



# Insight™ Ducted Air Handler Product Data

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## Cooling Only Split System Air Conditioning

30 to 50 MBh - 50 Hz



### Air Handler Models

TWE030C  
TWE040C  
TWE050C

### Condensing Models

TTB520-536C  
TTA030-060C

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**TWE5-PRC002-EN-09-11-01**



# Features and Benefits



TWE

## Features

- Ships horizontal
- Six way convertibility - horizontal (left and right), upflow, downflow (front and rear access)
- Electrical, refrigerant, condensate and blower access convertible to either side
- Corrosion resistant galvanized steel with attractive finish
- Internally enhanced finned coil tubes
- Direct drive motor
- Standard filters
- Multi-speed blower
- 220 volt primary and 24 volt secondary transformer
- Insulated cabinet
- External access to heater circuit breakers
- Start kits are not required
- Built-in indoor fan delay function for increased efficiency. No kit required.

## Air Handling Units

### New Features

- Improved filter access and latch - Eliminate current T-bar and shipping bracket.
- Provision for 1-1/8 inches thick field supplied electrostatic filter
- Reversible Duct Flanges - Fits up to 1-1/2 inches duct board
- Improve controls access with control box mounted next to blower.
- 40 VA transformer with 5 amp automotive style fuse on 3 tons and less
- 5 Amp automotive style fuse replaces Bussman "red cap" fuse on 3.5 to 5 ton models
- Blower mounting brackets improved - Front access to screw with power driver
- Improved bottom carton cushioning
- 1 inch thick foil faced insulation for all models



TTB



TTA

## Condensing Units

### Features:

- Vertical Air Discharge
- High Efficiency TRANE Climatuff® Compressor
- Powder Paint finish
- Brazed or flare connections

### Benefits:

- Flexibility in application
- Quality and reliability
- Uniform covering for a smooth, attractive and corrosion-resistant finish

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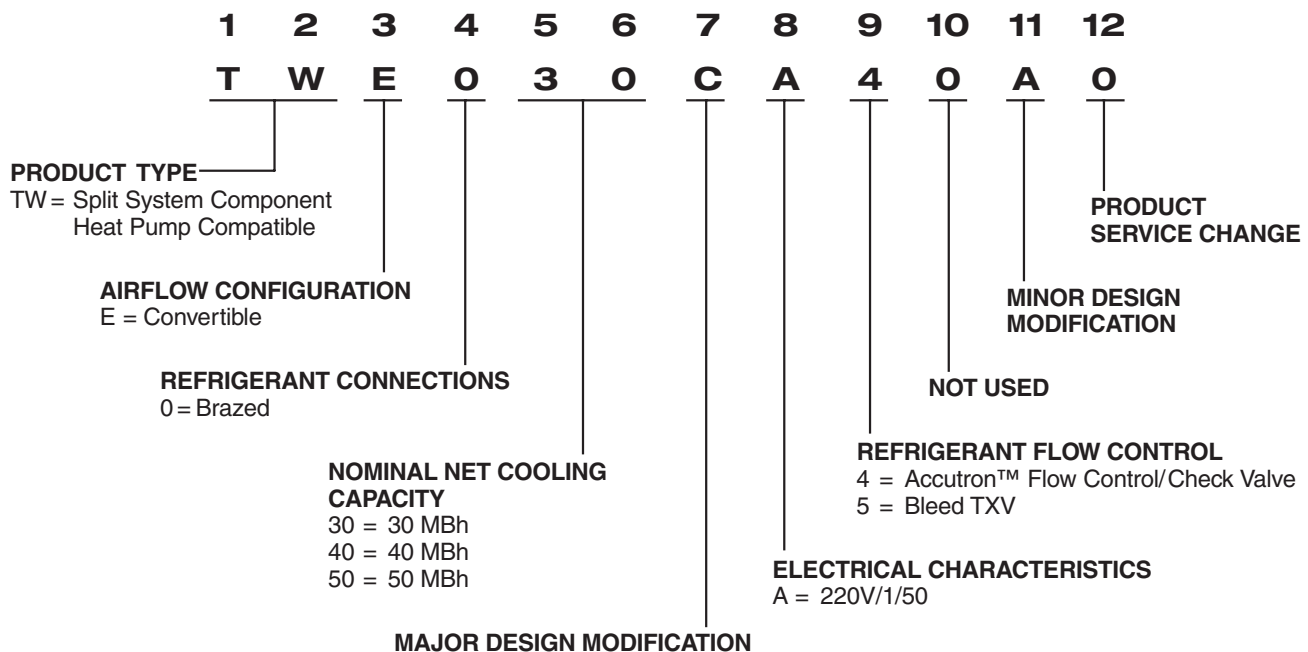


# System Performance

Outdoor Unit	Indoor Unit	CFM	Cooling Capacity 95° F (35° C)		
			CMH	MBh	Kw
Ducted Air Handlers					
TTB520CA00A	TWE030CA40A	700	1185	20	6
TTB524CA00A	TWE030CA40A	900	1520	27	8
TTB530CA00A	TWE030CA40A	1000	1690	29	8
TTB530CA00A	TWE040CA40A	1100	1860	31	9
TTB536CA00A	TWE030CA40A	1100	1860	35	10
TTB536CA00A	TWE040CA40A	1300	2200	37	11
TTA030CD00A	TWE030CA40A	1000	1690	31	9
TTA030CD00A	TWE040CA40A	1100	1860	33	9.5
TTA040CD00A	TWE040CA40A	1325	2200	41	12
TTA040CD00A	TWE050CA50A	1600	2700	44	12.5
TTA050CD00A	TWE050CA50A	1800	3040	53	15
TTA060CD00A	TWE050CA50A	1800	3040	63	18

# Selection Procedure

## Model Number Nomenclature



# General Data

## TWE

### TWE Product Specifications

Model	TWE030CA40B	TWE040CA40C	TWE050CA50D
<b>Power Conn.— Volts/Ph/Hz</b>	220/1/50	220/1/50	220/1/50
<b>Indoor Coil - Type</b>	Plate Fin	Plate Fin	Plate Fin
Rows	3	3	3
Fins per inch (Fins per 25.4 mm)	14	14	14
Face Area sq ft (sq m)	3.21 (.30)	5.04 (.47)	6.19 (.58)
Tube Size in. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Refrigerant Control	FCCV	FCCV	FCCV
Drain Conn. Size in. (mm)	3/4 NPT	3/4 NPT	3/4 NPT
Duct Connections	See Outline Drawing	See Outline Drawing	See Outline Drawing
<b>Indoor Fan - Type</b>	Centrifugal	Centrifugal	Centrifugal
No. Used	1	1	1
Diameter in. (mm)	10.0 (254.0)	10.0 (254.0)	11.0 (279.4)
Width in. (mm)	8.0 (203.2)	10.0 (254.0)	10.0 (254.0)
Type Drive - No. Speeds	Direct - 3	Direct - 3	Direct - 3
Airflow (High)			
CFM @ 0.0 in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
CMH @ 0.0 Pa	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
No. Motors - HP	1 - 1/3	1 - 1/3	1 - 3/4
Motor RPM	1000	900	900
Volts/Ph/Hz	220/1/50	220/1/50	220/1/50
F.L. Amps	2.6	2.1	4.5
L.R. Amps	3.3	4.2	10.1
<b>Filters</b>			
Vertical Applications			
Filter Furnished	Yes	Yes	Yes
Type Furnished	Throwaway	Throwaway	High Velocity
No.-Size-Thickness	1 - 20 x 20 - 1	1 - 20 x 20 - 1	1 - 22 x 20 - 1
Horizontal Applications			
Filter Furnished	No	No	No
Type Recommended	See Note Below	See Note Below	See Note Below
No.-Size-Thickness	See Note Below	See Note Below	See Note Below
<b>Refrigerant Line Size</b>			
Line Size ID Gas in. (mm)	7/8 (22.23)	1-1/8 (28.56)	1-1/8 (28.56)
Line Size ID Liquid in. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
<b>Dimensions (H x W x D)</b>			
Crated - in.	44.5 x 24.0 x 23.5	53.25 x 26.0 x 23.5	59.5 x 26.0 x 23.5
- (mm)	(1130 x 610 x 597)	(1353 x 660 x 597)	(1511 x 660 x 597)
Uncrated - in.	43.0 x 21.5 x 21.0	52.0 x 23.5 x 21.0	58.0 x 23.5 x 21.0
- (mm)	(1092 x 546 x 533)	(1321 x 597x 533)	(1473 x 597 x 533)
<b>Weight lbs. (kg)</b>			
Shipping	125 (56.7)	165 (74.8)	198 (898)
Net	115 (52.2)	150 (68.0)	183 (83.0)

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

Low Velocity Filter: Face Area (sq ft) = CFM/300

High Velocity Filter: Face Area (sq ft) = CFM/500



# General Data

# TTB

## TTB Product Specifications <sup>①②</sup>

Model	TTB520CA00B0	TTB524CA00B0	TTB530CA00B0	TTB536CA00A0
<b>Power Conn. - Volts/Ph/Hz</b>	200/230/1/50	200/230/1/50	200/230/1/50	200/230/01/50
Fuse Size - max. amps	PER LOCAL CODES	PER LOCAL CODES	PER LOCAL CODES	PER LOCAL CODES
<b>Compressor - Type</b>	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®
No. Used	1	1	1	1
Volts/Ph/Hz	200/230/1/50	200/230/1/50	200/230/1/50	200/230/1/50
F.L. Amps - L.R. Amps	9.6 - 66	12.2 - 75	12.7 - 78	18.0 - 123
<b>Outdoor Fan - Type</b>	PROPELLER	PROPELLER	PROPELLER	PROPELLER
Diameter in. (mm)	13.7 (348)	18 (457)	18 (457)	18 (457)
No. Used	1	1	1	1
Type Drive - No. Speeds	DIRECT - 1	DIRECT - 1	DIRECT - 1	DIRECT - 1
CFM @ 0.0 in. w.g. <sup>③</sup>	1300	2050	2350	2350
(M) 3/HR. @ 0.0 mm w.g. <sup>③</sup>	602	971	1105	1105
No. Motors - HP	1 - 1/8	1 - 1/6	1 - 1/6	1 - 1/6
Motor Speed (RPM)	1620	1100	1100	1100
Volts/Ph/Hz	200/230/1/50	200/230/1/50	200/230/1/50	200/230/1/50
F.L. Amps	1.1	1.30	1.30	1.30
<b>Outdoor Coil - Type</b>	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
No. Rows	1	1	1	1
Fins/in. (mm)	24 (.945)	24 (.945)	24 (.945)	24 (.945)
Face Area sq ft (sq m)	6.62 (.615)	10.96 (1.02)	14.93 (1.39)	14.93 (1.39)
Tube Size in. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
<b>Refrigerant</b>				
R-22 (O.D. Unit) <sup>④</sup> - lbs. (kg)	3-LBS., 6-OZ. (110)	4-LBS., 2-OZ. (110)	5-LBS., 13-OZ. (110)	6 LBS., 1 OZ. (110)
Factory Supplied	NOM.	NOM.	NOM.	NOM.
Line Size - OD Gas <sup>⑤</sup> in. (mm)	3/4 (0.053)	3/4 (0.061)	3/4 (0.065)	3/4 (0.071)
Line Size - OD Liq. <sup>⑤</sup> in. (mm)	5/16 (1.35)	5/16 (1.55)	5/16 (1.65)	5/16 (1.80)
<b>Dimensions (H x W x D)</b>				
Crated - in.	24-3/4 X 20 X 20	27-3/8 X 26-7/8 X 26-7/8	34-3/8 X 26-7/8 X 26-7/8	34-3/8 X 26-7/8 X 26-7/8
- (mm)	(629 X 508 X 508)	(695 X 683 X 683)	(873 X 683 X 683)	873 X 683 X 683
Uncrated	SEE OUTLINE DRAWINGS	SEE OUTLINE DRAWINGS	SEE OUTLINE DRAWINGS	SEE OUTLINE DRAWINGS
<b>Weight lbs. (kg)</b>				
Shipping	121 (54.9)	180 (81.6)	188 (85.3)	207 (93.9)
Net	117 (53.1)	166 (75.3)	174 (78.9)	193 (87.5)

### NOTES:

① RATING CONDITIONS (COOLING): 80F (27C) D.B. 67F (20C) W.B. ENTERING AIR TO INDOOR COIL OF APPLICABLE TYPE.

95F (35C) D.B. ENTERING AIR TO OUTDOOR COIL.  
INDOOR COIL AND UNIT CONNECTED BY 25 FT. (7.62 METERS) TUBING.

② RATING CONDITIONS (HEATING): 70F (21C) D.B. ENTERING AIR TO INDOOR COIL; 47F (8C) D.B.

43F (6C) W.B. ENTERING AIR TO OUTDOOR COIL.  
NO SUPPLEMENTARY HEAT INCLUDED.

③ STANDARD AIR - DRY COIL - OUTDOOR

④ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTIONS.

⑤ MAX. OF 80 FT. (24.38 METERS) TOTAL MEASURED LENGTH INCLUDING 60 FT. (18.29 METERS) MAX. LIFT BETWEEN O.D. AND I.D. SECTIONS.

# General Data

**TTA**

## TTA Product Specifications <sup>①②</sup>

Model	TTA030CD00A0	TTA040CD00A0	TTA050CD00A0	TTA060CD00A0
<b>Power Conn. - Volts/Ph/Hz</b>	380/415/3/50	380/415/3/50	380/415/3/50	380/415/3/50
Fuse Size - max. amps	PER LOCAL CODES	PER LOCAL CODES	PER LOCAL CODES	PER LOCAL CODES
<b>Compressor - Type</b>	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®
No. Used	1	1	1	1
Volts/Ph/Hz	380/415/3/50	380/415/3/50	380/415/3/50	380/415/3/50
F.L. Amps - L.R. Amps	5.8 - 51	6.8 - 52	9.0 - 70	9.7 - 64
<b>Outdoor Fan - Type</b>	PROPELLER	PROPELLER	PROPELLER	PROPELLER
Diameter in. (mm)	18 (457)	18 (457)	22 (559)	26 (660)
No. Used	1	1	1	1
Type Drive - No. Speeds	DIRECT - 1	DIRECT - 1	DIRECT - 1	DIRECT - 1
CFM @ 0.0 in. w.g. <sup>③</sup>	1950	2000	2700	4550
(M) 3/HR. @ 0.0 mm w.g. <sup>③</sup>	920	935	1280	2154
No. Motors - HP	1 - 1/4	1 - 1/4	1 - 1/3	1 - 1/3
Motor Speed (RPM)	1075/900	1075/900	825/690	825/690
Volts/Ph/Hz	400/1/50	400/1/50	400/1/50	400/1/50
F.L. Amps	0.8	0.8	1.0	1.7
<b>Outdoor Coil - Type</b>	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
No. Rows	1	1	1	1
Fins/in. (mm)	24 (.945)	24 (.945)	24 (.945)	24 (.945)
Face Area sq ft (sq m)	12.22 (1.14)	16.84 (1.56)	25.50 (2.37)	35.39 (3.29)
Tube Size in. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
<b>Refrigerant</b>				
R-22 (O.D. Unit) <sup>④</sup> - lbs. (kg)	5 LBS., 12 OZ. (110)	7 LBS., 2 OZ. (110)	9 LBS., 2 OZ. (110)	13 LBS., 0 OZ. (110)
Factory Supplied	NOM.	NOM.	NOM.	NOM.
Line Size - OD Gas <sup>⑤</sup> in. (mm)	7/8 (0.065)	1 1/8 (0.075)	1-1/8 (0.083)	1-1/8 (0.086)
Line Size - OD Liq. <sup>⑤</sup> in. (mm)	3/8 (1.65)	3/8 (1.91)	3/8 (2.11)	3/8 (2.18)
<b>Dimensions (H x W x D)</b>				
Crated - in.	25 X 30 X 26-1/2	33-1/4 X 30 X 26-1/2	41-1/4 X 34-3/4 X 30-1/2	45-1/2 X 41 X 37
- (mm)	(635 X 762 X 673)	(845 X 762 X 673)	(1048 X 883 X 775)	1156 X 1041 X 940
Uncrated	SEE OUTLINE DRAWINGS	SEE OUTLINE DRAWINGS	SEE OUTLINE DRAWINGS	SEE OUTLINE DRAWINGS
<b>Weight lbs. (kg)</b>				
Shipping	190 (86.2)	211 (95.7)	254 (115)	333 (151)
Net	181 (82.1)	200 (90.7)	239 (108)	314 (142)

**NOTES:**

① RATING CONDITIONS (COOLING): 80F (27C) D.B. 67F (20C) W.B. ENTERING AIR TO INDOOR COIL OF APPLICABLE TYPE.

