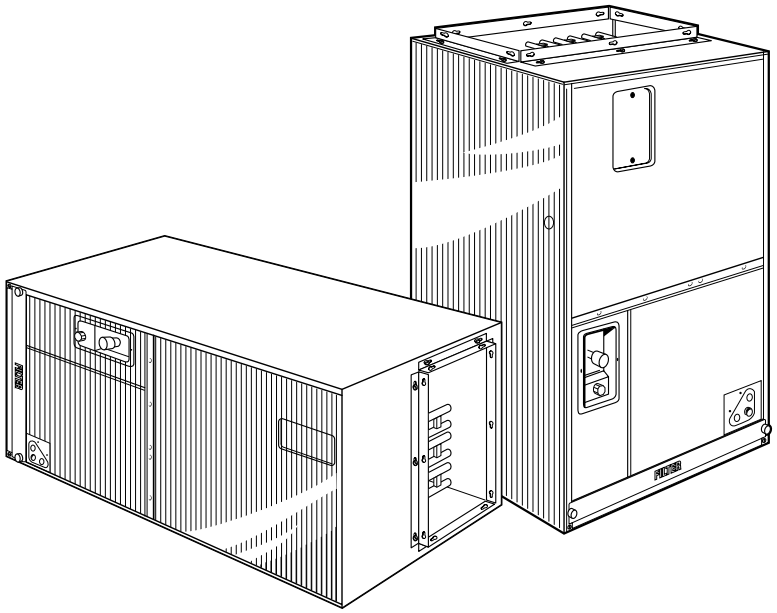
TRANE®

TWE-D-3

Cooling/Heat Pump Convertible Air Handlers

TWE018-063P, 2TEP3F48-63B

1½ – 5 Ton



PUB. NO. 22-1667-06-0704 (EN)

Features and Benefits

- 12.0 SEER
- Ships horizontal — converts to vertical by standing unit on end.
- Six-way convertibility – horizontal (left & right), front and rear access; upflow, downflow
- “1-man” installation opportunity
- Electrical, refrigerant, condensate & 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 & 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

Selection Procedure

Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12
T	W	E	0	3	0	P	1	3	0	B	0

PRODUCT TYPE
TW = Split System Component Heat Pump Compatible

AIRFLOW CONFIGURATION
V = Vertical
H = Horizontal
E = Convertible

REFRIGERANT CONNECTIONS
0 = Brazed

NOMINAL NET COOLING CAPACITY (MBH)

MAJOR DEVELOPMENT SEQUENCE
C,D = Standard System
P = High Efficiency System
B = Built-In Fan Delay Function
E = Electronic Variable Speed
All Other

POWER SUPPLY
1 = 208-230/1/60

REFRIGERANT FLOW CONTROL
3 = Non Bleed TXV
4 = “Accutron™” Flow Control/Check Valve
5 = Bleed TXV

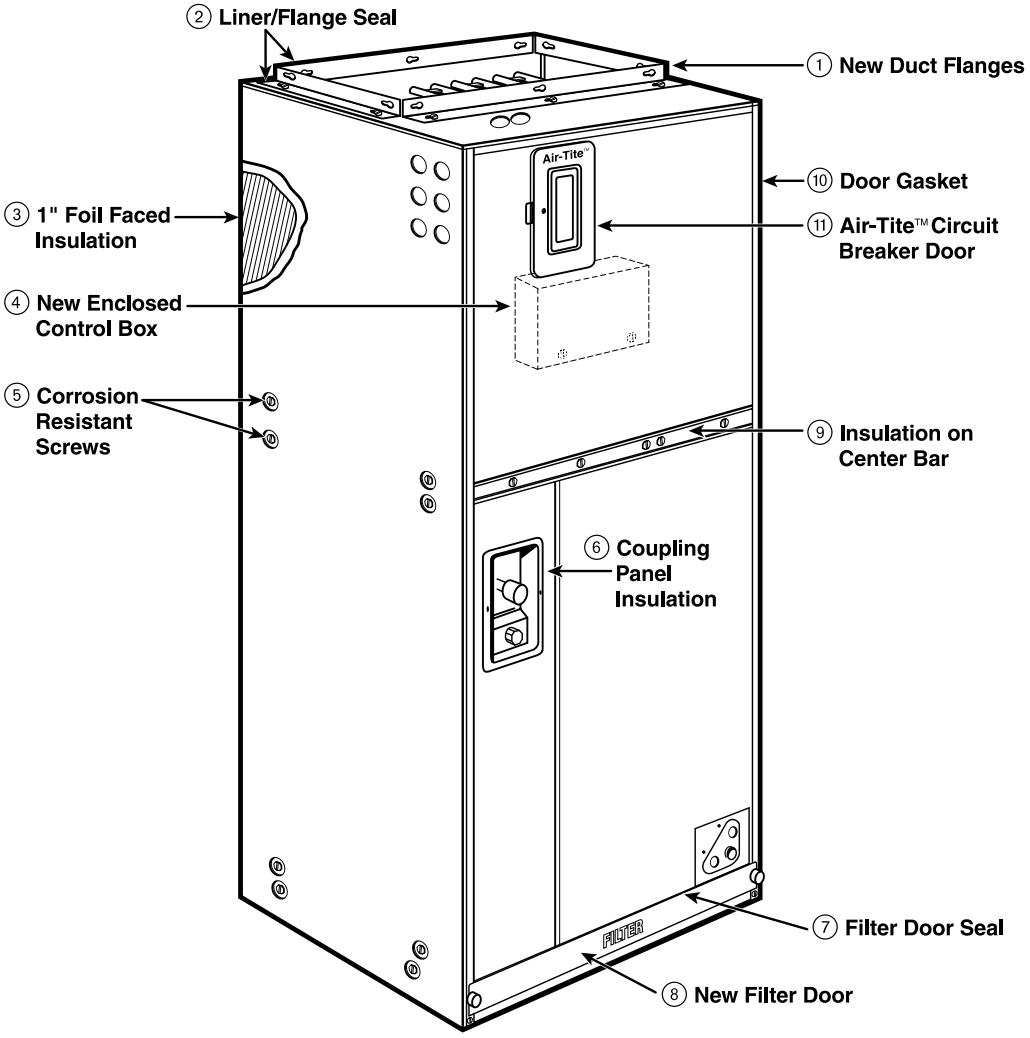
F = “Air-Tite™”
0 = Standard System

MINOR DESIGN MODIFICATION

PRODUCT SERVICE CHANGE

Contents

"Air-Tite™" Features and Benefits



① **New Duct Flange** – Allows flush fit for 3/4", 1" or 1 1/2" duct insulation.

② **Liner/Flange Seal** – Exclusive Duct Flange Thermal Break/ Seal and double wall construction to reduce cabinet loss and sweating.

③ **1" Foil Faced Insulation** – Thicker foil faced insulation for reduced cabinet loss, sweating and lower power bills.

