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AURORA PUMP A member of PENTAIR PUMP GROUP

AURORA PUMP

BULLETIN 130/REV. H

**130 SERIES
SINGLE STAGE
TURBINE TYPE
PUMPS**

CAPACITIES TO 50 G.P.M.
HEADS TO 700 FEET
TEMPERATURES TO 212°F



MODEL 133

MODEL 134-135

motralec

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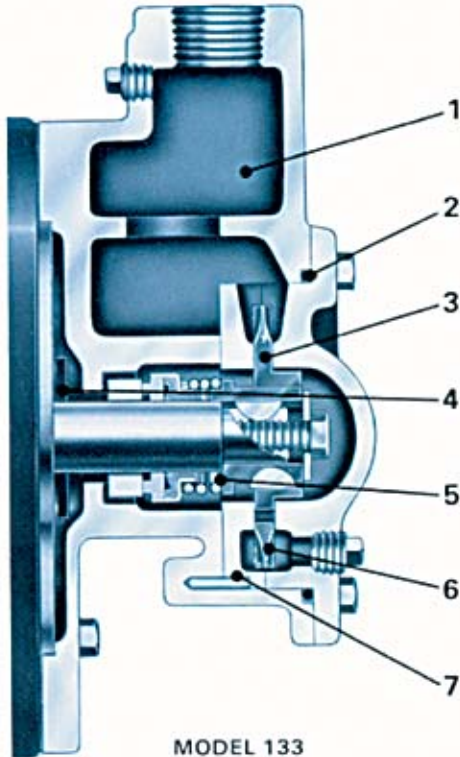
INTRODUCTION AURORA TURBINE PUMPS

AURORA PUMP, a pioneer in turbine pump design, has long been the leader in the turbine pump industry. AURORA's leadership consistently offers the ultimate in turbine pump design. The regenerative turbine pump offers many advantages in the

area of low flow and moderate to high pressure. A turbine pump is efficient under low flow—high pressure conditions and delivers a steady stream of liquid free from pressure pulsations. There is no metal to metal contact existing within the operating

parts of a turbine pump channel. Turbine pumps have solved many liquid handling problems. Because of this versatility, thousands of turbine pump units have been in use for over 50 years. Aurora offers an efficient, economical and proven pump.

PUMP FEATURES



MODEL 133

THEY'RE ECONOMICAL

End-mounted, close-coupled design with single mechanical seal and choice of 3500 RPM or 1750 RPM operating speeds means you get greater capacity and pressure dollar for dollar. In fact, these close-coupled pumps are so economical, it's practical to have a spare unit ready for immediate replacement when maintenance is required.

1 SELF PRIMING feature is provided on Model 133.

2 "O" RING GASKETS prevent leakage.

3 SELF-CENTERING IMPELLER minimizes wear.

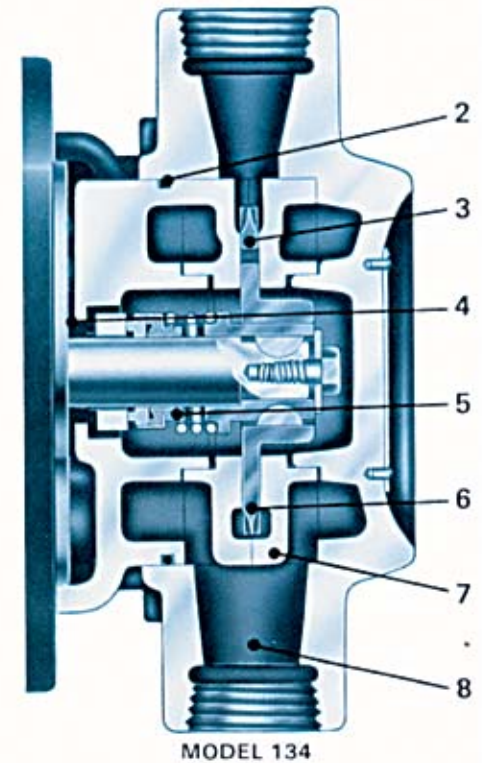
4 WATER SLINGERS protect bearings.

5 MECHANICAL SEAL has carbon against Ni-Resist face for optimum hot water performance. Long life is also assured with 303 stainless steel metal parts and "Buna-N" elastomers.

