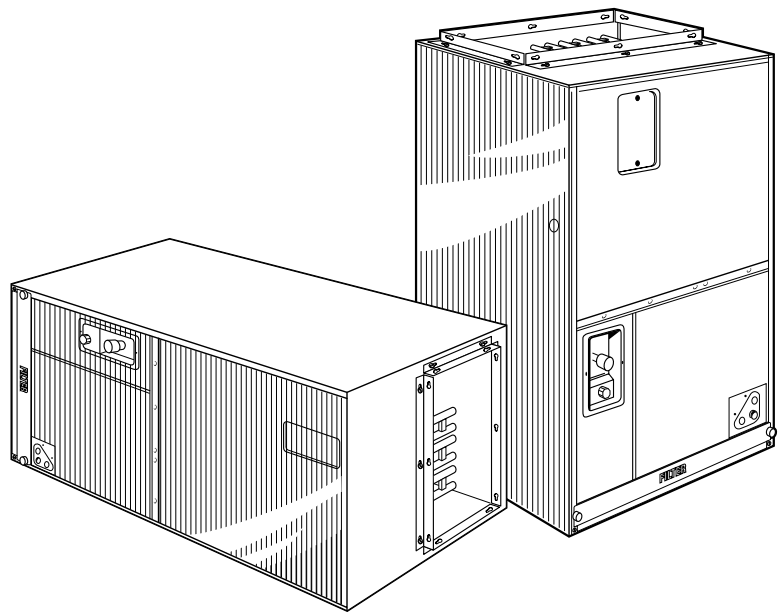




Cooling/Heat Pump Convertible Air Handlers

2/4TEC3F18-60A1000A

1½ – 5 Ton



PUB. NO. 22-1774-01-0905 (EN)

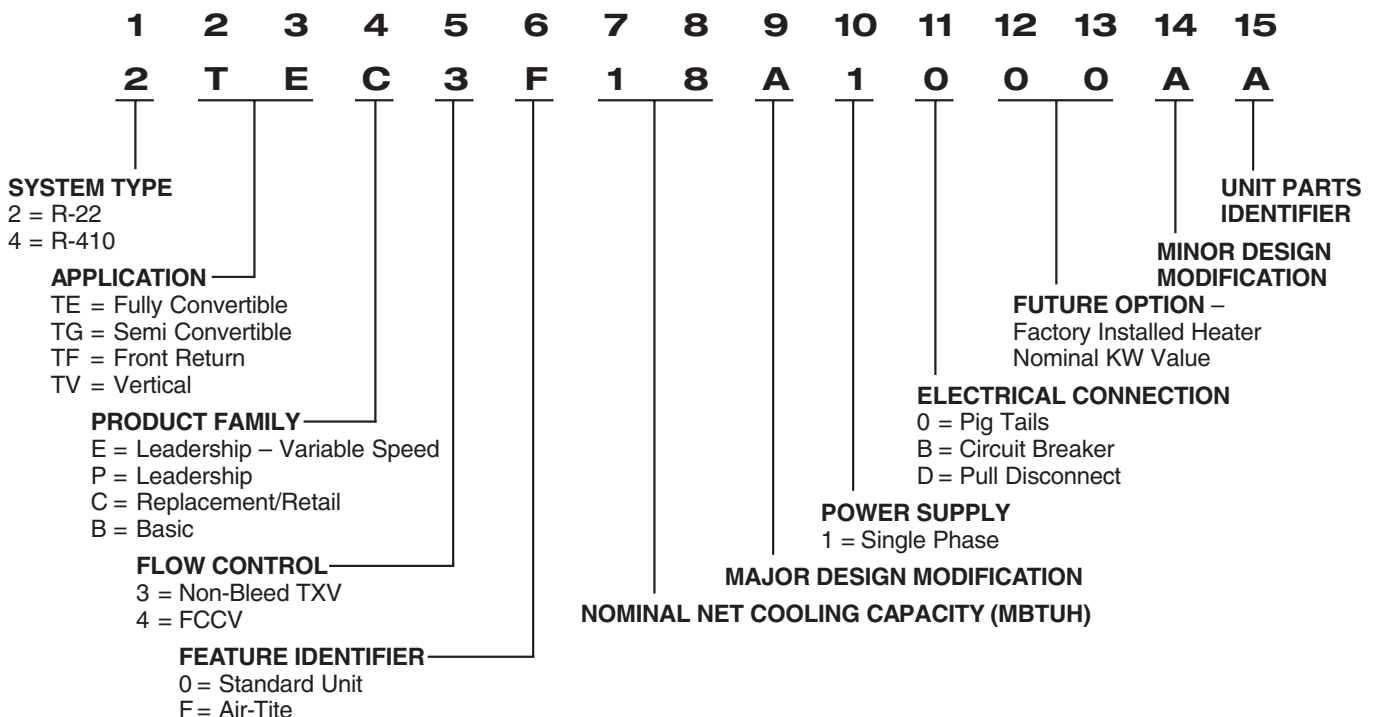


Features and Benefits

- 13.0 SEER
- Ships horizontal – converts to vertical by standing unit on end.
- Six-way convertibility – horizontal (left and right), front and rear access; upflow, downflow
- “1-man” installation opportunity
- Electrical, refrigerant, condensate and blower access convertible to either side
- Compact 21" depth for easy installation
- Corrosion resistant galvanized metal with attractive finish
- Superior condensate performance
- Factory installed non-bleed TXV
- Enhanced internally finned coil tubes
- Direct drive motor
- Multi-speed blower
- Versatile duct flange – allows flush fit 3/4", 1" or 1.5" duct insulation
- Filter panel stamped with word “filter”
- 200/230 volt primary and 24 volt secondary transformer
- Low voltage wire nut connections
- Insulated cabinet
- Uses 1400 series heaters
- External access to heater circuit breakers
- Polarized plugs for making electrical connections from air handler control box to heaters
- Approved for modular or manufactured homes

Selection Procedure

Model Number Nomenclature



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General Data

MODEL	2/4TEC3F18A1000A		2/4TEC3F24A1000A		2/4TEC3F30A1000A	
RATED VOLTS/PH/HZ.	208-230/1/60		208-230/1/60		200-230/1/60	
RATINGS ①	See O.D. Specifications		See O.D. Specifications		See O.D. Specifications	
INDOOR COIL – Type	Plate Fin		Plate Fin		Plate Fin	
Rows – F.P.I.	3 - 14		3 - 14		3 - 14	
Face Area (sq. ft.)	3.21		3.21		3.67	
Tube Size (in.)	3/8 - Copper		3/8 - Copper		3/8 - Copper	
Refrigerant Control	TXV-NB		TXV-NB		TXV-NB	
Drain Conn. Size (in.) ②	3/4 NPT		3/4 NPT		3/4 NPT	
INDOOR FAN – Type	Centrifugal		Centrifugal		Centrifugal	
Diameter – Width (in.)	9 x 8		9 x 8		9 x 8	
No. Used	1		1		1	
Drive – No. Speeds	Direct - 3		Direct - 3		Direct - 3	
CFM vs. in w.g.	See Fan Performance Table		See Fan Performance Table		See Fan Performance Table	
No. Motors – H.P.	1 - 1/4		1 - 1/4		1 - 1/3	
Motor Speed R.P.M.	1075		1075		1075	
Volts/Ph/Hz	200-230/1/60		200-230/1/60		200-230/1/60	
F.L. Amps – L.R. Amps	1.5 - 3.1		1.7 - 3.6		2.1 - 4.6	
FILTER						
Vertical Applications						
Filter Furnished?	Yes		Yes		Yes	
Type Recommended	Throwaway		Throwaway		Throwaway	
No.-Size-Thickness	1 - 20 x 20 x 1 in.		1 - 20 x 20 x 1 in.		1 - 20 x 20 x 1 in.	
Horizontal Applications						
Filter Furnished?	No		No		No	
Recommended Size ③	See Note ③		See Note ③		See Note ③	
REFRIGERANT	R-22	R-410A	R-22	R-410A	R-22	R-410A
Ref. Line Connections	Brazed	Brazed	Brazed	Brazed	Brazed	Brazed
Coupling or Conn. Size – in. Gas	5/8	1/2	3/4	5/8	3/4	3/4
Coupling or Conn. Size – in. Liq.	1/4	1/4	5/16	5/16	5/16	5/16
DIMENSIONS	H x W x D		H x W x D		H x W x D	
Crated (in.)	44 1/2 x 24 x 23-1/2		44 1/2 x 24 x 23-1/2		46-1/2 x 24 x 23-1/2	
Uncrated	See Outline Drawing		See Outline Drawing		See Outline Drawing	
WEIGHT						
Shipping (Lbs.) / Net (Lbs.)	121/111		121/111		135/125	

