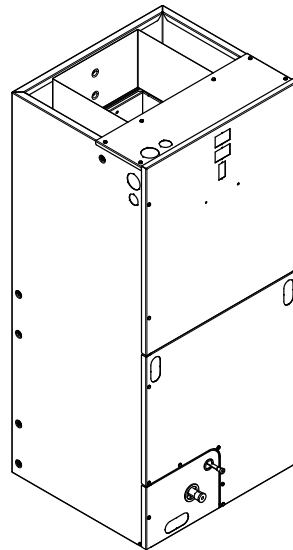


Submittal

Variable Speed Convertible Air Handler 2 Ton

TEM6A0B24H21S



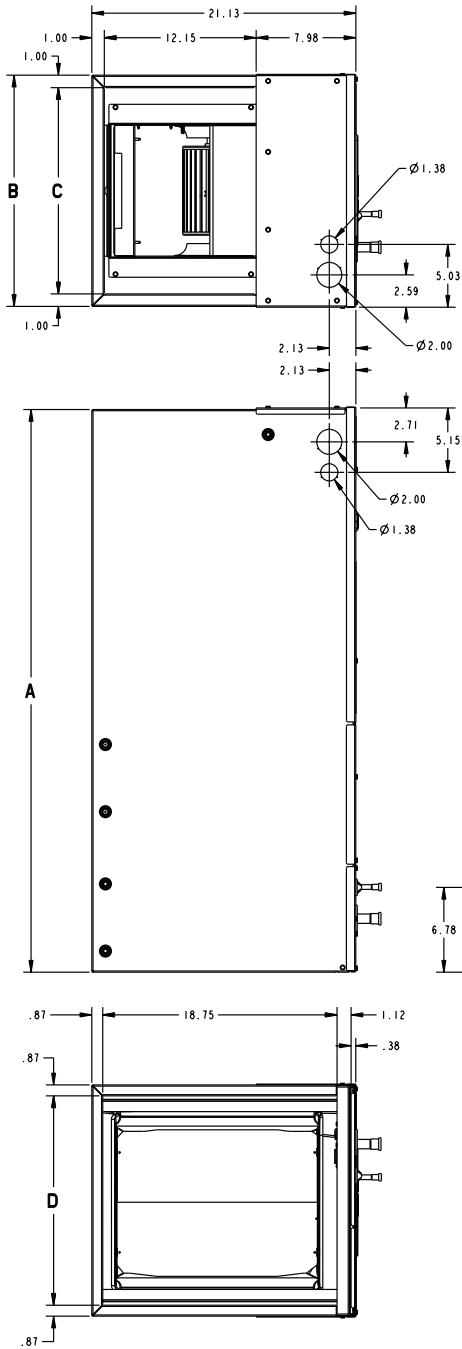
Note: The TEM6 series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment. Field installed electric resistance heaters are available.

TAG: _____

⚠ SAFETY WARNING

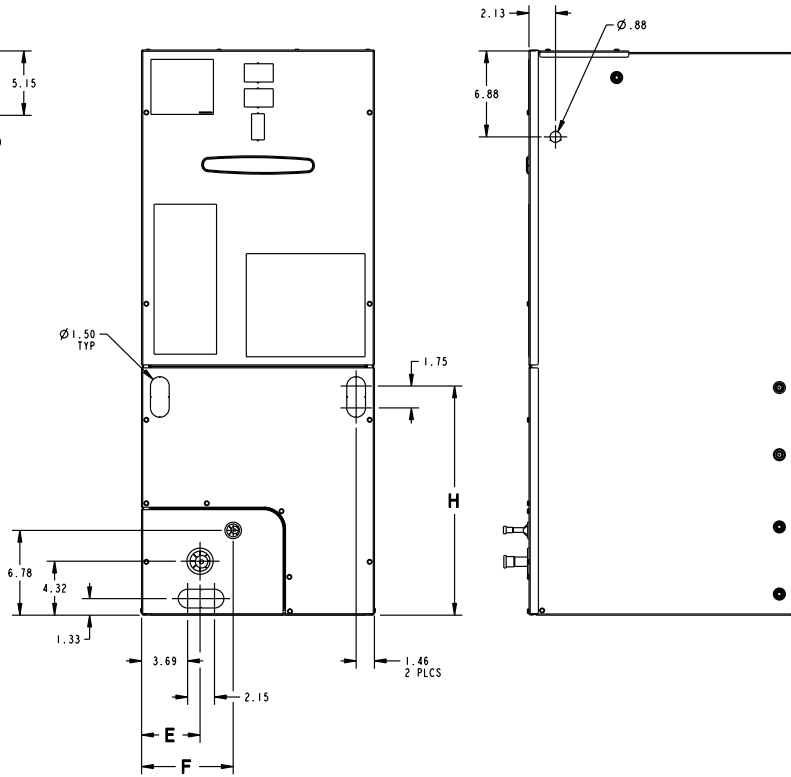
Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

Outline Drawing



MINIMUM UNIT CLEARANCE TABLE		
	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	1"
OUTLET DUCT	1"+	N/A

* 1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED; 0" AFTER THE FIRST 3 FT.



