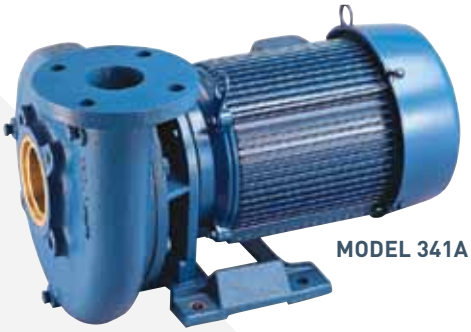
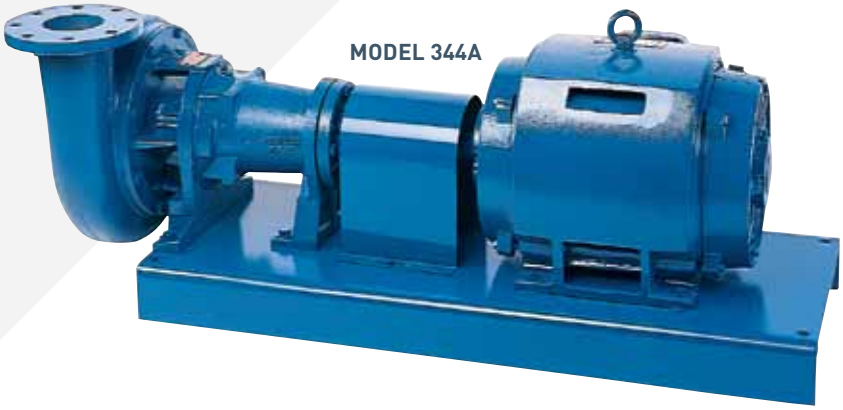
PENTAIR

MODEL 362A



MODEL 341A



MODEL 344A

AURORA® 340A/360A SERIES
SINGLE STAGE END SUCTION PUMPS

WWW.AURORAPUMP.COM

AURORA® 340A/360A SERIES
Single Stage End Suction Pumps

Capacities to 4500 G.P.M. (1022 m^3/hr)
Heads to 370 Feet (112 m)
Temperatures to 300°F (149°C)

Setting New Standards of Efficiency

Liquid handling requirements are much more involved than they were five years ago. The variety of liquids being handled has increased along with temperatures and pressures. Today's installations demand quiet, smooth-running pumps with long life. Aurora Pump's 90 years of experience with design, sales and manufacturing of centrifugal pumps has led to the 340A/360A Series. These modern pumps with a clean, straightforward design were developed with maximum interchangeability in mind. Aurora's highly reliable 340A/360A pumps offer an economical solution to your liquid handling problems.

End suction products such as the flexible coupled horizontal pump seen above are used in offices and high rise buildings for internal environment control. End suction pumps come in a variety of configurations including close coupled, flexible coupled, horizontal or vertical mounted units.

Standard & Optional Features

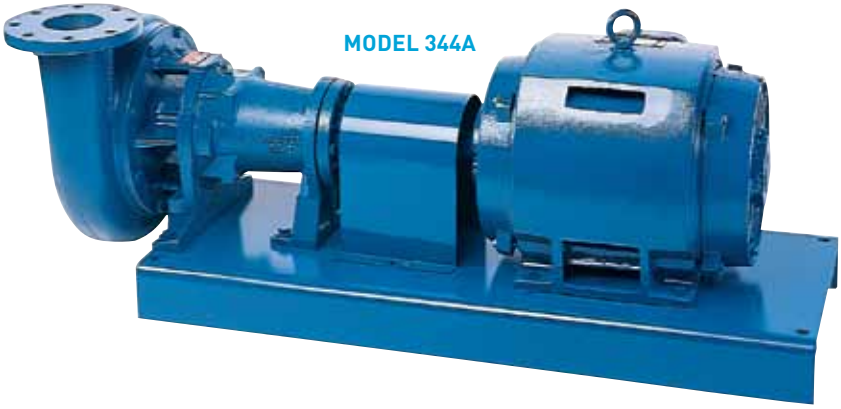
Standard – 340A/360A Series

- Discharge position No. 1
- Regreaseable bearings (Models 344A, 364A)
- Standard JM motor (Models 341A, 344A)
- Standard JP motor (Models 361A, 364A)
- Coupling guard (Models 344A, 364A)

Standard – 360A Series Only

- Interchangeable stuffing box
- Graphite impregnated acrylic packing

MODEL 362A



MODEL 344A

Optional – 340A/360A Series

- Standard 340A/360A Series pumps are designed to meet the requirements of most applications. However, to meet special services, a number of optional features have been made available. For services not handled by the features listed, refer to the factory.
- All iron construction
- 316 stainless steel sleeve
- Stainless steel shaft
- Impeller wearing rings
- Oil lubricated ball bearings (Models 344A, 364A)
- Sealed permanently lubricated ball bearings (power frames Nos. 1, 2 and 3)
- Alternative discharge positions Nos. 2, 3 and 4 (see pages 13 and 14)
- Fabricated stainless steel drip-rim bases (Models 344A, 364A)
- Formed steel bases (Models 344A, 364A)
- High temperature mechanical seal
- Variety of alternative constructions

Optional – 360A Series Only

- All bronze construction
- Hardened shaft sleeve (for packing)
- Various mechanical seal types
- Water jacketed stuffing box
- Semiopen impellers (Model 364A)
- Double row thrust bearings (Model 364A)
- Packing with lantern ring

Pump Features

A. Computer Machined
major components with 360 degree registered fits to assure concentricity of all pump parts.

B. Precision Cast, Dynamically Balanced, Enclosed Impeller
is keyed to the shaft extension and secured by a capscrew and washer. Gaskets are used to prevent leakage to shaft end.

C. Oil Seals
and nonsparking neoprene rotating slingers protect both bearings during pump operation and pump washdown.

D. Mechanical Seal
has hot water carbon against ceramic face for optimum hot water performance. Long life is also assured with 303 stainless steel metal parts and Buna-N elastomer.

E. Power Frame
provides heavy duty maximum interchangeability for flexible coupled applications.

F. Hydrostatic Test
of pumps at factory guarantees casting and seal integrity.

G. Bronze Shaft Sleeve
prevents shaft wear, is slip fit over the shaft, keylocked and extends the full length of seal box to eliminate corrosion of the shaft by the pumped liquid. This cancels the requirement for high cost, special stainless steel or alloy shafts.

H. Back Pullout
design simplifies disassembly. The suction and discharge piping is not disturbed at disassembly.

I. Lubrication Fittings
are conveniently located for quick accessibility and provide positive bearing lubrication. Oil lubrication optionally available.

