



ODYSSEY

Product Catalogue

Light Commercial

Split System 5-20 Tons

TTA/TTH/TWE Models 50 Hz



Condensing Models

TTK 060 KD
TTA 075 RD
TTA 100 RD
TTA 120 RD
TTA 150 RD
TTA 180 RD
TTA 200 RD
TTA 240 RD

Air Handling Models

TTH 060 BD
TTH 075 BD
TTH 100 BD
TWE 120 CD
TWE 160 CD
TWE 180 CD
TWE 210 CD
TWE 240 CD

Oct 2007

SSA5-PRC 002-EN

Features and Benefits

Feature and Benefits



TTK060KD



TTA075-120RD



TTA150-240RD



TTH060-100BD



TWE120-240CD

TTA Condensing Units

Features

- Powder paint finish.
- Innovative cabinet design.
- Refrigerant accessories as standard.
- Single and dual compressors

Optional

- Copper fin / Blue fin.
- Manifolding single circuit (for TTA150-240RD).

Benefits

- Full covering of all edges and a uniform paint finish for a smooth, attractive and durable cabinet exterior.
- The most attractive light commercial condensing unit available.
- Each unit ships standard with the service valves, hi-low pressure controls, liquid line filter drier.
- Optimized operation and reduced service time.
- Designed to provide corrosion protection on sea coast application.
- More efficiency at part load.

TTH/TWE Air Handler Units

Features

- 500 mm in height (TTH060-100).
- Excellent drain pan.
- Belt drive.
- Factory installed mounting channel (TTH060-100).
- Quiet operation.
- Convertible for horizontal or vertical configuration (TWE120-240).
- Thermal expansion valve.

Optional

- Discharge Plenum.
- Return air grille (for TWE model only).
- High static motor.

Benefits

- Designed to fit easily into tight ceiling spaces.
- Specially designed drain pan with a deep pitch to catch and drain water safely away.
- Fully adjustable airflow for application versatility and ease of servicing.
- Supports the unit from below, and saves time and money for the installer.
- Well-insulated cabinet with fire retardant Polyethylene and wide forward curved fans provide quiet operation.
- Maximum application flexibility without the extra inventory of dedicated models.
- For maximum application flexibility and performance, capacity modulation provides improved comfort and backup in the event of a malfunction with one circuit.
- Designed for free blow application.
- For high static pressure applications.

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System Performance

System Performance Matrix

Model		Evaporator cfm	Total Capacity MBH	Sensible Capacity MBH
Outdoor	Indoor			
TTK060KD	TTH060BD	1,600	57	36
		2,000	60	39
		2,400	62	42
TTA075RD	TTH075BD	2,000	72	45
		2,500	75	49
		3,000	78	52
TTA100RD	TTH100BD	2,700	97	63
		3,400	101	69
		4,100	104	73
TTA120RD	TWE120CD	3,200	116	76
		4,000	121	83
		4,800	125	89
TTA150RD	TWE160CD	4,300	151	107
		5,300	156	118
		6,300	162	125
TTA180RD	TWE180CD	4,800	173	112
		6,000	181	122
		7,200	187	132
TTA200RD	TWE210CD	5,600	198	139
		7,000	205	154
		8,400	212	164
TTA240RD	TWE240CD	6,400	230	142
		8,000	243	153
		9,600	253	163

Model Nomenclature

Condensing Unit Model Nomenclature

TTK 060 K D 00 E A

TTK = Cooling Only (Horizontal Discharge)

Nominal Capacity (MBh)
060 = 60 MBh

Service Digit

Minor Design Sequence

Factory Installed Options

00 = Std. efficiency w/o expansion device

0E = Std. efficiency with expansion device

Electrical Characteristics

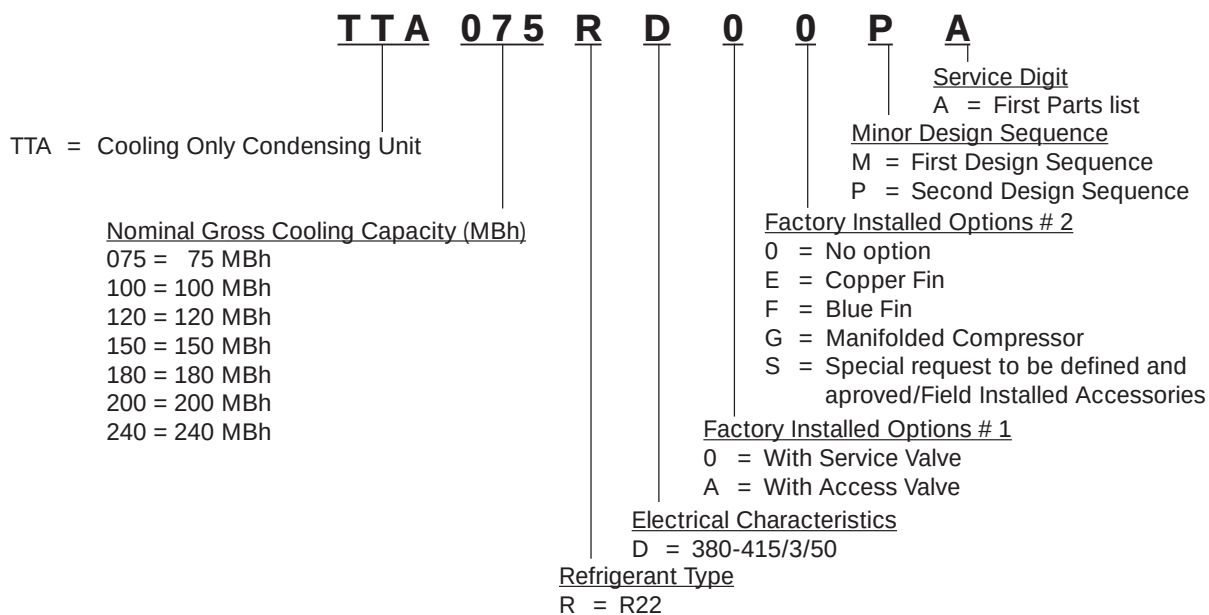
D = 380-415/3/50

Compressor

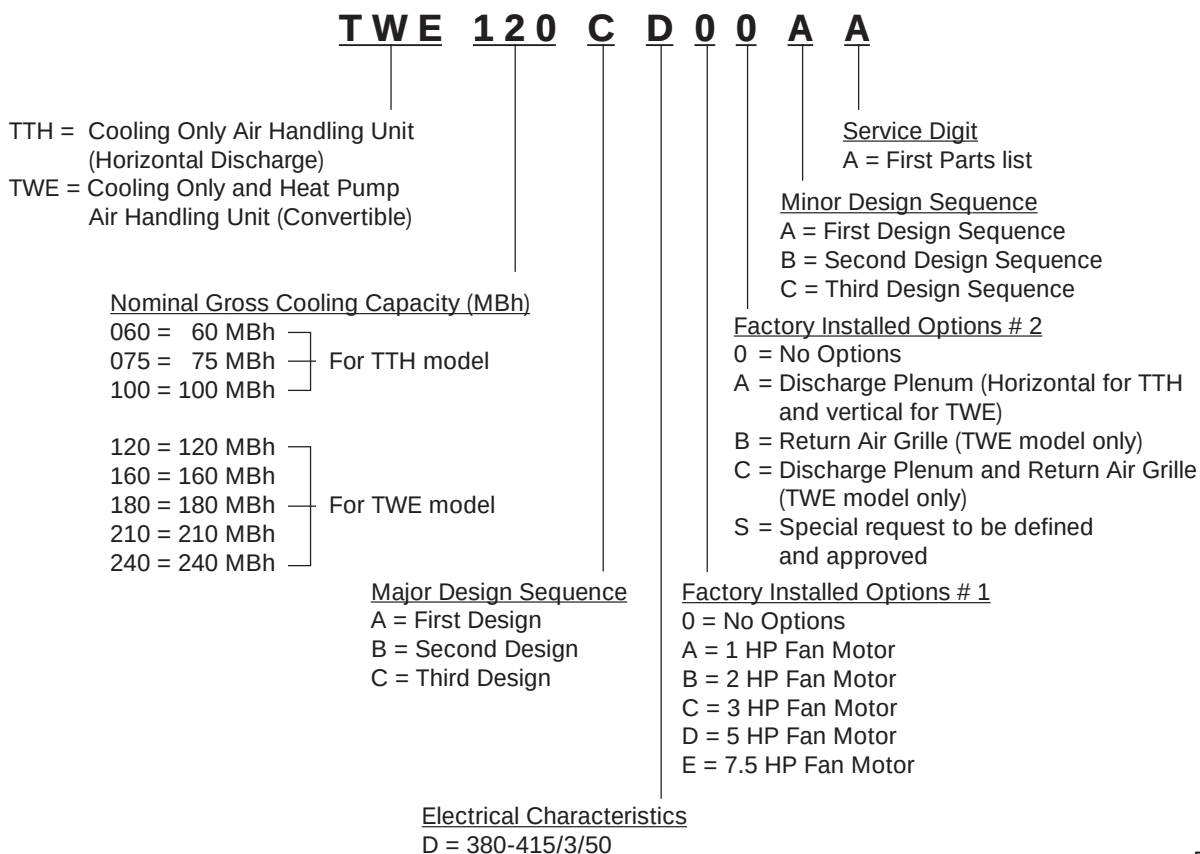
K = Single Split, Horizontal Discharge

Model Nomenclature

Condensing Unit Model Nomenclature



Air Handling Unit Model Nomenclature



General Data

General Data - Condensing Units

UNIT MODELS		TTK060KD	TTA075RD	TTA100RD	TTA120RD
POWER CONNECTION	V/ph/Hz	380-415/3/50			
MCA¹	A	11.97	18.06	27.29	29.83
SYSTEM DATA					
No. Refrigerant Circuits		1	1	1	1
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE
Refrigerant ²		R22			
Suction Line OD ³	in (mm)	1 1/8 (28.6)	1 1/8 (28.6)	1 3/8 (34.9)	1 3/8 (34.9)
Liquid line OD ³	in (mm)	3/8 (9.5)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
COMPRESSOR					
Compressor Type		Hermetic Scroll			
No. Used		1	1	1	1
V/ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50
RLA/LRA		8.8/77.0	13.6 / 98	20.7 / 130	22.9 / 145
COIL					
Face Area	sq ft (m ²)	11.67 (1.08)	15.1 (1.40)	20.0 (1.86)	25.0 (2.32)
Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Rows		2	2	2	2
Fins per inch		21	16	16	16
FAN					
Fan Type		Propeller	Propeller	Propeller	Propeller
No. used		2	1	1	1
Diameter	in (mm)	18 (457.2)	28 (711)	28 (711)	28 (711)
Drive Type		Direct	Direct	Direct	Direct
Nominal Airflow	cfm (cmh)	2660 (4520)	4885 (8300)	5768 (9800)	6828 (11600)
MOTOR					
No. of Motor		2	1	1	1
Motor Output	Watt	110	290	420	300
No. of Speed		1	1	1	1
Motor Speed	rpm	930	750	830	875
V/ph/Hz		220/1/50	380/3/50	380/3/50	380/3/50
RLA/LRA		0.97/1.76	1.06 / 2.27	1.41 / 3.53	1.2 / 2.8
DIMENSION (HxWxD)					
Uncrated (Net)	mm	1254 x 988 x 350	1050x950x1060	1050x950x1060	1050x1050x1260
WEIGHT					
Uncrated (Net)	kg	105	164	189	240

¹ MCA - Minimum Circuit Ampacity.

² Refrigerant is R22 holding charged.

³ Piping connections of TTK060KD are 7/8 inch suction line and 1/2 inch liquid line for Thailand.

General Data

General Data - Condensing Units

UNIT MODELS		TTA150RD	TTA180RD	TTA200RD	TTA240RD
POWER CONNECTION	V/ph/Hz	380-415/3/50			
MCA ¹	A	32.72	35.00	49.40	53.93
SYSTEM DATA					
No. Refrigerant Circuits		2	2	2	2
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE
Refrigerant ²		R22			
Suction Line OD ³	in (mm)	1 1/8 (28.6)	1 3/8 (34.9)	1 3/8 (34.9)	1 3/8 (34.9)
Liquid line OD ³	in (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
COMPRESSOR					
Compressor Type		Hermetic Scroll			
No. Used		2	2	2	2
V/ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50
RLA/LRA		13.6 / 98	14.3 / 130	20.7 / 130	22.9 / 145
COIL					
Face Area	sq ft (m ²)	30.2 (2.81)	40.0 (3.72)	40.0 (3.72)	42.5 (3.95)
Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Rows		2	2	2	2
Fins per inch		16	16	16	16
FAN					
Fan Type		Propeller	Propeller	Propeller	Propeller
No. used		2	2	2	2
Diameter	in (mm)	28 (711)	28 (711)	28 (711)	28 (711)
Drive Type		Direct	Direct	Direct	Direct
Nominal Airflow	cfm (cmh)	9770 (16600)	11536 (19600)	11536 (19600)	13537 (23000)
MOTOR					
No. of Motor		2	2	2	2
Motor Output	Watt	290	420	420	300
No. of Speed		1	1	1	1
Motor Speed	rpm	750	830	830	875
V/ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50
RLA/LRA		1.06 / 2.27	1.41 / 3.53	1.41 / 3.53	1.2 / 2.8
DIMENSION (HxWxD)					
Uncrated (Net)	mm	1050x2200x1050	1050x2200x1050	1050x2200x1050	1050x2200x1050
WEIGHT					
Uncrated (Net)	kg	382	420	432	462

¹ MCA - Minimum Circuit Ampacity.

² Refrigerant is R22 holding charged.

³ Piping connections of TTK060KD are 7/8 inch suction line and 1/2 inch liquid line for Thailand.

General Data

Outdoor Unit - Manifolded Compressor - 50Hz

UNIT MODELS		TTA150RD0G	TTA180RD0G	TTA200RD0G	TTA240RD0G
POWER CONNECTION	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
MCA ¹	A	39.02	41.75	46.02	52.13
SYSTEM DATA					
Refrigerant Type		R22	R22	R22	R22
No. Refrigerant Circuits		1	1	1	1
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE
Refrigerant Charge	lb (kg)	Holding Charge			
Suction Line OD	in (mm)	1 5/8 (41.3)	1 5/8 (41.3)	1 5/8 (41.3)	1 5/8 (41.3)
Liquid line OD	in (mm)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
COMPRESSOR					
Compressor Type		Hermetic Scroll			
No. Used		2	2	2	2
V/ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50
RLA/LRA		16.4 / 95	17.3 / 114	19.2 / 125	22.1 / 125
COIL					
Face Area	sq ft (m ²)	30.2 (2.81)	40.0 (3.72)	40.0 (3.72)	42.5 (3.95)
Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Tube Type		Plain	Plain	Plain	Plain
Rows		2	2	2	2
Fins per inch		16	16	16	16
FAN					
Fan Type		Propeller	Propeller	Propeller	Propeller
No. used		2	2	2	2
Diameter	in (mm)	28 (711)	28 (711)	28 (711)	28 (711)
Drive Type		Direct	Direct	Direct	Direct
Nominal Airflow ²	cfm (cmh)	9770 (16600)	11536 (19600)	11536 (19600)	13537 (23000)
MOTOR					
Motor Type		Three Phase Induction Motor			
No. of Motor		2	2	2	2
Motor Output	Watt	290	420	420	300
No. of Speed		1	1	1	1
Motor Speed	rpm	750	830	830	875
V/ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50
RLA/LRA		1.06 / 2.27	1.41 / 3.53	1.41 / 3.53	1.20 / 2.80
DIMENSION (HxWxD)					
Uncrated (Net)	mm	1050x2200x1050	1050x2200x1050	1050x2200x1050	1050x2200x1050
WEIGHT					
Uncrated (Net)	kg	368	408	408	424

¹ MCA - Minimum Circuit Ampacity

² CFM is rated with standard air-dry coil.

General Data

General Data - Air Handler Units

UNIT MODELS		TTH060BD	TTH075BD	TTH100BD	TWE120CD
POWER CONNECTION	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
MCA ¹	A	1.8	2.5	4.6	4.6
SYSTEM DATA					
Refrigerant Type		R22	R22	R22	R22
No. Refrigerant Circuits		1	1	1	1
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE
Suction Line OD	in (mm)	1 1/8 (28.57)	1 1/8 (28.57)	1 3/8 (34.93)	1 3/8 (34.93)
Liquid Line OD	in (mm)	3/8 (9.53)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
COIL					
Face Area	sq.ft. (m²)	4.22 (0.39)	5.06 (0.47)	6.67 (0.62)	9.6(0.89)
Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Rows		3	3	3	3
Fins per inch		15	15	15	14
Refrigerant Flow Control		CAP. TUBE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Connection Size	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)
Drain Connection Type		STEEL PIPE - MPT			
FAN					
Fan Type		DOUBLE INLET CENTRIFUGAL WITH FORWARD CURVED WHEEL			
No. used		1	1	2	1
Diameter	in (mm)	10 (254)	10 (254)	10 (254)	15 (381.0)
Width	in (mm)	10 (254)	10 (254)	8 (203.2)	15 (381.0)
Drive Type		BELT - ADJUSTABLE DRIVE			
MOTOR					
No. of Motor		1	1	1	1
Motor hp	hp (kW)	3/4 (0.55)	1 (0.75)	2 (1.5)	2 (1.5)
No. of Speed		1	1	1	1
Motor Speed	rpm	1360	1400	1405	1405
V/ph/Hz		380 - 415/3/50	380 - 415/3/50	380 - 415/3/50	380-415/3/50
RLA / LRA		1.4 - 5.2	1.99 - 11.0	3.66 - 21.0	3.66 - 21.0
FILTER					
Type		WASHABLE ALUMINUM AIR FILTER			
No. used		2	2	3	4
Size (WxLxD)	mm	520x440x25	600x440x25	520x440x25	355 x 635 x 25
DIMENSION (HxWxD)					
Crated (Shipping)	mm	673x1,410x970	673x1,410x970	673x1,778x970	1651x1499x724
Uncrated (Net)	mm	520x1,312x841	520x1,312x841	520x1,680x841	1523x1410x635
WEIGHT					
Uncrated (Net)	kg	86.7	91.3	135.4	154

¹MCA - Minimum Circuit Ampacity

General Data

General Data - Air Handler Units

UNIT MODELS		TWE160CD	TWE180CD	TWE210CD	TWE240CD
POWER CONNECTION	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
MCA ¹	A	6.4	6.4	10.0	10.0
SYSTEM DATA					
Refrigerant Type		R22	R22	R22	R22
No. Refrigerant Circuits		2	2	2	2
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE
Suction Line OD	in (mm)	1 1/8 (28.57)	1 3/8 (34.93)	1 3/8 (34.93)	1 3/8 (34.93)
Liquid Line OD	in (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
COIL					
Face Area	sq.ft. (m²)	12.7 (1.18)	14 (1.47)	16.3 (1.51)	18(1.67)
Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Rows		3	3	3	3
Fins per inch		14	12	15	15
Refrigerant Flow Control		EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE	EXPANSION VALVE
Drain Connection Size	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)
Drain Connection Type		PLASTIC - FEMALE PIPE			
FAN					
Fan Type		DOUBLE INLET CENTRIFUGAL WITH FORWARD CURVED WHEEL			
No. used		1	1	2	2
Diameter	in (mm)	18 (457.2)	18 (457.2)	15 (381.0)	15 (381.0)
Width	in (mm)	18 (457.2)	18 (457.2)	15 (381.0)	15 (381.0)
Drive Type		BELT - ADJUSTABLE DRIVE			
MOTOR					
No. of Motor		1	1	1	1
Motor hp	hp (kW)	2 (1.5)	3 (2.2)	3 (2.2)	5 (3.7)
No. of Speed		1	1	1	1
Motor Speed	rpm	1405	1425	1425	1440
V/ph/Hz		380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
RLA / LRA		3.66 - 21.0	5.08 - 34.0	5.08 - 34.0	8.03 - 63
FILTER					
Type		WASHABLE ALUMINUM AIR FILTER			
No. used		4	4	4	4
Size (WxLxD)	mm	927x400x25	927x400x25	555x727x25	555x727x25
DIMENSION (HxWxD)					
Crated (Shipping)	mm	1867x1702x939	1867x1702x939	1867x2299x794	1867x2299x794
Uncrated (Net)	mm	1751x1613x850	1751x1613x850	1751x2210x702	1751x2210x702
WEIGHT					
Uncrated (Net)	kg	275	285	355	361

¹MCA - Minimum Circuit Ampacity

Application Considerations

Clearance Requirements

The recommended clearances identified with unit dimensions should be maintained to assure adequate serviceability, maximum capacity and peak operating efficiency. Actual clearances which appear inadequate should be reviewed with the local Trane Representative.

