



## **CM/FM/FN Series**

Horizontal Stainless Steel  
Multistage Centrifugal Pump

# CM/FM/FN



## APPLICATION

- Building water supply and drainage
- Garden sprinkler system and fish farming
- Small air conditioner system or HVAC
- Pipeline pressurization and supporting equipment
- Industrial circulation system and booster system

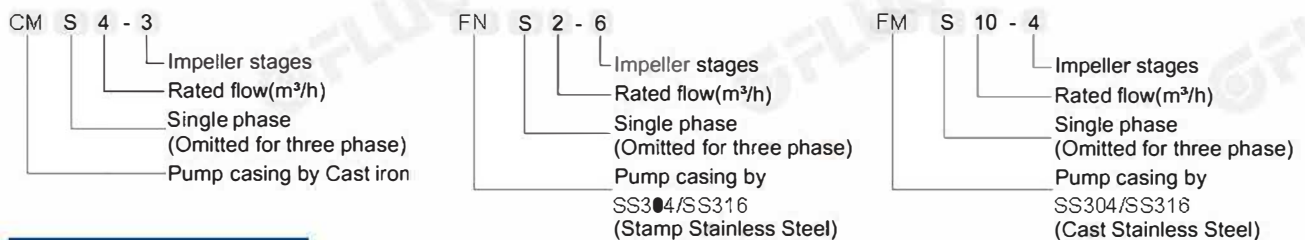
## PUMP

- Max. ambient temperature: 40 C
- Liquid temperature range: 0 C~70 C
- High temperature resistant model: Max. 105 C
- Max. operating pressure: 10 bar
- Max. Inlet pressure: 6 bar

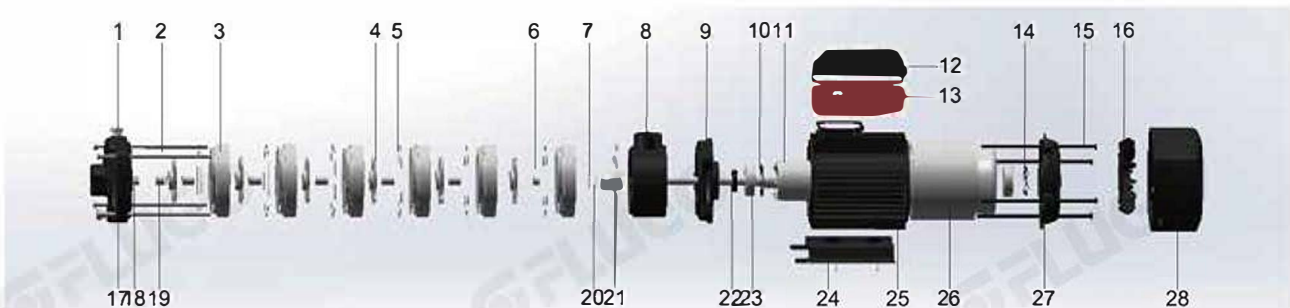
## MOTOR

- Protection class: IP55
- Insulation class: F
- Frequency range: 50/60Hz
- Nominal speed: 2900/3500 rpm

## MODEL INSTRUCTION

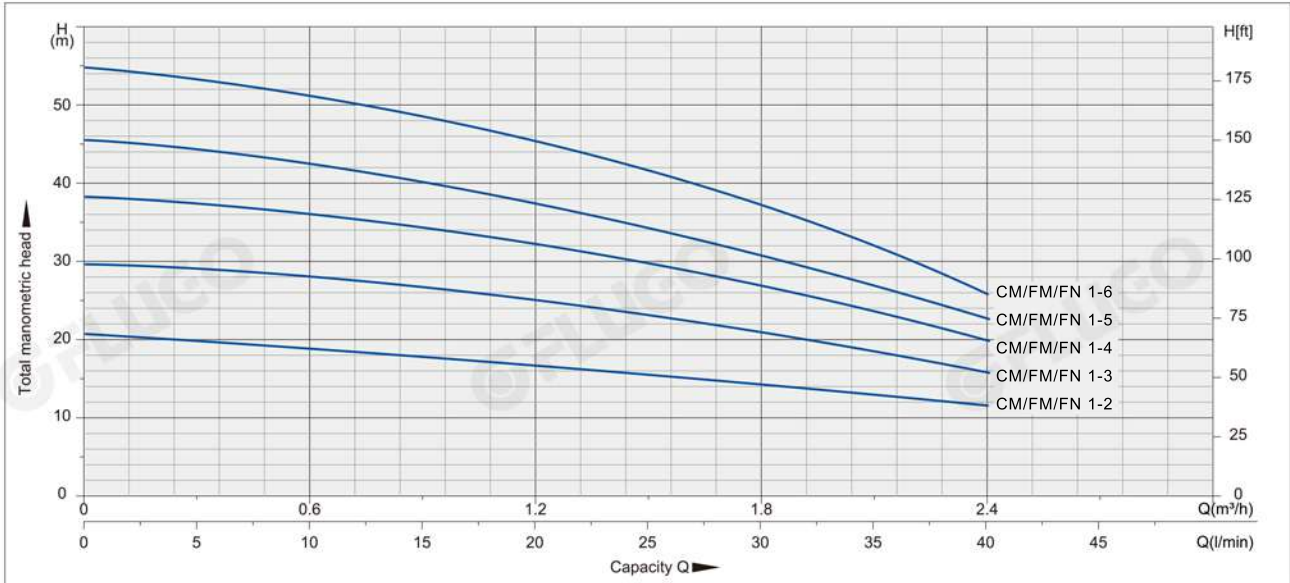


## MODEL ANALYSIS



NO.	NAME	NO.	NAME	NO.	NAME	NO.	NAME
1	G1/2 screw plug	8	pump body	15	hexagon head bolt	22	skeleton oil seal
2	M6-Hexagon socket bolt	9	front cover	16	fan	23	bearing
3	pilot fluid	10	axle ring	17	pump cover	24	bottom plate
4	impeller	11	rotor	18	self-locking nuts	25	base
5	gasket	12	terminal box cover	19	shaft cover	26	stator
6	shaft sleeve	13	terminal box holder	20	flat gasket	27	motor cover
7	shaft ring	14	wave gasket	21	mechanical seal	28	fan cover

## PERFORMANCE CURVES

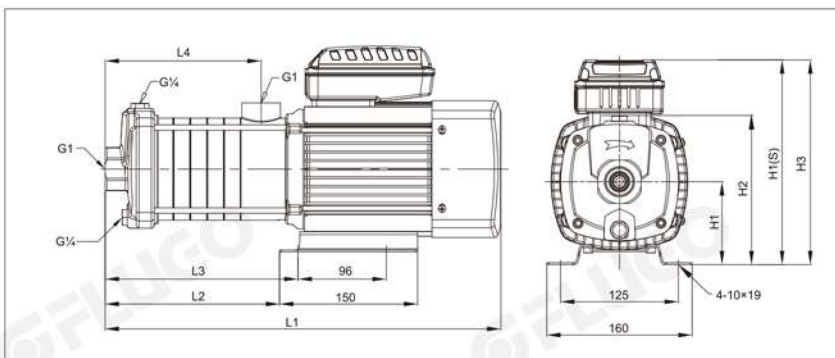


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	0.4	0.6	0.8	1	1.2	1.4	1.8	2	2.4
	(kW)	(HP)		7	10	13	17	20	23	30	33	40
CM/FM/FN 1-2	0.37	0.5	Hs	19.5	19	18.5	18	17.5	17	14	12	8
CM/FM/FN 1-3	0.37	0.5		29	28.5	26	25	24.5	23.5	19	16	11
CM/FM/FN 1-4	0.37	0.5		37	36	35	33	32	30	26	20	17
CM/FM/FN 1-5	0.37	0.5		43	42	41	40	36	34	27	22	20
CM/FM/FN 1-6	0.37	0.5		51	50	49	46	44	42	32	26	24

