x220-240 V / 380-415 V, 50 Hz

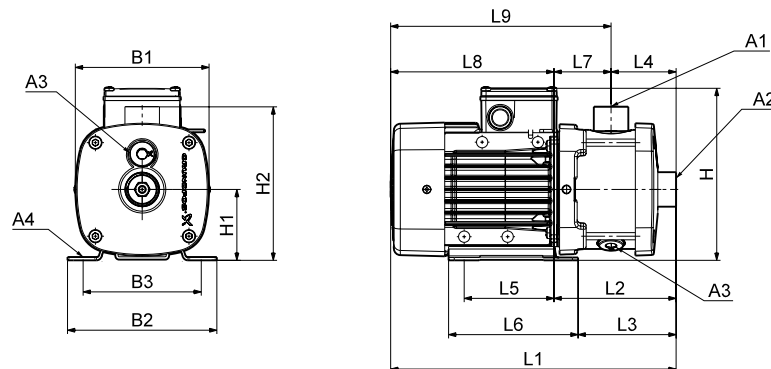
Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 3-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 3-4	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	323	149	124.5	121.5	96	137	27.5	174	201.5
CM 3-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	341	167	142.5	139.5	96	137	27.5	174	201.5
CM 3-6	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	359	185	160.5	157.5	96	137	27.5	174	201.5
CM 3-7	MG80A	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	417	203	178.5	175.5	96	137	27.5	214	241.5
CM 3-8	MG80B	1"	1"	3/8"	10.2	141.5	158	125	184	75	148.5	435	221	196.5	193.5	96	137	27.5	214	241.5

1x220-240 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 3-3	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 3-4	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	323	149	124.5	121.5	96	137	27.5	174	201.5
CM 3-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	341	167	142.5	139.5	96	137	27.5	174	201.5
CM 3-6	MG80A	1"	1"	3/8"	10.2	141.5	158	125	208	75	148.5	399	185	160.5	157.5	96	137	27.5	214	241.5
CM 3-7	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	148.5	417	203	178.5	175.5	96	137	27.5	214	241.5
CM 3-8	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	148.5	435	221	196.5	193.5	96	137	27.5	214	241.5

CM 3-I and CM 3-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316L)



TM04 2246 2208

Dimensions

3x220-240 V / 380-415 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 3-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 3-4	MG71A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	324	150	125.5	89.5	96	137	60.5	174	234.5
CM 3-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	342	168	143.5	107.5	96	137	60.5	174	234.5
CM 3-6	MG71B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	378	204	179.5	143.5	96	137	60.5	174	234.5
CM 3-7	MG80A	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	418	204	179.5	143.5	96	137	60.5	214	274.5
CM 3-8	MG80B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	454	240	215.5	179.5	96	137	60.5	214	274.5
CM 3-9*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	454	240	215.5	179.5	96	137	60.5	214	274.5
CM 3-10*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	184	75	165	490	276	251.5	215.5	96	137	60.5	214	274.5
CM 3-11*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	538	314	299	215.5	125	155	98.5	224	322.5
CM 3-12*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	592	368	353	269.5	125	155	98.5	224	322.5
CM 3-13*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	592	368	353	269.5	125	155	98.5	224	322.5
CM 3-14*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	592	368	353	269.5	125	155	98.5	224	322.5

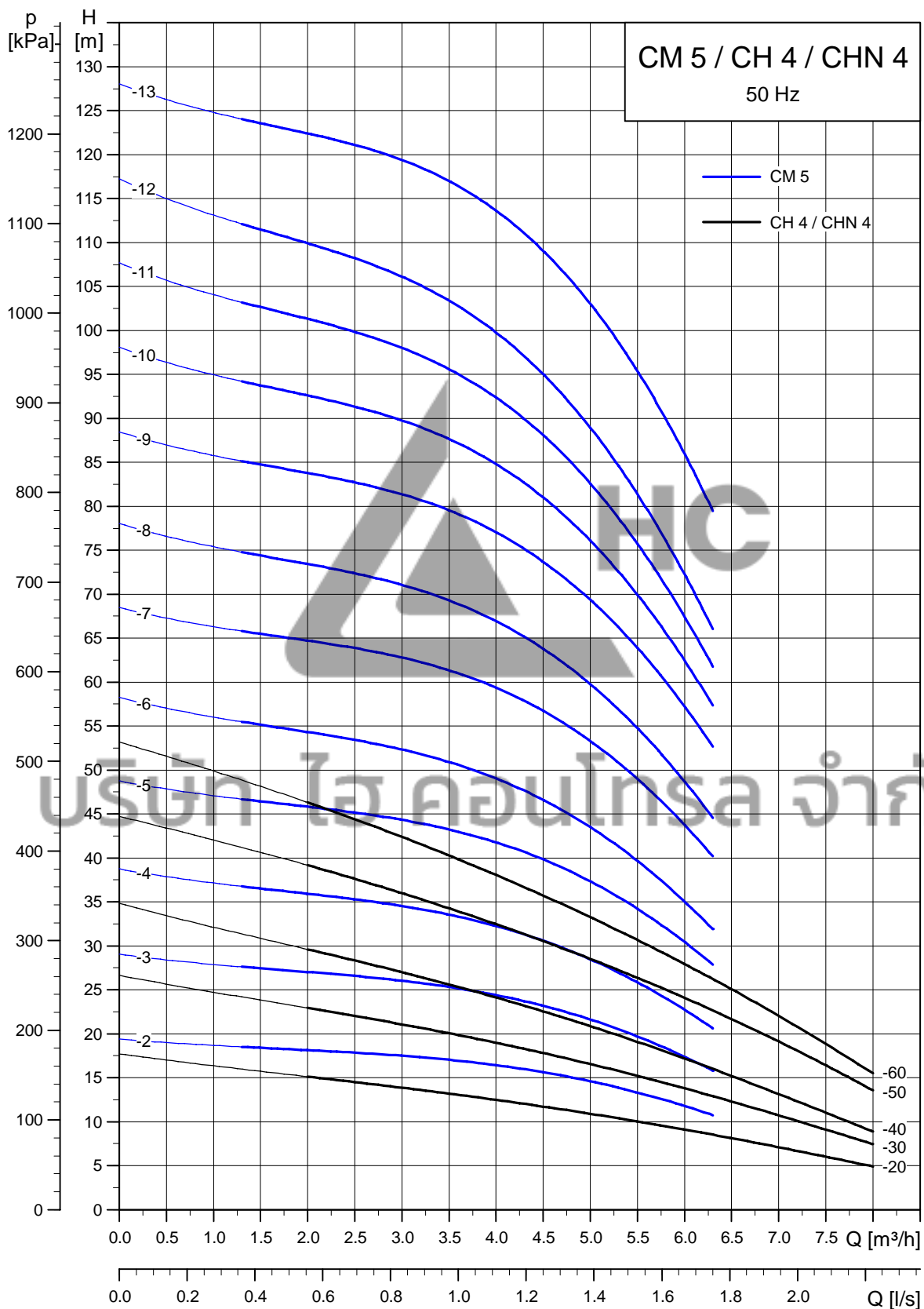
* Only CM-G versions are available with this number of stages.

1x220-240 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 3-3	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 3-4	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	324	150	125.5	89.5	96	137	60.5	174	234.5
CM 3-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	342	168	143.5	107.5	96	137	60.5	174	234.5
CM 3-6	MG80A	1"	1"	3/8"	10.2	141.5	158	125	208	75	165	418	204	179.5	143.5	96	137	60.5	214	274.5
CM 3-7	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	165	418	204	179.5	143.5	96	137	60.5	214	274.5
CM 3-8	MG80B	1"	1"	3/8"	10.2	141.5	158	125	208	75	165	454	240	215.5	179.5	96	137	60.5	214	274.5
CM 3-9*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180	502	278	263	179.5	125	155	98.5	224	322.5
CM 3-10*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180	538	314	299	215.5	125	155	98.5	224	322.5
CM 3-11*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180	538	314	299	215.5	125	155	98.5	224	322.5
CM 3-12*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180	592	368	353	269.5	125	155	98.5	224	322.5
CM 3-13*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180	592	368	353	269.5	125	155	98.5	224	322.5
CM 3-14*	MG90LB (S)	1"	1"	3/8"	10.2	178	178	140	229	90	180	592	368	353	269.5	125	155	98.5	224	322.5

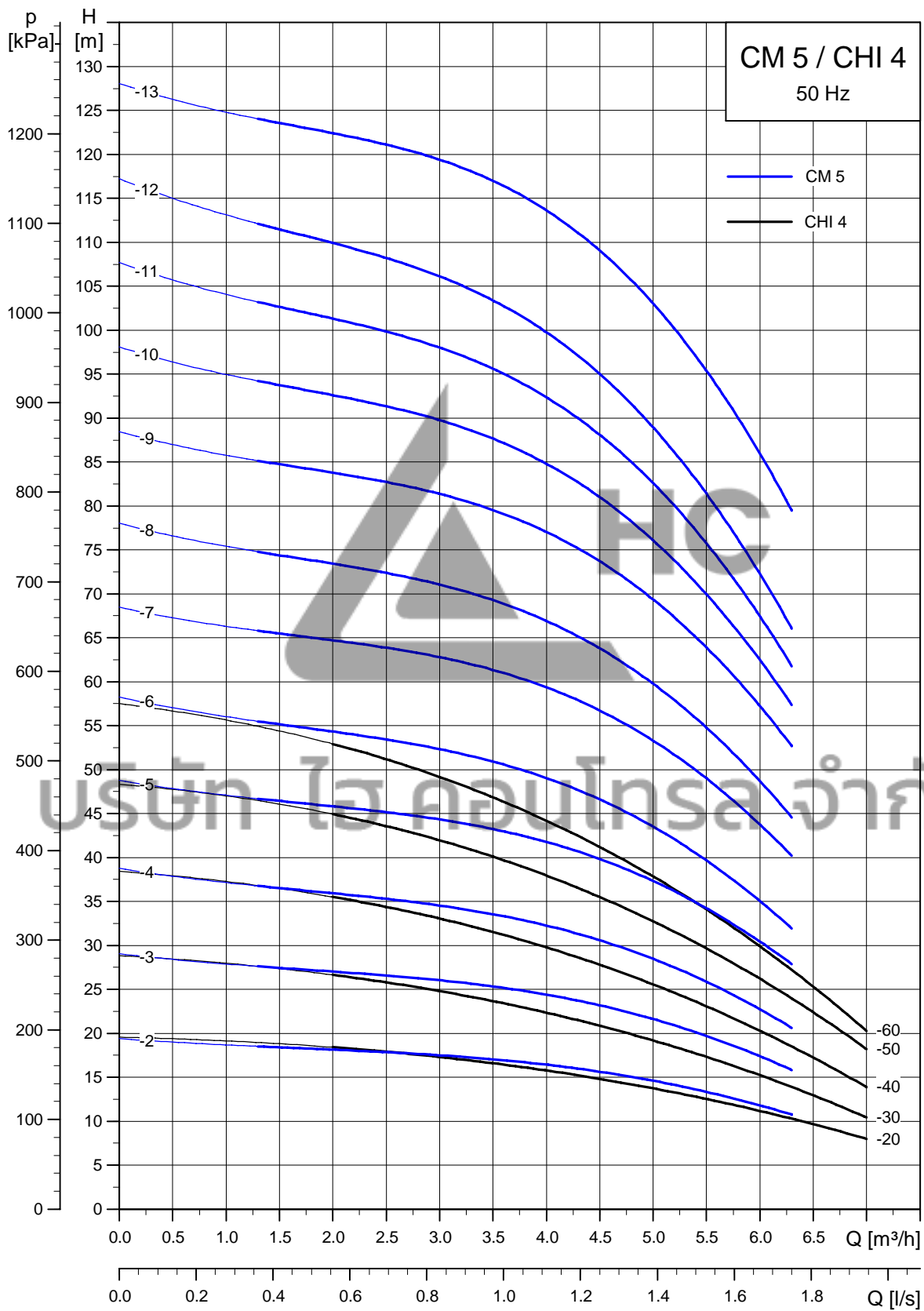
* Only CM-G versions are available with this number of stages.