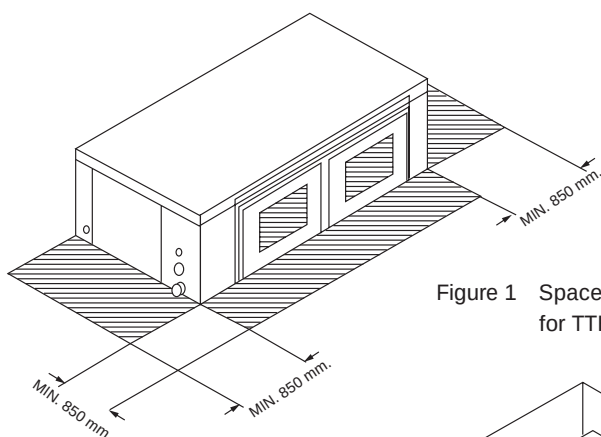


Figure 1 Space requirement for TTH model

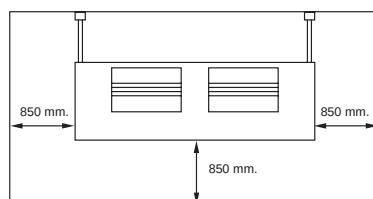


Figure 2 Space requirement for TWE model - Horizontal Type

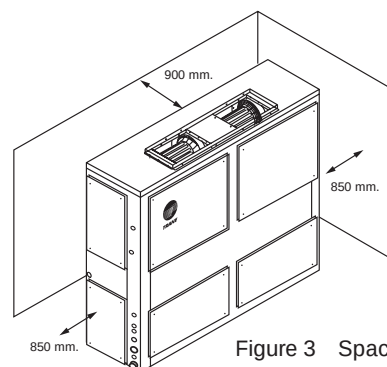


Figure 3 Space requirement for TWE model - Vertical Type

Recommended Interconnecting Lines - Condensing Units

Model	Length of Interconnecting Line (feet)							
	0-20		21-40		41-60		61-80	
	Liq.	Suct.	Liq.	Suct.	Liq.	Suct.	Liq.	Suct.
TTA075RD00	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8
TTA100RD00	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 3/8
TTA120RD00	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 3/8
TTA150RD00 ¹	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8
TTA180RD00 ¹	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 3/8
TTA200RD00 ¹	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 3/8
TTA240RD00 ¹	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 3/8
TTA150RD0G	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8
TTA180RD0G	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8
TTA200RD0G	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8
TTA240RD0G	5/8	1 5/8	5/8	1 5/8	5/8	1 5/8	3/4	1 5/8

Notes: 1. TTA150-240 RD00 are required for dual circuits.
2. For line lengths over 80 linear feet and 15 feet liquid line riser, consult your local Trane representative.

System Performance Data

Table 1 Gross Cooling Capacities (MBH) - TTK060KD Condensing Unit with TTH060BD Air Handler Unit

CFM Airflow		Ambient Temperature (F)																							
		85						95						105						115					
		Enter Dry Bulb (F)		61		67		73		61		67		73		61		67		73		61		67	
		Entering Wet Bulb (F)		61		67		73		61		67		73		61		67		73		61		67	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
1600	75	52.4	37.8	59.1	31.8	66.3	24.3	50.3	36.6	56.9	30.7	64.0	23.5	48.0	35.4	54.4	29.5	61.4	22.6	45.6	34.1	51.8	28.2	58.7	27.3
	80	52.4	43.0	59.2	37.1	66.4	30.8	50.3	41.9	57.0	36.0	64.0	29.7	48.0	40.6	54.5	34.8	61.5	28.5	45.6	39.4	51.9	33.5	58.7	27.3
	85	52.4	48.2	59.2	42.3	66.5	36.1	50.3	47.1	57.0	41.2	64.1	35.0	48.0	45.9	54.5	40.0	61.5	33.8	45.7	44.7	51.9	38.8	58.8	32.6
	90	53.3	53.3	59.3	47.6	66.5	41.4	51.6	51.6	57.0	46.5	64.2	40.3	49.9	49.9	54.5	45.2	61.6	39.1	48.0	48.0	51.9	44.0	58.8	37.9
1800	75	54.1	39.3	60.9	33.0	68.2	25.1	51.9	38.4	58.6	31.8	65.8	24.3	49.5	37.2	56.1	30.6	63.1	23.4	46.9	35.9	53.3	29.3	60.3	22.4
	80	54.1	45.3	61.0	38.7	68.3	31.8	51.9	44.1	58.7	37.6	65.8	30.7	49.5	42.9	56.1	36.4	63.2	29.5	46.9	41.6	53.4	35.1	60.3	28.3
	85	54.2	51.0	61.0	44.5	68.4	37.6	51.9	49.9	58.7	43.3	65.9	36.5	49.7	48.7	56.1	42.1	63.2	35.3	47.4	47.4	53.4	40.8	60.4	34.1
	90	55.8	55.8	61.1	50.2	68.4	43.4	54.0	54.0	58.7	49.1	66.0	42.2	52.1	52.1	56.1	47.8	63.3	41.1	50.2	50.2	53.4	46.6	60.4	39.9
2000	75	55.5	41.3	62.4	34.0	69.8	25.8	53.2	40.1	60.0	32.9	67.3	25.0	50.7	38.8	57.4	31.6	64.5	24.0	48.1	37.5	54.6	30.3	61.6	22.9
	80	55.6	47.5	62.5	40.3	69.9	32.7	53.2	46.3	60.1	39.1	67.3	31.6	50.7	45.0	57.5	37.9	64.6	30.4	48.1	43.7	54.6	36.6	61.6	29.2
	85	55.7	53.7	62.6	46.5	69.9	38.9	53.5	52.6	60.1	45.3	67.4	37.8	51.2	51.2	57.5	44.1	64.6	36.7	49.2	49.2	54.6	42.8	61.7	35.4
	90	58.0	58.0	62.7	52.6	70.1	45.2	56.1	56.1	60.2	51.5	67.5	44.1	54.2	54.2	57.5	50.3	64.7	42.9	52.1	52.1	54.7	49.0	61.7	41.7
2200	75	56.8	42.8	63.7	35.0	71.1	26.4	54.4	41.6	61.3	33.8	68.5	25.6	51.8	40.3	58.6	32.6	65.7	24.5	49.1	39.0	55.7	31.3	62.7	23.2
	80	56.8	49.5	63.8	41.7	71.2	33.5	54.4	48.3	61.4	40.5	68.6	32.4	51.8	47.0	58.6	39.3	65.8	31.2	49.1	45.6	55.7	38.0	62.8	30.0
	85	57.1	56.2	63.9	48.4	71.3	40.2	54.9	54.9	61.4	47.2	68.7	39.1	52.9	52.9	58.7	45.9	65.8	37.9	50.7	50.7	55.7	44.6	62.8	36.7
	90	59.9	59.9	64.0	54.9	71.5	47.0	58.0	58.0	61.4	53.8	68.8	45.8	56.0	56.0	58.7	52.6	65.9	44.6	53.8	53.8	55.7	51.3	62.8	43.4
2400	75	57.8	44.3	64.8	35.9	72.2	27.0	55.4	43.1	62.3	34.7	69.6	26.0	52.7	41.7	59.6	33.5	66.8	24.8	49.9	40.4	56.6	32.2	63.7	23.5
	80	57.9	51.4	64.9	43.0	72.3	34.3	55.5	50.1	62.4	41.9	69.7	33.2	52.7	48.8	59.6	40.6	66.8	32.0	50.0	47.5	56.6	39.3	63.7	30.7
	85	58.4	58.4	65.0	50.1	72.5	41.5	56.5	56.5	62.5	48.9	69.8	40.3	54.4	54.4	59.7	47.7	66.9	39.1	52.2	52.2	56.7	46.4	63.8	37.9
	90	61.7	61.7	65.2	57.1	72.7	48.6	59.7	59.7	62.5	56.0	69.9	47.5	57.6	57.6	59.7	54.8	66.9	46.2	55.4	55.4	56.7	53.4	63.8	45.0

1. Dry coil condition. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat

MBH = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table 2 Gross Cooling Capacities (MBH) - TTA075RD Condensing Unit with TTH075BD Air Handler Unit

CFM Airflow		Ambient Temperature (F)																								
		Enter Dry Bulb (F)	85						95						105						115					
			Entering Wet Bulb (F)																							
			61		67		73		61		67		73		61		67		73		61		67		73	
MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC			
2000	75	67.2	47.9	75.7	40.6	85.0	31.2	63.2	45.7	71.4	40.6	80.4	29.6	58.7	43.3	66.7	36.1	75.4	27.8	53.9	40.8	61.6	33.7	69.9	25.9	
	80	67.3	54.3	75.8	47.1	85.1	39.5	63.2	52.1	71.5	44.9	80.5	37.3	58.8	49.7	66.8	42.6	75.4	35.1	54.0	47.2	61.7	40.1	70.0	32.7	
	85	67.3	60.6	75.9	53.5	85.2	45.9	63.2	58.4	71.5	51.3	80.6	43.8	58.8	56.0	66.8	49.0	75.5	41.5	54.3	53.7	61.7	46.5	70.0	39.2	
	90	67.8	67.2	76.0	59.9	85.3	52.4	64.4	64.5	71.6	57.7	80.6	50.2	61.0	61.0	66.9	55.4	75.6	48.0	57.3	57.4	61.7	52.9	70.1	45.6	
2250	75	69.3	50.1	78.0	42.1	87.5	32.2	65.1	47.8	73.5	39.8	82.7	30.5	60.5	45.4	68.7	37.5	77.4	28.7	55.5	42.8	63.3	35.0	71.7	26.8	
	80	69.4	57.0	78.1	49.1	87.6	40.7	65.2	54.8	73.6	46.8	82.8	38.5	60.6	52.3	68.7	44.5	77.5	36.2	55.5	49.8	63.4	42.0	71.8	33.8	
	85	69.6	63.9	78.3	56.1	87.7	50.9	65.3	61.7	73.7	53.8	82.9	45.6	60.8	59.4	68.8	51.5	77.6	43.3	56.4	56.5	63.4	49.0	71.9	40.9	
	90	70.7	70.7	78.4	63.0	87.9	54.8	67.4	67.4	73.8	60.8	83.0	52.6	63.8	63.8	68.9	58.4	77.7	50.3	59.9	59.9	63.5	55.9	71.9	47.9	
2500	75	71.2	52.1	80.0	43.4	89.6	34.0	66.8	49.8	75.4	41.1	84.6	31.4	62.1	47.3	70.3	38.7	79.2	29.6	56.8	44.7	64.8	36.2	73.2	27.2	
	80	71.3	59.6	80.2	51.0	89.8	41.9	66.9	57.3	75.4	48.7	84.7	39.6	62.1	54.8	70.4	46.3	79.2	37.3	56.8	52.2	64.8	43.8	73.3	34.9	
	85	71.5	67.0	80.3	58.5	89.9	49.5	67.1	64.8	75.6	56.2	84.8	47.2	62.7	62.6	70.4	53.8	79.3	44.9	58.5	58.5	64.9	51.3	73.4	42.5	
	90	73.4	73.4	80.5	65.9	90.1	57.1	69.9	69.9	75.7	63.6	85.0	54.8	66.2	66.2	70.5	61.3	79.5	52.5	62.1	62.1	64.9	58.8	73.5	50.0	
2750	75	72.8	54.0	81.7	44.6	91.4	34.0	68.3	51.6	76.9	42.3	86.2	32.2	63.4	49.1	71.7	39.8	80.6	30.1	54.9	46.5	66.0	37.3	74.5	27.7	
	80	73.0	61.9	81.9	52.7	91.6	42.9	68.4	59.6	77.0	50.4	86.3	40.7	63.4	57.1	71.8	47.9	80.7	38.3	58.0	54.5	66.1	45.4	74.6	35.8	
	85	73.2	69.9	82.0	60.7	91.7	51.1	68.8	67.7	77.1	58.4	86.5	48.8	64.5	64.6	71.9	55.9	80.8	46.4	60.4	60.4	66.1	53.4	74.7	43.9	
	90	75.9	75.8	82.3	68.6	92.0	59.2	72.2	72.2	77.3	66.3	86.7	56.9	68.4	68.4	72.0	63.9	81.0	54.5	64.1	64.2	66.2	61.4	74.8	52.0	
3000	75	74.2	55.8	83.2	45.7	93.0	34.8	69.5	53.3	78.3	43.4	87.6	32.9	64.5	50.8	72.9	40.9	81.9	30.5	59.0	48.1	67.1	38.3	75.7	28.2	
	80	74.4	64.2	83.4	54.3	93.1	43.9	69.7	61.8	78.4	52.0	87.8	41.6	64.5	59.3	73.0	49.5	82.0	39.2	59.1	56.7	67.1	46.9	75.8	36.7	
	85	74.8	72.7	83.6	62.8	93.4	52.5	70.3	70.4	78.6	60.4	87.9	50.2	66.4	66.3	73.1	58.0	82.1	47.8	62.0	62.0	67.2	55.4	75.8	45.3	
	90	78.1	78.1	83.9	71.2	93.7	61.2	74.3	74.4	78.8	68.8	88.2	58.9	70.3	70.3	73.2	66.4	82.3	56.4	65.9	65.9	67.3	63.9	75.9	53.3	

System Performance Data

Table 3 Gross Cooling Capacities (MBH) - TTA100RD Condensing Unit with TTH100BD Air Handler Unit

		Ambient Temperature (F)																							
		85						95						105						115					
CFM	Enter Dry Bulb (F)	Entering Wet Bulb (F)																							
		61		67		73		61		67		73		61		67		73		61		67		73	
Airflow	(F)	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2720	75	90.2	67.0	100.0	54.6	110.7	40.7	86.8	65.2	96.4	52.9	106.8	39.3	83.1	63.4	92.5	51.1	102.5	37.8	79.2	61.4	88.3	49.1	98.1	46.6
	80	90.3	76.9	100.2	64.7	110.8	52.0	86.9	75.2	96.5	63.0	106.9	50.3	83.2	73.3	92.6	61.2	102.6	48.5	79.3	71.4	88.3	59.2	98.1	46.6
	85	90.9	87.0	100.4	74.9	111.0	62.1	87.6	85.4	96.7	73.1	107.0	60.4	84.2	83.7	92.7	71.2	102.7	58.6	80.5	80.5	88.5	69.3	98.1	56.8
	90	93.7	93.7	100.6	84.7	111.3	72.3	91.0	91.0	96.8	82.9	107.2	71.5	88.0	88.0	92.8	81.1	102.9	68.8	84.8	84.8	88.6	79.2	98.3	66.9
3060	75	92.5	70.2	102.3	56.5	113.1	41.7	88.9	68.3	98.6	54.8	109.0	40.3	85.1	66.4	94.5	52.9	104.6	38.8	81.0	64.4	90.2	51.0	100.0	48.2
	80	92.6	80.9	102.6	67.6	113.2	53.6	89.0	79.2	98.8	65.9	109.1	51.9	85.2	77.3	94.6	64.0	104.7	50.1	81.2	75.4	90.3	62.0	100.0	48.2
	85	93.6	92.1	102.8	78.5	113.5	64.7	89.9	89.9	98.9	76.8	109.3	63.0	86.8	86.8	94.7	74.9	104.9	61.2	83.5	83.5	90.3	73.0	100.1	59.3
	90	97.5	97.5	103.1	89.3	113.9	75.9	94.5	94.5	99.1	87.6	109.6	74.1	91.4	91.4	95.0	85.8	105.1	72.3	88.0	88.0	90.7	83.9	100.3	70.4
3400	75	94.3	73.0	104.3	58.3	104.8	42.7	90.6	71.2	100.4	56.5	110.8	41.3	86.7	69.3	96.2	54.6	106.3	39.5	82.5	67.2	91.7	52.7	101.6	49.6
	80	94.6	84.6	104.6	70.3	115.2	55.1	90.9	82.9	100.6	68.5	111.0	53.4	87.0	81.1	96.4	66.6	106.4	51.5	83.0	79.2	91.8	64.6	101.6	49.6
	85	95.8	95.8	104.8	82.0	115.6	67.2	92.8	92.8	100.8	80.1	111.3	65.4	89.6	89.6	96.5	78.4	106.7	63.6	86.1	86.1	91.9	76.4	101.7	61.7
	90	100.7	100.7	105.2	93.6	116.0	79.2	97.6	97.6	101.2	91.9	111.6	77.5	94.3	94.3	97.0	90.2	106.9	75.6	90.8	90.8	92.6	88.3	101.9	73.7
3740	75	95.9	75.6	106.0	60.0	116.6	43.6	92.1	73.8	101.9	58.2	112.4	41.8	88.1	71.9	97.6	56.3	107.7	40.0	83.8	69.9	93.0	54.3	102.9	51.0
	80	96.3	88.2	106.3	72.9	116.9	56.5	92.6	86.5	102.2	71.0	112.5	54.8	88.6	84.7	97.8	69.1	107.9	52.9	84.6	82.8	93.2	67.1	102.9	51.0
	85	98.5	98.5	106.6	85.2	117.4	69.5	95.4	95.4	102.4	83.5	112.9	67.7	92.0	92.0	98.0	81.6	108.2	65.9	88.4	88.4	93.3	79.7	103.1	63.9
	90	103.6	103.6	107.1	97.7	117.6	82.1	100.4	100.4	103.0	96.1	113.1	80.3	96.9	96.9	98.8	94.4	108.3	78.5	93.2	93.2	94.3	92.6	103.3	76.6
4080	75	87.5	78.1	107.4	61.5	118.0	44.1	93.5	76.3	103.3	59.7	113.7	42.3	89.3	74.4	98.9	57.8	109.0	40.5	84.9	72.4	94.1	55.8	104.0	52.3
	80	97.9	91.5	107.8	75.3	118.3	57.9	94.1	89.9	103.6	73.4	113.9	56.1	90.2	88.1	99.1	71.5	109.1	54.3	85.6	85.6	94.3	69.5	104.0	52.3
	85	100.9	100.9	108.1	88.3	118.9	71.7	97.6	97.6	103.8	86.6	114.3	69.9	94.2	94.2	99.3	84.7	109.5	68.0	90.5	90.5	94.5	82.8	104.3	66.1
	90	106.1	106.1	108.8	101.7	119.2	84.9	102.8	102.8	104.7	100.1	114.6	83.2	99.2	99.2	100.4	98.4	109.7	81.3	95.4	95.4	95.5	95.5	104.5	79.4