## INSTALLATION METHOD AND SIZE

H1(S): Single-phase Machine height H3: Three-phase Machine height

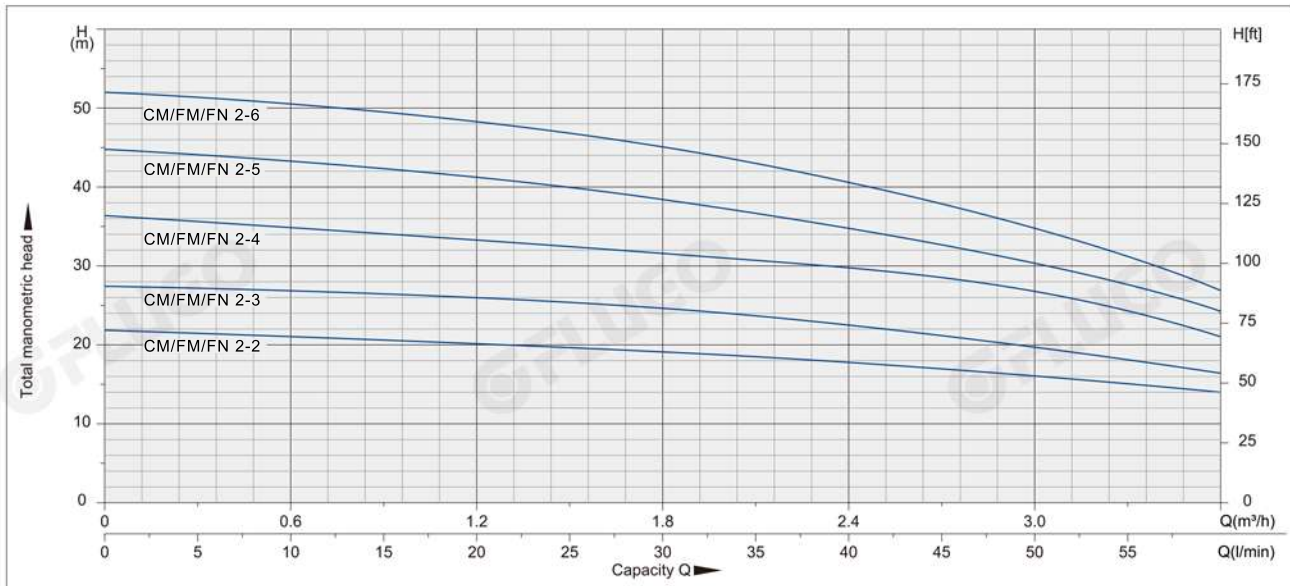


Model	L X W X H (mm)	G.W.[kg]
CMs1-2	401×220×275	10.6
CMs1-3	401×220×275	10.6
CMs1-4	419×220×275	11
CMs1-5	437×220×275	11.3
CMs1-6	455×220×275	11.5
FMs1-2	401×220×275	10
FMs1-3	401×220×275	10.3
FMs1-4	419×220×275	10.6
FMs1-5	437×220×275	10.7
FMs1-6	455×220×275	11
FNs1-2	401×220×275	9.6
FNs1-3	401×220×275	9.8
FNs1-4	419×220×275	10.2
FNs1-5	437×220×275	10.4
FNs1-6	455×220×275	10.6

Model	L1	L2	L3	L4	H1(S)	H3	H1	H2
CM/FM/FN 1-2	350	140	160	110	205	190	75	147
CM/FM/FN 1-3	350	140	160	110	205	190	75	147
CM/FM/FN 1-4	370	160	180	130	205	190	75	147
CM/FM/FN 1-5	390	180	200	150	205	190	75	147
CM/FM/FN 1-6	410	200	220	170	205	190	75	147

# CM/FM/FN 2

## PERFORMANCE CURVES

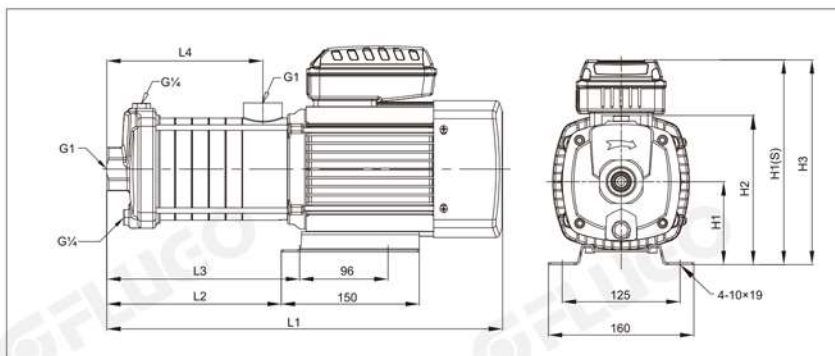


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	(kW)	(HP)		13	20	27	33	40	47	53	60	67
CM/FM/FN 2-2	0.37	0.5	Hs	19.5	19	18.5	18	17	16.5	14.5	13.5	12
CM/FM/FN 2-3	0.37	0.5		27	26	25	24	23	22	20	17	15
CM/FM/FN 2-4	0.55	0.75		36	35	34	32	31	29	27	23	20
CM/FM/FN 2-5	0.55	0.75		44	43	42	40	38	36	33	28.5	24
CM/FM/FN 2-6	0.75	1		53	51.5	48	47	45	41	36	31.5	27

## INSTALLATION METHOD AND SIZE

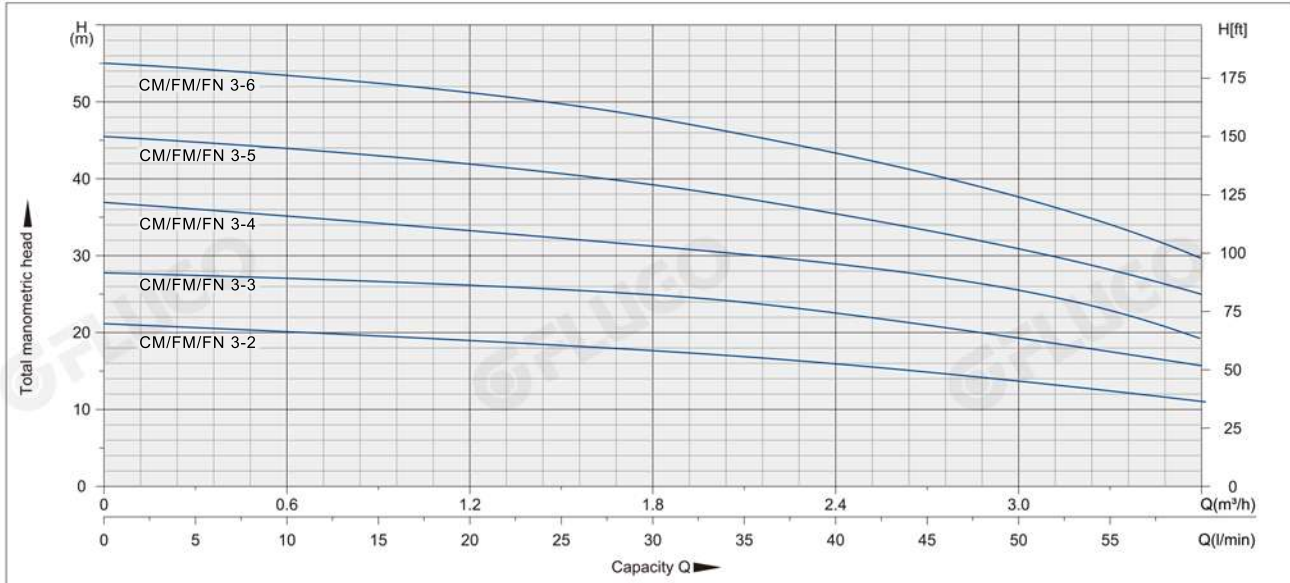
H1(S): Single-phase Machine height H3: Three-phase Machine height



