

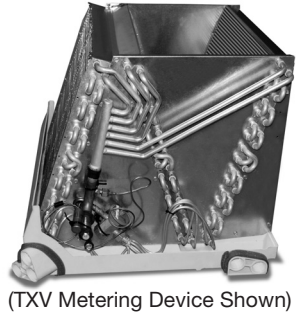


MODEL: TCF

Cased/Uncased Coils

For Gas And Oil Furnaces

FORM NO. CSC-224 REV. 1



(TXV Metering Device Shown)

Sure Comfort® TCF

Cased/Uncased Coils

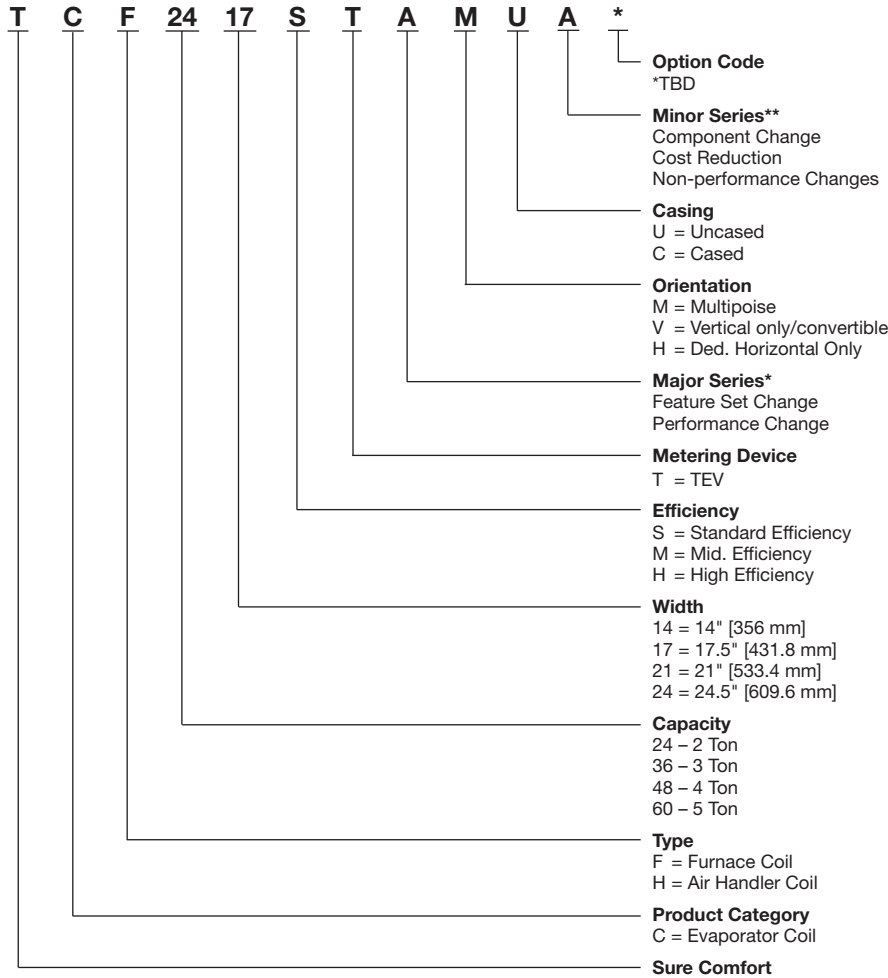
For Gas And Oil Furnaces

- Featuring Industry Standard R-410A Refrigerant
- Airflow Capacity
600-1,900 CFM [283-897 L/s]



- Sure Comfort® Indoor Furnace cased coils and replacement uncased coils are designed for use with Rheem outdoor units and are available for vertical upflow or downflow, and horizontal left or horizontal right airflow. When matched with Rheem outdoor units, the coils provide a nominal capacity range from 18,000 BTU/HR [5.24 kW] to 60,000 BTU/HR [17.6 kW].
- Constructed of aluminum fins bonded to internally grooved aluminum tubing.
- Coils are tested at the factory with an extensive refrigerant leak check.
- Coils have copper sweat refrigerant connections.
- Feature two sets of 3/4" [14.1 mm] N.P.T. Condensate drain connections for ease of connection.
- Chatleff metering device connections, at inlet and outlet of TXV or EEV and equalizer connections (TXV only).
- Approved for system application with variety of Sure Comfort outdoor units.
- Condensate drain pan is constructed of high grade, heat resistant, corrosion free thermal-set material.
- Compatible with Germicidal Light System (UV resistant)
- Bi-Directional airflow eliminates the need to switch any internal components from horizontal left to right.
- Unique drain pan design maximizes application flexibility and condensate removal.
- N-Coil design maximizes performance and minimizes height required at installation.
- Coils are AHRI certified for system application with a variety of Sure Comfort outdoor units.

