Product Bulletin

YUKON

Tall Floor Split Systems
3-10 Tons
Cooling Only
MCV Series 50/60 Hz

50 Hz Models
Cooling Only
MCV 036 BB
MCV 048 BB
MCV 060 BB
MCV 090 BB
MCV 120 BB

60 Hz Models
Cooling Only
MCV 036 B1
MCV 048 B1
MCV 060 B1
MCV 090 B1
MCV 120 B1

June 2011 **MCV-SVB01A-EN**

Features and Benefits

YUKON – Human Comfort Solution

Comfort and Reliability
- Full Range of Capacity.
- Energy Savings.
- Washable Filter.
- Low Maintenance.
- Easy to Service.
- Lower Noise.

Quality
All major components are individually inspected and tested, and every unit undergoes a run-test prior to shipment from the factory.

High Efficiency
- Compact in size for easy installation into small spaces.
- Galvanized steel with a powder paint finish for corrosion resistance.
- Synchronus motor for supply grille as standard for better airflow.

Serviceability
The unit can be easily serviced and minimum area required just only at the front after panel.

Condensing Unit

TTK Condensing Units
Features and Benefits
- High efficiency unit with reliable aluminum fin.
- Compact unit size allows for installation in limited or confined spaces.

Optional
- Blue fin, Copper fin
- Stainless casing
- 45 degree louver

TTA075-120

Micro processor controller

TTA075-120

TTA Condensing Units Standard Feature	Benefits
• Powder paint finish.	• Full covering of all edges and a uniform paint finish for a smooth, attractive and durable cabinet exterior.
• Innovative cabinet design.	• The most attractive light commercial condensing unit available.
• Refrigerant accessories as standard.	• Each unit ships standard with the liquid and suction lines shut-off valve, hi-low pressure controls, liquid line filter drier.
• Single and dual compressors	• Optimized operation and reduced service time.
Optional	
• Stainless casing / Copper fin / Blue fin / Aeris coating	• Designed to provide corrosion protection on sea coast application.
• Manifolding single circuit (for TTA150-240).	• More efficiency at part load.
• Micro processor controller	• Troubleshooting status display helps reduce service time. • Extend compressor life time by balancing compressor loading.
• Horizontal air discharge (for TTA075-120)	• Flexible application when vertical space limited.
• Wire Guard.	• Protect coil from delivery damage.