1. Dry coil condition. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.
 All capacities shown are gross and have not considered indoor fan heat.
 To obtain net cooling capacities subtract indoor fan heat
 MBH = Total Gross Cooling Capacity
 SHC = Sensible Heat Capacity

Table 4 Gross Cooling Capacities (MBH) - TTA120RD Condensing Unit with TWE120CD Air Handler Unit

		Ambient Temperature (F)																							
		85						95						105						115					
CFM Airflow	Enter Dry Bulb (F)	Entering Wet Bulb (F)																							
	61		67		73		61		67		73		61		67		73		61		67		73		
	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	
3200	75	107.4	80.1	119.5	65.4	132.6	48.7	103.7	90.1	115.4	63.4	128.2	47.2	99.2	75.9	110.9	61.3	123.4	45.5	94.5	73.5	105.9	59.0	118.1	43.6
	80	107.6	92.0	119.8	77.6	132.7	62.3	103.7	90.1	115.6	75.9	128.4	60.4	99.3	87.9	111.0	73.5	123.5	58.6	94.6	85.5	106.0	71.2	118.2	56.2
	85	108.4	104.2	120.2	89.8	133.1	74.6	104.7	102.4	115.9	87.8	128.6	72.7	100.7	100.4	111.2	85.6	123.7	70.6	96.3	96.3	106.1	83.3	118.4	68.5
	90	112.1	112.1	120.4	101.6	133.6	86.9	109.0	109.0	116.0	99.6	129.0	84.9	105.4	105.4	111.3	97.5	124.0	83.0	101.6	101.6	106.3	95.3	118.6	80.7
3600	75	110.3	84.0	122.4	67.8	135.5	50.0	106.2	95.0	118.1	65.8	131.0	48.4	101.7	79.7	113.4	63.6	126.0	46.7	96.8	77.3	108.3	61.3	120.6	44.8
	80	110.5	97.0	122.8	81.2	135.7	64.4	106.4	95.0	118.4	79.2	131.2	62.5	101.9	92.8	113.6	77.0	126.2	60.4	97.1	90.5	108.4	74.7	120.7	58.2
	85	108.9	110.5	123.0	94.3	136.3	77.9	107.6	107.6	118.6	92.3	131.6	75.9	104.0	104.0	113.8	90.2	126.5	73.8	100.1	100.1	108.5	87.9	120.9	71.6
	90	116.7	116.7	123.5	107.3	136.8	91.3	113.4	113.4	119.0	105.3	132.0	89.3	109.7	109.7	114.1	103.2	126.8	87.2	105.7	105.7	109.0	101.0	121.2	85.0
4000	75	112.6	87.5	124.9	70.0	137.8	51.1	108.8	99.6	120.4	68.0	133.3	49.5	103.7	83.2	115.6	65.8	128.2	47.7	98.6	80.8	110.3	63.5	122.6	45.5
	80	113.0	101.6	125.3	84.6	138.2	66.3	108.8	99.6	120.8	82.5	133.5	64.3	104.0	102.0	115.8	80.3	128.4	62.3	99.4	95.3	110.5	77.9	122.8	60.1
	85	114.7	114.7	125.6	98.6	138.9	80.9	111.3	111.3	121.0	96.6	134.1	79.0	107.5	107.5	116.0	94.4	128.8	76.8	103.4	103.4	110.6	92.2	123.0	74.6
	90	120.8	120.8	126.1	112.6	139.5	95.5	117.3	117.3	121.6	110.7	134.5	93.5	113.4	113.4	116.7	108.7	129.1	91.4	109.3	109.3	111.5	106.6	123.3	89.1
4400	75	114.6	90.8	126.9	72.1	139.7	52.1	111.0	104.1	122.4	70.0	135.2	50.4	105.5	86.5	117.4	67.8	130.0	48.3	100.3	84.1	111.9	65.5	124.5	46.2
	80	115.2	106.0	127.5	87.7	140.4	68.1	111.0	104.1	122.8	85.6	135.5	66.1	106.3	102.0	117.7	83.4	130.2	64.0	101.5	99.8	112.2	81.0	124.5	61.8
	85	118.1	118.1	127.8	102.6	141.1	83.8	114.5	114.5	123.1	100.6	136.1	81.8	110.6	110.6	117.9	98.5	130.7	79.7	106.4	106.4	112.4	96.2	124.9	77.5
	90	124.4	124.4	128.6	117.8	141.4	98.9	120.7	120.7	124.0	115.9	136.4	97.0	116.7	116.7	119.0	113.9	130.9	94.9	112.4	112.4	113.8	111.9	125.0	92.8
4800	75	116.4	93.9	128.7	74.0	141.3	52.9	112.9	108.3	124.1	71.9	136.7	51.0	107.0	89.6	118.9	69.7	131.5	48.9	101.7	87.2	113.4	67.4	125.9	46.8
	80	117.3	110.2	129.0	90.3	142.2	69.8	112.9	108.3	124.5	88.6	137.3	67.8	108.3	106.3	119.3	86.4	131.9	65.7	102.8	102.8	113.7	84.0	126.0	63.4
	85	121.1	121.1	129.8	106.4	143.1	86.6	117.4	117.4	124.9	104.4	138.0	84.6	113.4	113.4	119.6	102.3	132.4	82.4	109.0	109.0	113.9	100.1	126.4	80.1
	90	127.6	127.6	130.8	122.7	143.5	102.4	123.8	123.8	126.1	120.9	138.3	100.5	119.7	119.7	121.2	118.9	132.7	98.5	115.2	115.2	115.3	115.4	126.7	96.3

System Performance Data

Table 5 Gross Cooling Capacities(MBH)-TTA150RD Condensing Unit with TWE160CD Air Handler Unit

		Ambient Temperature (F)																							
CFM Airflow	Enter Dry Bulb (F)	85						95						105						115					
		61			67			61			67			61			67			61			67		
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4300	75	141.6	113.6	156.6	91.0	178.8	66.9	136.3	108.9	150.0	87.9	171.4	63.9	129.3	105.4	142.7	84.6	163.4	60.9	122.1	101.5	134.7	81.0	154.5	57.8
	80	142.9	129.6	157.4	109.7	176.2	86.7	137.0	126.3	150.8	106.6	168.5	83.9	130.4	122.4	143.5	103.2	160.0	80.6	123.3	118.0	135.6	99.6	150.3	77.3
	85	144.4	144.4	158.5	126.6	174.1	105.3	139.4	139.4	152.0	123.5	166.9	102.3	134.0	134.0	144.8	120.0	159.2	99.2	128.0	128.0	136.9	116.1	150.6	95.6
	90	151.7	151.7	159.4	144.1	174.9	124.2	147.0	147.0	152.9	140.5	167.8	121.1	141.1	141.1	145.9	136.7	160.2	117.9	135.0	135.0	138.3	132.4	151.6	112.5
4800	75	145.5	118.0	159.9	94.6	182.3	68.2	139.2	114.6	153.0	91.5	174.5	65.3	132.2	110.9	145.5	88.2	166.3	62.2	124.6	106.9	136.9	84.2	157.1	58.9
	80	146.6	136.6	160.7	115.5	178.1	89.9	140.5	133.1	153.9	110.8	169.5	87.0	133.8	128.7	146.4	108.8	161.0	83.6	126.9	123.5	138.3	105.1	157.1	82.8
	85	150.0	150.0	162.2	133.9	177.6	112.4	144.8	144.8	155.3	130.6	170.1	107.5	139.0	139.0	147.8	127.0	162.2	104.3	132.5	132.5	139.7	123.0	152.2	99.8
	90	157.8	157.8	163.5	152.3	178.3	131.4	152.4	152.4	156.9	148.6	171.6	126.3	146.5	146.5	149.7	144.2	163.6	122.9	140.1	140.1	142.3	138.6	153.3	118.1
5300	75	148.3	123.4	162.6	98.2	185.1	69.2	141.8	120.0	155.5	95.0	177.1	66.4	134.6	116.2	147.8	91.5	168.6	63.4	126.9	112.0	139.4	90.6	154.9	0.0
	80	149.9	142.9	163.5	121.1	179.8	92.9	144.1	138.9	156.5	117.8	172.1	89.9	135.5	135.1	149.5	112.3	163.9	97.0	128.9	128.9	141.1	108.5	159.3	85.7
	85	154.9	154.9	165.2	140.6	180.5	115.7	149.3	149.3	158.2	137.2	172.8	112.5	143.2	143.2	150.6	133.4	164.6	109.3	136.8	136.8	142.3	113.9	154.4	104.7
	90	163.0	163.0	167.2	159.7	182.3	136.1	157.5	157.5	160.8	155.4	174.5	132.8	151.5	151.5	151.9	151.6	166.3	129.4	144.6	144.6	145.0	145.0	155.6	124.3
5800	75	150.7	150.7	165.4	101.7	187.4	70.5	144.1	125.1	157.7	98.4	179.3	67.6	136.8	121.2	150.3	95.0	170.6	64.5	128.9	116.8	141.2	91.5	157.3	59.8
	80	151.0	150.1	166.9	124.0	182.1	96.0	145.2	145.1	159.7	120.8	174.2	92.9	139.2	139.2	151.7	117.2	165.8	91.0	132.3	132.3	143.0	113.3	161.0	88.2
	85	159.0	159.0	167.9	147.1	183.0	120.8	153.6	153.6	160.8	143.4	175.1	117.5	147.3	147.3	153.1	139.4	166.8	114.1	140.4	140.4	144.7	134.9	156.6	109.8
	90	167.8	167.8	168.5	167.8	184.9	142.4	161.9	161.9	162.3	162.3	177.0	139.1	155.5	155.5	156.0	156.0	168.7	135.6	148.5	148.5	148.9	148.9	157.5	130.1
6300	75	152.9	133.6	167.4	104.9	189.4	71.4	146.1	129.9	159.9	101.7	181.1	68.6	139.1	126.0	151.8	98.2	172.3	65.5	131.0	121.3	143.1	94.3	159.4	61.1
	80	154.3	154.3	169.0	129.6	183.9	97.7	148.8	148.8	161.6	125.5	175.9	95.7	142.2	142.2	153.5	122.7	167.3	92.4	135.3	135.3	144.8	117.8	162.5	91.0
	85	163.1	163.1	170.4	153.0	185.1	125.5	157.2	157.2	163.1	149.3	177.0	122.3	150.8	150.8	155.4	144.5	168.6	118.8	143.6	143.6	147.2	140.0	159.2	115.1
	90	171.9	171.9	172.4	172.4	187.3	148.5	165.8	165.8	166.3	133.1	179.2	145.2	159.3	159.3	159.8	159.8	170.7	141.5	152.1	152.1	152.4	161.4	137.5	

1. Dry coil condition. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat

MBH = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table 6 Gross Cooling Capacities(MBH)-TTA180RD Condensing Unit with TWE180CD Air Handler Unit

		Ambient Temperature (F)																							
CFM Airflow	Enter Dry Bulb (F)	85						95						105						115					
		Entering Wet Bulb (F)																							
		61		67		73		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4800	75	161.3	118.6	177.5	98.5	204.7	77.6	156.0	115.6	171.5	95.5	197.9	74.8	150.1	112.2	165.0	92.4	170.5	64.3	143.7	108.6	157.9	89.1	182.5	68.6
	80	162.0	135.3	178.6	115.2	195.8	94.6	156.7	132.1	172.7	112.1	189.2	91.8	150.8	128.8	166.2	108.9	182.0	88.7	144.5	125.1	159.2	105.4	174.3	85.4
	85	165.0	146.7	179.4	131.7	197.1	110.8	159.6	143.4	173.5	128.6	190.6	106.9	153.6	139.6	167.1	125.3	183.5	105.0	147.2	135.6	160.2	121.7	175.8	101.4
	90	161.2	160.1	180.0	148.2	198.3	127.5	156.7	156.3	174.2	145.1	191.8	124.5	152.0	152.0	167.8	141.8	184.6	121.3	147.1	147.1	160.9	138.2	177.0	116.8
5400	75	165.9	124.4	182.3	102.1	209.8	79.0	160.3	121.3	176.0	99.1	202.7	76.2	154.1	117.9	169.2	95.8	194.9	73.1	147.4	114.1	161.8	92.4	186.5	69.9
	80	166.7	142.4	183.5	120.4	200.9	97.6	161.1	139.7	177.3	117.4	194.0	94.7	155.0	136.2	170.6	113.9	186.5	91.6	150.7	127.7	163.2	110.3	176.0	86.9
	85	170.4	154.0	184.4	138.9	202.3	115.9	164.6	150.3	178.3	135.6	195.5	112.8	158.5	146.3	171.5	132.3	188.1	109.6	151.4	140.0	164.3	128.6	180.0	104.4
	90	167.8	167.8	185.1	157.2	203.4	134.2	163.2	163.2	179.0	153.9	196.6	131.1	158.4	158.4	175.2	145.4	189.3	127.7	153.2	153.2	167.7	141.7	181.2	124.1
6000	75	169.9	129.9	186.3	105.5	213.9	80.2	164.0	126.8	179.9	102.3	206.5	77.5	157.6	123.2	172.8	99.0	198.5	74.4	150.6	119.4	165.1	95.4	189.6	71.1
	80	170.7	150.2	187.6	125.5	205.1	100.5	167.9	141.1	181.2	122.3	198.0	97.6	161.3	138.2	174.2	118.8	190.2	93.2	154.2	133.5	166.6	115.1	181.6	90.8
	85	169.7	166.0	188.6	145.6	206.6	120.5	168.0	153.7	182.2	142.3	199.5	117.3	157.2	154.5	175.2	139.0	191.8	114.0	150.9	150.0	167.7	135.2	183.5	110.5
	90	174.0	174.0	193.1	159.3	207.8	140.5	169.4	169.4	186.6	156.2	200.7	137.3	164.2	164.2	179.4	146.2	193.1	134.0	158.3	158.3	171.6	148.2	184.8	130.3
6600	75	173.2	135.3	189.8	108.6	217.4	81.5	167.1	131.9	183.1	105.5	209.8	78.7	160.5	128.4	175.8	102.0	201.4	75.5	153.3	124.4	167.9	98.4	192.3	72.3
	80	177.8	150.3	191.2	130.4	208.7	103.1	171.4	146.7	184.5	127.1	201.9	100.1	164.8	142.9	177.2	123.5	193.8	96.9	157.4	138.5	169.4	119.8	185.0	93.4
	85	172.3	168.8	192.2	152.2	210.3	124.7	166.8	165.0	185.6	148.8	203.0	121.6	160.8	160.3	178.4	145.4	195.0	118.2	155.2	155.2	170.6	141.4	186.4	114.5
	90	179.6	179.6	197.2	166.4	211.5	146.6	174.6	174.6	190.3	162.7	204.2	143.4	169.0	169.0	183.0	158.7	196.3	139.8	163.2	163.2	174.9	154.1	187.8	136.1
7200	75	176.1	140.4	192.8	111.6	220.3	82.6	169.9	136.9	185.9	108.4	212.4	79.7	163.0	133.2	178.4	104.9	203.8	76.6	155.7	129.4	170.3	100.6	194.4	73.3
	80	175.8	174.7	195.3	158.6	213.4	128.9	170.7	170.6	188.5	155.1	206.0	125.8	164.9	164.9	181.1	150.5	197.8	122.2	159.1	159.1	173.1	147.5	189.0	118.5
	85	181.5	155.7	194.2	135.2	212.4	105.8	175.1	151.8	187.4	131.7	204.7	102.8	148.1	130.0	179.9	129.5	196.2	99.5	160.4	142.8	171.9	124.1	187.2	95.7
	90	184.3	184.3	201.5	172.7	214.7	152.5	179.1	179.1	194.4	168.7	207.3	149.2	173.5	173.5	186.7	164.3	199.2	145.6	167.2	167.2	178.4	159.3	190.4	141.8

System Performance Data

Table 7 Gross Cooling Capacities(MBH)-TTA200RD Condensing Unit with TWE210CD Air Handler Unit

		Ambient Temperature (F)																							
		85						95						105						115					
CFM	Enter Dry Bulb	Entering Wet Bulb (F)																							
		61		67		73		61		67		73		61		67		73		61		67		73	
Airflow	(F)	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
5600	75	186.6	148.4	205.0	118.5	232.6	87.2	179.7	142.2	196.6	114.6	223.5	83.6	172.1	138.0	187.6	110.5	213.7	79.9	163.2	133.3	178.0	106.1	202.8	76.1
	80	188.6	169.2	206.0	142.7	224.8	112.4	181.2	164.9	197.6	138.7	215.7	123.4	173.3	160.3	189.5	134.7	206.2	104.7	164.6	154.9	179.9	130.0	195.7	100.4
	85	189.8	189.2	207.7	158.3	226.2	136.4	183.1	183.1	199.4	160.3	217.3	132.6	177.0	177.0	190.8	156.1	208.4	128.6	169.4	169.4	181.2	151.5	197.9	124.3
	90	198.8	198.8	209.0	186.9	227.3	160.5	192.4	192.4	200.9	187.6	218.5	156.7	185.7	185.7	192.8	178.2	209.2	152.7	178.3	178.3	183.2	172.9	199.5	146.1
6300	75	191.8	154.0	209.2	123.2	236.9	88.8	184.3	150.0	200.2	119.1	227.4	85.3	175.8	145.5	191.2	115.1	217.3	81.7	170.4	144.0	181.3	111.7	206.0	77.5
	80	193.7	179.2	210.2	150.3	229.1	116.2	185.8	173.9	202.1	146.4	219.8	112.5	177.3	168.6	193.1	142.2	209.8	108.7	168.9	162.9	183.0	139.1	199.1	104.1
	85	197.0	197.0	212.5	174.0	230.7	143.0	190.4	190.4	203.9	171.1	222.0	139.4	183.1	183.1	195.0	165.4	212.2	135.4	175.4	175.4	185.5	160.6	201.3	130.9
	90	206.6	206.6	214.4	197.3	231.9	170.2	200.1	200.1	206.1	193.3	223.7	163.5	192.9	192.9	197.2	188.1	214.2	159.4	184.9	184.9	188.1	182.1	203.3	156.0
7000	75	195.8	161.4	212.4	127.8	240.3	90.4	187.6	157.0	204.0	123.8	230.6	86.7	178.8	153.2	194.2	119.4	220.2	83.0	169.9	147.7	184.0	114.8	208.6	79.0
	80	197.6	186.7	214.3	157.7	232.6	120.3	190.0	181.7	205.4	153.6	222.9	116.4	179.5	178.4	197.0	142.6	213.0	112.3	171.2	171.0	186.7	141.7	201.7	108.5
	85	203.3	203.3	216.5	182.9	235.0	150.1	196.1	196.1	208.1	178.8	225.4	146.0	189.0	189.0	198.6	174.2	215.3	141.2	180.9	180.9	188.5	153.8	204.0	137.3
	90	213.5	213.5	219.1	207.7	237.2	176.5	206.5	206.5	210.9	202.5	227.7	172.4	198.9	198.9	201.3	200.3	218.2	168.2	190.5	190.5	191.3	191.3	206.9	163.4
7700	75	198.9	168.3	215.3	132.2	243.1	91.7	190.6	163.7	206.2	128.0	233.1	88.1	181.6	158.7	196.7	123.7	222.5	84.5	174.2	159.0	186.3	119.0	210.5	80.4
	80	202.8	202.4	218.4	161.2	235.6	124.2	191.4	190.5	209.6	157.2	225.9	120.2	183.7	183.7	199.8	152.8	215.5	116.1	175.4	175.4	189.2	148.0	203.8	111.5
	85	208.6	208.6	220.5	191.8	237.9	156.5	201.6	201.6	211.1	185.8	227.9	152.7	194.0	194.0	201.8	182.0	217.8	148.3	185.5	185.5	191.3	176.2	206.4	143.4
	90	219.6	219.6	220.8	219.4	240.6	184.8	212.1	212.1	212.8	212.3	231.4	180.7	204.4	204.4	204.9	204.9	221.0	176.4	195.7	195.7	196.0	196.0	209.6	171.2
8400	75	201.5	174.7	217.7	146.3	245.4	93.2	193.0	169.8	208.5	128.0	235.2	89.6	183.9	164.8	198.9	127.9	224.3	85.9	174.2	159.0	188.2	123.1	212.1	81.6
	80	202.8	202.4	221.5	167.9	238.0	127.6	195.3	195.3	211.9	163.6	228.3	123.7	187.8	187.8	202.2	159.1	217.4	119.6	179.3	179.3	191.5	153.9	206.0	115.0
	85	213.8	213.8	223.3	199.4	240.4	163.0	206.3	206.3	214.0	194.3	230.4	159.0	198.4	198.4	204.4	188.8	220.0	154.4	189.6	189.6	193.9	182.6	208.4	149.6
	90	224.8	224.8	225.1	225.1	244.1	193.1	217.3	217.3	217.3	217.3	234.1	188.7	209.2	209.2	209.6	209.6	223.4	184.0	200.1	200.1	200.4	200.4	211.8	179.8