MODEL	2/4TEC3F36A1000A		2/4TEC3F42A1000A	
RATED VOLTS/PH/HZ.	200-230/1/60		200-230/1/60	
RATINGS ①	See O.D. Specifications		See O.D. Specifications	
INDOOR COIL – Type	Plate Fin		Plate Fin	
Rows – F.P.I.	3 - 14.0		3 - 14	
Face Area (sq. ft.)	3.67		5.04	
Tube Size (in.)	3/8 - Copper		3/8 - Copper	
Refrigerant Control	TXV-NB		TXV-NB	
Drain Conn. Size (in.) ②	3/4 NPT		3/4 NPT	
INDOOR FAN – Type	Centrifugal		Centrifugal	
Diameter – Width (in.)	10 x 7		10 x 10	
No. Used	1		1	
Drive – No. Speeds	Direct - 3		Direct - 3	
CFM vs. in w.g.	See Fan Performance Table		See Fan Performance Table	
No. Motors – H.P.	1 - 1/3		1 - 1/2	
Motor Speed R.P.M.	1080		1075	
Volts/Ph/Hz	200-230/1/60		200-230/1/60	
F.L. Amps – L.R. Amps	2.2 - 5.3		3.3 - 7.8	
FILTER				
Vertical Applications				
Filter Furnished?	Yes		Yes	
Type Recommended	Throwaway		Throwaway	
No.-Size-Thickness	1 - 20 x 20 x 1 in.		1 - 20 x 20 x 1 in.	
Horizontal Applications				
Filter Furnished?	No		No	
Recommended Size ③	See Note ③		See Note ③	
REFRIGERANT	R-22	R-410A	R-22	R-410A
Ref. Line Connections	Brazed	Brazed	Brazed	Brazed
Coupling or Conn. Size – in. Gas	7/8	3/4	7/8	3/4
Coupling or Conn. Size – in. Liq.	3/8	3/8	3/8	3/8
DIMENSIONS	H x W x D		H x W x D	
Crated (in.)	46-1/2 x 24 x 23-1/2		53-1/4 x 26 x 23-1/2	
Uncrated	See Outline Drawing		See Outline Drawing	
WEIGHT				
Shipping (Lbs.) / Net (Lbs.)	135/125		165/150	

① These Air Handlers are ARI certified with various Split System Air Conditioners and Heat Pumps (ARI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

② 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)

③ Minimum filter size for horizontal applications will be based on airflow selection and will be calculated as follows:

Low Velocity Filter:
Face area (Sq. Ft.) = CFM / 300

High Velocity Filter:
Face area (Sq. Ft.) = CFM / 500



General Data

MODEL	2/4TEC3F48A1000A	2/4TEC3F60A1000A
RATED VOLTS/PH/HZ.	200-230/1/60	200-230/1/60
RATINGS ①	See O.D. Specifications	See O.D. Specifications
INDOOR COIL – Type	Plate Fin	Plate Fin
Rows – F.P.I.	3 - 14	3 - 14 (3-16, 4TEC)
Face Area (sq. ft.)	6.19	6.19
Tube Size (in.)	3/8 - Copper	3/8 - Copper
Refrigerant Control	TXV-NB	TXV-NB
Drain Conn. Size (in.) ②	3/4 NPT	3/4 NPT
INDOOR FAN – Type	Centrifugal	Centrifugal
Diameter – Width (in.)	11 x 10	11 x 10
No. Used	1	1
Drive – No. Speeds	Direct - 3	Direct - 4
CFM vs. in w.g.	See Fan Performance Table	See Fan Performance Table
No. Motors – H.P.	1 - 1/2	1 - 1
Motor Speed R.P.M.	1000	1050
Volts/Ph/Hz	200-230/1/60	200-230/1/60
F.L. Amps – L.R. Amps	2.7 - 4.5	7.2
FILTER		
Vertical Applications		
Filter Furnished?	Yes	Yes
Type Recommended	Throwaway	Throwaway
No.-Size-Thickness	1 - 20 x 20 x 1 in.	1 - 20 x 22 x 1 in.
Horizontal Applications		
Filter Furnished?	No	No
Recommended Size ③	See Note ③	See Note ③
REFRIGERANT	R-22 R-410A	R-22 R-410A
Ref. Line Connections	Brazed Brazed	Brazed Brazed
Coupling or Conn. Size – in. Gas	1-1/8 7/8	1-1/8 7/8
Coupling or Conn. Size – in. Liq.	3/8 3/8	3/8 3/8
DIMENSIONS		
Crated (in.)	H x W x D 53-1/2 x 26 x 23-1/2	H x W x D 59-1/2 x 26 x 23-1/2
Uncrated	See Outline Drawing	See Outline Drawing
WEIGHT		
Shipping (Lbs.) / Net (Lbs.)	166/151	170/155

① These Air Handlers are ARI certified with various Split System Air Conditioners and Heat Pumps (ARI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

② 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)

③ Minimum filter size for horizontal applications will be based on airflow selection and will be calculated as follows:

Low Velocity Filter: Face area (Sq. Ft.) = CFM / 300

High Velocity Filter: Face area (Sq. Ft.) = CFM / 500





Performance Data

Airflow Performance 2/4TEC3F18A: Wet Coil, No Heaters												
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)											
	VERTICAL						HORIZONTAL					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
0.0	1032	673	473	973	567	372	1003	676	458	958	579	396
0.1	993	662	443	941	563	371	962	661	443	919	564	372
0.2	949	639	413	901	544	340	922	642	418	880	550	341
0.3	901	609	382	856	518	299	876	616	387	834	527	303
0.4	849	574	347	805	485	258	820	578	350	778	489	259
0.5	788	532	303	745	444	219	752	528	304	711	436	214
0.6	711	475	245	670	388	170	670	465	245	632	373	173
0.7	608	391	167	569	307	93	575	388	163	546	311	146
0.8	467	266	-	429	187	-	472	301	-	457	266	-
0.9	-	-	-	-	-	-	-	-	-	-	-	-
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow						As shipped except without filter Subtract 0.05" W.G. for horizontal left					

Airflow Performance 2/4TEC3F24A: Wet Coil, No Heaters												
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)											
	VERTICAL						HORIZONTAL					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
0.0	1134	876	818	1093	781	723	1083	870	813	1050	780	739
0.1	1102	839	789	1073	751	696	1051	831	783	1020	745	697
0.2	1048	798	751	1020	713	661	996	783	739	967	703	657
0.3	984	750	705	953	668	618	930	728	687	903	655	614
0.4	912	694	649	880	614	567	858	667	628	833	600	563
0.5	833	622	581	802	548	504	782	597	561	758	533	499
0.6	738	532	496	714	465	425	693	512	479	669	452	417
0.7	614	416	385	599	358	321	579	406	375	554	349	313
0.8	442	268	240	434	216	184	418	266	236	391	217	182
0.9	197	-	-	187	-	-	184	-	-	156	-	-
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow						As shipped except without filter Subtract 0.05" W.G. for horizontal left					