J. Carbon Steel Shaft
designed for minimum deflection, not to exceed .002" at the sealing faces at maximum load.

K. Bearings
selected for 3 year minimum life at maximum load. Average bearing life 5 x minimum. Grease lube standard.

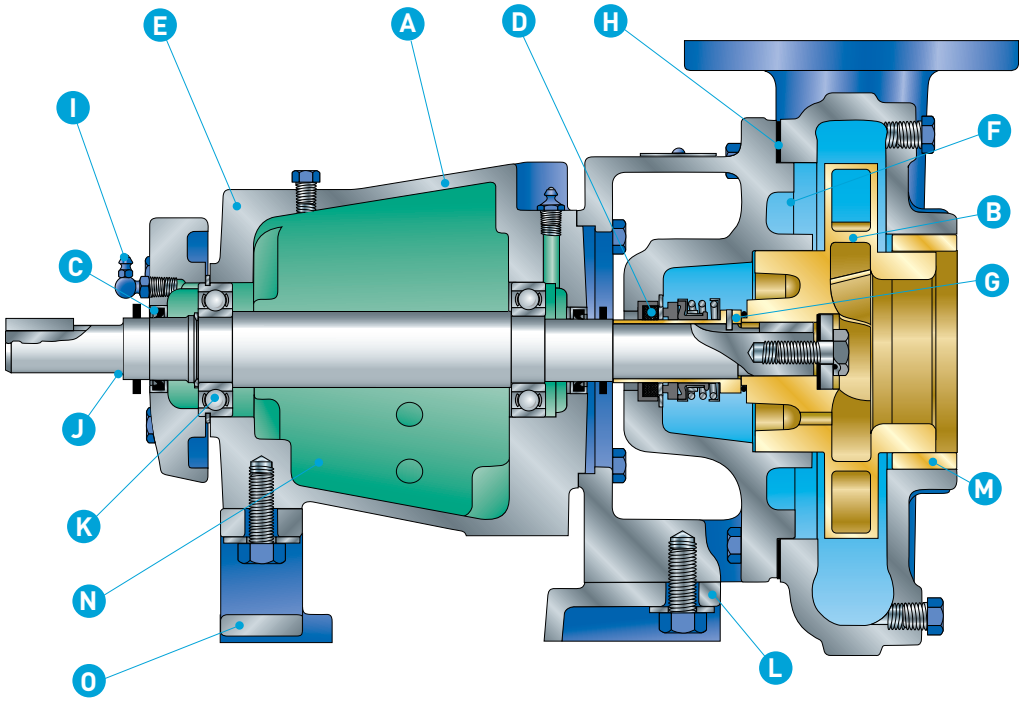
L. Close Coupled Motors
in smaller frame sizes are supported off the motor bracket for maximum rigidity.

M. Case Wearing Ring
prevents wear on casing and is easily and inexpensively replaced. Impeller rings are available. Front case wearing rings are standard on all models and size pumps. Rear case wearing rings are standard only on 2" discharge and larger model 360A Series pumps. Front impeller wearing rings are optional on all models and size pumps. Rear impeller wearing rings are optional only on 2" discharge and larger model 340A/360A Series pumps.

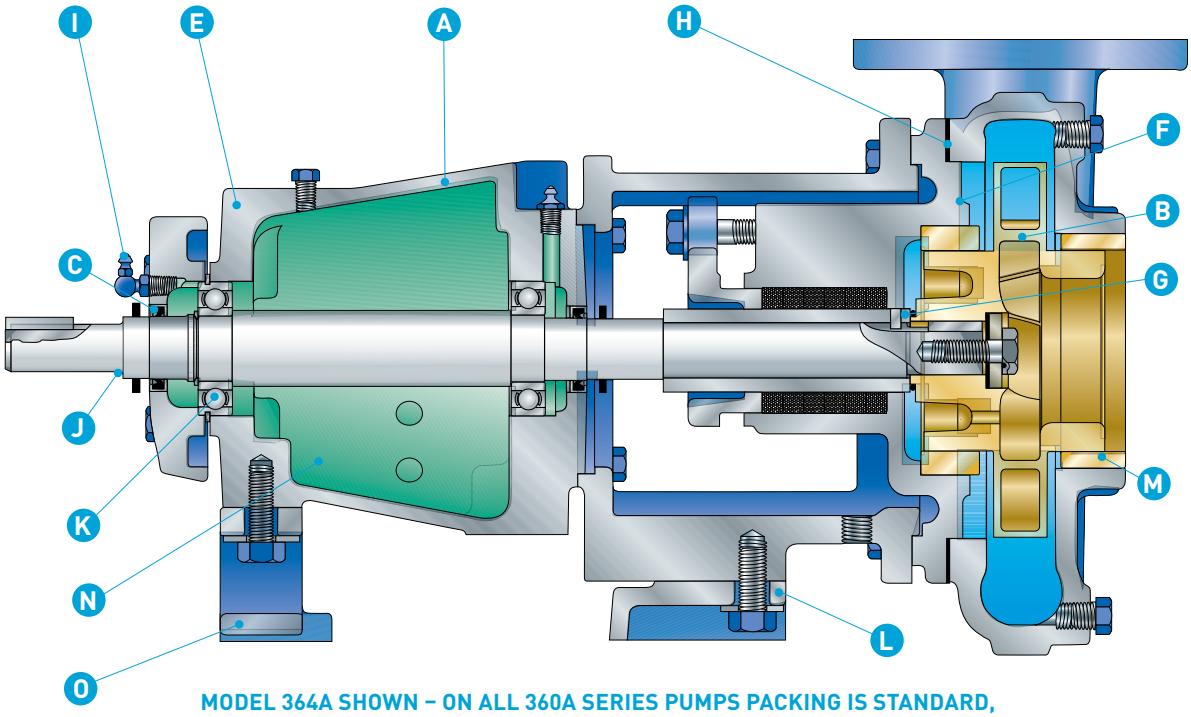
N. Large Capacity Oil Reservoir
is provided on power frame Model 344A and 364A pumps for optional oil lube.

O. Rear Support Foot
provides support and simplifies coupling alignment. All supports are slotted to simplify back pullout of power frame.