95F (35C) D.B. ENTERING AIR TO OUTDOOR COIL.  
INDOOR COIL AND UNIT CONNECTED BY 25 FT. (7.62 METERS) TUBING.

② RATING CONDITIONS (HEATING): 70F (21C) D.B. ENTERING AIR TO INDOOR COIL; 47F (8C) D.B.

43F (6C) W.B. ENTERING AIR TO OUTDOOR COIL.

NO SUPPLEMENTARY HEAT INCLUDED.

③ STANDARD AIR - DRY COIL - OUTDOOR

④ THIS VALUE APPROXIMATE. FOR MORE PRECISE VALUE SEE UNIT NAMEPLATE AND SERVICE INSTRUCTIONS.

⑤ MAX. OF 80 FT. (24.38 METERS) TOTAL MEASURED LENGTH INCLUDING 60 FT. (18.29 METERS) MAX. LIFT BETWEEN O.D. AND I.D. SECTIONS.



# Performance Data Cooling

## English Units

### TTB520CA-B WITH TWE030CA4 AT 700 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	18.4	15.6	16.9	18.2	18.8*	19.3*	1.41	47.2	
	63	19.9	13.1	14.4	15.7	17.0	18.2	1.45	51.1	
	67	21.3	10.4	11.7	12.9	14.2	15.5	1.50	55.3	
	71	22.8	7.6	8.9	10.1	11.4	12.7	1.55	59.5	
90	59	18.1	15.5	16.7	18.0	18.5*	19.0*	1.47	47.5	
	63	19.4	13.0	14.2	15.5	16.8	18.1	1.52	51.4	
	67	20.9	10.2	11.5	12.8	14.0	15.3	1.57	55.6	
	71	22.3	7.4	8.7	10.0	11.2	12.5	1.62	59.9	
95	59	17.7	15.3	16.6	17.8*	18.2*	18.6*	1.54	47.8	
	63	19.0	12.8	14.1	15.3	16.6	17.9	1.59	51.7	
	67	20.4	10.0	11.3	12.6	13.9	15.1	1.63	55.9	
	71	21.8	7.2	8.5	9.8	11.1	12.3	1.68	60.2	
100	59	17.2	15.1	16.4	17.4*	17.8*	18.2*	1.61	48.1	
	63	18.5	12.6	13.9	15.1	16.4	17.7	1.66	52.0	
	67	19.8	9.8	11.1	12.4	13.7	14.9	1.70	56.2	
	71	21.2	7.0	8.3	9.6	10.8	12.1	1.75	60.5	
105	59	16.8	14.9	16.2	17.0*	17.4*	17.8*	1.68	48.4	
	63	18.0	12.4	13.7	14.9	16.2	17.5	1.73	52.4	
	67	19.3	9.6	10.9	12.2	13.4	14.7	1.78	56.6	
	71	20.6	6.8	8.1	9.4	10.6	11.9	1.82	60.9	
115	59	15.8	14.5	15.8	16.2*	16.6*	17.0*	1.83	49.1	
	63	16.9	12.0	13.2	14.5	15.8	17.0*	1.87	53.1	
	67	18.1	9.2	10.5	11.8	13.0	14.3	1.92	57.3	
	71	19.4	6.4	7.7	8.9	10.2	11.5	1.96	61.6	
120	59	15.3	14.3	15.4*	15.8*	16.2*	16.6*	1.91	49.5	
	63	16.4	11.8	13.0	14.3	15.6	16.6*	1.95	53.4	
	67	17.6	9.0	10.3	11.5	12.8	14.1	1.99	57.7	
	71	18.7	6.2	7.5	8.7	10.0	11.3	2.03	62.0	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	625	825
TOTAL CAP.	X0.99	X1.02
SENS. CAP.	X0.95	X1.08
COMPR. KW	X0.99	X1.01
A.D.P.	-1.1	1.4

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 20500 BTUH**  
AIRFLOW = 725 CFM  
APP. DEW PT. = 56.2 DEG. F  
COMPRESSOR POWER = 1638 WATTS  
I.D. FAN POWER = 310 WATTS  
O.D. FAN POWER = 130 WATTS  
E.E.R. = 9.40 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 3/4 SUCT.  
AND 5/16 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

### TTB524CA-B WITH TWE030CA4 AT 900 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	23.8	19.5	21.1	22.6	24.0*	24.6*	1.79	46.3	
	63	25.6	16.5	18.0	19.6	21.1	22.7	1.84	50.2	
	67	27.5	13.1	14.6	16.2	17.8	19.3	1.90	54.4	
	71	29.4	9.6	11.2	12.8	14.3	15.9	1.95	58.6	
90	59	23.4	19.3	20.9	22.5	23.7*	24.2*	1.88	46.6	
	63	25.2	16.3	17.8	19.4	21.0	22.5	1.93	50.5	
	67	27.0	12.9	14.5	16.0	17.6	19.1	1.98	54.6	
	71	28.9	9.5	11.0	12.6	14.1	15.7	2.04	58.9	
95	59	23.0	19.2	20.7	22.3	23.3*	23.9*	1.96	46.8	
	63	24.7	16.1	17.7	19.2	20.8	22.3	2.02	50.7	
	67	26.5	12.7	14.3	15.8	17.4	19.0	2.07	54.9	
	71	28.4	9.3	10.8	12.4	14.0	15.5	2.12	59.2	
100	59	22.4	18.9	20.5	22.1	22.9*	23.4*	2.06	47.2	
	63	24.1	15.9	17.4	19.0	20.5	22.1	2.11	51.1	
	67	25.9	12.5	14.0	15.6	17.2	18.7	2.16	55.2	
	71	27.7	9.0	10.6	12.2	13.7	15.3	2.21	59.5	
105	59	21.9	18.7	20.3	21.8	22.5*	23.0*	2.16	47.5	
	63	23.5	15.6	17.2	18.8	20.3	21.9	2.20	51.4	
	67	25.2	12.2	13.8	15.4	16.9	18.5	2.25	55.6	
	71	26.9	8.8	10.4	11.9	13.5	15.0	2.30	59.9	
115	59	20.8	18.2	19.8	21.0*	21.5*	22.0*	2.36	48.1	
	63	22.3	15.2	16.7	18.3	19.8	21.4	2.40	52.1	
	67	23.9	11.8	13.3	14.9	16.4	18.0	2.44	56.3	
	71	25.5	8.3	9.9	11.4	13.0	14.6	2.48	60.6	
120	59	20.2	18.0	19.6	20.6*	21.1*	21.6*	2.46	48.4	
	63	21.7	14.9	16.5	18.0	19.6	21.2	2.50	52.4	
	67	23.3	11.5	13.1	14.7	16.2	17.8	2.53	56.6	
	71	24.8	8.1	9.6	11.2	12.8	14.3	2.57	60.9	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	800	1025
TOTAL CAP.	X0.99	X1.01
SENS. CAP.	X0.95	X1.06
COMPR. KW	X0.99	X1.01
A.D.P.	-1.2	1.2

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 26500 BTUH**  
AIRFLOW = 900 CFM  
APP. DEW PT. = 54.9 DEG. F  
COMPRESSOR POWER = 2068 WATTS  
I.D. FAN POWER = 400 WATTS  
O.D. FAN POWER = 165 WATTS  
E.E.R. = 9.50 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 3/4 SUCT.  
AND 5/16 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.



# Performance Data Cooling

## Metric Units

### TTB520CA-B WITH TWE030CA4 AT 1189 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	
			22.2	23.3	24.4	25.6	26.7		
29.4	15.0	5.4	4.6	5.0	5.3	5.5*	5.7*	1.4	
	17.2	5.8	3.8	4.2	4.6	5.0	5.3	1.5	
	19.4	6.2	3.0	3.4	3.8	4.2	4.5	1.5	
	21.7	6.7	2.2	2.6	3.0	3.3	3.7	1.5	
32.2	15.0	5.3	4.5	4.9	5.3	5.4*	5.6*	1.5	
	17.2	5.7	3.8	4.2	4.5	4.9	5.3	1.5	
	19.4	6.1	3.0	3.4	3.8	4.1	4.5	1.6	
	21.7	6.5	2.2	2.5	2.9	3.3	3.7	1.6	
35.0	15.0	5.2	4.5	4.9	5.2*	5.3*	5.4*	1.5	
	17.2	5.6	3.8	4.1	4.5	4.9	5.2	1.6	
	19.4	6.0	2.9	3.3	3.7	4.1	4.4	1.6	
	21.7	6.4	2.1	2.5	2.9	3.3	3.6	1.7	
37.8	15.0	5.0	4.4	4.8	5.1*	5.2*	5.3*	1.6	
	17.2	5.4	3.7	4.1	4.4	4.8	5.2	1.7	
	19.4	5.8	2.9	3.3	3.6	4.0	4.4	1.7	
	21.7	6.2	2.1	2.4	2.8	3.2	3.5	1.8	
40.6	15.0	4.9	4.4	4.7	5.0*	5.1*	5.2*	1.7	
	17.2	5.3	3.6	4.0	4.4	4.7	5.1	1.7	
	19.4	5.7	2.8	3.2	3.6	3.9	4.3	1.8	
	21.7	6.0	2.0	2.4	2.8	3.1	3.5	1.8	
46.1	15.0	4.6	4.2	4.6	4.7*	4.9*	5.0*	1.8	
	17.2	5.0	3.5	3.9	4.2	4.6	5.0*	1.9	
	19.4	5.3	2.7	3.1	3.5	3.8	4.2	1.9	
	21.7	5.7	1.9	2.3	2.6	3.0	3.4	2.0	
48.9	15.0	4.5	4.2	4.5*	4.6*	4.7*	4.9*	1.9	
	17.2	4.8	3.5	3.8	4.2	4.6	4.9*	2.0	
	19.4	5.2	2.6	3.0	3.4	3.8	4.1	2.0	
	21.7	5.5	1.8	2.2	2.5	2.9	3.3	2.0	

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1061	1401
TOTAL CAP.	X0.99	X1.02
SENS. CAP.	X0.95	X1.08
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 6.01 KW**  
 AIRFLOW = 1231 CMH  
 COMPRESSOR POWER = 1638 WATTS  
 I.D. FAN POWER = 310 WATTS  
 O.D. FAN POWER = 130 WATTS  
 E.E.R. = 9.40 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 3/4 IN. SUCT.  
 AND 5/16 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.

### TTB524CA-B WITH TWE030CA4 AT 1528 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	
			22.2	23.3	24.4	25.6	26.7		
29.4	15.0	7.0	5.7	6.2	6.6	7.0*	7.2*	1.8	
	17.2	7.5	4.8	5.3	5.7	6.2	6.7	1.8	
	19.4	8.1	3.8	4.3	4.7	5.2	5.7	1.9	
	21.7	8.6	2.8	3.3	3.8	4.2	4.7	2.0	
32.2	15.0	6.9	5.7	6.1	6.6	6.9*	7.1*	1.9	
	17.2	7.4	4.8	5.2	5.7	6.2	6.6	1.9	
	19.4	7.9	3.8	4.2	4.7	5.2	5.6	2.0	
	21.7	8.5	2.8	3.2	3.7	4.1	4.6	2.0	
35.0	15.0	6.7	5.6	6.1	6.5	6.8*	7.0*	2.0	
	17.2	7.2	4.7	5.2	5.6	6.1	6.5	2.0	
	19.4	7.8	3.7	4.2	4.6	5.1	5.6	2.1	
	21.7	8.3	2.7	3.2	3.6	4.1	4.5	2.1	
37.8	15.0	6.6	5.5	6.0	6.5	6.7*	6.9*	2.1	
	17.2	7.1	4.7	5.1	5.6	6.0	6.5	2.1	
	19.4	7.6	3.7	4.1	4.6	5.0	5.5	2.2	
	21.7	8.1	2.6	3.1	3.6	4.0	4.5	2.2	
40.6	15.0	6.4	5.5	5.9	6.4	6.6*	6.7*	2.2	
	17.2	6.9	4.6	5.0	5.5	5.9	6.4	2.2	
	19.4	7.4	3.6	4.0	4.5	5.0	5.4	2.3	
	21.7	7.9	2.6	3.0	3.5	4.0	4.4	2.3	
46.1	15.0	6.1	5.3	5.8	6.2*	6.3*	6.4*	2.4	
	17.2	6.5	4.5	4.9	5.4	5.8	6.3	2.4	
	19.4	7.0	3.5	3.9	4.4	4.8	5.3	2.4	
	21.7	7.5	2.4	2.9	3.3	3.8	4.3	2.5	
48.9	15.0	5.9	5.3	5.7	6.0*	6.2*	6.3*	2.5	
	17.2	6.4	4.4	4.8	5.3	5.7	6.2	2.5	
	19.4	6.8	3.4	3.8	4.3	4.7	5.2	2.5	
	21.7	7.3	2.4	2.8	3.3	3.8	4.2	2.6	

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1358	1741
TOTAL CAP.	X0.99	X1.01
SENS. CAP.	X0.95	X1.06
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 7.76 KW**  
 AIRFLOW = 1528 CMH  
 COMPRESSOR POWER = 2068 WATTS  
 I.D. FAN POWER = 400 WATTS  
 O.D. FAN POWER = 165 WATTS  
 E.E.R. = 9.50 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 3/4 IN. SUCT.  
 AND 5/16 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.