Performance Data

Airflow Performance 2/4TEC3F30A: Wet Coil, No Heaters												
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)											
	VERTICAL						HORIZONTAL					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
0.0	1252	998	813	1188	911	728	1225	1263	871	1198	917	745
0.1	1169	992	835	1138	893	718	1169	1223	855	1143	893	724
0.2	1099	954	822	1079	855	700	1108	1174	823	1086	861	705
0.3	1031	896	786	1012	807	673	1041	1121	783	1022	819	679
0.4	956	829	735	938	756	635	966	1066	736	950	767	641
0.5	869	755	670	857	698	586	879	1012	680	865	705	587
0.6	769	672	590	765	628	522	780	954	610	766	629	517
0.7	659	569	486	660	532	440	666	888	515	650	536	433
0.8	542	432	342	536	390	338	533	805	382	517	421	341
0.9	429	239	141	387	177	210	380	694	193	366	279	247
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow						As shipped except without filter Subtract 0.05" W.G. for horizontal left					

Airflow Performance 2/4TEC3F36A: Wet coil, No Heaters												
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)											
	VERTICAL						HORIZONTAL					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
0.0	1484	1282	1077	1402	1200	963	1402	1265	1069	1349	1165	947
0.1	1412	1268	1082	1352	1166	948	1350	1228	1048	1298	1131	915
0.2	1344	1226	1055	1292	1130	924	1289	1180	1015	1243	1090	890
0.3	1277	1171	1013	1227	1089	893	1225	1127	976	1185	1047	866
0.4	1209	1110	965	1163	1040	856	1163	1073	933	1127	1001	836
0.5	1139	1049	915	1098	982	814	1104	1019	887	1066	953	795
0.6	1065	987	862	1031	915	764	1043	962	835	1001	898	743
0.7	988	916	799	957	839	703	977	897	771	929	829	677
0.8	907	827	713	870	757	624	894	815	689	846	736	599
0.9	823	702	584	760	671	521	783	707	579	745	609	513
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow						As shipped except without filter Subtract 0.05" W.G. for horizontal left					



Performance Data

Airflow Performance 2/4TEC3F42A: Wet Coil, No Heaters												
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)											
	VERTICAL						HORIZONTAL					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
0.0	1869	1690	1435	1723	1435	1100	1793	1533	1309	1721	1400	1100
0.1	1715	1542	1316	1640	1367	1079	1721	1522	1277	1665	1389	1095
0.2	1609	1449	1237	1561	1317	1060	1651	1471	1237	1600	1350	1068
0.3	1529	1380	1177	1485	1274	1032	1578	1400	1190	1527	1294	1030
0.4	1458	1314	1123	1409	1227	991	1500	1322	1139	1449	1231	987
0.5	1385	1240	1064	1332	1170	939	1417	1245	1085	1367	1164	940
0.6	1303	1158	1000	1251	1099	884	1329	1170	1026	1284	1094	889
0.7	1210	1078	932	1165	1015	838	1237	1092	963	1200	1019	826
0.8	1109	1018	870	1071	921	820	1145	1000	895	1117	931	740
0.9	1009	1010	829	968	825	854	1057	878	819	1034	820	617
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow						As shipped except without filter Subtract 0.05" W.G. for horizontal left					

Airflow Performance 2/4TEC3F48A: Wet Coil, No Heaters												
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)											
	VERTICAL						HORIZONTAL					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
0.0	1945	1768	1617	1810	1618	1478	1959	1745	1582	1768	1562	1440
0.1	1880	1712	1583	1762	1574	1428	1910	1722	1612	1750	1606	1430
0.2	1824	1659	1532	1710	1526	1382	1860	1683	1582	1714	1577	1390
0.3	1770	1606	1474	1654	1476	1333	1810	1636	1524	1664	1511	1336
0.4	1712	1551	1415	1595	1421	1278	1758	1584	1457	1606	1436	1275
0.5	1647	1490	1358	1532	1360	1212	1700	1529	1394	1542	1365	1213
0.6	1571	1419	1296	1462	1290	1134	1636	1470	1336	1471	1300	1146
0.7	1485	1337	1219	1383	1206	1044	1561	1402	1274	1392	1228	1068
0.8	1391	1238	1113	1291	1101	945	1471	1319	1190	1300	1127	966
0.9	1293	1120	955	1180	970	840	1363	1212	1056	1190	959	821
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow						As shipped except without filter Subtract 0.05" W.G. for horizontal left					



Performance Data

Airflow Performance 2/4TEC3F60A: Wet Coil, No Heaters																
EXTERNAL STATIC PRESSURE (in.w.g.)	AIRFLOW (CFM)															
	VERTICAL								HORIZONTAL							
	230 VOLTS				208 VOLTS				230 VOLTS				208 VOLTS			
	HI	MED-H	M-LO	LOW	HI	MED-H	M-LO	LOW	HI	MED-H	M-LO	LOW	HI	MED-H	M-LO	LOW
0.0	2163	2018	1901	1831	2129	1988	1893	1820	2107	1963	1840	1774	2085	1956	1837	1777
0.1	2132	1974	1852	1796	2091	1954	1833	1769	2063	1927	1810	1743	2049	1912	1797	1729
0.2	2088	1936	1811	1754	2049	1915	1790	1722	2028	1889	1773	1706	2011	1870	1756	1683
0.3	2044	1901	1775	1709	2008	1874	1756	1678	1995	1851	1735	1663	1973	1830	1716	1638
0.4	2004	1867	1741	1663	1970	1835	1723	1634	1962	1814	1698	1617	1934	1793	1678	1593
0.5	1972	1832	1707	1617	1935	1797	1687	1590	1925	1778	1662	1569	1896	1757	1641	1548
0.6	1941	1797	1672	1572	1899	1761	1646	1542	1883	1743	1628	1520	1855	1721	1606	1501
0.7	1902	1760	1635	1526	1858	1725	1602	1489	1834	1710	1595	1473	1812	1685	1570	1450
0.8	1841	1721	1594	1475	1803	1684	1556	1427	1779	1678	1559	1429	1761	1648	1531	1392
0.9	1735	1683	1549	1416	1722	1636	1516	1354	1719	1648	1518	1389	1699	1606	1484	1326
NOTES:	With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow								As shipped except without filter Subtract 0.05" W.G. for horizontal left							

PRESSURE DROP FOR ELECTRIC HEATERS IN AIR HANDLER MODELS

AIRFLOW CFM	NUMBER OF RACKS				
	1	2	3	4	5
	AIR PRESSURE DROP INCHES W.G.				
600	0.01	0.02	0.02		
700	0.01	0.02	0.02		
800	0.02	0.03	0.03	0.04	
900	0.03	0.03	0.04	0.05	
1000	0.04	0.04	0.05	0.06	
1100	0.04	0.05	0.06	0.07	0.08
1200	0.05	0.06	0.07	0.08	0.09
1300	0.06	0.07	0.08	0.09	0.11
1400	0.07	0.08	0.10	0.11	0.13
1500	0.08	0.09	0.11	0.13	0.15
1600	0.09	0.10	0.12	0.15	0.17
1700	0.10	0.11	0.14	0.17	0.19
1800	0.11	0.13	0.16	0.19	0.21
1900	0.13	0.15	0.18	0.21	0.23
2000	0.14	0.17	0.20	0.23	0.26

HEATER RACKS	
HEATER MODEL NO.	NO. OF RACKS
BAYHTR1405	1
BAYHTR1408	2
BAYHTR1410	2
BAYHTR3410	2
BAYHTR1415	3
BAYHTR3415	3
BAYHTR1419	4
BAYHTR1425	5

NOTES:

1. See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters
2. Heater model numbers may have additional suffix digits.