④ **Enclosed Control Box** – Totally enclosed control box with transformer inside to improve component life, unit durability and reliability.

⑤ **Corrosion Resistant Screws** – Exclusive "Weatherguard™" coated screws to maintain the quality appearance of the unit for the life of the product.

⑥ **Coupling Panel Insulation** – Exclusive "No Burn" refrigerant coupling panel with thicker insulation for reduced heat loss.

⑦ **Filter Door Seal** – Improved door seal for reduced air infiltration, heat transfer, and lower power bills.

⑧ **New Filter Door** – "Filter" is stamped on the panel, and includes two captive screws with easy grip knobs.

⑨ **Insulation on Center Bar** – Exclusive center bar insulation for reduced cabinet loss, sweating and lower power bills.

⑩ **Door Gasket** – Exclusive formed gasket (similar to a car door gasket) to reduce air infiltration and heat transfer and lower power bills.

⑪ **Air-Tite™ Circuit Breaker Door** – Easy access to breakers with positive air seal.

The SEER test for system efficiency places the air handler in the ambient return air stream (80°F). If your air handler is to be in an unconditioned/severe climatic location you should consider the advantages of the "Air-Tite™" model air handler.

General Data

MODEL	TWE018P13,0B,FB	TWE024P13,0B,FB	TWE030P13,0B,FB
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	3.21
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	1080	1080
Volts/Ph/Hz	200-230/1/60	200-230/1/60	200-230/1/60
F.L. Amps - L.R. Amps	1.4 - 3.1	1.6 - 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)			
Ref. Line Connections	Brazed	Brazed	Brazed
Coupling or Conn. Size — in. Gas	5/8	3/4	3/4
Coupling or Conn. Size — in Liq.	1/4	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	44-1/2 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	121/111

MODEL	TWE036P13,0B,FB	TWE042P13,0B,FB
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.)	3.90	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)		
Ref. Line Connections	Brazed	Brazed
Coupling or Conn. Size — in. Gas	7/8	7/8
Coupling or Conn. Size — in Liq.	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 A.R.I. 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	TWE048P13,0B,FB	2TEP3F48B1000B	TWE060P13,0B,FB
RATED VOLTS/PH/HZ.	200-230/1/60	200-230/1/60	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.	4 — 14	3 — 14	4 — 14
Face Area (sq. ft.)	6.19	6.19	6.19
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.)	10 x 10	11 x 10	10 x 10
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 — 1/2	1 — 1/2	1 — 1/2
Motor Speed R.P.M.	1075	1000	1075
Volts/Ph/Hz	200-230/1/60	200-230/1/60	200-230/1/60
F.L. Amps - L.R. Amps	3.1 - 6.6	2.7 - 4.5	3.1 - 6.6
FILTER			
Vertical Applications			
Filter Furnished?	Yes	Yes	Yes
Type Recommended	Throwaway	Throwaway	High Velocity
No.-Size-Thickness	1 - 20 x 25 x 1 in.	1 - 20 x 20 x 1 in.	1 - 20 x 25 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)			
Ref. Line Connections	Brazed	Brazed	Brazed
Coupling or Conn. Size — in. Gas	1-1/8	1-1/8	1-1/8
Coupling or Conn. Size — in Liq.	3/8	3/8	3/8
DIMENSIONS	H x W x D	H x W x D	H x W x D
Crated (in.)	53-1/2 x 26 x 23-1/2	59-1/2 x 26 x 23-1/2	53-1/2 x 26 x 23-1/2
Uncrated	See Outline Drawing	See Outline Drawing	See Outline Drawing
WEIGHT			
Shipping (Lbs.) / Net (Lbs.)	188/173	166/151	188/173

MODEL	TWE063P13,0B,FB	2TEP3F63B1000B
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.	4 — 14	3 — 14
Face Area (sq. ft.)	7.33	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 - 3
CFM vs. in w.g.	See Fan Performance Table	See Fan Performance Table
No. Motors — H.P.	1 — 3/4	1 — 3/4
Motor Speed R.P.M.	1075	1080
Volts/Ph/Hz	200-230/1/60	200-230/1/60
F.L. Amps - L.R. Amps	3.9 - 8.9	3.8 - 6.9
FILTER		
Vertical Applications		
Filter Furnished?	Yes	Yes
Type Recommended	Throwaway	High Velocity
No.-Size-Thickness	1 - 20 x 25 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)		
Ref. Line Connections	Brazed	Brazed
Coupling or Conn. Size — in. Gas	1-1/8	1-1/8
Coupling or Conn. Size — in Liq.	3/8	3/8
DIMENSIONS	H x W x D	H x W x D
Crated (in.)	64-1/2 x 28-1/2 x 23-1/2	59-1/2 x 26 x 23-1/2
Uncrated	See Outline Drawing	See Outline Drawing
WEIGHT		
Shipping (Lbs.) / Net (Lbs.)	211/196	170/155

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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

AIR FLOW PERFORMANCE TWE018P13,0B,FB												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
200			0.65			0.56			0.69			0.56
250			0.59			0.44			0.63			0.47
300			0.52		0.74	0.32			0.55			0.36
350			0.42		0.68	0.19			0.44			0.24
400			0.29	0.80	0.61	0.07			0.32		0.62	0.10
450			0.15	0.78	0.51				0.18		0.53	0.00
500		0.53	0.00	0.75	0.39				0.02		0.41	
550		0.48		0.71	0.25					0.65	0.27	
600	0.71	0.39		0.66	0.08			0.48		0.61	0.11	
650	0.66	0.25		0.61			0.67	0.42		0.57	0.00	
700	0.60	0.06		0.55			0.62	0.30		0.52		
750	0.54			0.48			0.57	0.13		0.46		
800	0.47			0.41			0.51	0.10		0.38		
850	0.40			0.33			0.44			0.30		
900	0.32			0.25			0.37			0.02		
950	0.24			0.15			0.28			0.09		
1000	0.16			0.05			0.19					
1050	0.07						0.09					

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

AIR FLOW PERFORMANCE TWE024P13,0B,FB												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
300						0.65						
350						0.63						
400			0.61			0.60					0.66	0.64
450			0.59		0.55	0.54			0.69		0.64	0.59
500		0.61	0.55		0.53	0.48			0.63		0.61	0.52
550	0.60	0.57	0.50	0.71	0.50	0.40		0.63	0.56	0.60	0.55	0.43
600	0.58	0.52	0.44	0.65	0.45	0.31	0.60	0.57	0.48	0.59	0.49	0.34
650	0.55	0.47	0.36	0.58	0.38	0.20	0.58	0.51	0.40	0.56	0.41	0.22
700	0.52	0.40	0.27	0.51	0.29	0.08	0.55	0.43	0.30	0.53	0.32	0.10
750	0.47	0.32	0.17	0.44	0.18		0.51	0.35	0.19	0.48	0.21	
800	0.42	0.24	0.05	0.37	0.06		0.46	0.26	0.08	0.43	0.09	
850	0.36	0.14		0.30			0.40	0.16		0.36		
900	0.30	0.04		0.23			0.33	0.05		0.28		
950	0.22			0.16			0.25			0.19		
1000	0.14			0.09			0.16			0.09		
1050	0.05			0.01			0.06					

