



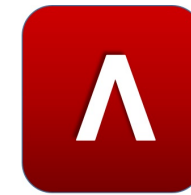
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AMEGA PUMPS



PAC SERIES

Close Coupled Centrifugal Pump (DIN24255/ESBN 733 STD)



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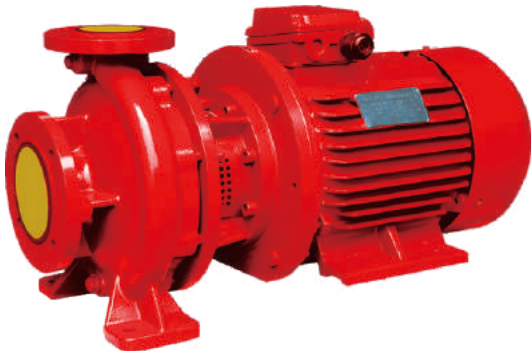
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DESIGNED BY AMEGA
PUMPS - MOTORS - SYSTEMS



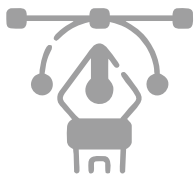
Design & Features

The PAC series pump are derived from PA series according to the European standard DIN24255/BSEN733 of performance

Pump shaft & motor shaft are close-coupled design. This way of coupling ensures the alignment of pump and motor, There is no common shaft for motor and pump. Pump impeller runs in good balance .Therefore pump would be kept very well in operation.

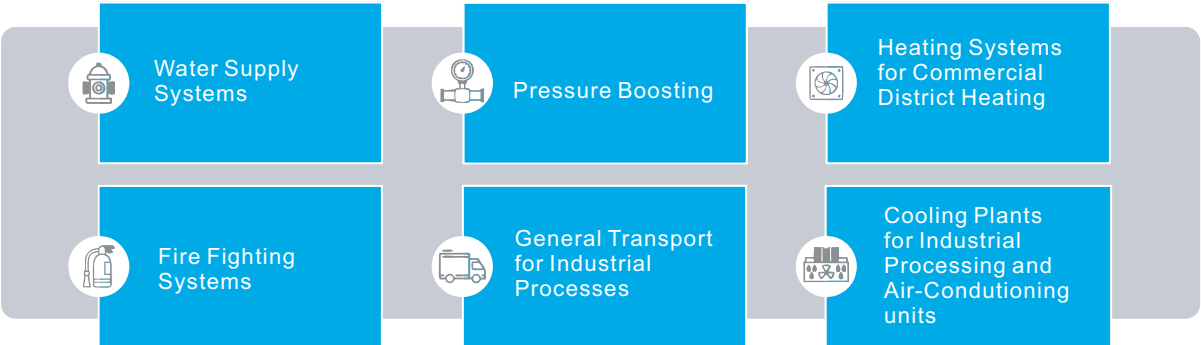
The PAC series designed to be driven by IEC standard motor. Compared by PA pump direct coupled with motor, PAC series are much shorter in length thus takes less space to install; and they also can be adjusted into different performance levels through impeller trimming as PA series pump.

Design

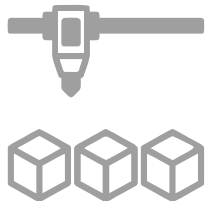


Design	Performance and dimension as per BSEN 733 / DIN24255
Structure	Horizontal ,End suction, Single suction,Volute casing
DN(mm)	Suction size: 50~300, Discharge size: 32~250
Flange	DIN 2501,PN16

Applications



Material

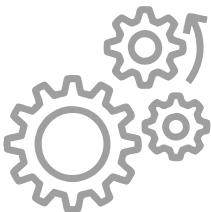


Pump parts	Material
Casing / Impeller	Cast iron, Stainless steel
Shaft	Stainless steel
Shaft seal	Mechanical Seal
Bearing lubrication	Grease Life
Bearing Brand	NTN

Model Designation(Examples): PAC 65-16-7.5/2

PAC	65	16	7.5	2
Pump Series	Discharge(mm)	Impeller Nominal Diameter(cm)	Motor power (Kw)	Motor Speed (2Pole or 4Pole)

Operating Data



Speed	Up to 3600rpm
Flow Rate(Q)	Up to 1100m3/h-1450rpm 1600m3/h-1750rpm
Head(H)	Up to 160m
Pressure	Up to PN16
Liquid Temperature	Up to 105 C

The Close Coupled pumps of the PAC series have been constructed as floor space saving easy-to-install pumping units, The package unit is used when clear resp. turbid liquids without any solid particles must be handled without problem.