Model	L X W X H (mm)	G.W. [kg]
CMs2-2	401x220x275	10.6
CMs2-3	401x220x275	10.6
CMs2-4	419x220x275	11.7
CMs2-5	437x220x275	12.1
CMs2-6	455x220x275	12.4
FMs2-2	401x220x275	10.2
FMs2-3	401x220x275	10.5
FMs2-4	419x220x275	11.5
FMs2-5	437x220x275	11.6
FMs2-6	455x220x275	12.5
FNs2-2	401x220x275	9.6
FNs2-3	401x220x275	9.6
FNs2-4	419x220x275	10.7
FNs2-5	437x220x275	11.5
FNs2-6	455x220x275	12.4

Model	L1	L2	L3	L4	H1(S)	H3	H1	H2
CM/FM/FN 1-2	350	140	160	110	205	190	75	147
CM/FM/FN 1-3	350	140	160	110	205	190	75	147
CM/FM/FN 1-4	370	160	180	130	205	190	75	147
CM/FM/FN 1-5	390	180	200	150	205	190	75	147
CM/FM/FN 1-6	410	200	220	170	205	190	75	147

## PERFORMANCE CURVES

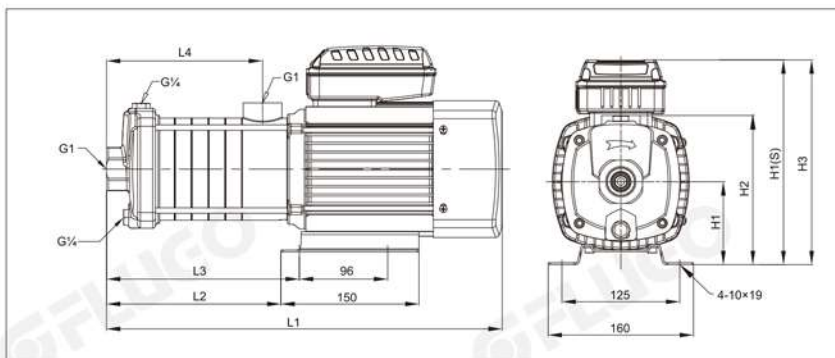


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	1	1.4	1.8	2.2	2.6	3	3.4	3.8	4.2
	(kW)	(HP)		16.7	23.3	30	36.7	43.3	50	56.7	63.3	70
CM/FM/FN 3-2	0.37	0.5	Hs	19.5	19	18.5	18	16.5	16	14	13.5	11
CM/FM/FN 3-3	0.37	0.5		27	26.5	25	24	22	21	19	17	14
CM/FM/FN 3-4	0.55	0.75		36	35	33	32	30	29	26	23	19
CM/FM/FN 3-5	0.55	0.75		44	43	42	40	36	34	32	29	23
CM/FM/FN 3-6	0.75	1		53	52	49	47	42	42	35	31	26

## INSTALLATION METHOD AND SIZE

H1(S): Single-phase Machine height H3: Three-phase Machine height

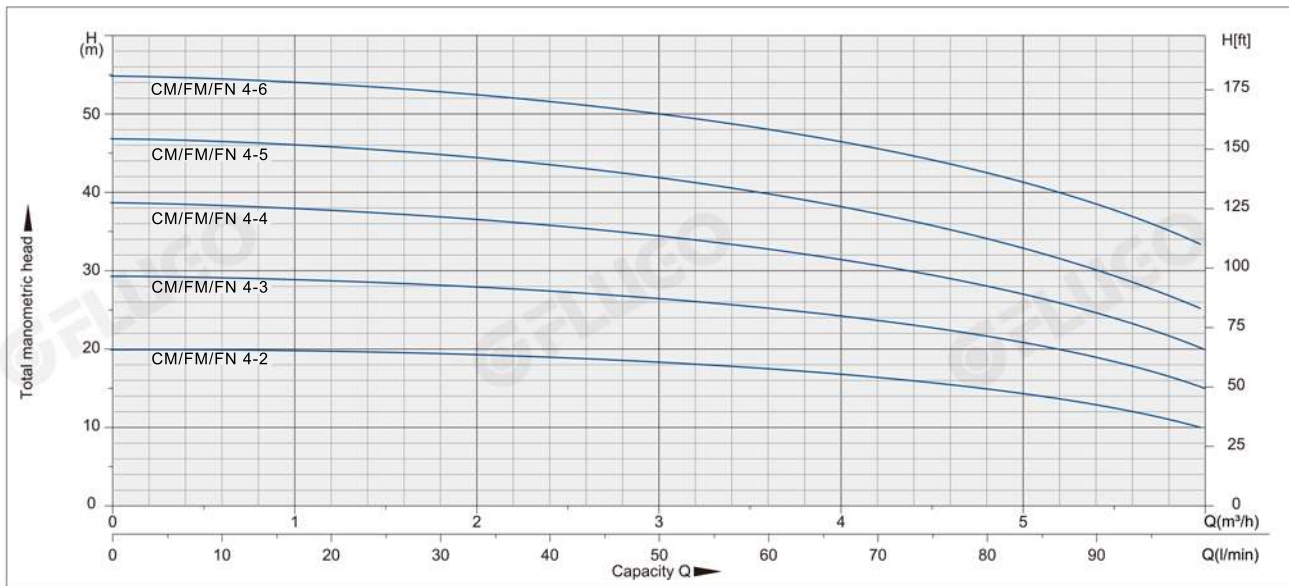


Model	L X W X H (mm)	G.W. [kg]
CMs3-2	401x220x275	10.5
CMs3-3	401x220x275	10.8
CMs3-4	419x220x275	11.7
CMs3-5	437x220x275	12.2
CMs3-6	455x220x275	13.3
FMs3-2	401x220x275	10.1
FMs3-3	401x220x275	10.5
FMs3-4	419x220x275	11
FMs3-5	437x220x275	12
FMs3-6	455x220x275	13.2
FNs3-2	401x220x275	9.5
FNs3-3	401x220x275	9.6
FNs3-4	419x220x275	9.7
FNs3-5	437x220x275	11
FNs3-6	455x220x275	12.6