CH 4, CHN 4 to CM 5



TM04 2191 2208

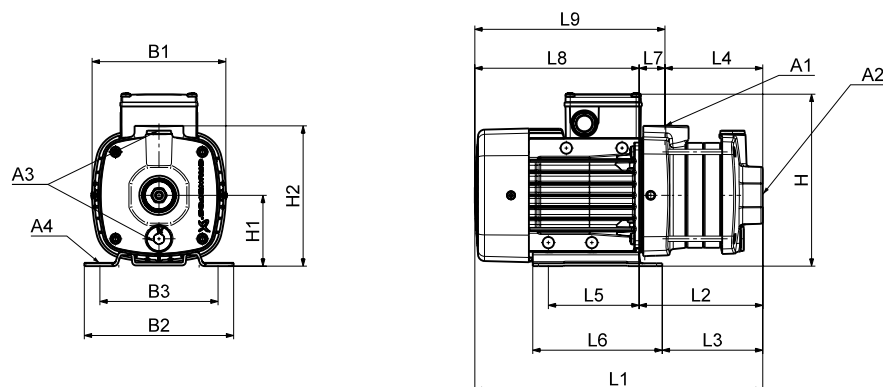
CHI 4 to CM 5



TM04 2196 2208

CM 5-A

(A = Cast iron)



TM04 2248 2208

Dimensions

3x220-240 V / 380-415 V, 50 Hz

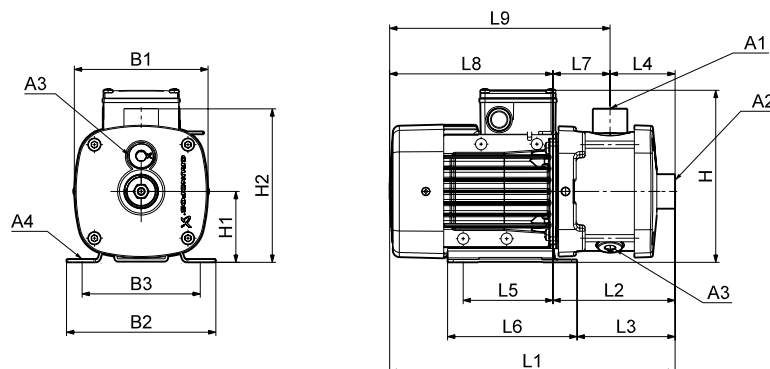
Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 5-2	MG71A	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 5-3	MG71B	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 5-4	MG80A	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	148.5	363	149	124.5	121.5	96	137	27.5	214	241.5
CM 5-5	MG80B	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	148.5	381	167	142.5	139.5	96	137	27.5	214	241.5
CM 5-6	MG80B	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	148.5	399	185	160.5	157.5	96	137	27.5	214	241.5
CM 5-7	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	469	245	230	163	125	155	82	224	306
CM 5-8	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	487	263	248	181	125	155	82	224	306

1x220-240 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 5-2	MG71B	1"	1 1/4"	3/8"	10.2	141.5	158	125	192	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 5-3	MG71B	1"	1 1/4"	3/8"	10.2	141.5	158	125	192	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 5-4	MG80A	1"	1 1/4"	3/8"	10.2	141.5	158	125	208	75	148.5	363	149	124.5	121.5	96	137	27.5	214	241.5
CM 5-5	MG80B	1"	1 1/4"	3/8"	10.2	141.5	158	125	208	75	148.5	381	167	142.5	139.5	125	137	27.5	214	241.5
CM 5-6	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	451	227	212	145	125	155	82	224	306
CM 5-7	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	469	245	230	163	125	155	82	224	306
CM 5-8	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	487	263	248	181	125	155	82	224	306

CM 5-I and CM 5-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316L)



TM04 2246 2208

Dimensions

3x220-240 V / 380-415 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 5-2	MG71	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 5-3	MG71	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 5-4	MG80	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	165	364	150	125.5	89.5	96	137	60.5	214	274.5
CM 5-5	MG80	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	165	382	168	143.5	107.5	96	137	60.5	214	274.5
CM 5-6	MG80	1"	1 1/4"	3/8"	10.2	141.5	158	125	184	75	165	418	204	179.5	143.5	96	137	60.5	214	274.5
CM 5-7	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	466	242	227	143.5	125	155	98.5	224	322.5
CM 5-8	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	502	278	263	179.5	125	155	98.5	224	322.5
CM 5-9*	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	502	278	263	179.5	125	155	98.5	224	322.5
CM 5-10*	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	538	314	299	215.5	125	155	98.5	224	322.5
CM 5-11*	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	538	314	299	215.5	125	155	98.5	224	322.5
CM 5-12*	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	592	368	353	269.5	125	155	98.5	224	322.5
CM 5-13*	MG100	1"	1 1/4"	3/8"	10.2	198	199	160	220	100	190	650	378	363	269.5	140	170	108.5	272	380.5

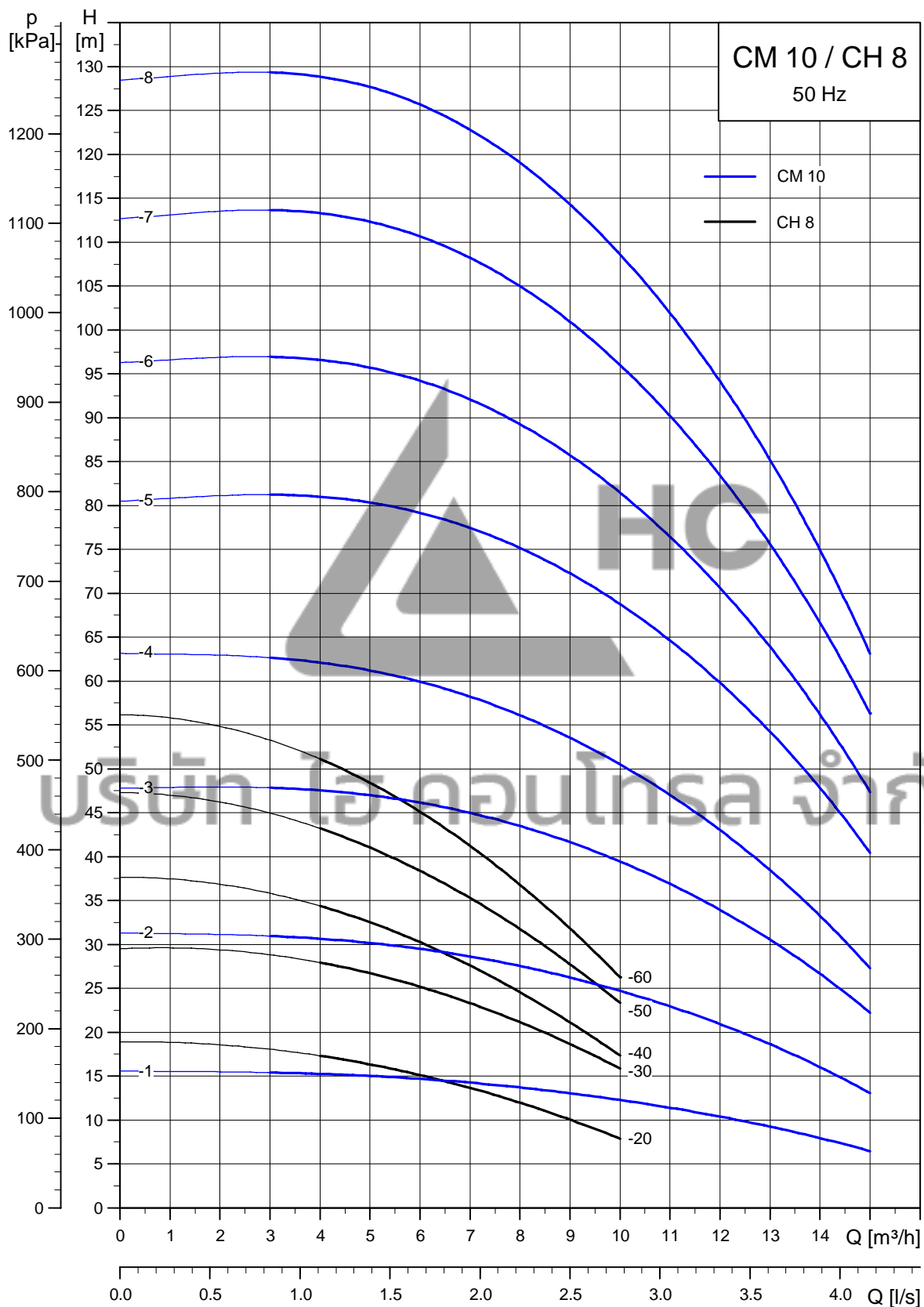
* Only CM-G versions are available with this number of stages.

1x220-240 V, 50 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 5-2	MG71B	1"	1 1/4"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 5-3	MG71B	1"	1 1/4"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 5-4	MG80A	1"	1 1/4"	3/8"	10.2	141.5	158	125	208	75	165	364	150	125.5	89.5	96	137	60.5	214	274.5
CM 5-5	MG80B	1"	1 1/4"	3/8"	10.2	141.5	158	125	208	75	165	382	168	143.5	107.5	96	137	60.5	214	274.5
CM 5-6	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	466	242	227	143.5	125	155	98.5	224	322.5
CM 5-7	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	466	242	227	143.5	125	155	98.5	224	322.5
CM 5-8	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	502	278	263	179.5	125	155	98.5	224	322.5
CM 5-9*	MG90LC (L)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	542	278	263	179.5	125	155	98.5	264	362.5
CM 5-10*	MG90LC (L)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	578	314	299	215.5	125	155	98.5	264	362.5
CM 5-11*	MG90LC (L)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	578	314	299	215.5	125	155	98.5	264	362.5
CM 5-12*	MG90LC (L)	1"	1 1/4"	3/8"	10.2	178	178	140	229	90	180	632	368	353	269.5	125	155	98.5	264	362.5

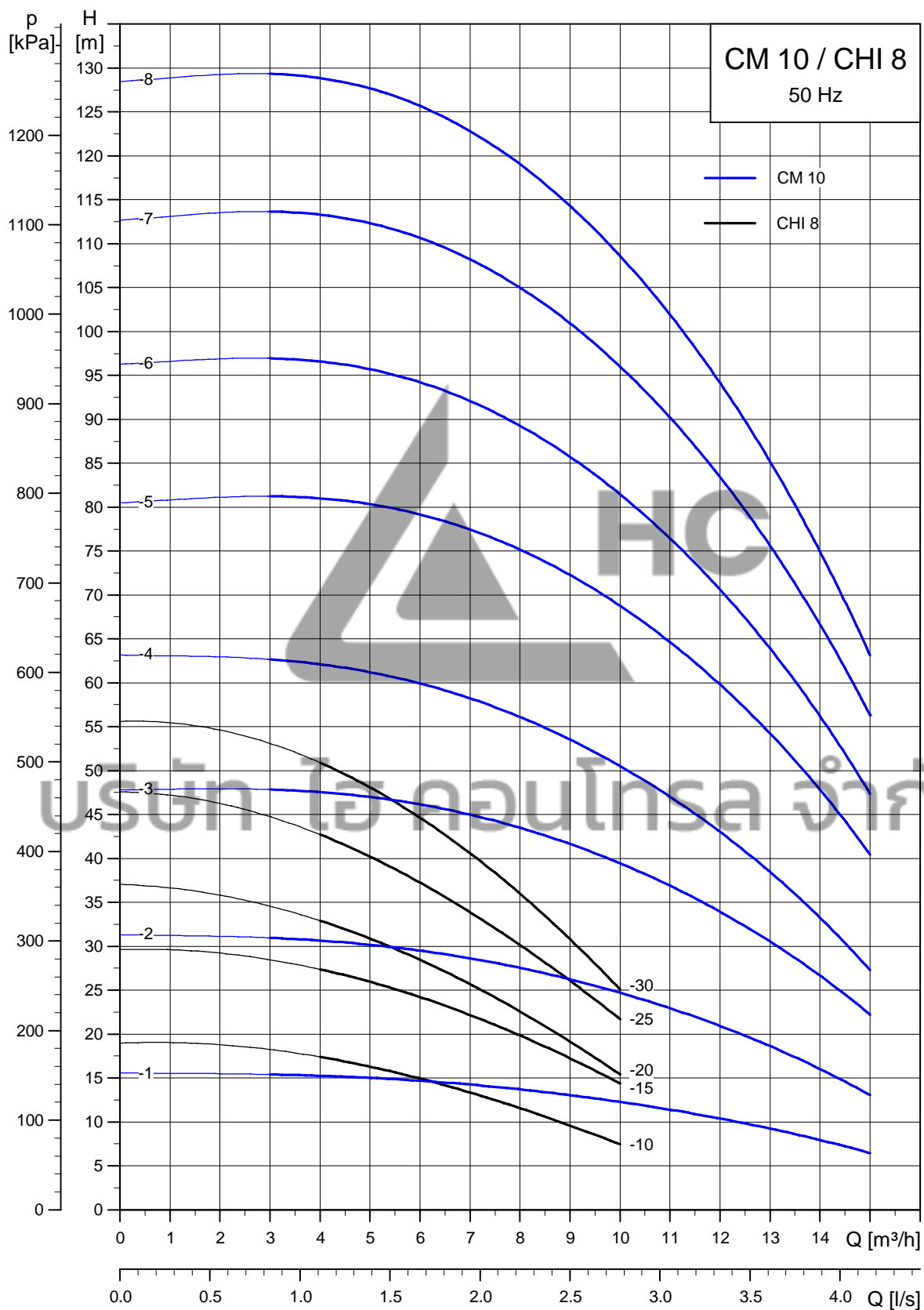
* Only CM-G versions are available with this number of stages.