# Performance Data Cooling

## English Units

### TTB530CA-B WITH TWE030CA4 AT 1000 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	25.9	21.2	22.9	24.6	26.1*	26.7*	2.01	46.3	
	63	27.8	17.9	19.6	21.3	23.0	24.7	2.05	50.2	
	67	29.8	14.2	15.9	17.6	19.3	21.0	2.10	54.4	
	71	31.9	10.4	12.1	13.8	15.5	17.2	2.15	58.6	
90	59	25.6	21.1	22.8	24.5	25.9*	26.4*	2.11	46.5	
	63	27.5	17.7	19.4	21.1	22.8	24.5	2.16	50.4	
	67	29.4	14.0	15.7	17.4	19.1	20.8	2.20	54.6	
	71	31.5	10.3	12.0	13.7	15.4	17.1	2.25	58.8	
95	59	25.2	20.9	22.6	24.3	25.6*	26.1*	2.22	46.7	
	63	27.1	17.6	19.3	21.0	22.7	24.4	2.26	50.6	
	67	29.0	13.9	15.6	17.3	19.0	20.7	2.30	54.8	
	71	31.0	10.1	11.8	13.5	15.2	16.9	2.34	59.1	
100	59	24.7	20.7	22.4	24.1	25.1*	25.7*	2.33	47.0	
	63	26.5	17.3	19.0	20.7	22.5	24.2	2.37	50.9	
	67	28.4	13.6	15.3	17.0	18.7	20.4	2.40	55.1	
	71	30.3	9.9	11.6	13.3	15.0	16.7	2.44	59.4	
105	59	24.1	20.5	22.2	23.9	24.7*	25.2*	2.45	47.3	
	63	25.9	17.1	18.8	20.5	22.2	23.9	2.48	51.2	
	67	27.7	13.4	15.1	16.8	18.5	20.2	2.51	55.4	
	71	29.6	9.6	11.3	13.0	14.7	16.4	2.54	59.7	
115	59	23.0	20.0	21.7	23.2*	23.7*	24.3*	2.69	47.9	
	63	24.7	16.6	18.3	20.0	21.7	23.4	2.70	51.8	
	67	26.4	12.9	14.6	16.3	18.0	19.7	2.71	56.1	
	71	28.2	9.1	10.8	12.6	14.3	16.0	2.73	60.4	
120	59	22.4	19.8	21.5	22.7*	23.3*	23.8*	2.81	48.2	
	63	24.1	16.4	18.1	19.8	21.5	23.2	2.81	52.2	
	67	25.8	12.7	14.4	16.1	17.8	19.5	2.82	56.4	
	71	27.5	8.9	10.6	12.3	14.0	15.7	2.82	60.7	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	875	1125
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.05
COMPR. KW	X0.99	X1.01
A.D.P.	-1.3	1.1

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 29000 BTUH**  
AIRFLOW = 1000 CFM  
APP. DEW PT. = 54.8 DEG. F  
COMPRESSOR POWER = 2299 WATTS  
I.D. FAN POWER = 410 WATTS  
O.D. FAN POWER = 149 WATTS  
E.E.R. = 9.65 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 3/4 SUCT.  
AND 5/16 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

### TTB530CA-B WITH TWE040CA4-B AT 1100 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	28.0	24.1	26.1	28.1*	28.7*	29.4*	2.05	47.7	
	63	29.9	20.2	22.2	24.2	26.2	28.2	2.10	51.6	
	67	32.0	15.8	17.8	19.8	21.8	23.8	2.15	55.9	
	71	34.2	11.3	13.4	15.4	17.4	19.4	2.20	60.2	
90	59	27.5	24.0	26.0	27.7*	28.4*	29.0*	2.16	47.9	
	63	29.5	20.0	22.0	24.0	26.0	28.0	2.20	51.9	
	67	31.5	15.6	17.6	19.6	21.6	23.6	2.25	56.1	
	71	33.6	11.1	13.2	15.2	17.2	19.2	2.30	60.4	
95	59	27.1	23.8	25.8	27.4*	28.0*	28.6*	2.27	48.1	
	63	29.0	19.8	21.8	23.8	25.8	27.8	2.31	52.1	
	67	31.0	15.4	17.4	19.4	21.4	23.4	2.35	56.3	
	71	33.0	10.9	13.0	15.0	17.0	19.0	2.39	60.6	
100	59	26.4	23.5	25.5	26.8*	27.4*	28.0*	2.38	48.4	
	63	28.3	19.5	21.5	23.5	25.5	27.5	2.42	52.4	
	67	30.2	15.1	17.1	19.1	21.1	23.1	2.46	56.6	
	71	32.2	10.7	12.7	14.7	16.7	18.7	2.49	61.0	
105	59	25.8	23.2	25.2	26.3*	26.9*	27.5*	2.50	48.7	
	63	27.6	19.2	21.2	23.2	25.2	27.2	2.53	52.7	
	67	29.4	14.8	16.8	18.8	20.8	22.9	2.56	56.9	
	71	31.3	10.4	12.4	14.4	16.4	18.4	2.59	61.3	
115	59	24.4	22.7	24.6*	25.1*	25.7*	26.3*	2.74	49.3	
	63	26.1	18.6	20.7	22.7	24.7	26.3*	2.76	53.3	
	67	27.9	14.3	16.3	18.3	20.3	22.3	2.77	57.6	
	71	29.7	9.8	11.8	13.8	15.8	17.8	2.79	61.9	
120	59	23.8	22.4	24.0*	24.6*	25.1*	25.7*	2.87	49.6	
	63	25.4	18.4	20.4	22.4	24.4	25.7*	2.87	53.6	
	67	27.1	14.0	16.0	18.0	20.0	22.0	2.88	57.9	
	71	28.8	9.5	11.5	13.5	15.5	17.5	2.88	62.2	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	975	1250
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.06
COMPR. KW	X0.99	X1.01
A.D.P.	-1.1	1.1

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 31000 BTUH**  
AIRFLOW = 1110 CFM  
APP. DEW PT. = 56.4 DEG. F  
COMPRESSOR POWER = 2351 WATTS  
I.D. FAN POWER = 270 WATTS  
O.D. FAN POWER = 149 WATTS  
E.E.R. = 10.70 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 3/4 SUCT.  
AND 5/16 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

# Performance Data Cooling

## Metric Units

### TTB530CA-B WITH TWE030CA4 AT 1698 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	7.6	6.2	6.7	7.2	7.6*	7.8*	2.0
	17.2	8.1	5.2	5.7	6.2	6.7	7.2	2.0
	19.4	8.7	4.2	4.7	5.2	5.7	6.2	2.1
	21.7	9.3	3.0	3.5	4.0	4.5	5.0	2.2
32.2	15.0	7.5	6.2	6.7	7.2	7.6*	7.7*	2.1
	17.2	8.1	5.2	5.7	6.2	6.7	7.2	2.2
	19.4	8.6	4.1	4.6	5.1	5.6	6.1	2.2
	21.7	9.2	3.0	3.5	4.0	4.5	5.0	2.3
35.0	15.0	7.4	6.1	6.6	7.1	7.5*	7.6*	2.2
	17.2	7.9	5.2	5.7	6.2	6.7	7.1	2.3
	19.4	8.5	4.1	4.6	5.1	5.6	6.1	2.3
	21.7	9.1	3.0	3.5	4.0	4.5	5.0	2.3
37.8	15.0	7.2	6.1	6.6	7.1	7.4*	7.5*	2.3
	17.2	7.8	5.1	5.6	6.1	6.6	7.1	2.4
	19.4	8.3	4.0	4.5	5.0	5.5	6.0	2.4
	21.7	8.9	2.9	3.4	3.9	4.4	4.9	2.4
40.6	15.0	7.1	6.0	6.5	7.0	7.2*	7.4*	2.5
	17.2	7.6	5.0	5.5	6.0	6.5	7.0	2.5
	19.4	8.1	3.9	4.4	4.9	5.4	5.9	2.5
	21.7	8.7	2.8	3.3	3.8	4.3	4.8	2.5
46.1	15.0	6.7	5.9	6.4	6.8*	6.9*	7.1*	2.7
	17.2	7.2	4.9	5.4	5.9	6.4	6.9	2.7
	19.4	7.7	3.8	4.3	4.8	5.3	5.8	2.7
	21.7	8.3	2.7	3.2	3.7	4.2	4.7	2.7
48.9	15.0	6.6	5.8	6.3	6.7*	6.8*	7.0*	2.8
	17.2	7.1	4.8	5.3	5.8	6.3	6.8	2.8
	19.4	7.6	3.7	4.2	4.7	5.2	5.7	2.8
	21.7	8.1	2.6	3.1	3.6	4.1	4.6	2.8

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1486	1910
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.05
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

#### GROSS CAPACITY = 8.50 KW

AIRFLOW = 1698 CMH

COMPRESSOR POWER = 2299 WATTS

I.D. FAN POWER = 410 WATTS

O.D. FAN POWER = 149 WATTS

E.E.R. = 9.65 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 3/4 IN. SUCT.  
AND 5/16 IN. LIQUID LINES

#### \* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)

TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL

ALL TEMPERATURES IN DEGREES C.

### TTB530CA-B WITH TWE040CA4-B AT 1868 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	8.2	7.1	7.6	8.2*	8.4*	8.6*	2.0
	17.2	8.8	5.9	6.5	7.1	7.7	8.3	2.1
	19.4	9.4	4.6	5.2	5.8	6.4	7.0	2.2
	21.7	10.0	3.3	3.9	4.5	5.1	5.7	2.2
32.2	15.0	8.1	7.0	7.6	8.1*	8.3*	8.5*	2.2
	17.2	8.6	5.9	6.4	7.0	7.6	8.2	2.2
	19.4	9.2	4.6	5.2	5.7	6.3	6.9	2.3
	21.7	9.8	3.3	3.9	4.5	5.0	5.6	2.3
35.0	15.0	7.9	7.0	7.6	8.0*	8.2*	8.4*	2.3
	17.2	8.5	5.8	6.4	7.0	7.6	8.1	2.3
	19.4	9.1	4.5	5.1	5.7	6.3	6.9	2.3
	21.7	9.7	3.2	3.8	4.4	5.0	5.6	2.4
37.8	15.0	7.7	6.9	7.5	7.9*	8.0*	8.2*	2.4
	17.2	8.3	5.7	6.3	6.9	7.5	8.1	2.4
	19.4	8.8	4.4	5.0	5.6	6.2	6.8	2.5
	21.7	9.4	3.1	3.7	4.3	4.9	5.5	2.5
40.6	15.0	7.6	6.8	7.4	7.7*	7.9*	8.1*	2.5
	17.2	8.1	5.6	6.2	6.8	7.4	8.0	2.5
	19.4	8.6	4.3	4.9	5.5	6.1	6.7	2.6
	21.7	9.2	3.0	3.6	4.2	4.8	5.4	2.6
46.1	15.0	7.1	6.7	7.2*	7.4*	7.5*	7.7*	2.7
	17.2	7.6	5.4	6.1	6.7	7.2	7.7*	2.8
	19.4	8.2	4.2	4.8	5.4	5.9	6.5	2.8
	21.7	8.7	2.9	3.5	4.0	4.6	5.2	2.8
48.9	15.0	7.0	6.6	7.0*	7.2*	7.4*	7.5*	2.9
	17.2	7.4	5.4	6.0	6.6	7.1	7.5*	2.9
	19.4	7.9	4.1	4.7	5.3	5.9	6.4	2.9
	21.7	8.4	2.8	3.4	4.0	4.5	5.1	2.9

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1656	2123
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.06
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

#### GROSS CAPACITY = 9.08 KW

AIRFLOW = 1885 CMH

COMPRESSOR POWER = 2351 WATTS

I.D. FAN POWER = 270 WATTS

O.D. FAN POWER = 149 WATTS

E.E.R. = 10.70 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 3/4 IN. SUCT.  
AND 5/16 IN. LIQUID LINES

#### \* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)

TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL

ALL TEMPERATURES IN DEGREES C.



# Performance Data Cooling

## English Units

### TTB536CA WITH TWE030CA4 AT 1100 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	31.8	24.8	26.6	28.5	30.3	32.0*	2.52	44.4	
	63	34.0	21.1	22.9	24.8	26.6	28.5	2.61	48.3	
	67	36.4	17.0	18.8	20.7	22.6	24.4	2.70	52.5	
	71	38.8	12.8	14.7	16.5	18.4	20.2	2.80	56.8	
90	59	31.2	24.5	26.3	28.2	30.0	31.5*	2.63	44.8	
	63	33.4	20.8	22.6	24.5	26.4	28.2	2.72	48.7	
	67	35.6	16.7	18.6	20.4	22.3	24.1	2.82	52.9	
	71	38.0	12.5	14.4	16.2	18.1	20.0	2.92	57.2	
95	59	30.5	24.2	26.1	27.9	29.8	31.0*	2.75	45.1	
	63	32.7	20.5	22.4	24.2	26.1	27.9	2.84	49.1	
	67	34.9	16.4	18.3	20.1	22.0	23.8	2.94	53.3	
	71	37.2	12.2	14.1	16.0	17.8	19.7	3.04	57.6	
100	59	29.7	23.8	25.7	27.6	29.4	30.3*	2.87	45.6	
	63	31.8	20.2	22.0	23.9	25.7	27.6	2.96	49.5	
	67	33.9	16.1	17.9	19.8	21.6	23.5	3.06	53.7	
	71	36.1	11.9	13.7	15.6	17.5	19.3	3.16	58.0	
105	59	28.9	23.5	25.4	27.2	29.0*	29.7*	2.99	46.0	
	63	30.9	19.8	21.7	23.5	25.4	27.2	3.08	49.9	
	67	33.0	15.7	17.6	19.4	21.3	23.1	3.18	54.2	
	71	35.1	11.5	13.4	15.3	17.1	19.0	3.28	58.5	
115	59	27.3	22.8	24.7	26.5	27.7*	28.3*	3.24	46.8	
	63	29.1	19.1	21.0	22.8	24.7	26.5	3.32	50.8	
	67	31.1	15.0	16.9	18.7	20.6	22.4	3.42	55.0	
	71	33.1	10.8	12.7	14.6	16.4	18.3	3.51	59.4	
120	59	26.4	22.5	24.3	26.2	27.0*	27.6*	3.36	47.3	
	63	28.3	18.8	20.6	22.5	24.3	26.2	3.45	51.2	
	67	30.2	14.7	16.5	18.4	20.2	22.1	3.53	55.5	
	71	32.1	10.5	12.4	14.2	16.1	17.9	3.63	59.8	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	975	1275
TOTAL CAP.	X0.98	X1.02
SENS. CAP.	X0.95	X1.06
COMPR. KW	X0.99	X1.01
A.D.P.	-1.3	1.5

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 35000 BTUH**  
AIRFLOW = 1125 CFM  
APP. DEW PT. = 53.5 DEG. F  
COMPRESSOR POWER = 2946 WATTS  
I.D. FAN POWER = 490 WATTS  
O.D. FAN POWER = 149 WATTS  
E.E.R. = 9.20 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 3/4 SUCT.  
AND 5/16 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

### TTB536CA WITH TWE040CA4-B AT 1300 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	34.0	28.2	30.4	32.7	34.4*	35.2*	2.61	46.6	
	63	36.3	23.6	25.9	28.1	30.4	32.7	2.70	50.6	
	67	38.7	18.6	20.8	23.1	25.4	27.7	2.80	54.9	
	71	41.1	13.4	15.7	18.0	20.3	22.5	2.90	59.2	
90	59	33.3	27.8	30.1	32.4	33.8*	34.5*	2.73	46.9	
	63	35.5	23.3	25.5	27.8	30.1	32.4	2.83	50.9	
	67	37.8	18.2	20.5	22.8	25.1	27.3	2.92	55.2	
	71	40.2	13.1	15.4	17.7	19.9	22.2	3.02	59.6	
95	59	32.5	27.5	29.8	32.1	33.2*	33.9*	2.85	47.2	
	63	34.7	22.9	25.2	27.5	29.8	32.0	2.95	51.2	
	67	36.9	17.9	20.2	22.4	24.7	27.0	3.05	55.5	
	71	39.2	12.8	15.1	17.3	19.6	21.9	3.15	59.9	
100	59	31.6	27.1	29.4	31.7*	32.4*	33.0*	2.98	47.6	
	63	33.6	22.5	24.8	27.1	29.4	31.6	3.07	51.6	
	67	35.8	17.5	19.8	22.1	24.3	26.6	3.17	55.9	
	71	38.0	12.4	14.7	16.9	19.2	21.5	3.27	60.3	
105	59	30.6	26.7	29.0	30.9*	31.6*	32.2*	3.10	48.0	
	63	32.6	22.1	24.4	26.7	29.0	31.2	3.19	52.0	
	67	34.7	17.1	19.4	21.7	23.9	26.2	3.29	56.3	
	71	36.9	12.0	14.3	16.5	18.8	21.1	3.39	60.7	
115	59	28.7	25.9	28.2	29.3*	29.9*	30.6*	3.35	48.7	
	63	30.6	21.3	23.6	25.9	28.2	30.4	3.44	52.8	
	67	32.5	16.3	18.6	20.9	23.1	25.4	3.54	57.1	
	71	34.5	11.2	13.5	15.8	18.0	20.3	3.63	61.4	
120	59	27.8	25.5	27.9*	28.5*	29.1*	29.7*	3.48	49.1	
	63	29.6	20.9	23.2	25.5	27.8	29.7*	3.57	53.1	
	67	31.4	15.9	18.2	20.5	22.7	25.0	3.66	57.4	
	71	33.4	10.8	13.1	15.4	17.6	19.9	3.75	61.8	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1150	1500
TOTAL CAP.	X0.98	X1.02
SENS. CAP.	X0.95	X1.07
COMPR. KW	X0.99	X1.01
A.D.P.	-1.2	1.2

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 37000 BTUH**  
AIRFLOW = 1325 CFM  
APP. DEW PT. = 55.7 DEG. F  
COMPRESSOR POWER = 3051 WATTS  
I.D. FAN POWER = 360 WATTS  
O.D. FAN POWER = 149 WATTS  
E.E.R. = 10.00 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 3/4 SUCT.  
AND 5/16 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

