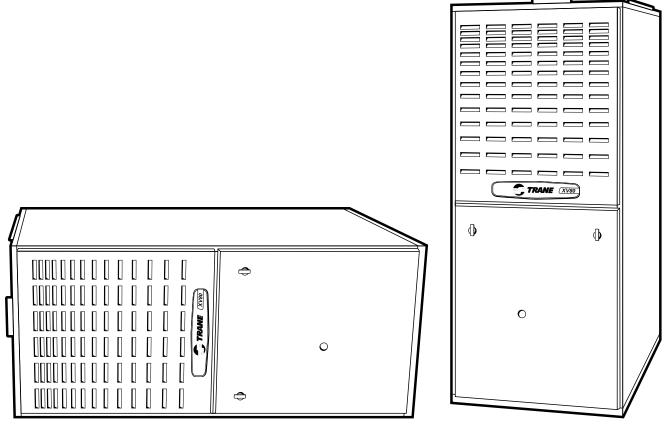


Upflow/Horizontal 80% 2-Stage, Variable Speed Gas-Fired Furnace with Whole House Air Cleaner

# XV80i

TUD2B060AFV32A, TUD2B080AFV32A, TUD2C080AFV42A, TUD2B100AFV32A, TUD2D120AFV52A



PUB. NO. 22-1802-03



### **Features Summary**

### WHOLE HOUSE AIR CLEANER

The Whole House Air Cleaner uses advanced technology to remove up to 99.98% of allergens from the filtered air and removes particles down to .3 microns in size. Cleaning intervals of 1-3 months are typical, depending on the home environment.

### NATURAL GAS MODELS

Central Heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

### SAFE OPERATION

The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide extra safety.

### QUICK HEATING

Durable, cycle tested, heavy gauge aluminized steel heat exchanger quickly transfers heat to provide warm conditioned air to the structure. Low energy power vent blower, to increase efficiency and provide a positive discharge of gas fumes to the outside.

### BURNERS

Multiport In-shot burners will give years of quiet and efficient service. All models can be converted to L.P. gas.

### INTEGRATED SYSTEM CONTROL

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. Also contains connection points for humidifier.

### AIR DELIVERY

The variable speed, direct drive blower motor, has sufficient airflow for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed.

### STYLING

Heavy gauge steel and "wrap-around" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass. Built-in bottom pan and bottom return air connection.

### FEATURES AND GENERAL OPERATION

The XV80i High Efficiency Gas Furnaces employ a Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter
- b. Vent proving pressure switch.



### Contents

Feature Summary	2
Features and Benefits	4
Standard Equipment	
Optional Equipment	
General Data	6
TUD2B060AFV32A	
TUD2B080AFV32A	
TUD2C080AFV42A	
TUD2B100AFV42A	
TUD2D120AFV52A	
Performance Data	8
Electric Data	13
Field Wiring Diagrams	15
Dimensions	00



### Features and Benefits

### XV80i STANDARD EQUIPMENT

- Whole House Air Cleaner
- Upflow/Horizontal
- Power supply 115/1/60
- 2-stage gas valve
- $\bullet 2\text{-speed venter}$
- Variable speed ECM blower motor
- Silicon Nitride hot surface igniter with adaptive heat up
- Integrated solid state control
- Attractive color accents
- Heavy gauge aluminized steel heat exchanger
- Multi-port In-shot burners
- Complete front service access
- Alternate bottom/left/right return air
- Slide out blower assembly
- Hinged blower door

- Perfect fit door catches
- $\bullet$  Insulated bower door
- $\bullet \, {\rm Gasketed} \, {\rm blower} \, {\rm door}$
- $\bullet\, Two\, tone\, color$
- Integrated solid state control with self-diagnostics
- Common vent capability
- Optional L.P. conversion kit
- $\bullet \, {\rm Left/right\,gas\,connection}$
- Accessory hook-up capability
- Selectable cooling fan off delay eliminates need for BAY24X045time delay kit
- Enhanced cooling control



# Features and Benefits

### XV80i OPTIONAL EQUIPMENT

Thermostat, Mechanical 2-Stage Heating/ 1-Stage Cooling Thermostat, Mechanical Heating Only With Fan Switch Thermostat, Mechanical Heating Only Thermostat, Heating/Cooling Single Stage (Mounts Horizontally) Thermostat, Electronic Non-programmable 1-Stage Heating/1-Stage Cooling Thermostat, Electronic Programmable (5-2) 1-Stage Heating/1-Stage Cooling Thermostat, Heating/Cooling Single Stage (Mounts Vertically) Thermostat, Heating/Cooling Single Stage (Mounts Vertically) Thermostat, Electronic Programmable 2-Stage Heating/2-Stage Cooling Thermostat, Electronic Programmable 1-Stage Heating/1-Stage Cooling Thermostat, Electronic Programmable 1-Stage Heating/1-Stage Cooling Coil Enclosure (17-1/2" Wide Cabinets) Coil Enclosure (21" Wide Cabinets)	BAYSTAT303 [ ] BAYSTAT388 [ ] AY28X092 [ ] BAYSTAT370 [ ] BAYSTAT370 [ ] BAYSTAT340 [ ] BAYSTAT305 [ ] TAYSTAT302C [ ] BAYLPKT210A [ ] BAYLPKT210A [ ]
	BAYCLE1700 [ ] BAYCLE2100 [ ] BAYCLE2400 [ ] BAYHALT249 [ ]