The combination of:

- performance and connection sizes DIN 24255 / EN 733
- construction type: package unit with standard IEC motor with Frame B35
- material: Grey cast iron, stainless steel SS304/SS316 ,Duplex SS

Design

Single-stage pumping units of compact design with nominal performances and flange connection size according to DIN 24255 /EN 733.

There is no common shaft for motor and pump. The motors used are of the IEC standard type listed. Thanks to the process design, it is possible to withdraw the whole insert assembly without removing the casing of the pump from the piping system.

The individual shaft of the unit connected by a plug-in coupling facilitate the dismantling or the replacement of the motor without affecting the pump.

the programme comprises 50 pump sizes, From pump model PAC32-13 to size PAC250-40

Construction

Casing pressure: Up to 16Bar

Please note:

Technical rules and safety regulations. Shaft sealing:

The shaft sealing is a single standard mechanical seal, flushed from internal source, uncooled and unbalanced.

Casing pressure = inlet pressure plus delivery head + zero flow

Position of the branches:

Suction branch axial, discharge branch pointing radially upwards.

Flanges: The flanges correspond to DIN 2533/PN 16;

Bearing:

Two grease-lubricated antifriction bearings according to DIN 625 in the motor, one antifriction bearing grease-lubricated for service life according to DIN 625 arranged in the Adapter.

Sense of rotation:

Clockwise when looking at the pump from the drive end.

Shaft sealing:

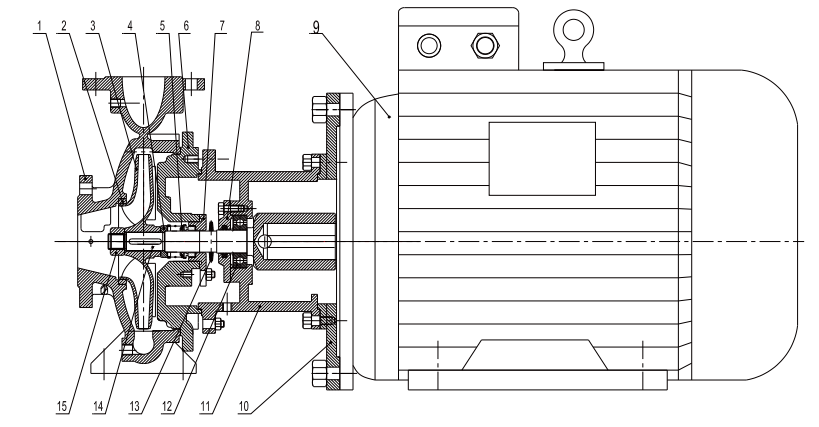
The shaft sealing is a single standard mechanical seal, flushed from internal source, uncooled and unbalanced.



Section Drawing

Pump with Single mechanical seal

S/N	Part Name
1	Pump Casing
2	Wear Ring
3	Impeller
4	Shaft spacer
5	Mechanical Seal
6	Casing Cover
7	Seal Gland
8	Bearing Cover
9	IEC-B35 Standard motor
10	Adapter Flange
11	Adapter
12	Bearing
13	Thrower
14	Pump Shaft
15	Impeller Nut



STANDARD CONSTRUCTION

Part No	Parts name	Fitted Pump standard material			
		G1	G2	S304 /S316	D2205 / D2507
1	Pump Casing	Cast Iron	Cast Iron	Stainless Steel 304 SS / 316 SS	Duplex SS2205 SS /2507 SS
3	Impeller	Cast Iron	Stainless Steel 304 SS	Stainless Steel 304 SS / 316 SS	Duplex SS2205 SS /2507 SS
5	Mechanical seal	Carbon/Cermical-Viton		Sic/Carbon-Viton	
6	Casing cover	Cast Iron	Cast Iron	Stainless Steel 304 SS / 316 SS	Duplex SS2205 SS /2507 SS
11	Adapter	Cast Iron	Cast Iron	Cast Iron	Cast Iron
14	Shaft	Stainless Steel 420 SS	Stainless Steel 420 SS	Stainless Steel 304 SS / 316 SS	Duplex SS2205 SS /2507 SS

Other material available upon request,pls contact Preeminence

Drive Motor:

1.By customary IEC standard electric motors, type IM B 35 resp.