Pump Features

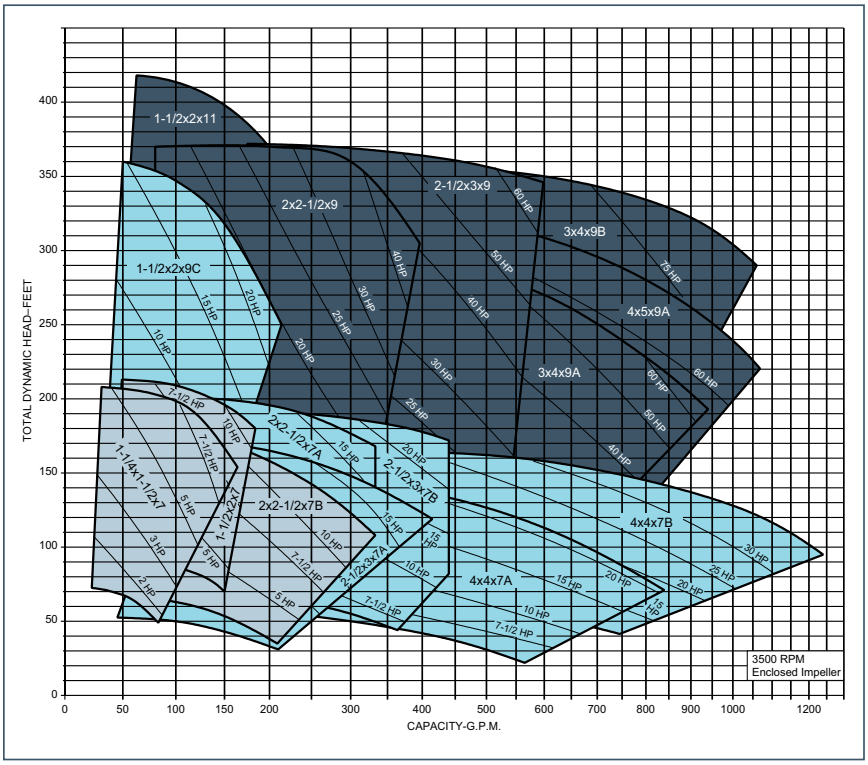


MODEL 344A SHOWN – ON ALL 340A SERIES PUMPS
MECHANICAL SEALS ARE STANDARD



MODEL 364A SHOWN – ON ALL 360A SERIES PUMPS PACKING IS STANDARD,
MECHANICAL SEALS ARE OPTIONAL

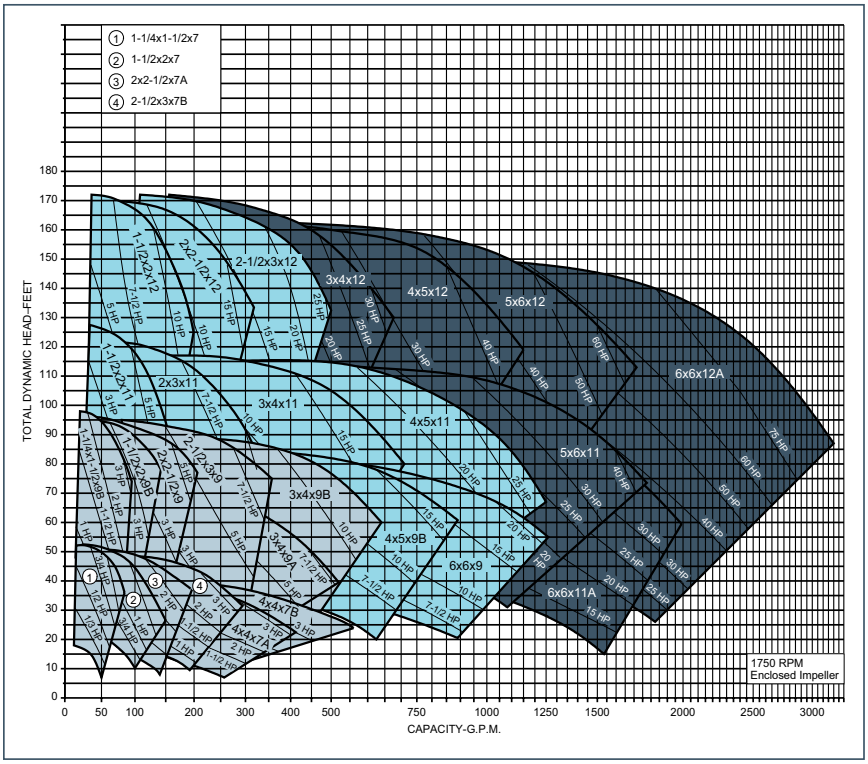
340A SERIES Range Charts – 60 Hertz



3500 RPM

Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
Maximum Horsepower	Close Coupled	Open Drip Proof	60
		TE & EX PR	50
	Frame Mounted		100

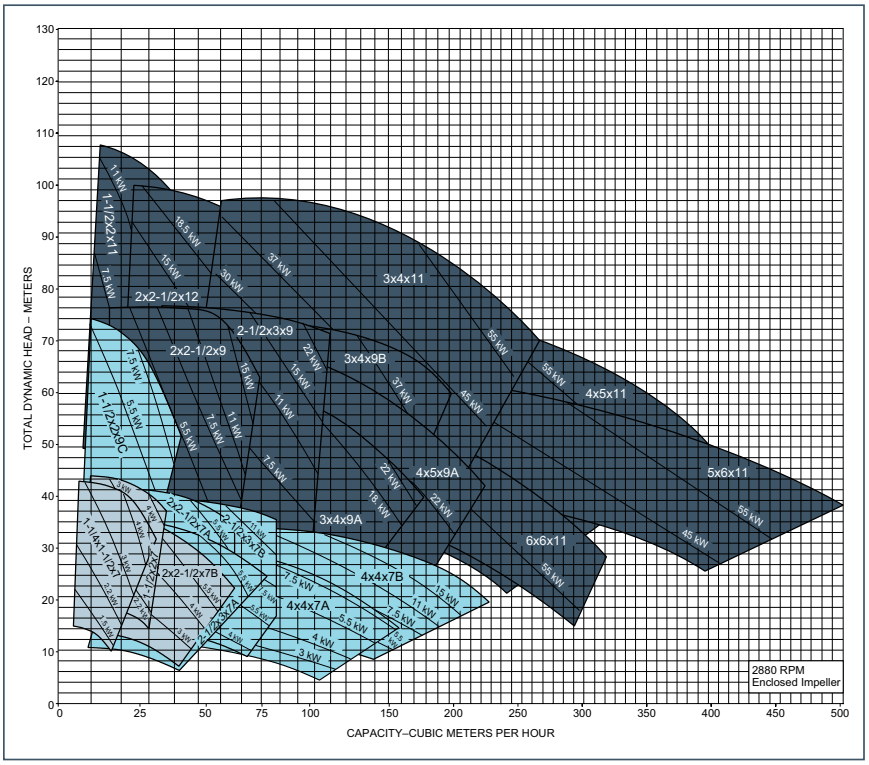


1750 RPM

Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
Maximum Horsepower	Close Coupled	Open Drip Proof	50
		TE & EX PR	50
	Frame Mounted		100

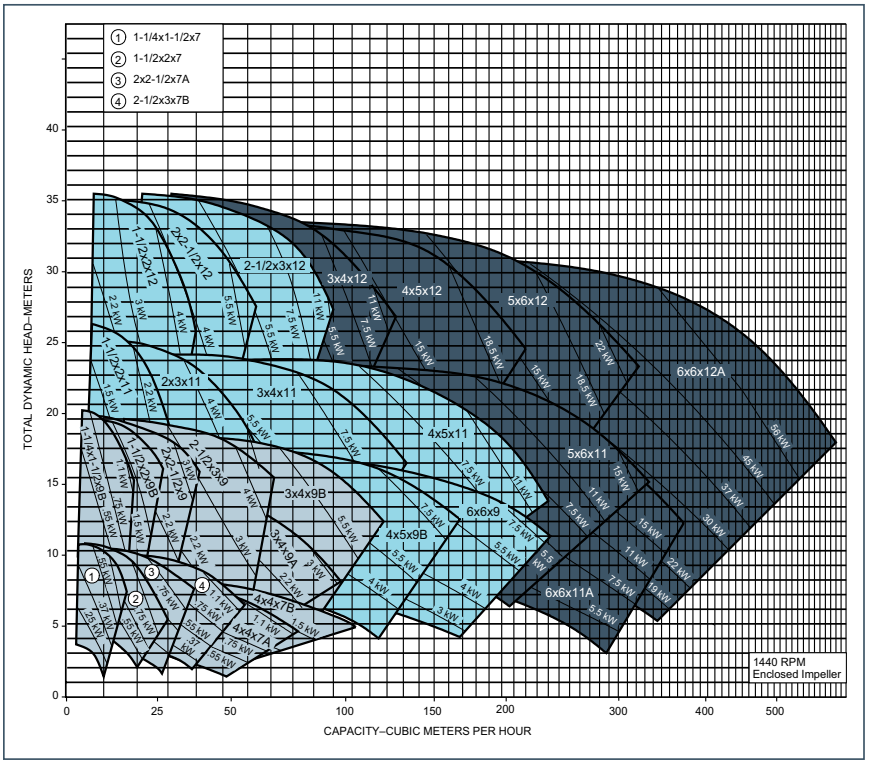
340A SERIES Range Charts – 50 Hertz



2880 RPM

Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
Maximum Horsepower	Close Coupled	Open Drip Proof	60
		TE & EX PR	50
	Frame Mounted		100