# General Data

	Product Spe	ecifications <sup>1</sup>	
MODEL	*UD2B060AFV32A	*UD2B080AFV32A	*UD2C080AFV42A
ТҮРЕ	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
RATINGS 2			
1st Stage Input BTUH	39,000	52,000	52,000
1st Stage Capacity BTUH (ICS) ③	31,200	41,600	41,600
2nd Stage Input BTUH	60,000	80,000	80,000
2nd Stage Capacity BTUH (ICS) ③	48,000	64,000	64,000
Temp. rise (MinMax.) °F.	30 - 60	30 - 60	30 - 60
BLOWER DRIVE	Direct	Direct	Direct
Diameter - Width (In.)	10 x 7	10 x 7	10 x 10
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Airflow Table	See Airflow Table	See Airflow Table
Motor HP	1/2	1/2	3/4
R.P.M.	Variable	Variable	Variable
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60
COMBUSTION FAN — Type	Centrifugal	Centrifugal	Centrifugal
Drive - No. Speeds	Direct - 2	Direct - 2	Direct - 2
Motor HP - RPM	1/100 - 2543/1727	1/100 - 2543/1727	1/100 - 2543/1727
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60
FLA	0.70/0.40	0.70/0.40	0.70/0.40
FILTER — Furnished?	0.70/0.40 Yes	<u> </u>	0.70/0.40
Туре	Whole House Air Cleaner	Whole House Air Cleaner	Whole House Air Cleaner
Max. Indoor Relative Humidity 5	65%	65%	65%
VENT — Size (In.)	4 Round	4 Round	4 Round
HEAT EXCHANGER	4 Noulid		4 NOULIU
Type -Fired	Alum Stool Tuno 1	Alum Steel Turne 1	Alum. Steel - Type 1
-Unfired	Alum. Steel - Type 1	Alum. Steel - Type 1	Alum. Steer - Type T
Gauge (Fired)	20	20	20
ORIFICES — Main	20	20	20
Nat. Gas. Qty. — Drill Size	2 45	4 — 45	4 — 45
L.P. Gas Qty. — Drill Size	3-45	-	
GAS VALVE	<u>3-56</u>	4-56	4-56
PILOT SAFETY DEVICE	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
	List Curfo as Ismitian	List Curfo so Ismitian	List Curfo on Invition
Type BURNERS — Type	Hot Surface Ignition	Hot Surface Ignition	Hot Surface Ignition
Number	Multi-port In-shot	Multi-port In-shot	Multi-port In-shot
POWER CONN. — V / Ph / Hz ④	3	4	4
	115/1/60	115/1/60	115/1/60
Ampacity (In Amps)	10.5	10.5	12.9
Max. Overcurrent Protection (Amps)	15	15	20
PIPE CONN. SIZE (In.)	1/2	1/2	1/2
	H x W x D		H x W x D
Crated (In.)	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 23 x 30-1/2
Uncrated (In.)	40 x 17-1/2 x 28-1/2	40 x 17-1/2 x 28-1/2	40 x 21 x 28-1/2
WEIGHT	100 / 100		
Shipping (Lbs.) / Net (Lbs.)	136 / 126	142 / 132	166 / 155

#### . .

① Central Furnace heating designs are certified by AGA and CSA.
② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

③ Based on U.S. government standard tests.

 The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.
The FIELD CHARGER may require more frequent cleaning in homes with high indoor relative humidity (greater than 65% RH). Consult your service professional about cleaning intervals.

PUB. NO. 22-1802-03



## General Data

	Product Specifications <sup>①</sup>	
MODEL	*UD2B100AFV32A	*UD2D120AFV52A
ТҮРЕ	Upflow / Horizontal	Upflow / Horizontal
RATINGS 2		
1st Stage Input BTUH	65,000	78,000
1st Stage Capacity BTUH (ICS) ③	52,000	62,400
2nd Stage Input BTUH	100,000	120,000
2nd Stage Capacity BTUH (ICS) ③	80,000	97,000
Temp. rise (MinMax.) °F.	40 - 70	35 - 65
BLOWER DRIVE	Direct	Direct
Diameter - Width (In.)	10 x 7	10 x 10
No. Used	1	1
Speeds (No.)	Variable	Variable
CFM vs. in. w.g.	See Airflow Table	See Airflow Table
Motor HP	1/2	1
R.P.M.	Variable	Variable
Volts / Ph / Hz	115/1/60	115/1/60
COMBUSTION FAN — Type	Centrifugal	Centrifugal
Drive - No. Speeds	Direct - 2	Direct - 2
Motor HP - RPM	1/75 - 2708/1868	1/60 - 3090/2225
Volts / Ph / Hz	115/1/60	115/1/60
FLA	0.87/0.49	1.14/0.51
FILTER — Furnished?	Yes	Yes
Туре	Whole House Air Cleaner	Whole House Air Cleaner
Max. Indoor Relative Humidity (5)	65%	65%
VENT — Size (In.)	4 Round	4 Round
HEAT EXCHANGER	i i i i i i i i i i i i i i i i i i i	1 Hound
Type -Fired	Alum. Steel - Type 1	Alum. Steel - Type 1
-Unfired		
Gauge (Fired)	20	20
ORIFICES — Main	20	20
Nat. Gas. Qty. — Drill Size	5-45	6-45
L.P. Gas Qty. — Drill Size	5-56	6-56
GAS VALVE	Redundant - Two Stage	Redundant - Two Stage
PILOT SAFETY DEVICE	riedundanit - rwo otage	
Туре	Hot Surface Ignition	Hot Surface Ignition
BURNERS — Type	Multi-port In-shot	Multi-port In-shot
Number	5	6
POWER CONN. — V / Ph / Hz ④	115/1/60	115/1/60
Ampacity (In Amps)	10.8	15.3
Max. Overcurrent Protection (Amps)	10.8	20
PIPE CONN. SIZE (In.)	1/2	1/2
DIMENSIONS	H x W x D	H x W x D
Crated (In.)	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 26-1/2 x 30-1/2
Uncrated (In.)	40 x 17-1/2 x 28-1/2	41-3/4 x 20-1/2 x 30-1/2 40 x 24-1/2 x 28-1/2
WEIGHT	4U A 1/ 1/2 A 20° 1/2	40 1 24-1/2 2 20-1/2
Shipping (Lbs.) / Net (Lbs.)	142 / 132	193 / 181
	142/102	1307 101

① Central Furnace heating designs are certified by AGA and CSA.

