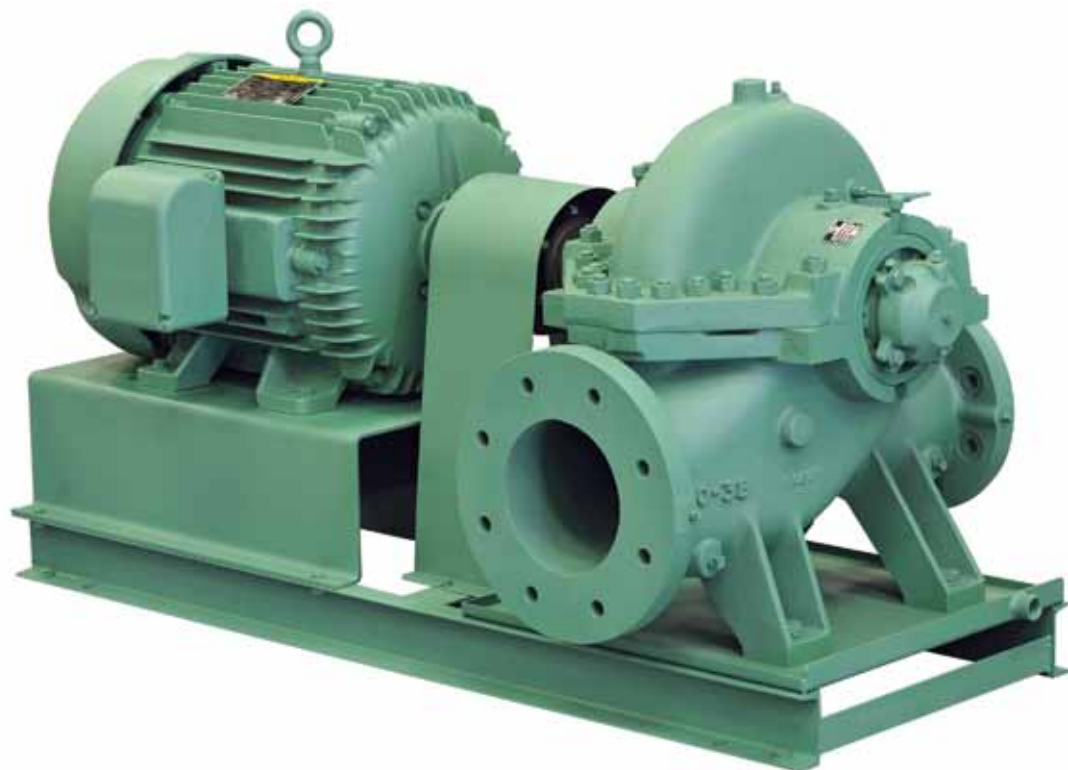


TA Series – Single Stage Double Suction Horizontal Split Case Pump

Taco's TA Series Pumps feature heavy-duty, long lasting quality for a variety of water circulation applications. Proven performance and longevity, balanced double-entry impeller design, and modular components are just a few of the TA Pumps' attributes. As a result, they require minimal maintenance but are easy to service when needed.



Features & Benefits

Six Major Benefits for TA Series Pump Users

- Maximum operating pressure of 300 PSI. The rugged, heavy-duty casing design allows higher working pressures
- Quick access for service and maintenance. The top half of the casing is easily removed to allow service of rotating unit without disturbing piping system.
- Low NPSH requirements and increased efficiency. The impeller is specifically designed to assure minimum NPSH and maximum pump efficiency as well as stable performance throughout the operating range.
- Compact arrangement increases seal and bearing life. The mechanical seal option reduces the shaft length and minimizes shaft deflection, thereby increasing both seal and bearing life.
- Balanced axial loads for maximum bearing life. The double suction design virtually eliminates axial thrust and reduces bearing loading. The bearings are heavy-duty type, grease lubricated.
- No need to replace casing if wear rings require service. The case wear rings are separate from the case itself and are replaceable.