# Performance Data Cooling

## Metric Units

### TTB536CA WITH TWE030CA4 AT 1868 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	9.3	7.3	7.8	8.4	8.9	9.4*	2.5
	17.2	10.0	6.2	6.7	7.3	7.8	8.4	2.6
	19.4	10.7	5.0	5.5	6.1	6.6	7.1	2.7
	21.7	11.4	3.8	4.3	4.8	5.4	5.9	2.8
32.2	15.0	9.1	7.2	7.7	8.3	8.8	9.2*	2.6
	17.2	9.8	6.1	6.6	7.2	7.7	8.3	2.7
	19.4	10.4	4.9	5.4	6.0	6.5	7.1	2.8
	21.7	11.1	3.7	4.2	4.7	5.3	5.9	2.9
35.0	15.0	8.9	7.1	7.6	8.2	8.7	9.1*	2.8
	17.2	9.6	6.0	6.6	7.1	7.6	8.2	2.8
	19.4	10.2	4.8	5.4	5.9	6.4	7.0	2.9
	21.7	10.9	3.6	4.1	4.7	5.2	5.8	3.0
37.8	15.0	8.7	7.0	7.5	8.1	8.6	8.9*	2.9
	17.2	9.3	5.9	6.4	7.0	7.5	8.1	3.0
	19.4	9.9	4.7	5.2	5.8	6.3	6.9	3.1
	21.7	10.6	3.5	4.0	4.6	5.1	5.7	3.2
40.6	15.0	8.5	6.9	7.4	8.0	8.5*	8.7*	3.0
	17.2	9.1	5.8	6.4	6.9	7.4	8.0	3.1
	19.4	9.7	4.6	5.2	5.7	6.2	6.8	3.2
	21.7	10.3	3.4	3.9	4.5	5.0	5.6	3.3
46.1	15.0	8.0	6.7	7.2	7.8	8.1*	8.3*	3.2
	17.2	8.5	5.6	6.2	6.7	7.2	7.8	3.3
	19.4	9.1	4.4	5.0	5.5	6.0	6.6	3.4
	21.7	9.7	3.2	3.7	4.3	4.8	5.4	3.5
48.9	15.0	7.7	6.6	7.1	7.7	7.9*	8.1*	3.4
	17.2	8.3	5.5	6.0	6.6	7.1	7.7	3.5
	19.4	8.8	4.3	4.8	5.4	5.9	6.5	3.5
	21.7	9.4	3.1	3.6	4.2	4.7	5.2	3.6

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1656	2165
TOTAL CAP.	X0.98	X1.02
SENS. CAP.	X0.95	X1.06
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 10.25 KW**  
 AIRFLOW = 1910 CMH  
 COMPRESSOR POWER = 2946 WATTS  
 I.D. FAN POWER = 490 WATTS  
 O.D. FAN POWER = 149 WATTS  
 E.E.R. = 9.20 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 3/4 IN. SUCT.  
 AND 5/16 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.

### TTB536CA WITH TWE040CA4-B AT 2208 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	10.0	8.3	8.9	9.6	10.1*	10.3*	2.6
	17.2	10.6	6.9	7.6	8.2	8.9	9.6	2.7
	19.4	11.3	5.4	6.1	6.8	7.4	8.1	2.8
	21.7	12.0	3.9	4.6	5.3	5.9	6.6	2.9
32.2	15.0	9.8	8.1	8.8	9.5	9.9*	10.1*	2.7
	17.2	10.4	6.8	7.5	8.1	8.8	9.5	2.8
	19.4	11.1	5.3	6.0	6.7	7.4	8.0	2.9
	21.7	11.8	3.8	4.5	5.2	5.8	6.5	3.0
35.0	15.0	9.5	8.1	8.7	9.4	9.7*	9.9*	2.8
	17.2	10.2	6.7	7.4	8.1	8.7	9.4	3.0
	19.4	10.8	5.2	5.9	6.6	7.2	7.9	3.0
	21.7	11.5	3.8	4.4	5.1	5.7	6.4	3.2
37.8	15.0	9.3	7.9	8.6	9.3*	9.5*	9.7*	3.0
	17.2	9.8	6.6	7.3	7.9	8.6	9.3	3.1
	19.4	10.5	5.1	5.8	6.5	7.1	7.8	3.2
	21.7	11.1	3.6	4.3	5.0	5.6	6.3	3.3
40.6	15.0	9.0	7.8	8.5	9.1*	9.3*	9.4*	3.1
	17.2	9.6	6.5	7.1	7.8	8.5	9.1	3.2
	19.4	10.2	5.0	5.7	6.4	7.0	7.7	3.3
	21.7	10.8	3.5	4.2	4.8	5.5	6.2	3.4
46.1	15.0	8.4	7.6	8.3	8.6*	8.8*	9.0*	3.3
	17.2	9.0	6.2	6.9	7.6	8.3	8.9	3.4
	19.4	9.5	4.8	5.4	6.1	6.8	7.4	3.5
	21.7	10.1	3.3	4.0	4.6	5.3	5.9	3.6
48.9	15.0	8.1	7.5	8.2*	8.4*	8.5*	8.7*	3.5
	17.2	8.7	6.1	6.8	7.5	8.1	8.7*	3.6
	19.4	9.2	4.7	5.3	6.0	6.7	7.3	3.7
	21.7	9.8	3.2	3.8	4.5	5.2	5.8	3.8

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1953	2547
TOTAL CAP.	X0.98	X1.02
SENS. CAP.	X0.95	X1.07
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 10.84 KW**  
 AIRFLOW = 2250 CMH  
 COMPRESSOR POWER = 3051 WATTS  
 I.D. FAN POWER = 360 WATTS  
 O.D. FAN POWER = 149 WATTS  
 E.E.R. = 10.00 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 3/4 IN. SUCT.  
 AND 5/16 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.



# Performance Data Cooling

## English Units

### TTA030CD WITH TWE030CA4 AT 1000 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.
			72	74	76	78	80		
85	59	27.3	21.8	23.5	25.2	26.9	27.9*	2.27	45.5
	63	29.5	18.5	20.2	21.9	23.6	25.3	2.35	49.3
	67	31.7	14.9	16.6	18.3	20.0	21.7	2.43	53.4
	71	34.1	11.2	12.9	14.6	16.3	18.0	2.51	57.5
90	59	26.8	21.6	23.3	25.0	26.7	27.5*	2.38	45.8
	63	28.9	18.3	20.0	21.7	23.4	25.1	2.46	49.6
	67	31.1	14.7	16.4	18.1	19.8	21.5	2.54	53.7
	71	33.4	10.9	12.6	14.3	16.0	17.7	2.63	57.9
95	59	26.3	21.4	23.1	24.8	26.4*	27.1*	2.49	46.1
	63	28.3	18.1	19.8	21.5	23.2	24.9	2.57	49.9
	67	30.5	14.4	16.1	17.8	19.5	21.2	2.65	54.0
	71	32.7	10.7	12.4	14.1	15.8	17.5	2.74	58.2
100	59	25.6	21.1	22.8	24.5	25.9*	26.5*	2.61	46.4
	63	27.6	17.8	19.5	21.2	22.9	24.6	2.69	50.3
	67	29.7	14.1	15.8	17.5	19.2	20.9	2.77	54.4
	71	31.8	10.4	12.1	13.8	15.5	17.2	2.85	58.6
105	59	24.9	20.8	22.5	24.2	25.3*	26.0*	2.73	46.8
	63	26.9	17.5	19.2	20.9	22.6	24.3	2.81	50.7
	67	28.9	13.8	15.5	17.2	18.9	20.6	2.88	54.8
	71	31.0	10.1	11.8	13.5	15.2	16.9	2.96	59.0
115	59	23.6	20.2	21.9	23.7*	24.2*	24.8*	2.97	47.6
	63	25.4	16.9	18.6	20.3	22.0	23.7	3.04	51.4
	67	27.3	13.2	14.9	16.6	18.3	20.0	3.11	55.6
	71	29.2	9.5	11.2	12.9	14.6	16.3	3.19	59.9
120	59	22.9	20.0	21.7	23.1*	23.7*	24.2*	3.10	47.9
	63	24.6	16.6	18.3	20.0	21.7	23.4	3.16	51.8
	67	26.4	12.9	14.6	16.3	18.0	19.7	3.23	56.0
	71	28.3	9.2	10.9	12.6	14.3	16.0	3.30	60.3

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	875	1125
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.05
COMPR. KW	X0.99	X1.01
A.D.P.	-1.4	1.1

VALUES AT 95/80/67 RATING CONDITIONS

#### GROSS CAPACITY = 30500 BTUH

AIRFLOW = 1000 CFM  
APP. DEW PT. = 54.0 DEG. F  
COMPRESSOR POWER = 2653 WATTS  
I.D. FAN POWER = 430 WATTS  
O.D. FAN POWER = 227 WATTS  
E.E.R. = 8.75 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 7/8 SUCT.  
AND 3/8 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

### TTA030CD WITH TWE040CA4-B AT 1125 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.
			72	74	76	78	80		
85	59	29.4	24.8	26.8	28.9	30.0*	30.7*	2.34	47.1
	63	31.7	20.9	22.9	24.9	27.0	29.0	2.42	51.0
	67	34.0	16.5	18.5	20.6	22.6	24.6	2.50	55.2
	71	36.5	12.1	14.1	16.1	18.1	20.2	2.59	59.4
90	59	28.8	24.6	26.6	28.6	29.5*	30.2*	2.45	47.4
	63	31.0	20.6	22.6	24.6	26.7	28.7	2.53	51.3
	67	33.3	16.2	18.2	20.3	22.3	24.3	2.62	55.5
	71	35.6	11.8	13.8	15.8	17.8	19.9	2.71	59.8
95	59	28.2	24.3	26.3	28.3*	29.0*	29.7*	2.57	47.7
	63	30.3	20.3	22.3	24.4	26.4	28.4	2.65	51.6
	67	32.5	15.9	18.0	20.0	22.0	24.0	2.73	55.8
	71	34.8	11.5	13.5	15.5	17.6	19.6	2.82	60.1
100	59	27.4	23.9	26.0	27.7*	28.3*	29.0*	2.69	48.1
	63	29.4	20.0	22.0	24.0	26.0	28.1	2.77	52.0
	67	31.5	15.6	17.6	19.6	21.7	23.7	2.85	56.2
	71	33.8	11.1	13.1	15.2	17.2	19.2	2.94	60.5
105	59	26.6	23.6	25.6	27.0*	27.6*	28.3*	2.81	48.4
	63	28.5	19.6	21.6	23.7	25.7	27.7	2.89	52.3
	67	30.6	15.2	17.3	19.3	21.3	23.3	2.97	56.6
	71	32.7	10.8	12.8	14.8	16.8	18.9	3.05	60.9
115	59	25.0	22.9	25.0	25.7*	26.3*	26.9*	3.06	49.1
	63	26.8	18.9	21.0	23.0	25.0	26.9*	3.13	53.1
	67	28.7	14.5	16.6	18.6	20.6	22.6	3.20	57.3
	71	30.6	10.0	12.1	14.1	16.1	18.2	3.28	61.6
120	59	24.2	22.6	24.4*	25.0*	25.6*	26.2*	3.18	49.5
	63	25.9	18.6	20.6	22.6	24.7	26.2*	3.25	53.4
	67	27.7	14.2	16.2	18.2	20.3	22.3	3.32	57.7
	71	29.6	9.7	11.7	13.8	15.8	17.8	3.39	62.0

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	975	1275
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.06
COMPR. KW	X0.99	X1.01
A.D.P.	-1.4	1.1

VALUES AT 95/80/67 RATING CONDITIONS

#### GROSS CAPACITY = 32500 BTUH

AIRFLOW = 1125 CFM  
APP. DEW PT. = 55.8 DEG. F  
COMPRESSOR POWER = 2733 WATTS  
I.D. FAN POWER = 290 WATTS  
O.D. FAN POWER = 227 WATTS  
E.E.R. = 9.60 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 7/8 SUCT.  
AND 3/8 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

# Performance Data Cooling

## Metric Units

### TTA030CD WITH TWE030CA4 AT 1698 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	8.0	6.4	6.9	7.4	7.9	8.2*	2.3
	17.2	8.6	5.4	5.9	6.4	6.9	7.4	2.3
	19.4	9.3	4.4	4.9	5.4	5.9	6.4	2.4
	21.7	10.0	3.3	3.8	4.3	4.8	5.3	2.5
32.2	15.0	7.9	6.3	6.8	7.3	7.8	8.1*	2.4
	17.2	8.5	5.4	5.9	6.4	6.9	7.4	2.5
	19.4	9.1	4.3	4.8	5.3	5.8	6.3	2.5
	21.7	9.8	3.2	3.7	4.2	4.7	5.2	2.6
35.0	15.0	7.7	6.3	6.8	7.3	7.7*	7.9*	2.5
	17.2	8.3	5.3	5.8	6.3	6.8	7.3	2.6
	19.4	8.9	4.2	4.7	5.2	5.7	6.2	2.7
	21.7	9.6	3.1	3.6	4.1	4.6	5.1	2.7
37.8	15.0	7.5	6.2	6.7	7.2	7.6*	7.8*	2.6
	17.2	8.1	5.2	5.7	6.2	6.7	7.2	2.7
	19.4	8.7	4.1	4.6	5.1	5.6	6.1	2.8
	21.7	9.3	3.0	3.5	4.0	4.5	5.0	2.8
40.6	15.0	7.3	6.1	6.6	7.1	7.4*	7.6*	2.7
	17.2	7.9	5.1	5.6	6.1	6.6	7.1	2.8
	19.4	8.5	4.0	4.5	5.0	5.5	6.0	2.9
	21.7	9.1	3.0	3.5	4.0	4.5	5.0	3.0
46.1	15.0	6.9	5.9	6.4	6.9*	7.1*	7.3*	3.0
	17.2	7.4	5.0	5.4	5.9	6.4	6.9	3.0
	19.4	8.0	3.9	4.4	4.9	5.4	5.9	3.1
	21.7	8.6	2.8	3.3	3.8	4.3	4.8	3.2
48.9	15.0	6.7	5.9	6.4	6.8*	6.9*	7.1*	3.1
	17.2	7.2	4.9	5.4	5.9	6.4	6.9	3.2
	19.4	7.7	3.8	4.3	4.8	5.3	5.8	3.2
	21.7	8.3	2.7	3.2	3.7	4.2	4.7	3.3

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1486	1910
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.05
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 8.94 KW**  
 AIRFLOW = 1698 CMH  
 COMPRESSOR POWER = 2653 WATTS  
 I.D. FAN POWER = 430 WATTS  
 O.D. FAN POWER = 227 WATTS  
 E.E.R. = 8.75 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 7/8 IN. SUCT.  
 AND 3/8 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.

### TTA030CD WITH TWE040CA4-B AT 1910 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	8.6	7.3	7.9	8.5	8.8*	9.0*	2.3
	17.2	9.3	6.1	6.7	7.3	7.9	8.5	2.4
	19.4	10.0	4.8	5.4	6.0	6.6	7.2	2.5
	21.7	10.7	3.5	4.1	4.7	5.3	5.9	2.6
32.2	15.0	8.4	7.2	7.8	8.4	8.6*	8.8*	2.5
	17.2	9.1	6.0	6.6	7.2	7.8	8.4	2.5
	19.4	9.8	4.7	5.3	5.9	6.5	7.1	2.6
	21.7	10.4	3.5	4.0	4.6	5.2	5.8	2.7
35.0	15.0	8.3	7.1	7.7	8.3*	8.5*	8.7*	2.6
	17.2	8.9	5.9	6.5	7.1	7.7	8.3	2.7
	19.4	9.5	4.7	5.3	5.9	6.4	7.0	2.7
	21.7	10.2	3.4	4.0	4.5	5.2	5.7	2.8
37.8	15.0	8.0	7.0	7.6	8.1*	8.3*	8.5*	2.7
	17.2	8.6	5.9	6.4	7.0	7.6	8.2	2.8
	19.4	9.2	4.6	5.2	5.7	6.4	6.9	2.8
	21.7	9.9	3.3	3.8	4.5	5.0	5.6	2.9
40.6	15.0	7.8	6.9	7.5	7.9*	8.1*	8.3*	2.8
	17.2	8.4	5.7	6.3	6.9	7.5	8.1	2.9
	19.4	9.0	4.5	5.1	5.7	6.2	6.8	3.0
	21.7	9.6	3.2	3.8	4.3	4.9	5.5	3.0
46.1	15.0	7.3	6.7	7.3	7.5*	7.7*	7.9*	3.1
	17.2	7.9	5.5	6.2	6.7	7.3	7.9*	3.1
	19.4	8.4	4.2	4.9	5.4	6.0	6.6	3.2
	21.7	9.0	2.9	3.5	4.1	4.7	5.3	3.3
48.9	15.0	7.1	6.6	7.1*	7.3*	7.5*	7.7*	3.2
	17.2	7.6	5.4	6.0	6.6	7.2	7.7*	3.3
	19.4	8.1	4.2	4.7	5.3	5.9	6.5	3.3
	21.7	8.7	2.8	3.4	4.0	4.6	5.2	3.4

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1656	2165
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.06
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 9.52 KW**  
 AIRFLOW = 1910 CMH  
 COMPRESSOR POWER = 2733 WATTS  
 I.D. FAN POWER = 290 WATTS  
 O.D. FAN POWER = 227 WATTS  
 E.E.R. = 9.60 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 7/8 IN. SUCT.  
 AND 3/8 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.