© For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

③ Based on U.S. government standard tests.

 The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.
The FIELD CHARGER may require more frequent cleaning in homes with high indoor relative humidity (greater than 65% RH). Consult your service professional about cleaning intervals.



	*UD2B	060AFV32A	Furnace He	eating Airflo	w (CFM) and	Power (wa	tts) vs. Exte	rnal Static I	Pressure W	ith Filter
		Airflow	Dip Swite	ch Setting			Extern	al Static Pr	essure	
		Setting	SW7	SW8		0.1	0.3	0.5	0.7	0.9
					CFM	583	590	625	622	620
		Low	ON	ON	Temp. Rise	50	49	46	46	47
					Watts	60	87	126	157	192
	Heating				CFM	635	687	701	695	694
	1st Stage	Medium**	ON	OFF	Temp. Rise	45	42	41	42	42
	13t Otage				Watts	69	110	148	183	221
Heating					CFM	746	778	803	819	823
ati		High	OFF	OFF	Temp. Rise	39	37	36	35	35
1	High			Watts	97	140	185	230	272	
_					CFM	779	816	848	866	874
		Low	ON	ON	Temp. Rise	57	54	52	51	51
					Watts	104	152	201	255	302
	Heating				CFM	872	939	964	976	985
	2nd	Medium**	ON	OFF	Temp. Rise	51	47	46	46	45
	Stage				Watts	136	203	264	312	365
					CFM	1069	1102	1102	1110	1078
		High	OFF	OFF	Temp. Rise	42	40	40	40	41
					Watts	227	293	345	403	429

		*UD2B060	AFV32A F	urnace Coo	ling Airflow (0	CFM) and P	ower (Watts	s) vs. Extern	al Static Pr	essure With	Filter	
	Unit	Airflow		Dip Swit	ch Setting				Extern	al Static Pre	essure	
	Outdoor	Setting	SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
		Low (350	ON	ON	OFF	ON	CFM	517	535	538	546	542
		CFM/Ton)	ON		011		Watts	49	76	105	141	171
	1.5	Normal (400	ON	ON	OFF	OFF	CFM	587	594	629	622	618
	1.5	CFM/ton)	ON		011	OIT	Watts	61	89	129	159	196
		High (450	ON	ON	ON	OFF	CFM	642	677	705	701	696
		CFM/ton)	ON	ON		OIT	Watts	73	109	151	185	222
		Low (350	OFF	ON	OFF	ON	CFM	676	705	729	736	738
		CFM/Ton)	ULI	ON	011	ON	Watts	79	118	159	198	240
	2	Normal (400	OFF	ON	OFF	OFF	CFM	776	814	833	863	867
	2	CFM/ton)	ULI		011	0	Watts	103	150	200	251	298
		High (450	OFF	ON	ON	I OFF	CFM	870	928	961	974	975
		CFM/ton)	ULI	ON		OIT	Watts	137	198	259	316	361
Cooling		Low (350	ON	OFF	OFF	ON	CFM	831	883	915	935	941
ij		CFM/Ton)		011	OFF		Watts	122	182	238	292	345
8	2.5	Normal (400	ON	OFF	OFF	OFF	CFM	1023	1052	1055	1061	1048
C	2.5	CFM/ton)	ON	011	011	OIT	Watts	203	266	316	370	413
		High (450	ON	OFF	ON	OFF	CFM	1156	1174	1188	1196	1085
		CFM/ton)		011		011	Watts	280	351	415	482	442
		Low (350	OFF	OFF	OFF	ON	CFM	1063	1094	1090	1100	1070
		CFM/Ton)					Watts	226	290	344	397	430
	3**	Normal**	OFF	OFF	OFF	OFF	CFM	1214	1241	1263	1234	1123
	3	(400	011		011		Watts	320	395	476	514	469
		High (450	OFF	OFF	ON	OFF	CFM	1399	1409	1377	1278	1164
		CFM/ton)	011		511		Watts	486	575	604	559	507

Notes:

1. \* First letter may be "A" or "T".

2. \*\* Factory setting.

3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.

4. For variable speed low speed airflows are approximately 30% of listed values.

5. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.



	*UD2B	080AFV32A	Furnace He	eating Airflo	w (CFM) and	Power (wa	tts) vs. Exte	rnal Static I	Pressure W	ith Filter
		Airflow	Dip Swite	h Setting			Extern	al Static Pro	essure	
		Setting	SW7	SW8		0.1	0.3	0.5	0.7	0.9
					CFM	846	852	836	811	810
		Low	ON	ON	Temp. Rise	46	45	46	48	48
					Watts	127	167	200	229	270
	Heating				CFM	969	956	936	915	897
	1st Stage	Medium**	ON	OFF	Temp. Rise	40	40	41	42	43
5	13t Olage				Watts	182	218	251	283	317
Heating					CFM	1126	1116	1108	1095	1074
at		High	OFF	OFF	Temp. Rise	34	35	35	35	36
He He	Hig				Watts	270	316	361	404	441
1					CFM	1216	1205	1189	1169	1111
		Low	ON	ON	Temp. Rise	49	49	50	51	53
					Watts	333	383	429	468	473
	Heating				CFM	1362	1347	1324	1254	1145
	2nd	Medium**	ON	OFF	Temp. Rise	44	44	45	47	52
	Stage				Watts	468	518	559	550	500
					CFM	1474	1419	1370	1258	1148
		High	OFF	OFF	Temp. Rise	40	42	43	47	52
					Watts	590	601	609	558	506