Model	L1	L2	L3	L4	H1(S)	H3	H1	H2
CM/FM/FN 3-2	350	140	160	110	205	190	75	147
CM/FM/FN 3-3	350	140	160	110	205	190	75	147
CM/FM/FN 3-4	370	160	180	130	205	190	75	147
CM/FM/FN 3-5	390	180	200	150	205	190	75	147
CM/FM/FN 3-6	410	200	220	170	205	190	75	147

# CM/FM/FN 4

## PERFORMANCE CURVES

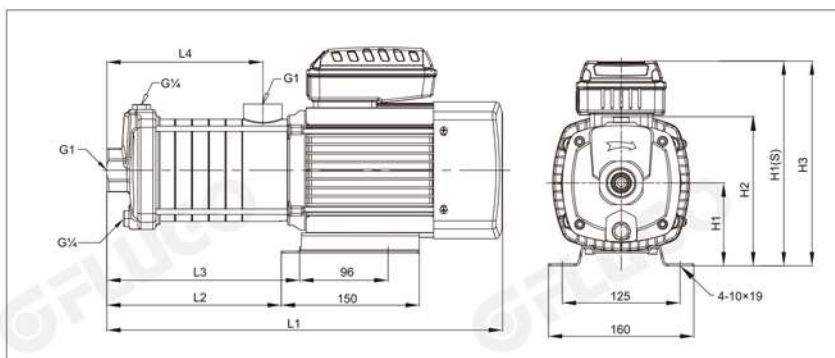


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	1	1.6	2.2	2.8	3.4	4	4.6	5.2	5.8	6
	(kW)	(HP)		17	27	37	47	57	67	77	87	97	100
CM/FM/FN 4-2	0.55	0.75	Hs	18.5	18	17	16	15.5	15	13.5	12	8	7
CM/FM/FN 4-3	0.55	0.75		29	28.5	28	26	25.5	25	23	21	16	14
CM/FM/FN 4-4	0.75	1		38	37	36	33	32	30	28	26	20	18
CM/FM/FN 4-5	1	1.3		47	46	45	43	41	40	36	34	28	25
CM/FM/FN 4-6	1.3	1.7		56.5	55	54	52	51	49	45	42	36	33

## INSTALLATION METHOD AND SIZE

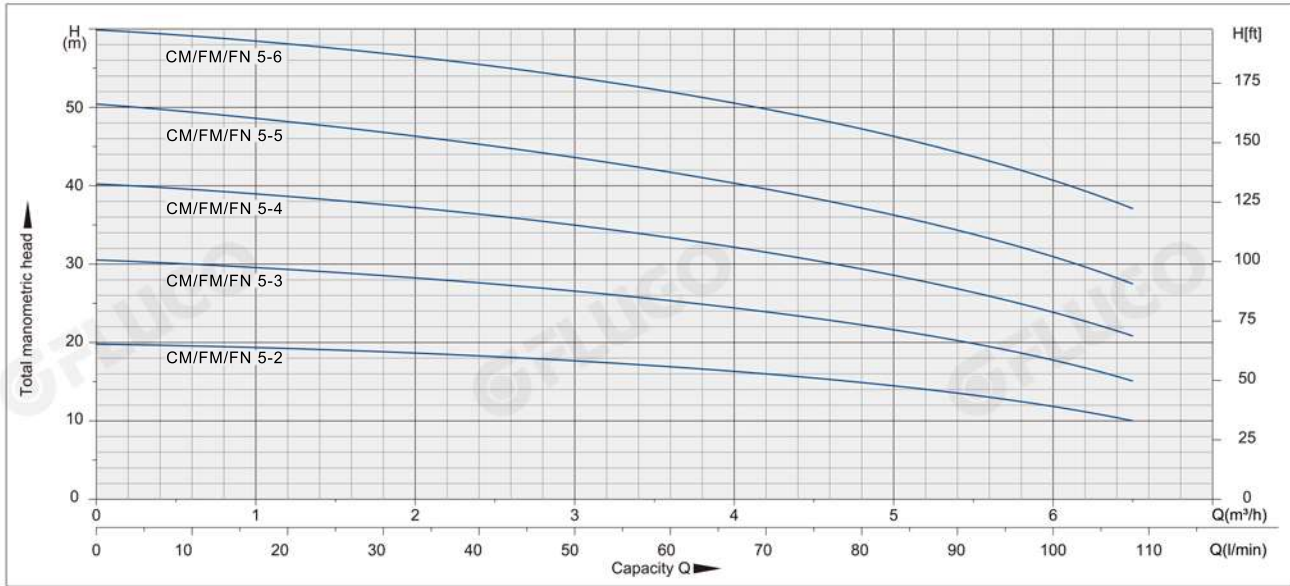
H1(S): Single-phase Machine height H3: Three-phase Machine height



Model	L X W X H (mm)	G.W. [kg]
CMs4-2	401×220×275	11.5
CMs4-3	401×220×275	11.4
CMs4-4	419×220×275	12.9
CMs4-5	455×220×275	15.2
CMs4-6	470×220×275	15.9
FMs4-2	401×220×275	11
FMs4-3	401×220×275	11.2
FMs4-4	419×220×275	12.1
FMs4-5	455×220×275	14.3
FMs4-6	470×220×275	15.8
FNs4-2	401×220×275	10.7
FNs4-3	401×220×275	10.9
FNs4-4	419×220×275	11.5
FNs4-5	455×220×275	14.3
FNs4-6	470×220×275	15.6

Model	L1	L2	L3	L4	H1(S)	H3	H1	H2
CM/FM/FN 4-2	350	140	160	110	205	190	75	147
CM/FM/FN 4-3	350	140	160	110	205	190	75	147
CM/FM/FN 4-4	370	160	180	130	205	190	75	147
CM/FM/FN 4-5	400	170	190	150	220	210	90	165
CM/FM/FN 4-6	420	190	210	170	220	210	90	165

## PERFORMANCE CURVES

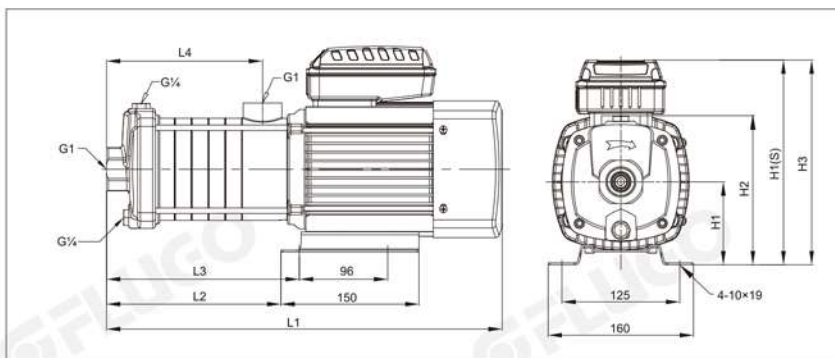


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	0.8	1.8	2.6	3.4	4.2	4.5	5	5.8	6.5
	(kW)	(HP)		13	30	43	57	70	75	83	97	108
CM/FM/FN 5-2	0.55	0.75	Hs	19	17	16	15.5	14	13.5	13	11	7
CM/FM/FN 5-3	0.55	0.75		30	28	27	25.5	24.5	23	22	20	14
CM/FM/FN 5-4	0.75	1		40	36	34	32	29	28	27	24	19
CM/FM/FN 5-5	1	1.3		49	45	43.5	41	39	36	35	32	24
CM/FM/FN 5-6	1.3	1.7		57	54	52	51	48	45	44	41	31