# Performance Data Cooling

## English Units

### TTA040CD WITH TWE040CA4-B AT 1325 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.
			72	74	76	78	80		
85	59	37.1	29.7	32.0	34.3	36.6	37.9*	3.24	45.5
	63	39.9	25.1	27.5	29.8	32.1	34.4	3.37	49.4
	67	42.8	20.2	22.5	24.8	27.1	29.4	3.51	53.5
	71	45.9	15.1	17.4	19.7	22.0	24.3	3.64	57.8
90	59	36.3	29.3	31.6	34.0	36.3	37.3*	3.39	45.8
	63	39.1	24.8	27.1	29.4	31.7	34.1	3.53	49.7
	67	41.9	19.8	22.1	24.4	26.7	29.1	3.66	53.9
	71	44.9	14.7	17.0	19.3	21.6	24.0	3.81	58.1
95	59	35.6	29.0	31.3	33.6	35.8*	36.6*	3.54	46.1
	63	38.2	24.5	26.8	29.1	31.4	33.7	3.68	50.0
	67	41.0	19.5	21.8	24.1	26.4	28.7	3.82	54.2
	71	43.9	14.4	16.7	19.0	21.3	23.6	3.97	58.5
100	59	34.6	28.6	30.9	33.2	35.0*	35.8*	3.70	46.5
	63	37.2	24.1	26.4	28.7	31.0	33.3	3.84	50.4
	67	39.9	19.0	21.4	23.7	26.0	28.3	3.99	54.6
	71	42.6	13.9	16.2	18.6	20.9	23.2	4.14	58.9
105	59	33.7	28.2	30.5	32.8	34.3*	35.1*	3.85	46.9
	63	36.2	23.7	26.0	28.3	30.6	32.9	4.00	50.8
	67	38.8	18.6	20.9	23.3	25.6	27.9	4.15	55.0
	71	41.4	13.5	15.8	18.1	20.5	22.8	4.31	59.3
115	59	31.8	27.4	29.7	31.9*	32.7*	33.4*	4.17	47.7
	63	34.1	22.8	25.1	27.5	29.8	32.1	4.32	51.6
	67	36.5	17.8	20.1	22.4	24.7	27.1	4.48	55.8
	71	39.0	12.7	15.0	17.3	19.6	21.9	4.65	60.1
120	59	30.8	27.0	29.3	31.2*	31.9*	32.6*	4.33	48.0
	63	33.1	22.4	24.7	27.1	29.4	31.7	4.48	52.0
	67	35.4	17.4	19.7	22.0	24.3	26.6	4.65	56.2
	71	37.8	12.3	14.6	16.9	19.2	21.5	4.81	60.5

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1150	1500
TOTAL CAP.	X0.98	X1.02
SENS. CAP.	X0.94	X1.06
COMPR. KW	X0.99	X1.01
A.D.P.	-1.5	1.2

VALUES AT 95/80/67 RATING CONDITIONS

#### GROSS CAPACITY = 41000 BTUH

AIRFLOW = 1325 CFM

APP. DEW PT. = 54.2 DEG. F

COMPRESSOR POWER = 3823 WATTS

I.D. FAN POWER = 380 WATTS

O.D. FAN POWER = 197 WATTS

E.E.R. = 9.00 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 1 1/8  
SUCTION AND 3/8 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

### TTA040CD WITH TWE050CA5-C AT 1600 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.
			72	74	76	78	80		
85	59	40.6	34.4	37.2	40.0	41.5*	42.4*	3.16	47.2
	63	43.6	28.8	31.6	34.4	37.3	40.1	3.29	51.1
	67	46.6	22.6	25.4	28.3	31.1	33.9	3.43	55.4
	71	49.7	16.4	19.2	22.0	24.8	27.6	3.57	59.7
90	59	39.6	33.9	36.8	39.6	40.6*	41.5*	3.29	47.5
	63	42.4	28.3	31.2	34.0	36.8	39.6	3.42	51.5
	67	45.3	22.2	25.0	27.8	30.6	33.5	3.57	55.7
	71	48.4	15.9	18.7	21.5	24.4	27.2	3.71	60.0
95	59	38.6	33.5	36.3	38.8*	39.7*	40.6*	3.42	47.9
	63	41.3	27.9	30.7	33.5	36.4	39.2	3.56	51.8
	67	44.1	21.7	24.5	27.4	30.2	33.0	3.70	56.1
	71	47.1	15.4	18.3	21.1	23.9	26.7	3.85	60.4
100	59	37.4	33.0	35.8	37.9*	38.8*	39.6*	3.55	48.2
	63	40.1	27.4	30.2	33.0	35.9	38.7	3.69	52.2
	67	42.8	21.2	24.1	26.9	29.7	32.5	3.84	56.4
	71	45.6	15.0	17.8	20.6	23.4	26.2	4.00	60.8
105	59	36.3	32.5	35.4	37.0*	37.8*	38.7*	3.69	48.6
	63	38.8	26.9	29.7	32.6	35.4	38.2	3.83	52.6
	67	41.5	20.7	23.6	26.4	29.2	32.0	3.98	56.8
	71	44.2	14.5	17.3	20.1	22.9	25.8	4.14	61.1
115	59	34.0	31.6	34.2*	35.0*	35.8*	36.6*	3.96	49.3
	63	36.4	26.0	28.8	31.6	34.4	36.6*	4.11	53.3
	67	38.9	19.8	22.6	25.4	28.3	31.1	4.26	57.6
	71	41.4	13.5	16.3	19.2	22.0	24.8	4.42	61.9
120	59	32.9	31.1	33.3*	34.1*	34.8*	35.6*	4.09	49.7
	63	35.2	25.5	28.3	31.1	34.0	35.6*	4.24	53.6
	67	37.5	19.3	22.1	25.0	27.8	30.6	4.40	57.9
	71	40.0	13.0	15.9	18.7	21.5	24.3	4.56	62.2

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1375	1775
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.93	X1.05
COMPR. KW	X0.99	X1.01
A.D.P.	-1.4	0.9

VALUES AT 95/80/67 RATING CONDITIONS

#### GROSS CAPACITY = 44000 BTUH

AIRFLOW = 1600 CFM

APP. DEW PT. = 55.9 DEG. F

COMPRESSOR POWER = 3698 WATTS

I.D. FAN POWER = 530 WATTS

O.D. FAN POWER = 197 WATTS

E.E.R. = 9.45 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 1 1/8  
SUCTION AND 3/8 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.



# Performance Data Cooling

## Metric Units

### TTA040CD WITH TWE040CA4-B AT 2250 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	10.9	8.7	9.4	10.0	10.7	11.1*	3.2
	17.2	11.7	7.4	8.1	8.7	9.4	10.1	3.4
	19.4	12.5	5.9	6.6	7.3	7.9	8.6	3.5
	21.7	13.4	4.4	5.1	5.8	6.4	7.1	3.6
32.2	15.0	10.6	8.6	9.3	10.0	10.6	10.9*	3.4
	17.2	11.5	7.3	7.9	8.6	9.3	10.0	3.5
	19.4	12.3	5.8	6.5	7.1	7.8	8.5	3.7
	21.7	13.2	4.3	5.0	5.7	6.3	7.0	3.8
35.0	15.0	10.4	8.5	9.2	9.8	10.5*	10.7*	3.5
	17.2	11.2	7.2	7.9	8.5	9.2	9.9	3.7
	19.4	12.0	5.7	6.4	7.1	7.7	8.4	3.8
	21.7	12.9	4.2	4.9	5.6	6.2	6.9	4.0
37.8	15.0	10.1	8.4	9.1	9.7	10.3*	10.5*	3.7
	17.2	10.9	7.1	7.7	8.4	9.1	9.8	3.8
	19.4	11.7	5.6	6.3	6.9	7.6	8.3	4.0
	21.7	12.5	4.1	4.7	5.4	6.1	6.8	4.1
40.6	15.0	9.9	8.3	8.9	9.6	10.0*	10.3*	3.8
	17.2	10.6	6.9	7.6	8.3	9.0	9.6	4.0
	19.4	11.4	5.4	6.1	6.8	7.5	8.2	4.2
	21.7	12.1	4.0	4.6	5.3	6.0	6.7	4.3
46.1	15.0	9.3	8.0	8.7	9.3*	9.6*	9.8*	4.2
	17.2	10.0	6.7	7.4	8.1	8.7	9.4	4.3
	19.4	10.7	5.2	5.9	6.6	7.2	7.9	4.5
	21.7	11.4	3.7	4.4	5.1	5.7	6.4	4.7
48.9	15.0	9.0	7.9	8.6	9.1*	9.3*	9.6*	4.3
	17.2	9.7	6.6	7.2	7.9	8.6	9.3	4.5
	19.4	10.4	5.1	5.8	6.4	7.1	7.8	4.7
	21.7	11.1	3.6	4.3	5.0	5.6	6.3	4.8

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1953	2547
TOTAL CAP.	X0.98	X1.02
SENS. CAP.	X0.94	X1.06
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 12.01 KW**  
 AIRFLOW = 2250 CMH  
 COMPRESSOR POWER = 3823 WATTS  
 I.D. FAN POWER = 380 WATTS  
 O.D. FAN POWER = 197 WATTS  
 E.E.R. = 9.00 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 1 1/8 IN. SUCT.  
 AND 3/8 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.

### TTA040CD WITH TWE050CA5-C AT 2717 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	11.9	10.1	10.9	11.7	12.2*	12.4*	3.2
	17.2	12.8	8.4	9.3	10.1	10.9	11.7	3.3
	19.4	13.7	6.6	7.4	8.3	9.1	9.9	3.4
	21.7	14.6	4.8	5.6	6.4	7.3	8.1	3.6
32.2	15.0	11.6	9.9	10.8	11.6	11.9*	12.2*	3.3
	17.2	12.4	8.3	9.1	10.0	10.8	11.6	3.4
	19.4	13.3	6.5	7.3	8.1	9.0	9.8	3.6
	21.7	14.2	4.7	5.5	6.3	7.1	8.0	3.7
35.0	15.0	11.3	9.8	10.6	11.4*	11.6*	11.9*	3.4
	17.2	12.1	8.2	9.0	9.8	10.7	11.5	3.6
	19.4	12.9	6.4	7.2	8.0	8.8	9.7	3.7
	21.7	13.8	4.5	5.4	6.2	7.0	7.8	3.8
37.8	15.0	11.0	9.7	10.5	11.1*	11.4*	11.6*	3.5
	17.2	11.7	8.0	8.8	9.7	10.5	11.3	3.7
	19.4	12.5	6.2	7.1	7.9	8.7	9.5	3.8
	21.7	13.4	4.4	5.2	6.0	6.9	7.7	4.0
40.6	15.0	10.6	9.5	10.4	10.8*	11.1*	11.3*	3.7
	17.2	11.4	7.9	8.7	9.6	10.4	11.2	3.8
	19.4	12.2	6.1	6.9	7.7	8.6	9.4	4.0
	21.7	13.0	4.2	5.1	5.9	6.7	7.6	4.1
46.1	15.0	10.0	9.3	10.0*	10.3*	10.5*	10.7*	4.0
	17.2	10.7	7.6	8.4	9.3	10.1	10.7*	4.1
	19.4	11.4	5.8	6.6	7.4	8.3	9.1	4.3
	21.7	12.1	4.0	4.8	5.6	6.4	7.3	4.4
48.9	15.0	9.6	9.1	9.8*	10.0*	10.2*	10.4*	4.1
	17.2	10.3	7.5	8.3	9.1	10.0	10.4*	4.2
	19.4	11.0	5.7	6.5	7.3	8.1	9.0	4.4
	21.7	11.7	3.8	4.7	5.5	6.3	7.1	4.6

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	2335	3015
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.93	X1.05
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 12.89 KW**  
 AIRFLOW = 2666 CMH  
 COMPRESSOR POWER = 3698 WATTS  
 I.D. FAN POWER = 530 WATTS  
 O.D. FAN POWER = 197 WATTS  
 E.E.R. = 9.45 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 1 1/8 IN. SUCT.  
 AND 3/8 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.



# Performance Data Cooling

## English Units

### TTA050CD WITH TWE050CA5-C AT 1800 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	48.8	39.4	42.5	45.6	48.7	50.0*	3.62	45.8	
	63	52.1	33.2	36.3	39.4	42.5	45.6	3.75	49.8	
	67	55.5	26.3	29.4	32.5	35.6	38.7	3.89	54.1	
	71	59.0	19.3	22.4	25.5	28.6	31.8	4.03	58.4	
90	59	47.6	38.9	42.0	45.1	48.0*	49.0*	3.77	46.2	
	63	50.8	32.7	35.8	38.9	42.0	45.1	3.91	50.2	
	67	54.1	25.8	28.9	32.0	35.1	38.2	4.05	54.5	
	71	57.5	18.8	21.9	25.0	28.1	31.2	4.20	58.8	
95	59	46.4	38.4	41.5	44.6	47.0*	48.0*	3.93	46.6	
	63	49.5	32.2	35.3	38.4	41.5	44.6	4.07	50.6	
	67	52.7	25.3	28.4	31.5	34.6	37.7	4.21	54.9	
	71	56.0	18.3	21.4	24.5	27.6	30.7	4.35	59.2	
100	59	45.1	37.8	40.9	44.0	45.9*	46.8*	4.09	47.0	
	63	48.1	31.6	34.7	37.8	40.9	44.0	4.23	51.0	
	67	51.2	24.7	27.8	30.9	34.0	37.1	4.37	55.3	
	71	54.4	17.7	20.8	23.9	27.0	30.1	4.51	59.7	
105	59	43.8	37.3	40.4	43.5	44.8*	45.7*	4.25	47.4	
	63	46.7	31.0	34.1	37.2	40.3	43.4	4.38	51.4	
	67	49.7	24.2	27.3	30.4	33.5	36.6	4.52	55.7	
	71	52.7	17.2	20.3	23.4	26.5	29.6	4.67	60.1	
115	59	41.2	36.2	39.3	41.6*	42.5*	43.4*	4.57	48.2	
	63	43.8	29.9	33.0	36.1	39.2	42.3	4.70	52.2	
	67	46.6	23.0	26.1	29.2	32.4	35.5	4.84	56.5	
	71	49.4	16.1	19.2	22.3	25.4	28.5	4.98	60.9	
120	59	39.9	35.6	38.7	40.5*	41.4*	42.2*	4.74	48.5	
	63	42.4	29.4	32.5	35.6	38.7	41.8	4.87	52.6	
	67	45.1	22.5	25.6	28.7	31.8	34.9	5.00	56.9	
	71	47.8	15.5	18.6	21.7	24.8	27.9	5.13	61.3	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1525	1975
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.93	X1.04
COMPR. KW	X0.99	X1.01
A.D.P.	-1.7	0.9

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 52500 BTUH**  
AIRFLOW = 1750 CFM  
APP. DEW PT. = 54.6 DEG. F  
COMPRESSOR POWER = 4202 WATTS  
I.D. FAN POWER = 730 WATTS  
O.D. FAN POWER = 202 WATTS  
E.E.R. = 9.75 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 1 1/8  
SUCTION AND 3/8 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