2.For the determination of the drive power we recommend the following additional power:

-up to 4 kW: 25 % ;

-4 up to 7,5 kW: 20 % ;

-7,5 up to 37 kW: 15 %

-Above 37kw : 10%

Please note: The max. motor power allowed for some construction sizes as shown in the individual curves

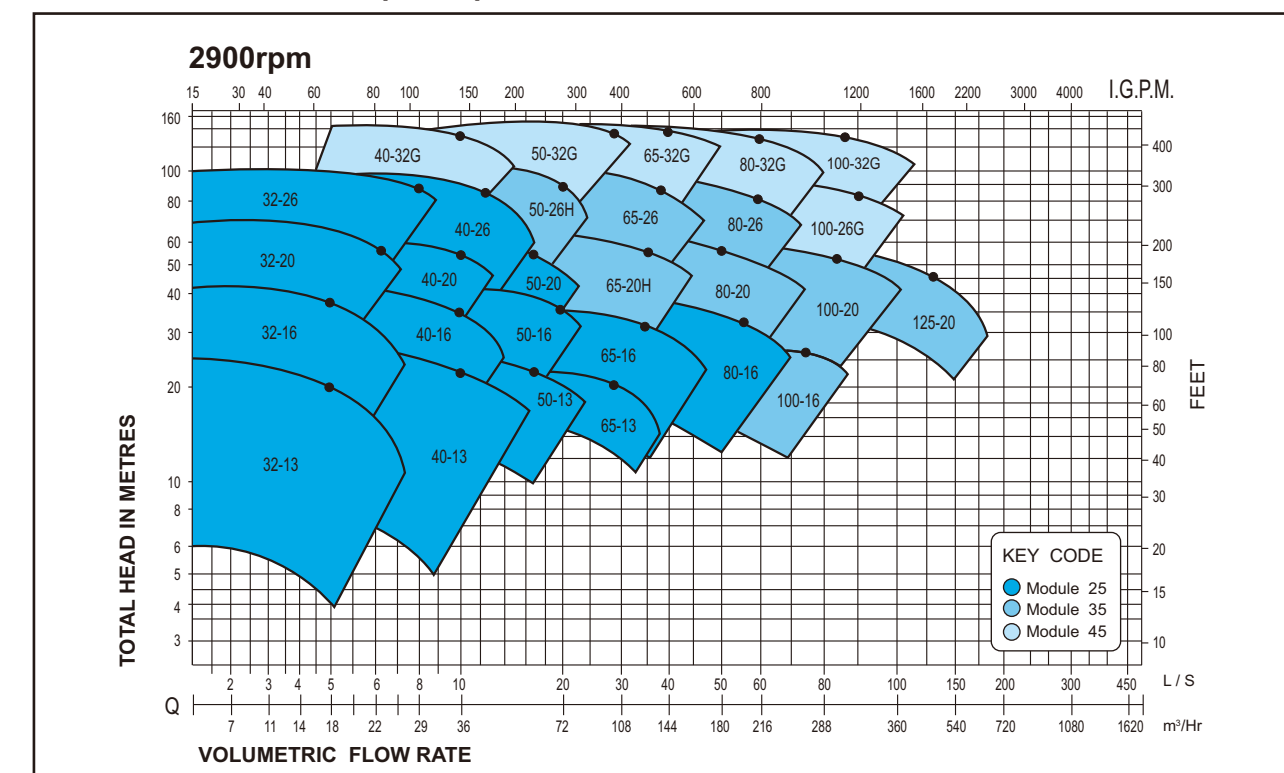


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Flange Connecting Dimension(ISO 2084,PN16)

DN	ød	øk	ØD	n	øS
32	73	100	140	4	18
40	83	110	150	4	18
50	98	125	165	4	18
65	118	145	185	4	18
80	133	160	200	8	18
100	153	180	220	8	18
125	183	210	250	8	18
150	209	240	285	8	22
200	264	295	340	12	22
250	320	355	405	12	26
300	375	410	460	12	26