Heavy-Duty Casing For Greater Strength

Extra heavy construction of the pump casing provides greater structural integrity and reduces the risk of distortion. The pump feet are cast integrally with the bottom half of the volute casing and extended to provide support to the inserts which carry the pump bearings.

Maintenance is Easy and Fast

With the top half of the casing removed, the complete pump rotating assembly can be withdrawn without disturbing the piping system. Pump inlet and outlet

flanges are cast in the bottom half casing. Flanges and casing are tapped and plugged for gauge and priming connections. An air release valve and flushing connections are provided in the upper casing. The top and bottom half casings are aligned by dowels, sealed by a gasket and bolted together.

High Efficiency Impeller

The impeller is generally of the double-entry type with Francis vanes, keyed to the shaft and locked in position. The impeller hubs are designed to accommodate impeller wear rings, if required. Impellers are balanced dynamically and hydraulically. Passage ways are smoothed for maximum efficiency.

Over 300 models, ranging from 1/40 HP to 400 HP offer the maximum flexibility to select the optimum pump design for the specific system requirements.

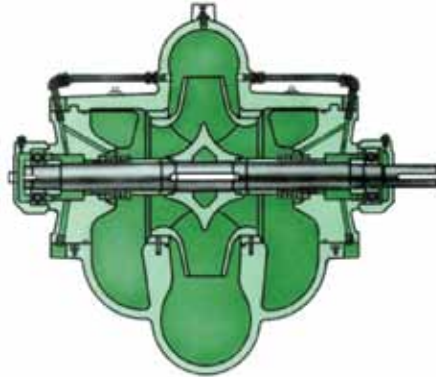
The full range of Taco products is more than pumps. Taco is also your single source company for a wide variety of HVAC and other hydronic specialty components including; multi-purpose valves, suction diffusers, heat transfer equipment, diaphragm tanks and more.

The TA Series Split Case Pump model represents a major advance in pump design. By utilizing a modular construction technique, pump performance from 60 GPM up to 6,000 GPM is available from just three basic bearing and shaft modules.

Modular construction results in:

- Multiple seal and construction options for application flexibility.
- Simplified maintenance
- Design flexibility to accommodate future performance needs.

TA Series Pump Construction & Specifications



Standard Mechanical Seal

MATERIALS OF CONSTRUCTION		
	Standard	Optional
Casing	Cast Iron	---
Impeller	Bronze	Cast Iron
Wear Ring	Bronze	Cast Iron
Shaft	Carbon Steel	Stainless Steel
Insert	Cast Iron	---
Shaft Sleeve	Bronze	Stainless Steel
OPERATING SPECIFICATIONS		
	Standard	Optional
Pressure	300 PSI Maximum Operating Pressure (125 ANSI or 250 ANSI Flanges Standard)	---
Mechanical Seal Temperature	250°F	300°F
Packing Temperature	250°F	300°F
Wear Rings	Case Wear Rings	Impeller Wear Rings
Seal Flushing	Recirculation Line	Filter & Abrasive Separators
Motors	All Standard NEMA Motors (T or TS)	---

Additional Options

- Drip Type Base
- Two Rotation Options
- Packed Stuffing Box
- Balanced Mechanical Seals