Performance Data

Air Handler/Fan Speed Heater Matrix

Air Handler Model	Unit Position	Application	HEATER MODEL NUMBER BAYHTR					
			1405 4.80KW	1408 7.68KW	*410 9.60KW	*415 15.36KW	1419 19.20KW	1425 24.96KW
2/4TEC3F18A	Vertical	A/C or Elec. Furnace	L	L	L	—	—	—
	Upflow	Heat Pump	L	M	M	—	—	—
	Vertical	A/C or Elec. Furnace	L	L	L	—	—	—
	Downflow	Heat Pump	L	M	M	—	—	—
	Horizontal	A/C or Elec. Furnace	L	L	L	—	—	—
	Left	Heat Pump	L	M	M	—	—	—
	Horizontal	A/C or Elec. Furnace	L	L	L	—	—	—
Right	Heat Pump	L	M	M	—	—	—	
2/4TEC3F24A	Vertical	A/C or Elec. Furnace	L	L	L	L	—	—
	Upflow	Heat Pump	L	L	L	M	—	—
	Vertical	A/C or Elec. Furnace	L	L	L	L	—	—
	Downflow	Heat Pump	L	L	L	M	—	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	—	—
	Left	Heat Pump	L	L	L	M	—	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	—	—
Right	Heat Pump	L	L	L	M	—	—	
2/4TEC3F30A	Vertical	A/C or Elec. Furnace	L	L	L	L	—	—
	Upflow	Heat Pump	L	L	L	M	—	—
	Vertical	A/C or Elec. Furnace	L	L	L	L	—	—
	Downflow	Heat Pump	L	L	L	M	—	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	—	—
	Left	Heat Pump	L	L	L	M	—	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	—	—
Right	Heat Pump	L	L	L	M	—	—	
2/4TEC3F36A	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Upflow	Heat Pump	L	L	L	H	H	—
	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Downflow	Heat Pump	L	L	L	H	H	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
	Left	Heat Pump	L	L	L	H	H	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
Right	Heat Pump	L	L	L	H	H	—	
2/4TEC3F42A	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Upflow	Heat Pump	L	L	L	M	H	—
	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Downflow	Heat Pump	L	L	L	H	H	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
	Left	Heat Pump	L	L	L	H	H	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
Right	Heat Pump	L	L	L	H	H	—	
2/4TEC3F48A	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Upflow	Heat Pump	L	L	L	L	M	—
	Vertical	A/C or Elec. Furnace	L	L	L	L	N/A	—
	Downflow	Heat Pump	L	L	L	H	N/A	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
	Left	Heat Pump	L	L	L	L	L	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
Right	Heat Pump	L	L	L	L	L	—	
2/4TEC3F60A	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Upflow	Heat Pump	L	L	L	L	ML	—
	Vertical	A/C or Elec. Furnace	L	L	L	L	L	—
	Downflow	Heat Pump	L	L	L	ML	MH	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
	Left	Heat Pump	L	L	L	ML	ML	—
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	—
Right	Heat Pump	L	L	L	ML	L	—	



Electrical Data

2/4TEC3F18A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
BAYHTR1405+++	1/1	4.80	16400	20	27	30	3.60	12300	17.3	24	25
BAYHTR1408 BAYHTR1408+++	1/1	7.68	26200	32	42	45	5.76	19700	27.7	37	40
BAYHTR1410 +++	1/1	9.60	32800	40	52	60	7.20	24600	34.6	45	45
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30	37	40

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, PDC 000 = pigtails, PDC= contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

2/4TEC3F24A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
BAYHTR1405+++	1/1	4.80	16400	20	27	30	3.60	12300	17.3	24	25
BAYHTR1408 BAYHTR1408+++	1/1	7.68	26200	32	42	45	5.76	19700	27.7	37	40
BAYHTR1410 +++	1/1	9.60	32800	40	52	60	7.20	24600	34.6	45	45
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30	37	40
BAYHTR1415 BRK	2/1	15.36	52400	40/24	52*/30	60*/30	11.53	39300	34.6/20.8	45*/26	45*/30
BAYHTR3415 000	1/3	15.36	52400	38.2	49	50	11.53	39300	33.1	43	45

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, PDC 000 = pigtails, PDC= contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

2/4TEC3F30A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
BAYHTR1405+++	1/1	4.80	16400	20	27	30	3.60	12300	17.3	24	25
BAYHTR1408 BAYHTR1408+++	1/1	7.68	26200	32	42	45	5.76	19700	27.7	37	40
BAYHTR1410 +++	1/1	9.60	32800	40	52	60	7.20	24600	34.6	45	45
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30	37	40
BAYHTR1415 BRK	2/1	15.36	52400	40/24	52*/30	60*/30	11.53	39300	34.6/20.8	45*/26	45*/30
BAYHTR3415 000	1/3	15.36	52400	38.2	49	50	11.53	39300	33.1	43	45

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, PDC 000 = pigtails, PDC= contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.



Electrical Data

2/4TEC3F36A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
BAYHTR1405+++	1/1	4.80	16400	20	27	30	3.60	12300	17.3	24	25
BAYHTR1408 BAYHTR1408+++	1/1	7.68	26200	32	42	45	5.76	19700	27.7	37	40
BAYHTR1410 +++ BAYHTR3410 000	1/1	9.60	32800	40	52	60	7.20	24600	34.6	45	45
BAYHTR1415 BRK	2/1	15.36	52400	40/24	52*/30	60*/30	11.53	39300	34.6/20.8	45*/26	45*/30
BAYHTR3415 000	1/3	15.36	52400	38.2	49	50	11.53	39300	33.1	43	45
BAYHTR1419 BRK	2/1	19.20	65500	32/48	43*/60	45*/60	14.42	49200	27.7/41.6	37*/52	40*/60

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, PDC 000 = pigtails, PDC= contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

2/4TEC3F42P WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
BAYHTR1405 +++	1/1	4.80	16400	20	29	30	3.60	12300	17.3	26	30
BAYHTR1408 +++	1/1	7.68	26200	32	44	45	5.76	19700	27.7	39	40
BAYHTR141 +++-	1/1	9.60	32800	40	54	60	7.20	24600	34.6	47	50
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30	37	40
BAYHTR1415 BRK	2/1	15.36	52400	40/24	54*/30	60*/30	11.53	39300	34.6/20.8	47*/26	50*/30
BAYHTR3415 000	1/3	15.36	52400	38.2	51	60	11.53	39300	33.1	45	45
BAYHTR1419 BRK	2/1	19.20	65500	32/48	44*/60	45*/60	14.42	49200	27.7/41.6	39*/52	40*/60

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.