## INSTALLATION METHOD AND SIZE

H1(S): Single-phase Machine height H3: Three-phase Machine height

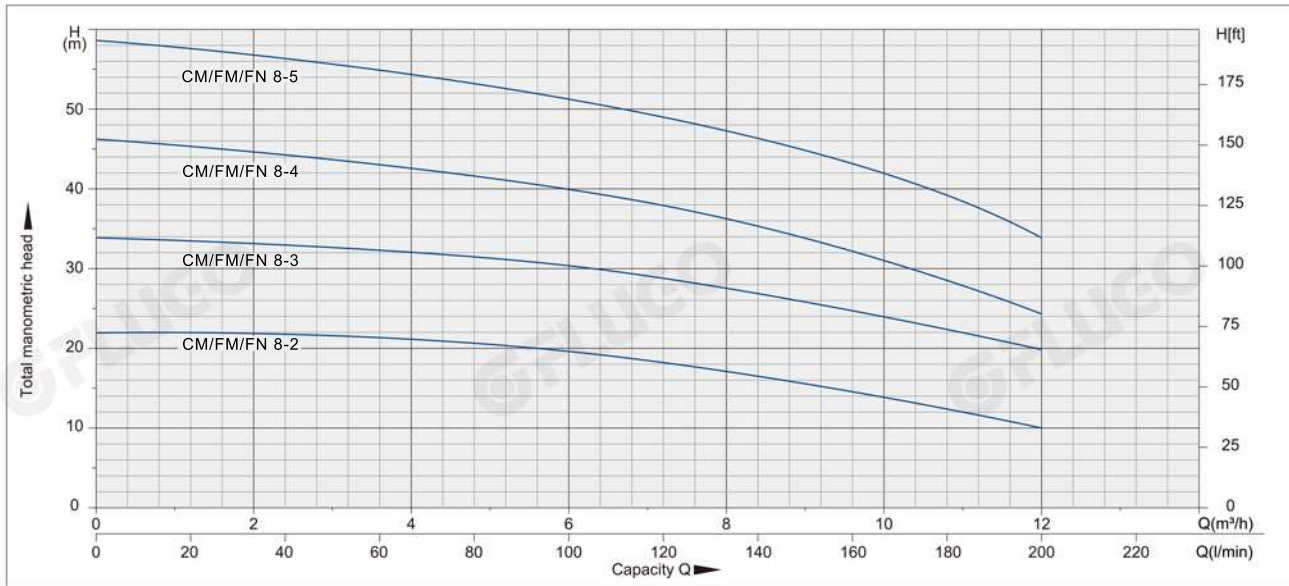


Model	L X W X H (mm)	G.W.[kg]
CMs5-2	401x220x275	11.5
FM5-2	401x220x275	10.9
FMs5-2	401x220x275	11
FNs5-2	401x220x275	10.7
CMs5-3	401x220x275	11.4
FMs5-3	401x220x275	11.2
FNs5-3	401x220x275	10.9
CMs5-4	419x220x275	12.9
FM5-4	419x220x275	11.9
FMs5-4	419x220x275	12.1
FNs5-4	419x220x275	11.5
CM5-5	455x220x275	15.2
CMs5-5	455x220x275	14.3
FMs5-5	455x220x275	14.3
FNs5-5	455x220x275	14.3
CM5-6	470x220x275	15.5
CMs5-6	470x220x275	15.9
FM5-6	470x220x275	15
FMs5-6	470x220x275	15.8
FN5-6	470x220x275	15
FNs5-6	470x220x275	15.6

Model	L1	L2	L3	L4	H1(S)	H3	H1	H2
CM/FM/FN 5-2	350	140	160	110	205	190	75	147
CM/FM/FN 5-3	350	140	160	110	205	190	75	147
CM/FM/FN 5-4	370	160	180	130	205	190	75	147
CM/FM/FN 5-5	400	170	190	150	220	210	90	165
CM/FM/FN 5-6	420	190	210	170	220	210	90	165

# CM/FM/FN 8

## PERFORMANCE CURVES

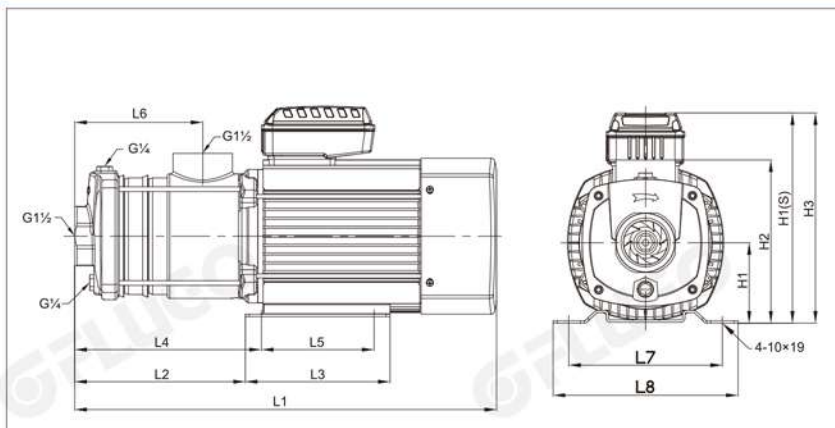


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	0	2	4	6	8	10	12
	(kW)	(HP)		0	33	67	100	133	167	200
CM/FM/FN 8-2	0.75	1	Hs	21	20.5	20	19.5	18	16	13
CM/FM/FN 8-3	1	1.5		32	31	30	29.5	27	24	19
CM/FM/FN 8-4	1.5	2		43	42	40.5	39.5	36	32	26
CM/FM/FN 8-5	2.2	3		54	53	51	50	45	40	32

## INSTALLATION METHOD AND SIZE

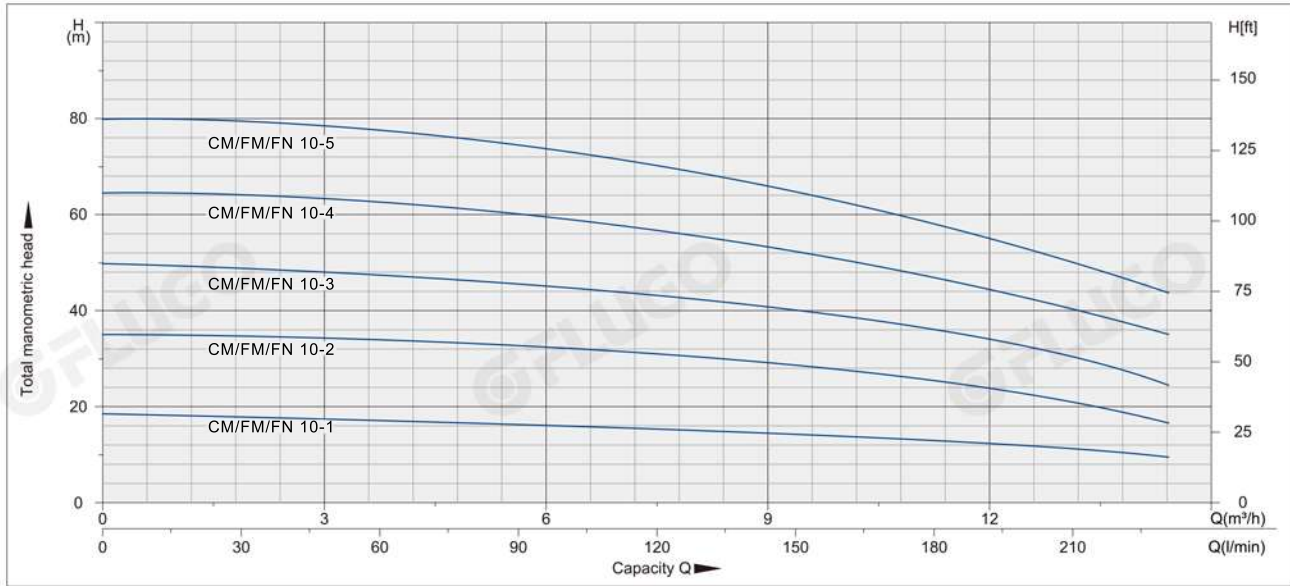
H1(S): Single-phase Machine height H3: Three-phase Machine height