### TTA060CD WITH TWE050CA5-C AT 1800 CFM

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP. DEW PT.	
			72	74	76	78	80			
85	59	57.5	43.6	46.8	49.9	53.0	56.2	4.71	42.6	
	63	61.6	37.4	40.6	43.7	46.9	50.0	4.87	47.0	
	67	65.8	30.6	33.7	36.8	40.0	43.1	5.04	51.1	
	71	70.2	23.5	26.7	29.8	32.9	36.1	5.22	55.4	
90	59	56.2	43.1	46.2	49.3	52.5	55.6	4.90	43.1	
	63	60.2	36.9	40.0	43.1	46.3	49.4	5.06	47.4	
	67	64.3	30.0	33.1	36.2	39.4	42.5	5.23	51.6	
	71	68.6	22.9	26.1	29.2	32.3	35.5	5.40	55.9	
95	59	54.9	42.5	45.6	48.8	51.9	55.0*	5.09	43.9	
	63	58.8	36.3	39.4	42.6	45.7	48.8	5.25	47.8	
	67	62.8	29.4	32.5	35.7	38.8	41.9	5.42	52.0	
	71	66.9	22.3	25.5	28.6	31.8	34.9	5.59	56.3	
100	59	53.5	41.9	45.0	48.2	51.3	54.0*	5.31	44.4	
	63	57.3	35.7	38.8	41.9	45.1	48.2	5.47	48.3	
	67	61.2	28.8	31.9	35.0	38.2	41.3	5.63	52.5	
	71	65.2	21.7	24.9	28.0	31.1	34.3	5.79	56.8	
105	59	52.2	41.3	44.4	47.6	50.7	52.9*	5.53	44.8	
	63	55.8	35.1	38.2	41.3	44.5	47.6	5.68	48.8	
	67	59.6	28.2	31.3	34.4	37.6	40.7	5.84	53.0	
	71	63.5	21.1	24.3	27.4	30.5	33.7	6.00	57.3	
115	59	49.4	40.1	43.2	46.4	49.4*	50.6*	5.98	45.7	
	63	52.8	33.8	37.0	40.1	43.2	46.4	6.12	49.7	
	67	56.4	26.9	30.1	33.2	36.3	39.5	6.26	53.9	
	71	60.0	19.9	23.0	26.2	29.3	32.4	6.41	58.2	
120	59	48.0	39.5	42.6	45.8	48.5*	49.5*	6.21	46.1	
	63	51.4	33.2	36.4	39.5	42.6	45.8	6.34	50.1	
	67	54.8	26.3	29.5	32.6	35.7	38.9	6.47	54.3	
	71	58.3	19.3	22.4	25.6	28.7	31.8	6.61	58.7	

**CORRECTION FACTORS - OTHER AIRFLOWS**  
(MULTIPLY OR ADD AS INDICATED)

AIRFLOW	1525	1975
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.04
COMPR. KW	X0.98	X1.01
A.D.P.	-2.2	1.1

VALUES AT 95/80/67 RATING CONDITIONS

**GROSS CAPACITY = 62500 BTUH**  
AIRFLOW = 1750 CFM  
APP. DEW PT. = 51.7 DEG. F  
COMPRESSOR POWER = 5402 WATTS  
I.D. FAN POWER = 730 WATTS  
O.D. FAN POWER = 386 WATTS  
E.E.R. = 9.15 BTUH/WATT

NOTE: RATED WITH 25 FEET OF 1 1/8  
SUCTION AND 3/8 LIQUID LINE

\* DRY COIL CONDITION (TOTAL CAPACITY =  
SENSIBLE CAPACITY)  
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
VALID ONLY FOR WET COIL  
ALL TEMPERATURES IN DEGREES F.

# Performance Data Cooling

## Metric Units

### TTA050CD WITH TWE050CA5-C AT 3057 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	14.3	11.5	12.5	13.4	14.3	14.6*	3.6
	17.2	15.3	9.7	10.6	11.5	12.5	13.4	3.8
	19.4	16.3	7.7	8.6	9.5	10.4	11.3	3.9
	21.7	17.3	5.7	6.6	7.5	8.4	9.3	4.0
32.2	15.0	13.9	11.4	12.3	13.2	14.1*	14.4*	3.8
	17.2	14.9	9.6	10.5	11.4	12.3	13.2	3.9
	19.4	15.9	7.6	8.5	9.4	10.3	11.2	4.1
	21.7	16.8	5.5	6.4	7.3	8.2	9.1	4.2
35.0	15.0	13.6	11.3	12.2	13.1	13.8*	14.1*	3.9
	17.2	14.5	9.4	10.3	11.3	12.2	13.1	4.1
	19.4	15.4	7.4	8.3	9.2	10.1	11.0	4.2
	21.7	16.4	5.4	6.3	7.2	8.1	9.0	4.3
37.8	15.0	13.2	11.1	12.0	12.9	13.4*	13.7*	4.1
	17.2	14.1	9.3	10.2	11.1	12.0	12.9	4.2
	19.4	15.0	7.2	8.1	9.1	10.0	10.9	4.4
	21.7	15.9	5.2	6.1	7.0	7.9	8.8	4.5
40.6	15.0	12.8	10.9	11.8	12.7	13.1*	13.4*	4.3
	17.2	13.7	9.1	10.0	10.9	11.8	12.7	4.4
	19.4	14.6	7.1	8.0	8.9	9.8	10.7	4.5
	21.7	15.4	5.0	5.9	6.9	7.8	8.7	4.7
46.1	15.0	12.1	10.6	11.5	12.2*	12.5*	12.7*	4.6
	17.2	12.8	8.8	9.7	10.6	11.5	12.4	4.7
	19.4	13.7	6.7	7.6	8.6	9.5	10.4	4.8
	21.7	14.5	4.7	5.6	6.5	7.4	8.4	5.0
48.9	15.0	11.7	10.4	11.3	11.9*	12.1*	12.4*	4.7
	17.2	12.4	8.6	9.5	10.4	11.3	12.2	4.9
	19.4	13.2	6.6	7.5	8.4	9.3	10.2	5.0
	21.7	14.0	4.5	5.4	6.4	7.3	8.2	5.1

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	2590	3354
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.93	X1.04
COMPR. KW	X0.99	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 15.38 KW**  
 AIRFLOW = 2972 CMH  
 COMPRESSOR POWER = 4202 WATTS  
 I.D. FAN POWER = 730 WATTS  
 O.D. FAN POWER = 202 WATTS  
 E.E.R. = 9.75 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 1 1/8 IN. SUCT.  
 AND 3/8 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.

### TTA060CD WITH TWE050CA5-C AT 3057 CMH

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW
			22.2	23.3	24.4	25.6	26.7	
29.4	15.0	16.8	12.8	13.7	14.6	15.5	16.5	4.7
	17.2	18.0	11.0	11.9	12.8	13.7	14.6	4.9
	19.4	19.3	9.0	9.9	10.8	11.7	12.6	5.0
	21.7	20.6	6.9	7.8	8.7	9.6	10.6	5.2
32.2	15.0	16.5	12.6	13.5	14.4	15.4	16.3	4.9
	17.2	17.6	10.8	11.7	12.6	13.6	14.5	5.1
	19.4	18.8	8.8	9.7	10.6	11.5	12.5	5.2
	21.7	20.1	6.7	7.6	8.6	9.5	10.4	5.4
35.0	15.0	16.1	12.5	13.4	14.3	15.2	16.1*	5.1
	17.2	17.2	10.6	11.5	12.5	13.4	14.3	5.3
	19.4	18.4	8.6	9.5	10.5	11.4	12.3	5.4
	21.7	19.6	6.5	7.5	8.4	9.3	10.2	5.6
37.8	15.0	15.7	12.3	13.2	14.1	15.0	15.8*	5.3
	17.2	16.8	10.5	11.4	12.3	13.2	14.1	5.5
	19.4	17.9	8.4	9.3	10.3	11.2	12.1	5.6
	21.7	19.1	6.4	7.3	8.2	9.1	10.0	5.8
40.6	15.0	15.3	12.1	13.0	13.9	14.9	15.5*	5.5
	17.2	16.3	10.3	11.2	12.1	13.0	13.9	5.7
	19.4	17.5	8.3	9.2	10.1	11.0	11.9	5.8
	21.7	18.6	6.2	7.1	8.0	8.9	9.9	6.0
46.1	15.0	14.5	11.7	12.7	13.6	14.5*	14.8*	6.0
	17.2	15.5	9.9	10.8	11.7	12.7	13.6	6.1
	19.4	16.5	7.9	8.8	9.7	10.6	11.6	6.3
	21.7	17.6	5.8	6.7	7.7	8.6	9.5	6.4
48.9	15.0	14.1	11.6	12.5	13.4	14.2*	14.5*	6.2
	17.2	15.1	9.7	10.7	11.6	12.5	13.4	6.3
	19.4	16.1	7.7	8.6	9.6	10.5	11.4	6.5
	21.7	17.1	5.7	6.6	7.5	8.4	9.3	6.6

#### CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)

AIRFLOW	2590	3354
TOTAL CAP.	X0.98	X1.01
SENS. CAP.	X0.94	X1.04
COMPR. KW	X0.98	X1.01

#### VALUES AT ARI RATING CONDITIONS

**GROSS CAPACITY = 18.31 KW**  
 AIRFLOW = 2972 CMH  
 COMPRESSOR POWER = 5402 WATTS  
 I.D. FAN POWER = 730 WATTS  
 O.D. FAN POWER = 386 WATTS  
 E.E.R. = 9.15 BTUH/WATT

NOTE: RATED WITH 7.62 METERS OF 1 1/8 IN. SUCT.  
 AND 3/8 IN. LIQUID LINES

\* DRY COIL CONDITION (TOTAL CAPACITY =  
 SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE  
 VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES C.



# Performance Data

## Evaporator Fan Performance

### Blower Performance — TWE030CA40B — Wet Coil

EXTERNAL STATIC PRESSURE INCHES OF WATER (PASCALS)								
UPFLOW & DOWNFLOW (See Notes)					HORIZONTAL; NO FILTER (See Notes)			
220 VOLTS					220 VOLTS			
CFM	CMH	HI	MED	LO	HI	MED	LO	
600	1018.8			0.72 (179.4)			0.71 (176.9)	
650	1103.7			0.62 (154.4)			0.61 (152.0)	
700	1188.6		0.86 (214.2)	0.51 (127.0)		0.84 (209.2)	0.50 (124.6)	
750	1273.5		0.75 (186.8)	0.40 (99.6)		0.72 (179.4)	0.39 (97.1)	
800	1358.4	0.89 (221.7)	0.65 (161.9)	0.29 (72.2)	0.87 (216.7)	0.62 (154.4)	0.28 (69.7)	
850	1443.3	0.81 (201.8)	0.54 (134.5)	0.18 (44.8)	0.79 (196.8)	0.51 (127.0)	0.17 (42.3)	
900	1528.2	0.72 (179.4)	0.43 (107.1)	0.06 (14.9)	0.69 (171.9)	0.40 (99.6)	0.08 (19.9)	
950	1613.1	0.63 (156.9)	0.32 (79.7)		0.61 (152.0)	0.30 (74.7)		
1000	1698.0	0.53 (132.0)	0.21 (52.3)		0.51 (127.0)	0.17 (42.3)		
1050	1782.9	0.42 (104.6)	0.10 (24.9)		0.40 (99.6)	0.02 (5.0)		
1100	1867.8	0.31 (77.2)			0.31 (77.2)			
1150	1952.7	0.20 (49.8)			0.22 (54.8)			
1200	2037.6	0.08 (19.9)			0.10 (24.9)			

#### NOTES:

**Vertical:** With filter, no horizontal drip tray. Subtract 0.06" W.G. (15) for downflow.

**Horizontal:** As shipped, but without filter. Subtract 0.05" W.G. (12.5) for horizontal left.

### Blower Performance — TWE040CA40C — Wet Coil

EXTERNAL STATIC PRESSURE INCHES OF WATER (PASCALS)								
UPFLOW & DOWNFLOW (See Notes)					HORIZONTAL; NO FILTER (See Notes)			
220 VOLTS					220 VOLTS			
CFM	CMH	HI	MED	LO	HI	MED	LO	
700	1188.6		0.58 (144.5)					
750	1273.5		0.61 (152.0)	0.55 (137.0)				
800	1358.4	0.61 (152.0)	0.58 (144.5)	0.52 (129.5)			0.58 (144.5)	
850	1443.3	0.57 (142.0)	0.54 (134.5)	0.48 (119.6)			0.52 (129.5)	
900	1528.2	0.53 (132.0)	0.51 (127.0)	0.44 (109.6)			0.49 (122.1)	
950	1613.1	0.49 (122.1)	0.47 (117.1)	0.40 (99.6)		0.57 (142.0)	0.45 (112.1)	
1000	1698.0	0.45 (112.1)	0.43 (107.1)	0.34 (84.7)	0.53 (132.0)	0.50 (124.6)	0.40 (99.6)	
1050	1782.9	0.40 (99.6)	0.38 (94.7)	0.28 (69.7)	0.48 (119.6)	0.45 (112.1)	0.35 (87.2)	
1100	1867.8	0.36 (89.7)	0.34 (84.7)	0.22 (54.8)	0.43 (107.1)	0.40 (99.6)	0.30 (74.7)	
1150	1952.7	0.31 (77.2)	0.29 (72.2)	0.15 (37.4)	0.39 (97.1)	0.37 (92.2)	0.22 (54.8)	
1200	2037.6	0.26 (64.8)	0.24 (59.8)	0.08 (19.9)	0.35 (87.2)	0.32 (79.7)	0.17 (42.3)	
1250	2122.5	0.21 (52.3)	0.18 (44.8)	0.00 (0.0)	0.31 (77.2)	0.28 (69.7)	0.10 (24.9)	
1300	2207.4	0.17 (42.3)	0.13 (32.4)	0.26 (64.8)	0.22 (54.8)	0.01 (2.5)		
1350	2292.3	0.11 (27.4)	0.07 (17.4)		0.21 (52.3)	0.18 (44.8)		
1400	2377.2	0.06 (14.9)	0.01 (2.5)		0.15 (37.4)	0.12 (29.9)		
1450	2462.1	0.01 (2.5)			0.11 (27.4)	0.08 (19.9)		
1500	2547.0	0.00			0.05 (12.5)	0.02 (5.0)		

#### NOTES:

**Vertical:** With filter, no horizontal drip tray. Small apex baffle. Subtract 0.06" W.G. (15) for downflow.

**Horizontal:** As shipped, but without filter. Subtract 0.05" W.G. (12.5) for horizontal left.

# Performance Data

## Evaporator Fan Performance

### Blower Performance — TWE050CA50D — Wet Coil

EXTERNAL STATIC PRESSURE INCHES OF WATER (PASCALS)								
UPFLOW & DOWNFLOW (See Notes)					HORIZONTAL; NO FILTER (See Notes)			
220 VOLTS					220 VOLTS			
CFM	CMH	HI	MED	LO	HI	MED	LO	
900	1528.2							
950	1613.1			0.63 (156.9)				
1000	1698.0			0.61 (152.0)			0.62 (154.4)	
1050	1782.9			0.58 (144.5)			0.60 (149.5)	
1100	1867.8			0.54 (134.5)			0.57 (142.0)	
1150	1952.7			0.50 (124.6)			0.53 (132.0)	
1200	2037.6			0.45 (112.1)			0.49 (122.1)	
1250	2122.5		0.61 (152.0)	0.39 (97.1)		0.64 (159.4)	0.44 (109.6)	
1300	2207.4	0.59 (147.0)	0.57 (142.0)	0.33 (82.2)	0.62 (154.4)	0.61 (152.0)	0.38 (94.7)	
1350	2292.3	0.56 (139.5)	0.53 (132.0)	0.26 (64.8)	0.59 (147.0)	0.58 (144.5)	0.32 (79.7)	
1400	2377.2	0.52 (129.5)	0.49 (122.1)	0.18 (44.8)	0.56 (139.5)	0.55 (137.0)	0.25 (62.3)	
1450	2462.1	0.48 (119.6)	0.45 (112.1)	0.10 (24.9)	0.52 (129.5)	0.52 (129.5)	0.18 (44.8)	
1500	2547.0	0.44 (109.6)	0.40 (99.6)	0.01 (2.5)	0.49 (122.1)	0.48 (119.6)	0.11 (27.4)	
1550	2631.9	0.40 (99.6)	0.35 (87.2)		0.47 (117.1)	0.44 (109.6)	0.00 (0.0)	
1600	2716.8	0.35 (87.2)	0.30 (74.7)		0.45 (112.1)	0.40 (99.6)		
1650	2801.7	0.31 (77.2)	0.25 (62.3)		0.41 (102.1)	0.35 (87.2)		
1700	2886.6	0.26 (64.8)	0.20 (49.8)		0.36 (89.7)	0.28 (69.7)		
1750	2971.5	0.21 (52.3)	0.14 (34.9)		0.30 (74.7)	0.20 (49.8)		
1800	3056.4	0.16 (39.9)	0.08 (19.9)		0.24 (59.8)	0.13 (32.4)		
1850	3141.3	0.11 (27.4)	0.02 (5.0)		0.17 (42.3)	0.07 (17.4)		
1900	3226.2	0.05 (12.5)			0.10 (24.9)	0.01 (2.5)		
1950	3311.1				0.02 (5.0)			