Electrical Data

2/4TEC3F48A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit *)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
NONE	1/1	N/A	N/A	N/A	3.4	15	N/A	N/A	N/A	3.4	15
BAYHTR1405 +++	1/1	4.80	16400	20	28	30	3.60	12300	17.3	25	30
BAYHTR1408 +++	1/1	7.68	26200	32	43	45	5.76	19700	27.7	39	40
BAYHTR1410 +++	1/1	9.60	32800	40	53	60	7.20	24600	34.6	47	50
BAYHTR1415 +++	2/1	15.36	52400	40/24	53*/30	60*/30	11.53	39300	34.6/20.8	47*/26	50*/30
BAYHTR1415 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	15.36	52400	64	89	90	11.53	39300	55.4	78	80
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30.0	37	40
BAYHTR3415 000	1/3	15.36	52400	38.2	51	60	11.53	39300	33.1	44	45
BAYHTR1419 000	2/1	19.20	65500	32/48	43*/60	45*/60	14.42	49200	17.7/41.6	38*/52	40*/60
BAYHTR1419 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	19.2	65500	80	109	110	14.42	49200	69.3	96	100

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

2/4TEC3F60A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit *)											
Heater Model No.	Number of Circuits/Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
NONE	1/1	N/A	N/A	N/A	4.8	15	N/A	N/A	N/A	4.8	15
BAYHTR1405 +++	1/1	4.80	16400	20	30	30	3.60	12300	20	26	30
BAYHTR1408 +++	1/1	7.68	26200	32	45	45	5.76	19700	27.7	39	40
BAYHTR1410 +++	1/1	9.60	32800	40	55	60	7.20	24600	34.6	48	50
BAYHTR1415 +++	2/1	15.36	52400	40/24	55*/30	60*/30	11.53	39300	34.6/20.8	48*/26	50*/30
BAYHTR1415 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	15.36	52400	64	89	90	11.53	39300	55.4	78	80
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30.0	37	40
BAYHTR3415 000	1/3	15.36	52400	38.2	52	60	11.53	39300	33.1	45	45
BAYHTR1419 000	2/1	19.20	65500	32/48	45*/60	45*/60	14.42	49200	17.7/41.6	39*/52	40*/60
BAYHTR1419 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	19.2	65500	80	109	110	14.42	49200	69.3	96	100

NOTES:
 * Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
 +++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
 IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.



Electrical Data

Unit Wiring Diagram 2/4TEC3F18-48A1000A

WARNING

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
Failure to disconnect power before servicing can cause severe personal injury or death.

CAUTION

USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
Failure to do so may cause damage to the equipment.

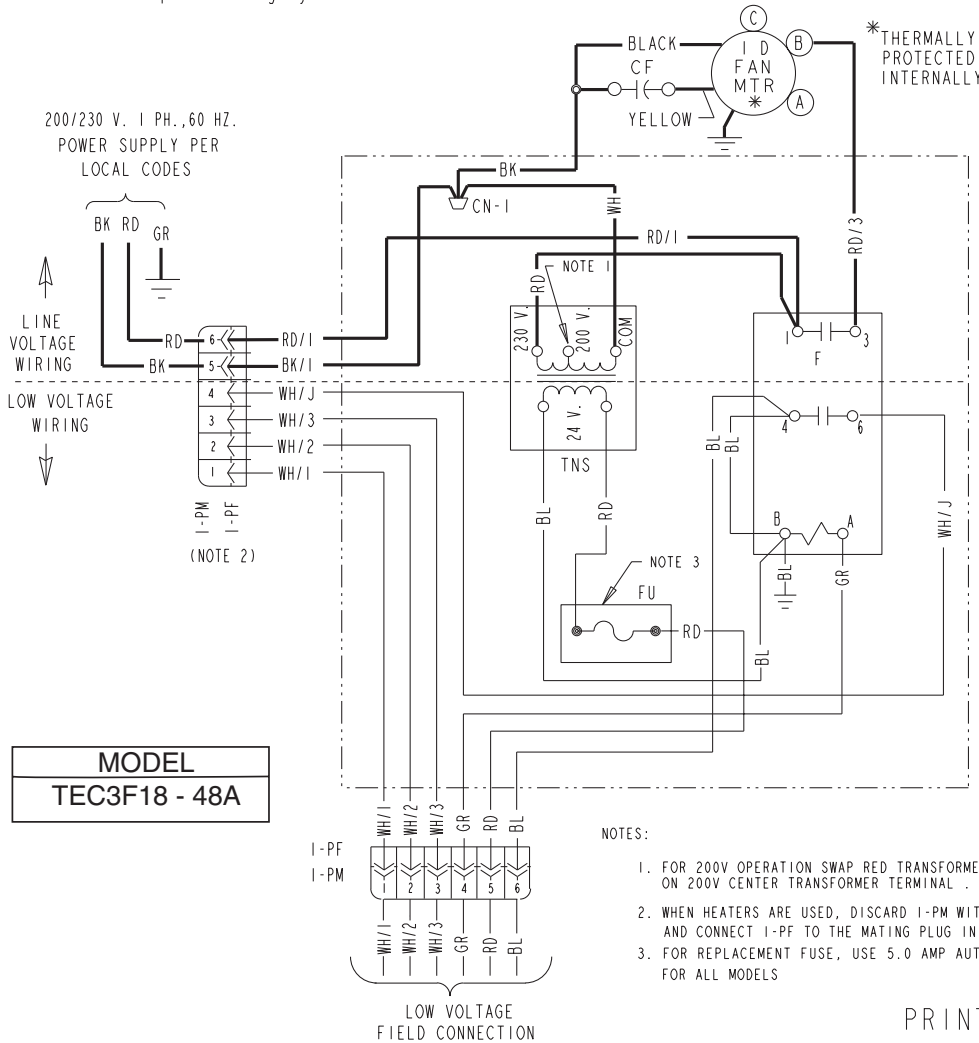
AIR FLOW SELECTION	
TERM	SPEED
A	LOW
B	MED
C	HIGH

LEGEND

- 24 V.
- LINE V.
- ⊥ GROUND
- JUNCTION
- ⊢ CAPACITOR
- △ WIRE CONNECTOR
- TERMINAL
- ≡ TRANSFORMER
- ⊢ FUSE
- ⊢ RELAY CONTACT NO
- ⊢ MAGNETIC COIL
- | | | |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

 POL. PLUG FEMALE (MALE TERMINALS)
- | | | |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

 POL. PLUG MALE (FEMALE TERMINALS)
- CN WIRE CONNECTOR
- CF FAN CAPACITOR
- F FAN RELAY
- FU FUSE
- PCB PRINTED CIRCUIT BOARD
- PF POLARIZED PLUG (FEMALE HOUSING)
- PM POLARIZED PLUG (MALE HOUSING)
- TNS TRANSFORMER
- COLOR OF WIRE
- BK/BL BLACK WIRE WITH BLUE MARKER
- COLOR OF MARKER
- BK BLACK RD RED OR ORANGE
- BL BLUE WH WHITE GR GREEN
- BR BROWN YL YELLOW PR PURPLE



PRINTED FROM 21C800722 P01

Electrical Data

Unit Wiring Diagram 2/4TEC3F60A1000A

WARNING

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
Failure to disconnect power before servicing can cause severe personal injury or death.