**Optional
Packing**

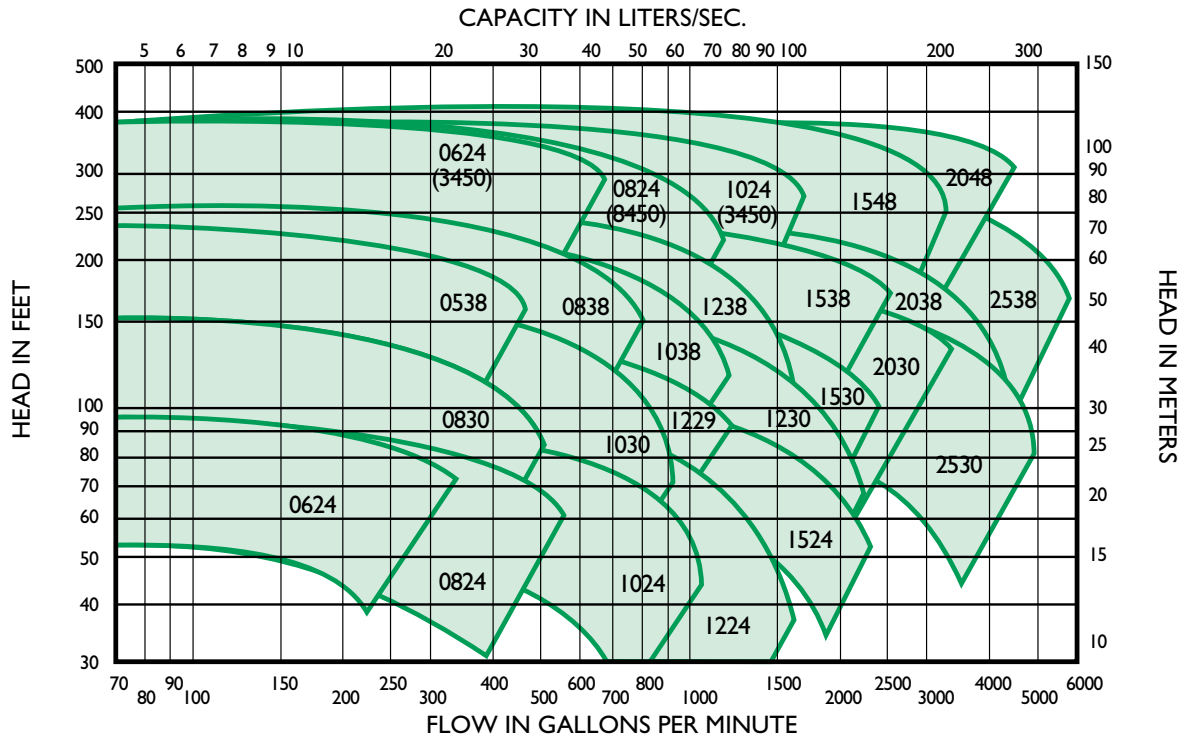


**Optional
Balanced Seal**

Commercial Hydronic Application Information

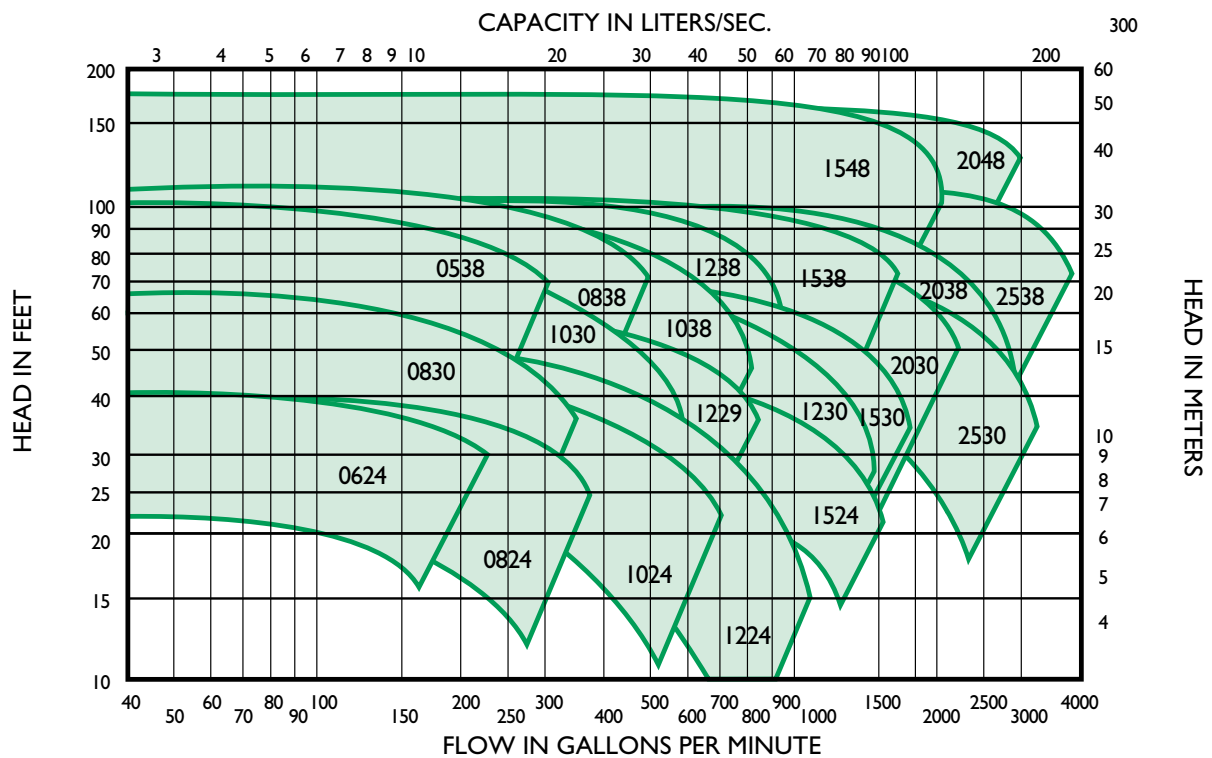
TA Series Performance Field 1750 RPM

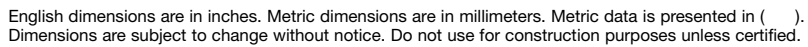
Curves also available on TacoNet.



TA Series Performance Field 1150 RPM

Curves also available on TacoNet.





Motor dimensions are approximate and vary by manufacturer and motor type.

Model No. Flange Size	Motor Frame	A DISCHARGE		B SUCTION		C	D	E	F	G	H	J	K	L	M	N	P					
		ANSI Class 125	ANSI Class 250	ANSI Class 125	ANSI Class 250																	
0538 3 × 2 (76 × 51)	213T	0.62 (16)	0.88 (22)	0.75 (19)	1.12 (28)	21.17 (538)	19.92 (506)	11.00 (279)	13.98 (355)	9.68 (246)	6.69 (170)	22.19 (564)	9.5 (241)	25.50 (648)	16.00 (406)	38.0 (965)	20.5 (521)					
	215T															48.0 (1219)	23.2 (589)					
	254T																27.8 (706)					
	256T																					
	284T																					
0624 3 × 2.5 (76 × 64)	145T	0.69 (18)	1.00 (25)	0.75 (19)	1.12 (28)	21.17 (538)	19.92 (506)	8.88 (226)	11.02 (280)	9.68 (246)	5.12 (130)	22.19 (564)	9.5 (241)	21.31 (541)	14.00 (356)	38.0 (965)	15.2 (386)					
	182T																18.5 (470)					
	184T																20.5 (521)					
	213T																					
	215T															48.0 (1219)	23.2 (589)					
	256T																27.8 (706)					
	284TS																30.3 (770)					