Model Number Identification



TXV MODELS AVAILABLE	
TCF2414STAMCA	TCF4821MTAMCA
TCF2417STAMCA	TCF4824STAMCA
TCF2417MTAMCA	TCF6021STAMCA
TCF2421MTAMCA	TCF6024STAMCA
TCF3617STAMCA	TCF2417HTAMCA
TCF3621STAMCA	TCF2421HTAMCA
TCF3621MTAMCA	TCF3624HTAMCA
TCF3621HTAMCA	TCF4824HTAMCA
TCF3624MTAMCA	TCF6024HTAMCA
TCF4821STAMCA	

[*] Designates Metric Conversions

Table 1: Coil Specifications/Airflow Pressure Drop

Coil Model TCF	Approx. Design Cooling Air Flow Range CFM [L/s]	Face Area Sq. Ft. [m ²]	Fins Per Inch / Rows Deep	Width	Nominal Capacity	Wet Coil Static Pressure Drop (Inches W.C.) [kPa] @ CFM [L/s] – (Coil Only)														
						600 [283]	700 [330]	800 [378]	900 [425]	1000 [472]	1100 [519]	1200 [566]	1300 [614]	1400 [661]	1500 [708]	1600 [755]	1700 [802]	1800 [850]	1900 [897]	
TCF2414STAM	600/900 [283/425]	4.56 [0.42]	16/2	14	1.5 – 2	0.165	0.209	0.262	0.325	—	—	—	—	—	—	—	—	—	—	
TCF2417STAM	600/900 [283/425]	4.56 [0.42]	16/2	17		0.120	0.157	0.199	0.246	—	—	—	—	—	—	—	—	—	—	—
TCF2417MTAM	600/900 [283/425]	5.70 [0.52]	16/2			0.113	0.145	0.181	0.222	—	—	—	—	—	—	—	—	—	—	—
TCF3617STAM	700/1300 [330/614]	5.70 [0.52]	16/2	17	2.5 – 3	0.113	0.145	0.181	0.222	0.266	0.315	0.368	—	—	—	—	—	—	—	
TCF2421MTAM	600/900 [283/425]	5.70 [0.52]	16/2	21	1.5 – 2	0.113	0.145	0.181	0.222	—	—	—	—	—	—	—	—	—	—	
TCF2421HTAM	600/900 [283/425]	5.70 [0.52]	16/2			0.113	0.145	0.181	0.222	—	—	—	—	—	—	—	—	—	—	—
TCF3621STAM	700/1300 [330/614]	5.70 [0.52]	16/2		2.5 – 3	0.113	0.145	0.181	0.222	0.266	0.315	0.368	—	—	—	—	—	—	—	—
TCF3621MTAM	700/1300 [330/614]	8.55 [0.79]	16/2			0.062	0.086	0.112	0.140	0.170	0.202	0.236	—	—	—	—	—	—	—	—
TCF3621HTAM	700/1300 [330/614]	7.60 [0.70]	13/3			0.106	0.125	0.146	0.169	0.194	0.221	0.251	—	—	—	—	—	—	—	—
TCF4821MTAM	1100/1800 [519/850]	7.60 [0.70]	13/3		3.5 – 4	0.106	0.125	0.146	0.169	0.194	0.221	0.251	0.282	0.315	0.350	0.386	0.425	0.466	—	—
TCF4821STAM	1100/1800 [519/850]	8.55 [0.79]	16/2			0.062	0.086	0.112	0.140	0.170	0.202	0.236	0.272	0.309	0.349	0.391	0.434	0.480	0.527	—
TCF6021STAM	1400/1600 [661/755]	7.60 [0.70]	13/3		5	0.036	0.050	0.065	0.081	0.098	0.117	0.137	0.158	0.180	0.203	0.228	0.254	—	—	—
TCF3624MTAM	700/1300 [330/614]	8.55 [0.79]	16/2		24	2.5 – 3	0.062	0.086	0.112	0.140	0.170	0.202	0.236	0.272	0.309	—	—	—	—	—
TCF3624HTAM	700/1300 [330/614]	9.98 [0.93]	14/3				0.036	0.050	0.065	0.081	0.098	0.117	0.137	0.158	0.180	—	—	—	—	—
TCF4824STAM	1100/1800 [519/850]	8.55 [0.79]	16/2	3.5 – 4		0.062	0.086	0.112	0.140	0.170	0.202	0.236	0.272	0.309	0.349	0.391	0.434	0.480	—	
TCF4824HTAM	1100/1800 [519/850]	9.98 [0.93]	14/3			0.036	0.050	0.065	0.081	0.098	0.117	0.137	0.158	0.180	0.203	0.228	0.254	0.281	—	
TCF6024STAM	1400/1800 [661/755]	9.98 [0.93]	14/3	5		0.036	0.050	0.065	0.081	0.098	0.117	0.137	0.158	0.180	0.203	0.228	0.254	0.281	—	
TCF6024HTAM	1400/1800 [661/755]	9.98 [0.93]	14/3			0.036	0.050	0.065	0.081	0.098	0.117	0.137	0.158	0.180	0.203	0.228	0.254	0.281	—	