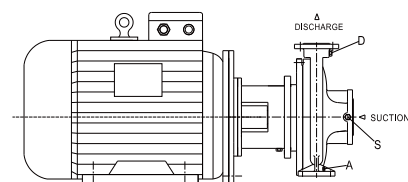
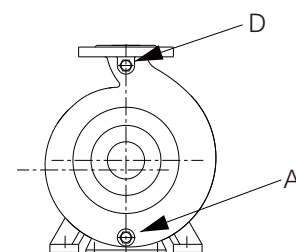
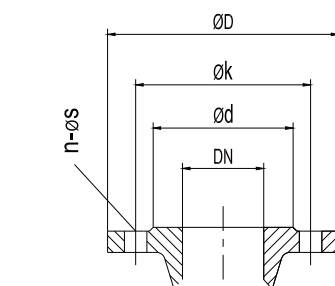
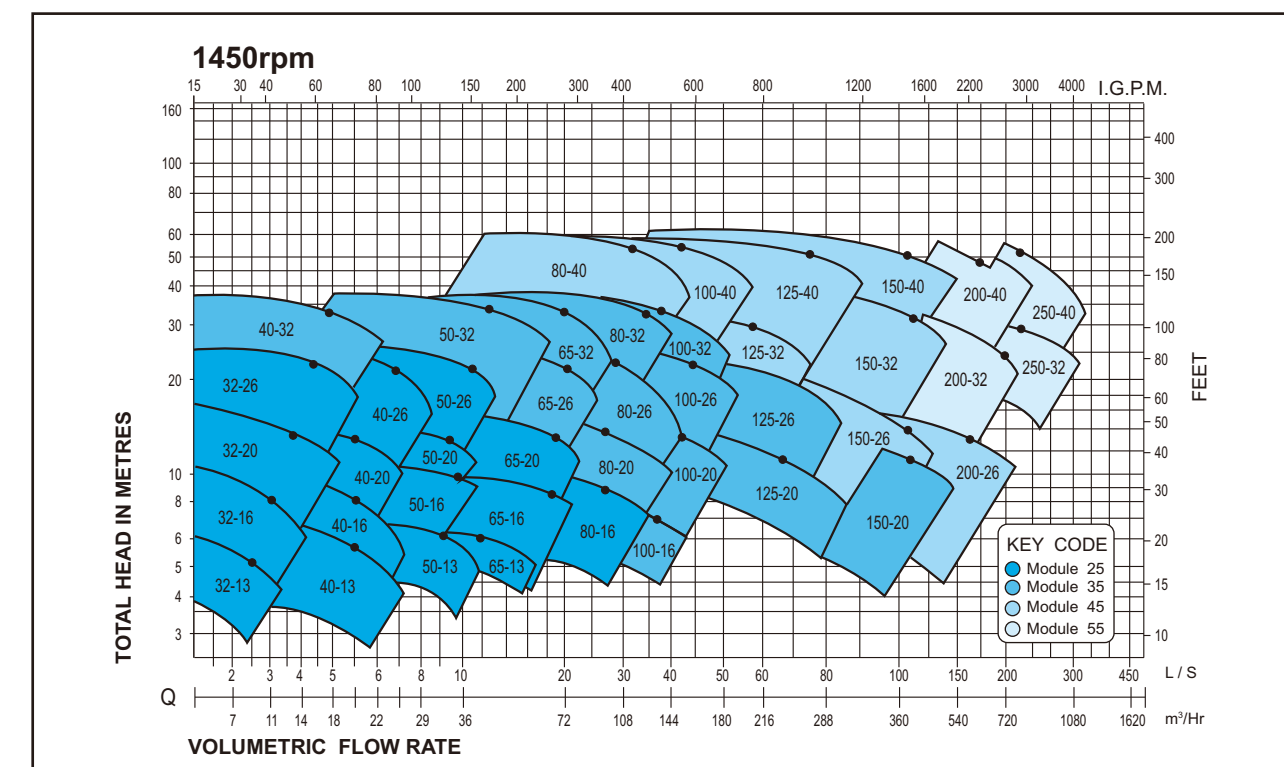
Performance Chart (50Hz)



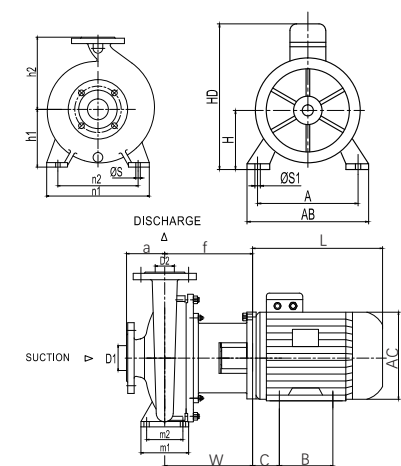
Service Connections

Pump Model	A	D	S
	Casing Drain	Gauge Drain	Gauge Drain
32-13	1/4	1/4	1/4
32-16	1/4	1/4	1/4
32-20	3/8	1/4	1/4
32-26	3/8	1/4	1/4
40-13	1/4	1/4	1/4
40-16	3/8	1/4	1/4
40-20	3/8	1/4	1/4
40-26	3/8	1/4	1/4
40-32	3/8	1/4	1/4
40-32G	3/8	1/4	1/4
50-13	1/4	1/4	1/4
50-16	3/8	1/4	1/4
50-20	3/8	1/4	1/4
50-26	3/8	1/4	1/4
50-26G	3/8	1/4	1/4
50-32	3/8	1/4	1/4
50-32G	3/8	1/4	1/4
65-13	3/8	1/4	1/4
65-16	3/8	1/4	1/4
65-20	3/8	1/4	1/4
65-20G	3/8	1/4	1/4
65-26	3/8	1/4	1/4
65-32	3/8	1/4	1/4
65-32G	3/8	1/4	1/4
80-16	3/8	1/4	1/4