CH 8, CHN 8 to CM 10



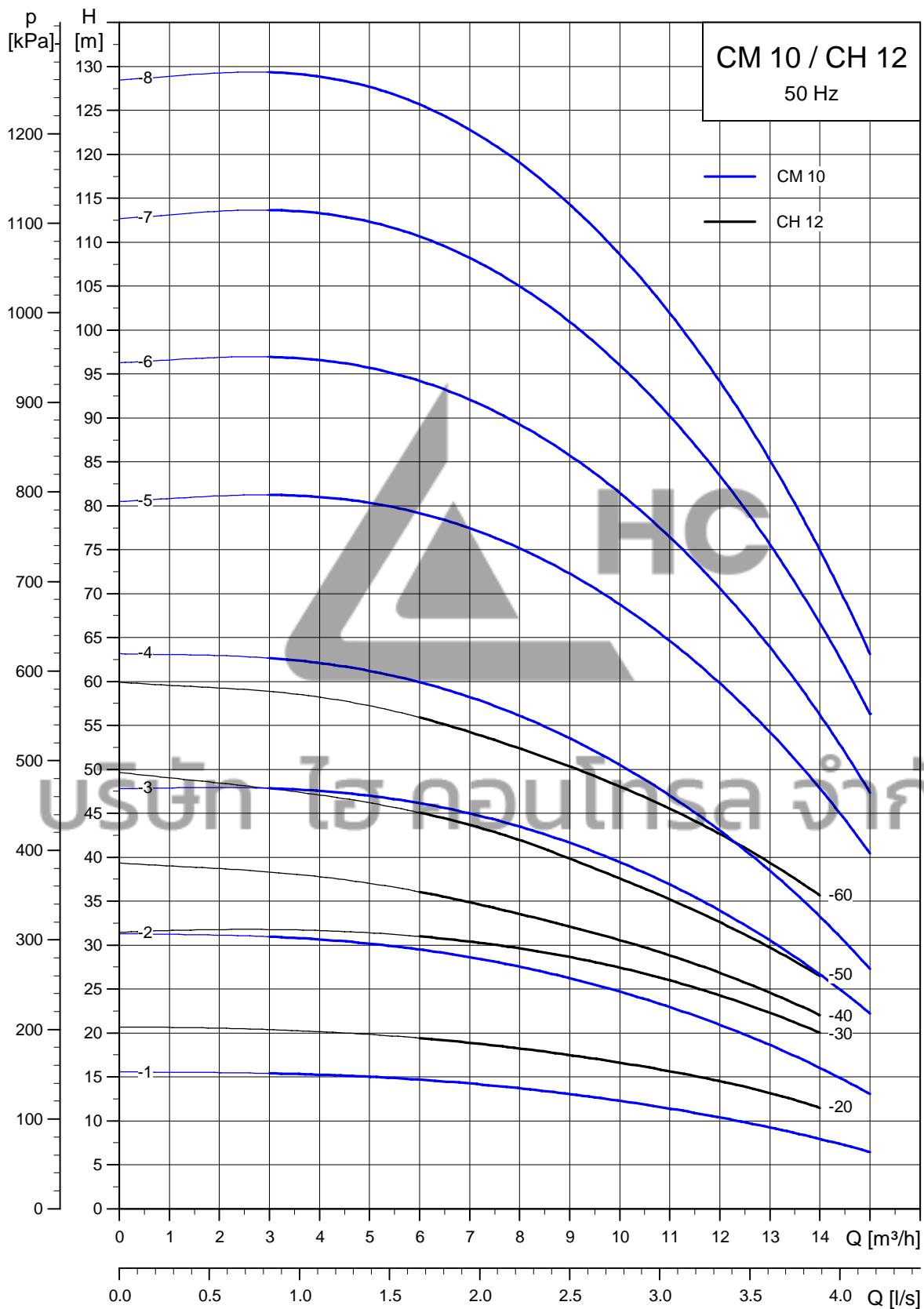
TM04 2199 2208

CHI 8 to CM 10



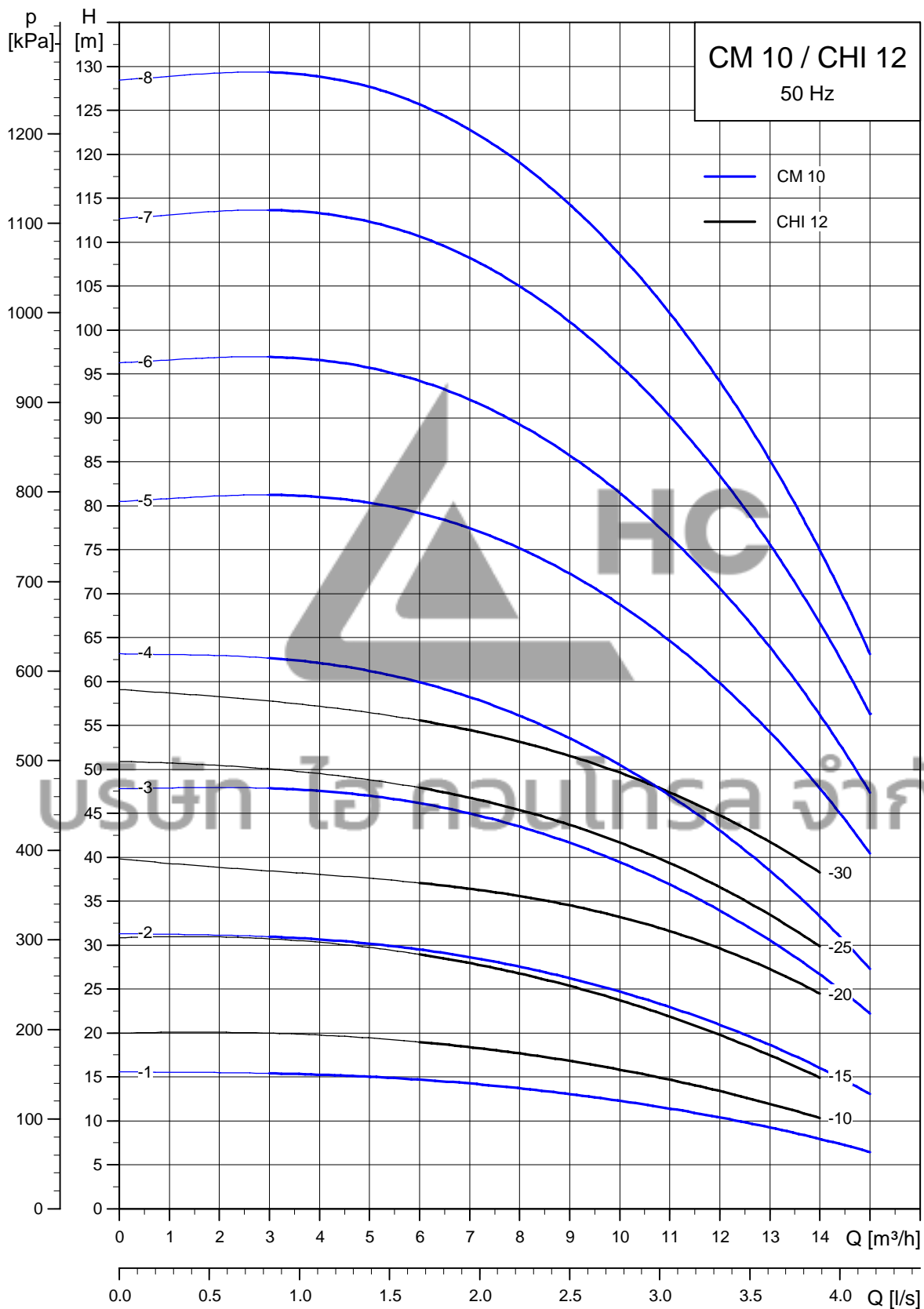
TM04 2200 2208

CH 12, CHN 12 to CM 10



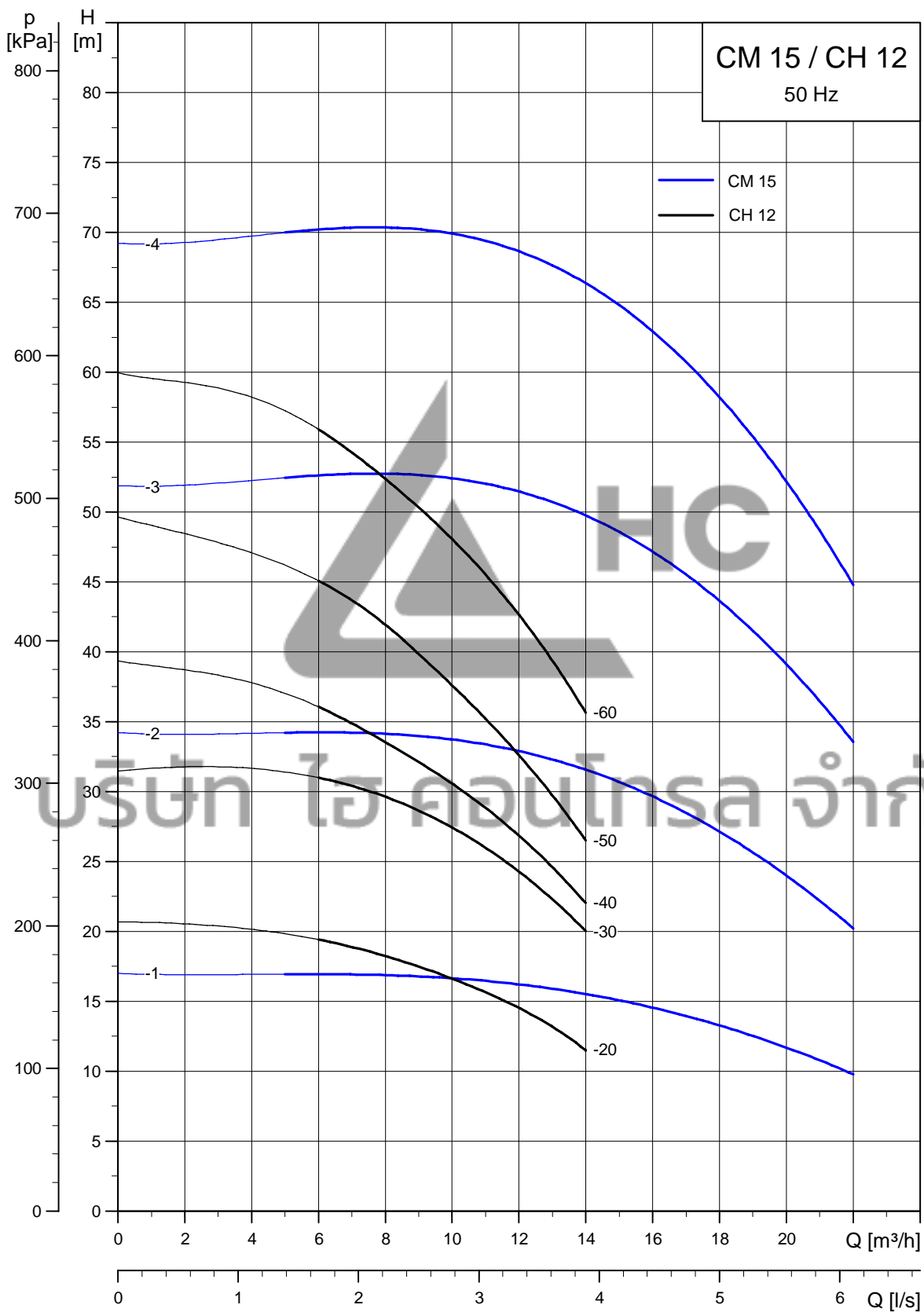
TM04 2197 2208

CHI 12 to CM 10



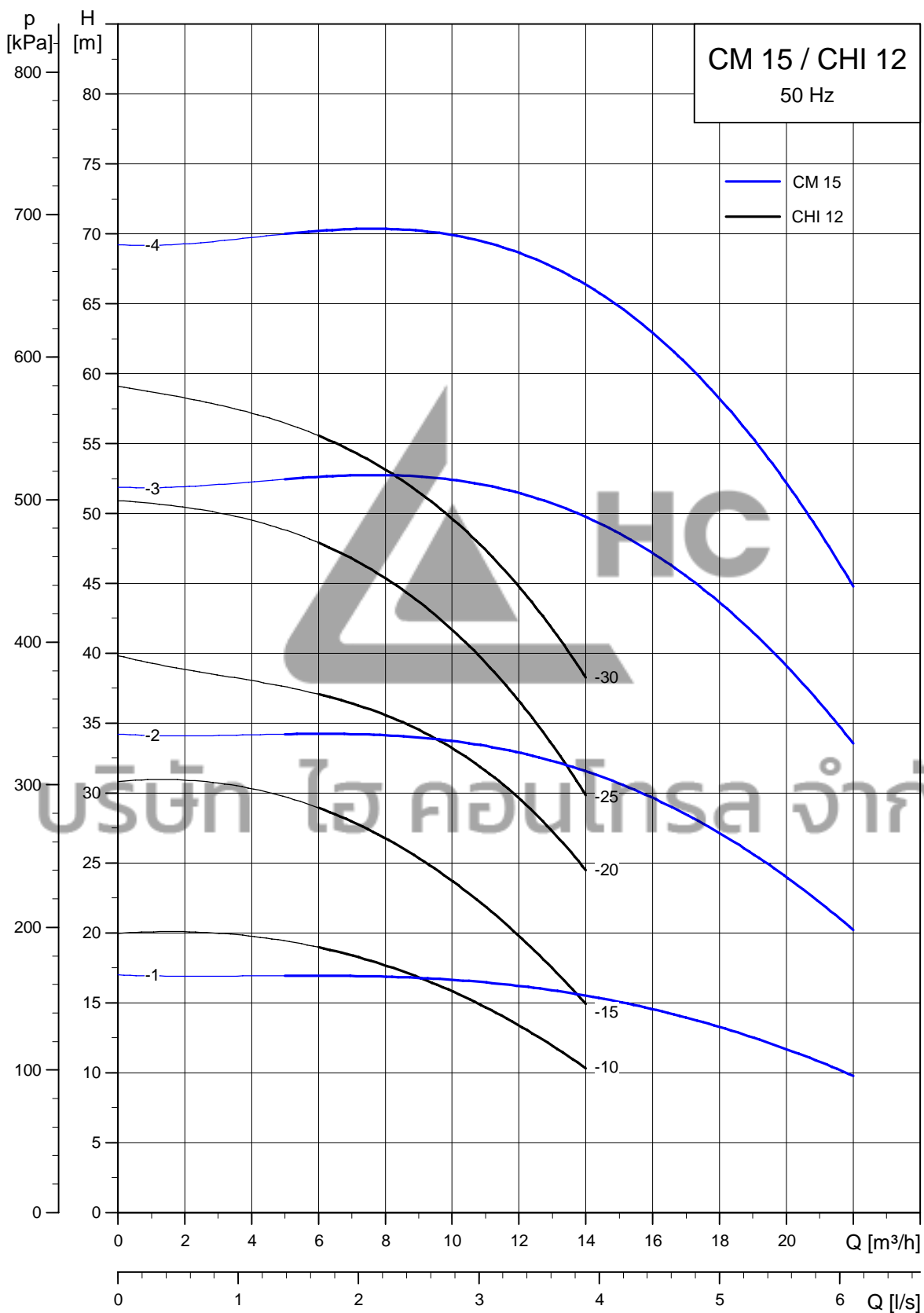