Model	L X W X H (mm)	G.W.[kg]
CMs8-1	445x280x310	14.8
CMs8-2	445x280x310	19.4
CMs8-3	515x280x310	25.1
FMs8-1	445x280x310	14.9
FMs8-2	445x280x310	17.2
FMs8-3	515x280x310	23.7
FNs8-1	445x280x310	13.2
FNs8-2	445x280x310	17.1
FNs8-3	515x280x310	22.5
CM8-1	445x280x310	14.8
CM8-2	445x280x310	18.5
CM8-3	515x280x310	25.4
CM8-4	575x280x310	30.1
CM8-5	605x280x310	30.5
FM8-1	445x280x310	14.9
FM8-2	445x280x310	17.2
FM8-3	515x280x310	23.4
FM8-4	575x280x310	28.8
FM8-5	605x280x310	30
FN8-1	445x280x310	13.2
FN8-2	445x280x310	16.2
FN8-3	515x280x310	22.3
FN8-4	575x280x310	28
FN8-5	605x280x310	28.6

Model	L1	L2	L3	L4	L5	L6	L7	L8	H1(S)	H3	H1	H2
CM/FM/FN 8-2	400	175	150	195	96	125	125	160	220	210	90	165
CM/FM/FN 8-3	430	205	150	225	96	155	125	160	220	210	90	165
CM/FM/FN 8-4	515	235	180	255	140	185	165	200	235	225	90	180
CM/FM/FN 8-5	545	265	180	285	140	215	165	200	235	225	90	180

## PERFORMANCE CURVES

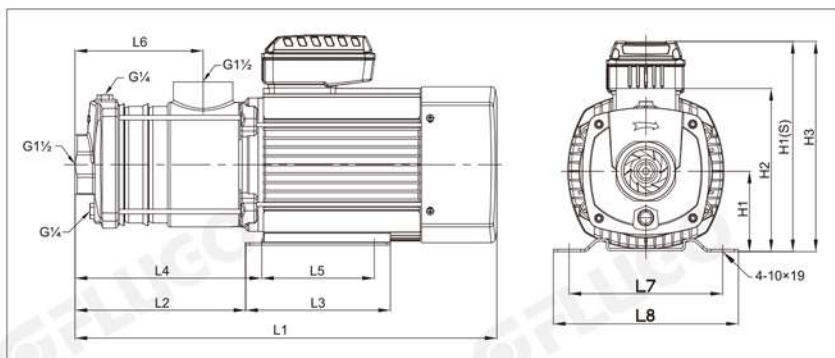


## TECHNICAL TABLE

Modle	Power		Q(m³/h) l/min	0	2	4	6	8	10	12	14
	(kW)	(HP)		0	33	67	100	133	167	200	233
CM/FM/FN 10-1	0.75	1	Hs	16	15.5	15	14.5	13.5	12	10.5	7.5
CM/FM/FN 10-2	1.3	1.7		32	31.5	31	29.5	27	25	21	16
CM/FM/FN 10-3	2.2	3		48	47.5	47	45.5	43	38	33	26
CM/FM/FN 10-4	3	4		64	63	62	60	56	51	44	33
CM/FM/FN 10-5	3	4		80	79	78	74	70	64	54	41

## INSTALLATION METHOD AND SIZE

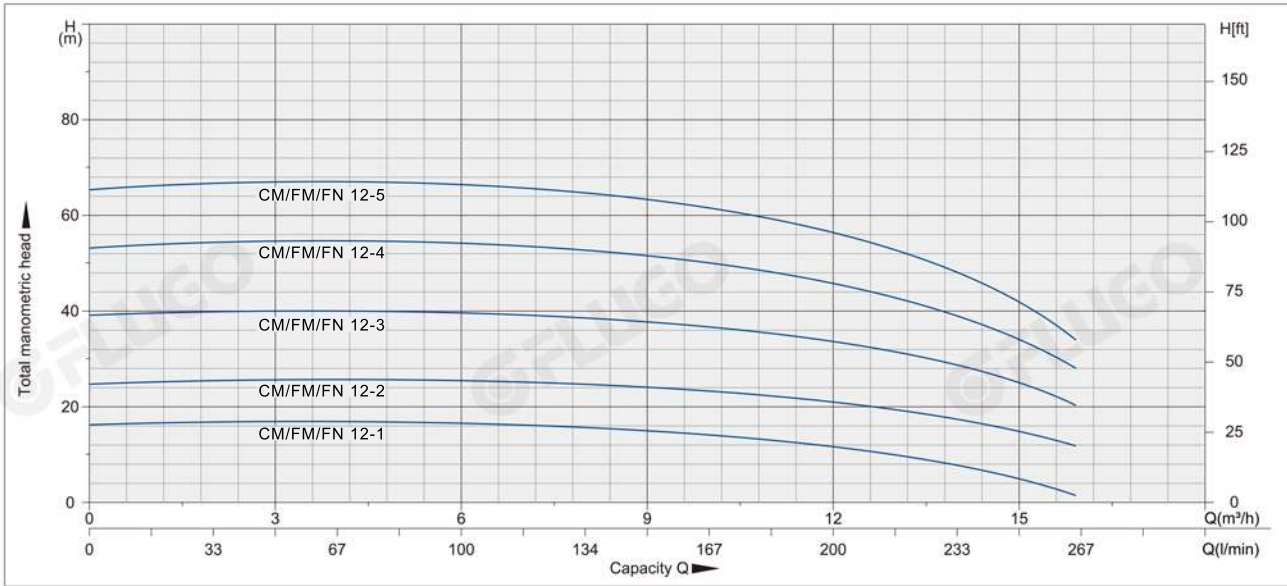
H1(S): Single-phase Machine height H3: Three-phase Machine height



Modle	L1	L2	L3	L4	L5	L6	L7	L8	H1(S)	H3	H1	H2
CM/FM/FN 10-1	400	175	150	195	96	125	125	160	220	210	90	165
CM/FM/FN 10-2	400	175	150	195	96	125	125	160	220	210	90	165
CM/FM/FN 10-3	485	205	180	225	140	155	165	200	235	225	90	180
CM/FM/FN 10-4	550	240	180	260	140	185	190	230	-	255	100	200
CM/FM/FN 10-5	580	270	180	290	140	215	190	230	-	255	100	200