Contents

System Performance Matrix

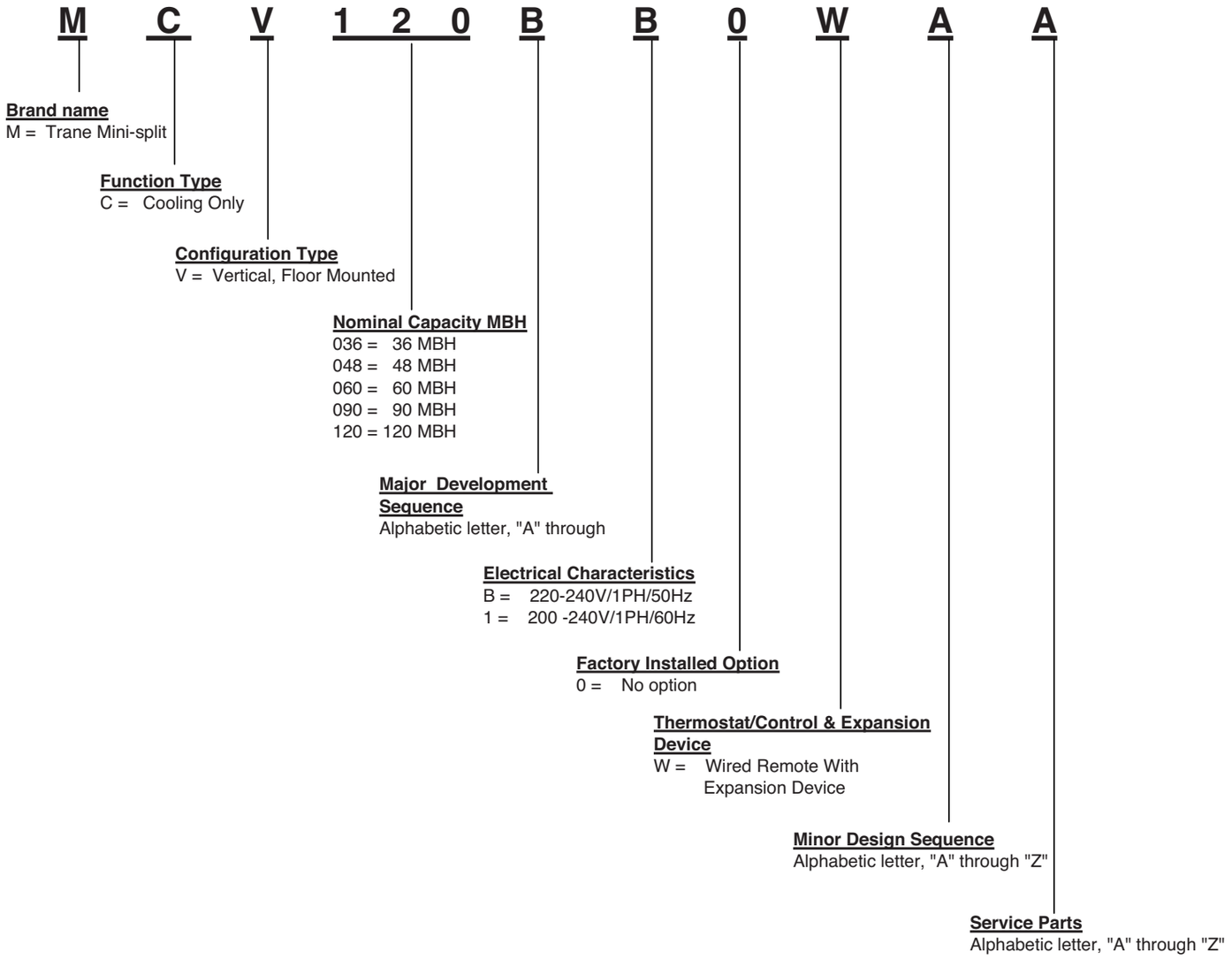
System Performance Matrix : 50 Hz

Indoor Unit	Outdoor Unit	Total capacity MBH	Evaporator CFM	Power Input kW
MCV036BB	TTK536QB	37.3	1200	3.96
	TTK536QD	37.0		3.96
MCV048BB	TTK042KD	42.0	1400	4.74
	TTK048KD	50.4		5.32
MCV060BB	TTK060KD	60.0	1600	6.35
MCV090BB	TTA075RD	75.0	2400	8.26
	TTA100RD	100.0		10.44
MCV120BB	TTA120RD	120.0	3200	11.39