TM04 2198 2208

CH 12, CHN 12 to CM 15



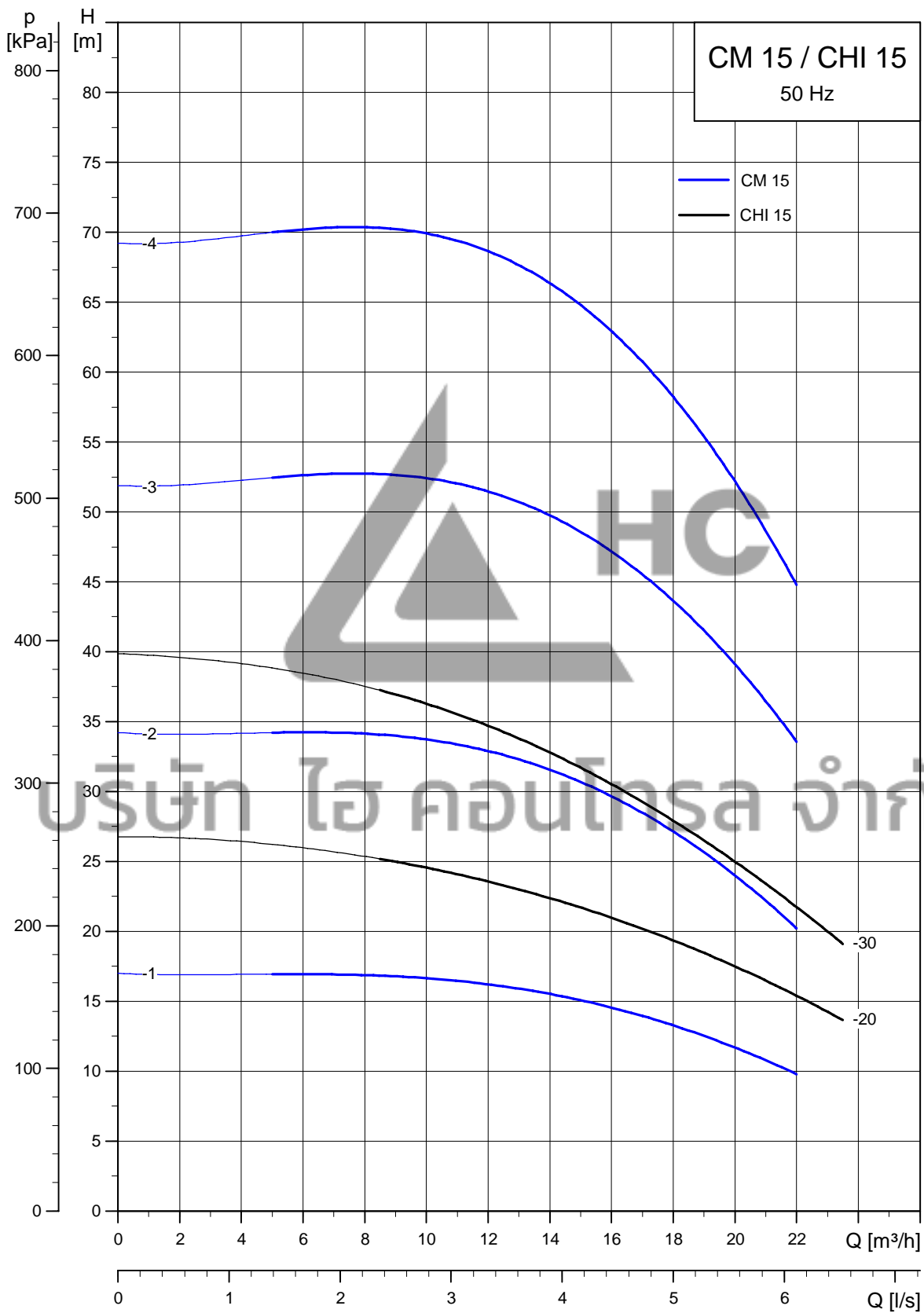
TM04 2201 2208

CHI 12 to CM 15



TM04 2202 2208

CHI 15 to CM 15

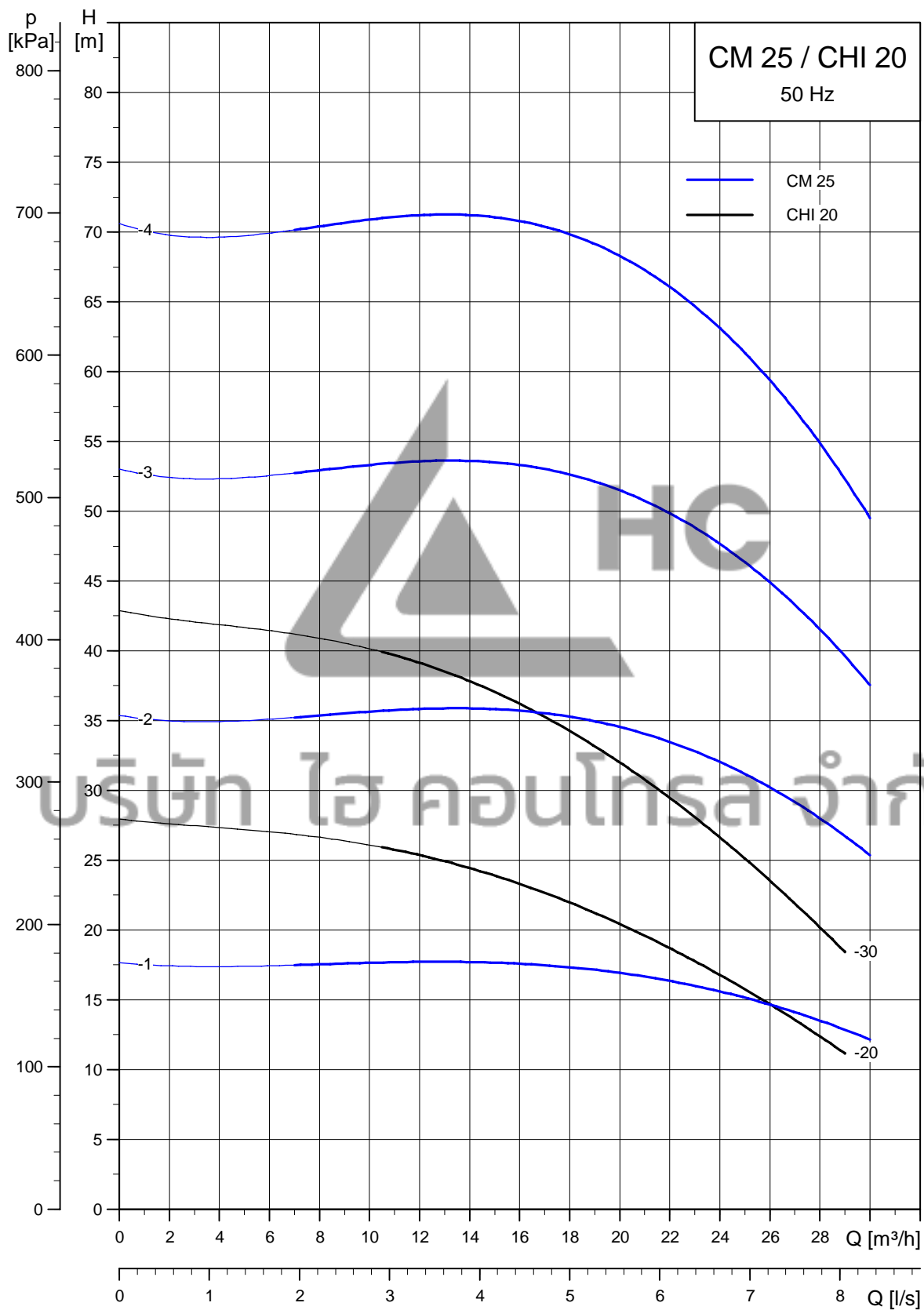


TM04 2203 2208



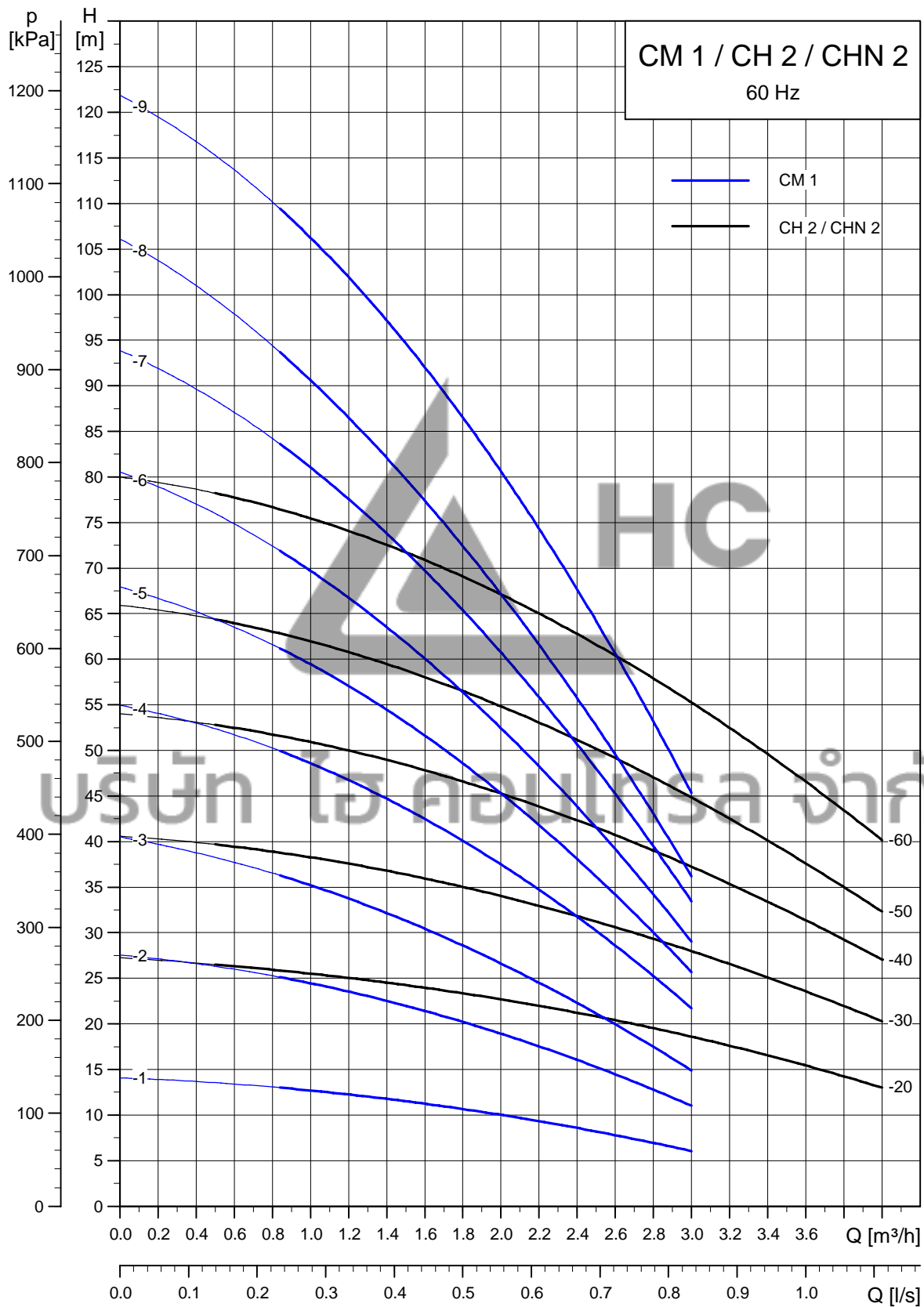
บริษัท ไฮ คอนโทรล จำกัด.