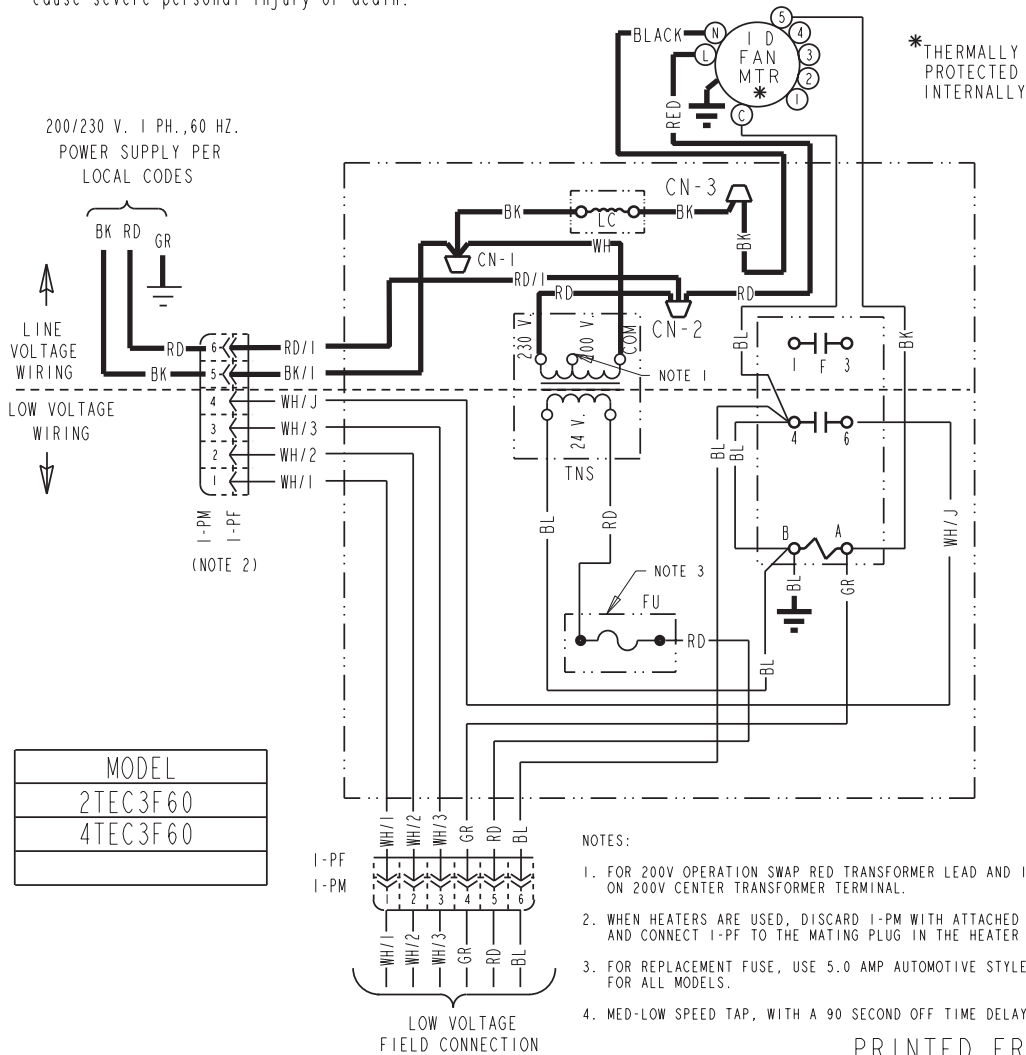
CAUTION

USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
Failure to do so may cause damage to the equipment.

AIR FLOW SELECTION	
TERM	SPEED
1	LOW
2	MED-LO
3	MED-HI
4	HIGH
5	NOTE 4

LEGEND

- 24 V.
- LINE V.
- GROUND
- JUNCTION
- CAPACITOR
- WIRE CONNECTOR
- TERMINAL
- TRANSFORMER
- FUSE
- RELAY CONTACT NO
- MAGNETIC COIL
- POL. PLUG FEMALE (MALE TERMINALS)
- POL. PLUG MALE (FEMALE TERMINALS)
- CN WIRE CONNECTOR
- CF FAN CAPACITOR
- F FAN RELAY
- FU FUSE
- PCB PRINTED CIRCUIT BOARD
- PF POLARIZED PLUG (FEMALE HOUSING)
- PM POLARIZED PLUG (MALE HOUSING)
- TNS TRANSFORMER
- LC LINE CHOKE
- COLOR OF WIRE
- BK/BL BLACK WIRE WITH BLUE MARKER
- COLOR OF MARKER
- BK BLACK RD RED OR ORANGE
- BL BLUE WH WHITE GR GREEN
- BR BROWN YL YELLOW PR PURPLE



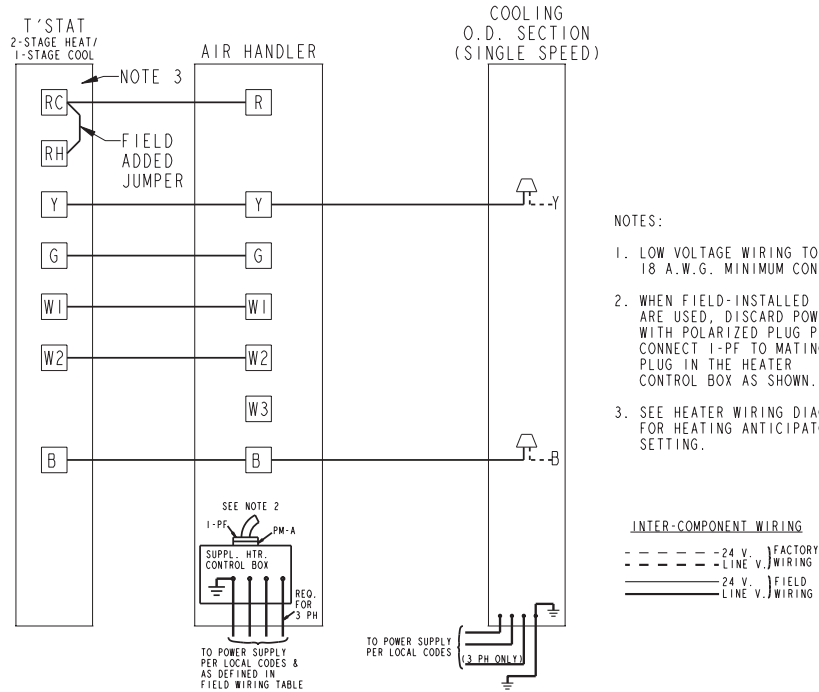
MODEL
2TEC3F60
4TEC3F60

PRINTED FROM D801540P01 REV06

NOTE: Motor Speed Tap # 5 must be selected if a time delay function is required.

Field Wiring

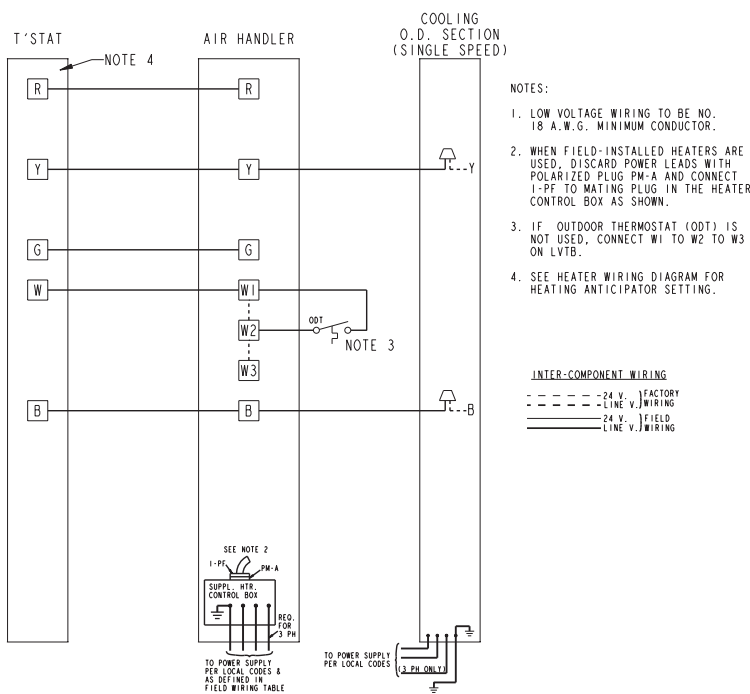
Air Handler with Single Speed Cooling Unit, 2 Stage Heat



- NOTES:
1. LOW VOLTAGE WIRING TO BE NO. 18 A.W.G. MINIMUM CONDUCTOR.
 2. WHEN FIELD-INSTALLED HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG PM-A AND CONNECT 1-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
 3. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTING.