#### NOTES:

**Vertical:** With filter, no horizontal drip tray. Small apex baffle. Subtract 0.06" W.G. (15) for downflow.

**Horizontal:** As shipped, but without filter. Subtract 0.05" W.G. (12.5) for horizontal left.



# Performance Data

## Air Pressure Drop (Inches) - Electric Heaters

### Pressure Drop For Electric Heaters In Air Handler Models

		NUMBER OF RACKS									
		1		2		3		4		5	
AIRFLOW CFM	AIRFLOW CMH	AIR PRESSURE DROP IN. W.G. (PASCALS)									
600	1018.8	0.01	(2.5)	0.02	(5.0)	0.02	(5.0)				
700	1188.6	0.01	(2.5)	0.02	(5.0)	0.02	(5.0)				
800	1358.4	0.02	(5.0)	0.03	(7.5)	0.03	(7.5)	0.04	(10.0)		
900	1528.2	0.03	(7.5)	0.03	(7.5)	0.04	(10.0)	0.05	(12.5)		
1000	1698.0	0.04	(10.0)	0.04	(10.0)	0.05	(12.5)	0.06	(14.9)		
1100	1867.8	0.04	(10.0)	0.05	(12.5)	0.06	(14.9)	0.07	(17.4)	0.08	(19.9)
1200	2037.6	0.05	(12.5)	0.06	(14.9)	0.07	(17.4)	0.08	(19.9)	0.09	(22.4)
1300	2207.4	0.06	(14.9)	0.07	(17.4)	0.08	(19.9)	0.09	(22.4)	0.11	(27.4)
1400	2377.2	0.07	(17.4)	0.08	(19.9)	0.10	(24.9)	0.11	(27.4)	0.13	(32.4)
1500	2547.0	0.08	(19.9)	0.09	(22.4)	0.11	(27.4)	0.13	(32.4)	0.15	(37.4)
1600	2716.8	0.09	(22.4)	0.10	(24.9)	0.12	(29.9)	0.15	(37.4)	0.17	(42.3)
1700	2886.6	0.10	(24.9)	0.11	(27.4)	0.14	(34.9)	0.17	(42.3)	0.19	(47.3)
1800	3056.4	0.11	(27.4)	0.13	(32.4)	0.16	(39.9)	0.19	(47.3)	0.21	(52.3)
1900	3226.2	0.13	(32.4)	0.15	(37.4)	0.18	(44.8)	0.21	(52.3)	0.23	(57.3)
2000	3396.0	0.14	(34.9)	0.17	(42.3)	0.20	(49.8)	0.23	(57.3)	0.26	(64.8)

#### 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.

HEATER RACKS	
HEATER MODEL NO.	NO. OF RACKS
BAY96X1405	1
BAY96X1406	2
BAY96X1408	2
BAY96X1410	2
BAY96X1411	3
BAY96X1415	3
BAY96X1419	4
BAY96X1421	4
BAY96X1426	5
BAY96X3411	3
BAY96X3415	3

# Supplementary Heaters

THESE AIR HANDLERS ARE CONVERTIBLE AND MOTOR SPEED TAPS VARY BY THE UNIT ORIENTATION.

## **TWE030C-Heater Model Number BAY96X**

Unit Position	Application	1405 4.0 KW	1406 4.8 KW	1408,F 6.4 KW	1410,F 8.0 KW	1410A 8.8 KW	1411 8.8 KW	1411A 8.8 KW	1415 12.8 KW	1419 16.0 KW	1421 17.6 KW	3411 8.8 KW	3415 12.8 KW
Vertical	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Upflow	Heat Pump	L	L	L	L	L	L	L	L	M	M	L	L
Vertical	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Downflow	Heat Pump	L	L	L	L	L	L	L	L	H	H	L	H
Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Left	Heat Pump	L	L	L	L	L	L	L	L	M	M	L	L
Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Right	Heat Pump	L	L	L	L	L	L	L	L	H	H	L	L

(L) Low, (M) Medium, (H) High indicate minimum heating speed setting for blower/motor operation. 1414 and 1426 not approved for this model.

## **TWE040C-Heater Model Number BAY96X**

Unit Position	Application	1405 4.0 KW	1406 4.8 KW	1408,F 6.4 KW	1410,F 8.0 KW	1410A 8.8 KW	1411 8.8 KW	1411A 8.8 KW	1415 12.8 KW	1419 16.0 KW	1421 17.6 KW	3411 8.8 KW	3415 12.8 KW
Vertical	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Upflow	Heat Pump	L	L	L	L	L	M	M	H	H	H	M	M
Vertical	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Downflow	Heat Pump	L	L	L	L	L	L	L	H	H	H	L	L
Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Left	Heat Pump	L	L	L	L	L	L	L	H	H	H	L	L
Horizontal	A/C or Elec. Furnace	L	L	L	L	L	L	L	L	L	L	L	L
Right	Heat Pump	L	L	L	L	L	L	L	H	H	H	L	L

(L) Low, (M) Medium, (H) High indicate minimum heating speed setting for blower/motor operation. 1414 not approved for this model.

## **TWE050C-Heater Model Number BAY96X**

Unit Position	Application	1405 4.0 KW	1406 4.8 KW	1408,F 6.4 KW	1410,F 8.0 KW	1410A 8.8 KW	1415 12.8 KW	1419 16.0 KW	1421 17.6 KW	1426 21.6 KW	3415 12.8 KW
Vertical	A/C or Elec. Furnace	—	—	L	L	L	L	L	L	L	L
Upflow	Heat Pump	L	L	L	L	L	L	M	M	H	L
Vertical	A/C or Elec. Furnace	—	—	L	L	L	L	L	L	L	L
Downflow	Heat Pump	L	L	L	L	L	L	H	H	H	L
Horizontal	A/C or Elec. Furnace	—	—	L	L	L	L	L	L	L	L
Left	Heat Pump	L	L	L	L	L	L	H	H	H	L
Horizontal	A/C or Elec. Furnace	—	—	L	L	L	L	L	L	L	L
Right	Heat Pump	L	L	L	L	L	L	M	M	H	L

(L) Low, (M) Medium, (H) High indicate minimum heating speed setting for blower/motor operation. 14141,A and 1414 not approved for this model.

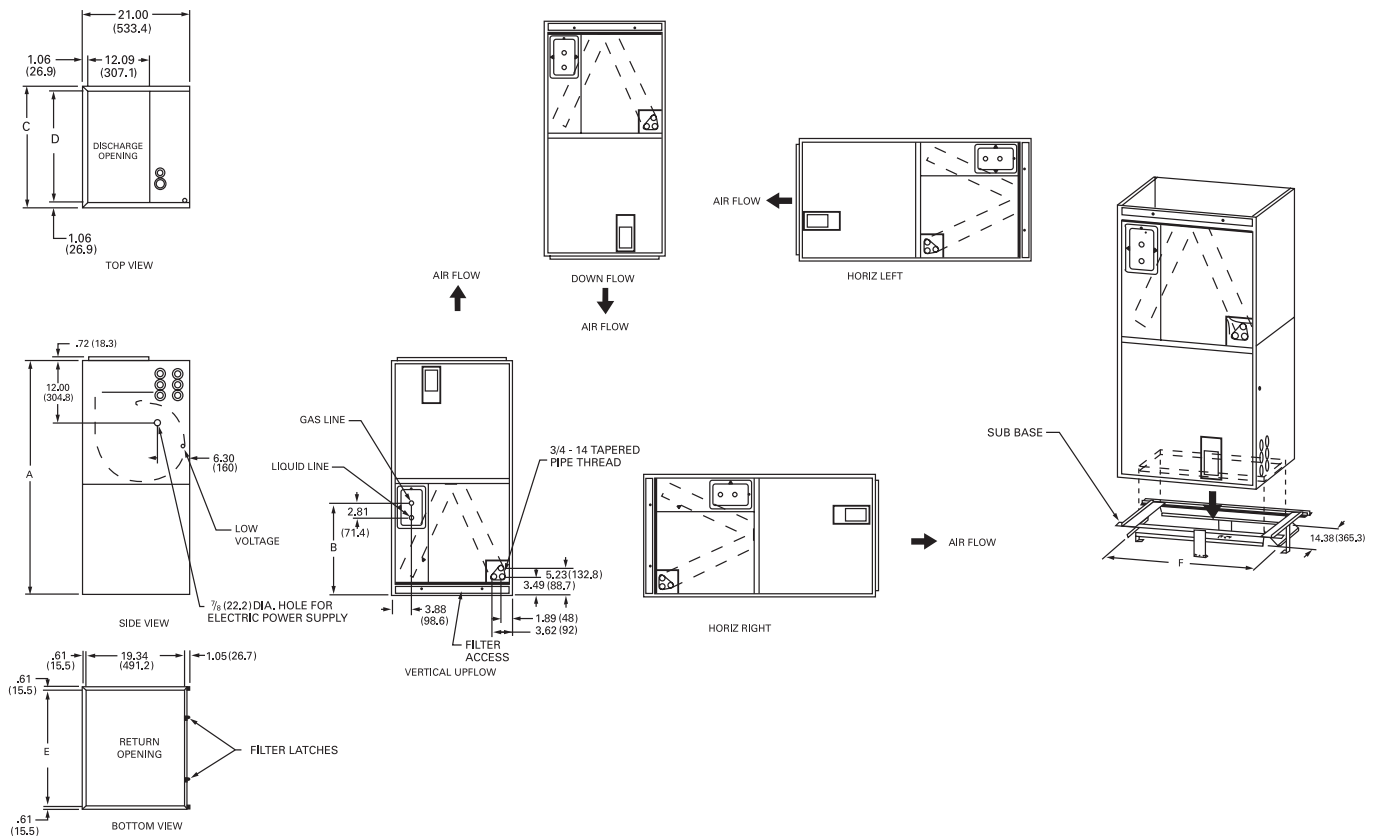




# Dimensions

## TWE030-050C Outline Drawing

ALL DIMENSIONS ARE IN INCHES (MM)



MINIMUM UNIT CLEARANCE SALE			
	TO COMBUSTIBLE MATERIAL (REQUIRED)		SERVICE CLEARANCE (RECOMMENDED)
SIDES	0	(0)	2 (50.8)
FRONT	0	(0)	21 (533.4)
BACK	0	(0)	0 (0)
INLET DUCT	0	(0)	1 (25.4)
OUTLET DUCT	1	(25.4)	

MODEL NO.	A	B	C	D	E	F	FLOW CONTROL
TWE030CA4	43.00 (1092.2)	15.57 (395.5)	21.50 (761.1)	19.50 (495.3)	20.28 (515.1)	21.63 (549.4)	FCCV
TWE040CA4	51.75 (1134.5)	24.32 (617.7)	23.50 (596.9)	21.50 (761.1)	22.28 (565.9)	23.63 (600.2)	FCCV
TWE050CA5	57.90 (1470.7)	30.47 (773.9)	23.50 (596.9)	21.50 (761.1)	22.28 (565.9)	23.63 (600.2)	TXV

# Dimensions

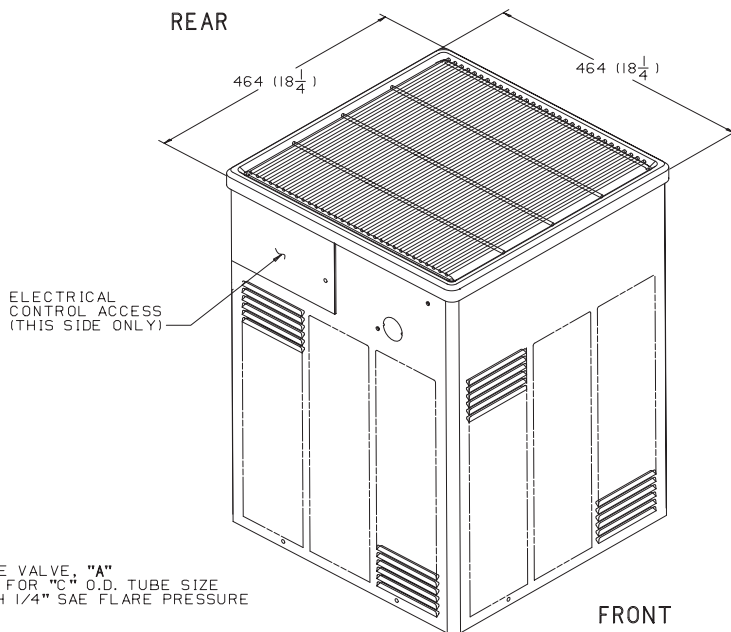
## TTB520CA Outline Drawing

All dimensions are in inches (mm)

1 INCH = (25.40 MILLIMETERS)

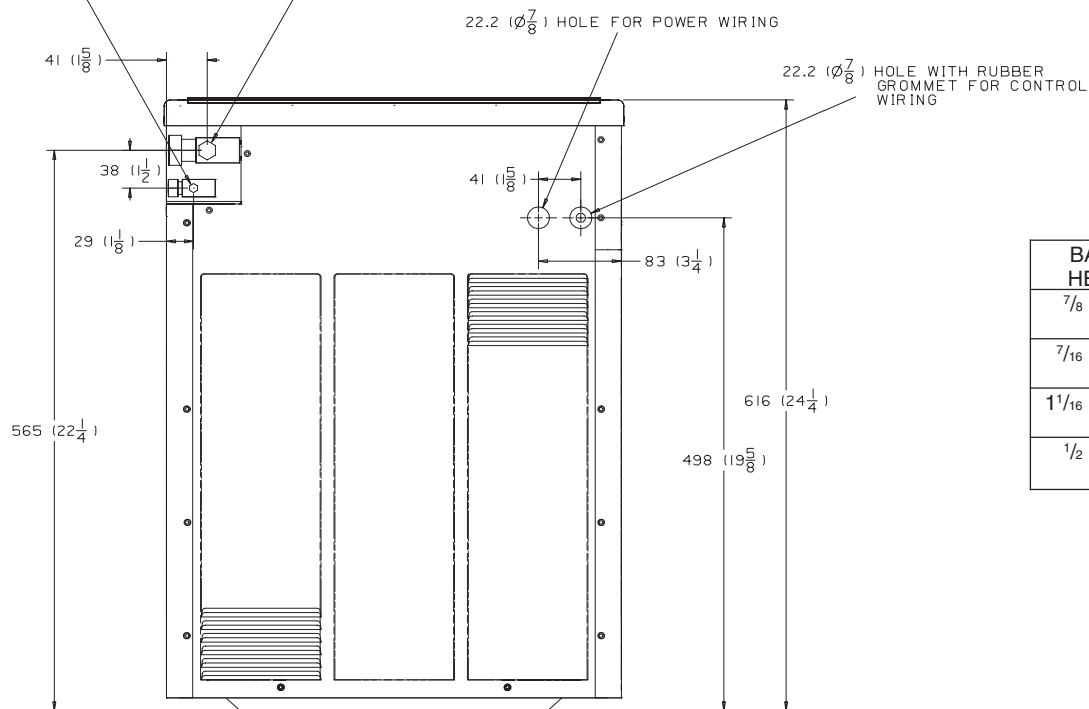
PT. NO.	A	B	C	D
P02	1 <sup>1</sup> / <sub>16</sub> 14 UNS-2A	1 <sup>1</sup> / <sub>2</sub> 20UNF-2A	3 <sup>3</sup> / <sub>4</sub> (19)	5 <sup>5</sup> / <sub>16</sub> (8)

FLARE NUT TORQUE		
APPLIED TUBE SIZE	TORQUE FT-LBS (NEWTON METERS)	
	MINIMUM	MAXIMUM
1 <sup>1</sup> / <sub>4</sub> (6.35)	8 (11.0)	10 (14.0)
5 <sup>5</sup> / <sub>16</sub> (7.94)	10 (14.0)	15 (20.0)
3 <sup>3</sup> / <sub>8</sub> (9.52)	15 (20.0)	25 (34.0)
1 <sup>1</sup> / <sub>2</sub> (12.70)	25 (34.0)	35 (47.0)
5 <sup>5</sup> / <sub>8</sub> (15.88)	40 (54.0)	55 (75.0)
3 <sup>3</sup> / <sub>4</sub> (19.05)	50 (68.0)	60 (81.0)



LIQUID LINE SERVICE VALVE, "B"  
SAE MALE FLARE FOR "D" O.D. TUBE SIZE  
CONNECTION WITH 1/4" SAE FLARE PRESSURE  
TAP FITTING.