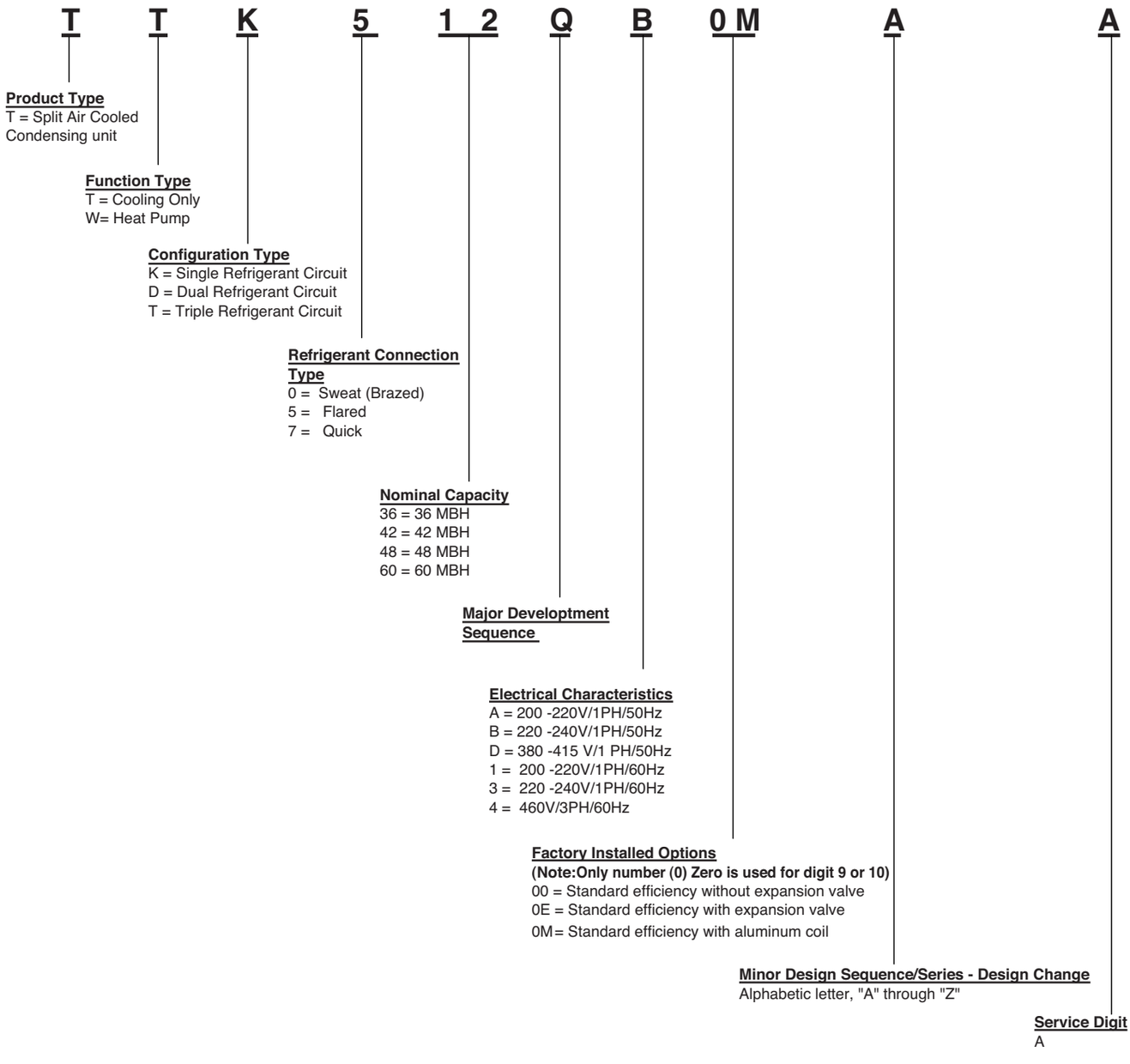
System Performance Matrix : 60 Hz

Indoor Unit	Outdoor Unit	Total capacity MBH	Evaporator CFM	Power Input kW
MCV036B1	TTK536Q1	36.0	1200	3.81
MCV048B1	TTK042K1	42.9	1400	4.75
	TTK048K1	48.0		4.88
MCV060B1	TTK060K1	61.5	1600	6.24
	TTK060K3	61.5		6.13
MCV090B1	TTA075R3	76.9	2400	8.32
	TTA100R3	102.8		10.53
MCV120B1	TTA120R3	126.0	3200	12.55

Model Nomenclature



Model Nomenclature



Model Nomenclature

Air-Cooled Condensing Unit
Model Nomenclature

T T A 1 2 0 R D 0 0 Q A

Product Type
TTA = Cooling Only Condensing Unit

Nominal Gross Cooling Capacity (MBH)
075 = 75 MBH
100 = 100 MBH
120 = 120 MBH

Refrigerant Type
R = R22

Electrical Characteristics
D = 380-415/3/50
3 = 230/3/60
K = 380/3/60

Factory Installed Options # 1
(Standard Factory Installed Option)
0 = Vertical discharge w / Service Valve (for TTA075 to 120)
A = Vertical discharge w / Access Valve (for TTA075 to 120)
B = Horizontal discharge w / Service Valve (for TTA075 to 120)
C = Horizontal discharge w / Access Valve (for TTA075 to 120)

Factory Installed Options # 2
(Special Factory Installed Option)
0 = No Option
E = Copper Fin
F = Blue Fin

Minor Design Sequence
M = First Design Sequence
P = Second Design Sequence
Q = Third Design Sequence