		*UD2B080	AFV32A F	urnace Coo	ling Airflow (C	CFM) and P	ower (Watts	s) vs. Externa	al Static Pre	essure With	Filter	
	Unit	Airflow		Dip Swit	ch Setting				Externa	al Static Pre	ssure	
	Outdoor	Setting	SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
		Low (350	OFF	ON	OFF	ON	CFM	934	926	913	889	863
		CFM/Ton)	OIT		011		Watts	162	201	236	267	296
	2.5	Normal (400	OFF	ON	OFF	OFF	CFM	1063	1051	1042	1029	1008
	2.5	CFM/ton)	ULI	ON	011	011	Watts	228	272	315	356	394
		High (450	OFF	ON	ON	OFF	CFM	1220	1212	1199	1179	1119
		CFM/ton)	OIT		ON	OFF	Watts	334	386	433	471	475
		Low (350	ON	OFF	OFF	ON	CFM	1131	1122	1111	1101	1083
	3	CFM/Ton)	ON	01	011	ON	Watts	269	317	361	405	442
		Normal (400	ON	OFF	OFF	OFF	CFM	1310	1295	1273	1246	1136
Cooling	3	CFM/ton)		OFF	011	OIT	Watts	405	457	498	535	490
lir		High (450	ON	OFF	ON	OFF	CFM	1458	1420	1369	1266	1154
00		CFM/ton)	ON			011	Watts	569	599	606	561	506
C		Low (350	OFF	OFF	OFF	ON	CFM	1329	1310	1287	1253	1142
		CFM/Ton)	OIT		011		Watts	424	472	516	542	493
	3 5**	Normal (400	OFF	OFF	OFF	OFF	CFM	1475	1422	1369	1272	1158
	3.5**	CFM/ton)	0.1		011		Watts	585	596	605	563	510
		High (450	OFF	OFF	ON	OFF	CFM	1473	1421	1367	1269	1152
		CFM/ton)	0.1		ON		Watts	585	595	605	558	505
	Notes:						rpm	1192	1239	1285	1303	1315

 \* First letter may be "A" or "T".
\*\* Factory setting.
Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.
For variable speed low speed airflows are approximately 30% of listed values.
LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.



	*UD2C	080AFV42A	Furnace He	eating Airflo	w (CFM) and	Power (wa	tts) vs. Exte	rnal Static I	Pressure W	ith Filter
		Airflow	Dip Swite	h Setting			Extern	al Static Pr	essure	
		Setting	SW7	SW8	] [	0.1	0.3	0.5	0.7	0.9
					CFM	745	758	758	761	735
		Low	ON	ON	Temp. Rise	52	51	51	51	52
					Watts	68	111	153	197	231
	Heating				CFM	839	864	851	851	822
	1st Stage	Medium**	ON	OFF	Temp. Rise	46	45	45	45	47
5	TSt Stage				Watts	87	134	181	224	263
Heating					CFM	934	961	943	941	933
ati		High	OFF	OFF	Temp. Rise	41	40	41	41	41
P P					Watts	110	164	211	263	310
-					CFM	1064	1077	1085	1086	1077
		Low	ON	ON	Temp. Rise	56	55	55	55	55
					Watts	152	205	262	325	379
	Heating				CFM	1197	1226	1241	1230	1229
	2nd	Medium**	ON	OFF	Temp. Rise	50	48	48	48	48
	Stage				Watts	201	271	338	395	462
					CFM	1345	1375	1376	1371	1320
		High	OFF	OFF	Temp. Rise	44	43	43	43	45
					Watts	272	348	418	480	517

	*UD2C080	AFV42A F		ling Airflow (	CFM) and F	ower (Watts	s) vs. Extern				
Unit	Airflow			ch Setting			External Static Pressure				
Outdoor	Setting	SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
	Low (350	ON	ON	OFF	ON	CFM	840	862	850	846	824
	CFM/Ton)	ON		011		Watts	87	135	182	223	264
2.5	Normal (400	ON	ON	OFF	OFF	CFM	962	977	974	973	965
2.5	CFM/ton)			011	OIT	Watts	118	167	221	276	320
	High (450	ON	ON	ON	OFF	CFM	1076	1095	1104	1102	1096
	CFM/ton)	ON			011	Watts	153	212	271	331	390
	Low (350	OFF	ON	OFF	ON	CFM	1004	1018	1016	1019	1007
	CFM/Ton)	OFF		OFF	ON	Watts	130	183	236	297	343
3	Normal (400	OFF	ON	OFF	OFF	CFM	1143	1176	1187	1184	1180
5	CFM/ton)	011		011	011	Watts	180	267	311	368	436
	High (450	OFF	F ON	N ON	OFF	CFM	1303	1334	1337	1334	1296
	CFM/ton)	OFF		ON	OFF	Watts	252	326	394	456	502
	Low (350	ON	OFF	OFF	ON	CFM	1167	1193	1208	1196	1193
	CFM/Ton)	ON	OFF	OFF		Watts	190	255	321	378	443
3.5	Normal (400	ON	OFF	OFF	OFF	CFM	1356	1378	1383	1358	1321
5.5	CFM/ton)	ON	01	011	011	Watts	279	355	424	473	518
	High (450	ON	OFF	ON	OFF	CFM	1521	1528	1537	1537	1344
	CFM/ton)	ON	OFF	ON	OFF	Watts	379	545	534	606	556
	Low (350	OFF	OFF	OFF	ON	CFM	1351	1376	1377	1364	1312
	CFM/Ton)	UFF	UFF	UFF		Watts	275	357	422	467	515
4**	Normal**	OFF	OFF	OFF	OFF	CFM	1537	1548	1561	1534	1347
1	(400	UFF	UFF	UFF	UFF	Watts	392	468	552	606	538
	High (450	OFF	OFF	ON	OFF	CFM	1738	1755	1735	1568	1382
	CFM/ton)	UFF	UFF	UN	OFF	Watts	543	652	708	635	563

Notes:

1. \* First letter may be "A" or "T".

2. \*\* Factory setting.
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.

4. For variable speed low speed airflows are approximately 30% of listed values.

5. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.