PRODUCT DIMENSIONS									
Air Handler Model	A	B	C	D	E	F	H	Flow Control	Gas Line Braze
TEM6A0B24H21SA	46.77	18.50	16.50	16.75	4.68	7.33	20.09	TXV	3/4

All dimensions are in inches

Product Specifications

MODEL	TEM6A0B24H21SA
RATED VOLTS/PH/HZ	208-230/1/60
RATINGS^(a)	See O.D. Specifications
INDOOR COIL — Type	Plate Fin
Rows — F.P.I.	4 - 14
Face Area (sq. ft.)	3.44
Tube Size (in.)	3/8
Refrigerant Control	TXV
Drain Conn. Size (in.) ^(b)	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing
INDOOR FAN — Type	Centrifugal
Diameter-Width (In.)	10 X 8
No. Used	1
Drive - No. Speeds	Direct - 16
CFM vs. in. w.g.	See Fan Performance Table
No. Motors — H.P.	1 - 1/3
Motor Speed R.P.M.	Variable

Volts/Ph/Hz	208-230/1/60
F.L. Amps	2.8
FILTER	
Filter Furnished? ^(c)	No
REFRIGERANT	R-410A
Ref. Line Connections	Brazed
Coupling or Conn. Size — in. Gas	3/4
Coupling or Conn. Size — in. Liq.	3/8
DIMENSIONS	H x W x D
Crated (In.)	48-1/4 x 22-1/2 x 25-1/2
Uncrated	46-3/4 x 18-1/2 x 21-1/8
WEIGHT	
Shipping (Lbs.) / Net (Lbs.)	126/117

^(a) These Air Handlers are A.H.R.I certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

^(b) 3/4" Male Plastic Pipe (Ref: ASTM 1785-76)

^(c) Remote filter required.

Minimum Airflow CFM

TEM6A0B24H21S		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRKC, BAYHTR1504LUGB BAYHTR1505BRKC, BAYHTR1505LUGB	550	600
BAYHTR1508BRKC, BAYHTR1508LUGB	800	600
BAYHTR1510BRKC, BAYHTR1510LUGB	825	700
BAYHTR1516BRKA	1050	850
BAYHTR3510LUGC	800	600
BAYHTR3515LUGC	900	850

TEM6A0B24H21 Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	601	
Med-Lo	OFF	ON	723	
Med-Hi	ON	OFF	851	
High	OFF	OFF	973	

Heater Pressure Drop Table

Airflow CFM	Number of Racks				Heater Racks	
	1	2	3	4	Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					
1800	0.02	0.04	0.06	0.14	BAYHTR1504	1
1700	0.02	0.04	0.06	0.14	BAYHTR1505	1
1600	0.02	0.04	0.06	0.13	BAYHTR1508	2
1500	0.02	0.04	0.06	0.12	BAYHTR1510	2
1400	0.02	0.04	0.06	0.12	BAYHTR1516	3
1300	0.02	0.04	0.05	0.11	BAYHTR3510	3
1200	0.01	0.04	0.05	0.10	BAYHTR3515	3
1100	0.01	0.03	0.05	0.09	BAYHTR1522	4
1000	0.01	0.03	0.04	0.09	BAYHTR1525	4
900	0.01	0.03	0.04	0.08		
800	0.01	0.03				
700	0.01	0.02				
600	0.01	0.02				

Subcooling Adjustment

System Matched with:	Indoor Unit Model No.	Outdoor Model No.	Subcooling
16 SEER HP — 2 ton	TEM6A0C36H31	4TWR6024H1000A 4TWX6024H1000A 4A6H6024H1000A	13 Degrees
15 SEER HP — 2 ton	TEM6A0B24H21 TEM6A0B30H21	4TWR5024G1000A 4A6H5024G1000A	14 Degrees
15 SEER HP — 3 ton	TEM6A0B30H21 TEM6A0C36H31 TEM6A0C42H41	4TWR5036G1000A 4A6H5036G1000A	14 Degrees
All other matches must be charged per the nameplate charging instructions			