6 DOUBLE SUCTION IMPELLER minimizes axial thrust.

7 REPLACEABLE CHANNEL RINGS and impellers reduce maintenance costs.

8 STRAIGHT THROUGH IN LINE PIPING is provided on Models 134 and 135 for simple installation.



MODEL 134

THEY CAN'T "VAPOR LOCK"

Turbine impeller handles gases and vapors (up to 20%) along with the liquid . . . eliminating any possibility of vapor lock within the pump.

THEY'RE VERSATILE

Steep head curves with near-constant capacity over wide head variations means you can specify 130 Series Pumps for an extremely wide

range of operating conditions. And, if it's necessary, Model 134 and 135 pumps can be easily field converted to right- or left-hand operation by rotating the casing 180° after removing only 4 mounting bolts. Need a self-priming pump? Specify Model 133 with the self-priming feature. This feature has made Model 133 a popular pump selection. Aurora responds to user's needs.

QUICK REFERENCE APCO-TURBINE FEATURE SELECTOR

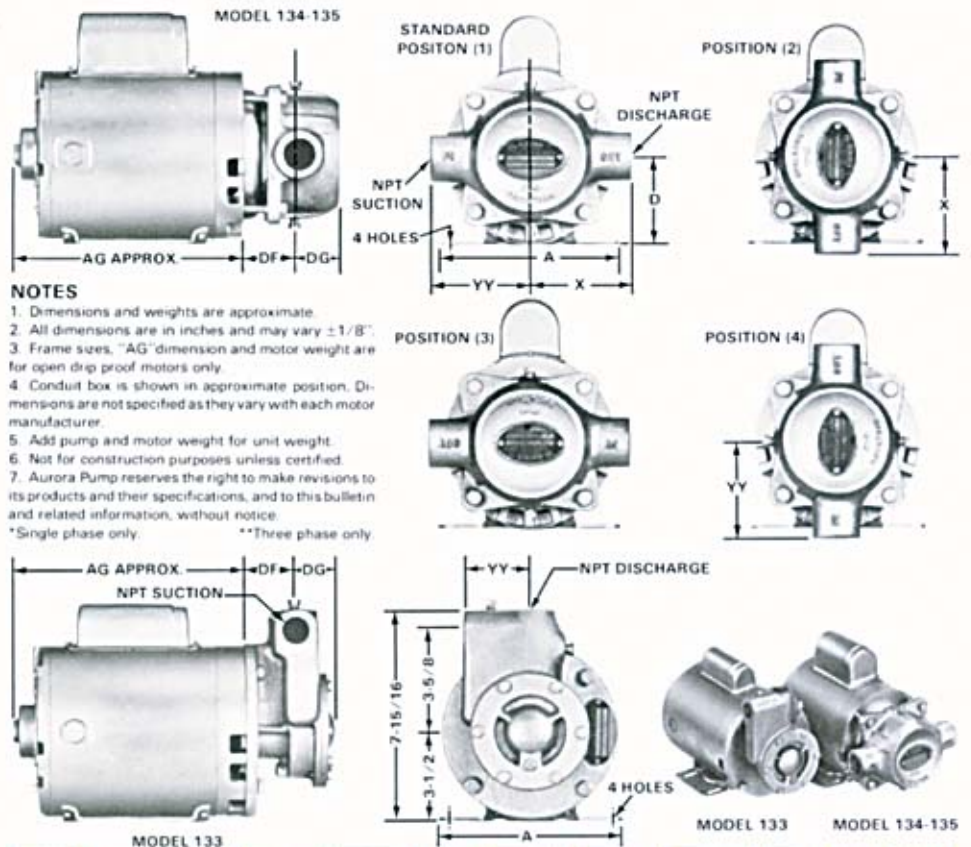
STANDARD

Bronze fitted construction
Hydraulically balanced bronze impeller
300# case working pressure
416 stainless steel shaft
Internal sealing water passages
Removable channel rings
VIP-TEST— Every pump is hydrostatically tested and given a running check consisting of head and capacity.

OPTIONAL

All iron, bronze ring, all bronze construction
Ductile iron or stain. stl. impeller
316 stainless steel or monel shaft
Vertical ASA Flanged suction casing (See Bulletin 680, Models 134 and 135 only)
Bypass with manual shut-off valves
Bypass with relief valve
Certified performance test data consisting of head capacity and horsepower readings taken over the full operating range of the pump.