Service Digit
A = First Parts List

General Data

General Data Floor Standing Unit, 50 Hz

UNIT MODELS		MCV036BB	MCV048BB	MCV060BB	MCV090BB	MCV120BB
POWER CONNECTION	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
MCA[1]	A	2.23	2.93	4.28	4.45	5.85
SYSTEM DATA						
Refrigerant Type		R22	R22	R22	R22	R22
No. Refrigerant Circuits		1	1	1	1	1
Refrigerant Connection Type		Sweat	Sweat	Sweat	Sweat	Sweat
Suction Line OD	in (mm)	3/4 (19.05)	7/8 (22.23)	7/8 (22.23)	1-1/8 (28.58)	1-3/8 (34.93)
Liquid line OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	1/2 (12.7)	1/2 (12.7)
CASING						
Material		Galvanized & Electro-galvanized Steel				
Color		Light Gray				
Type of Insulation		PE Foam				
COIL						
Face Area	sq ft	3.50	4.50	5.33	6.58	8.63
	(m2)	(0.33)	(0.42)	(0.50)	(0.61)	(0.80)
Tube Type		Inner Groved	Inner Groved	Inner Groved	Inner Groved	Inner Groved
Rows		3	3	4	4	4
Fin Type		Uncoated Slitted	Uncoated Slitted	Uncoated Slitted	Uncoated Slitted	Uncoated Slitted
Fins per inch		16	16	16	14	16
Refrigerant Flow Control		Capillary Tube	Capillary Tube	Capillary Tube	Expansion Valve	Expansion Valve
Drain Connection Size	in (mm)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
Drain Connection Type		Flexible Hose	Flexible Hose	Flexible Hose	Flexible Hose	Flexible Hose
FAN						
Fan Type		Single Inlet Centrifugal				
No. used		1	1	1	2	2
Diameter	in (mm)	15 (381)	15 (381)	16 (406)	15 (381)	15 (381)
Width	in (mm)	7 (178)	7 (178)	7 (178)	7 (178)	7 (178)
Drive Type		Direct	Direct	Direct	Direct	Direct
MOTOR						
Motor Type		Permanent Split Capacitor				
No. of Motor		1	1	1	2	2
Motor Power Output	Watt	122	211	258	122	211
No. of Speed		3	3	3	3	3
Motor Speed	rpm	550/450/400	650/550/450	600/550/500	550/450/400	650/550/450
V/ph/Hz		220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
RLA/LRA		1.78/1.97	2.34/2.74	3.42/3.90	1.78/1.97	2.34/2.74
FILTER						
Type		Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
No. used		1	1	1	2	2
DIMENSION (HxWxD)						
Crated (Shipping)	in	81.1x26.8x17.7	81.1x26.8x17.7	81.1x36.6x18.9	81.1x50.4x18.9	81.1x50.4x18.9
	(mm)	(2060x680x450)	(2060x680x450)	(2060x930x480)	(2060x1280x480)	(2060x1280x480)
Uncrated (Net)	in	74.8x23.6x14.6	74.8x23.6x14.6	74.8x33.4x15.7	74.8x47.1x15.7	74.8x47.1x15.7
	(mm)	(1900x600x370)	(1900x600x370)	(1900x848x400)	(1900x1196x400)	(1900x1196x400)
WEIGHT						
Crated (Shipping)	lb (kg)	163 (73.9)	168.5 (76.4)	225.5 (102.3)	325 (147.4)	340.5 (154.4)
Uncrated (Net)	lb (kg)	141.5 (64.2)	147 (67.7)	198 (89.8)	300.5 (136.3)	316 (143.3)