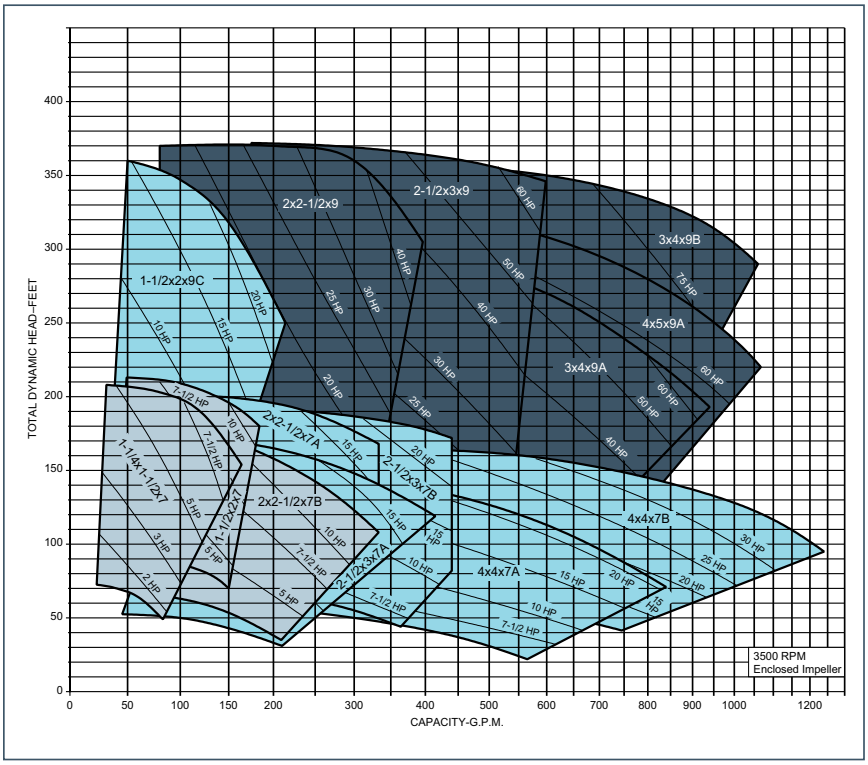


1440 RPM

Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
Maximum Horsepower	Close Coupled	Open Drip Proof	50
		TE & EX PR	50
	Frame Mounted		100

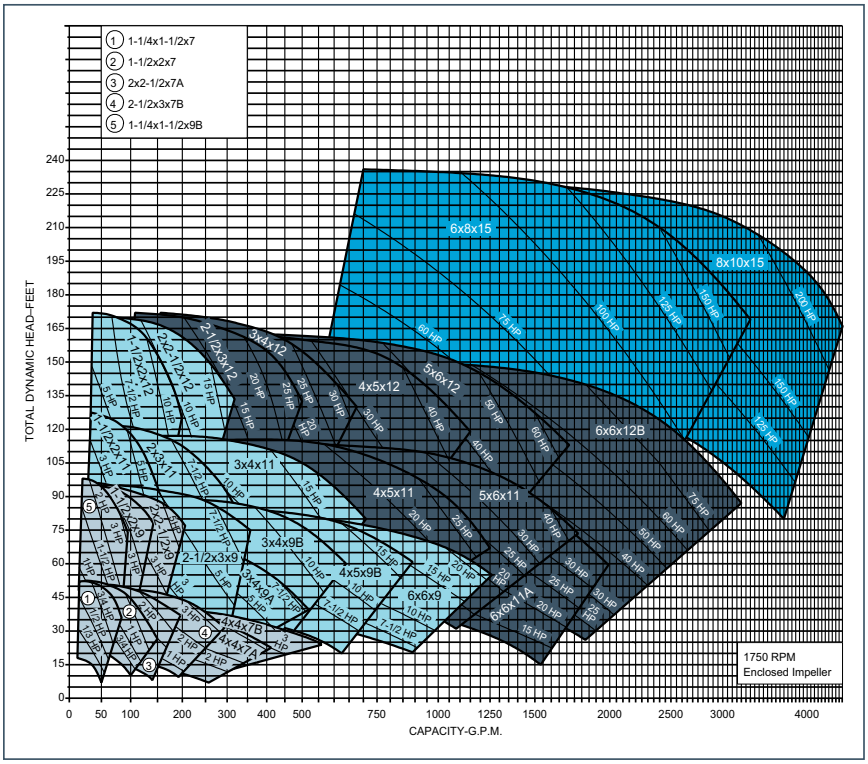
360A SERIES Range Charts – 60 Hertz



3500 RPM

Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
Maximum Horsepower	Close Coupled	Open Drip Proof	60
		TE & EX PR	50
	Frame Mounted		100

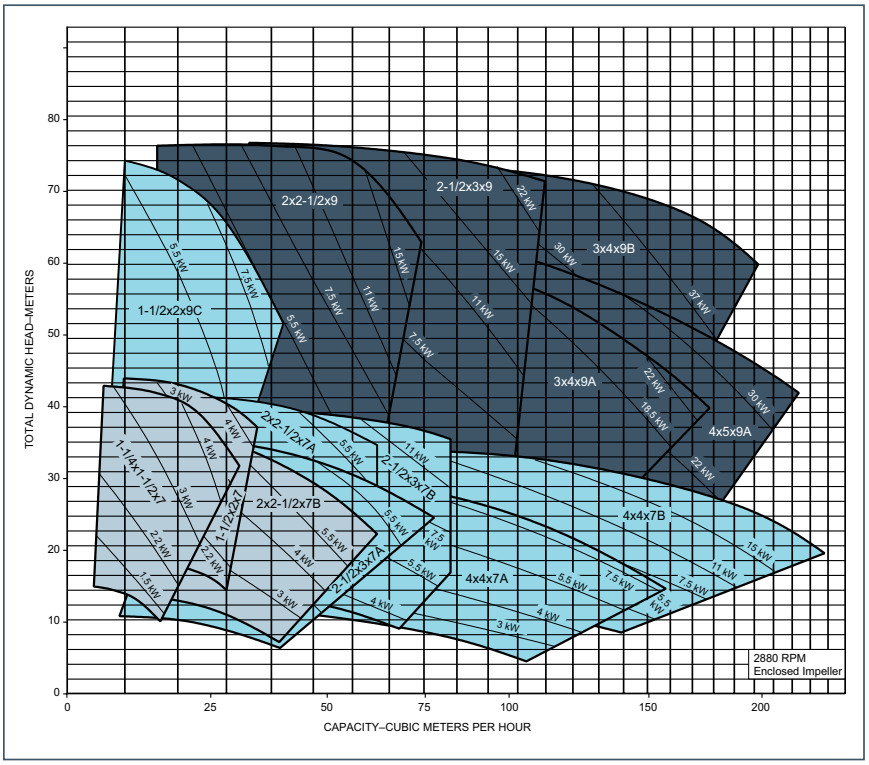


1750 RPM

Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
	Power Frame No. 21		
Maximum Horsepower	Close Coupled	Open Drip Proof	50
		TE & EX PR	50
	Frame Mounted		250

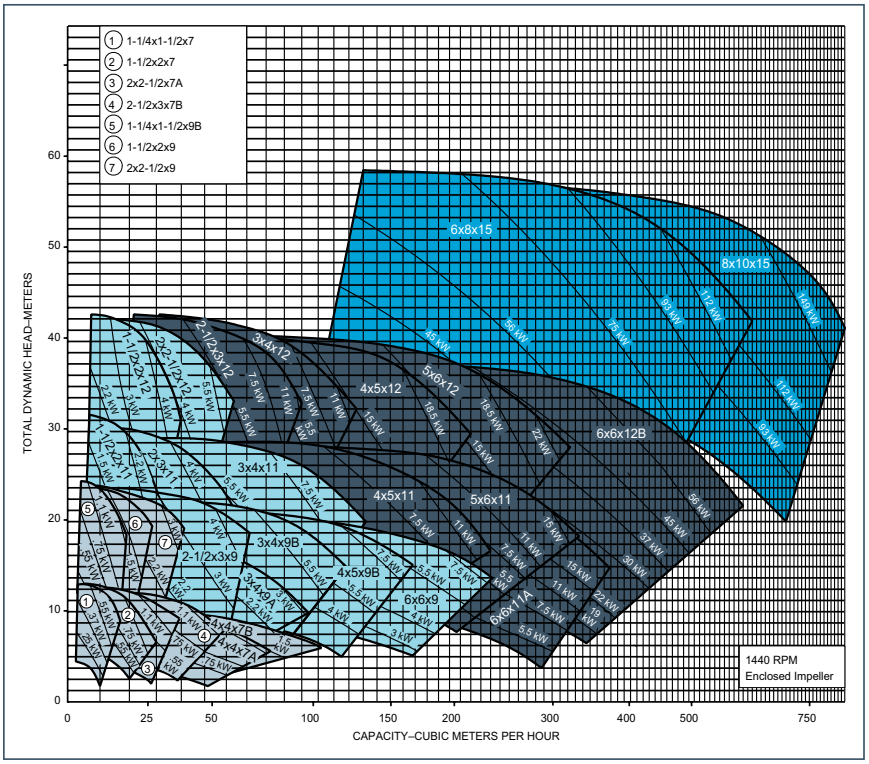
360A SERIES Range Charts – 50 Hertz



2880 RPM

Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
Maximum Horsepower	Close Coupled	Open Drip Proof	60
		TE & EX PR	50
	Frame Mounted		100