	286TS																33.4 (848)					
	324TS																					
	326TS																					
	364TS																					
	365TS																					
0824 4 × 3 (102 × 76)	182T	0.75 (19)	1.12 (28)	0.94 (24)	1.25 (32)	21.17 (538)	19.92 (506)	9.06 (230)	10.62 (270)	9.68 (246)	5.12 (130)	22.19 (564)	9.5 (241)	21.31 (541)	15.19 (386)	38.0 (965)	18.5 (470)					
	184T																20.5 (521)					
	213T																48.0 (1219)	23.2 (589)				
	215T																	27.8 (706)				
	254T															30.3 (770)						
	286TS															33.4 (848)						
	324TS					50.0 (1270)	38.3 (973)															
	326TS																					
	364TS																					
	365TS																					
	0830 4 × 3 (102 × 76)					404TS	0.75 (19)	1.12 (28)	0.94 (24)	1.25 (32)	23.17 (589)	21.92 (557)								15.19 (386)	38.0 (965)	18.5 (470)
						405TS															20.5 (521)	
184T		48.0 (1219)	23.2 (589)																			
213T																						
215T																						
254T																						
0838 4 × 3 (102 × 76)	213T	0.75 (19)	1.12 (28)	0.94 (24)	1.25 (32)	21.17 (538)	19.92 (506)	10.81 (275)	11.44 (291)	9.68 (246)	5.88 (149)	22.19 (564)	9.5 (241)	26.87 (682)	16.81 (427)	38.0 (965)	20.5 (521)					
	215T															48.0 (1219)	23.2 (589)					
	254T																27.8 (706)					
	256T																30.3 (770)					
	284T																					
	286T																					
	324T																					