From Dwg. 21B801081 Rev. 1

Air Handlers with Single Speed Cooling Unit, 1 Stage Heat

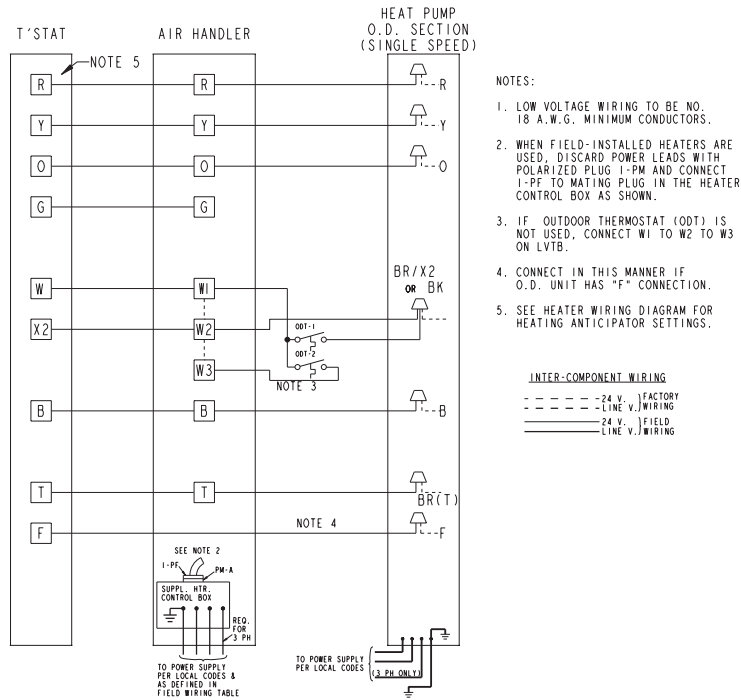


- NOTES:
1. LOW VOLTAGE WIRING TO BE NO. 18 A.W.G. MINIMUM CONDUCTOR.
 2. WHEN FIELD-INSTALLED HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG PM-A AND CONNECT 1-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
 3. IF OUTDOOR THERMOSTAT (ODT) IS NOT USED, CONNECT W1 TO W2 TO W3 ON LVTB.
 4. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTING.

From Dwg. 21B801083 Rev. 1

Field Wiring

Field Wiring Diagrams for Air Handlers with Heat Pump



From Dwg. 21B801082 Rev. 1

Air Handler Subbase

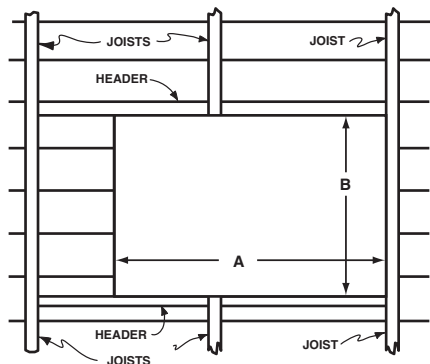


FIG. 2

FLOOR OPENING - SIZE		
MODEL NO.	A	B
TAYBASE100	23-3/4	14-13/16
TAYBASE101	21-3/4	14-13/16

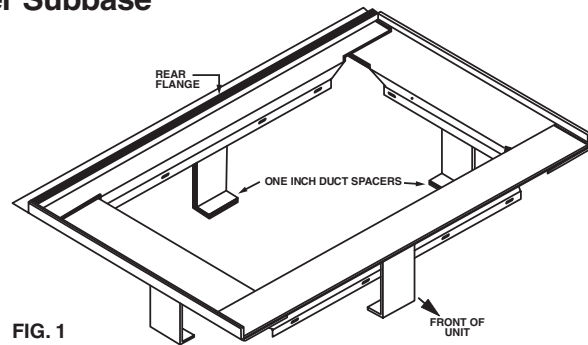


FIG. 1

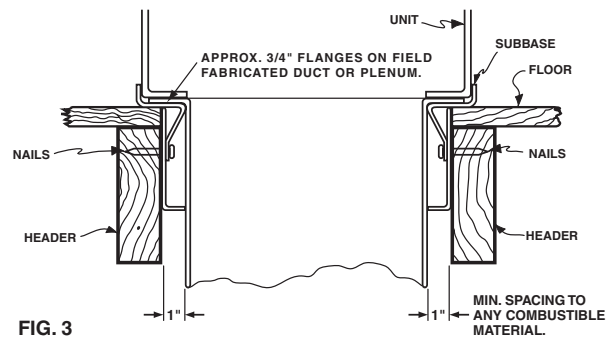


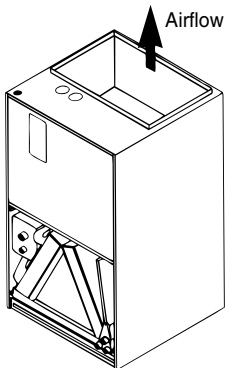
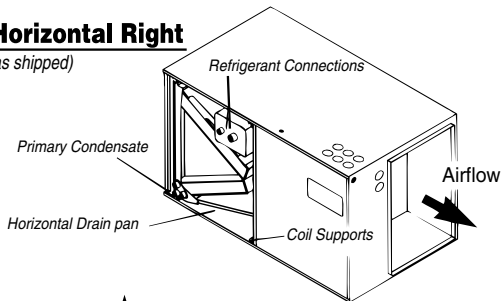
FIG. 3

2/4TEC3F18-60A1000A Convertibility

Six (6) Way Convertibility

One Unit - 4 Applications (Conversions 1-4)

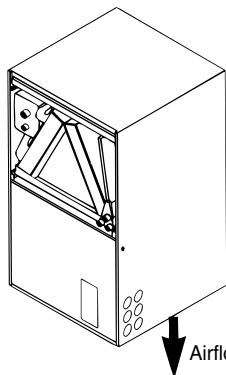
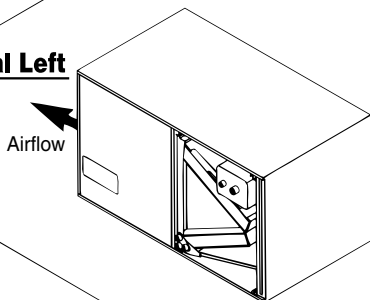
Horizontal Right (as shipped)



Vertical Upflow

(as shipped)
One-step Conversion
Stand unit on end

Horizontal Left Rotate Coil

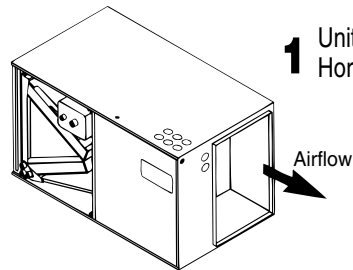


Vertical Downflow

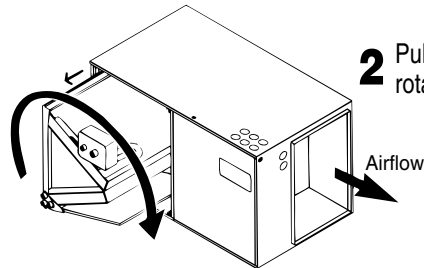
One-step Conversion
from Horizontal left

Easy Conversion to Opposite Side Access (Conversions 5 & 6)

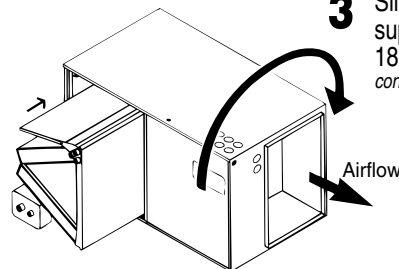
1 Unit is shipped as Horizontal right



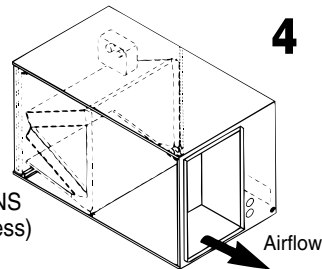
2 Pull coil out and rotate the coil 180°