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

Performance Data

AIR FLOW PERFORMANCE TWE030P13,0B,FB												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (SEE NOTES)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
500						0.55						
550						0.51						0.60
600					0.67	0.41						0.58
650			0.54		0.60	0.23			0.60			0.51
700			0.53		0.52	0.00			0.57		0.51	0.47
750		0.48	0.44	0.65	0.41			0.54	0.53		0.48	0.35
800	0.52	0.47	0.27	0.59	0.30		0.60	0.52	0.46	0.59	0.41	0.05
850	0.50	0.41	0.00	0.52	0.10		0.57	0.47	0.32	0.55	0.32	
900	0.47	0.30		0.42	0.01		0.54	0.40	0.03	0.52	0.21	
950	0.41	0.15		0.29			0.49	0.31		0.45	0.02	
1000	0.33	0.00		0.14			0.41	0.19		0.33		
1050	0.22			0.00			0.32	0.04		0.19		
1100	0.10						0.23			0.00		
1150	0.00						0.12					
1200							0.02					

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

AIR FLOW PERFORMANCE TWE036P13,0B,FB												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (SEE NOTES)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
650						0.50					0.83	0.60
700					0.72	0.47					0.80	0.58
750					0.70	0.42			0.68		0.76	0.55
800		0.92	0.54		0.66	0.31		0.79	0.65		0.70	0.37
850	0.93	0.83	0.51	0.86	0.60	0.26	0.73	0.77	0.60	0.87	0.61	0.03
900	0.89	0.74	0.46	0.80	0.54	0.14	0.71	0.73	0.48	0.80	0.51	
950	0.78	0.65	0.37	0.74	0.47	0.00	0.68	0.68	0.29	0.73	0.38	
1000	0.70	0.55	0.27	0.67	0.38		0.65	0.61	0.03	0.65	0.23	
1050	0.62	0.46	0.13	0.60	0.28		0.61	0.52		0.58	0.06	
1100	0.54	0.36	0.00	0.50	0.16		0.56	0.42		0.50		
1150	0.45	0.26		0.39	0.03		0.50	0.31		0.42		
1200	0.37	0.15		0.32			0.44	0.18		0.33		
1250	0.29	0.05		0.25			0.37	0.03		0.24		
1300	0.20			0.17			0.30			0.15		
1350	0.12			0.09			0.22			0.06		
1400	0.03						0.13					
1450							0.03					

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

Performance Data

AIR FLOW PERFORMANCE TWE042P13,0B,FB												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
900			0.75			0.57						0.58
950			0.67		0.77	0.48			0.72		0.78	0.48
1000		0.79	0.60		0.72	0.38		0.80	0.64		0.72	0.37
1050		0.74	0.52		0.66	0.24		0.75	0.56		0.66	0.25
1100		0.67	0.44	0.77	0.60	0.00	0.85	0.69	0.48	0.82	0.59	0.00
1150	0.76	0.61	0.35	0.72	0.53		0.80	0.62	0.38	0.76	0.52	
1200	0.71	0.55	0.26	0.66	0.45		0.74	0.56	0.28	0.70	0.45	
1300	0.60	0.42	0.00	0.54	0.24		0.63	0.43	0.03	0.58	0.29	
1400	0.48	0.29		0.41			0.52	0.30		0.46	0.04	
1500	0.34	0.14		0.28			0.39	0.15		0.34		
1600	0.21			0.15			0.27			0.20		
1700	0.00			0.00			0.13			0.04		

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

SEE AIR FLOW RESISTANCE TABLE FOR PRESSURE LOSS WITH SUPPLEMENTARY HEATERS.

AIR FLOW PERFORMANCE TWE048,060P13,0B,FB												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
1100					0.77	0.64						0.65
1200		0.77	0.66		0.64	0.44		0.83	0.73		0.71	0.45
1300	0.85	0.65	0.51	0.82	0.51	0.16		0.72	0.58		0.53	0.00
1400	0.75	0.52	0.34	0.71	0.33		0.83	0.60	0.40		0.28	
1500	0.65	0.38	0.10	0.60	0.00		0.74	0.46	0.00	0.71		
1600	0.54	0.22		0.48			0.64	0.28		0.60		
1700	0.43	0.00		0.36			0.54	0.02		0.48		
1800	0.31			0.23			0.43			0.36		
1900	0.19			0.08			0.21			0.23		
2000	0.05						0.08			0.09		
2100												

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

SEE AIR FLOW RESISTANCE TABLE FOR PRESSURE LOSS WITH SUPPLEMENTARY HEATERS.

Performance Data

AIR FLOW PERFORMANCE 2TEP3F48B1000B
Wet Coil, No Heaters

	EXTERNAL STATIC PRESSURE (INCHES OF WATER)											
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
900						0.85			0.95			0.85
1000			0.89		0.88	0.77			0.93		0.88	0.77
1100		0.92	0.82		0.82	0.66			0.88		0.82	0.66
1200		0.85	0.72	0.89	0.72	0.52		0.91	0.79		0.72	0.52
1300	0.90	0.75	0.60	0.80	0.60	0.36	0.95	0.82	0.66	0.80	0.60	0.36
1400	0.81	0.64	0.45	0.69	0.45	0.18	0.88	0.70	0.49	0.69	0.45	0.18
1500	0.70	0.49	0.27	0.56	0.27		0.77	0.55	0.28	0.56	0.27	
1600	0.57	0.33	0.07	0.41	0.06		0.65	0.37	0.03	0.41	0.06	
1700	0.43	0.14		0.23			0.50	0.16		0.23		
1800	0.26			0.04			0.32					
1900	0.08						0.12					

Vertical: With filter, no horizontal drip tray
Small apex baffle
Subtract 0.06" W.G. for downflow

Horizontal: As shipped except without filter
Subtract 0.05" W.G. for horizontal left

From Drawing A801225

AIR FLOW PERFORMANCE TWE063P13,0B,FB

	EXTERNAL STATIC PRESSURE (INCHES OF WATER)											
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
1400						0.61						0.66
1500			0.75		0.74	0.39					0.82	0.44
1600		0.77	0.58		0.58	0.00			0.69		0.67	0.00
1700	0.83	0.66	0.38	0.73	0.40			0.78	0.47		0.49	
1800	0.72	0.53	0.13	0.60	0.20		0.85	0.63	0.00	0.74	0.00	
1900	0.61	0.38		0.46			0.74	0.48		0.60		
2000	0.50	0.20		0.30			0.62	0.29		0.43		
2100	0.37			0.12			0.49			0.17		
2200	0.22						0.36					
2300	0.02						0.17					

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

SEE AIR FLOW RESISTANCE TABLE FOR PRESSURE LOSS WITH SUPPLEMENTARY HEATERS.