DIMENSIONS

Motor dimensions are approximate and vary by manufacturer and motor type.

Model No. Flange Size	Motor Frame	A DISCHARGE		B SUCTION		C	D	E	F	G	H	J	K	L	M	N	P
		ANSI Class 125	ANSI Class 250	ANSI Class 125	ANSI Class 250												
1024 6 × 4 (152 × 102)	184T	0.94 (24)	1.25 (32)	1.00 (25)	1.44 (37)	21.17 (538)	19.92 (506)	9.81 (249)	12.19 (310)	11.81 (300)	6.69 (170)	27.75 (705)	9.5 (241)	27.00 (686)	17.57 (446)	40.0 (1016)	18.5 (470)
	213T																20.5 (521)
	215T																
	254T																23.2 (589)
	256T																
	364TS					54.0 (1372)	33.4 (848)										
	365TS																
	404TS					64.0 (1626)	38.3 (973)										
	405TS						44.6 (1133)										
444TS																	
445TS																	
1030 5 × 4 (127 × 102)	213T	0.94 (24)	1.25 (32)	0.94 (24)	1.38 (35)	21.17 (538)	19.92 (506)	10.80 (274)	12.62 (321)	9.68 (246)	6.69 (170)	22.19 (564)	9.5 (241)	25.87 (657)	16.81 (427)	38.0 (965)	20.5 (521)
	215T																
	254T															48.0 (1219)	23.2 (589)
	256T																27.8 (706)
	284T																
	286T																
324T		30.3 (770)															
1038 5 × 4 (127 × 102)	254T	0.94 (24)	1.25 (32)	0.94 (24)	1.38 (35)	21.17 (538)	19.92 (506)	13.75 (349)	13.38 (340)	11.81 (300)	7.50 (191)	27.75 (705)	9.5 (241)	28.50 (724)	17.57 (446)	50.0 (1270)	23.2 (589)
	256T																27.8 (706)
	284T																30.3 (770)
	286T																
	324T																
	326T															54.0 (1372)	33.4 (848)
	364T																
365T																	
1224 6 × 5 (152 × 127)	213T	0.94 (24)	1.38 (35)	1.00 (25)	1.44 (37)	21.17 (538)	19.92 (506)	9.81 (249)	13.78 (350)	10.94 (278)	7.08 (180)	24.63 (626)	9.5 (241)	26.50 (673)	17.49 (444)	38.0 (965)	20.5 (521)
	215T																
	254T															48.0 (1219)	23.2 (589)
	256T																27.8 (706)
	284T																
	286T																
1229 6 × 5 (152 × 127)	213T	0.94 (24)	1.38 (35)	1.00 (25)	1.44 (37)	21.17 (538)	19.92 (506)	11.44 (291)	12.19 (310)	9.68 (246)	6.31 (160)	22.19 (564)	9.5 (241)	26.44 (672)	17.57 (446)	38.0 (965)	20.5 (521)
	215T																
	254T															48.0 (1219)	23.2 (589)
	256T																27.8 (706)
	284T																
	286T																
324T		30.3 (770)															
1230 6 × 5 (152 × 127)	254T	0.94 (24)	1.38 (35)	1.00 (25)	1.44 (37)	21.17 (538)	19.92 (506)	11.44 (291)	13.19 (335)	10.94 (278)	6.88 (175)	24.63 (626)	9.5 (241)	27.19 (691)	17.57 (446)	48.0 (1219)	23.2 (589)
	256T																27.8 (706)
	284T																30.3 (770)
	286T																
	324T																
	364T					23.17 (589)	21.92 (557)	50.0 (1270)								33.4 (848)	
	365T																
1238 6 × 5 (152 × 127)	254T	0.94 (24)	1.38 (35)	1.00 (25)	1.44 (37)	21.17 (538)	19.92 (506)	13.75 (349)	15.75 (400)	11.81 (300)	8.25 (210)	27.75 (705)	9.5 (241)	31.81 (808)	19.57 (497)	50.0 (1270)	23.2 (589)
	256T																27.8 (706)
	284T																30.3 (770)
	286T																
	324T																
	326T					54.0 (1372)	33.4 (848)										
	364T					27.17 (690)	25.92 (658)	64.0 (1626)								38.3 (973)	
	365T																
	404T																
405T																	
1524 8 × 6 (203 × 152)	254T	1.00 (25)	1.44 (37)	1.13 (29)	1.62 (41)	21.17 (538)	19.92 (506)	12.19 (310)	14.38 (365)	10.94 (278)	7.50 (191)	24.63 (626)	9.5 (241)	28.81 (732)	19.57 (497)	48.0 (1219)	23.2 (589)
	256T																27.8 (706)
	284T																
	286T																
324T																	