The contractor shall furnish (and install as shown on the plans) an Aurora regenerative turbine type pump model size (Bronze Fitted) (All Iron) (All Bronze). Each pump shall have a capacity of G.P.M. when operating at a total head of feet. Pumping temperature is °F. Specific gravity is The fluid to be pumped is (describe) and NPSH of Suction pressure will be feet. The pump is to be furnished with mechanical seal, replaceable channel rings with in-line suction and discharge openings in casing. The casing shall be of 30,000 pound tensile strength cast iron. The impeller shall be hydraulically self-centering and no external adjustment shall be necessary. Each pump shall be tested prior to shipment. The pump shall be close coupled to a HP phase Hertz voltage R.P.M., horizontal (dripproof) (totally enclosed) (explosion proof) motor. For (continuous)(intermittent) operation in a °F maximum and °F minimum atmosphere. The motor shall be sized to prevent overloading at the highest head condition listed in the specifications.



- NOTES**
1. Dimensions and weights are approximate.
 2. All dimensions are in inches and may vary $\pm 1/8"$.
 3. Frame sizes, "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. Add pump and motor weight for unit weight.
 6. Not for construction purposes unless certified.
 7. Aurora Pump reserves the right to make revisions to its products and their specifications, and to this bulletin and related information, without notice.
- *Single phase only. **Three phase only.

Frame	Horsepower		Motor Weight (Lbs.)	A	D	AG	Model
	3500 RPM	1750 RPM					
56	1/2	1/2	29	6 1/4	3 1/2	11	133 134 135
	3/4	3/4	46				
	1	1	56				
	1 1/2	1 1/2**	65				
	2	—	80				
145T	—	1 1/2*	42	7	3 1/2	11	134 135
182T	3*	2**	65	9	4 1/2	11	
184T	5**	3**	69	9	4 1/2	12	
213T	—	5**	79	10 1/2	5 1/4	14	135
215T	10	—	105				
215T	15	—	125				
254T	20	—	200				

Model	133	134	135
Suction	3/4	1	2
Disch.	3/4	1	1 1/2
DF	1 1/4	2	2 1/4
DG	1 1/2	1 3/4	2 1/4
X	NA	3 1/4	4 1/2
YY	2 1/2	3 1/4	4 1/2
Pump Wt. (Lbs.)	13	16	30

MATERIALS OF CONSTRUCTION

PUMP PART	BRONZE FITTED	ALL IRON	ALL BRONZE
CASING	CAST IRON ASTM A48	CAST IRON ASTM A48	BRONZE ASTM B62
COVER (133)	CAST IRON ASTM A48	CAST IRON ASTM A48	BRONZE ASTM B62
IMPELLER	BRONZE ASTM B62	DUCTILE IRON ASTM A295	BRONZE ASTM B62
IMPELLER SLEEVE	BRONZE ASTM B62	STAIN. STEEL ASTM 316	BRONZE ASTM B62
INNER RING	CAST IRON ASTM A48	CAST IRON ASTM A48	BRONZE ASTM B62
OUTER RING (134-135)	CAST IRON ASTM A48	CAST IRON ASTM A48	BRONZE ASTM B62
MECHANICAL SEAL	316 stainless steel metal parts, Buna N elastomer parts, Ni-resid seat and carbon washer.		

LIMITATIONS

Pump Model	Pump Size	Max. Suct. Pressure P.S.I.	Max. Diff. Pressure P.S.I.	Max. Casing Pressure P.S.I.	Max. Temp. °F.	Min. Suct. Pressure Vac. in Hg	Motor Frame
133	G03 thru G03	100	150	175	225	26	145T 182T 184T
134	B04 C04 D04	100	225 190 180	300	225	26	
135	F05 G05 H05 I05 K05	100	280 250 220 175 150 130	300	225	26	
135	F05 thru K05	100	300	300	225	26	213T 215T 254T

- NOTES**
- 1 Maximum differential pressure based on allowable shaft deflection for standard shafts.
 - 2 Maximum casing pressure based on laboratory tests at twice the pressure shown.
 - 3 All pressure limitations on this chart are based on standard pumps constructed of standard materials and handling water at normal temperatures.
 - 4 For temperatures below 32°F., consult factory.
 - 5 Maximum suction pressure based on limitations of mechanical seal furnished as standard.
 - 6 Pumps should not be used when any one of the above limitations is exceeded.

NOTE: Aurora Pump reserves the right to make revisions to its products and their specifications, and to this bulletin and related information without notice.

— Your Authorized Local Distributor —

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