Modle	L X W X H (mm)	G.W.[kg]
CMs10-1	445x280x310	14.8
CMs10-2	445x280x310	19.4
CMs10-3	515x280x310	25.1
FMs10-1	445x280x310	14.9
FMs10-2	445x280x310	17.2
FMs10-3	515x280x310	23.7
FNs10-1	445x280x310	13.2
FNs10-2	445x280x310	17.1
FNs10-3	515x280x310	22.5
CM10-1	445x280x310	14.8
CM10-2	445x280x310	18.5
CM10-3	515x280x310	25.4
CM10-4	575x280x310	30.1
CM10-5	605x280x310	30.5
FM10-1	445x280x310	14.9
FM10-2	445x280x310	17.2
FM10-3	515x280x310	23.4
FM10-4	575x280x310	28.8
FM10-5	605x280x310	30
FN10-1	445x280x310	13.2
FN10-2	445x280x310	16.2
FN10-3	515x280x310	22.3
FN10-4	575x280x310	28
FN10-5	605x280x310	28.6

## PERFORMANCE CURVES

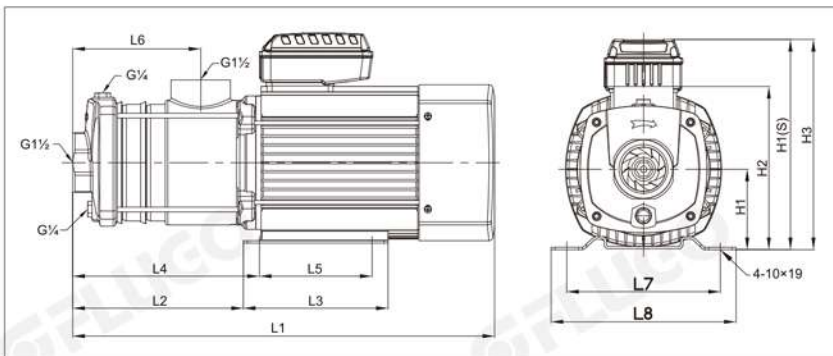


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	0	4	8	10	12	14	16
	(kW)	(HP)		0	67	133	167	200	233	266
CM/FM/FN 12-1	0.75	1	Hs	13.5	13.2	13	12.5	12	10	7.5
CM/FM/FN 12-2	1.3	1.7		27	26.5	26	25.5	24	20	15
CM/FM/FN 12-3	2.2	3		40	39.5	39	38	36	30	22
CM/FM/FN 12-4	3	4		54	53	52	50	47	39	29
CM/FM/FN 12-5	3	4		67	66.5	65	63	58	49	36

## INSTALLATION METHOD AND SIZE

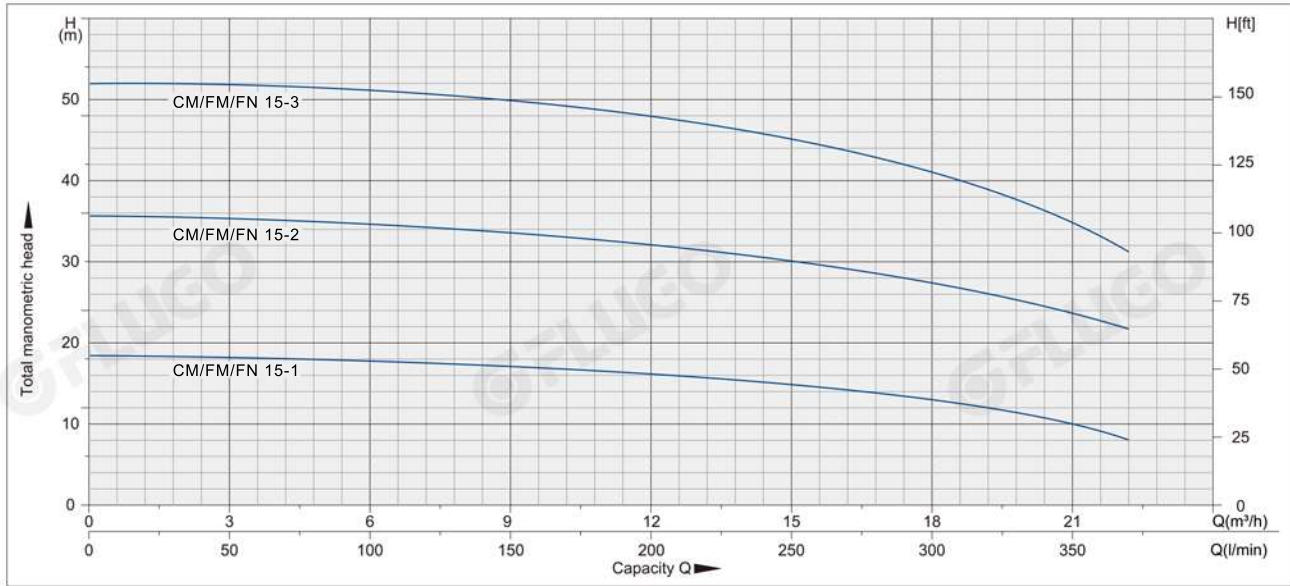
H1(S): Single-phase Machine height H3: Three-phase Machine height



Model	L X W X H (mm)	G.W.[kg]
CMs12-1	445x280x310	14.8
CMs12-2	445x280x310	19.4
CMs12-3	515x280x310	25.1
FMs12-1	445x280x310	14.9
FMs12-2	445x280x310	17.2
FMs12-3	515x280x310	23.7
FNs12-1	445x280x310	13.2
FNs12-2	445x280x310	17.1
FNs12-3	515x280x310	22.5
CM12-1	445x280x310	14.8
CM12-2	445x280x310	18.5
CM12-3	515x280x310	25.4
CM12-4	575x280x310	30.1
CM12-5	605x280x310	30.5
FM12-1	445x280x310	14.9
FM12-2	445x280x310	17.2
FM12-3	515x280x310	23.4
FM12-4	575x280x310	28.8
FM12-5	605x280x310	30
FN12-1	445x280x310	13.2
FN12-2	445x280x310	16.2
FN12-3	515x280x310	22.3
FN12-4	575x280x310	28
FN12-5	605x280x310	28.6

Model	L1	L2	L3	L4	L5	L6	L7	L8	H1(S)	H3	H1	H2
CM/FM/FN 12-1	400	175	150	195	96	125	125	160	220	210	90	165
CM/FM/FN 12-2	400	175	150	195	96	125	125	160	220	210	90	165
CM/FM/FN 12-3	485	205	180	225	140	155	165	200	235	225	90	180
CM/FM/FN 12-4	550	240	180	260	140	185	190	230	-	255	100	200
CM/FM/FN 12-5	580	270	180	290	140	215	190	230	-	255	100	200