TA Series Dimensions, continued

DIMENSIONS

Motor dimensions are approximate and vary by manufacturer and motor type.

Model No. Flange Size	Motor Frame	A DISCHARGE		B SUCTION		C	D	E	F	G	H	J	K	L	M	N	P
		ANSI Class 125	ANSI Class 250	ANSI Class 125	ANSI Class 250												
1530 8 × 6 (203 × 152)	254T	1.00 (25)	1.44 (37)	1.13 (29)	1.62 (41)	23.17 (589)	21.92 (557)	12.38 (314)	14.38 (365)	11.81 (300)	9.25 (235)	27.75 (705)	12.0 (305)	32.94 (837)	21.50 (546)	54.0 (1372)	23.2 (589)
	256T																
	284T																
	286T																
	324T																
	326T																
	364T																
365T																	
1538 8 × 6 (203 × 152)	284T	1.00 (25)	1.44 (37)	1.13 (29)	1.62 (41)	23.17 (589)	21.92 (557)	13.75 (349)	16.12 (409)	11.81 (300)	8.25 (210)	27.75 (705)	11.85 (301)	33.62 (854)	21.50 (546)	57.0 (1448)	27.8 (706)
	286T																30.3 (770)
	324T																33.4 (848)
	326T																33.4 (848)
	364T																38.3 (973)
	365T					68.0 (1727)	38.3 (973)										
	404T																
	405T																
	444T																
445T	44.6 (1133)																
1548 8 × 6 (203 × 152)	324T	1.00 (25)	1.44 (37)	1.13 (29)	1.62 (41)	27.17 (690)	25.92 (658)	17.69 (449)	20.06 (510)	14.50 (368)	10.62 (270)	34.13 (867)	13.52 (343)	43.25 (1099)	25.44 (646)	64.0 (1626)	30.3 (770)
	326T																33.4 (848)
	364T																38.3 (973)
	365T																44.6 (1133)
	404T																48.4 (1229)
	444T															80.0 (2032)	53.4 (1356)
	445T																
	447T																
	449T																
2030 10 × 8 (254 × 203)	256T	1.13 (29)	1.62 (41)	1.19 (30)	1.88 (48)	23.17 (589)	21.92 (557)	15.19 (386)	17.06 (433)	13.63 (346)	11.25 (286)	31.32 (796)	12.0 (305)	37.75 (959)	25.44 (646)	57.0 (1448)	23.2 (589)
	284T																27.8 (706)
	286T																30.3 (770)
	324T																33.4 (848)
	326T																38.3 (973)
	364T					60.0 (1524)	38.3 (973)										
	365T							68.0 (1727)	44.6 (1133)								
	404T																
	405T																
444T																	
2038 10 × 8 (254 × 203)	324T	1.13 (29)	1.62 (41)	1.19 (30)	1.88 (48)	27.17 (690)	25.92 (658)	17.69 (449)	18.88 (480)	14.50 (368)	8.88 (226)	34.13 (867)	13.52 (343)	35.69 (907)	22.31 (567)	64.0 (1626)	30.3 (770)
	326T																33.4 (848)
	364T																38.3 (973)
	365T																44.6 (1133)
	404T					80.0 (2032)	48.4 (1229)										
	444T																
	445T																
	447T																
2048 10 × 8 (254 × 203)	365T	1.13 (29)	1.62 (41)	1.19 (30)	1.88 (48)	27.17 (690)	25.92 (658)	17.69 (449)	21.65 (550)	14.50 (368)	10.62 (270)	34.13 (867)	13.52 (343)	42.94 (1091)	25.44 (646)	64.0 (1626)	33.4 (848)
	404T																38.3 (973)
	405T																44.6 (1133)
	444T																48.4 (1229)
	445T																53.4 (1356)
	447T					92.0 (2337)	67.2 (1707)										
	449T																
	G5010																
2524 10 × 10 (254 × 254)	256T	1.19 (30)	1.88 (48)	1.19 (30)	1.88 (48)	23.17 (589)	21.92 (557)	13.38 (340)	19.31 (490)	13.63 (346)	8.25 (210)	31.44 (799)	12.0 (305)	33.56 (852)	21.50 (546)	57.0 (1448)	23.2 (589)
	284T																27.8 (706)
	286T																30.3 (770)
	324T																33.4 (848)
	326T																38.3 (973)
	364T																44.6 (1133)
	365T																48.4 (1229)