3 Slide coil back in on supports and roll unit 180° (so primary condensate is down)



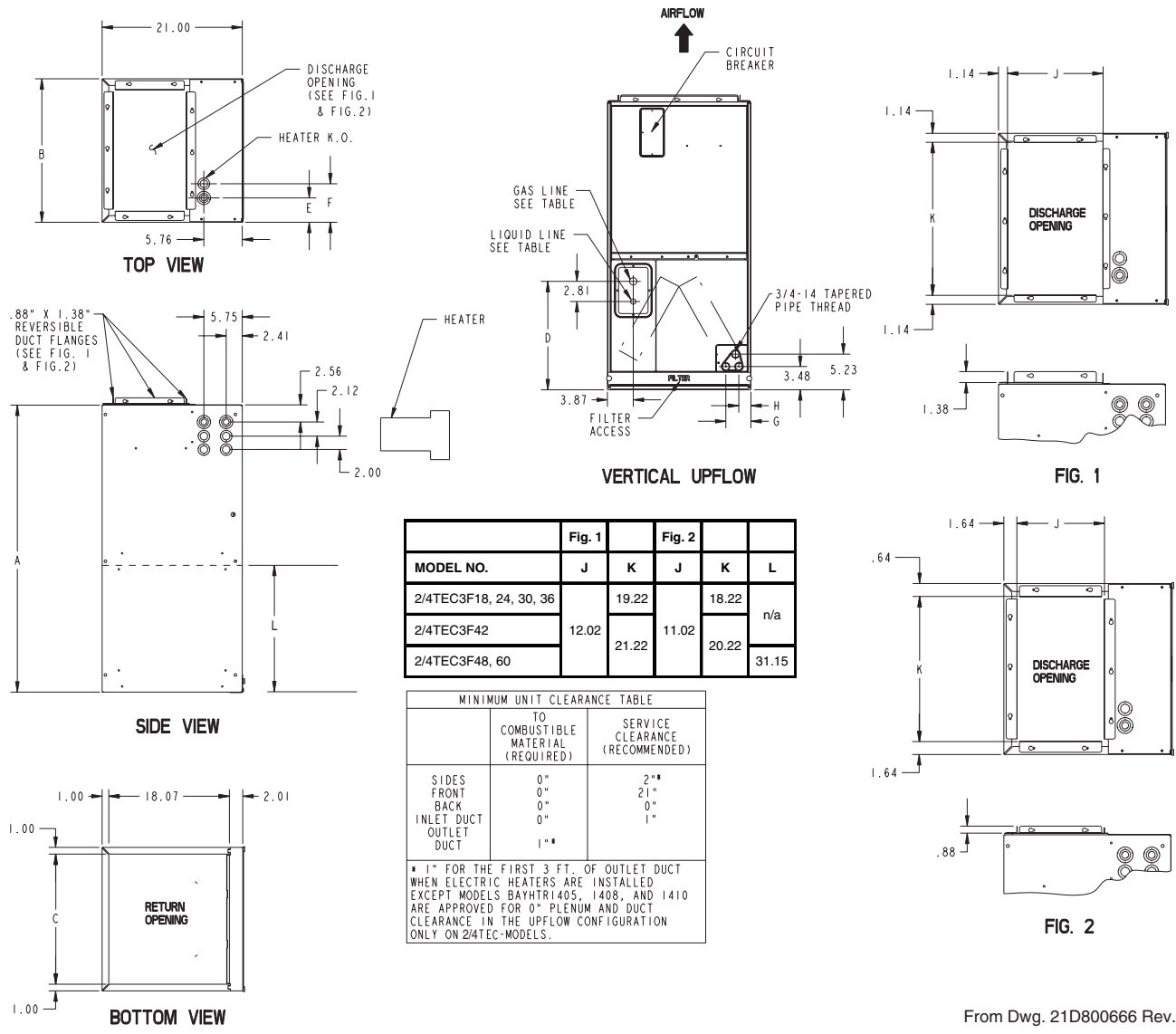
4 Note connections and access are now on back side of unit



- 6 CONVERSION APPLICATIONS
1. Horizontal Right - (Front Access)
 2. Vertical Upflow
 3. Horizontal Left - (Front Access)
 4. Vertical Downflow
 5. Horizontal Right - (Rear Access)
 6. Horizontal Left - (Rear Access)

Dimensions

Outline Drawing for 2/4TEC3F18-60A1000A



MODEL NO.	Fig. 1		Fig. 2		L
	J	K	J	K	
2/4TEC3F18, 24, 30, 36		19.22	18.22		n/a
2/4TEC3F42	12.02	21.22	11.02	20.22	
2/4TEC3F48, 60					31.15

	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	1"
OUTLET DUCT	1"	

* 1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED EXCEPT MODELS BAYHTRI405, 1408, AND 1410 ARE APPROVED FOR 0" PLENUM AND DUCT CLEARANCE IN THE UPFLOW CONFIGURATION ONLY ON 2/4TEC-MODELS.

From Dwg. 21D800666 Rev. 6

Model No.	A	B	C	D	E	F	G	H	FLOW CONTROL	R-22 (2TEC)		R-410 (4TEC)	
										GAS LINE BRAZE	LIQ. LINE BRAZE	GAS LINE BRAZE	LIQ. LINE BRAZE
*TEC3F18A	43	21.50	19.50	15.57	3.65	5.77	3.62	1.89	TXV/NB	5/8	1/4	1/2	1/4
*TEC3F24A				3/4						5/16	5/8	5/16	
*TEC3F30A				7/8						3/8	3/4	3/8	
*TEC3F36A	45	23.50	21.50	17.57	4.65	6.77	3.62	1.89	TXV/NB	7/8	3/8	3/4	3/8
*TEC3F42A				1-1/8						7/8	7/8	3/8	
*TEC3F48A, *TEC3F60A				1-1/8						7/8	7/8	3/8	

* = 2 or 4

Mechanical Specification Options

General

Blower coil units shall be completely factory assembled including coil, condensate drain pan, fan, motor, filters and controls in an insulated casing that can be applied in horizontal or vertical configuration. The "F" model indicates an "Air-Tite™" model with 4.2 "R" value insulation and additional sealing systems.

This new line of 2/4TEC-A Air Handlers provides exclusive compact size combined with simple 6-way convertibility in sizes up to 5 Tons. The unit ships in the right-hand horizontal configuration and converts to vertical upflow just by standing the unit on end. No tools required. Simple coil rotation provides downflow and horizontal left applications.

The 6-way convertibility provides you inventory benefits and service/installation flexibility. The simple conversion provides opposite side access for installation and service.

These Air Handlers enjoy the best reputation in the industry. Superior airflow, great sound level, reliability and performance are responsible for the industry leadership. We are not about to give up such top performance.

Units shall be UL listed.

Casing

Units shall have a rugged sheet metal and steel frame construction and shall be painted with an enamel finish. Casing shall be insulated and knockouts for electrical power and control wiring.

Refrigerant Circuits

The 2/4TEC-A units have a single refrigerant circuit. 2/4TEC3F18-60A refrigerant circuit shall be controlled by a factory-installed non-bleed thermal expansion valve.

Coil

Aluminum fin surface shall be mechanically bonded to 3/8-inch OD copper tubing. Coils are factory pressure and leak tested.

Fan

Forward curved, dynamically balanced and statically balanced with 3-speed direct drive shall be standard, fan motor bearing shall be permanently lubricated.

Controls

Low voltage pig tails, fan contactor, and plug-in module for accessory electric heat control shall be included. 2/4TEC models also include check valves.

Filters

Filters shall be included as standard, one-inch low velocity semi-permanent type (except 5-ton - washable filter).

Accessories

Electric Heaters — Shall be available in a wide range of capacities and voltages with various staging options, and plug-in control wiring. Heaters shall fit inside the internal compartment.



P.I.



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