[1] MCA - Minimum Circuit Ampacity

General Data

General Data TTK 50 Hz

UNIT MODELS		TTK536QB	TTK536QD	TTK042KD	TTK048KD	TTK060KD
POWER CONNECTION	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
MCA[1, 3]	A	20.8	8.3	11.0	13.5	13.5
SYSTEM DATA						
Refrigerant Type		R-22	R-22	R-22	R-22	R-22
No. Refrigerant Circuits		1	1	1	1	1
Refrigerant Connection Type		Flare	Flare	Sweat	Sweat	Sweat
Refrigerant Charge	lb (kg)	4.41 (2.00)	4.41 (2.00)	5.06 (2.30)	7.28 (3.30)	8.82 (4.00)
Suction Line OD	in (mm)	3/4 (19.05)	3/4 (19.05)	7/8 (22.23)	7/8 (22.23)	7/8 (22.23)
Liquid line OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	1/2 (12.7)	1/2 (12.7)
COMPRESSOR						
Compressor Type		Rotary	Rotary	Scroll	Scroll	Scroll
No. Used		1	1	1	1	1
V/ph/Hz		220/1/50	380/3/50	380/3/50	380/3/50	380/3/50
RLA/LRA		15.8 / 79.0	5.9 / 43.0	8.0 / 62.0	9.6 / 70.0	9.6 / 82.0
COIL						
Face Area	sq ft (m^2)	7.29 (0.68)	7.29 (0.68)	7.29 (0.68)	7.08 (0.66)	7.08 (0.66)
Tube Size OD	in (mm)	-	-	5/16 (7.93)	5/16 (7.93)	5/16 (7.93)
Tube Size (W x T x Ch)	(mm x mm x no.)	16 x 1.8 x 18		-	-	-
Tube Type		Aluminum, 18 Channels		Inn. Grv.	Inn. Grv.	Inn. Grv.
Rows		-	-	2	3	3
No. of Tube		76	76	-	-	-
Fin Type		Aluminum Uncoated		Uncoated Corrugated		
No. of Refrigerant Path		4	4	-	-	-
Fins per inch		-	-	20	16	20
Refrigerant Flow Control		-	-	-	-	-
FAN						
Fan Type		Propeller	Propeller	Propeller	Propeller	Propeller
No. used		1	1	1	1	1
Diameter	in (mm)	20 (508)	20 (508)	20 (508)	20 (508)	20 (508)
No. of Blade		4	4	4	3	3
Pitch Angle	degree	30	30	30	32	32
Drive Type		Direct	Direct	Direct	Direct	Direct
Nominal Airflow[2]	cfm (cmh)	2130 (3619)	2130 (3619)	2130 (3619)	1903 (3233)	1903 (3233)
MOTOR						
Motor Type		Permanent Split Capacitor				
No. of Motor		1	1	1	1	1
Motor hp	hp (kW)	1/6 (0.102)	1/6 (0.102)	1/6 (0.102)	1/4 (0.165)	1/4 (0.165)
No. of Speed		1	1	1	1	1
Motor Speed	rpm	900	900	900	900	900
V/ph/Hz		220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
RLA/LRA		1.03 / 1.79	1.03 / 1.79	1.03 / 1.79	1.45 / 2.68	1.45 / 2.68
DIMENSION (HxWxD)[4]						
Crated (Shipping)	in	33.8 x 45.0 x 16.9				
	(mm)	(858 x 1,144 x 430)				
Uncrated (Net)	in	31.3 x 40.0 x 14.2				
	(mm)	(795 x 1,018 x 360)				
WEIGHT						
Crated (Shipping)	lb (kg)	174.4 (79.1)	174.4 (79.1)	207.7 (94.4)	213.8 (97.0)	224.9 (102.0)
Uncrated (Net)	lb (kg)	158.5 (71.9)	158.5 (71.9)	191.8 (87.2)	191.8 (87.0)	202.8 (92.0)

[1] MCA - Minimum Circuit Ampacity ; calculated as follow : 125 % of compressor R.L.Amps plus the condenser fan motor R.L.Amps.
[2] CFM is rated with standard air-dry coil.
[3] At ARI system rating conditions 80°F-DB/67°F-WB indoor & 95°F-DB outdoor.
[4] For uncrated, outdoor unit's width and depth do not include the size of the mounting feet.
Abbreviation H = Height, W = Width, T = Thickness, Ch = Channel

General Data

General Data TTA 50 Hz

UNIT MODELS			TTA075RD	TTA100RD	TTA120RD
POWER CONNECTION		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
MCA[1]		A	18.06	27.29	29.95
SYSTEM DATA					
Refrigerant Type			R22	R22	R22
No. Refrigerant Circuits			1	1	1
Refrigerant Connection Type			BRAZE	BRAZE	BRAZE
Refrigerant Charge		lb (kg)		Holding Charge	
Suction Line OD		in (mm)	1 1/8 (28.6)	1 3/8 (34.9)	1 3/8 (34.9)
Liquid line OD		in (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
CASING					
Material			Galvanized & Electro-galvanized Steel		
Color			Light Gray		
Type of Insulation			-		
COMPRESSOR					
Compressor Type				Hermetic Scroll	
No. Used			1	1	1
V/ph/Hz			380/3/50	380/3/50	380/3/50
RLA/LRA			13.6 / 98	20.7 / 130	22.9 / 145
COIL					
Coil Size	(H)	in (mm)	32 (813)	36 (914)	36 (914)
	(L)	in (mm)	68 (1727)	64 (1626)	80 (2032)
Face Area		sq ft (m^2)	15.0 (1.40)	16.0 (1.48)	20.0 (1.86)
Tube Size OD		in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Tube Type			Plain	Inner Groove	Inner Groove
Rows			2	2	2
Fin Type				Uncoated Corrugate	
Fins per inch			16	16	16
Refrigerant Flow Control			-	-	-
FAN					
Fan Type			Propeller	Propeller	Propeller
No. used			1	1	1
Diameter		in (mm)	28 (711)	28 (711)	28 (711)
No. of Blade			4	4	4
Pitch Angle		degree	29	29	29
Drive Type			Direct	Direct	Direct
Nominal Airflow[2]		cfm (cmh)	4885 (8300)	5768 (9800)	6828 (11600)
MOTOR					
Motor Type				Three Phase Induction Motor	
No. of Motor			1	1	1
Motor Output		Watt	290	420	300
No. of Speed			1	1	1
Motor Speed		rpm	750	830	875
V/ph/Hz			380/3/50	380/3/50	380/3/50
RLA/LRA			1.06 / 2.27	1.41 / 3.53	1.32 / 2.80
DIMENSION (HxWxD)					
Uncrated (Net)		mm	1050x950x1060	1050x950x1060	1050x950x1260
WEIGHT					
Uncrated (Net)		kg	164	180	192