<u> </u>	*UD2B	100AFV32A	Furnace He	eating Airflo	w (CFM) and	Power (wa	tts) vs. Exte	rnal Static I	Pressure W	ith Filter
		Airflow		h Setting				al Static Pr		
		Setting	SW7	SW8		0.1	0.3	0.5	0.7	0.9
					CFM	764	795	832	852	848
		Low	ON	ON	Temp. Rise	63	61	58	56	57
					Watts	103	147	195	242	280
	Heating				CFM	875	938	963	974	959
	1st Stage	Medium**	ON	OFF	Temp. Rise	55	60	58	57	58
5	13t Otage				Watts	139	200	259	305	344
Ĕ					CFM	984	1029	1040	1039	980
Heating		High	OFF	OFF	Temp. Rise	49	47	46	46	49
۹ I					Watts	185	253	304	347	357
-					CFM	1118	1138	1157	1125	1018
		Low	ON	ON	Temp. Rise	66	65	64	66	73
					Watts	262	326	390	417	383
	Heating				CFM	1310	1335	1277	1192	1097
	2nd	Medium**	ON	OFF	Temp. Rise	57	55	58	62	68
	Stage				Watts	411	498	498	472	441
					CFM	1413	1399	1322	1233	1148
		High	OFF	OFF	Temp. Rise	52	53	56	60	65
					Watts	512	566	541	514	484

		AFV32A F		<b>e</b> (	CFM) and P	ower (Watts	s) vs. Extern				
Unit	or     Setting     SW1     SW2     SW3     S       Low (350 CFM/Ton)     ON     ON     ON     OFF     O       Normal (400 CFM/ton)     ON     ON     ON     OFF     O       High (450 CFM/ton)     ON     ON     ON     OFF     O       Low (350 CFM/Ton)     OFF     ON     OFF     O     OFF       Normal (400 CFM/ton)     OFF     ON     OFF     O     OFF     O       High (450 CFM/ton)     OFF     ON     OFF     O     O     O       High (450 CFM/ton)     OFF     ON     OFF     O     O     O       Low (350 CFM/Ton)     OFF     ON     OFF     OFF     O     O       Low (350 CFM/Ton)     ON     OFF     OFF     OFF     O     O     O       Normal (400     ON     OFF     OFF     O     O     O     O						External Static Pressure				
Outdoor	Setting	SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
	Low (350		ON	OFF	ON	CFM	538	556	574	579	570
	CFM/Ton)	ON		011		Watts	54	80	113	145	176
1.5	Normal (400	ON		OFF	OFF	CFM	598	626	654	647	647
1.5	CFM/ton)	ON		011	0.11	Watts	64	94	131	162	200
	High (450				OFF	CFM	657	706	713	724	730
	CFM/ton)	ON	ON	ON	UFF	Watts	75	116	151	187	227
	Low (350	OFF		OFF	ON	CFM	688	729	745	753	763
	CFM/Ton)	011		011	ON	Watts	81	124	161	199	238
2	Normal (400	OFF		OFF	OFF	CFM	785	831	859	872	881
-	CFM/ton)	011		011	UII	Watts	109	157	207	253	294
	High (450	OFF	ON		OFF	CFM	887	939	964	977	954
	CFM/ton)	011			UII	Watts	146	206	260	309	343
	Low (350	ON	OFF	OFF	ON	CFM	848	907	934	946	946
	CFM/Ton)	ON	OFF			Watts	133	188	245	289	334
2.5	Normal (400	ON	OFF	OFF	OFF	CFM	1018	1044	1055	1065	983
2.5	CFM/ton)	ON	01	011	UII	Watts	206	262	319	370	357
	High (450	ON	OFF	ON	OFF	CFM	1139	1160	1184	1122	1020
	CFM/ton)	ON	OFF	ON	UFF	Watts	274	344	411	417	386
	Low (350	OFF	OFF	OFF	ON	CFM	1071	1089	1105	1108	1003
	CFM/Ton)	OFF	UFF	OFF		Watts	231	290	346	399	368
3.0**	Normal (400	OFF	OFF	OFF	OFF	CFM	1208	1246	1249	1153	1060
5.0	CFM/ton)		UFF	OFF	ULL	Watts	323	411	469	441	410
	High (450	OFF	OFF	ON	OFF	CFM	1387	1383	1295	1221	1124
	CFM/ton)	UFF	UFF	UN	UFF	Watts	482	546	517	499	467

Notes:

1. \* First letter may be "A" or "T".

\*\* Factory setting.
Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.

4. For variable speed low speed airflows are approximately 30% of listed values.

5. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.



	*UD2D	120AFV52A	Furnace Heating Airflow (CFM) and Power (watts) vs. External Static Pressure With Filter								
		Airflow	Dip Swite	h Setting		External Static Pressure					
		Setting	SW7	SW8		0.1	0.3	0.5	0.7	0.9	
	Heating 1st Stage	Low	ON	ON	CFM	1003	1039	1062	1033	1034	
					Temp. Rise	58	56	54	56	56	
					Watts	125	182	246	309	356	
		Medium**	ON	OFF	CFM	1137	1193	1185	1197	1185	
					Temp. Rise	51	48	49	48	49	
5					Watts	170	239	293	370	446	
eating		High	OFF	OFF	CFM	1262	1290	1327	1344	1331	
at					Temp. Rise	46	45	44	43	43	
He					Watts	218	286	366	440	534	
	Heating 2nd Stage	Low	ON	ON	CFM	1415	1454	1476	1500	1421	
					Temp. Rise		61	60	59	63	
					Watts	297	378	453	534	561	
		Medium**	ON	OFF	CFM	1645	1672	1701	1659	1456	
					Temp. Rise		53	52	54	61	
					Watts	435	539	632	671	580	
		High	OFF	OFF	CFM	1834	1857	1837	1686	1506	
					Temp. Rise		48	48	53	59	
					Watts	608	705	778	699	630	