1440 RPM

Individual performance curves should be checked for final selection.
For selections not shown on this chart, please refer to the factory.

	Power Frame No. 1		
	Power Frame No. 2		
	Power Frame No. 3		
	Power Frame No. 21		
Maximum Horsepower	Close Coupled	Open Drip Proof	50
		TE & EX PR	50
	Frame Mounted		250

Materials of Construction

Pump Part	Standard Fitted	Bronze Fitted	All Iron	*All Bronze
Casing	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Bronze – ASTM B62
Case Wearing Ring	Bronze – ASTM B62	Bronze – ASTM B62	Cast Iron – ASTM A48	Bronze – ASTM B62
Impeller	Cast Iron – ASTM A48	Bronze – ASTM B584	Cast Iron – ASTM A48	Bronze – ASTM B584
Motor Bracket	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Cast Iron – ASTM A48
Shaft	Steel – AISI C1045	Steel – AISI C1045	Steel – AISI C1045	Steel – AISI C1045
Sleeve	Bronze – ASTM B62	Bronze – ASTM B62	Stainless Steel – AISI 316	Bronze – ASTM B62
Power Frame (344A & 364A)	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Cast Iron – ASTM A48
Mechanical Seal 340A Series	303 stainless steel metal parts, Buna-N elastomer parts, ceramic seat and carbon washer			303 stainless steel metal parts, Viton® elastomer, ceramic seat, and carbon washer
360A Series (Optional)				
Stuffing Box	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Cast Iron – ASTM A48	Bronze – ASTM B62
Packing (Standard) – 360A Series Only	Interwoven, graphited fiber diagonally cut			

* All Bronze optionally available in 361A and 364A pumps only.

Design Details

Area	Description	Power Frame			
		1	2	3	21
Pump Shaft	Rotation–from driver end	CW	CW	CW	CW
	Diameter at impeller	7/8	1-1/4	1-1/4	1-5/8-12
	Diameter at shaft sleeve	1	1-3/8	1-3/8	2-1/4
	Diameter between bearings	1-3/8	1-15/16	2-3/8	3-1/4
	Diameter at coupling end	7/8	1-1/8	1-1/8	2-3/8
	Coupling key–square	3/16	1/4	1/4	5/8
	Max. deflection at seal face	.002	.002	.002	.002
Ball Bearings	Bearing (inboard radial)	206K	308K	310K	313
	Bearing (outboard thrust)	206KG	308KG	310KG	5313
	Bearing centers	5-11/16	7-11/16	7-11/16	9-5/8
	Bearing type	Ball	Ball	Ball	Ball
	Min. B_{10} bearing life under maximum load	3 years	3 years	3 years	3 years
Sleeve	Packing size 360A Series	3/8	3/8	3/8	7/16
	Outside diameter of sleeve 360A Series	1-1/2	1-7/8	1-7/8	2-1/2
	Outside diameter of sleeve 340A Series	1-1/8	1-1/2	1-1/2	N/A

340A Series

Sealing Method	Temperature °F	
	Close Coupled	Frame Mounted
Standard Mechanical Seal	225	225

360A Series

Sealing Method	Temperature °F	
	Close Coupled	Frame Mounted
Standard Mechanical Seal	225	225
Mechanical Seal with Water Jacket*	300	300
Standard Packing	225	225
Packing with Water Jacket*	275	275

Packing . . . Suction lift requires lantern ring
*7, 9 and 12 bore pumps only

340A/360A Series Case Working Pressure (all or any part can be suction pressure) – 175 psi

Hydrostatic Test Pressure – 265 psi

Limitations 340A/360A Series – hp

Speed–RPM	3500	3500	1750	1150
Close Coupled	O.D.P.	60	50	30
	T.E. & EX. PR.	50	50	30
Power Frame	1	40	20	15
	2 & 3	125	75	40
	21	N/A	250	150

Power Frame Construction

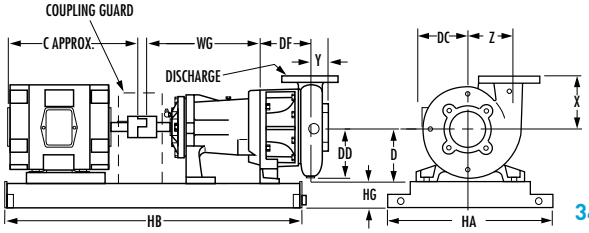
Pump Size	Model 344A				Model 364A					
	3500 RPM	2880 RPM	1750/1440 RPM	1150/960 RPM	3500 RPM	3000 RPM	1750/1440 RPM		1150/960RPM	
					ENC.	ENC.	ENC.	SEMI.	ENC.	SEMI.
1-1/4 x 1-1/2 x 7	1	1	1	*	1	1	1	1	*	*
1-1/4x1-1/2x9B	*	*	1	*	*	*	1	*	*	*
1-1/2 x 2 x 7	1	1	1	*	1	1	1	1	*	*
1-1/2 x 2 x 9A	*	*	1	*	*	*	1	2	*	1
1-1/2 x 2 x 9B	*	*	1	*	*	*	1	*	*	*
1-1/2 x 2 x 9C	2	2	1	*	2	2	1	*	*	*
1-1/2 x 2 x 11	3	3	2	2	*	*	2	*	2	*
1-1/2 x 2 x 12	*	*	2	2	*	*	2	3	2	2
2 x 2-1/2 x 7A	2	2	1	*	2	2	1	1	*	*
2 x 2-1/2 x 7B	1	1	1	*	1	1	1	*	*	*
2 x 2-1/2 x 9	3	3	1	*	3	3	1	*	*	*
2 x 2-1/2 x 12	*	*	2	2	*	*	2	*	2	*
2 x 3 x 11	*	3	2	2	*	*	2	*	2	*
2-1/2 x 3 x 7A	1	1	1	*	2	2	1	1	*	*
2-1/2 x 3 x 7B	2	2	1	*	2	2	1	*	*	*
2-1/2 x 3 x 9	3	3	1	*	3	3	2	2	*	2
2-1/2 x 3 x 12	*	*	2	2	*	*	3	3	2	2
3 x 4 x 9A	3	3	1	*	3	3	2	*	*	*
3 x 4 x 9B	3	3	1	*	3	3	2	*	*	*
3 x 4 x 11	*	3	2	2	*	*	2	*	2	*
3 x 4 x 12	*	*	3	2	*	*	3	3	2	2
4 x 4 x 7A	2	2	1	*	2	2	1	*	*	*
4 x 4 x 7B	2	2	1	*	2	2	1	1	*	*
4 x 5 x 9A	3	3	2	*	3	3	2	*	*	*
4 x 5 x 9B	*	*	2	*	*	*	2	2	*	2
4 x 5 x 11	*	3	2	2	*	*	3	*	2	*
4 x 5 x 12	*	*	3	2	*	*	3	3	2	2
5 x 6 x11	*	3	3	2	*	*	3	*	2	*
5 x 6 x 12	*	*	3	2	*	*	3	3	3	2
6 x 6 x 9	*	*	2	2	*	*	2	2	2	2
6 x 6 x 11	*	3	3	2	*	*	3	*	2	*
6 x 6 x 11A	*	*	3	2	*	*	3	*	2	*
6 x 6 x 12B	*	*	3	3	*	*	3	*	3	*
6 x 8 x 15	*	*	*	*	*	*	21	*	21	*
8 x 10 x 15	*	*	*	*	*	*	21	*	21	*