Performance Data

AIR FLOW PERFORMANCE 2TEP3F63B1000B Wet Coil, No Heaters												
EXTERNAL STATIC PRESSURE (INCHES OF WATER)												
	VERTICAL (See Notes)						HORIZONTAL (See Notes)					
	230 VOLTS			208 VOLTS			230 VOLTS			208 VOLTS		
CFM	HI	MED	LO	HI	MED	LO	HI	MED	LO	HI	MED	LO
800												0.90
900												0.92
1000						0.89			0.94			0.88
1100						0.82			0.92		0.85	0.77
1200			0.90		0.90	0.70			0.85		0.82	0.59
1300		0.91	0.82		0.81	0.54		0.83	0.73		0.75	0.35
1400		0.85	0.69		0.69	0.34		0.77	0.54	0.96	0.61	0.04
1500		0.76	0.53		0.52	0.09		0.67	0.30	0.89	0.43	
1600		0.63	0.34	0.90	0.32		0.88	0.52		0.79	0.19	
1700	0.85	0.47	0.10	0.78	0.07		0.77	0.34		0.67		
1800	0.74	0.28		0.65			0.65	0.11		0.52		
1900	0.61	0.05		0.51			0.51			0.35		
2000	0.46			0.35			0.35			0.16		
2100	0.31			0.18			0.17					
2200	0.15											
Vertical: With filter, no horizontal drip tray Small apex baffle Subtract 0.06" W.G. for downflow							Horizontal: As shipped except without filter Subtract 0.05" W.G. for horizontal left					

From Drawing A8012256

PRESSURE DROP FOR ELECTRIC HEATERS IN AIR HANDLER MODELS

	NUMBER OF RACKS				
	1	2	3	4	5
AIRFLOW CFM	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	* = 1 or 3
TWE018-P	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	—	—	—	
TWE024-P	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	—	—	
TWE030-P	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	—	—	
TWE036-P	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	—	
TWE042-P	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	—	
TWE048-60-P	Vertical	A/C or Elec. Furnace	L	L	L	L	L	L	
	Upflow	Heat Pump	L	L	L	L	H	H	
	Vertical	A/C or Elec. Furnace	L	L	L	L	L	L	
	Downflow	Heat Pump	L	L	L	H	H	H	
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L	
	Left	Heat Pump	L	L	L	H	H	H	
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L	
	Right	Heat Pump	L	L	L	L	H	H	

Performance Data

Air Handler/Minimum 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 * = 1 or 3 24.96KW
2TEP3F48B	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	N/A	
	Downflow	Heat Pump		L	L	L	N/A	
	Horizontal	A/C or Elec. Furnace		L	L	L	L	
	Left	Heat Pump		L	L	L	L	
	Horizontal	A/C or Elec. Furnace		L	L	L	L	
	Right	Heat Pump		L	L	L	L	
TWE063-P	Vertical	A/C or Elec. Furnace	L	L	L	L	L	L
	Upflow	Heat Pump	L	L	L	L	H	H
	Vertical	A/C or Elec. Furnace	L	L	L	L	L	L
	Downflow	Heat Pump	L	L	L	M	H	H
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L
	Left	Heat Pump	L	L	L	M	H	H
	Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L
	Right	Heat Pump	L	L	L	M	H	H
2TEP3F63B	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	N/A	
	Downflow	Heat Pump		L	L	M	N/A	
	Horizontal	A/C or Elec. Furnace		L	L	L	L	
	Left	Heat Pump		L	L	M	M	
	Horizontal	A/C or Elec. Furnace		L	L	L	L	
	Right	Heat Pump		L	L	M	L	

Electrical Data

TWE018P 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			
NONE	1/1	N/A	N/A	N/A	1.8	15	N/A	N/A	N/A	1.8	15
BAYHTR1405 +++	1/1	4.80	16400	20	27	30	3.60	12300	17.3	23	25
BAYHTR1408 +++	1/1	7.68	26200	32	42	45	5.76	19700	27.7	36	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, 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

TWE024P 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			
NONE	1/1	N/A	N/A	N/A	2.1	15	N/A	N/A	N/A	2.1	15
BAYHTR1405 +++	1/1	4.80	16400	20	27	30	3.60	12300	17.3	24	25
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
BAYHTR1415 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	15.36	52400	64	89	90	11.53	39300	55.4	78	80

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.

TWE030P 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			
NONE	1/1	N/A	N/A	N/A	2.6	15	N/A	N/A	N/A	2.6	15
BAYHTR1405 +++	1/1	4.80	16400	20	28	30	3.60	12300	17.3	24	25
BAYHTR1408 +++	1/1	7.68	26200	32	43	45	5.76	19700	27.7	37	40
BAYHTR1410 +++	1/1	9.60	32800	40	53	60	7.20	24600	34.6	46	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	53*/30	60*/30	11.53	39300	34.6/20.8	46*/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
BAYHTR3415 000	1/3	15.36	52400	38.2	50	50	11.53	39300	33.1	44	45

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, PDC 000 = pigtails, BRK = 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.

TWE036P 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			
NONE	1/1	N/A	N/A	N/A	2.8	15	N/A	N/A	N/A	2.8	15
BAYHTR1405 +++	1/1	4.80	16400	20	28	30	3.60	12300	17.3	24	25
BAYHTR1408 +++	1/1	7.68	26200	32	43	45	5.76	19700	27.7	37	40
BAYHTR1410 +++	1/1	9.60	32800	40	53	60	7.20	24600	34.6	46	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	53*/30	60*/30	11.53	39300	34.6/20.8	46*/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
BAYHTR3415 000	1/3	15.36	52400	38.2	50	50	11.53	39300	33.1	44	45
BAYHTR1419 BRK	2/1	19.2	65500	32/48	43*/60	45*/60	14.42	49200	27.7/41.6	37*/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, 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

TWE042P 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			
NONE	1/1	N/A	N/A	N/A	4.1	15	N/A	N/A	N/A	4.1	15
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
BAYHTR1410 +++	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
BAYHTR1415 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	15.36	52400	64	89	90	11.53	39300	55.4	78	80
BAYHTR3415 000	1/3	15.36	52400	38.2	51	60	11.53	39300	33.1	45	45
BAYHTR1419 BRK	2/1	19.2	65500	32/48	44*/60	45*/60	14.42	49200	27.7/41.6	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.