Important Note: Gas furnace heating CFM can exceed the design cooling CFM. Ductwork and coil selection must accommodate the higher of the cooling or gas heating CFM to prevent furnace limit tripping, excessive noise, and coil freeze-up.

[] Designates Metric Conversions

Table 1: Coil Specifications/Airflow Pressure Drop (con't.)

Coil Model TCF	Approx. Design Heating Air Flow Range CFM [L/s]	Face Area Sq. Ft. [m ²]	Fins Per Inch / Rows Deep	Width	Nominal Capacity	Dry Coil Static Pressure Drop (Inches W.C.) [kPa] @ CFM [L/s] – (Coil-Only)														
						600 [283]	700 [330]	800 [378]	900 [425]	1000 [472]	1100 [519]	1200 [566]	1300 [614]	1400 [661]	1500 [708]	1600 [755]	1700 [802]	1800 [850]	1900 [897]	
TCF2414STAM	600/1600 [283/755]	4.56 [0.42]	16/2	14	1.5 – 2	0.118	0.118	0.145	0.176	0.210	0.247	0.288	0.332	0.379	0.429	0.483	—	—	—	
TCF2417STAM	600/1500 [283/707]	4.56 [0.42]	16/2	17		0.116	0.116	0.151	0.190	0.235	0.284	0.338	0.397	0.461	0.530	—	—	—	—	
TCF2417MTAM	600/1600 [283/755]	5.70 [0.52]	16/2		2.5 – 3	0.101	0.101	0.129	0.161	0.196	0.235	0.277	0.323	0.373	0.425	0.482	—	—	—	
TCF3617STAM	600/1600 [283/755]	5.70 [0.52]	16/2	21		1.5 – 2	0.101	0.101	0.129	0.161	0.196	0.235	0.277	0.323	0.373	0.425	0.482	—	—	—
TCF2421MTAM	600/1600 [283/755]	5.70 [0.52]	16/2		0.101		0.101	0.129	0.161	0.196	0.235	0.277	0.323	0.373	0.425	0.482	—	—	—	
TCF2422HTAM	600/1600 [283/755]	5.70 [0.52]	16/2		2.5 – 3	0.101	0.101	0.129	0.161	0.196	0.235	0.277	0.323	0.373	0.425	0.482	—	—	—	
TCF3621STAM	600/1600 [283/755]	5.70 [0.52]	16/2			0.039	0.039	0.056	0.075	0.095	0.117	0.141	0.166	0.193	0.222	0.252	0.284	0.318	0.353	
TCF3621MTAM	600/1900 [283/896]	8.55 [0.79]	16/2		3.5 – 4	0.043	0.043	0.053	0.066	0.080	0.096	0.115	0.135	0.158	0.182	0.208	0.237	0.267	0.299	
TCF3621HTAM	600/1900 [283/896]	7.60 [0.70]	13/3			0.043	0.043	0.053	0.066	0.080	0.096	0.115	0.135	0.158	0.182	0.208	0.237	0.267	0.299	
TCF4821MTAM	600/1900 [283/896]	7.60 [0.70]	13/3		5	0.039	0.039	0.056	0.075	0.095	0.117	0.141	0.166	0.193	0.222	0.252	0.284	0.318	0.353	
TCF4821STAM	600/1900 [283/896]	8.55 [0.79]	16/2			0.080	0.080	0.092	0.106	0.121	0.136	0.153	0.171	0.190	0.211	0.232	0.254	0.278	0.302	
TCF6021STAM	600/1900 [283/896]	7.60 [0.70]	13/3		24	2.5 – 3	0.039	0.039	0.056	0.075	0.095	0.117	0.141	0.166	0.193	0.222	0.252	0.284	0.318	0.353
TCF3624MTAM	600/1900 [283/896]	8.55 [0.79]	16/2				0.023	0.023	0.038	0.055	0.074	0.095	0.119	0.144	0.171	0.200	0.231	0.264	0.300	0.337
TCF3624HTAM	600/1900 [283/896]	9.98 [0.93]	14/3			3.5 – 4	0.039	0.039	0.056	0.075	0.095	0.117	0.141	0.166	0.193	0.222	0.252	0.284	0.318	0.353
TCF4824STAM	600/1900 [283/896]	8.55 [0.79]	16/2				0.023	0.023	0.038	0.055	0.074	0.095	0.119	0.144	0.171	0.200	0.231	0.264	0.300	0.337
TCF4824HTAM	600/1900 [283/896]	9.98 [0.93]	14/3	5		0.023	0.023	0.038	0.055	0.074	0.095	0.119	0.144	0.171	0.200	0.231	0.264	0.300	0.337	
TCF6024STAM	600/1900 [283/896]	9.98 [0.93]	14/3			0.023	0.023	0.038	0.055	0.074	0.095	0.119	0.144	0.171	0.200	0.231	0.264	0.300	0.337	
TCF6024HTAM	600/1900 [283/896]	9.98 [0.93]	14/3																	