* = Not Available

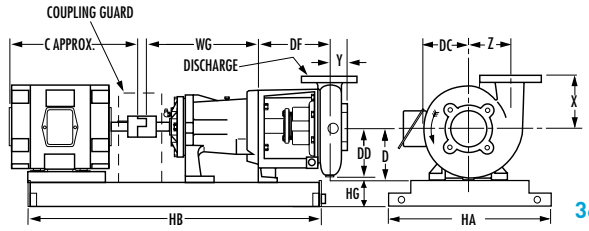
ENC. = Enclosed Impeller

SEMI. = Semiopen Impeller (Optional)

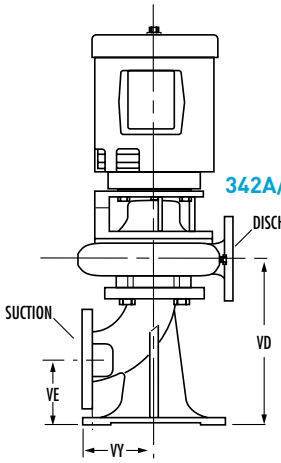
Engineering & Dimension Details



340A SERIES



360A SERIES

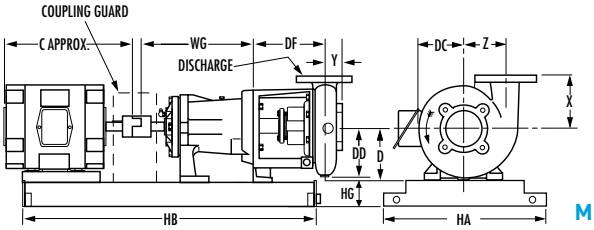


342A/362A SERIES

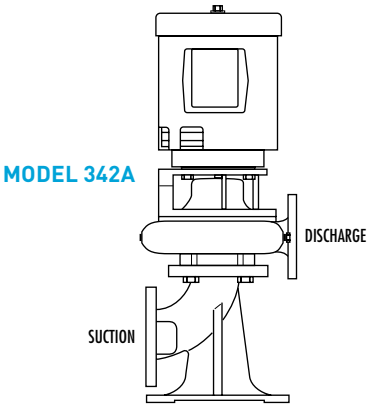
Pumps with Threaded Connections						340A Series			360A Series		342A/362A		
						DF			DF		Vertical Pumps		
Pump Size**	X	Y	Z	DC	DD	Frame 1 143JM-215JM	Frame 2 or 3 254JM-256JM	Frame 2 or 3 284JM-326JM	Frame 1 143JP-184JP	Frame 2, 3 or 21 213JP-325JP	VD	VE	VY
1-1/4 x 1-1/2 x 7	5-1/4	2-7/16	4-3/16	4-15/16	5-3/16	4-3/4	N/A	N/A	7-13/16	N/A	9-3/8	3-3/4	4
1-1/4 x 1-1/2 x 9B	6-3/8	2-9/16	5-3/8	6-3/16	6-3/8	4-11/16	N/A	N/A	7-3/4	N/A	9-3/8	3-3/4	4
1-1/2 x 2 x 7	5-3/8	2-1/2	4-5/16	5-1/8	5-3/8	4-13/16	N/A	N/A	7-7/8	N/A	10-5/16	4-1/8	4-1/2
1-1/2 x 2 x 9	6-3/4	2-5/8	5-1/2	6-5/16	6-9/16	4-3/4	5-3/4	5-3/4	7-13/16	8-5/8	10-5/16	4-1/8	4-1/2
1-1/2 x 2 x 11	9	2-13/16	6-1/8	7-1/16	7-1/4	N/A	5-3/4	5-3/4	N/A	8-5/8	10-1/2	4-1/8	4-1/2
1-1/2 x 2 x 12	7-3/4	2-3/4	7-1/16	8	8-1/4	N/A	5-7/8	N/A	N/A	8-3/4	10-7/16	4-1/8	4-1/2
Pumps with Ansi Standard 125 Lb. Flanged Connections													
2 x 2-1/2 x 7	5-5/8	1-7/8	4-9/16	5-3/8	5-13/16	4-15/16	5-15/16	N/A	8	8-13/16	11-7/16	4-1/2	5
2 x 2-1/2 x 9	7	1-7/8	5-11/16	6-1/2	6-7/8	4-7/8	5-7/8	5-7/8	7-15/16	8-3/4	11-7/16	4-1/2	5
2 x 2-1/2 x 12	8	1-7/8	7-3/16	8-3/16	8-1/2	5	6	N/A	N/A	8-7/8	11-7/16	4-1/2	5
2 x 3 x 11	8	2-3/8	6-1/2	7	7-3/8	5-1/8	6-1/8	N/A	N/A	8-5/8	12-7/8	5	5-1/2
2-1/2 x 3 x 7	5-7/8	2	4-13/16	5-13/16	6-1/4	5-1/16	6-1/16	N/A	8-1/8	8-15/16	12-9/16	5	5-1/2
2-1/2 x 3 x 9	7-1/4	2	5-15/16	6-3/4	7-1/4	5	6	6	8-1/16	8-7/8	12-9/16	5	5-1/2
2-1/2 x 3 x 12	8-1/4	2	7-3/8	8-3/8	8-3/4	5-1/8	6-1/8	N/A	N/A	9	12-9/16	5	5-1/2
3 x 4 x 9	7-1/2	2-1/8	6-1/8	6-7/8	7-7/16	5-1/8	6-1/8	6-1/8	8-3/16	9	14-11/16	6	6-1/2
3 x 4 x 11	9	2-3/4	7	7-9/16	8-3/16	5-7/16	6-7/16	N/A	N/A	9-1/8	15-1/4	6	6-1/2
3 x 4 x 12	8-1/2	2-1/8	7-9/16	8-7/16	8-15/16	5-1/2	6-1/2	6-1/2	N/A	9-1/8	14-11/16	6	6-1/2
4 x 4 x 7	6-1/2	2-1/2	5/1-2	6-7/16	7-5/16	5-7/16	6-7/16	6-7/16	8-1/2	9-5/16	14-15/16	6	6-1/2
4 x 5 x 9A	7-1/4	3-1/8	5-3/4	6-11/16	7-3/8	5-1/4	6-1/4	6-1/4	N/A	9-1/8	17-3/16	6-1/2	7-1/2
4 x 5 x 9B	7-3/4	2-5/8	6-5/8	8-1/16	8-11/16	5-3/8	6-3/8	N/A	N/A	9-1/4	16-11/16	6-1/2	7-1/2
4 x 5 x 11	9	3	7-1/4	7-15/16	8-11/16	5-5/8	6-5/8	6-5/8	N/A	9-1/4	17	6-1/2	7-1/2
4 x 5 x 12	8-3/4	2-5/8	7-15/16	8-7/8	9-9/16	N/A	6-3/4	6-3/4	N/A	9-3/8	16-11/16	6-1/2	7-1/2
5 x 6 x 11	9	3-1/8	8-1/16	8-11/16	10-1/8	6	7	7	N/A	9-5/8	18-1/8	7	8
5 x 6 x 12	9	2-7/8	8-5/16	9-1/4	10-1/8	N/A	7	7	N/A	9-5/8	17-7//8	7	8
6 x 6 x 9	8-1/4	2-3/4	7	8	9	5-1/2	6-1/2	6-1/2	N/A	9-3/8	17-13/16	7	8
6 x 6 x 11	9-1/4	3-1/8	8-11/16	9-11/16	10-13/16	N/A	7-1/4	7-1/4	N/A	9-7/8	18-1/4	7	8
6 x 6 x 11A	9-1/4	3-1/8	8-11/16	9-11/16	10-13/16	N/A	7-1/4	7-1/4	N/A	9-7/8	18-1/4	7	8
6 x 6 x 12	9-1/4	3-1/8	8-11/16	9-11/16	10-13/16	N/A	7-1/4	7-1/4	N/A	9-7/8	18-1/4	7	8
6 x 8 x 15	18	6	—	10-7/16	14-1/2	N/A	N/A	N/A	N/A	10-3/16*	N/A	N/A	N/A
8 x 10 x 15	19	6	—	11	14-1/2	N/A	N/A	N/A	N/A	10-5/16*	N/A	N/A	N/A