[1] MCA - Minimum Circuit Ampacity

[2] CFM is rated with standard air-dry coil.

General Data

General Data Floor Standing Unit, 60 Hz

UNIT MODELS		MCV036B1	MCV048B1	MCV060B1	MCV090B1	MCV120B1
POWER CONNECTION	V/ph/Hz	200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60
MCA[1]	A	2.00	2.75	3.00	4.00	5.50
SYSTEM DATA						
Refrigerant Type		R22	R22	R22	R22	R22
No. Refrigerant Circuits		1	1	1	1	1
Refrigerant Connection Type		Sweat	Sweat	Sweat	Sweat	Sweat
Suction Line OD	in (mm)	3/4 (19.05)	7/8 (28.58)	7/8 (28.58)	1-1/8 (28.58)	1-3/8 (34.93)
Liquid line OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	1/2 (12.7)	1/2 (12.7)
CASING						
Material		Galvanized & Electro-galvanized Steel				
Color		Light Gray				
Type of Insulation		PE Foam				
COIL						
Face Area	sq ft	3.50	4.50	5.33	6.58	8.63
	(m2)	(0.33)	(0.42)	(0.50)	(0.61)	(0.80)
Tube Type		Inner Groved	Inner Groved	Inner Groved	Inner Groved	Inner Groved
Rows		3	3	4	4	4
Fin Type		Uncoated Slitted	Uncoated Slitted	Uncoated Slitted	Uncoated Slitted	Uncoated Slitted
Fins per inch		16	16	16	14	16
Refrigerant Flow Control		Capillary Tube	Capillary Tube	Capillary Tube	Expansion Valve	Expansion Valve
Drain Connection Size	in (mm)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
Drain Connection Type		Flexible Hose	Flexible Hose	Flexible Hose	Flexible Hose	Flexible Hose
FAN						
Fan Type		Single Inlet Centrifugal				
No. used		1	1	1	2	2
Diameter	in (mm)	15 (381)	15 (381)	16 (406)	15 (381)	15 (381)
Width	in (mm)	7 (178)	7 (178)	7 (178)	7 (178)	7 (178)
Drive Type		Direct	Direct	Direct	Direct	Direct
MOTOR						
Motor Type		Permanent Split Capacitor				
No. of Motor		1	1	1	2	2
Motor Power Output	Watt	180	220	260	180	220
No. of Speed		3	3	3	3	3
Motor Speed	rpm	550/500/450	650/550/500	600/550/500	550/500/450	650/550/500
V/ph/Hz		220/1/60	220/1/60	220/1/60	220/1/60	220/1/60
RLA/LRA		1.60/1.84	2.20/2.53	2.40/2.76	1.60/1.84	2.20/2.53
FILTER						
Type		Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
No. used		1	1	1	2	2
DIMENSION (HxWxD)						
Crated (Shipping)	in	81.1x26.8x17.7	81.1x26.8x17.7	81.1x36.6x18.9	81.1x50.4x18.9	81.1x50.4x18.9
	(mm)	(2060x680x450)	(2060x680x450)	(2060x930x480)	(2060x1280x480)	(2060x1280x480)
Uncrated (Net)	in	74.8x23.6x14.6	74.8x23.6x14.6	74.8x33.4x15.7	74.8x47.1x15.7	74.8x47.1x15.7
	(mm)	(1900x600x370)	(1900x600x370)	(1900x848x400)	(1900x1196x400)	(1900x1196x400)
WEIGHT						
Crated (Shipping)	lb (kg)	163 (73.9)	168.5 (76.4)	225.5 (102.3)	325 (147.4)	340.5 (154.4)
Uncrated (Net)	lb (kg)	141.5 (64.2)	147 (67.7)	198 (89.8)	300.5 (136.3)	316 (143.3)