Pump Model	A	D	S
	Casing Drain	Gauge Drain	Gauge Drain
80-20	3/8	1/4	1/4
80-26	3/8	1/4	1/4
80-32	3/8	1/4	1/4
80-32G	3/8	1/4	1/4
80-40	3/8	1/4	1/4
100-16	3/8	1/4	1/4
100-20	3/8	1/4	1/4
100-26	3/8	1/4	1/4
100-26G	3/8	1/4	1/4
100-32	3/8	1/4	1/4
100-32G	3/8	1/4	1/4
100-40	3/8	1/4	1/4
125-20	3/8	1/4	1/4
125-26	3/8	1/4	1/4
125-32	3/8	1/4	1/4
125-40	3/8	1/4	1/4
150-20	3/8	1/4	1/4
150-26	3/8	1/4	1/4
150-32	3/8	1/4	1/4
150-40	3/8	1/4	1/4
200-26	3/8	1/4	1/4
200-32	3/8	1/4	1/4
200-40	3/8	1/4	1/4
250-32	3/8	1/4	1/4
250-40	3/8	1/4	1/4



50HZ-2900rpm



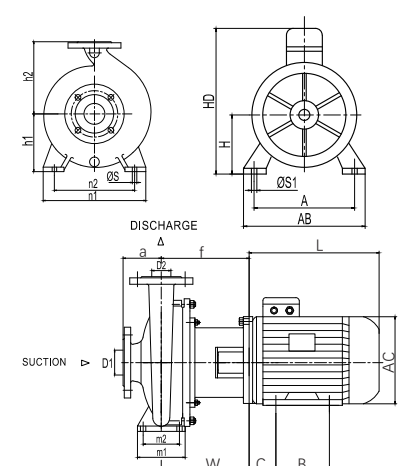
Motor Dimension

Motor Frame	KW/2P	H	A	B	C	ØS1	AB	AC	HD	L
80	1.1	80	125	100	50	10	165	175	220	255
90S	1.5	90	140	100	56	10	180	195	250	265
90L	2.2	90	140	100	56	10	180	195	250	290
100L	3	100	160	140	63	12	205	215	270	325
112M	4	112	190	140	70	12	230	240	300	360
132S	5.5	132	216	140	89	12	270	275	345	390
132S	7.5	132	216	140	89	12	270	275	345	390
160M	11	160	254	210	108	14.5	320	330	420	505
160M	15	160	254	210	108	14.5	320	330	420	505
160L	18.5	160	254	254	108	14.5	320	330	420	560
180M	22	180	279	241	121	14.5	355	380	455	590
200L	30	200	318	305	133	18.5	375	420	545	660
200L	37	200	318	305	133	18.5	375	420	545	660
225M	45	225	356	311	149	18.5	435	470	555	705
250M	55	250	406	349	168	24	490	510	615	770
280S	75	280	457	368	190	24	550	580	680	845
280M	90	280	457	410	190	24	550	580	680	895
315S	110	315	508	406	216	28	635	645	845	1100
315M	132	315	508	457	216	28	635	645	845	1130

Pump Dimension

Pump Model	Motor /Kw n=2900rpm				D2	D1	a	f	h1	h2	m1	m2	n1	n2	ØS	W
32-13	1.1	1.5	2.2		32	50	80	227	112	140	100	70	190	140	14	227
32-16	2.2	3	4		32	50	80	227	132	160	100	70	240	190	14	227
	5.5				32	50	80	247	132	160	100	70	240	190	14	247
32-20	5.5	7.5			32	50	80	247	160	180	100	70	240	190	14	247
	11							277								
32/26	11	15	18.5		32	50	100	277	180	225	125	95	320	250	14	277
40/13	1.5	2.2	3	4	40	65	80	227	112	140	100	70	210	160	14	227
40/16	3	4			40	65	80	227	132	160	100	70	240	190	14	227
	5.5	7.5						247								
40/20	5.5	7.5			40	65	100	247	160	180	100	70	265	212	14	247
	11							277								
40/26	15	18.5	22		40	65	100	277	180	225	125	95	320	250	14	277
40/32	30	37	45		40	65	125	298	200	250	125	95	345	280	14	298
50-13	3	4			50	65	100	227	132	160	100	70	240	190	14	227
	5.5	7.5						247								
50-16	5.5	7.5			50	65	100	247	160	180	100	70	265	212	14	247
	11							277								
50-20	11	15	18.5		50	65	100	277	160	200	100	70	265	212	14	277
50-26	22				50	65	100	277	180	225	125	95	320	250	14	277
50-26G	30	37			50	65	100	298	180	225	125	95	320	250	14	298
50-32	37	45			50	65	125	298	225	280	125	95	345	280	14	268
	55	75						328								
65-13	4				65	80	100	227	160	180	125	95	280	212	14	227
	5.5	7.5						247								
65-16	7.5				65	80	100	247	160	200	125	95	280	212	14	247
	11	15						277								
65-20	15	18.5	22		65	80	105	277	180	225	125	95	320	250	14	277
65-20G	30				65	80	105	293	180	225	125	95	320	250	14	293
65-26	30	37	45		65	80	100	298	200	250	160	120	360	280	18	298
	55							328								
65-32	45				65	80	125	298	225	280	160	120	400	315	18	298
	55	75						328								
65-32G	90				65	80	125	340	225	280	160	120	400	315	18	340
80-16	11	15	18.5	22	80	100	125	277	180	225	125	95	320	250	14	277
80-20	30	37	45		80	100	125	298	180	250	125	95	345	280	14	298
80-26	45				80	100	125	298	200	280	160	120	400	315	18	298
	55	75						328								
80-32G	90	110	132		80	100	125	340	200	280	160	120	400	315	18	340
100-16	15	18.5	22	30	100	125	125	298	200	250	160	120	360	280	18	298
100-20	37	45			100	125	125	298	200	280	160	120	360	280	18	298
	55	75						328								
100-26	75				100	125	140	328	225	280	160	120	400	315	18	328
100-26G	90	110	132		100	125	140	340	225	280	160	120	400	315	18	340
125-20	55	75			125	150	145	328	250	315	160	120	400	315	18	328