GAS LINE SERVICE VALVE, "A"  
SAE MALE FLARE FOR "C" O.D. TUBE SIZE  
CONNECTION WITH 1/4" SAE FLARE PRESSURE  
TAP FITTING.



REAR VIEW

BACK-UP HEX SIZE
7 <sup>7</sup> / <sub>8</sub> - 14 = 7 <sup>7</sup> / <sub>8</sub> (22)
7 <sup>7</sup> / <sub>16</sub> - 20 = 7 <sup>7</sup> / <sub>16</sub> (11)
1 <sup>1</sup> / <sub>16</sub> - 14 = 1 <sup>1</sup> / <sub>16</sub> (27)
1 <sup>1</sup> / <sub>2</sub> - 20 = 1 <sup>1</sup> / <sub>2</sub> (13)

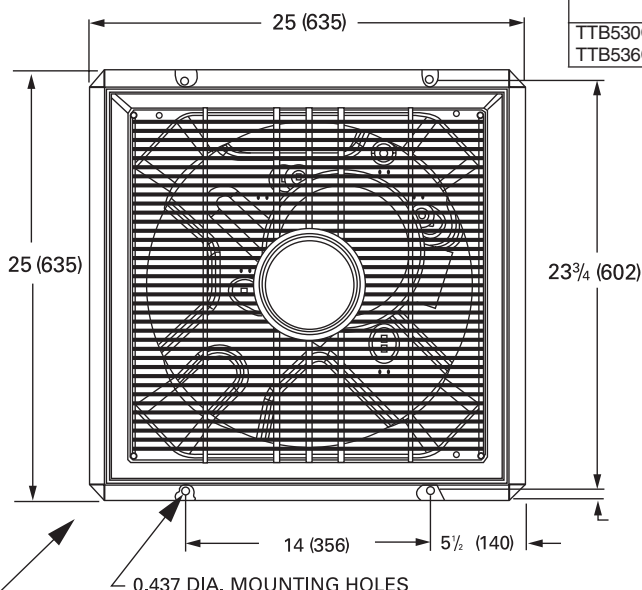
# Dimensions

## TTB524-536CA Outline Drawing

All dimensions are in inches (mm)

1 INCH = (25.40 MILLIMETERS)

PT. NO.	CABINET SIZE	A	B	C	D	E
TTB524CA	25A	25 <sup>1</sup> / <sub>2</sub> (648)	1 <sup>1</sup> / <sub>16</sub> 14 UNS-2A	<sup>1</sup> / <sub>2</sub> 20UNF-2A	<sup>3</sup> / <sub>4</sub> (19)	<sup>5</sup> / <sub>16</sub> (8)
TTB530CA/ TTB536CA	25C	32 <sup>1</sup> / <sub>2</sub> (826)	1 <sup>1</sup> / <sub>16</sub> 14 UNS-2A	<sup>1</sup> / <sub>2</sub> 20UNF-2A	<sup>3</sup> / <sub>4</sub> (19)	<sup>5</sup> / <sub>16</sub> (8)

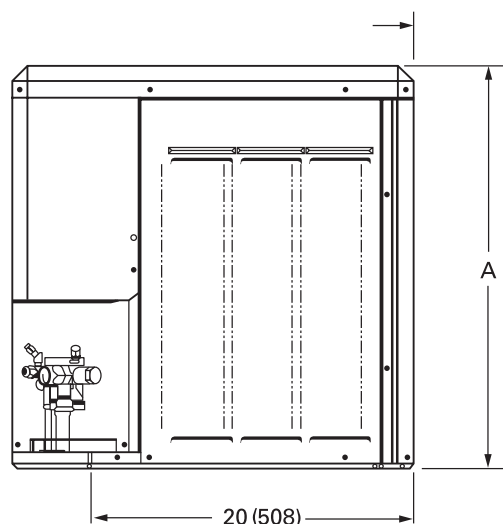
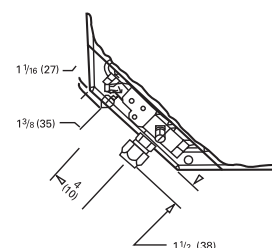


**DETAIL X**  
SERVICE PANEL  
ELECTRICAL AND REFRIGERANT  
COMPONENTS CLEARANCES  
PER PREVAILING CODES

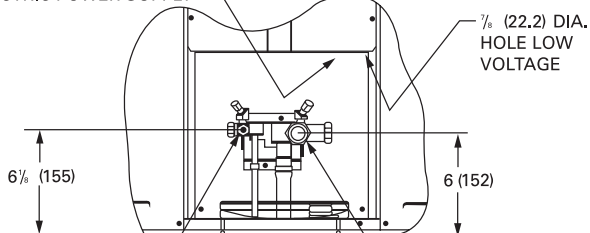
FLARE NUT TORQUE		
	TORQUE FT-LBS (NEWTON METERS)	
APPLIED TUBE SIZE	MINIMUM	MAXIMUM
<sup>1</sup> / <sub>4</sub> (6.35)	8 (11.0)	10 (14.0)
<sup>5</sup> / <sub>16</sub> (7.94)	10 (14.0)	15 (20.0)
<sup>3</sup> / <sub>8</sub> (9.52)	15 (20.0)	25 (34.0)
<sup>1</sup> / <sub>2</sub> (12.70)	25 (34.0)	35 (47.0)
<sup>5</sup> / <sub>8</sub> (15.88)	40 (54.0)	55 (75.0)
<sup>3</sup> / <sub>4</sub> (19.05)	50 (68.0)	60 (81.0)

BACK-UP HEX SIZE
1 <sup>1</sup> / <sub>16</sub> - 14 = 1 <sup>1</sup> / <sub>16</sub> (27)
1 <sup>1</sup> / <sub>2</sub> - 20 = 1 <sup>1</sup> / <sub>2</sub> (13)

TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 5 FEET (1524) ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT AND SHOULD BE AT LEAST 12" (305) FROM WALL AND ALL SURROUNDING SHRUBBERY ON TWO SIDES. OTHER TWO SIDES UNRESTRICTED.



1<sup>1</sup>/<sub>8</sub> (28.6) DIA. K.O. WITH  
<sup>1</sup>/<sub>8</sub> (22.2) DIA. HOLE  
ELECTRIC POWER SUPPLY



LIQUID LINE SERVICE VALVE **DETAIL X** GAS LINE SERVICE VALVE

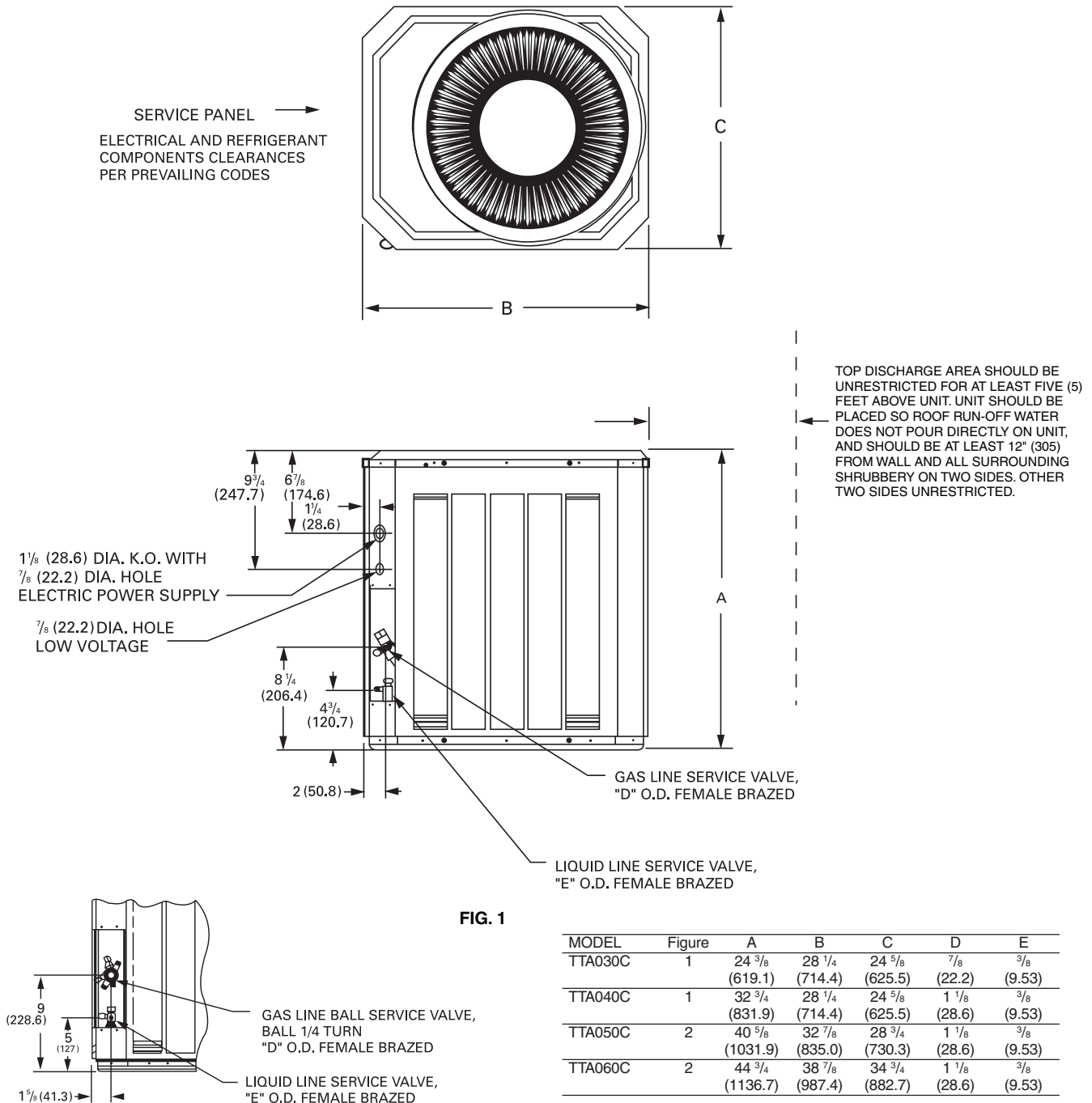
"C" SAE MALE FLARE FOR "E" O.D. TUBE SIZE  
CONNECTION WITH 1/4" SAE FLARE  
PRESSURE TAP FITTING.

"B" SAE MALE FLARE FOR "D" O.D. TUBE SIZE  
CONNECTION WITH 1/4" SAE FLARE  
PRESSURE TAP FITTING.

# Dimensions

## TTA030-060C Outline Drawing

All dimensions are in inches (mm)



# Convertibility

## TWE030 Through 050 Convertibility

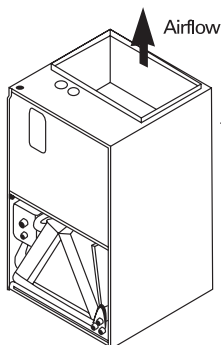
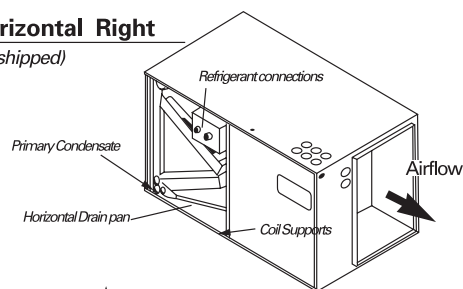
### Six (6) Way Convertibility

#### One Unit - 4 Applications

(Conversion 1-4)

##### Horizontal Right

(as shipped)



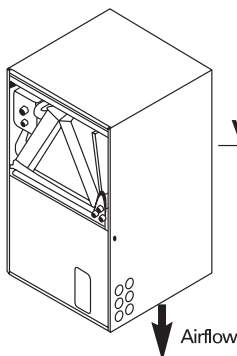
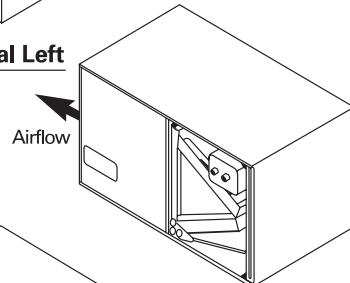
##### Vertical Upflow

(as shipped)

**One-Step Conversion**  
Stand unit on end

##### Horizontal Left

Rotate Coil

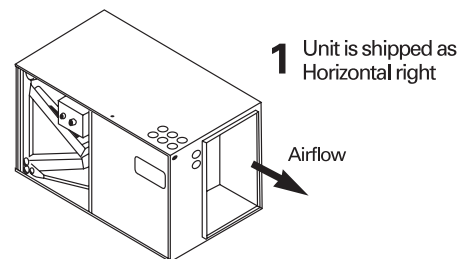


##### Vertical Downflow

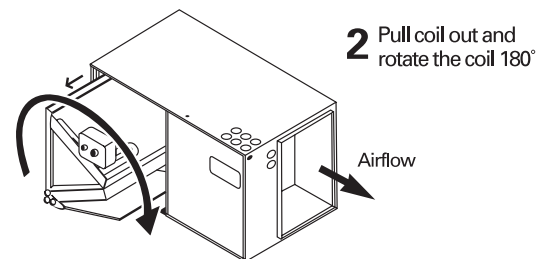
**One-Step Conversion**  
from Horizontal left

#### Easy Conversion to Opposite Side Access

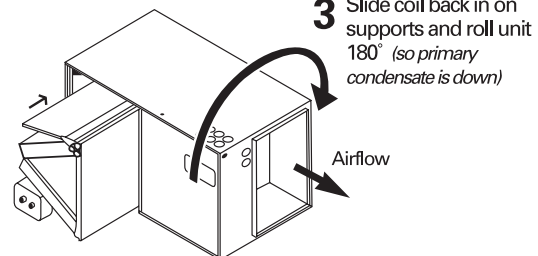
(Conversion 5 & 6)



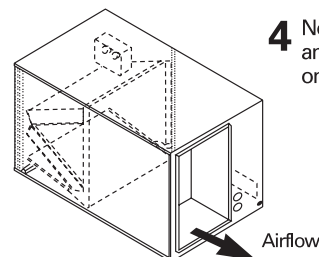
**1** Unit is shipped as Horizontal right



**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 Conditions 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)



# Mechanical Specification Options

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## 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.

This new line of TWE-C air handlers provides exclusive compact size combined with simple four-way convertibility in three sizes. 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 four-way convertibility provides you inventory benefits and service/installation flexibility. The simple conversion provides opposite side access for installation and service.

## Casing

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

## Refrigerant Circuits

The TWE units shall have a single refrigerant circuit. TWE03-040C refrigerant circuit shall be controlled by a flow control check valve (FCCV). The TWE050C refrigerant circuit shall be controlled by a factory-installed thermal expansion valve.

## Coil

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

## Fan

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

## Controls

Fan contactor, and plug-in module for accessory electric heat control shall be included. TWE models shall also include check valves.

## Filters

Filters shall be included as standard.

## 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 internal compartment.



## Notes

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