		*UD2D120	AFV52A F	urnace Coo	ling Airflow (	CFM) and P	ower (Watts	s) vs. Extern	al Static Pr	essure With	Filter	
	Unit	Unit Airflow Dip Switch Setting						External Static Pressure				
	Outdoor	Setting	SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
	3.5	Low (350	OFF	ON	OFF	ON	CFM	1141	1197	1205	1196	1188
		CFM/Ton)					Watts	170	246	299	369	443
		Normal (400	OFF	ON	OFF	OFF	CFM	1325	1374	1403	1434	1412
		CFM/ton)					Watts	252	332	408	496	567
		High (450	OFF	ON	ON	OFF	CFM	1536	1575	1615	1619	1474
		CFM/ton)	011				Watts	370	464	563	640	605
	4	Low (350	ON	OFF	OFF	ON	CFM	1334	1376	1424	1411	1417
		CFM/Ton)					Watts	251	330	415	469	562
		Normal (400	ON	OFF	OFF	OFF	CFM	1582	1628	1659	1663	1465
g		CFM/ton)					Watts	387	491	595	672	595
Ē		High (450	ON	OFF	ON	OFF	CFM	1813	1836	1838	1707	1504
Cooling		CFM/ton)					Watts	577	684	771	710	620
C	5**	Low (350	OFF	OFF	OFF	ON	CFM	1704	1731	1733	1735	1552
		CFM/Ton)					Watts	489	589	666	750	663
		Normal (400	OFF	OFF	OFF	OFF	CFM	1960	1971	1937	1799	1602
		CFM/ton)					Watts	739	841	891	813	700
		High (450	OFF	OFF	ON	OFF	CFM	2208	2107	1970	1849	1683
		CFM/ton)					Watts	1080	1025	942	863	776

Notes:

1. \* First letter may be "A" or "T".

2. \*\* Factory setting.

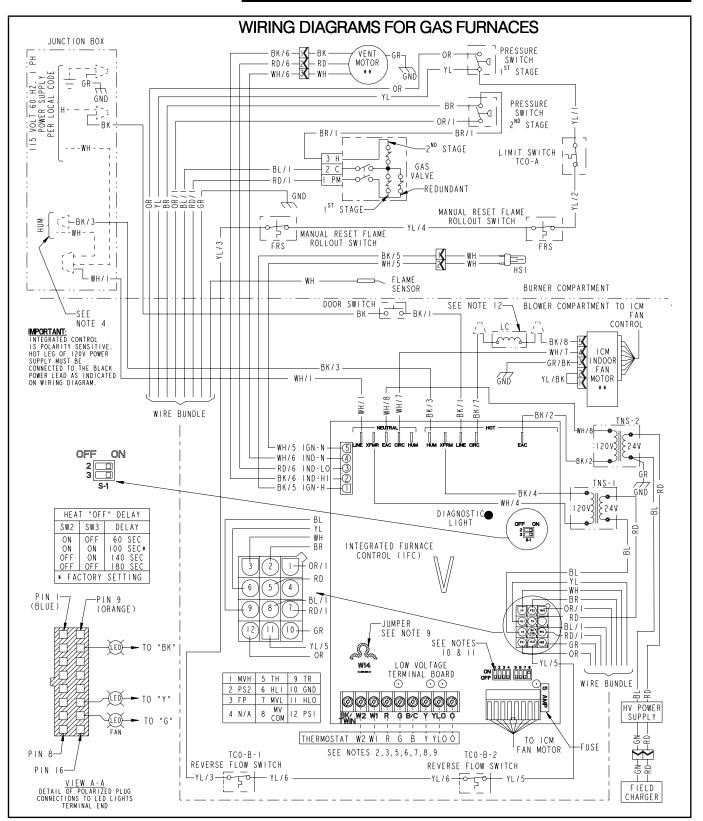
3. Continuous Fan Setting: Heating or cooling airflow is approximately 50% of selected cooling value.

4. For variable speed low speed airflows are approximately 30% of listed values.

5. LOW 350 cfm/ton is recommended for variable speed application for COMFORT & HUMID CLIMATE setting; NORMAL is 400 cfm/ton; HIGH 450 cfm/ton is for DRY CLIMATE setting.