50HZ-1450rpm



Motor Dimension

Motor Frame	KW/4P	H	A	B	C	ØS1	AB	AC	HD	L
80	0.75	80	125	100	50	10	165	175	220	255
90S	1.1	90	140	100	56	10	180	195	250	265
90L	1.5	90	140	100	56	10	180	195	250	290
100L	2.2	100	160	140	63	12	205	215	270	325
100L	3	100	160	140	63	12	205	215	270	325
112M	4	112	190	140	70	12	230	240	300	360
132S	5.5	132	216	140	89	12	270	275	345	390
132M	7.5	132	216	178	89	12	270	275	345	430
160M	11	160	254	210	108	14.5	320	330	420	505
160L	15	160	254	254	108	14.5	320	330	420	560
180M	18.5	180	279	241	121	14.5	355	380	455	590
180L	22	180	279	279	121	14.5	355	380	455	630
200L	30	200	318	305	133	18.5	375	420	545	660
225S	37	225	356	286	149	18.5	435	470	555	675
225M	45	225	356	311	149	18.5	435	470	555	705
250M	55	250	406	349	168	24	490	510	615	770
280S	75	280	457	368	190	24	550	580	680	845
280M	90	280	457	410	190	24	550	580	680	895
315S	110	315	508	406	216	28	635	645	845	1100
315M	132	315	508	457	216	28	635	645	845	1130