1. Dry coil condition. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.
 All capacities shown are gross and have not considered indoor fan heat.
 To obtain net cooling capacities subtract indoor fan heat
 MBH = Total Gross Cooling Capacity
 SHC = Sensible Heat Capacity

Table 8 Gross Cooling Capacities (MBH) - TTA240RD Condensing Unit with TWE240CD Air Handler Unit

		Ambient Temperature (F)																							
		85						95						105						115					
CFM Airflow	Enter Dry Bulb (F)	Entering Wet Bulb (F)																							
		61		67		73		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6400	75	210.5	148.3	236.3	126.6	264.6	97.2	203.8	144.5	229.3	122.9	256.9	94.5	196.5	140.4	221.5	118.8	248.5	91.5	188.5	136.0	212.9	114.5	239.3	88.3
	80	210.7	167.2	236.5	145.6	264.8	122.8	204.2	183.1	229.5	141.8	257.1	119.1	196.7	159.2	221.6	137.8	248.7	125.3	188.6	154.8	213.1	133.5	239.5	110.9
	85	210.9	185.9	236.7	164.5	265.0	141.8	204.2	182.1	229.6	160.7	257.4	138.2	196.8	178.0	221.8	156.7	248.9	134.2	188.7	173.6	213.2	152.4	239.6	130.0
	90	211.6	204.6	237.1	183.4	265.3	160.8	205.3	201.2	229.9	179.6	257.6	157.1	198.7	197.6	222.0	175.6	249.1	153.2	191.7	191.7	213.3	171.2	239.8	148.9
7200	75	217.4	154.9	243.9	131.0	272.6	100.4	210.5	151.0	236.5	127.2	264.6	97.7	202.8	146.8	228.3	123.0	255.8	94.6	194.4	142.3	219.3	118.6	246.1	91.3
	80	217.8	175.5	244.1	151.7	272.9	126.6	210.7	171.6	236.7	147.9	264.8	122.8	203.0	167.3	228.4	143.7	256.0	118.8	194.5	162.8	219.4	139.3	246.3	114.5
	85	218.1	195.8	244.4	172.3	273.1	147.4	211.0	191.9	236.9	168.4	265.1	143.6	203.1	187.7	228.6	164.3	256.2	139.5	194.6	183.2	219.6	159.9	246.4	135.2
	90	219.7	216.6	244.8	192.9	273.4	168.1	213.4	213.3	237.2	189.0	265.3	164.3	206.9	206.9	228.9	184.8	256.3	160.2	200.3	200.3	219.8	180.4	246.6	155.9
8000	75	223.4	161.0	250.3	135.0	279.4	103.4	216.2	157.0	242.6	131.1	271.1	100.6	208.2	152.7	234.0	126.8	261.9	97.5	199.5	148.1	224.7	122.3	251.8	94.1
	80	223.8	183.2	250.5	157.3	279.7	130.1	216.7	201.0	242.8	153.3	271.3	126.2	208.4	174.9	234.2	149.1	262.1	122.1	199.6	170.2	224.8	144.6	252.0	117.7
	85	224.2	204.9	251.0	179.5	279.9	152.4	216.7	201.0	243.1	175.6	271.6	148.6	208.6	196.7	234.4	171.3	267.5	149.0	200.1	192.4	225.0	166.8	252.2	140.0
	90	226.9	226.9	251.2	201.5	280.4	174.8	221.1	221.1	243.3	197.6	271.8	170.9	214.8	214.8	234.6	193.3	267.8	172.8	207.9	207.9	225.1	188.8	252.3	162.3
8800	75	228.6	166.7	255.8	138.6	285.2	106.1	221.1	162.6	247.8	134.6	276.6	103.3	212.8	158.2	238.9	130.3	267.1	100.1	203.8	153.5	229.3	125.7	256.7	96.7
	80	229.0	190.2	256.1	162.4	285.5	133.2	221.4	186.1	248.0	158.4	276.9	129.3	213.0	181.8	239.1	154.1	267.3	125.1	203.9	177.1	229.4	149.5	256.9	120.7
	85	229.5	213.4	256.6	186.3	285.8	157.1	221.8	209.4	248.4	182.2	277.1	153.2	213.7	205.3	239.4	177.9	267.5	149.0	205.2	201.1	229.6	173.3	257.1	144.5
	90	234.5	234.5	257.0	209.5	286.4	181.0	228.5	228.5	248.7	205.6	277.5	177.1	221.9	221.9	239.7	201.3	267.8	172.8	214.7	214.7	229.6	196.7	257.3	168.3
9600	75	233.2	171.9	260.5	141.9	290.3	108.7	225.4	167.8	252.3	137.9	281.4	105.8	216.9	163.3	243.2	133.5	271.7	102.5	207.6	158.6	233.3	128.9	261.0	98.0
	80	233.6	196.7	260.9	167.2	290.6	136.1	225.8	192.7	252.6	163.2	281.7	132.1	217.1	188.3	243.4	158.8	271.9	127.9	207.8	183.5	233.4	154.2	261.2	123.4
	85	234.2	221.4	261.6	192.6	290.9	161.5	226.6	217.6	253.1	188.4	281.9	157.5	218.5	213.6	243.8	184.0	272.1	153.2	210.0	209.4	233.7	179.4	261.3	148.7
	90	241.4	241.4	262.1	217.1	291.6	186.9	235.1	235.1	253.5	213.1	282.5	182.9	228.3	228.3	244.1	208.7	272.5	178.6	220.8	220.8	234.0	204.1	261.6	174.0



Fan Performance Data 5 Tons

Table 9 Evaporator Fan Performance 5 Tons TTH060B - Air Handler

External Static Pressure (Inches of Water Gauge)																											
0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.1"		1.2"					
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP			
0.75 HP Standard Motor																											
1600	670	.28	724	.32	776	.36	826	.40	876	.44	924	.49	972	.53	1018	.58	-	-	-	-	-	-	-	-			
1800	731	.39	780	.43	827	.48	873	.52	918	.56	962	.61	1006	.66	1049	.71	1091	.75	1132	.80	1172	.85	-	-			
2000	790	.51	836	.56	879	.61	921	.64	963	.69	1003	.73	1043	.80	1083	.85	1122	.90	1161	.96	1199	1.01	1237	1.06			
2200	865	.68	907	.73	947	.78	986	.83	1024	.88	1061	.94	1099	.99	1135	1.04	1171	1.10	1207	1.16	1243	1.20	1278	1.27			
2400	-	-	986	.91	1005	.97	1042	1.03	1077	1.08	1112	1.14	1147	1.20	1181	1.26	1214	1.32	1248	1.38	1281	1.44	1314	1.50			
1 HP or 2 HP Oversize Motor																											

NOTE:

Fan motor heat (MBh) = 3.15 x BHP

Trane's factory supplied motors in commercial equipment are definite purpose motors specifically designed and tested to operate reliably and continuously at all catalog conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 2000 CFM, and 0.3 inches of water for external static pressure.

Fan Performance Data

6 Tons

Table 10 Evaporator Fan Performance 6 Tons TTH075B - Air Handler

External Static Pressure (Inches of Water Gauge)																																			
0.1"			0.2"			0.3"			0.4"			0.5"			0.6"			0.7"			0.8"			0.9"			1.0"			1.1"			1.2"		
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP					
1 HP Standard Motor																																			
2000	741	.46	790	.52	836	.56	879	.61	921	.65	963	.69	1003	.75	1043	.80	1083	.85	1122	.90	1161	.96	1199	1.01											
2250	801	.62	847	.68	890	.73	930	.78	969	.84	1008	.88	1045	.95	1081	.99	1117	1.05	1153	1.10	1189	1.61	1224	1.20											
2500	856	.81	908	.86	948	.91	987	.94	1024	.98	1059	1.12	1094	1.18	1128	1.23	1161	1.29	1195	1.35	1227	1.42	1260	1.47											
2750	944	.98	984	1.10	1022	1.20	1058	1.27	1093	1.30	1126	1.40	1158	1.47	1190	1.53	1221	1.61	1252	1.66	1282	1.72	1312	1.80											
3000	1013	1.36	1051	1.44	1087	1.51	1121	1.59	1154	1.65	1185	1.72	1217	1.80	1246	1.87	1276	1.94	-	-	-	-	-	-											
2 HP Oversize Motor																																			

NOTE:

Fan motor heat (MBh) = 3.15 x BHP

Trane's factory supplied motors in commercial equipment are definite purpose motors specifically designed and tested to operate reliably and continuously at all catalog conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 2500 CFM, and 0.3 inches of water for external static pressure.



Fan Performance Data

8 Tons

Table 11 Evaporator Fan Performance 8 Tons TTH100B - Air Handler

	External Static Pressure (Inches of Water Gauge)																											
	0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.1"		1.2"					
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2 HP Standard Motor																												
2700	694	.54	747	.60	797	.67	845	.73	891	.80	936	.87	980	.95	1023	1.02	1065	1.10	1107	1.17	-	-	-	-	-	-	-	-
3000	752	.72	800	.79	846	.86	891	.93	934	1.02	972	1.09	1016	1.17	1056	1.26	1095	1.33	1133	1.42	1171	1.50	1209	1.59	-	-	-	-
3400	844	1.00	888	1.08	929	1.16	970	1.25	1009	1.33	1048	1.42	1086	1.57	1122	1.60	1158	1.68	1193	1.78	1228	1.86	-	-	-	-	-	-
3700	881	1.20	922	1.32	962	1.40	1000	1.50	1038	1.58	1075	1.68	1110	1.77	1145	1.87	1179	1.96	-	-	-	-	-	-	-	-	-	-
4000	947	.56	985	1.65	1022	1.75	1058	1.85	1093	1.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

Fan motor heat (MBh) = 3.15 x BHP

Trane's factory supplied motors in commercial equipment are definite purpose motors specifically designed and tested to operate reliably and continuously at all catalog conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 3400 CFM, and 0.3 inches of water for external static pressure.

Fan Performance Data

10 Tons

Table 12 Evaporator Fan Performance 10 Tons TWE120C - Air Handler

CFM	External Static Pressure (Inches of Water Gauge)																							
	0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.2"			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2 HP Standard Motor																								
3200	-	-	-	-	543	0.60	580	0.66	617	0.73	653	0.81	688	0.88	723	0.96	756	1.04	788	1.12	850	1.29		
3400	-	-	528	0.62	564	0.69	600	0.76	635	0.83	670	0.91	703	0.99	736	1.07	768	1.15	800	1.24	860	1.41		
3600	516	0.66	551	0.73	586	0.79	620	0.86	653	0.94	686	1.02	718	1.10	749	1.18	781	1.27	811	1.36	870	1.54		
3800	537	0.76	570	0.83	603	0.90	636	0.97	668	1.05	699	1.13	730	1.21	761	1.30	791	1.38	820	1.48	877	1.67		
4000	561	0.87	593	0.95	624	1.02	655	1.10	686	1.18	716	1.26	746	1.35	775	1.43	804	1.53	832	1.62	866	1.81		
4200	587	1.01	617	1.08	647	1.16	677	1.24	706	1.32	735	1.41	764	1.50	792	1.59	820	1.68	848	1.78	901	1.97		
4400	613	1.15	642	1.23	670	1.31	699	1.39	727	1.48	755	1.57	782	1.66	809	1.75	836	1.84	863	1.94	915	2.15		
4600	646	1.33	674	1.41	701	1.41	728	1.58	755	1.67	782	1.76	808	1.86	834	1.96	860	2.05	886	2.15	936	2.36		
4800	662	1.47	689	1.56	715	1.64	741	1.73	767	1.82	793	1.92	818	2.01	844	2.11	869	2.21	893	2.31	947	2.53		

NOTE:

Data includes pressure drop due to wet coil and 1" filter.

Fan motor heat (MBh) = 3.15 x BHP.

Trane's factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 4,000 cfm and 0.5 inches of water external static pressure.

(Continued)

CFM	External Static Pressure (Inches of Water Gauge)							
	1.4"		1.6"		1.8"		2.0"	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2 HP Standard Motor							3 HP Oversized	
3200	908	1.47	964	1.65	-	-	-	-
3400	917	1.59	972	1.78	1024	1.88	-	-
3600	926	1.73	979	1.92	1031	2.06	1080	2.33
3800	932	1.86	985	2.06	1035	2.26	1084	2.48
4000	941	2.01	993	2.22	1043	2.43	1090	2.64
4200	953	2.18	1004	2.39	1052	2.61	1099	2.83
4400	965	2.36	1014	2.57	1062	2.79	-	-
4600	985	2.58	1033	2.80	-	-	-	-
4800	990	2.75	1037	2.97	-	-	-	-



Fan Performance Data

13 Tons

Table 13 Evaporator Fan Performance 13 Tons TWE160C - Air Handler

CFM	External Static Pressure (Inches of Water Gauge)																					
	0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.2"	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
	2HP Standard Motor																				3 HP Oversized Motor	
4300	468	0.82	500	0.91	530	1.01	560	1.11	588	1.21	616	1.31	643	1.42	669	1.52	694	1.63	719	1.75	766	1.98
4500	476	0.90	506	0.99	536	1.09	565	1.19	593	1.30	620	1.40	646	1.51	672	1.62	697	1.73	721	1.85	768	2.08
4700	487	0.99	516	1.09	545	1.18	573	1.29	600	1.40	627	1.51	653	1.62	678	1.73	702	1.85	726	1.96	772	2.20
4900	491	1.06	520	1.17	549	1.27	576	1.38	603	1.48	629	1.60	654	1.71	679	1.83	703	1.94	727	2.06	773	2.31
5100	502	1.17	530	1.27	558	1.38	584	1.49	611	1.60	636	1.71	661	1.83	685	1.95	709	2.07	732	2.19	777	2.44
5300	510	1.26	538	1.37	564	1.48	590	1.59	616	1.71	641	1.82	665	1.94	689	2.06	712	2.19	735	2.31	779	2.57
5500	521	1.37	548	1.48	574	1.60	599	1.71	624	1.83	648	1.95	672	2.07	695	2.20	718	2.32	741	2.45	784	2.71
5700	532	1.49	558	1.61	583	1.72	608	1.84	632	1.96	656	2.08	679	2.21	702	2.34	724	2.47	746	2.60	789	2.86
5900	540	1.61	565	1.72	590	1.84	614	1.96	638	2.09	661	2.21	684	2.34	706	2.47	728	2.60	750	2.74	792	3.01
6100	557	1.74	575	1.86	599	1.98	632	2.11	646	2.23	669	2.36	691	2.49	713	2.62	735	2.76	756	2.90	798	3.09
6300	561	1.88	585	2.01	609	2.13	633	2.25	655	2.38	677	2.51	699	2.64	720	2.78	742	2.92	762	3.06	803	3.32

NOTE:

Data includes pressure drop due to wet coil and 1" filter.

Fan motor heat (MBh) = 3.15 x BHP.

Trane's factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 5,300 cfm and 0.5 inches of water external static pressure.

(Continued)

	External Static Pressure (Inches of Water Gauge)									
	1.4"		1.6"		1.8"		2.0"		2.2"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	3 HP Oversized Motor				5 HP Oversized Motor					
4300	-	-	-	-	-	-	-	-	-	-
4500	813	2.33	-	-	-	-	-	-	-	-
4700	816	2.45	839	2.71	-	-	-	-	-	-
4900	816	2.56	858	2.82	898	3.09	-	-	-	-
5100	820	2.70	861	2.97	901	3.24	940	3.52	-	-
5300	822	2.83	863	3.10	902	3.38	941	3.67	978	3.96
5500	826	2.98	866	3.26	906	3.54	944	3.83	980	4.13
5700	870	3.14	909	3.42	909	3.71	946	4.01	983	4.31
5900	833	3.29	872	3.58	911	3.87	948	4.17	984	4.48
6100	838	3.46	876	3.74	920	4.10	951	4.36	987	4.67
6300	843	3.64	881	3.93	918	4.24	954	4.55	989	4.87

Fan Performance Data

15 Tons

Table 14 Evaporator Fan Performance 15 Tons TWE180C - Air Handler

CFM	External Static Pressure (Inches of Water Gauge)																							
	0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.2"			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3HP Standard Motor																								
4800	460	0.93	490	0.95	520	1.13	548	1.23	576	1.34	603	1.45	629	1.56	655	1.67	679	1.78	703	1.90	750	2.14		
5100	467	1.04	496	1.14	525	1.25	552	1.35	579	1.42	605	1.58	631	1.69	656	1.80	680	1.92	704	2.04	752	2.29		
5400	475	1.16	503	1.27	531	1.38	557	1.49	583	1.60	609	1.72	634	1.83	658	1.95	682	2.07	705	2.20	754	2.45		
5700	484	1.30	511	1.41	537	1.52	563	1.63	588	1.75	613	1.87	637	1.98	661	2.11	684	2.24	706	2.36	755	2.62		
6000	495	1.45	521	1.56	546	1.68	571	1.80	596	1.92	620	2.04	643	1.74	666	2.29	689	2.42	711	2.55	757	2.82		
6300	509	1.63	534	1.75	559	1.87	583	1.99	606	2.11	630	2.24	652	2.37	675	2.50	697	2.64	718	2.77	760	3.05		
6600	536	1.88	560	2.01	583	2.13	606	2.26	651	2.39	673	2.52	694	2.66	715	2.79	736	2.93	777	3.07	816	3.36		
6900	559	2.14	582	2.27	604	2.40	626	2.54	648	2.67	669	2.81	690	2.95	711	3.09	732	3.23	752	3.38	791	3.67		
7200	584	2.44	605	2.57	627	2.71	648	2.85	669	2.99	690	3.13	710	3.27	730	3.42	750	3.57	769	3.73	808	4.02		

NOTE:

Data includes pressure drop due to wet coil and 1" filter.