TWE048-060P 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	4.1	15	N/A	N/A	N/A	4.1	15
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
BAYHTR1410 +++	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
BAYHTR1415 BRK with Single Circuit Power Source Kit BAYSPEK140A	1/1	15.36	52400	64	89	90	11.53	39300	55.4	78	80
BAYHTR3415 000	1/3	15.36	52400	38.2	51	60	11.53	39300	33.1	45	45
BAYHTR1419 BRK	2/1	19.2	65500	32/48	44*/60	45*/60	14.42	49200	27.7/41.6	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
BAYHTR1425 BRK	3/1	24.96	85200	44/40/20	55/54*/25	60/60*/25	18.73	63900	38.1/34.6/17.3	48/47*/22	50/50*/25

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.

2TEP3F48B1000B 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
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.

Electrical Data

TWE063P 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	4.9	15	N/A	N/A	N/A	4.9	15
BAYHTR1405 +++	1/1	4.80	16400	20	30	30	3.60	12300	17.3	27	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
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	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
BAYHTR3415 000	1/3	15.36	52400	38.2	52	60	11.53	39300	33.1	45	45
BAYHTR1419 BRK	2/1	19.2	65500	32/48	45*/60	45*/60	14.42	49200	27.7/41.6	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
BAYHTR1425 BRK	3/1	24.96	85200	44/40/20	55/55*/25	60/60*/25	18.73	63900	38.1/34.6/17.3	48/48*/22	50/50*/25

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.

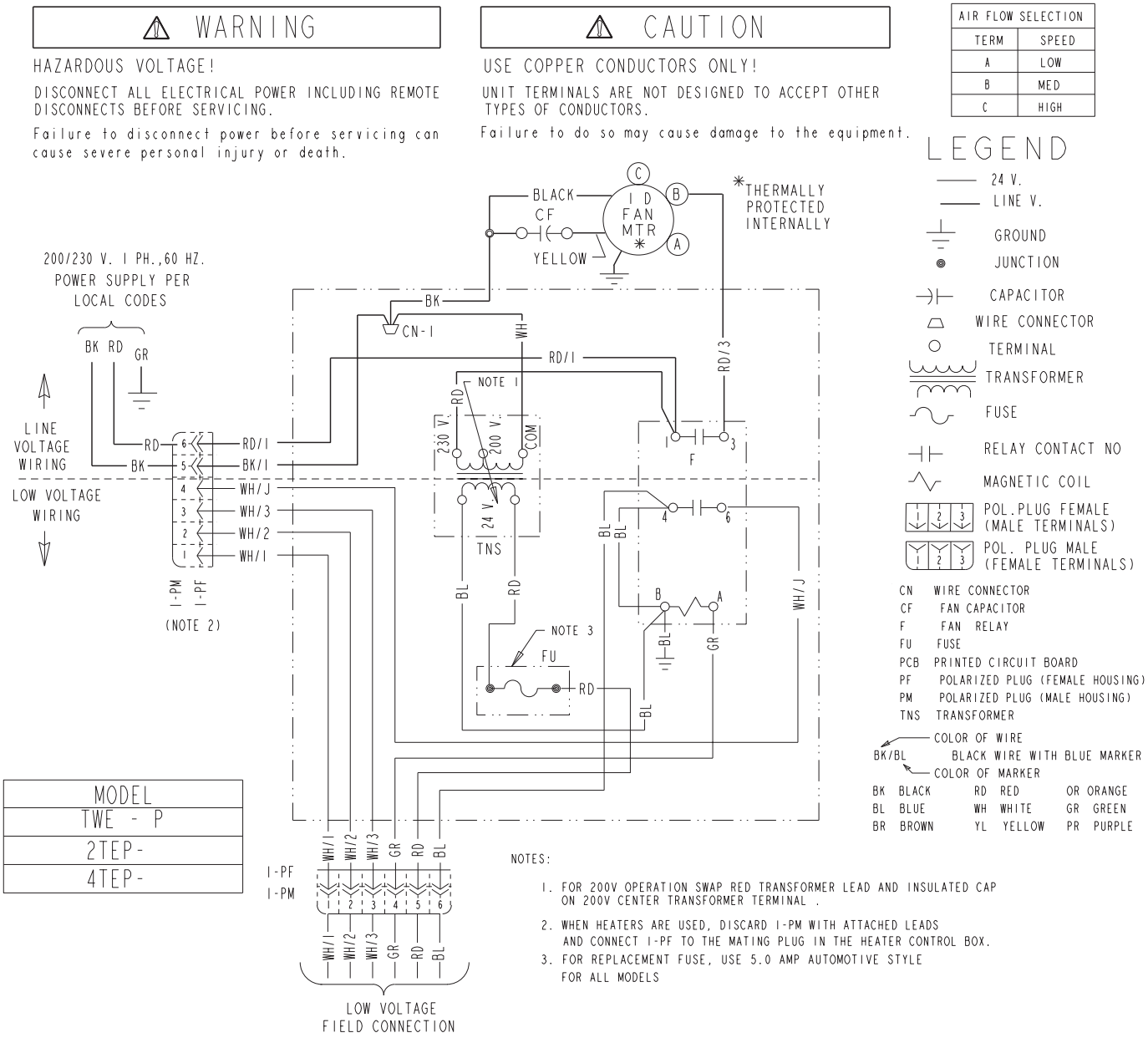
2TEP3F63B1000B WIRING DATA
(Indoor Blower Motor Powered from Heater Circuit*)

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
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