CHI 20 to CM 25



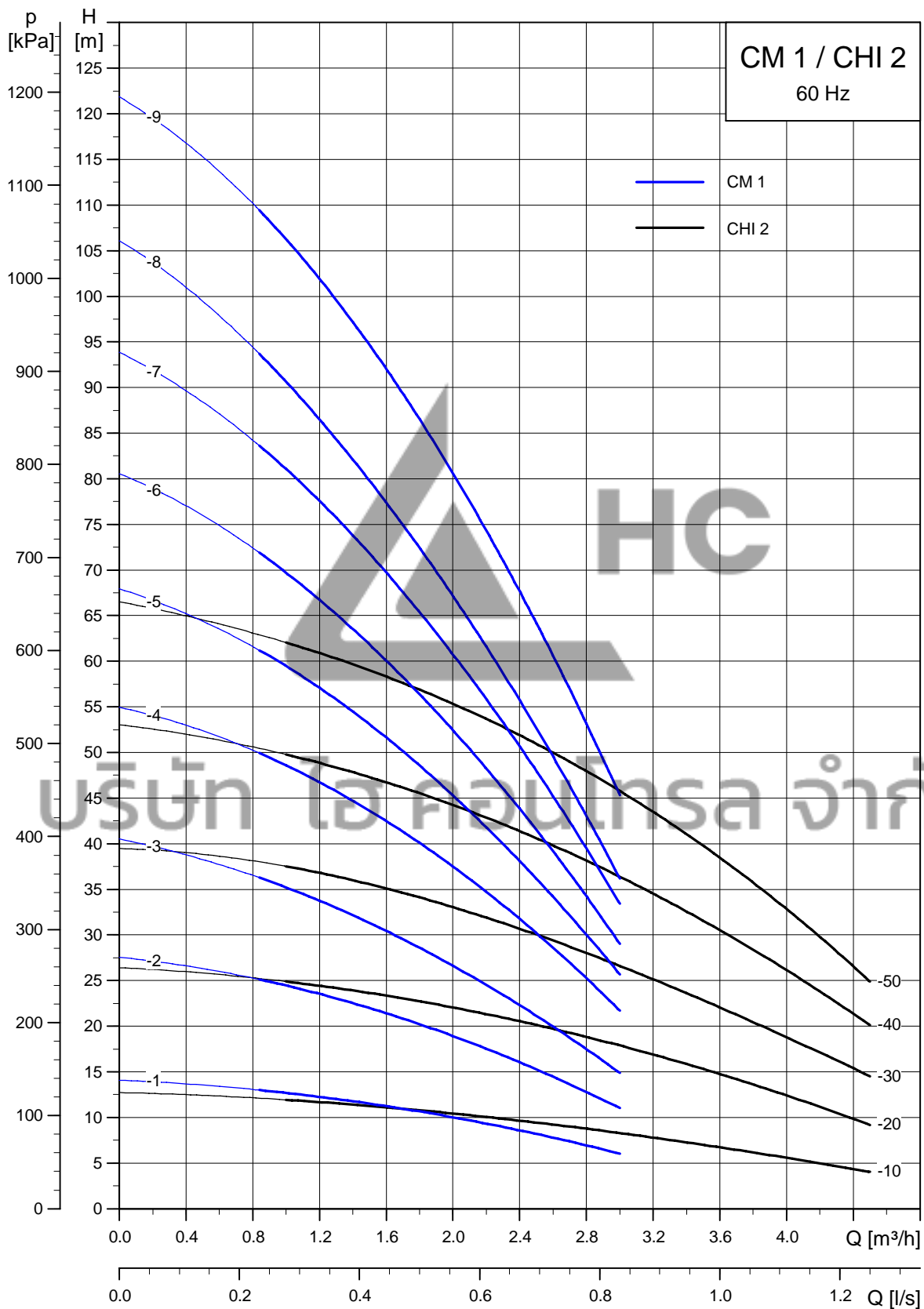
TM04 2204 2208

CH 2, CHN 2 to CM 1



TM04 2205 2208

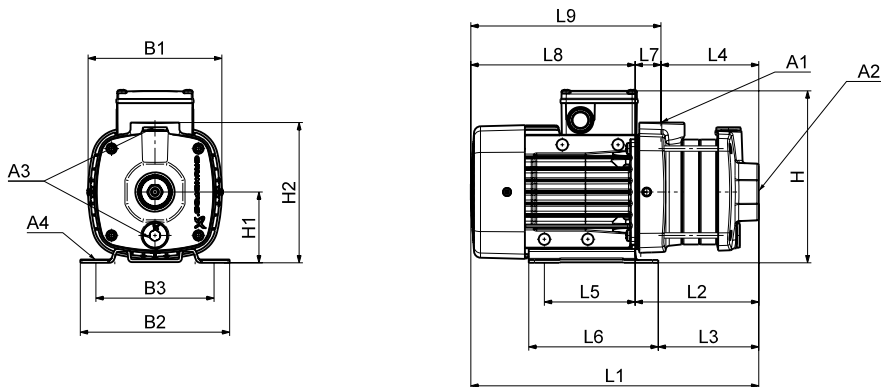
CHI 2 to CM 1



TM04 2206 2208

CM 1-A

(A = Cast iron)



Dimensions

3x208-230 V / 440-480 V, 60 Hz

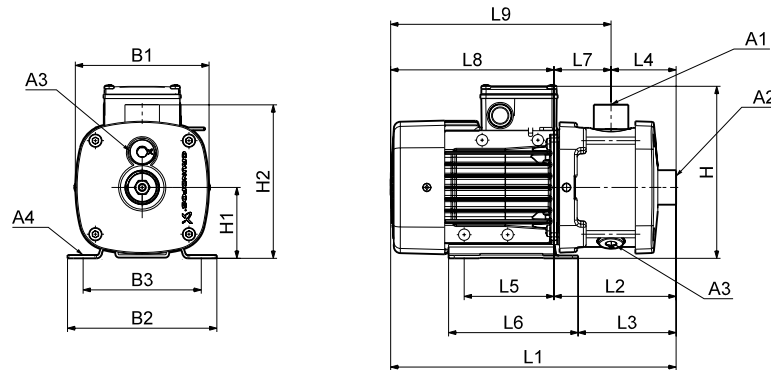
Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 1-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 1-3	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 1-4	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	363	149	124.5	121.5	96	137	27.5	214	241.5
CM 1-5	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	381	167	142.5	139.5	96	137	27.5	214	241.5

TM04 2248 2208

บริษัท ไฮ คอนโทรล จำกัด.

CM 1-I and CM 1-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316L)



TM04 2246 2208

Dimensions

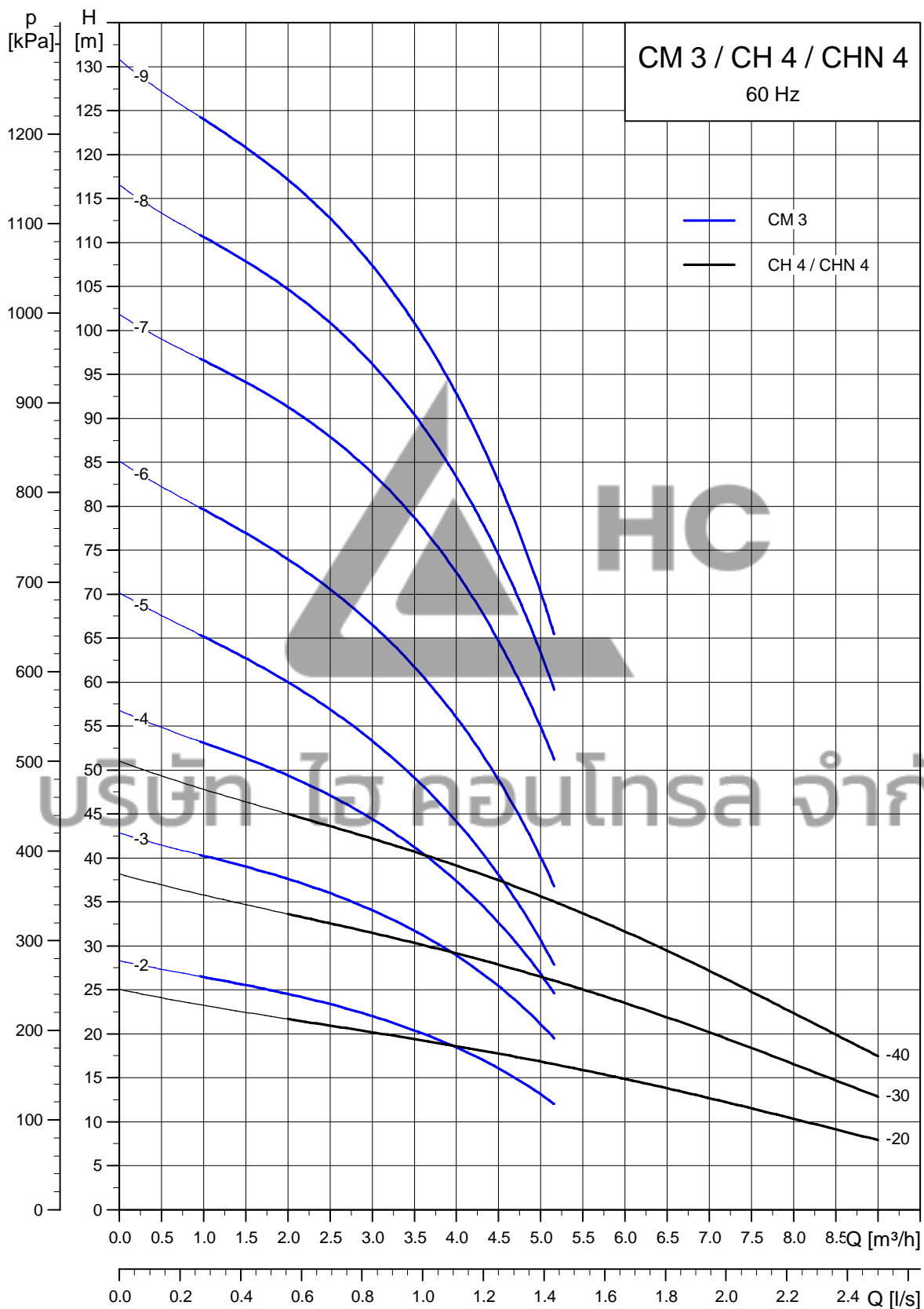
3x208-230 V / 440-480 V, 60 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 1-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 1-3	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 1-4	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	324	150	125.5	89.5	96	137	60.5	174	234.5
CM 1-5	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	342	168	143.5	107.5	96	137	60.5	174	234.5
CM 1-6*	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	378	204	179.5	143.5	96	137	60.5	174	234.5
CM 1-7*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	418	204	179.5	143.5	96	137	60.5	214	274.5
CM 1-8*	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	454	240	215.5	179.5	96	137	60.5	214	274.5
CM 1-9*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165.3	454	240	215.5	179.5	96	137	60.5	214	274.5

* Only CM-G versions are available with this number of stages.

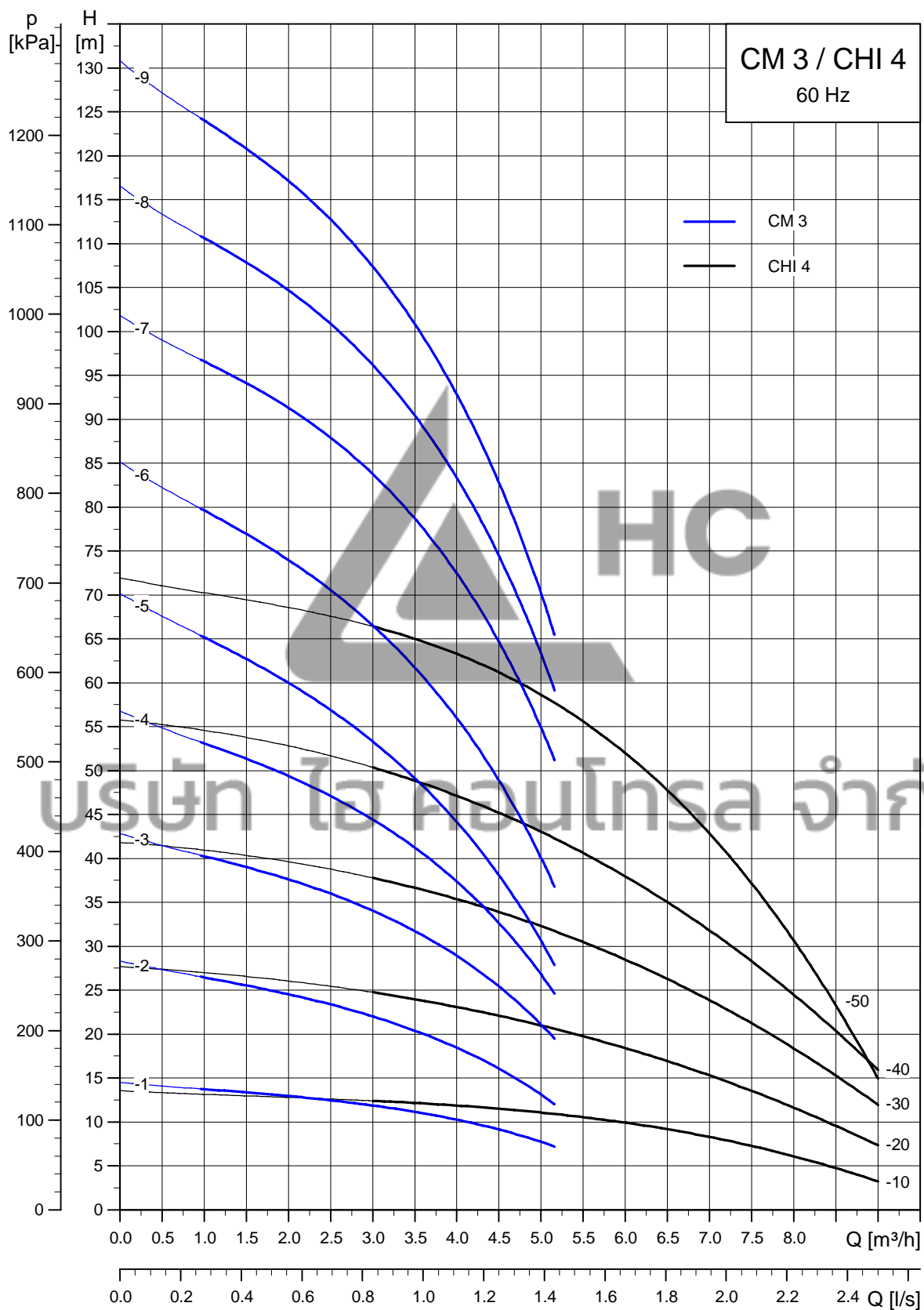
บริษัท ไฮ คอนโทรล จำกัด.

CH 2, CHN 2 to CM 3



TM04 2207 2208

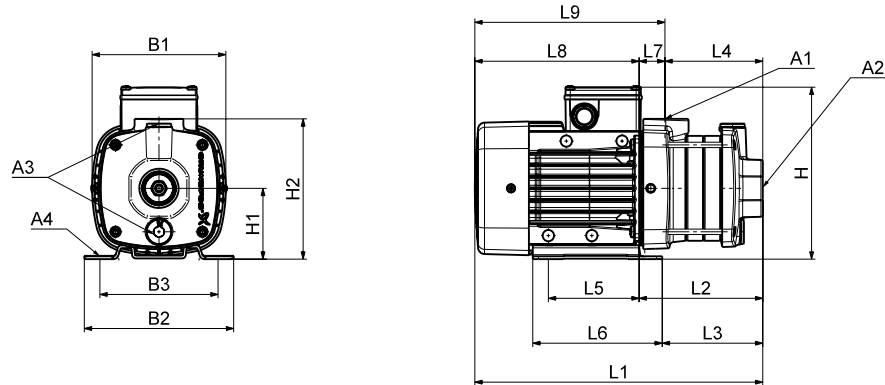
CHI 4 to CM 3



TM04 2208 2208

CM 3-A

(A = Cast iron)



TM04 2248 2208

Dimensions

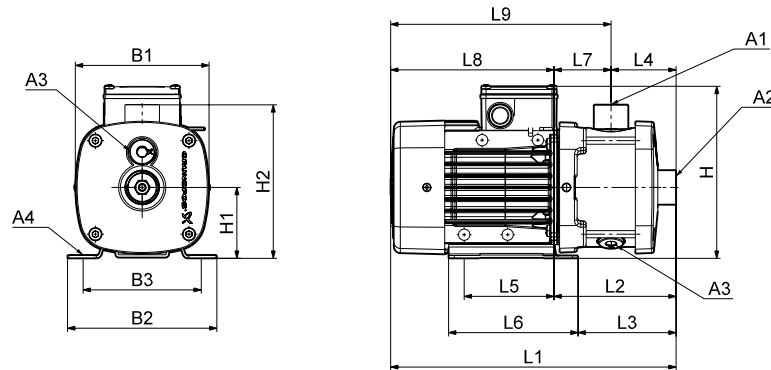
3x208-230 V / 440-480 V, 60 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 3-3	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	305	131	106.5	103.5	96	137	27.5	174	201.5
CM 3-4	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	363	149	124.5	121.5	96	137	27.5	214	241.5
CM 3-5	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	148.5	381	167	142.5	139.5	96	137	27.5	214	241.5

บริษัท ไฮ คอนโทรล จำกัด.