* Power Frame 21 Only ** Applies to all impeller revisions except where revision letter is stated

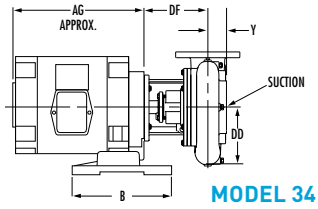
340A SERIES Engineering & Dimension Details



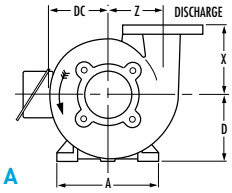
MODEL 344A

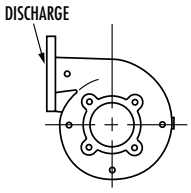


MODEL 342A



MODEL 341A

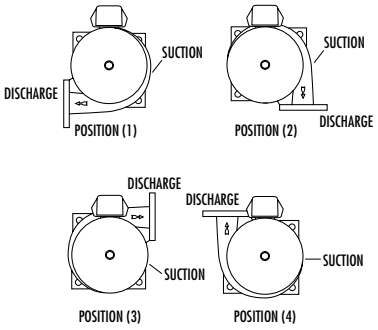




STANDARD POSITION (1)

Pump Model	Base Number	Weight Lbs.	HA_1	HB	HG
344A	4	49	17-1/4	30-1/2	3
	5	59	17-1/4	36-1/2	3
	7	82	20-1/2	36-1/2	3
	8	96	20-1/2	42-1/2	3
	11	164	26-3/4	46-1/2	4
	15	291	30-3/4	54-1/2	4-1/2

Power Frame			1	2	3
Weight in Pounds			36	82	87
D	Case Bore	7	5-1/4	6-1/4	—
		9	6-1/4	7	7
		11	—	7	7
		12	—	7	7
WG			10-5/16	13-13/16	13-13/16

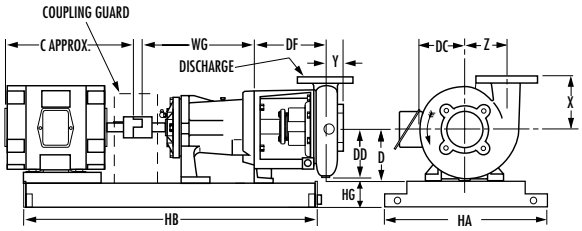


Pump Model	Motor Frame	Horsepower 3500 RPM	Horsepower 1750 RPM	Horsepower 1150 RPM	Mtr. Wgt. Lbs.	D	Pump Model 341A A	B	AG	C	Base Number		
344A	56	—	1/2-3/4	—	50	5-1/4	—	—	—	12	4	N/A	N/A
341A 342A & 344A	143T	1-1/2	1	3/4	30	5-1/4	9-3/4	8-5/8	10	12	4	N/A	N/A
	145T	2-3	1-1/2-2	1	35	5-1/4	9-3/4	8-5/8	11	13	4	7	N/A
	182T	5	3	1-1/2	45	5-1/4	9-3/4	8-5/8	11	13	4	7	N/A
	184T	7-1/2	5	2	50	5-1/4	9-3/4	8-5/8	12	14	4	7	N/A
	213T	10	7-1/2	3	120	5-1/4	10-1/2	7-1/2	14	16	4	7	N/A
	215T	15	10	5	144	5-1/4	10-1/2	9	15	18	5	7	N/A
	254T	20	15	7-1/2	217	6-1/4	12-1/2	10-3/4	17	21	7	8	8
	256T	25	20	10	246	6-1/4	12-1/2	12-1/2	19	23	N/A	8	8
	284T	—	25	15	320	7	13-3/4	11-1/2	19	24	N/A	8	8
	284TS	30	—	—	320	7	13-3/4	11-1/2	19	22	N/A	8	8
	286T	—	30	20	351	7	13-3/4	13	21	25	N/A	8	8
	286TS	40	—	—	351	7	13-3/4	13	21	24	N/A	8	8
	324T	—	40	25	442	8	16	14	22	26	N/A	11	11
	324TS	50	—	—	442	8	16	14	22	25	N/A	11	11
	326T	—	50	30	485	8	16	15-1/2	23	28	N/A	11	11
	326TS	60	—	—	485	8	16	15-1/2	23	26	N/A	11	11
344A	364T	—	—	40	540	9	18	15-1/2	23	29	N/A	11	11
	364TS	75	60	—	540	9	18	15-1/2	23	27	N/A	11	11
	365TS	100	75	—	590	9	18	15-1/2	24	28	N/A	11	11
	404TS	125	100	—	690	10	20	16-1/4	26	30	N/A	15	15

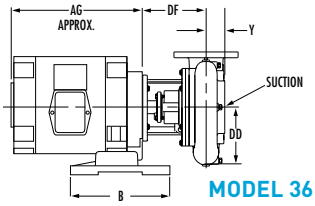
Notes:

1. Dimensions and weights are approximate.
2. All dimensions are in inches and may vary ±1/4" (6).
3. Frame sizes, "C" and "AG", dimension and motor weight are for open drip-proof motors only.
4. Conduit box is shown in approximate position. Dimensions are not specified as they vary with each motor manufacturer.
5. Not for construction purposes unless certified.
6. Discharge positions No. 2 and 3 are not available on Models 342A and 344A. Position No. 1 is furnished as standard unless otherwise specified.
7. When two "D" dimensions are indicated, always use the larger figure.
8. Power frame selection for 344A pumps can be made from the range charts.
9. Models 341A and 342A have "JM" motor frames. Model 344A has "T" frame motor.