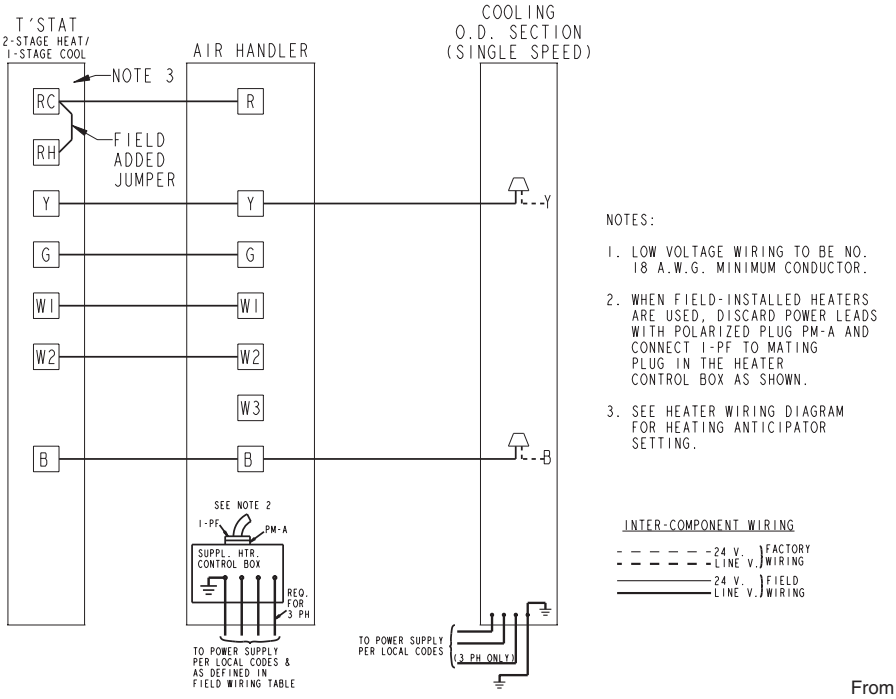
Unit Wiring Diagram



From Dwg. C800722P01 Rev. 4

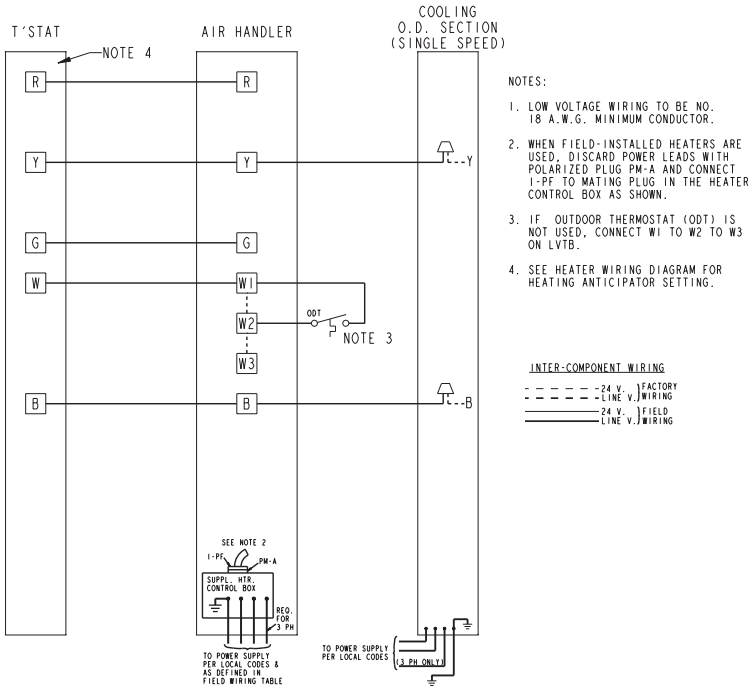
Field Wiring

Air Handler with Single Speed Cooling Unit, 2 Stage Heat



From Dwg. 21B801081 Rev. 1

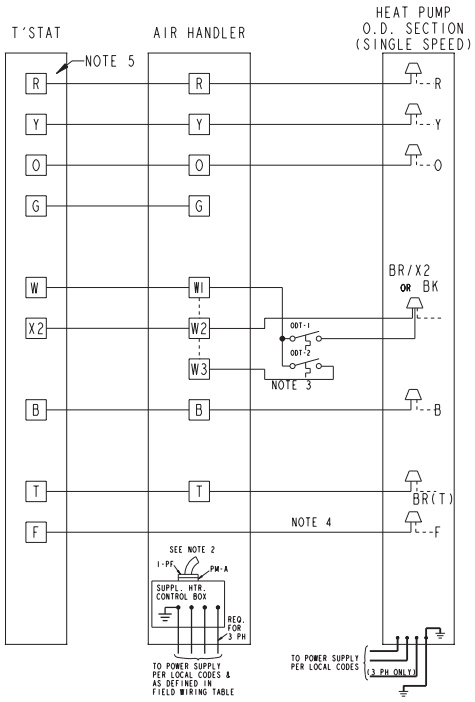
Air Handlers with Single Speed Cooling Unit, 1 Stage Heat



From Dwg. 21B801083 Rev. 1

Field Wiring

Field Wiring Diagrams for Air Handlers with Heat Pump



NOTES:

1. LOW VOLTAGE WIRING TO BE NO. 18 A.W.G. MINIMUM CONDUCTORS.
2. WHEN FIELD-INSTALLED HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG 1-PM 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. CONNECT IN THIS MANNER IF O.D. UNIT HAS "F" CONNECTION.
5. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTINGS.

INTER-COMPONENT WIRING

- - - - - - 24 V.) FACTORY WIRING
- - - - - - LINE V.)
——— 24 V.) FIELD WIRING
——— LINE V.)

From Dwg. 21B801082 Rev. 1

Air Handler Subbase

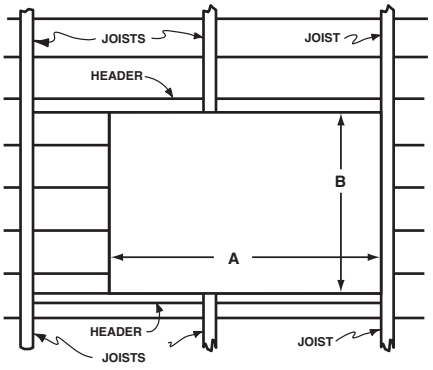


FIG. 2

FLOOR OPENING - SIZE		
MODEL NO.	A	B
TAYBASE100	23-3/4	14-13/16
TAYBASE101	21-3/4	14-13/16
TAYBASE102	26-3/4	14-13/16

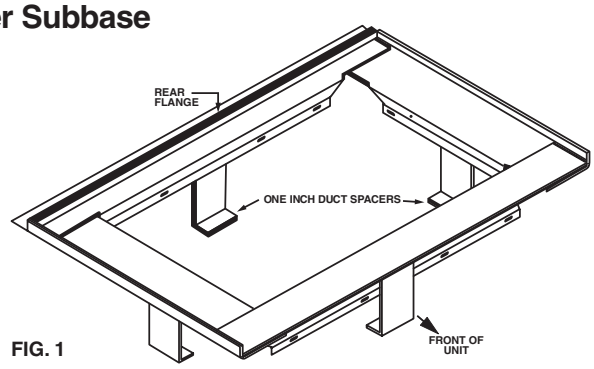


FIG. 1

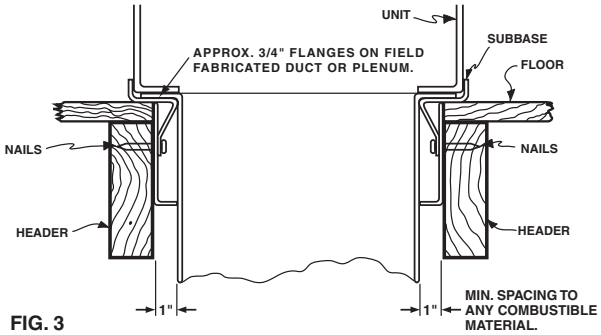


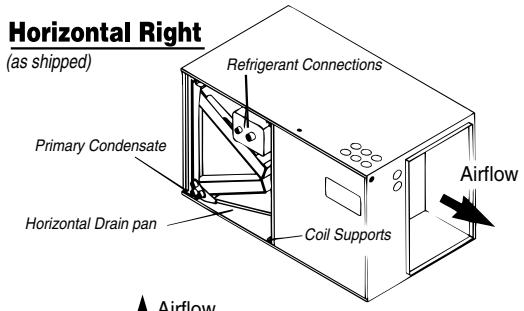
FIG. 3

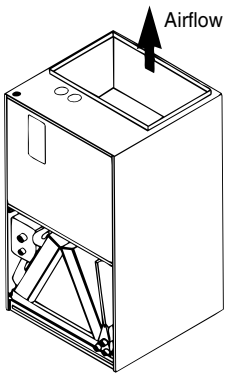
TWE018-063P, 2TEP3F48-63B Convertibility