## PERFORMANCE CURVES

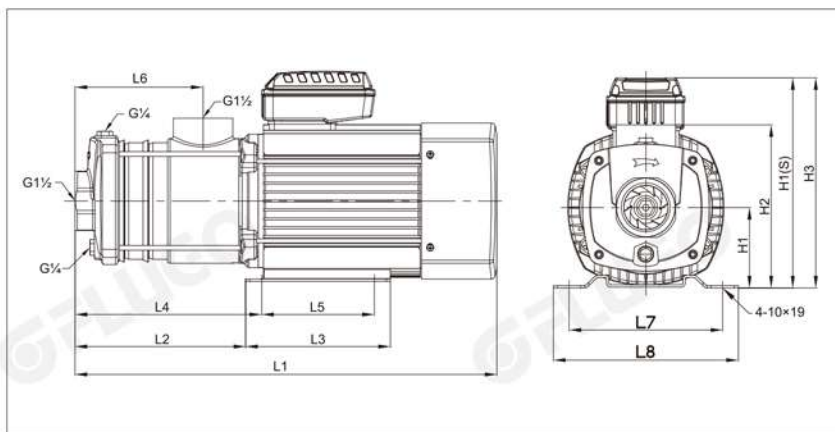


## TECHNICAL TABLE

Model	Power		Q(m³/h) l/min	4	6	8	10	12	15	18	20	22
	(kW)	(HP)		67	100	133	167	200	250	300	333	367
CM/FM/FN 15-1	1.3	1.7	Hs	17	16.8	16.5	16	15.5	15	13	10	8
CM/FM/FN 15-2	2.2	3		35	34.5	34	33.5	32	30	26	22	18
CM/FM/FN 15-3	4	5.5		50	49	48	47.5	46	45	40	34	28

## INSTALLATION METHOD AND SIZE

H1(S): Single-phase Machine height H3: Three-phase Machine height

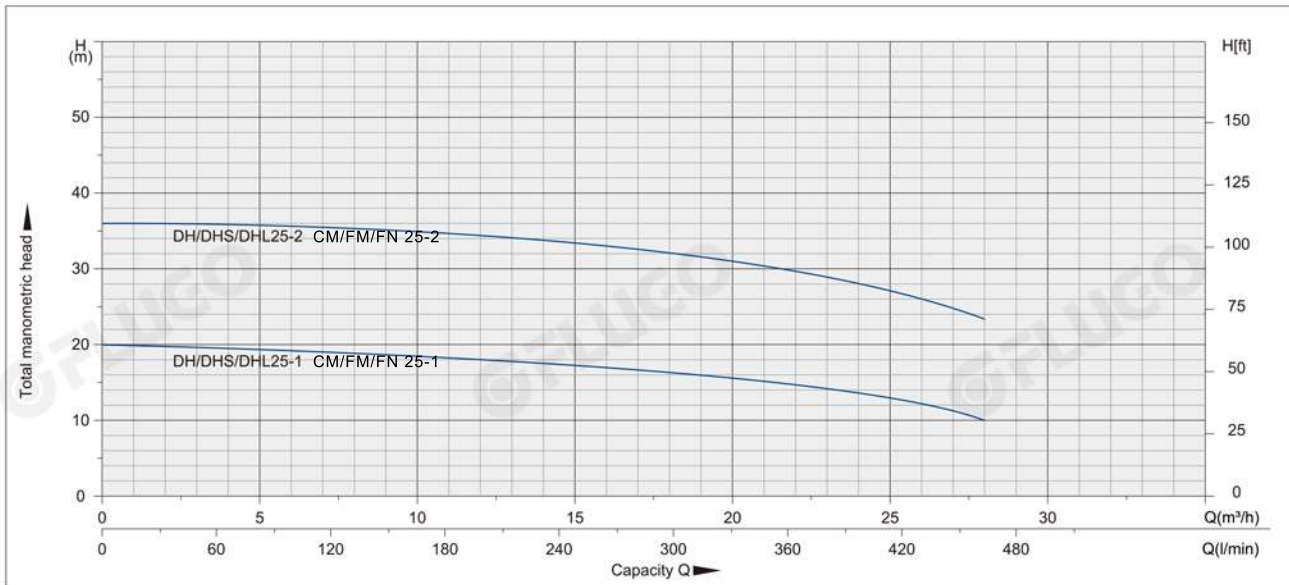


Model	L X W X H (mm)	G.W.[kg]
CMs15-1	445x280x310	19.9
CMs15-2	485x280x310	24.8
FMs15-1	445x280x310	19.9
FMs15-2	485x280x310	23
FNs15-1	445x280x310	16.5
FNs15-2	485x280x310	21.7
CM15-1	445x280x310	19
CM15-2	485x280x310	24.3
CM15-3	545x280x310	32.4
FM15-1	445x280x310	19
FM15-2	485x280x310	22.8
FM15-3	545x280x310	30.8
FN15-1	445x280x310	15.6
FN15-2	485x280x310	21.5
FN15-3	545x280x310	30

Model	L1	L2	L3	L4	L5	L6	L7	L8	H1(S)	H3	H1	H2
CM/FM/FN 15-1	410	175	150	195	96	130	125	160	220	210	90	200
CM/FM/FN 15-2	460	175	180	195	140	130	165	200	235	225	90	180
CM/FM/FN 15-3	525	210	180	235	140	160	190	230	-	255	100	200

# CM/FM/FN 25

## PERFORMANCE CURVES

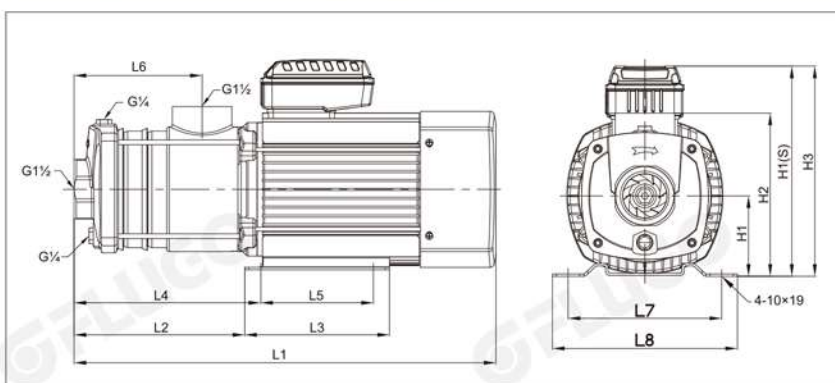


## TECHNICAL TABLE

Modle	Power		Q(m³/h) l/min	8	10	12	16	20	22	24	26	28
	(kW)	(HP)		133	167	200	267	333	367	400	433	467
CM/FM/FN 25-1	2.2	3	H(m)	17.5	17	16.5	16	15	14.5	14	12	10
CM/FM/FN 25-2	4	5.5		34	33.5	33	32	31	30	28	25	22

## INSTALLATION METHOD AND SIZE

H1(S): Single-phase Machine height H3: Three-phase Machine height



Modle	L X W X H (mm)	G.W.[kg]
CMs25-1	485x280x310	24.6
FMs25-1	485x280x310	22.8
FNs25-1	485x280x310	21.4
CM25-1	485x280x310	24.4
CM25-2	515x280x310	30.2
FM25-1	485x280x310	22.6
FM25-2	515x280x310	30.2
FN25-1	485x280x310	21.2
FN25-2	515x280x310	29

Modle	L1	L2	L3	L4	L5	L6	L7	L8	H1(S)	H3	H1	H2
CM/FM/FN 25-1	460	175	180	195	140	130	160	200	235	225	90	180
CM/FM/FN 25-2	500	180	180	205	140	130	190	230	-	255	100	200