CM 3-I and CM 3-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316L)



TM04 2246 2208

Dimensions

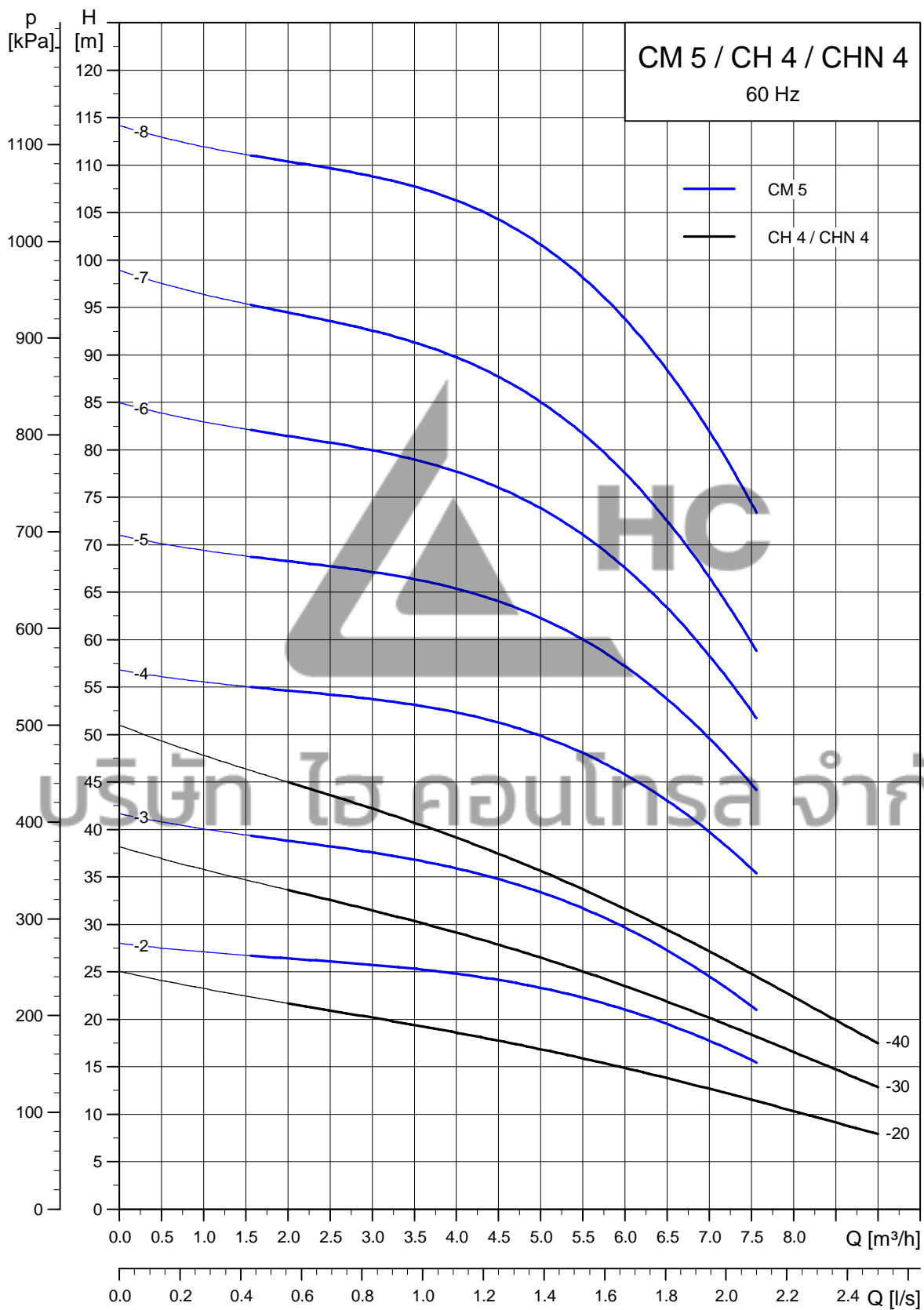
3x208-230 V / 440-480 V, 60 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 3-2	MG71A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 3-3	MG71B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 3-4	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	364	150	125.5	89.5	96	137	60.5	214	274.5
CM 3-5	MG80A	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	382	168	143.5	107.5	96	137	60.5	214	274.5
CM 3-6*	MG80B	1"	1"	3/8"	10.2	141.5	158	125	192	75	165	418	204	179.5	143.5	96	137	60.5	214	274.5
CM 3-7*	MG90 LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	466	242	227	143.5	125	155	98.5	224	322.5
CM 3-8*	MG90 LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	502	278	263	179.5	125	155	98.5	224	322.5
CM 3-9*	MG90 LB (S)	1"	1"	3/8"	10.2	178	178	140	200	90	180	502	278	263	179.5	125	155	98.5	224	322.5

* Only CM-G versions are available with this number of stages.

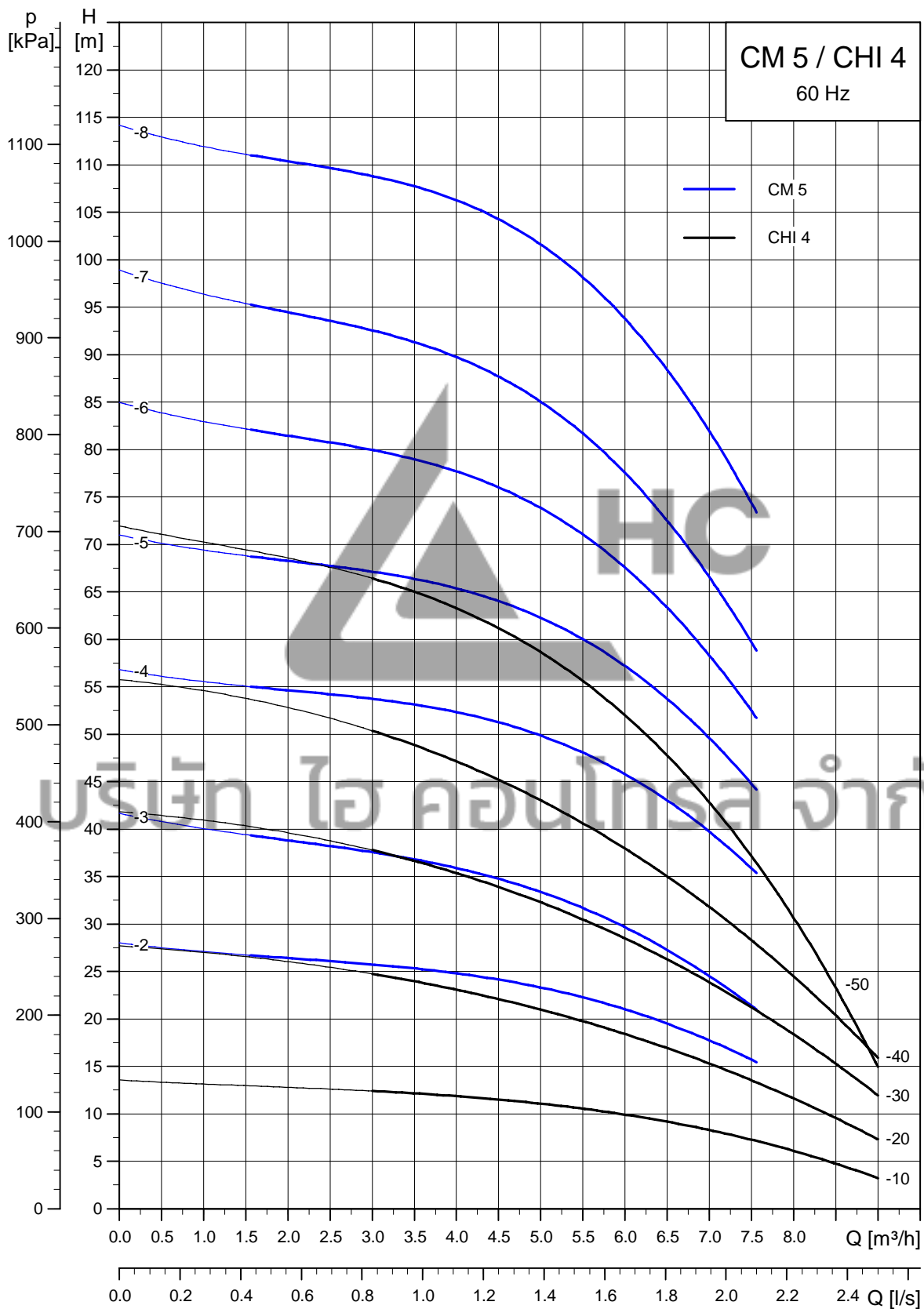
บริษัท ไฮ คอนโทรล จำกัด.

CH 4, CHN 4 to CM 5



TM04 2209 2208

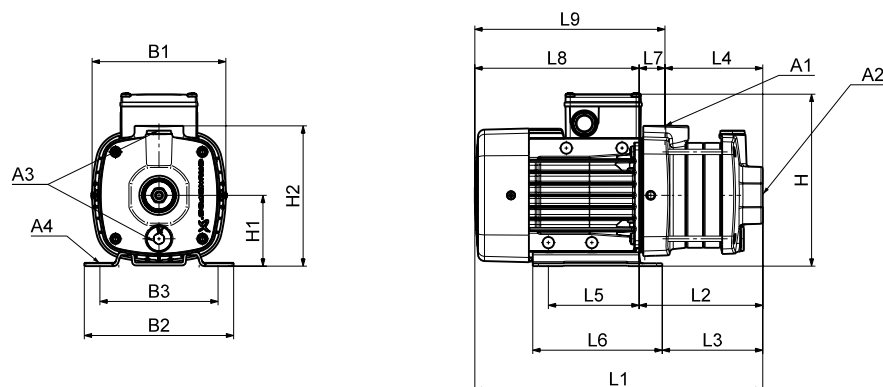
CHI 4 to CM 5



TM04 2196 2208

CM 5-A

(A = Cast iron)



TM04 2248 2208

Dimensions

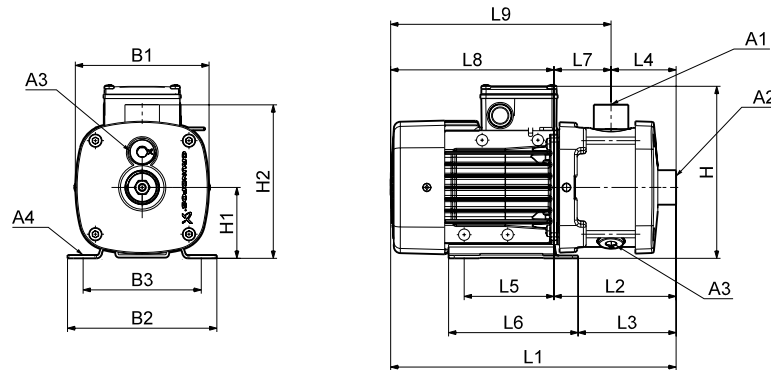
3x208-230 V / 440-480 V, 60 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 5-2	MG71B	1"	1 1/4"	3/8"	10.2	141.5	158	125	192	75	148.5	287	113	88.5	85.5	96	137	27.5	174	201.5
CM 5-3	MG80A	1"	1 1/4"	3/8"	10.2	141.5	158	125	192	75	148.5	345	131	106.5	103.5	96	137	27.5	214	241.5
CM 5-4	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	415	191	176	109	125	155	82	224	306
CM 5-5	MG90LB (S)	1"	1 1/4"	3/8"	10.2	178	178	140	200	90	180	433	209	194	127	125	155	82	224	306

บริษัท ไฮ คอนโทรล จำกัด.