360A SERIES Engineering & Dimension Details

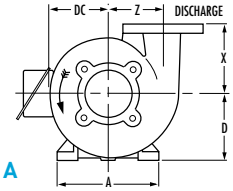


MODEL 364A



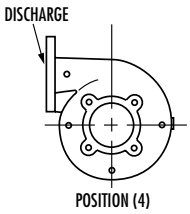
MODEL 361A

STANDARD POSITION (1)

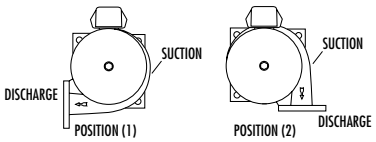


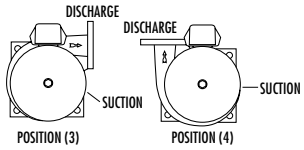
Pump Model	Base Number	Weight Lbs.	HA_1	HB	HG
364A	4	49	17-1/4	30-1/2	3
	5	59	17-1/4	36-1/2	3
	7	82	20-1/2	36-1/2	3
	8	96	20-1/2	42-1/2	3
	9	164	26-3/4	46-1/2	4
	11	291	30-3/4	54-1/2	4-1/2
	15	291	30-3/4	54-1/2	4-1/2
	16	345	30-3/4	64-1/2	4-1/2
	17	399	30-3/4	74-1/2	4-1/2

Power Frame			1	2	3	21
Weight in Pounds			36	82	87	163
D	Case Bore	7	5-1/4	6-1/4	—	—
		9	6-1/4	7	7	
		11	—	7	7	
		12	—	7	7	
		15	—	—	—	14-1/2
WG			10-5/16	13-13/16	13-13/16	13-13/16

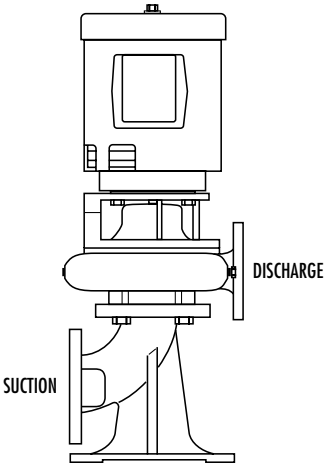


Pump Model	Motor Frame	Horsepower 3500 RPM	Horsepower 1750 RPM	Horsepower 1150 RPM	Mtr. Wgt. Lbs.	D	Pump Model 361A A	Pump Model 361A B	Pump Model 361A AG	C	Base Number			
364A	56	—	1/2-3/4	—	50	5-1/4	—	—	—	12	4	N/A	N/A	N/A
361A, 362A & 364A	143T	1-1/2	1	3/4	30	5-1/4	9-3/4	8-5/8	10	12	4	N/A	N/A	N/A
	145T	2-3	1-1/2-2	1	35	5-1/4	9-3/4	8-5/8	11	13	4	7	N/A	N/A
	182T	5	3	1-1/2	45	5-1/4	9-3/4	8-5/8	11	13	4	7	N/A	N/A
	184T	7-1/2	5	2	50	5-1/4	9-3/4	8-5/8	12	14	4	7	N/A	N/A
	213T	10	7-1/2	3	120	5-1/4	10-1/2	7-1/2	14	16	4	7	7	N/A
	215T	15	10	5	144	5-1/4	10-1/2	9	15	18	5	7	7	N/A
	254T	20	15	7-1/2	217	6-1/4	12-1/2	10-3/4	17	21	N/A	8	8	N/A
	256T	25	20	10	246	6-1/4	12-1/2	12-1/2	19	23	N/A	8	8	N/A
	284T	—	25	15	320	7	13-3/4	11-1/2	19	24	N/A	8	8	N/A
	284TS	30	—	—	320	7	13-3/4	11-1/2	19	22	N/A	8	8	N/A
	286T	—	30	20	351	7	13-3/4	13	21	25	N/A	9	9	16
	286TS	40	—	—	351	7	13-3/4	13	21	24	N/A	8	8	N/A
	324T	—	40	25	442	8	16	14	22	26	N/A	11	11	16
	324TS	50	—	—	442	8	16	14	22	25	N/A	11	11	N/A
	326T	—	50	30	485	8	16	15-1/2	23	28	N/A	11	11	16
	326TS	60	—	—	485	8	16	15-1/2	23	26	N/A	11	11	N/A
364A	364T	—	—	40	540	9	18	15-1/2	23	29	N/A	12	12	16
	364TS	75	60	—	540	9	18	15-1/2	23	27	N/A	11	11	16
	365T	—	—	50	590	9	18	15-1/2	24	28	N/A	N/A	N/A	16
	365TS	100	75	—	590	9	18	15-1/2	24	28	N/A	11	11	16
	404T	—	100	60	690	10	20	16-1/4	26	33	N/A	N/A	N/A	17
	404TS	125	100	—	690	10	20	16-1/4	26	30	N/A	15	15	17
	405T	—	—	75	780	10	20	17-3/4	27	34	N/A	N/A	N/A	17
	405TS	—	125	—	780	10	20	17-3/4	27	31	N/A	N/A	N/A	17
	444TS	—	150	—	950	11	22	18-1/2	30	34	N/A	N/A	N/A	17
	445TS	—	200	—	1000	11	22	20-1/2	32	36	N/A	N/A	N/A	17





MODEL 362A



Notes:

1. Dimensions and weights are approximate.
2. All dimensions are in inches and may vary ±1/4" (6).
3. Frame sizes, "C" and "AG", dimension and motor weight are for open drip-proof motors only.
4. Conduit box is shown in approximate position. Dimensions are not specified as they vary with each motor manufacturer.
5. Not for construction purposes unless certified.
6. Discharge positions No. 2 and 3 are not available on Models 361A and 364A. Position No. 1 is furnished as standard unless otherwise specified.
7. When two "D" dimensions are indicated, always use the larger figure.
8. Power frame selection for 364A pumps can be made from the range charts.
9. Models 361A and 362A have "JP" motor frames. Model 364A has "T" frame motor.

Engineering Specifications

Flexible-Close Coupled Pumps

The contractor shall furnish (and install as shown on the plans) Aurora® Model (341A horizontal close coupled) (342A vertical close coupled) (344A horizontal flexible coupled) back pullout centrifugal pumps size _____x_____x_____ of (standard fitted) (bronze fitted) (all iron) construction.

The contractor shall furnish (and install as shown on the plans) Aurora Model (361A horizontal close coupled) (362A vertical close coupled) (364A horizontal flexible coupled) back pullout centrifugal pumps size _____x_____x_____ of (bronze fitted) (all bronze) (all iron) (stainless steel) construction. Each pump is to be furnished with a (standard) (water cooled) stuffing box with (packing) (_____) (see options).

Each pump shall have a capacity of _____GPM at _____ft. total head, with a temperature of _____°F, _____specific gravity. Each pump is to be furnished with a mechanical seal with all metal parts to be 303 stainless steel with Buna-N elastomers, ceramic seat and carbon washer. The unit must be equipped with (bronze) (stainless steel) keylocked shaft sleeve that extends the length of the seal box. The pump shaft extension shall be O-ring sealed from the pumped liquid. Pump shall have a case wearing ring (impeller wearing rings). Impellers to be vacuum cast, dynamically balanced and keylocked to the shaft.

Flexible Coupled–Frame Mounted (Models 344A–364A)

Pump and motor are to be mounted on a common (fabricated steel drip rim) (steel) baseplate. The shaft is to be steel, installed in a cast iron power frame. Pumps shall have a shaft design for .002" deflection at the seal face with the pump running under maximum load condition. (Grease) (oil) (permanently lubricated) ball bearings, having a 3 year minimum life (AFBMA B10) under the maximum condition of load. Bearings to be protected by separate oil seals and slingers. The pump shall be flexible coupled to a standard horizontal NEMA, _____hp, _____ phase, _____hertz, _____volt, _____RPM (open drip-proof) (totally enclosed fan cooled) (hazardous location) motor. Alignment shall be checked in accordance with the standards of the Hydraulic Institute after installation, and there shall be no strain transmitted to the pumps.

Close Coupled (Models 341A–361A) (Models 342A–362A)

Each pump is to be close coupled to a standard HI-NEMA-JM (340A Series) JP (360A Series). _____hp, _____ phase, _____hertz, _____volt, _____RPM (drip-proof) (totally enclosed) (hazardous location) motor. Models 341A and 361A in motor frame sizes up to 184JM shall be supported by a separate support foot on the close coupled pump bracket.

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