Fan motor heat (MBh) = 3.15 x BHP.

Trane's factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 6,000 cfm and 0.5 inches of water external static pressure.

(Continued)

CFM	External Static Pressure (Inches of Water Gauge)									
	1.4"		1.6"		1.8"		2.0"		2.2"	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3HP Standard Motor					5 HP Oversized Motor					
4800	794	2.39	834	2.64	874	2.90	-	-	-	-
5100	795	2.54	835	2.81	875	3.07	913	3.35	-	-
5400	796	2.71	836	2.98	876	3.26	914	3.54	950	3.83
5700	798	2.89	837	3.17	878	3.45	915	3.74	952	4.04
6000	800	3.10	838	3.38	879	3.67	916	3.97	953	4.27
6300	801	3.33	841	3.62	880	3.93	917	4.22	955	4.53
6600	855	3.65	892	3.95	892	4.26	929	4.57	964	4.89
6900	830	3.98	867	4.29	904	4.60	-	-	-	-
7200	845	4.34	881	4.66	-	-	-	-	-	-



Fan Performance Data

17.5 Tons

Table 15 Evaporator Fan Performance 17.5 Tons TWE210C - Air Handler

CFM	External Static Pressure (Inches of Water Gauge)																							
	0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.2"			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
	3HP Standard Motor																							
5400	549	0.95	594	1.09	637	1.27	678	1.37	717	1.52	755	1.68	792	1.84	827	2.00	861	2.17	894	2.34	956	2.68		
5800	563	1.09	605	1.23	646	1.38	686	1.53	724	1.68	761	1.85	794	2.01	832	2.18	865	2.35	898	2.53	960	2.89		
6200	598	1.29	629	1.43	668	1.58	706	1.74	743	1.91	778	2.07	813	2.25	847	2.42	879	2.60	911	2.79	972	3.16		
6600	602	1.45	641	1.61	678	1.76	715	1.92	750	2.09	785	2.27	819	2.44	851	2.63	883	2.80	915	3.00	975	3.39		
7000	617	1.64	653	1.80	689	1.96	724	2.12	758	2.30	792	2.47	825	2.66	857	2.85	888	3.04	919	3.23	978	3.63		
7400	631	1.84	666	2.00	700	2.17	734	2.34	767	2.52	800	2.70	831	2.89	863	3.08	893	3.28	923	3.48	981	3.89		
7800	653	2.10	686	2.26	719	2.43	751	2.61	783	2.79	814	2.98	845	3.17	875	3.37	905	3.57	934	3.78	990	4.20		
8200	671	2.35	703	2.52	734	2.70	765	2.88	796	3.07	826	3.26	856	3.46	885	3.66	914	3.87	942	4.08	997	4.51		
8600	692	2.65	722	2.82	752	3.00	782	3.19	812	3.38	841	3.58	870	3.78	898	3.99	926	4.20	953	4.42	1007	4.86		

NOTE:

Data includes pressure drop due to wet coil and 1" filter.

Fan motor heat (MBh) = 3.15 x BHP.

Trane's factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 7,000 cfm and 0.5 inches of water external static pressure.

(Continued)

CFM	External Static Pressure (Inches of Water Gauge)							
	1.4"		1.6"		1.8"		2.0"	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
5HP Oversize Motor								7.5 HP Oversize
5400	-	-	-	-	-	-	-	-
5800	-	-	-	-	-	-	-	-
6200	1029	3.55	1084	3.95	-	-	-	-
6600	1032	3.79	1086	4.20	1138	4.62	1188	5.05
7000	1034	4.05	1088	4.47	1139	4.90	1189	5.35
7400	1037	4.31	1090	4.75	1141	5.20	1190	5.65
7800	1045	4.64	1097	5.09	1148	5.56	1196	6.02
8200	1051	4.96	1102	5.42	1152	5.90	-	-
8600	1059	5.32	1110	5.80	1159	6.28	-	-

Fan Performance Data

20 Tons

Table 16 Evaporator Fan Performance 20 Tons TWE240C - Air Handler

	External Static Pressure (Inches of Water Gauge)																							
	0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"		1.2"			
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
	5HP Standard Motor																							
6400	-	-	-	-	541	1.18	582	1.32	621	1.46	660	1.62	697	1.77	734	1.94	769	2.11	804	2.28	870	2.64		
6800	-	-	-	-	573	1.41	611	1.55	649	1.71	685	1.87	721	2.03	756	2.20	790	2.38	823	2.56	887	2.93		
7200	-	-	560	1.48	597	1.63	633	1.78	668	1.93	703	2.10	737	2.27	771	2.45	804	2.63	836	2.82	898	3.20		
7600	-	-	592	1.74	627	1.90	661	2.05	694	2.22	728	2.39	760	2.57	793	2.75	824	2.94	855	3.13	915	3.53		
8000	586	1.86	619	2.01	652	2.17	684	2.34	717	2.51	748	2.72	780	2.87	811	3.06	841	3.25	871	3.45	929	3.86		
8400	613	2.15	645	2.31	677	2.47	708	2.64	739	2.82	769	3.00	799	3.19	829	3.39	858	3.59	887	3.79	944	4.21		
8800	647	2.49	677	2.65	707	2.83	737	3.01	766	3.19	795	3.38	824	3.58	853	3.78	881	3.98	909	4.19	963	4.63		
9200	673	2.31	702	2.99	730	3.17	759	3.36	787	3.55	815	3.75	843	3.95	871	4.15	898	4.36	925	4.62	978	5.03		
9600	701	3.20	729	3.38	756	3.56	784	3.75	811	3.95	838	4.15	865	4.36	891	4.57	917	4.79	943	5.01	994	5.47		

NOTE:

Data includes pressure drop due to wet coil and 1" filter.

Fan motor heat (MBh) = 3.15 x BHP.

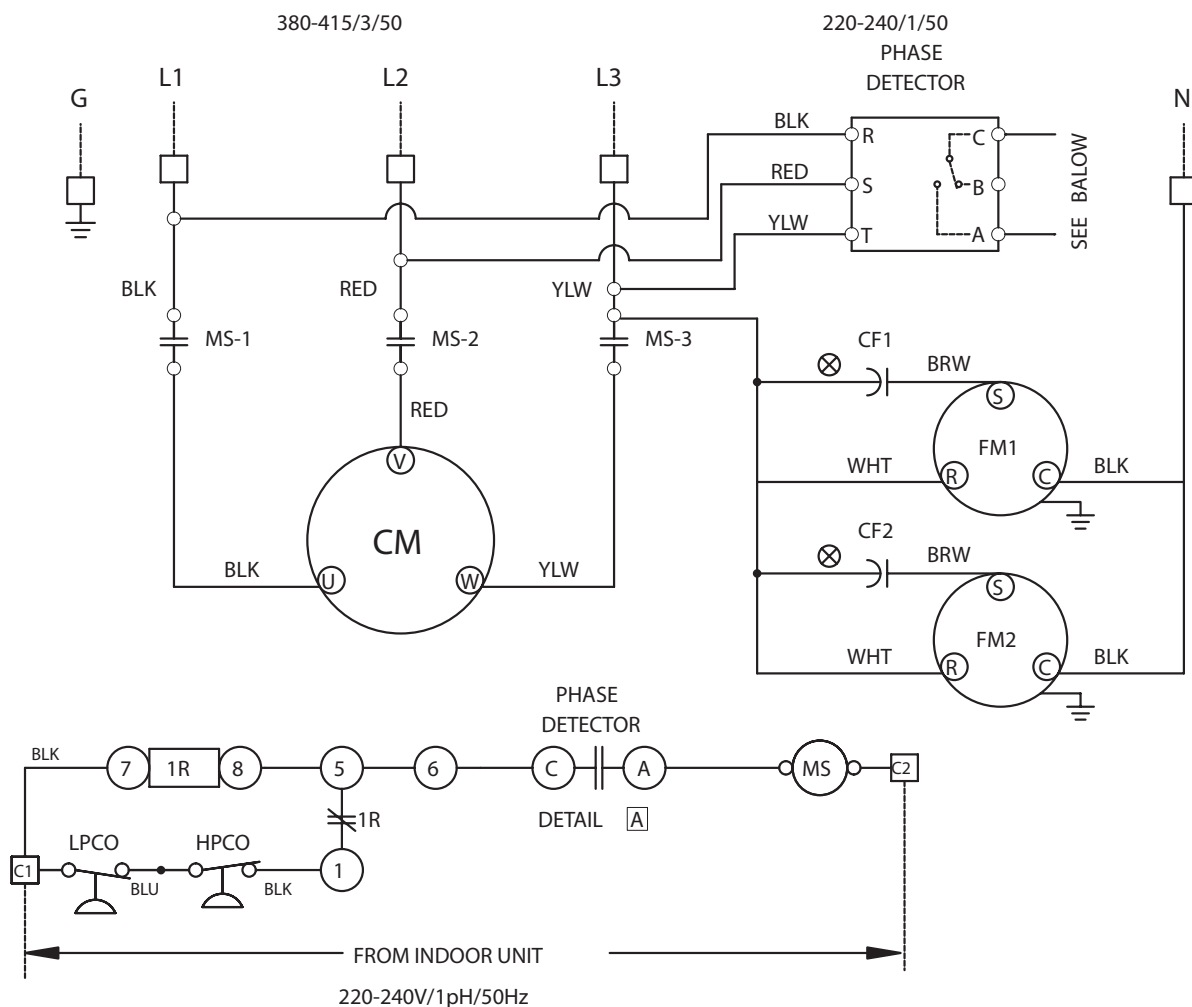
Trane's factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected. Trane's factory supplied this standard product rated at 8,000 cfm and 0.5 inches of water external static pressure.

(Continued)

CFM	External Static Pressure (Inches of Water Gauge)							
	1.4"		1.6"		1.8"		2.0"	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
5HP Standard Motor								7.5 HP Oversize
6400	933	3.02	992	3.40	-	-	-	-
6800	948	3.32	1006	3.72	1061	4.13	-	-
7200	958	3.60	1015	4.02	1069	4.44	1121	4.88
7600	973	3.95	1029	4.38	1082	4.82	1130	5.27
8000	986	4.29	1040	4.73	1092	5.18	1142	5.65
8400	998	4.65	1051	5.11	1152	5.57	1152	6.05
8800	1016	5.04	1068	5.55	1118	6.03	1166	6.52
9200	1029	5.49	1079	5.97	1128	6.46	1176	6.96
9600	1045	5.95	1093	6.44	1141	6.94	-	-

Condensing Unit Wiring

TTK048-060KD (Domestic)



LEGEND

CM	COMPRESSOR WITH INNER PROTECTOR
CF1,2	FAN CAPACITOR
FM1,2	FAN MOTOR WITH INNER PROTECTOR
HPCO	HIGH PRESSURE CUT-OUT
LPCO	LOW PRESSURE CUT-OUT
MS	COMPRESSOR MOTOR CONTACTOR
1R	RELAY, CONTROL LOCKOUT
○	TERMINAL
•	JUNCTION
⊗	IDENTIFIED TERMINAL
⊙	COIL
□	TERMINAL BOARD BY OTHERS
□	TERMINAL BOARD BY FACTORY
---	FIELD WIRING
---	FACTORY WIRING
	RELAY CONTACT N.O.
	RELAY CONTACT N.C.
⊂	CAPACITOR
⊂	PRESSURE SENSING SWITCH

NOTES:

1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
2. USE COPPER CONDUCTORS ONLY.
3. THREE PHASE CONDENSING UNITS REQUIRE TWO POWER SUPPLY SOURCES AS SHOWN.

COLOR CODE

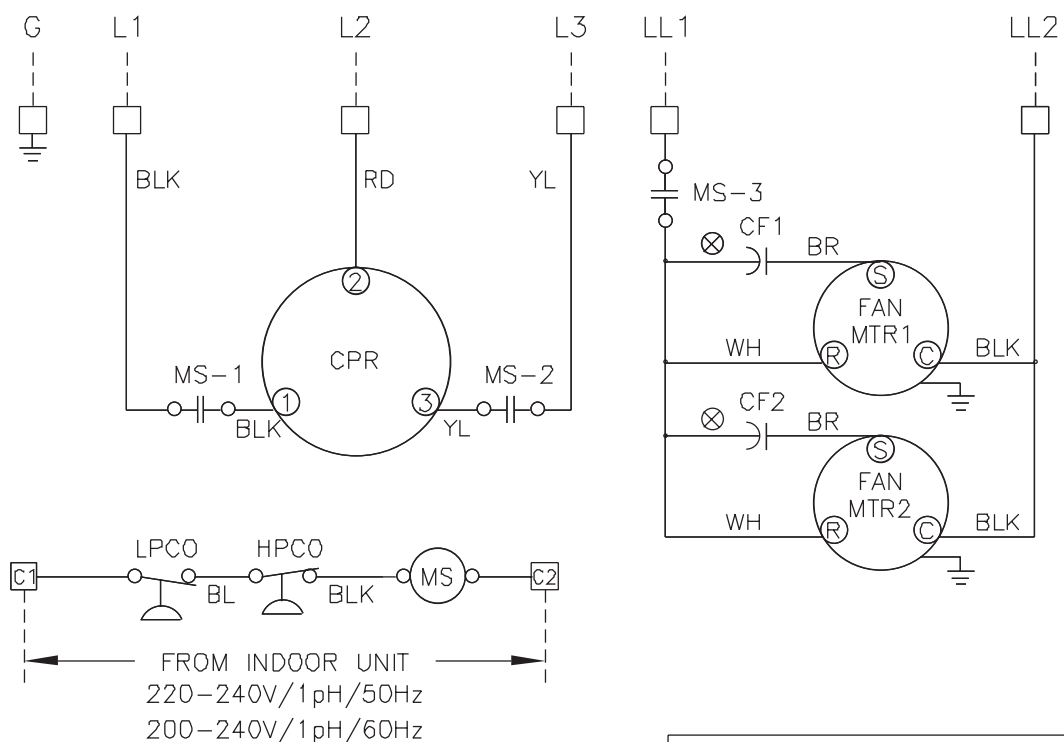
BLU	BLUE
BLK	BLACK
BRW	BROWN
GRY	GRAY
ORN	ORANGE
RED	RED
WHT	WHITE
YLW	YELLOW

Condensing Unit Wiring

TTK048-060KD (EXPORT)

380-415/3/50
220-240/3/60
460/3/60

220-240/1/50
200-240/1/60



LEGEND

CPR	COMPRESSOR
CF1, 2	FAN CAPACITOR
FAN MTR1, 2	FAN MOTOR
HPCO	HIGH PRESSURE CUT-OUT
LPCO	LOW PRESSURE CUT-OUT
MS	COMPRESSOR MOTOR CONTACTOR
○	TERMINAL
⊗	JUNCTION
⊙	IDENTIFIED TERMINAL
□	COIL
□	TERMINAL BOARD BY OTHERS
□	TERMINAL BOARD BY FACTORY
----	FIELD WIRING
=====	FACTORY WIRING
— — —	RELAY CONTACT N.O.
— — —	CAPACITOR
— — —	PRESSURE SENSING SWITCH

NOTES:

1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
2. USE COPPER CONDUCTORS ONLY.
3. THREE PHASE CONDENSING UNITS REQUIRE TWO POWER SUPPLY SOURCES AS SHOWN.

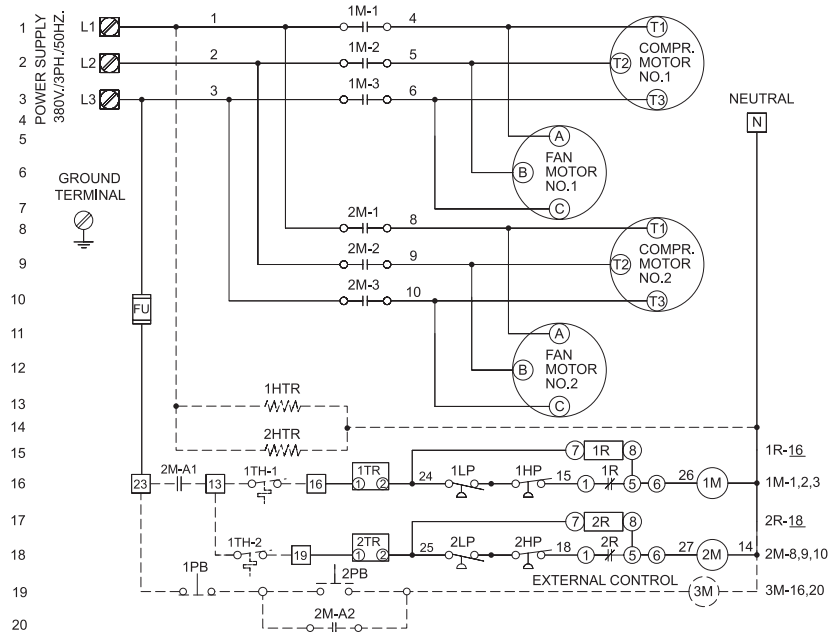
COLOR CODE

BL	BLUE
BLK	BLACK
BR	BROWN
GR	GRAY
OR	ORANGE
RD	RED
WH	WHITE
YL	YELLOW

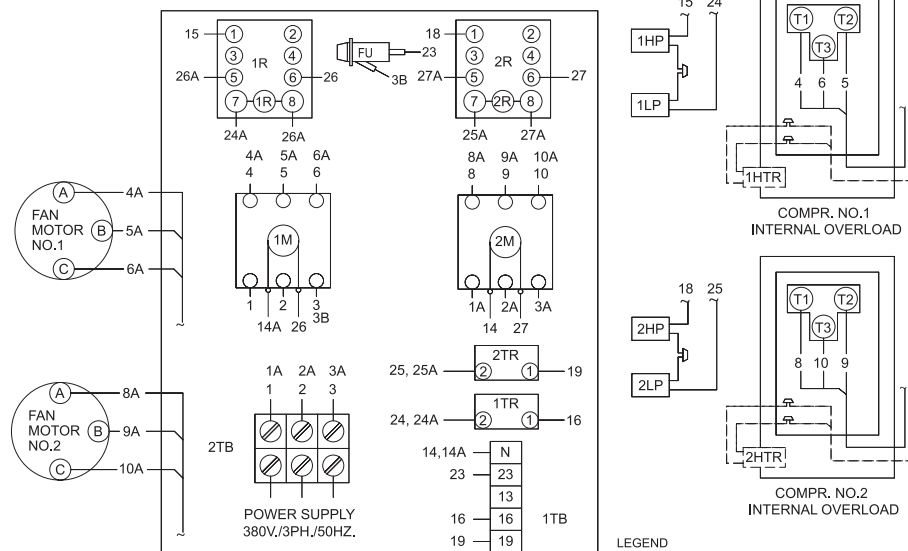
Condensing Unit Wiring

TTA 150, 180, 200, 240 RD (Dual Circuit)

ELEMENTARY DIAGRAM



CONNECTION DIAGRAM



NOTES

- 1 ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.), CANADIAN ELECTRIC CODE AND/OR LOCAL STATE AND CITY CODES. PROVIDE DISCONNECTS FOR ALL POWER SUPPLIES.
- 2 DRAWING PRACTICES AND SYMBOLS ARE IN ACCORDANCE WITH AIR CONDITIONING & REFRIGERATION INSTITUTE (ARI) GRAPHIC ELECTRICAL STANDARDS.
- 3 NUMBERS ALONG LEFT SIDE OF ELEMENTARY DIAGRAM DESIGNATE LINE IDENTIFICATION, NUMBERS ALONG RIGHT SIDE ARE LOCATIONS OF RELAY CONTACTS.
- 4 COMPONENT TERMINAL MARKINGS ARE INDICATED BY ENCIRCLED NUMBERS AND/OR LETTERS.
- 5 NUMBERS ON VERTICAL & HORIZONTAL LINE ARE CIRCUIT IDENTIFICATION.
- 6 MOTORS ARE INHERENTLY PROTECTED.
- 7 THIS UNIT TO BE USED WITH EVAPORATORS OPERATING WITH IN A TEMPERATURE RANGE OF 32°F TO 53.5°F.