Six (6) Way Convertibility

One Unit - 4 Applications
(Conversions 1-4)

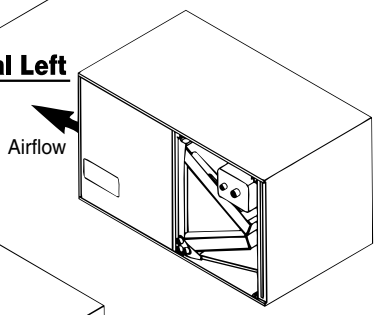
Horizontal Right
(as shipped)

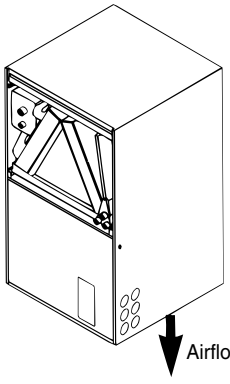




Vertical Upflow
(as shipped)
One-step Conversion
Stand unit on end

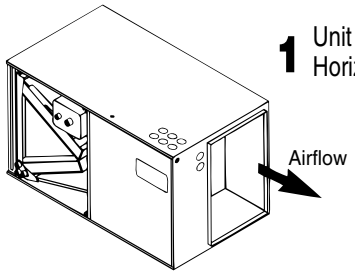
Horizontal Left
Rotate Coil



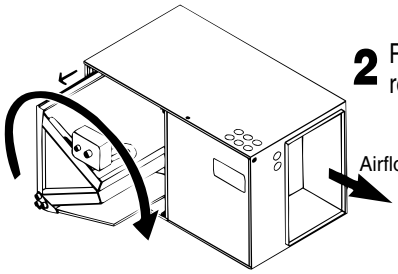


Vertical Downflow
One-step Conversion
from Horizontal left

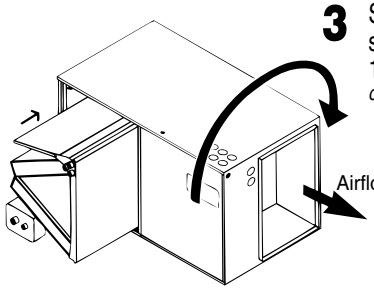
Easy Conversion to Opposite Side Access
(Conversions 5 & 6)



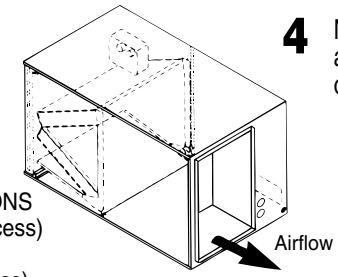
1 Unit is shipped as Horizontal right



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)*

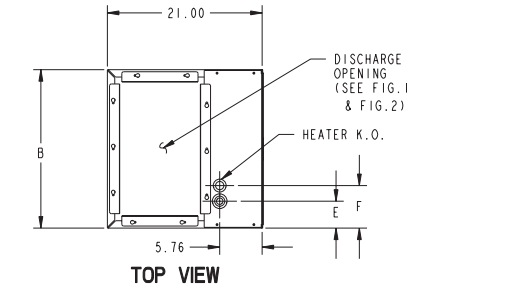


4 Note connections and access are now on back side of unit

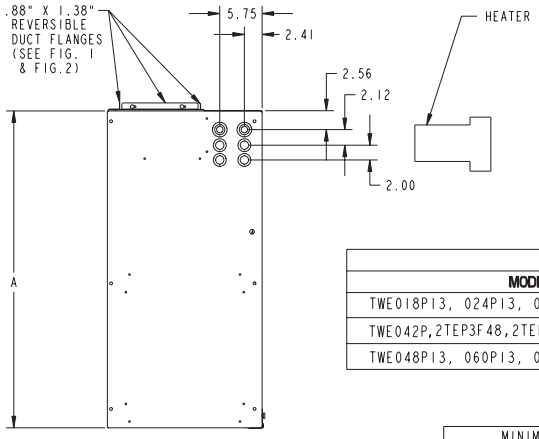
6 CONVERSION APPLICATIONS
1. Horizontal Right - (Front Access)
2. Vertical Upflow
3. Horizontal Left - (Front Access)
4. Vertical Downflow
5. Horizontal Right - (Rear Access)
6. Horizontal Left - (Rear Access)

Dimensions

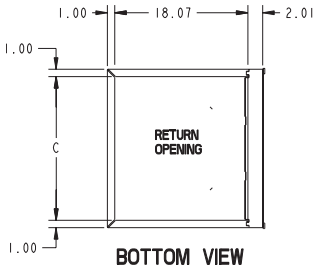
Outline Drawing for TWE018-063P, 2TEP3F48-63B



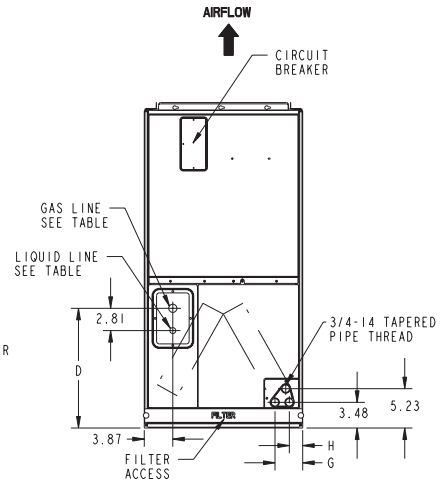
TOP VIEW



SIDE VIEW



BOTTOM VIEW



VERTICAL UPFLOW

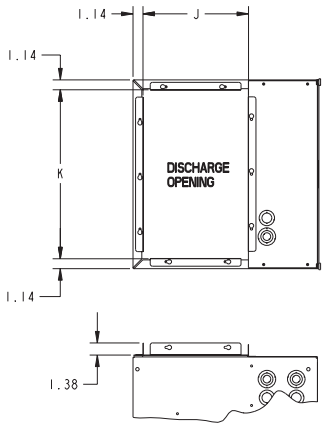


FIG. 1

MODEL NO.	FIG. 1 J	FIG. 1 K	FIG. 2 J	FIG. 2 K
TWE018P13, 024P13, 030P13, 036P13	12.02	19.22	11.02	18.22
TWE042P,2TEP3F48,2TEP3F63		21.22		20.22
TWE048P13, 060P13, 063P13		23.72		22.72