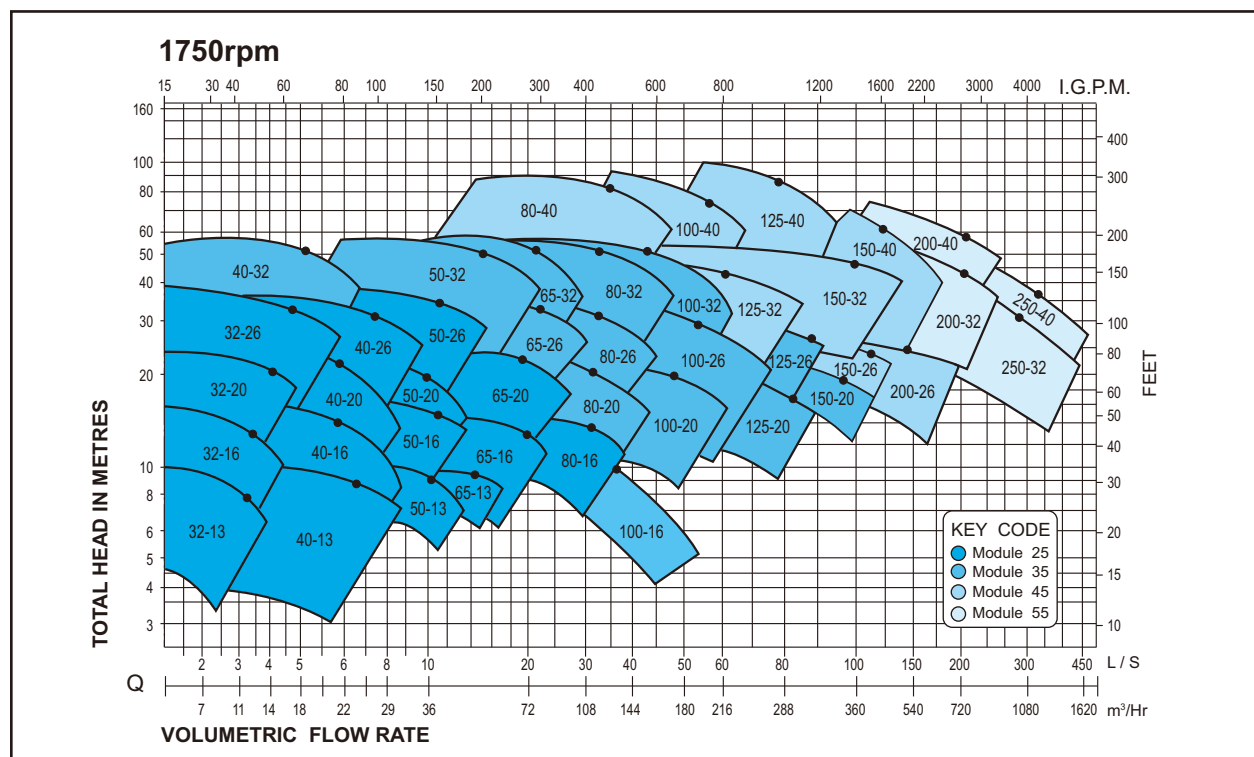
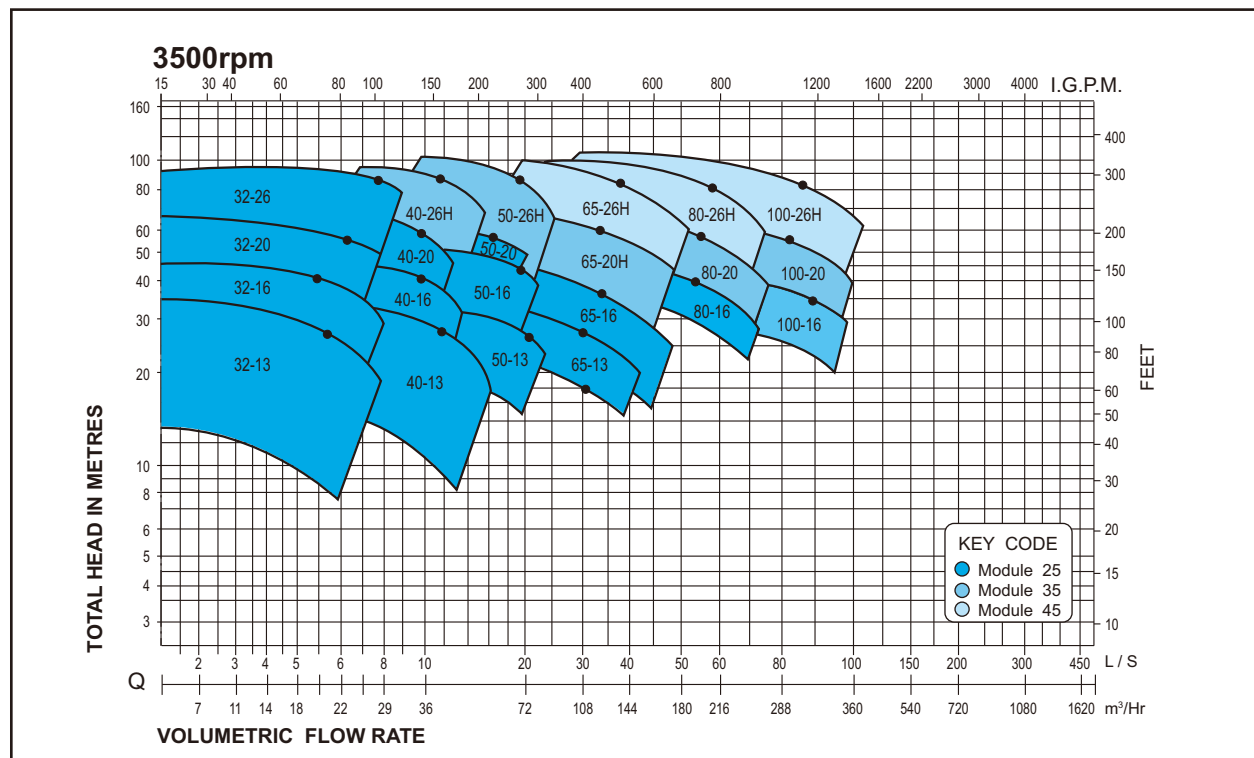
Pump Dimension