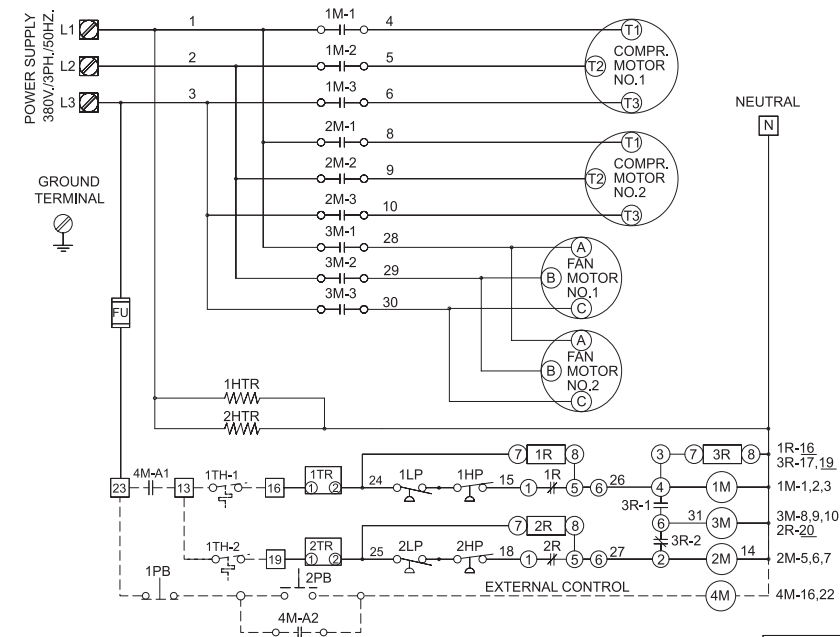
LEGEND

- FU FUSE 5 AMP.
 1HP,2HP CONTROL,HIGH PRESS.
 (OPEN : 398 PSIG,CLOSE : 313 PSIG)
 1LP,2LP CONTROL,LOW PRESS.
 (OPEN : 27 PSIG,CLOSE : 46 PSIG)
 1M,2M CONTACTOR,COMPRESSOR
 1R,2R RELAY,CONTROL LOCKOUT
 1HTR,2HTR HEATER,CRANKCASE.
 1TR RELAY,TIME DELAY 3 MIN.
 2TR RELAY,TIME DELAY 4.5 MIN.
 3M CONTACTOR,EVAP.BLOWER MOTOR
 1PB,2PB SWITCH PUSH BOTTON
 1TH THERMOSTAT 2 STAGES.
 1TB-TERMINAL BLOCK CONTROL CIRCUIT
 2TB-TERMINAL BLOCK HIGH VOLTAGE
 FACTORY WIRING & DEVICES BY MFR.
 --- FIELD WIRING (OPTION)
 A1,A2 AUXILIARY CONTACT(N.O.) OF 3M

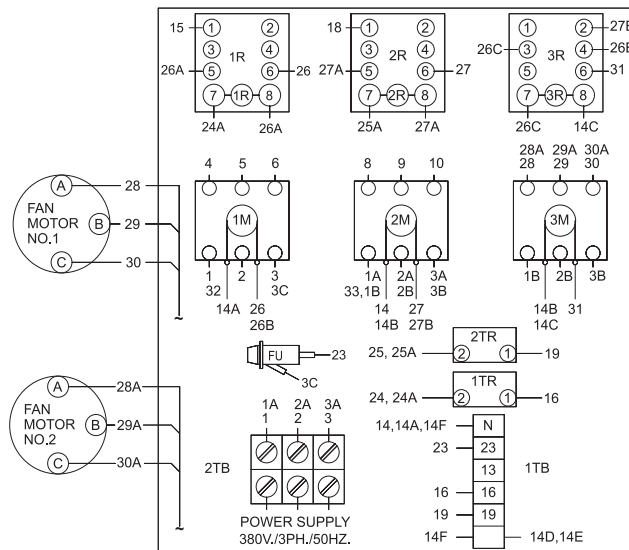
Condensing Unit Wiring

TTA 150, 180, 200, 240 RD0G (Manifold compressors)

ELEMENTARY DIAGRAM

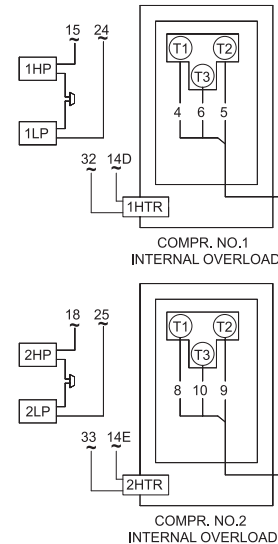


CONNECTION DIAGRAM



NOTES

- 1 ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.) CANADIAN ELECTRIC CODE AND/OR LOCAL STATE AND CITY CODES. PROVIDE DISCONNECTS FOR ALL POWER SUPPLIES.
- 2 DRAWING PRACTICES AND SYMBOLS ARE IN ACCORDANCE WITH AIR CONDITIONING & REFRIGERATION INSTITUTE (ARI) GRAPHIC ELECTRICAL STANDARDS.
- 3 NUMBERS ALONG LEFT SIDE OF ELEMENTARY DIAGRAM DESIGNATE LINE IDENTIFICATION. NUMBERS ALONG RIGHT SIDE ARE LOCATIONS OF RELAY CONTACTS.
- 4 COMPONENT TERMINAL MARKINGS ARE INDICATED BY ENCIRCLED NUMBERS AND/OR LETTERS.
- 5 NUMBERS ON VERTICAL & HORIZONTAL LINE ARE CIRCUIT IDENTIFICATION.
- 6 MOTORS ARE INHERENTLY PROTECTED.
- 7 THIS UNIT TO BE USED WITH EVAPORATORS OPERATING WITH IN A TEMPERATURE RANGE OF 32°F TO 53.5°F.

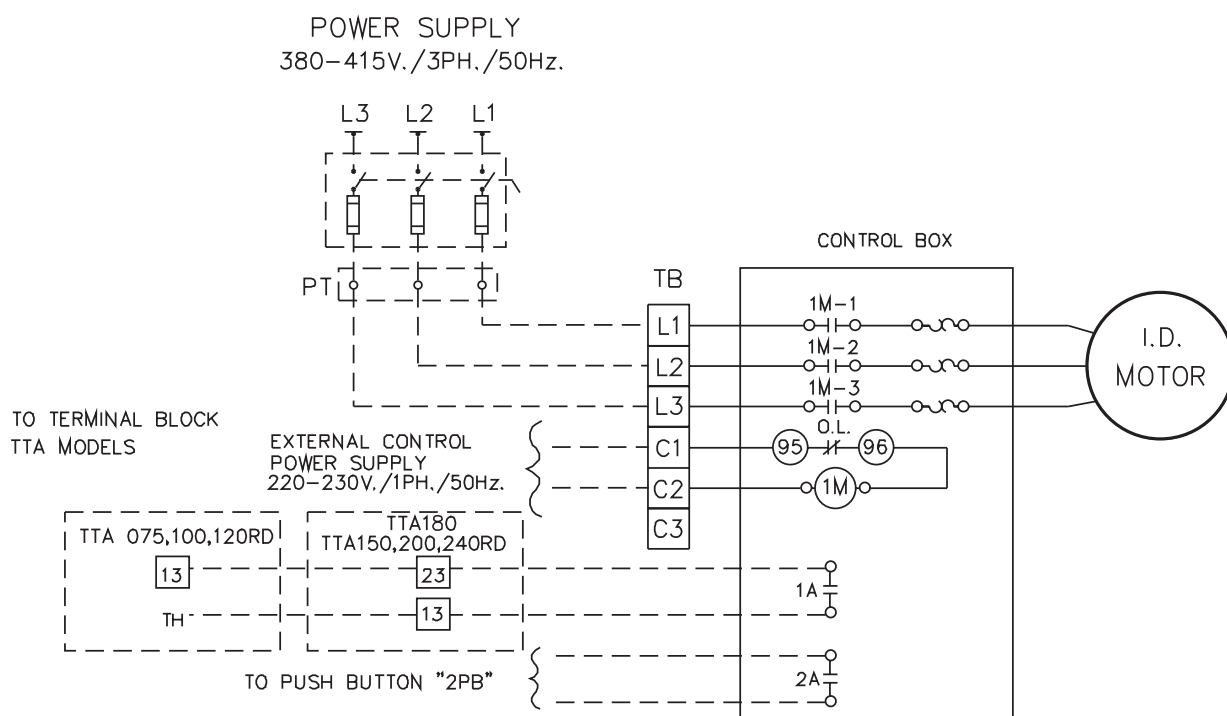


LEGEND

- FU FUSE 5 AMP.
 1HP,2HP CONTROL,HIGH PRESS.
 (OPEN : 398 PSIG,CLOSE : 313 PSIG)
 1LP,2LP CONTROL,LOW PRESS.
 (OPEN : 27 PSIG,CLOSE : 46 PSIG)
 1M,2M CONTACTOR,COMPRESSOR
 3M CONTACTOR,FAN MOTOR
 1R,2R,3R RELAY,CONTROL LOCKOUT
 1HTR,2HTR HEATER,CRANKCASE.
 1TR RELAY,TIME DELAY 3 MIN.
 2TR RELAY,TIME DELAY 4.5 MIN.
 4M CONTACTOR,EVAP,BLOWER MOTOR
 1PB,2PB SWITCH PUSH BOTTON
 1TH THERMOSTAT 2 STAGES.
 1TB-TERMINAL BLOCK CONTROL CIRCUIT
 2TB-TERMINAL BLOCK HIGH VOLTAGE
 FACTORY WIRING & DEVICES BY MFR.
 --- FIELD WIRING (OPTION)
 A1,A2 AUXILIARY CONTACT(N.O.) OF 4M

Air Handler Units

TTH060-100/TWE120-240 (EXPORT)



LEGEND	
DEVICE DESIGNATION	DESCRIPTION
1M	CONTACTOR BLOWER MOTOR.
TB	TERMINAL BLOCK
1A,2A	AUXILIARY N.O. CONTACT
TH	THERMOSTAT
2PB	SWITCH PUSH BUTTON
—	FACTORY WIRING & DEVICE BY MFR.
---	FIELD WIRING
ID. MOTOR	INDUCTION MOTOR
PT	POWER TERMINAL
—□—	FUSE

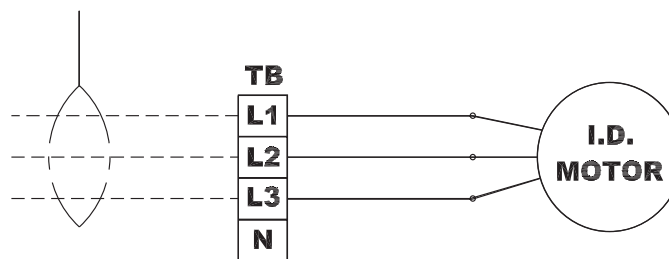
NOTES

1. ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.) CANADIAN ELECTRIC CODE AND/OR LOCAL STATE AND CITY CODES. PROVIDE DISCONNECTS FOR ALL POWER SUPPLIES.
2. DRAWING PRACTICES AND SYMBOLS ARE IN ACCORDANCE WITH AIR CONDITIONING & REFRIGERATION INSTITUTE (ARI) GRAPHIC ELECTRICAL STANDARDS.
3. COMPONENT TERMINAL MARKINGS ARE INDICATED BY ENCIRCLED NUMBERS AND/OR LETTERS.
4. NUMBERS ON VERTICAL & HORIZONTAL LINE ARE CIRCUIT IDENTIFICATION.
5. THIS UNIT TO BE USED WITH EVAPORATORS OPERATING WITH IN A TEMPERATURE RANGE OF 32°F TO 53.5°F.

Air Handler Units

TTH060-100/TWE120-240 (DOMESTIC)

**POWER SUPPLY
380V./3PH./50HZ.**

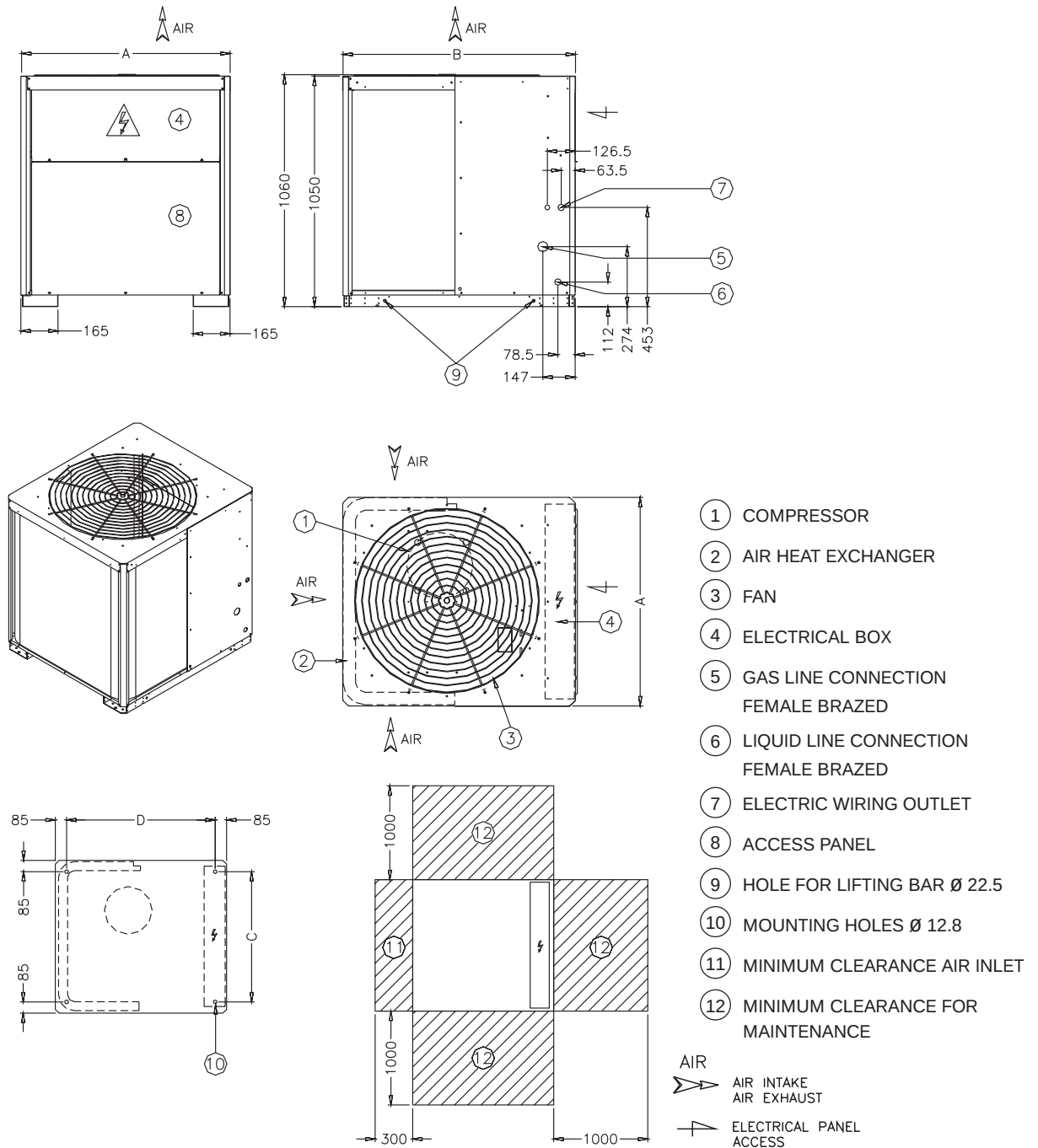


LEGEND	
DEVICE DESIGNATION	DESCRIPTION
TB	TERMINAL BLOCK
——	FACTORY WIRING & DEVICE BY MFR.
----	FIELD WIRING
ID. MOTOR	INDUCTION MOTOR 380V. 3PH. 50HZ.

Caution : Disconnect the power supply before opening the control box or servicing.

Condensing Unit Dimensional Data

TTA 075-100-120 RD00



Model	Dimension (mm)				Ø (Inch)	
	A	B	C	D	Ø 5	Ø 6
TTA 075	950	1060	778	888	1"1/8	1/2"
TTA 100	950	1060	778	888	1"3/8	1/2"
TTA 120	1050	1260	878	1088	1"3/8	1/2"

Technical drawings of the TTA series air conditioning unit, including front, top, and side views, and a legend.

Front View: Shows the unit with dimensions 1050 (width) and 1060 (height). The bottom flange has a width of 165 on each side. A section line "A-A" is indicated on the right.

Top View: Shows the unit from above with dimensions 1260 (width) and 1175 (depth). It includes details of the fan (3), electrical box (4), and access panels (8). Dimensions for the fan area are 1170 and 1260. The depth of the unit is 1050. The distance from the fan area to the right edge is 105. The distance from the fan area to the bottom edge is 245. The distance from the fan area to the right edge is 315. The distance from the fan area to the bottom edge is 320. The distance from the fan area to the right edge is 500.

Side View: Shows the unit from the side with dimensions 1050 (width) and 1060 (height). It includes details of the fan (3), electrical box (4), and access panels (8). Dimensions for the fan area are 1170 and 1260. The depth of the unit is 1050. The distance from the fan area to the right edge is 105. The distance from the fan area to the bottom edge is 245. The distance from the fan area to the right edge is 315. The distance from the fan area to the bottom edge is 320. The distance from the fan area to the right edge is 500.