TA Series Dimensions, continued

DIMENSIONS

Motor dimensions are approximate and vary by manufacturer and motor type.

Model No. Flange Size	Motor Frame	A DISCHARGE		B SUCTION		C	D	E	F	G	H	J	K	L	M	N	P
		ANSI Class 125	ANSI Class 250	ANSI Class 125	ANSI Class 250												
2530 10 x 10 (254 x 254)	284T	1.19 (30)	1.88 (48)	1.19 (30)	1.88 (48)	23.17 (589)	21.92 (557)	15.75 (400)	16.94 (430)	13.63 (346)	9.81 (249)	31.32 (796)	12.00 (305)	38.06 (967)	25.44 (646)	57.0 (1448)	27.8 (706)
	286T																30.3 (770)
	324T																33.4 (848)
	326T																33.4 (848)
	364T					27.17 (690)	25.91 (658)	15.75 (400)	16.94 (430)	13.63 (346)	9.81 (249)	31.32 (796)	11.56 (294)	38.06 (967)	25.44 (646)	57.0 (1448)	33.4 (848)
	365T																33.4 (848)
	404T																33.4 (848)
	405T																33.4 (848)
	444T																33.4 (848)
	445T																33.4 (848)
	445T																33.4 (848)
2538 12 x 10 (305 x 254)	364T	1.19 (30)	1.88 (48)	1.25 (32)	2.00 (51)	27.17 (690)	25.92 (658)	17.69 (449)	23.23 (590)	14.50 (368)	10.40 (264)	34.13 (867)	13.52 (343)	44.00 (1118)	25.44 (646)	64.0 (1626)	33.4 (848)
	365T																33.4 (848)
	404T																33.4 (848)
	405T																33.4 (848)
	444T																33.4 (848)
	445T																33.4 (848)
	447T																33.4 (848)
	449T																33.4 (848)

LENNTECH
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