CM 5-I and CM 5-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316L)



TM04 2246 2208

Dimensions

3x208-230 V / 440-480 V, 60 Hz

Pump type	Motor	Dimensions [mm]																		
		A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 5-2	MG71B	1"	1¼"	3/8"	10.2	141.5	158	125	192	75	165	306	132	107.5	71.5	96	137	60.5	174	234.5
CM 5-3	MG80A	1"	1¼"	3/8"	10.2	141.5	158	125	192	75	165	346	132	107.5	71.5	96	137	60.5	214	274.5
CM 5-4	MG90LB (S)	1"	1¼"	3/8"	10.2	178	178	140	200	90	180	412	188	173	89.5	125	155	98.5	224	322.5
CM 5-5	MG90LB (S)	1"	1¼"	3/8"	10.2	178	178	140	200	90	180	430	206	191	107.5	125	155	98.5	224	322.5
CM 5-6*	MG90LB (S)	1"	1¼"	3/8"	10.2	178	178	140	200	90	180	466	242	227	143.5	125	155	98.5	224	322.5
CM 5-7*	MG90LB (S)	1"	1¼"	3/8"	10.2	178	178	140	200	90	180	466	242	227	143.5	125	155	98.5	224	322.5
CM 5-8*	MG100	1"	1¼"	3/8"	10.2	198	199	160	220	100	190	560	288	273	179.5	140	170	108.5	272	380.5

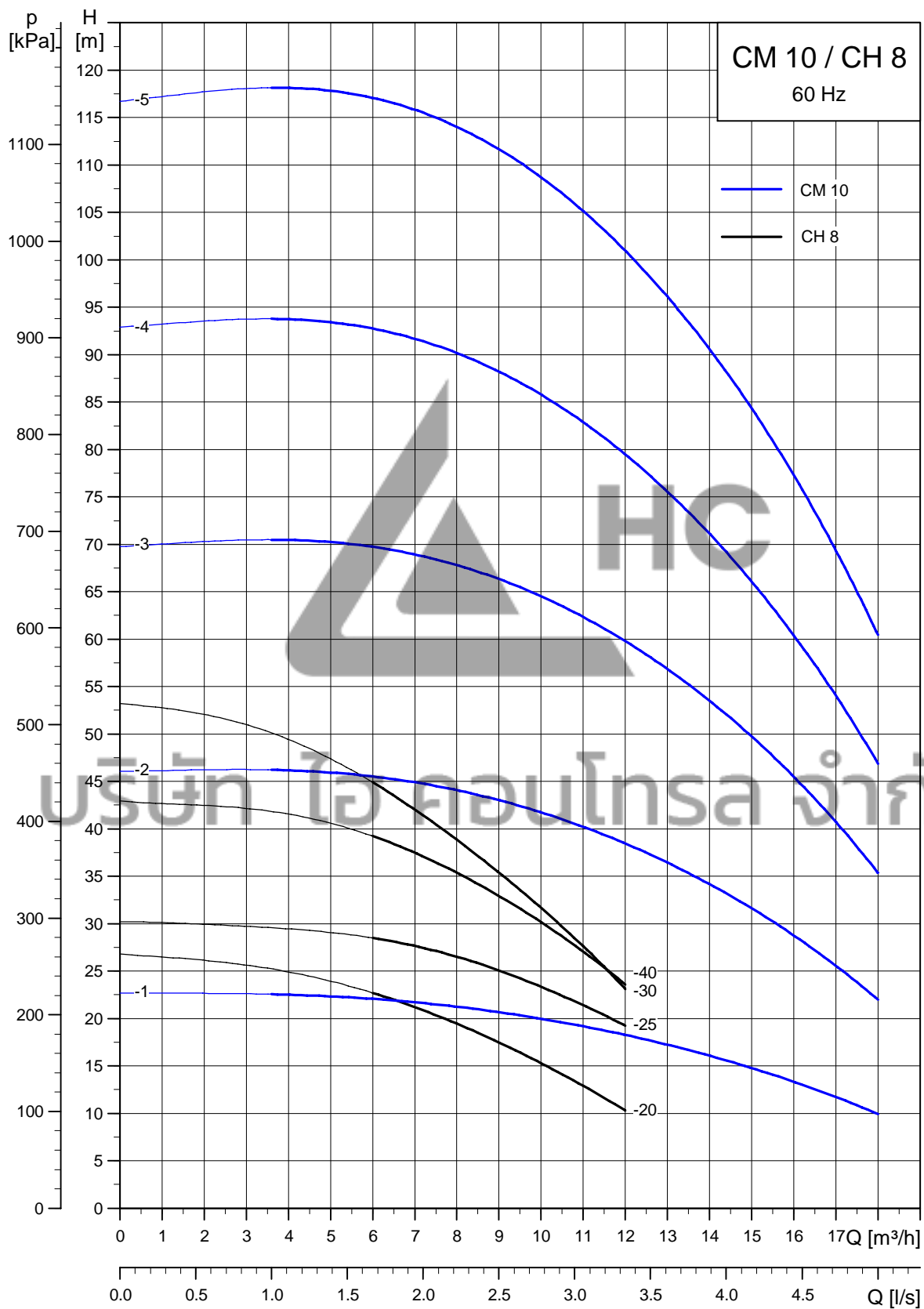
* Only CM-G versions are available with this number of stages.

บริษัท ไฮ คอนโทรล จำกัด.



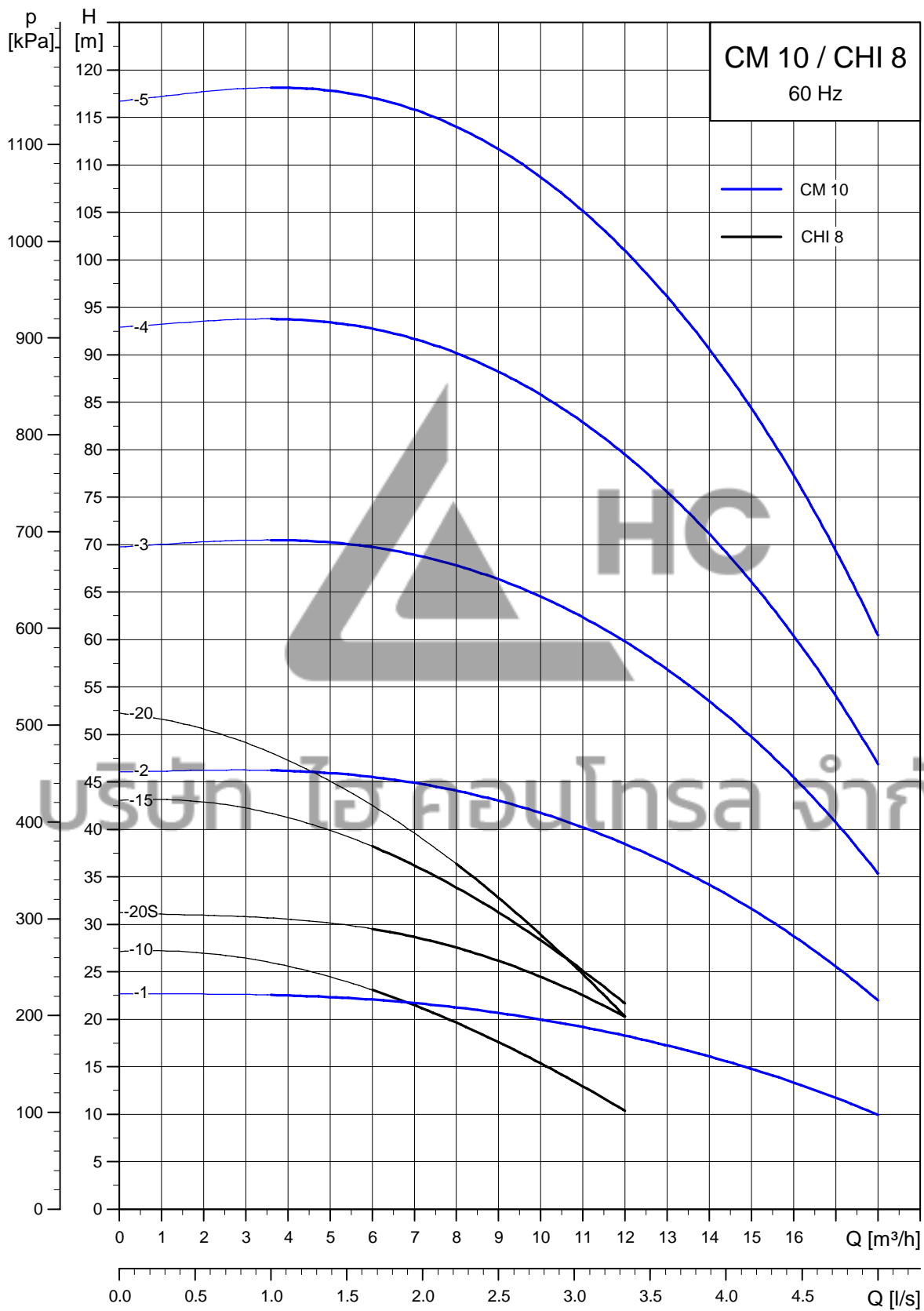
บริษัท ไฮ คอนโทรล จำกัด.