Legend:

- 1 COMPRESSOR
- 2 AIR HEAT EXCHANGER
- 3 FAN
- 4 ELECTRICAL BOX
- 5 GAS LINE CONNECTION FEMALE BRAZED
- 6 LIQUID LINE CONNECTION FEMALE BRAZED
- 7 ELECTRIC WIRING OUTLET
- 8 ACCESS PANEL
- 9 HOLE FOR LIFTING BAR ϕ 22.5
- 10 MOUNTING HOLES ϕ 12.8
- 11 MINIMUM CLEARANCE AIR INLET
- 12 MINIMUM CLEARANCE FO MAINTENANCE

Table 1: Unit Dimensions

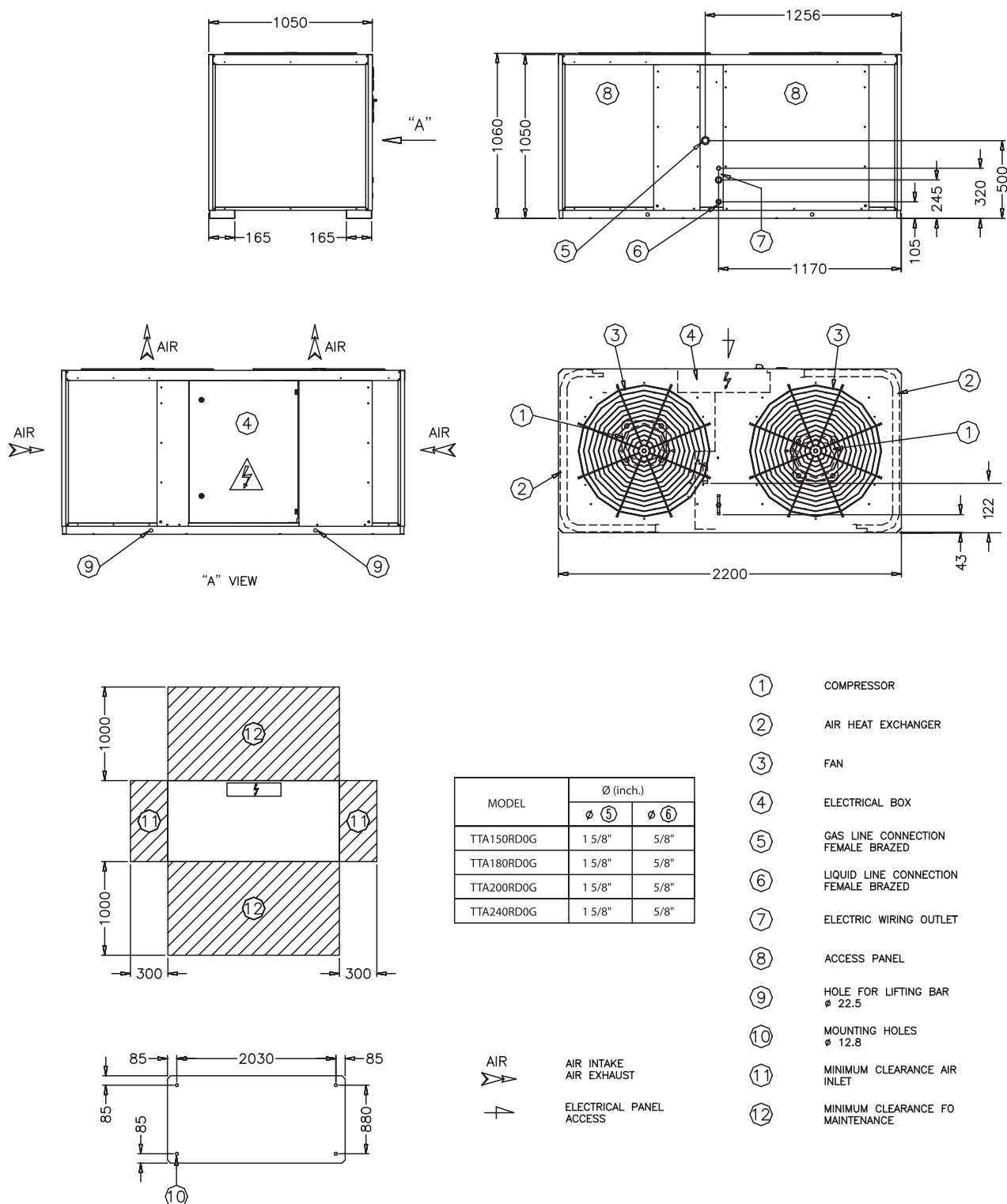
MODEL	ϕ (inch.)	ϕ (inch.)
TTA150RD	1 1/8"	1/2"
TTA180RD	1 3/8"	1/2"
TTA200RD	1 3/8"	1/2"
TTA240RD	1 3/8"	1/2"

Table 2: Unit Dimensions

MODEL	Width (mm)	Height (mm)	Depth (mm)
TTA150RD	1050	1060	1175
TTA180RD	1050	1060	1175
TTA200RD	1050	1060	1175
TTA240RD	1050	1060	1175

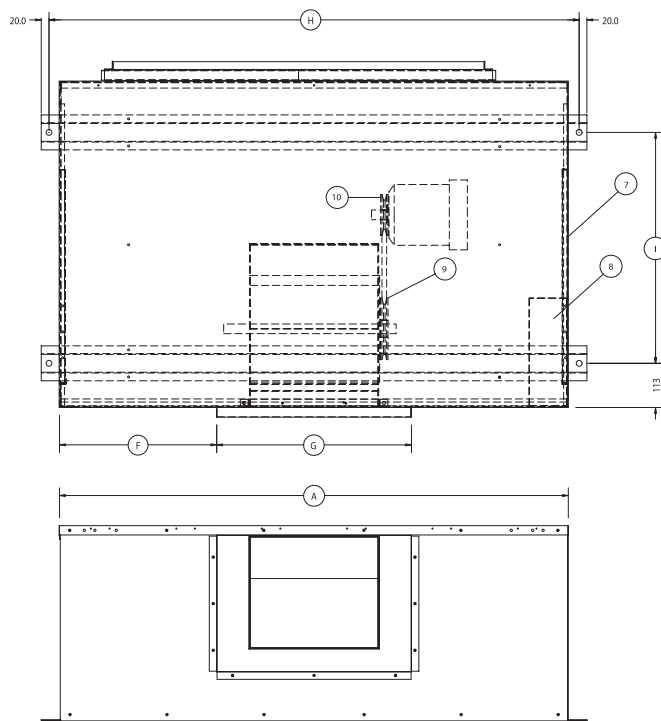
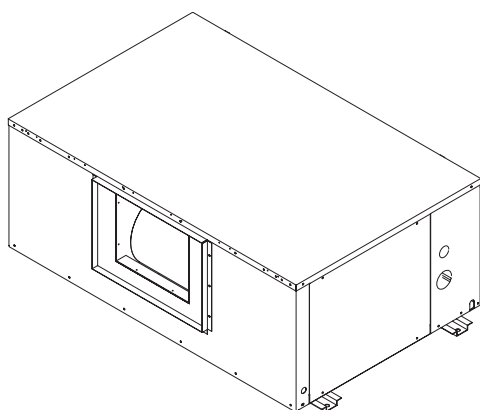
Condensing Unit Dimensional Data

TTA 150-180-200-240 RD0G (Manifold compressor)

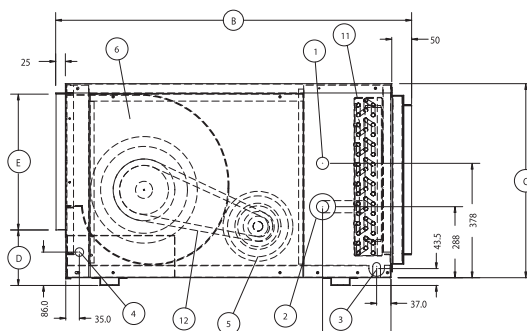


Air Handler Unit Dimensional Data

TTH 060-075 BD



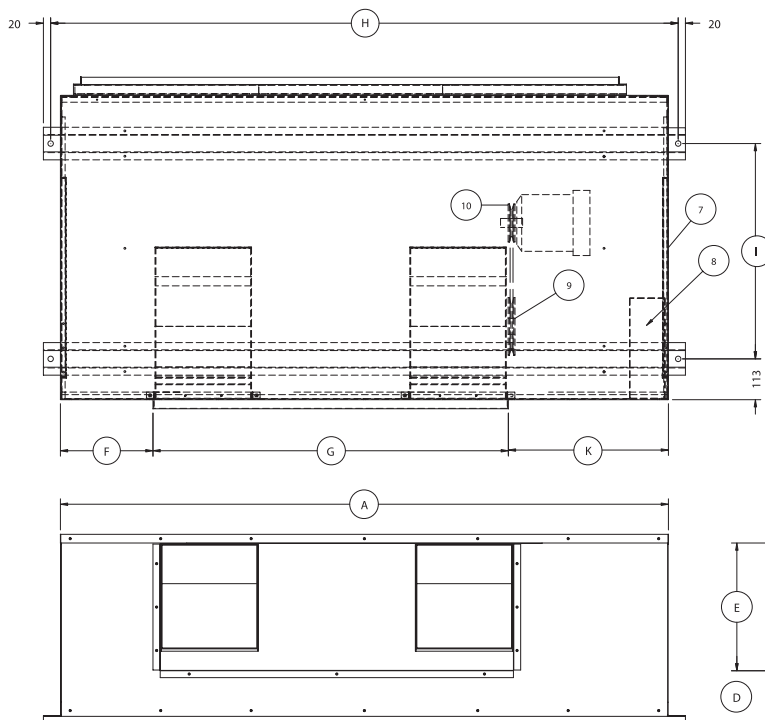
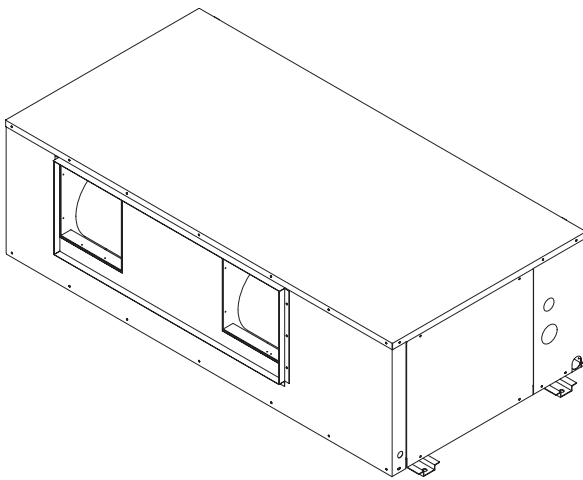
- ① LIQUID LINE Ø 3/8" FOR TTH060
LIQUID LINE Ø 1/2" FOR TTH075
- ② SUCTION LINE Ø 1 1/8"
- ③ DRAIN TUBE Ø 1"
- ④ HOLE FOR POWER WIRING Ø 7/8" KO.
- ⑤ MOTOR
- ⑥ BLOWER
- ⑦ ACCESS PANEL
- ⑧ ELECTRICAL BOX
- ⑨ FAN PULLEY
- ⑩ MOTOR PULLEY
- ⑪ EVAPORATOR COIL
- ⑫ BELT



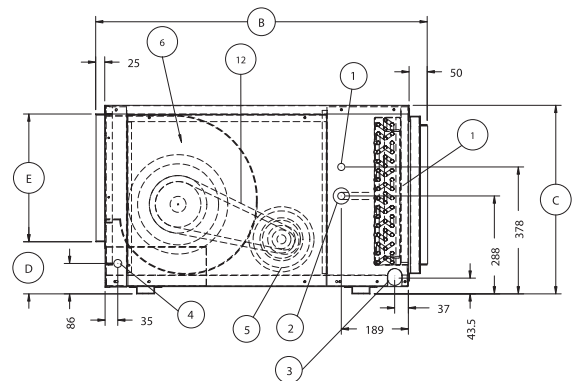
Model	Dimension (mm)								
	A	B	C	D	E	F	G	H	I
TTH 060	1312	916	520	143	352	405	502	1366	595
TTH 075	1312	916	520	143	352	405	502	1366	595

Air Handler Unit Dimensional Data

TTH 100 BD



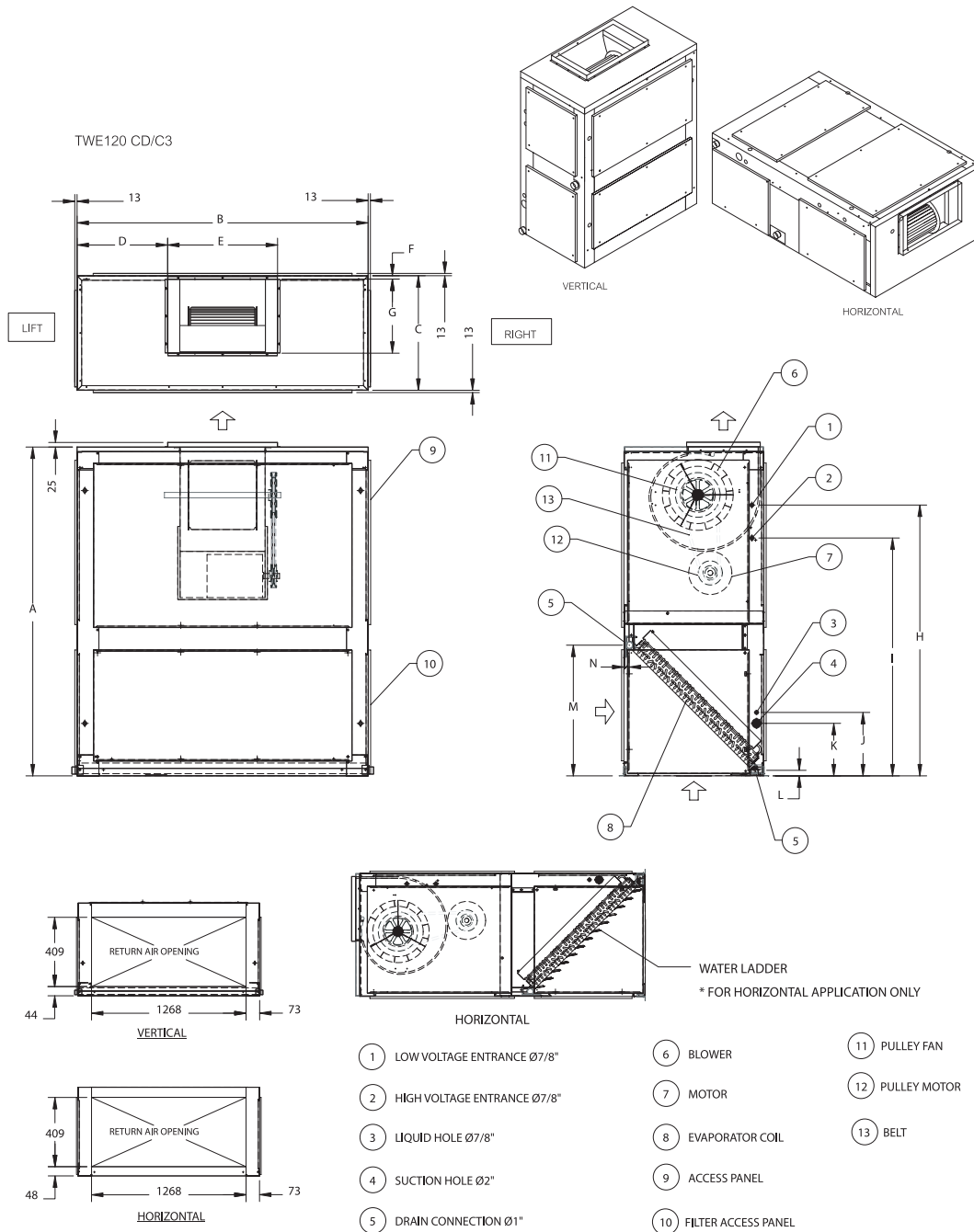
- ① LIQUID LINE Ø 1/2" FOR TTH100
- ② SUCTION LINE Ø 1 3/8"
- ③ DRAIN TUBE Ø 1"
- ④ HOLE FOR POWER WIRING Ø 7/8" KO.
- ⑤ MOTOR
- ⑥ BLOWER
- ⑦ ACCESS PANEL
- ⑧ ELECTRICAL BOX
- ⑨ FAN PULLEY
- ⑩ MOTOR PULLEY
- ⑪ EVAPORATOR COIL
- ⑫ BELT



Model	Dimension (mm)									
	A	B	C	D	E	F	G	H	I	K
TTH 100	1680	916	521	144	353	294	946	1734	595	440

Air Handler Unit Dimensional Data

TWE 120 CD

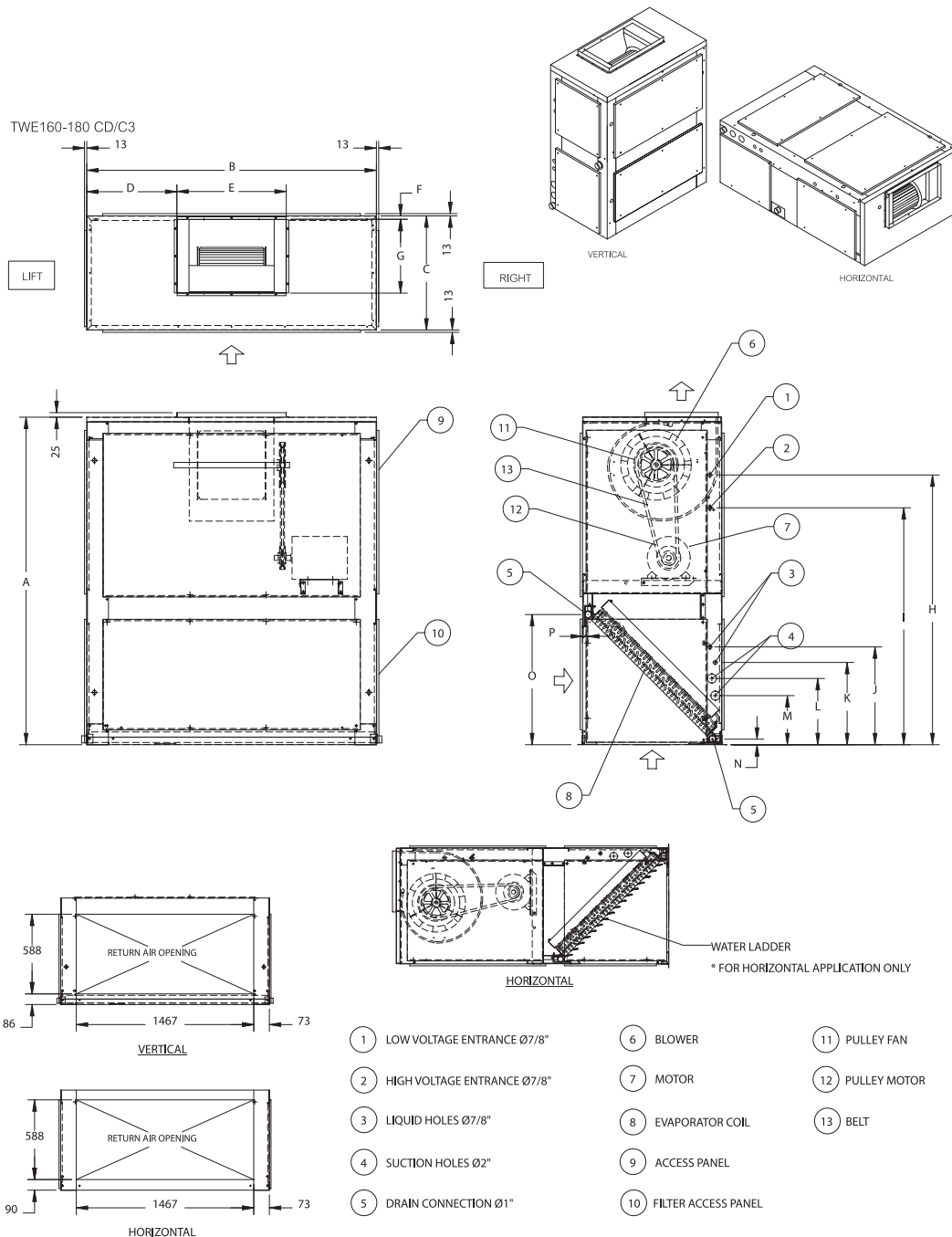


Model No.	Dimensions mm.						
	A	B	C	D	E	F	G
TWE120	1523	1410	635	402	606	20	408