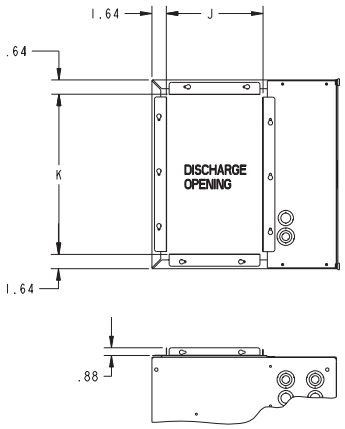


FIG. 2

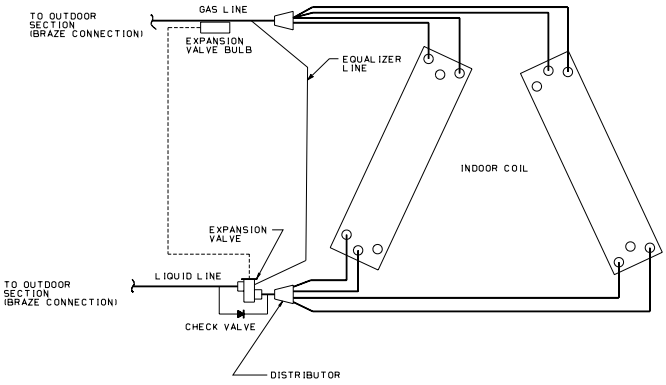
MINIMUM UNIT CLEARANCE TABLE		
	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"*
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	1"
OUTLET DUCT	1"*	
* 1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED EXCEPT MODELS BAYHTR1405, 1408, AND 1410 ARE APPROVED FOR 0" PLENUM AND DUCT CLEARANCE IN THE UPFLOW CONFIGURATION ONLY ON TWE-P MODELS.		

From Dwg. 21D800666 Rev. 6

MODEL NO.	A	B	C	D	E	F	G	H	FLOW CONTROL	GAS LINE BRAZE	LIQ. LINE BRAZE
TWE018P13	43	21.50	19.50	15.57	3.65	5.77	3.62	1.89	TXV/NB	5/8	1/4
TWE024P13, 030P13,										3/4	5/16
TWE036P13	45	21.50	19.50	17.57	3.65	5.77				7/8	3/8
TWE042P13	51.75	23.50	21.50	18.33	4.65	6.77	3.62	1.89			
TWE048P13,060P13	57.90	26	24	27.12	5.90	8.02	3.21	1.48		1-1/8	
TWE063P13	62.75										
2TEP3F48, 2TEP3F63	57.90	23.50	21.50	30.47	4.65	6.77	3.62	1.89			

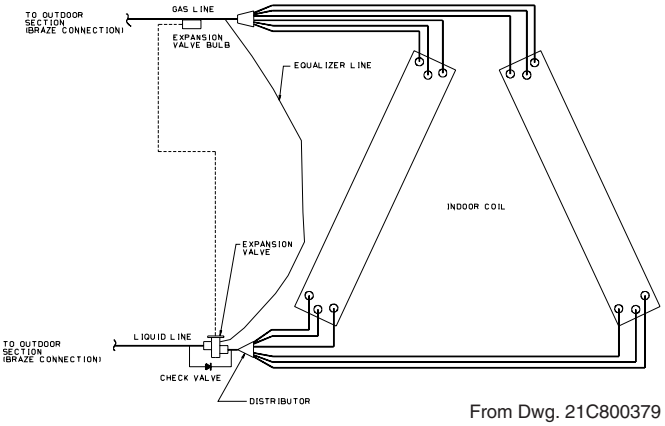
Refrigerant Circuit Diagrams

TWE018-30P



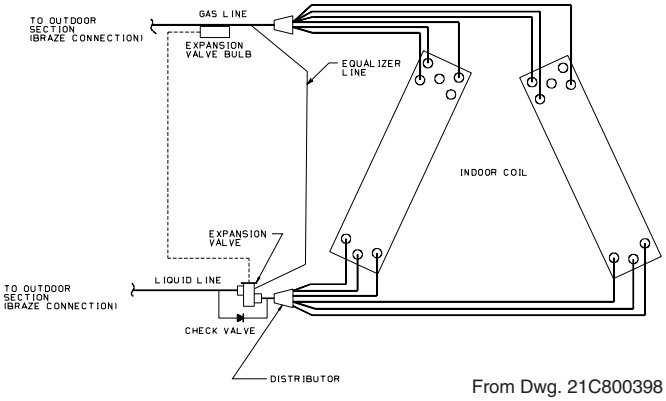
From Dwg. 21C800569 Rev. 0

TWE036P



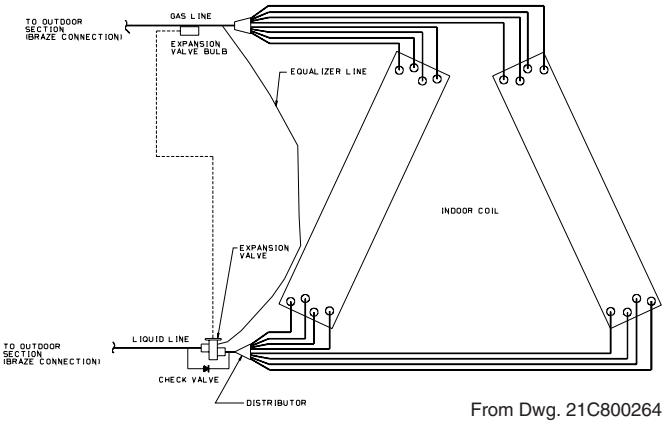
From Dwg. 21C800379

TWE042P



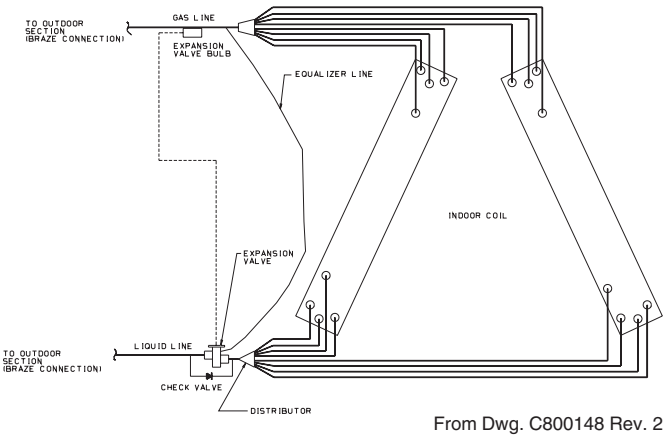
From Dwg. 21C800398

TWE048-63P



From Dwg. 21C800264

2TEP3F48-63B



From Dwg. C800148 Rev. 2

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 TWE-P 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 TWE-P units have a single refrigerant circuit. TWE018-063P 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. TWE 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.

Literature Order Number	TWE-D-3	P.I.
File Number	PL-UN-S/SC-TWE-D-3-7-04	
Supersedes	PL-UN-S/SC-TWE-D-2-3-01	
Stocking Location	PI Louisville	

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