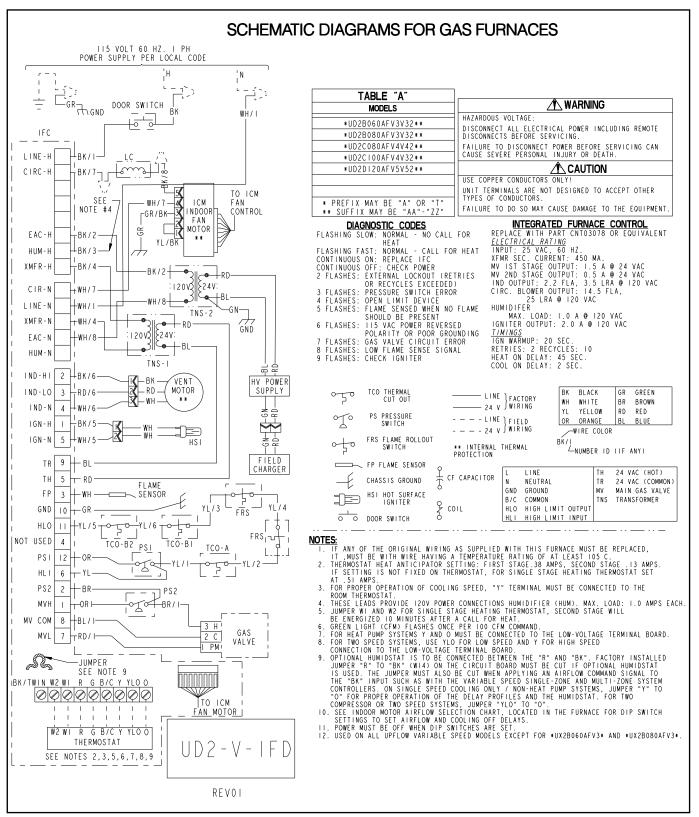


# Electrical Data

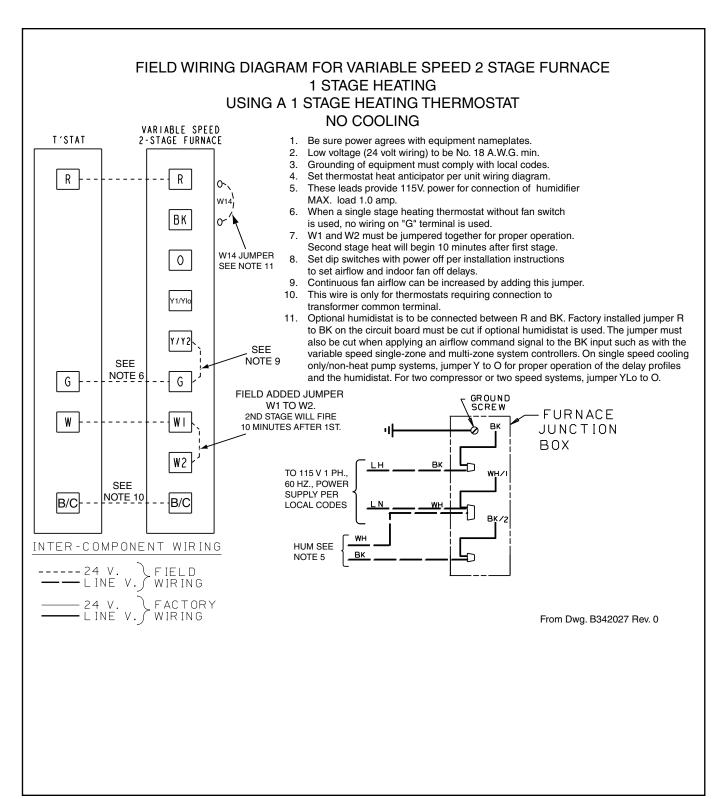




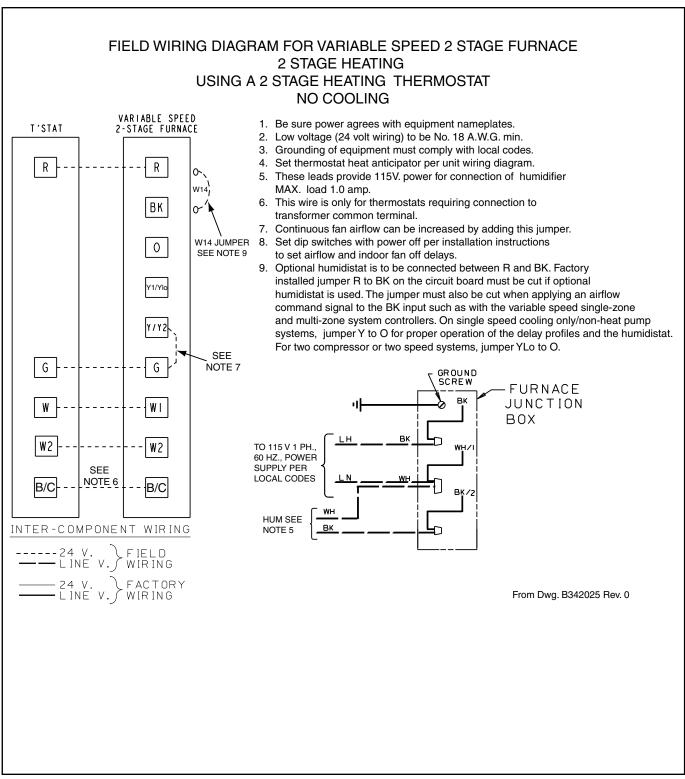
Electrical Data



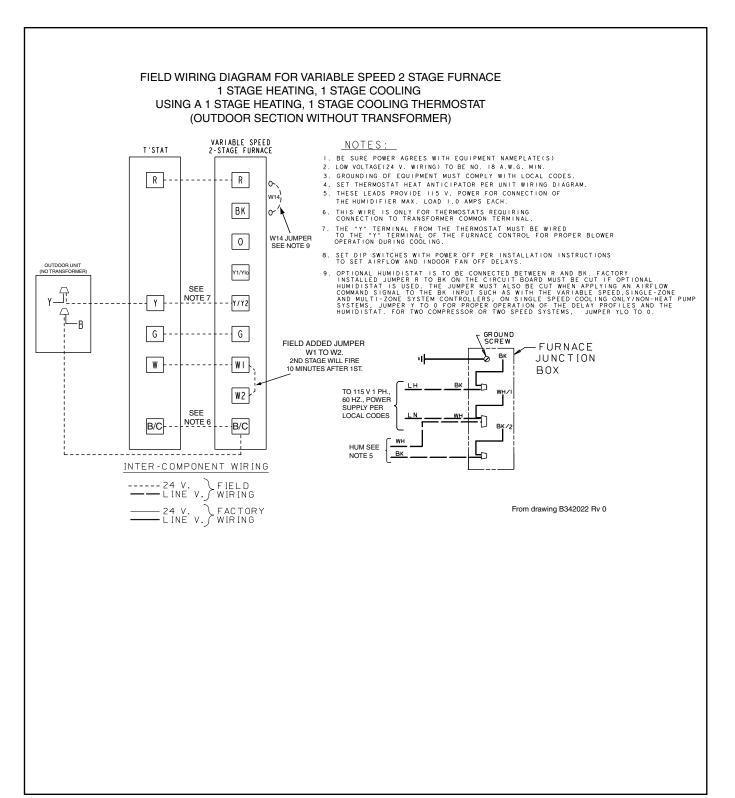




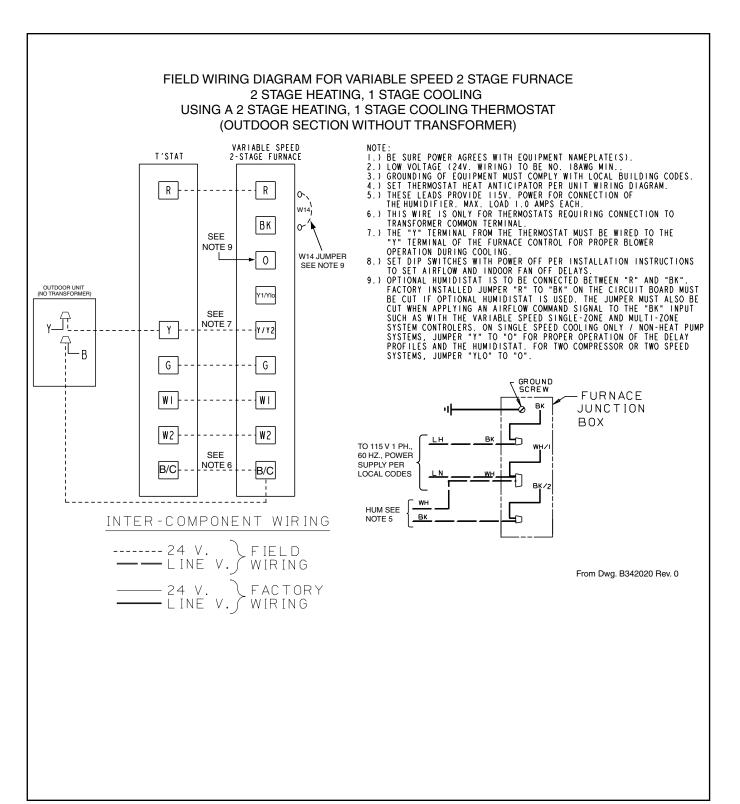