Important Note: Gas furnace heating CFM can exceed the design cooling CFM. Ductwork and coil selection must accommodate the higher of the cooling or gas heating CFM to prevent furnace limit tripping, excessive noise, and coil freeze-up.

[] Designates Metric Conversions

Table 2: Coil Dimensions and Weights

Coil Model TCF	Connections		Cased Coil Dimensions (in) [mm]			Weight	
	Sweat (in.) [mm]		A	B	C	Coil Weight (lbs.) [Kg.]	Shipping Weight (lbs.) [Kg.]
	Liquid	Suction					
	I.D.	I.D.					
2414ST	3/8 [9.53]	3/4 [19.05]	14 [356]	21 [533]	23 ³ / ₁₆ [584]	43 [19]	47 [21]
2417SP/2417ST/2417SE	3/8 [9.53]	3/4 [19.05]	17 ¹ / ₂ [445]	14 ¹ / ₂ [368]	20 [508]	43 [19]	48 [22]
2417MT/2417HT/3617ST/3617SP/3617SE	3/8 [9.53]	3/4 [19.05]	17 ¹ / ₂ [445]	17 ⁷ / ₈ [454]	20 [508]	49 [22]	54 [24]
2421MT/2421HT/3621ST/3621SP/2421ME	3/8 [9.53]	3/4 [19.05]	21 [533]	17 ¹ / ₂ [445]	20 [508]	51 [23]	60 [27]
3621MT/4821ST/4821SP/3621ME	3/8 [9.53]	3/4 [19.05]	21 [533]	25 ⁷ / ₈ [657]	28 [711]	71 [32]	78 [35]
3621HT/4821MT/6021ST/6021SE	3/8 [9.53]	7/8 [22.23]	21 [533]	32 [813]	34 ¹ / ₂ [876]	76 [34]	86 [39]
3624MT/4824ST/4824ST	3/8 [9.53]	3/4 [19.05]	24 ¹ / ₂ [622]	25 ³ / ₈ [645]	32 [812]	83 [37]	93 [42]
3624HT/4824HT/6024ST/6024HT/6024ME	3/8 [9.53]	3/4 [19.05]	24 ¹ / ₂ [622]	30 ¹ / ₄ [768]	32 [812]	100 [45]	108 [48]

*The 14 inch, 2 ton TCF coil (2414) is part of the "N-Coil" design series, even though the coil shape resembles an "A" coil design.

FIGURE 1: DIMENSIONS CASED