CH 8, CHN 8 to CM 10



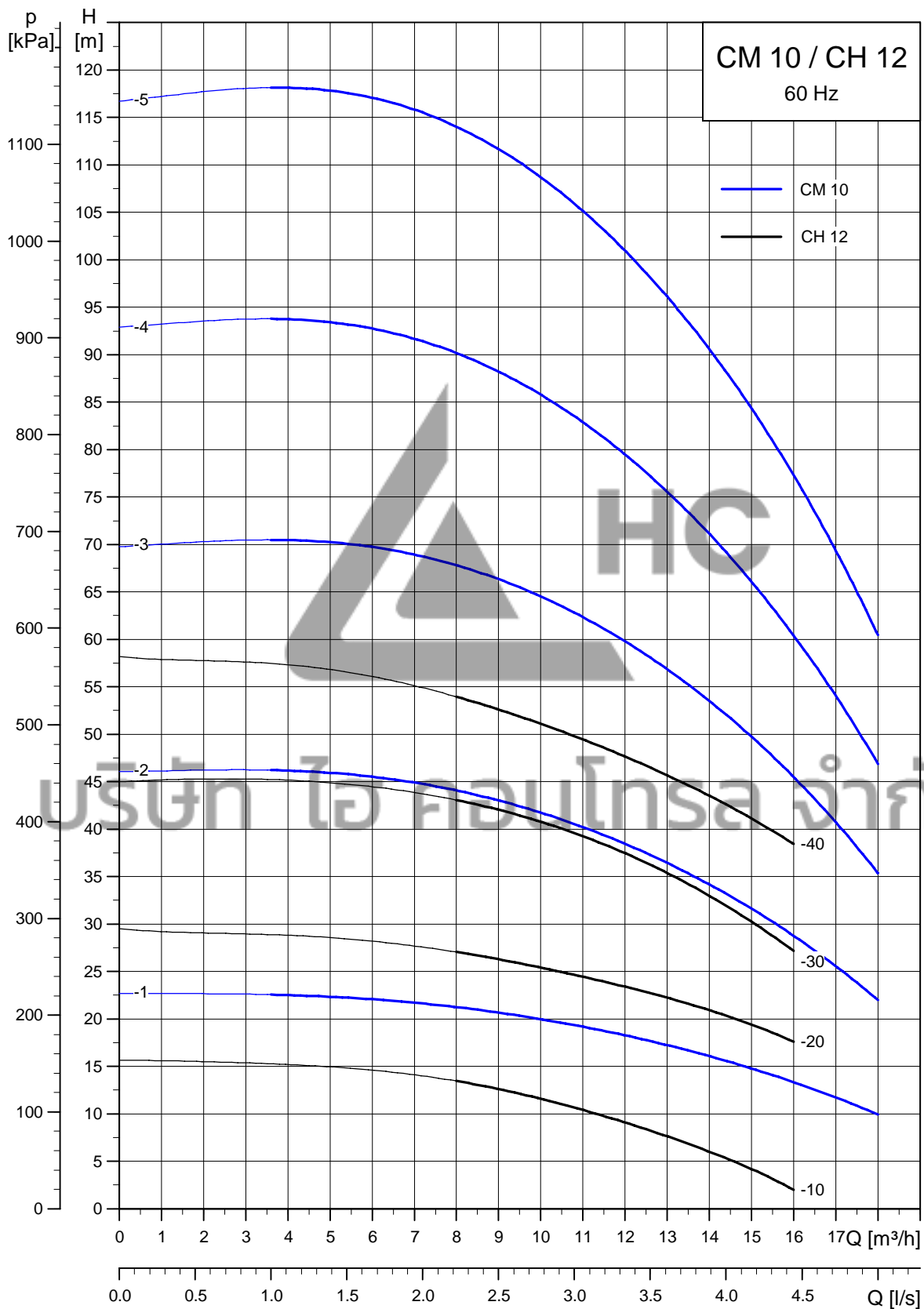
TM04 2211 2208

CHI 8 to CM 10



TM04 2212 2208

CH 12, CHN 12 to CM 10

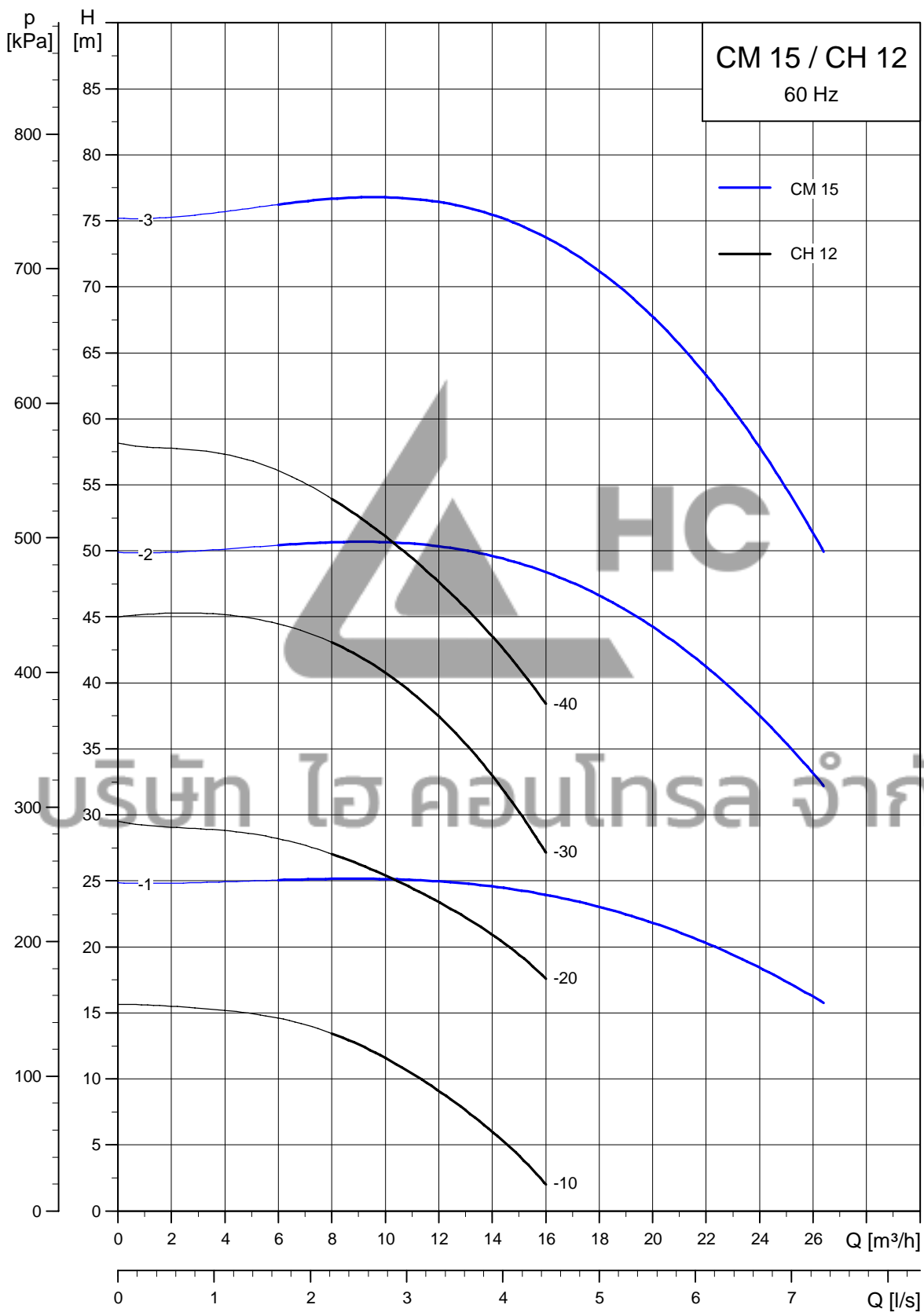


TM04 2213 2208



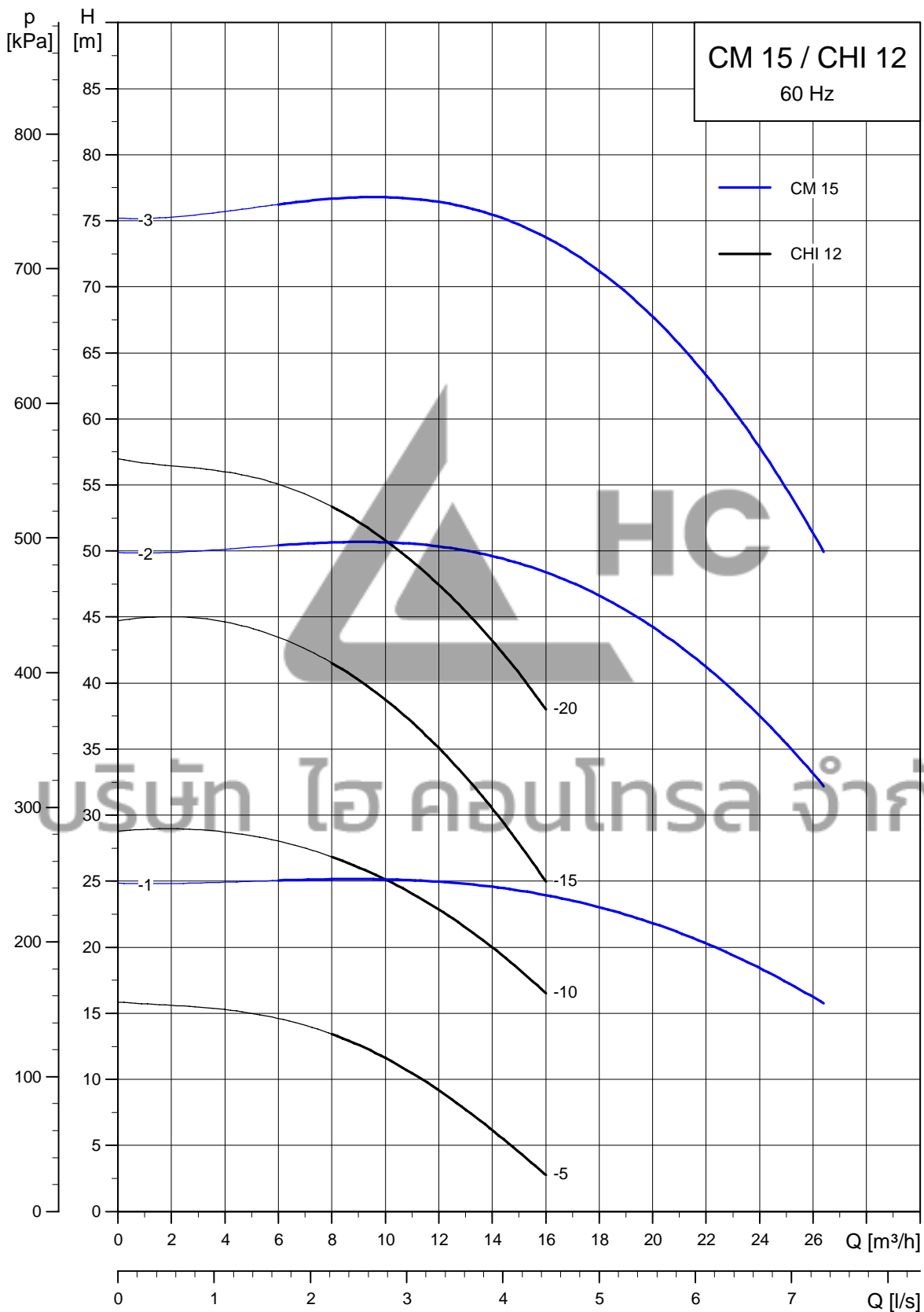
บริษัท ไฮ คอนโทรล จำกัด.

CH 12, CHN 12 to CM 15



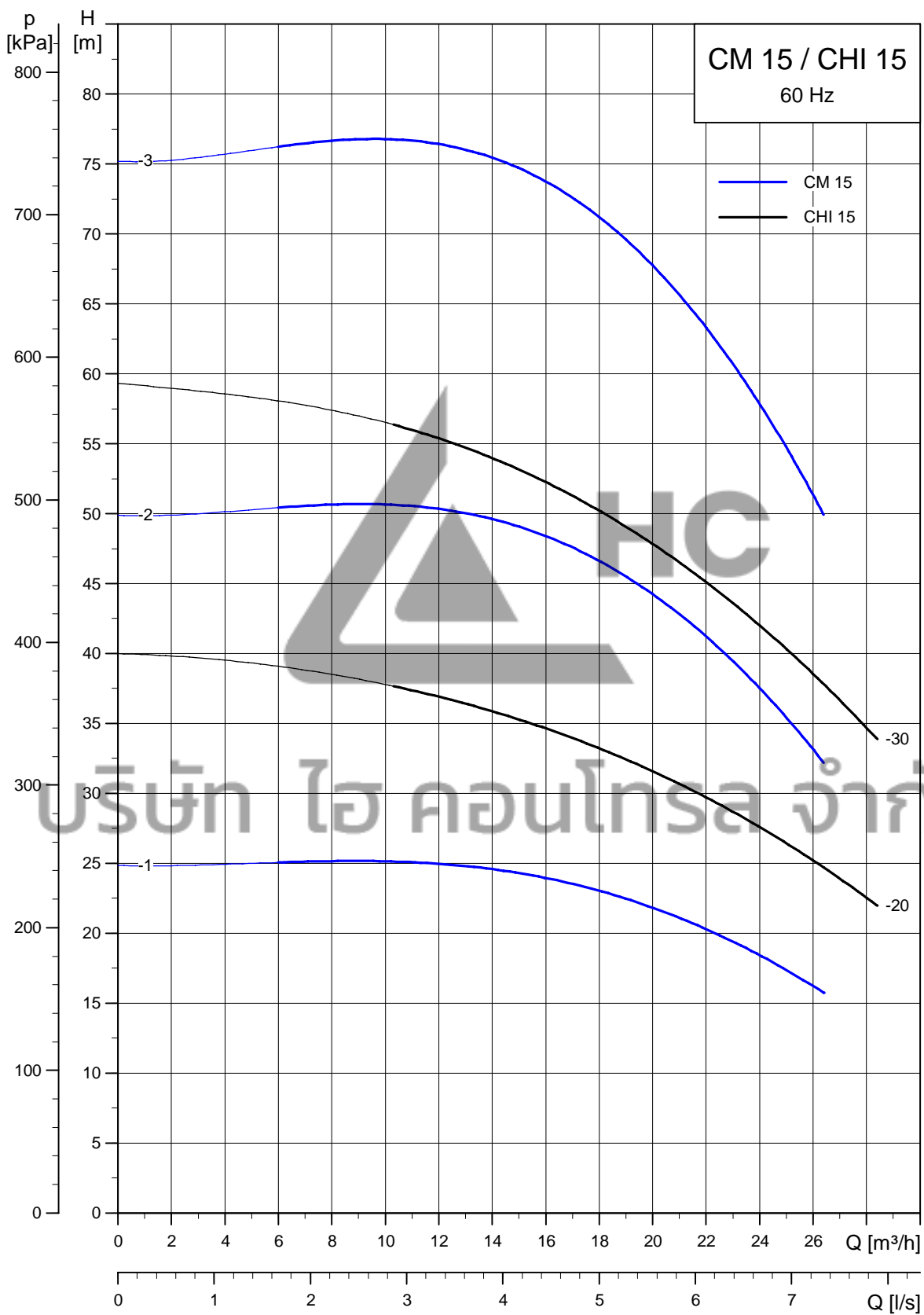
TM04 2217 2208

CHI 12 to CM 15



TM04 2218 2208

CHI 15 to CM 15

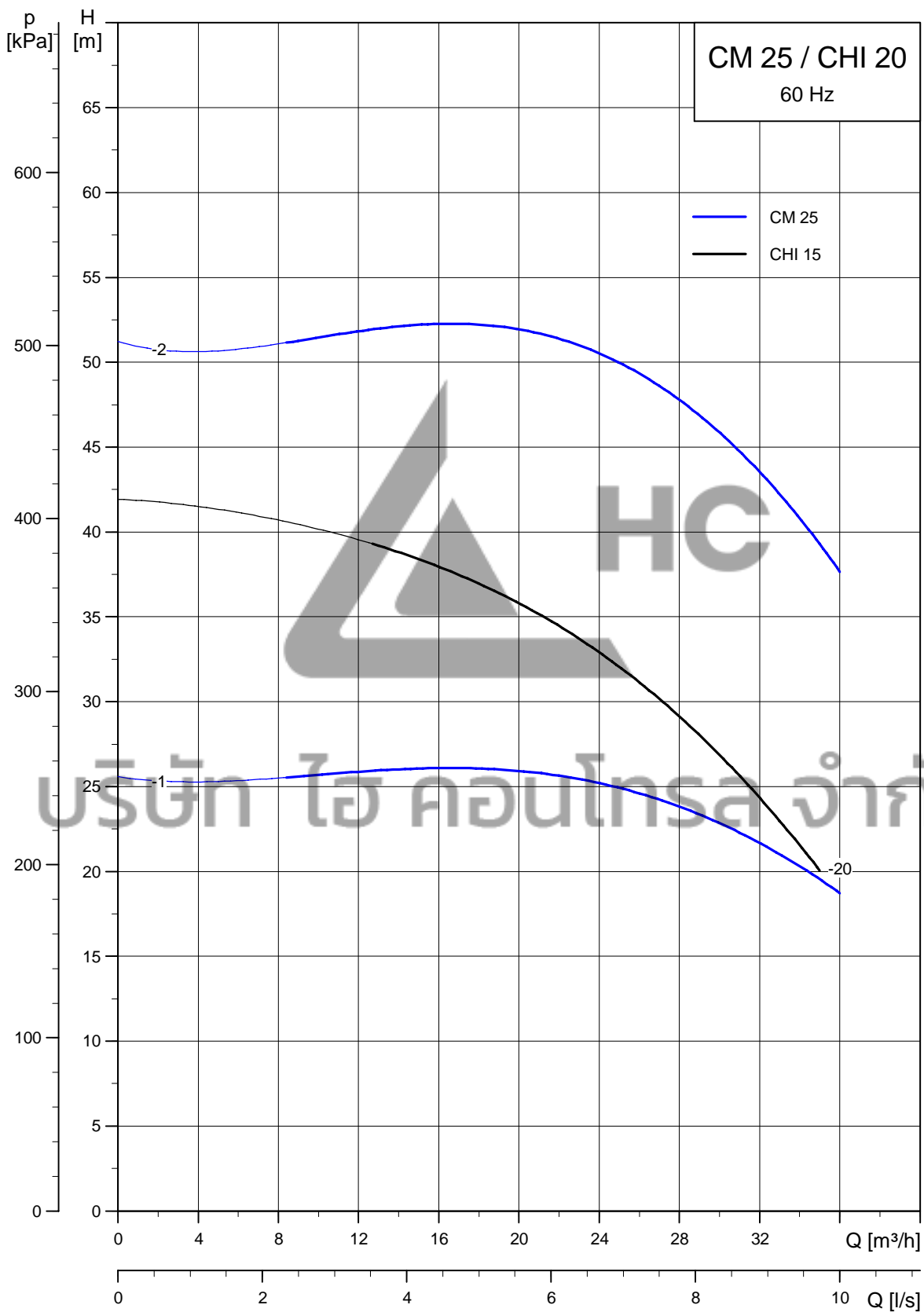


TM04 2215 2208



บริษัท ไฮ คอนโทรล จำกัด.

CHI 20 to CM 25



TM04 2216 2208



บริษัท ไฮ คอนโทรล จำกัด.



บริษัท ไฮ คอนโทรล จำกัด.



บริษัท ไฮ คอนโทรล จำกัด.



บริษัท ไฮ คอนโทรล จำกัด.



บริษัท ไฮ คอนโทรล จำกัด.

GB

Subject to alterations.