



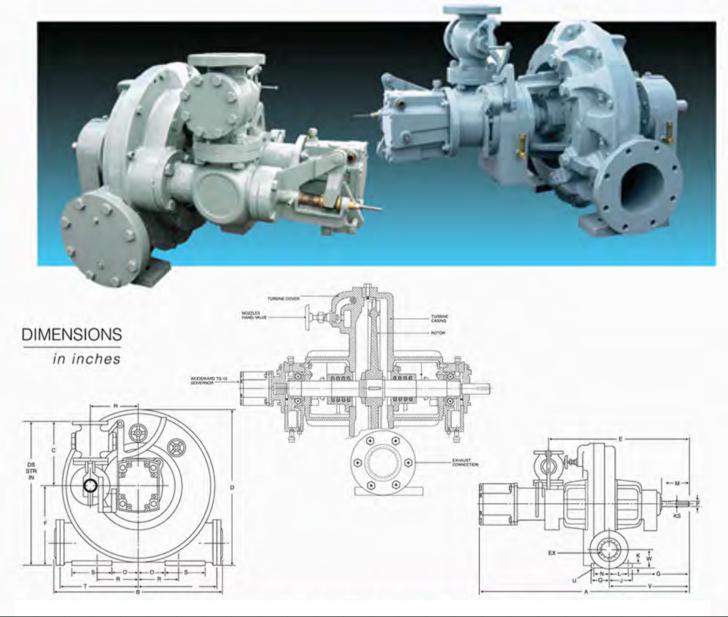
**PRIME** Single Stage Steam Turbines are fully equipped with:

- Woodward TG-13 oil relay governor
- Independent overspeed trip
- Sentinel warning valve
- Carbon ring packing
- One piece ductile iron rotor
- · Stainless steel blades
- 50,000 hour L-10 life ball bearings
- Oil or grease lubrication

## SPECIFICATIONS

ITEM	TYPE	12A	16A	20A	20AX	22A	23A	23AX
1	Maximum Inlet Press (psi)	600	600	600	600	600	600	600
2	Maximum Inlet Temperature (*F)	750	750	750	750	750	750	750
3	Maximum Exhaust Press (psi)	Vac-75						
4	Speed Range, R.P.M.	1000-5000	1000-4000	1000-4000	1000-4000	1000-4000	1000-4000	1000-4000
5	Maximum HP	120	300	300	350	980	980	980
6	Maximum Inlet Diameter (inches)	2	2	21/2	3	3	3	4
7	Exhaust Diameter (inches)	4	4	6	6	8	8	8
8	Hand Control Valves	0-1	0-2	0-3	0-3	0-4	0-4	0-4
	Approximate Shipping Weight (lbs)	550	700	850	970	1430	1710	1790