Performance and Electrical Data

Table 1. Air Flow Performance

TEM6A0B24, TEM6A0B30 COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	353 CFM/ton	ON	ON	OFF	ON	CFM Watts	533 52	497 78	461 104	425 130	390 157
	NORMAL	401 CFM/ton	ON	ON	OFF	OFF	CFM Watts	611 65	580 95	548 125	517 155	486 185
	HIGH	451 CFM/ton	ON	ON	ON	OFF	CFM Watts	684 81	668 115	644 148	611 182	570 215
2	LOW	343 CFM/ton	OFF	ON	OFF	ON	CFM Watts	687 82	672 115	648 149	614 182	571 215
	NORMAL	390 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	789 104	798 145	780 183	735 216	663 246
	HIGH	439 CFM/ton	OFF	ON	ON	OFF	CFM Watts	884 135	887 177	882 230	845 274	751 290
2.5	LOW	300 CFM/ton	ON	OFF	OFF	ON	CFM Watts	752 92	749 123	729 167	691 211	636 241
	NORMAL	340 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	859 128	861 172	863 211	830 242	727 268
	HIGH	383 CFM/ton	ON	OFF	ON	OFF	CFM Watts	963 172	973 223	995 263	967 291	844 308
3	LOW	323 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	959 169	962 217	974 263	940 297	816 311
	NORMAL	367 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1097 240	1100 296	1100 343	1034 363	858 341
	HIGH	413 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1192 304	1150 331	1115 354	1031 361	856 339

Table 2. Air Flow Performance

TEM6A0B24, TEM6A0B30 HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	394 CFM/ton	ON	ON	OFF	ON	CFM Watts	599 58	571 88	539 117	502 146	462 175
	NORMAL	448 CFM/ton	ON	ON	OFF	OFF	CFM Watts	680 72	665 109	641 145	610 178	572 209
	HIGH	493 CFM/ton	ON	ON	ON	OFF	CFM Watts	748 89	746 118	682 163	545 208	326 240
2	LOW	393 CFM/ton	OFF	ON	OFF	ON	CFM Watts	785 97	790 128	773 175	735 223	674 253
	NORMAL	446 CFM/ton	OFF	ON	OFF	OFF	CFM Watts	904 131	902 179	912 219	894 253	809 281
	HIGH	491 CFM/ton	OFF	ON	ON	OFF	CFM Watts	980 167	972 216	990 268	974 308	863 324
2.5	LOW	350 CFM/ton	ON	OFF	OFF	ON	CFM Watts	866 125	870 162	866 215	833 263	750 286
	NORMAL	398 CFM/ton	ON	OFF	OFF	OFF	CFM Watts	995 171	988 222	1005 271	986 309	872 325
	HIGH	437 CFM/ton	ON	OFF	ON	OFF	CFM Watts	1099 220	1086 274	1098 328	1065 362	918 353
3	LOW	338 CFM/ton	OFF	OFF	OFF	ON	CFM Watts	1010 174	1001 224	1018 275	1000 315	888 331
	NORMAL	384 CFM/ton	OFF	OFF	OFF	OFF	CFM Watts	1154 246	1151 312	1135 350	1066 361	905 345
	HIGH	422 CFM/ton	OFF	OFF	ON	OFF	CFM Watts	1245 305	1167 322	1127 346	1067 361	927 352

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.

Table 3. Electrical Data

TEM6A0B24, TEM6A0B30 HEATER DATA											
Heater Model No.	No. of Circuits/ Phases	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			
No Heater				2.8 *	4	15			2.8 *	4	15
BAYHTR1504BRKC BAYHTR1504LUGB	1/1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25
BAYHTR1505BRKC BAYHTR1505LUGB	1/1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25
BAYHTR1508BRKC BAYHTR1508LUGB	1/1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYHTR1510BRKC BAYHTR1510LUGB	1/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1516BRKA Circuit 1 ^(a)	2/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1516BRKA Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR3510LUG	1/3	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYHTR3515LUG	1/3	14.40	49100	34.6	46	50	10.80	36900	30.0	41	45

* = Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps

Features and Benefits

- Painted metal cabinet with captured foil face insulation
- 2% or less air leakage
- R-4.2 Insulating Value
- Multi-Position UP/Down Flow, Horizontal Left /Right
- ALL Aluminum Coil with Enhanced Patented Coil Fin
- Electric Heaters with polarized plug connections (sold as accessory)
- R-410A Thermal Expansion Valve
- Variable Speed ECM Motor
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain Pan
- Single Color
- Fused 24V Power
- **1 year warranty**
- **10-year warranty registered**
- **Optional extended warranty available**



The manufacturer optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, the manufacturer offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts. For more information, visit www.IRCO.com.

The manufacturer has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice.

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Supersedes TEM6A0B24-SUB-1-EN (December 2014)