Model No.	Dimensions mm.						
	H	I	J	K	L	M	N
TWE120	1200	1018	465	405	30	578	282

Air Handler Unit Dimensional Data

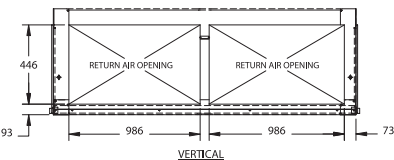
TWE 160-180 CD



Model No.	Dimensions mm.							
	A	B	C	D	E	F	G	H
TWE160/180	1751	1613	850	463	686	20	530	1429

Model No.	Dimensions mm.							
	I	J	K	L	M	N	O	P
TWE160/180	1248	493	392	298	240	30	774	29

TWE210-240 CD/C3

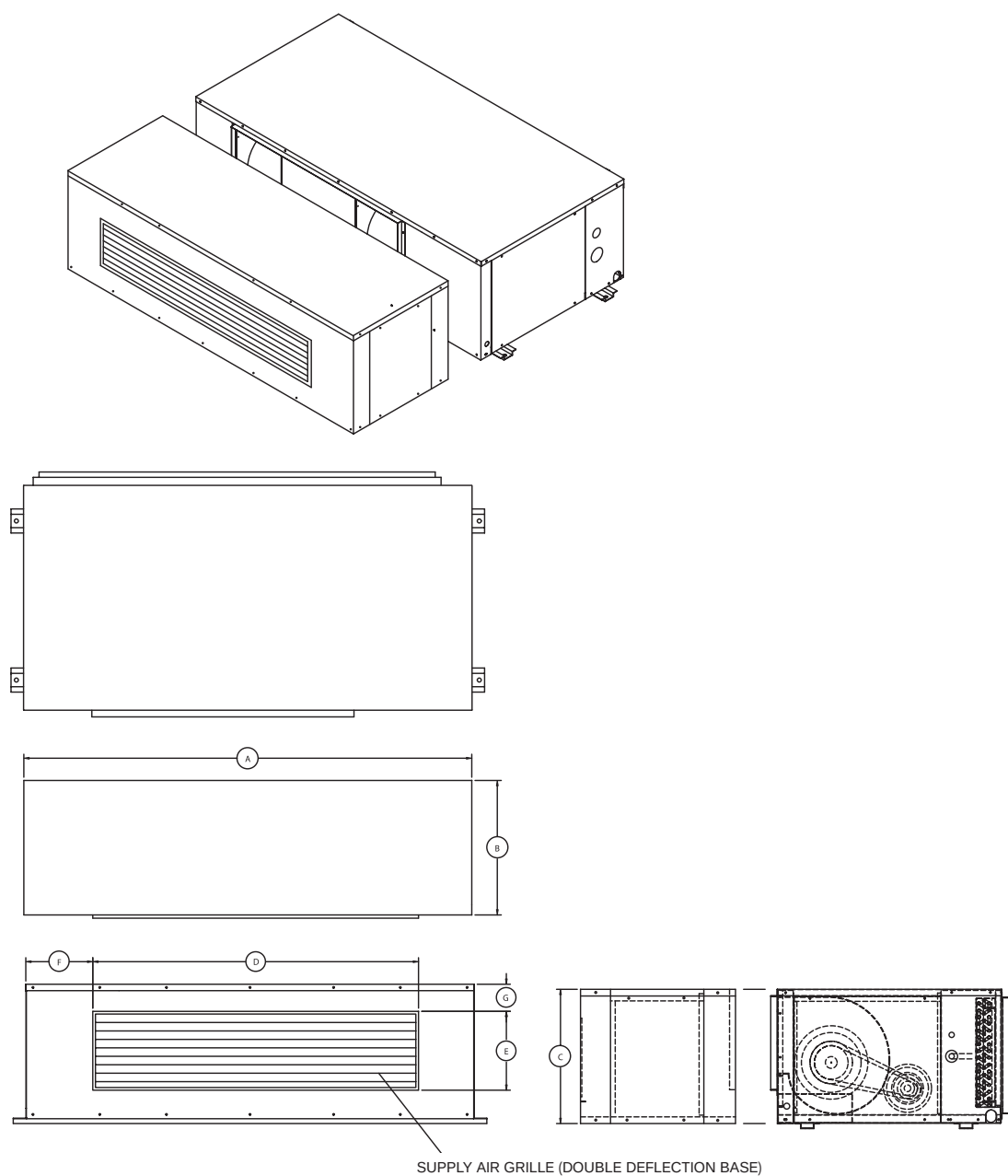


Model No.	Dimensions mm.								
	A	B	C	D	E	F	G	H	I
TWE210/240	1751	2210	702	408	1394	44	410	1429	1248

Model No.	Dimensions mm.								
	J	K	L	M	N	O	P	Q	R
TWE210/240	492	335	265	218	152	105	30	652	29

Air Handler Unit Dimensional Data

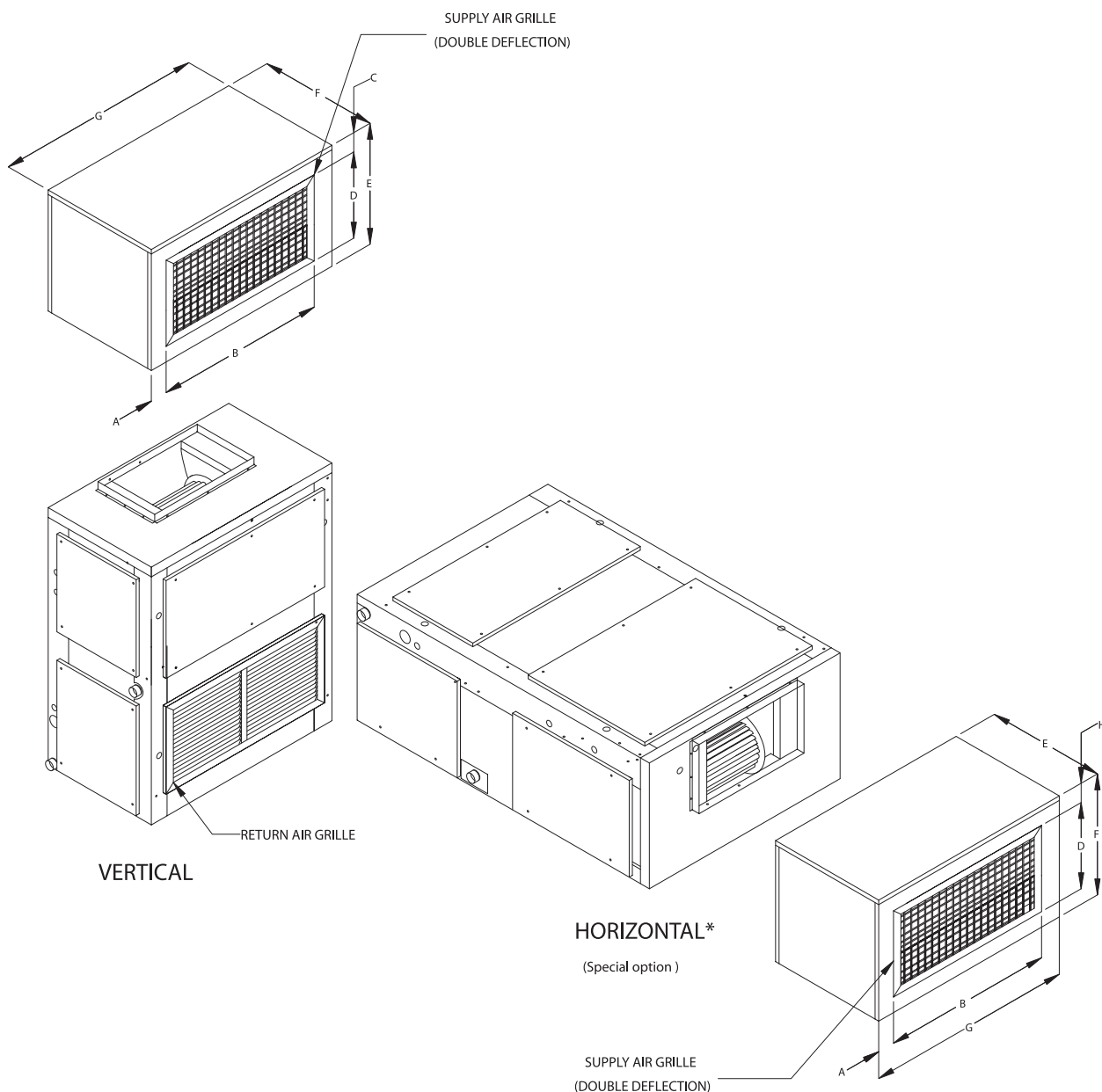
TTH 060-100 BD With Plenum (Option)



Model	Dimension (mm)						
	A	B	C	D	E	F	G
TTH 060	1312	499	503	762	305	275	100.5
TTH 075	1312	499	503	965	305	173.5	100.5
TTH 100	1680	499	503	1270	305	205	100

Air Handler Unit Dimensional Data

TWE 120, 160, 180 CD/C3 With Plenum (Option)

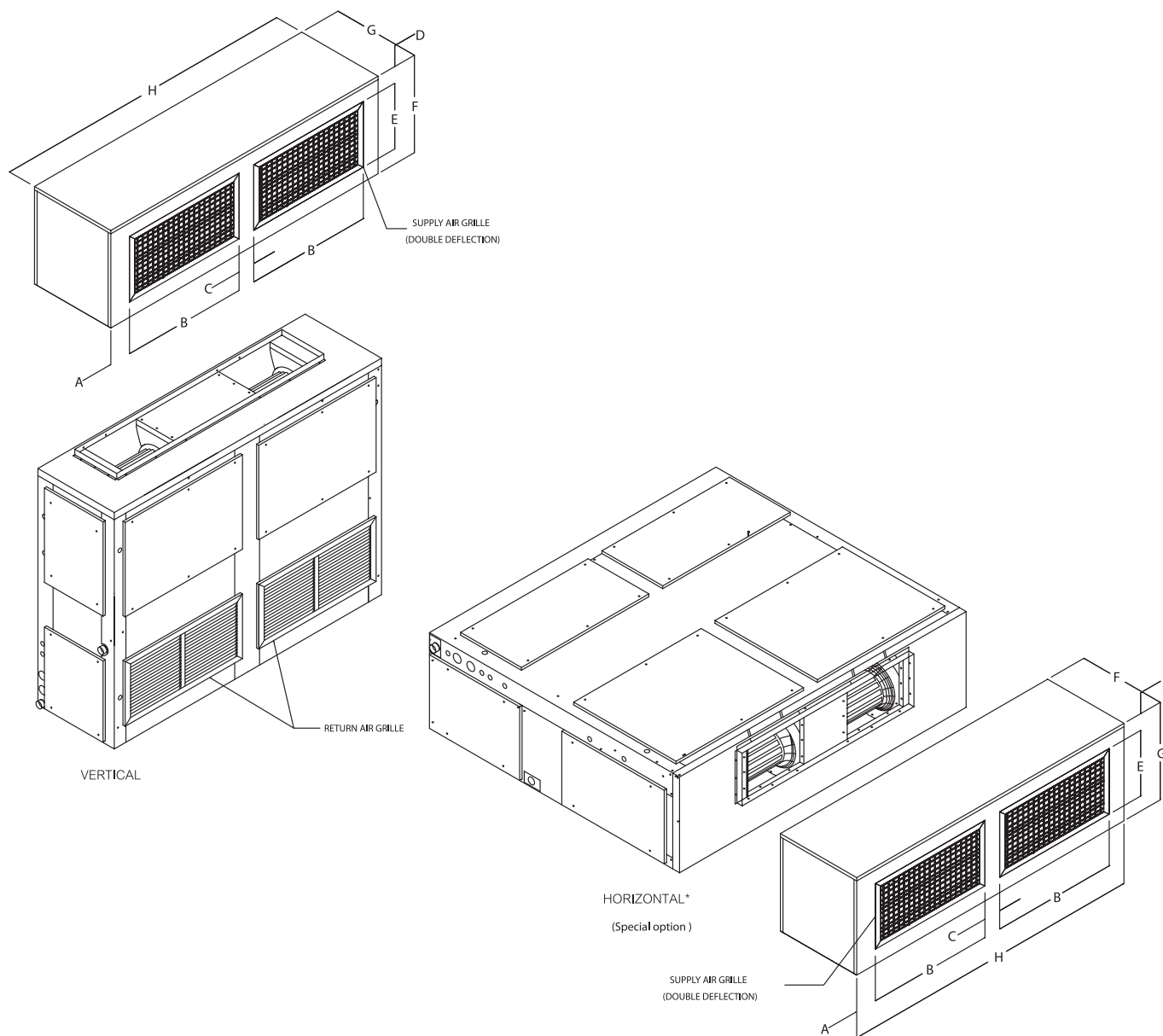


Model No.	Dimensions (mm.)							
	A	B	C	D	E	F	G	H
TWE120	204	1006	48	498	604	646	1416	74
TWE160	216	1184	48	549	654	852	1615	152
TWE180	50	1514	48	549	654	852	1615	152

Note: Horizontal applications with discharge plenum is special option, please contact Trane sales office.

Air Handler Unit Dimensional Data

TWE 180-240 CD/C3 With Plenum (Option)



Model No.	Dimensions (mm.)								
	A	B	C	D	E	F	G	H	I
TWE210	164	905	79	48	498	604	704	2216	103
TWE240	62	1006	79	48	498	604	704	2216	103

Note: Horizontal applications with discharge plenum is special option, please contact Trane sales office.

Mechanical Specification

Condensing Units

General

Unit shall be assembled on heavy gauge steel mounting/lifting rails and shall be weather proofed. Units shall include a hermetic scroll compressor (s), slit fin condenser coil, fans and motors, controls and holding charge of R-22. Operating range shall be between 120°F and 35°F in cooling as standard from the factory. Units rated in accordance with ARI Standard 210 and 270.

Casing

Unit casing shall be constructed of zinc coated heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized and finished with a polyester powder painting and weather-resistant baked enamel finish. Units surface shall be tested 500 hours in salt spray test. Units shall have removable end panels which allow access to all major components and controls.

Refrigeration System

Single compressor

TTK060, TTA075, TTA100 and TTA120 model shall have a single refrigeration circuit with an integral subcooling circuit. A refrigeration filter drier shall be provided as standard for TTA models. The TTK060, TTA075, TTA100 and TTA120 shall have both a liquid line and suction gas line service valve with gauge port and one direct drive hermetic scroll compressor with centrifugal oil pump providing positive lubrication to moving parts. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage.

Internal temperature and current-sensitive motor overloads shall be included for maximum protection. Scroll type compressor shall provide inherently low vibration and noise by having no suction and discharge valves. External high and low pressure cutout devices shall be provided.

Refrigeration System

Dual Compressor

TTA150, 180, 200, and 240 RD00 shall have two separate and independent refrigeration circuits. Each refrigeration circuit shall have an integral subcooling circuit. A refrigeration filter drier shall be provided as standard for TTA models. TTA150, TTA180, TTA200 and TTA240 shall have two direct drive hermetic scroll compressors with centrifugal oil pump and provide positive lubrication to all moving parts. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage. Internal temperature and current-sensitive motor overloads shall be included for maximum protection. External high and low pressure cutout devices shall be provided.

Refrigeration System (Optional)

Manifolded Compressor

TTA150, 180, 200, and 240 RD0G units shall have a single refrigeration circuit with an integral subcooling circuit. A refrigeration filter drier shall be provided as standard. Units shall have both a liquid line and suction gas line service valve with gauge port.

The units shall have two scroll compressors manifolded together. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage.

Condenser Coil

Coil shall be internally finned of smooth bore 3/8" copper tubes mechanically bonded to configured aluminum plate fin as standard. Factory pressure and leak tested to 400 psig air pressure. For coil protection is optional.

Condenser Fan and Motor (s)

Direct-drive, statically and dynamically balanced 28 inch propeller fan (s) with aluminum blades and electrocoated steel hubs shall be used in draw-through vertical discharge position. Either permanently lubricated totally enclosed or open construction motors shall be provided and shall have built in current and thermal overload protection. Motor (s) shall be ball bearing type.

Controls

Condensing units shall be completely factory wired with necessary controls and contractor pressure lugs or terminal block for power wiring. Control wiring shall be 220 volt control circuit which includes fusing. Units shall provide external location for mounting a fused disconnect device.

Time Delay Relay

Shall prevent compressors in single and dual compressor unit from coming on line simultaneously. Timer shall be 220 volt, with three minutes timing period for single compressor. Timer will be three minutes and four and a half minutes for dual circuit in the first and second compressor, respectively.

Accessories

Copper fin/Blue fin shall protect corrosion on sea coast application.

Mechanical Specification

Air Handling Units

General

Air handler units shall be completely factory assembled including coil, condensate drain pan, fan motor(s), filters and controls in an insulated casing that can be applied in vertical or horizontal in the case or TWE120, TWE160, TWE180, TWE 210 and TWE240 or dedicated horizontal in the case or TTH060, TTH075 and TTH100. Units shall be rated and tested in accordance with ARI standard 210.

Casing

Units casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized and finished with a polyester powder painted and weather resistant baked enamel finish. Casing is completely insulated with polyethylene foam. Knockouts shall be provided for unit electrical power and refrigerant piping connections.

Refrigeration System

The TTH060, TTH075, TTH100 and TWE120 units shall have a single refrigeration circuit and the TWE 160, TWE180 TWE210 and TWE240 units shall have dual refrigeration circuits. Each refrigeration circuit is controlled by a factory installed with the expansion device.

Evaporator coil

Configured aluminum fin surface shall be mechanically boned to 3/8" internally enhanced copper tubing and factory pressure and leak tested at 250 psig. Coil is arranged for draw through airflow and shall provide condensate drain pan constructed of removable plastic for TWE models, galvanized steel with rubber insulator, polyester powder painted and weather-resistant baked enamel finish drain pan for TTH models.

Evaporator Fan

Double inlet, double width, forward curved, centrifugal-type fan (s) with adjustable belt drive shall be standard. Thermal overload protection shall be standard on motor. Fan and motor bearings shall be permanently lubricated. Oversized motors shall be available as an option for high static application.

Controls

Magnetic evaporator fan contactor, 220 voltage terminal strip, (For export only) and single point power entry shall be included. All necessary controls shall be factory-installed and wired.

Filters

One inch, aluminium washable filters shall be standard on air handlers. Filters shall be accessible from the side coil access panel.

Accessories

Oversized Motors

Field installed oversized motors shall be available for high static pressure applications.

Discharge Plenum

Accessory discharge plenums shall be available for free blow. Please see picture at page 39-41

Return Air Grille (For TWE model only)

Accessory return air grille shall be provided for free return air application.



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Literature Order Number SSA5-PRC 002-EN-1007

Supersedes SSA5-PRC 002-EN-0504

Stocking Location Bangkok, Thailand

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Since The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.