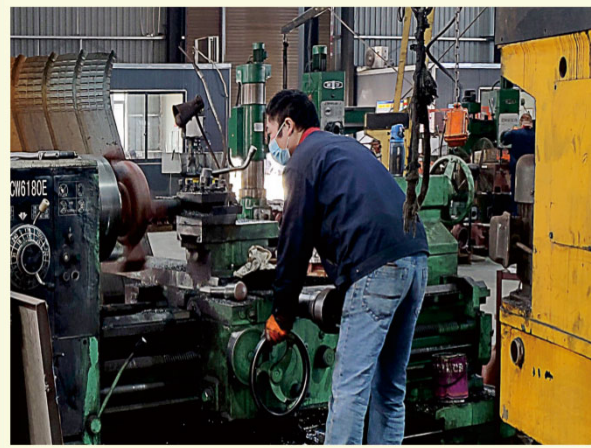
Pump Model	Motor /Kw n=1450rpm				D2	D1	a	f	h1	h2	m1	m2	n1	n2	ØS	W
32-13	0.55				32	50	80	227	112	140	100	70	190	140	14	227
32-16	0.55				32	50	80	227	132	160	100	70	240	190	14	227
32-20	0.75	1.1			32	50	80	227	160	180	100	70	240	190	14	227
32/26	2.2	3			32	50	100	227	180	225	125	95	320	250	14	227
40-13	0.55				40	65	80	227	112	140	100	70	210	160	14	227
40-16	0.55	0.75	1.1		40	65	80	227	132	160	100	70	240	190	14	227
40-20	0.75	1.1	1.5		40	65	100	227	160	180	100	70	265	212	14	227
40-26	1.5	2.2	3		40	65	100	227	180	225	125	95	320	250	14	227
40-32	4	5.5	7.5		40	65	125	268	200	250	125	95	345	280	14	268
50-13	0.55	0.75	1.1		50	65	100	227	132	160	100	70	240	190	14	227
50-16	0.75	1.1	1.5		50	65	100	227	160	180	100	70	265	212	14	227
50-20	1.1	1.5	2.2		50	65	100	227	160	200	100	70	265	212	14	227
50-26	3	4			50	65	100	227	180	225	125	95	320	250	14	227
	5.5			247												
50-32	5.5	7.5			50	65	125	268	225	280	125	95	345	280	14	268
	11			298												
65-13	0.75	1.1			65	80	100	227	160	180	125	95	280	212	14	227
65-16	1.1	1.5	2.2		65	80	100	227	160	200	125	95	280	212	14	227
65-20	2.2	3	4		65	80	105	227	180	225	125	95	320	250	14	227
65-26	3	4	5.5	7.5	65	80	100	268	200	250	160	120	360	280	18	268
65-32	7.5				65	80	125	268	225	280	160	120	400	315	18	268
	11	15		298												
80-16	1.5	2.2	3		80	100	125	227	180	225	125	95	320	250	14	227
80-20	3	4	5.5		80	100	125	268	180	250	125	95	345	280	14	268
80-26	7.5	11			80	100	125	298	200	280	160	120	400	315	18	298
80-32	11	15			80	100	125	298	250	315	160	120	400	315	18	298
80-40	18.5	22	30		80	100	125	319	280	355	160	120	440	340	18	314
100-16	2.2	3			100	125	125	268	200	250	160	120	360	280	18	268
100-20	5.5	7.5			100	125	125	268	200	280	160	120	360	280	18	268
100-26	11	15			100	125	140	298	225	280	160	120	400	315	18	298
100-32	15	18.5	22	30	100	125	140	298	250	315	160	120	400	315	18	298
100-40	22	30			100	125	140	314	280	355	200	150	500	400	23	314
	37			344												
125-20	7.5	11			125	150	145	298	250	315	160	120	400	315	18	298
125-26	15	18.5	22	30	125	150	140	298	250	355	160	120	400	315	18	298
125-32	18.5	22	30		125	150	140	314	280	355	200	150	500	400	23	314
125-40	37	45	55	75	125	150	160	344	315	400	200	150	500	400	23	344
150-20	11	15	18.5		150	200	160	325	280	400	200	150	400	315	23	325
150-26	18.5	22	30		150	200	160	314	280	400	200	150	450	350	23	314
150-32	30				150	200	160	314	280	400	200	150	550	450	23	314
	37	45	55	344												
150-40	45	55	75	90	150	200	160	344	315	450	200	150	550	450	23	344
200-26	22	30			200	250	180	339	315	450	200	150	550	450	28	339
200-32	37	45	55	75	200	250	180	379	315	480	220	170	600	480	28	379
200-40	55	75	90		200	250	180	379	335	480	220	170	600	480	28	379
	110			409												
250-32	55	75	90		250	300	220	400	355	520	250	200	660	510	28	400
250-40	75	90			250	300	220	391	400	560	250	200	660	510	28	391
	110	132		421												



AMEGA PUMPS

Performance Chart (60Hz)





OUR PURSUIT OF QUALITY
IS ALWAYS THE SAME.