Direction of rotation and exhaust location on either side



Α	В	С	D	DS	E	F	G	Н	J	K	L	M	N	0	Р	Q	S	Т	U	V	W	KS	EX	WT. LBS
41 13/20	21	11 <sup>53</sup> / <sub>57</sub>	20	20 16/41	28 <sup>39</sup> / <sub>50</sub>	8 <sup>3</sup> / <sub>20</sub>	12 <sup>4</sup> / <sub>25</sub>	5 <sup>22</sup> / <sub>31</sub>	4 17/81	1 17/50	23/4	3 9/10	3 <sup>29</sup> / <sub>50</sub>	4 <sup>49</sup> / <sub>50</sub>	1 31/50	4 4/5	3 9/20	9 9/10	<sup>43</sup> / <sub>50</sub>	7 <sup>6</sup> / <sub>25</sub>	5 <sup>1</sup> / <sub>3</sub>	1/4 x 1/8	4	550
41	23 <sup>1</sup> / <sub>4</sub>	12	20	22	28	11	11	6 <sup>3</sup> / <sub>4</sub>	4 7/16	1 1/2	3	3	3	4 <sup>3</sup> / <sub>4</sub>	1 5/8	4 7/16	3 3/4	11	3/4	14	5 <sup>3</sup> / <sub>8</sub>	3/8 x 3/16	4	700
40 1/16	26 <sup>1</sup> / <sub>4</sub>	13 6/25	24 1/8	25 <sup>3</sup> / <sub>8</sub>	27 5/8	11 3/4	11 <sup>3</sup> / <sub>16</sub>	7 3/8	5 5/8	1 3/8	5 5/8	2 7/8	3	5 3/16	1 5/8	5	4 5/8	13 1/8	1	14 <sup>1</sup> / <sub>8</sub>	5 3/4	2 x 9/16	6	900
40 <sup>3</sup> / <sub>16</sub>	26 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>8</sub>	27 <sup>3</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>16</sub>	7 3/16	5 <sup>5</sup> / <sub>8</sub>	1 3/8	5 <sup>5</sup> / <sub>8</sub>	2 7/8	3	5 <sup>3</sup> / <sub>16</sub>	1 5/8	5	4 <sup>5</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>8</sub>	1	14 <sup>1</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>	2 x 9/16	6	970
52	31 3/4	15 <sup>1</sup> / <sub>4</sub>	30	30 1/2	35 <sup>3</sup> / <sub>4</sub>	15	15 <sup>7</sup> / <sub>8</sub>	15	5 7/8	1 1/4	4 9/16	5 <sup>1</sup> / <sub>8</sub>	4 9/16	6 1/4	2 1/4	6 <sup>1</sup> / <sub>4</sub>	5 1/2	15 1/4	1 1/2	20 1/4	7	1/2 x 1/4	8	1450
52 <sup>1</sup> / <sub>4</sub>	30	19 ¹/ <sub>4</sub>	28 <sup>5</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	38 <sup>1</sup> / <sub>8</sub>	14 1/2	16 <sup>1</sup> / <sub>2</sub>	9 5/16	6 <sup>1</sup> / <sub>4</sub>	1 1/4	4 9/16	5 <sup>1</sup> / <sub>2</sub>	4 9/16	7 1/2	2 1/4	6 <sup>1</sup> / <sub>4</sub>	5 1/2	15 <sup>1</sup> / <sub>4</sub>	2 5/8	20 3/4	7 1/4	1/2 x 1/4	8	1790
	41 40 <sup>1</sup> / <sub>16</sub> 40 <sup>3</sup> / <sub>16</sub>	41 23 <sup>1</sup> / <sub>4</sub> 40 <sup>1</sup> / <sub>16</sub> 26 <sup>1</sup> / <sub>4</sub> 40 <sup>3</sup> / <sub>16</sub> 26 <sup>1</sup> / <sub>4</sub>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$												



## MATERIAL SPECIFICATIONS

	Class 1	Class 2	Class 3
Maximum Steam Pressure	275 psig	450 psig	600 psig
Maximum Temperature (Total)	500°F	550°F	750°F
Nozzle Cover	Cast-Iron	Cast Steel	Cast Steel
Exhaust Casing	Cast-Iron	Cast-Iron	Cast Steel
Shaft	4140 Steel	4140 Steel	4140 Steel
Rotor	Ductile	Ductile	Ductile
Blading	Stainless Steel	Stainless Steel	Stainless Steel
Governor Valve Body	Cast-Iron	Cast Steel	Cast Steel
Governor Valve Parts	SS or Monel	SS or Monel	SS or Monel
Trip Governor Valve Body	Cast-Iron	Cast Steel	Cast Steel
Trip Governor Valve Parts	Stainless Steel	Stainless Steel	Stainless Steel
Hand Valves	Steel	Steel	Steel
Nozzles	Stainless Steel	Stainless Steel	Stainless Steel
Bearings	Ball Brgs.	Ball Brgs.	Ball Brgs.
Packing	Carbon	Carbon	Carbon
Constant Speed Governor	Oil Relay or Mechanical	Oil Relay or Mechanical	Oil Relay or Mechanical
Water cooling	Optional	Optional	Optional

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

## **PRIME** SINGLE STAGE STEAM TURBINES

...innovation - reliability - service



They have proven their performance as reliable, low maintenance mechanical drive applications.

These horizontal shaft turbines feature heavily ribbed, vertically split casings designed for easy access to turbine internal components.

YOUR LOCAL REPRESENTATIVE IS	
	 _

## PRIME - Air Blowers, Inc.

118 Cambridge Street, Worcester, MA 01603 Tel: (508) 755 5577 Fax: (508) 755 5548 **Toll-free:** 

1-877-3 BLOWER 1-877-(325-6937)