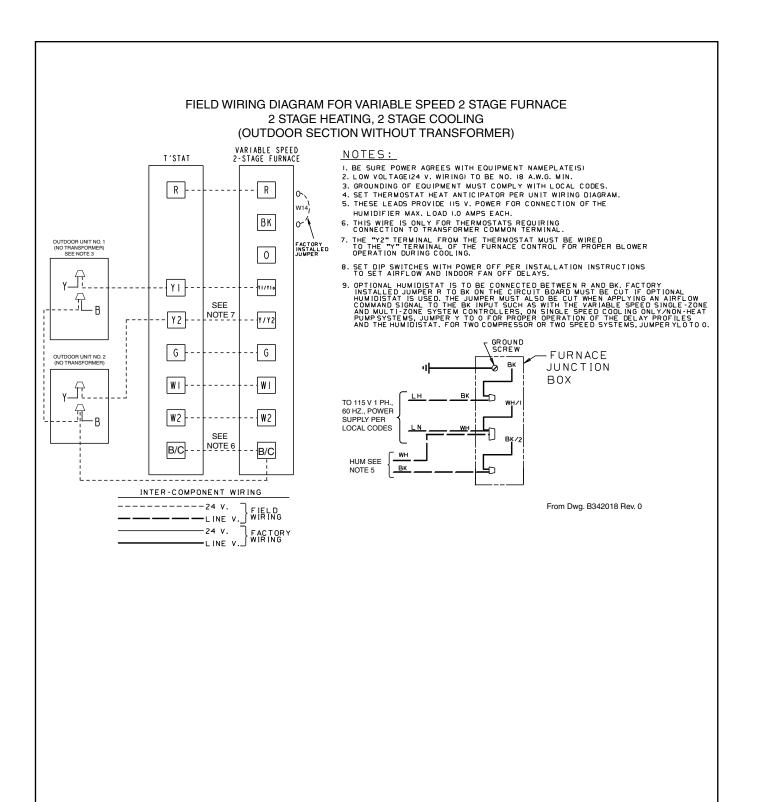




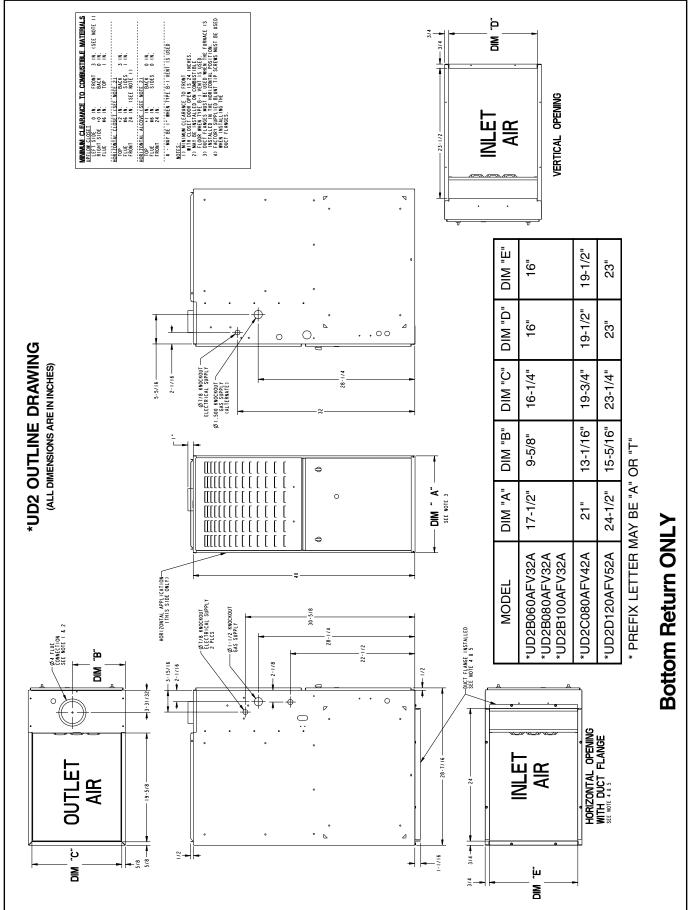








### Dimensions







**Trane** 6200 Troup Highway Tyler, TX 75707 www.trane.com

Since Trane has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.