[1] MCA - Minimum Circuit Ampacity

General Data

General Data TTK 60 Hz

UNIT MODELS		TTK536Q1	TTK042K1	TTK048K1	TTK060K1	TTK060K3
POWER CONNECTION	V/ph/Hz	220-240/1/60	220-240/1/60	220-240/1/60	220-240/3/60	220-240/3/60
MCA[1, 3] A		20.1	31.6	00.0	00.0	00.0
SYSTEM DATA						
Refrigerant Type		R-22	R-22	R-22	R-22	R-22
No. Refrigerant Circuits		1	1	1	1	1
Refrigerant Connection Type		Flare	Flare	Sweat	Sweat	Sweat
Refrigerant Charge	lb (kg)	4.41 (2.00)	8.14 (3.70)	10.34 (4.70)	10.34 (4.70)	11.44 (5.20)
Suction Line OD	in (mm)	3/4 (19.05)	3/4 (19.05)	7/8 (22.23)	7/8 (22.23)	7/8 (22.23)
Liquid line OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	1/2 (12.7)	1/2 (12.7)
COMPRESSOR						
Compressor Type		Rotary	Scroll	Scroll	Scroll	Scroll
No. Used		1	1	1	1	1
V/ph/Hz		220/1/60	220/1/60	220/1/60	220/1/60	220/3/60
RLA/LRA		15.1 / 81.0	24.3 / 131.0	24.3 / 131.0	30.1 / 175.0	20.7 / 128.0
COIL						
Face Area	sq ft (m^2)	7.29 (0.68)	7.29 (0.68)	7.29 (0.68)	7.08 (0.66)	7.08 (0.66)
Tube Size OD	in (mm)	-	5/16 (7.93)	5/16 (7.93)	5/16 (7.93)	5/16 (7.93)
Tube Size (W x T x Ch)	(mm x mm x no.)	16 x 1.8 x 18	-	-	-	-
Tube Type		Aluminum	Inn. Grv.	Inn. Grv.	Inn. Grv.	Inn. Grv.
Rows		-	2	3	3	3
No. of Tube		76	-	-	-	-
Fin Type		Uncoated	Uncoated Corrugated			
No. of Refrigerant Path		4	-	-	-	-
Fins per inch		-	20	16	20	20
Refrigerant Flow Control		-	-	-	-	-
FAN						
Fan Type		Propeller	Propeller	Propeller	Propeller	Propeller
No. used		1	1	1	1	1
Diameter	in (mm)	20 (508)	20 (508)	20 (508)	20 (508)	20 (508)
No. of Blade		4	4	3	3	3
Pitch Angle	degree	30	32	30	32	32
Drive Type		Direct	Direct	Direct	Direct	Direct
Nominal Airflow[2]	cfm (cmh)	2130 (3619)	2130 (3619)	1903 (3233)	1903 (3233)	1903 (3233)
MOTOR						
Motor Type		Permanent Split Capacitor				
No. of Motor		1	1	1	1	1
Motor hp	hp (kW)	1/6 (0.104)	1/6 (0.104)	1/4 (0.165)	1/4 (0.165)	1/4 (0.165)
No. of Speed		1	1	1	1	1
Motor Speed	rpm	900	900	900	900	900
V/ph/Hz		220/1/60	220/1/60	220/1/60	220/1/60	220/1/60
RLA/LRA		1.25 / 1.53	1.25 / 1.53	0.00 / 0.00	0.00 / 0.00	0.00 / 0.00
DIMENSION (HxWxD)[4]						
Crated (Shipping)	in	33.8 x 45.0 x 16.9				
	(mm)	(858 x 1,144 x 430)				
Uncrated (Net)	in	31.3 x 40.0 x 14.2				
	(mm)	(795 x 1,018 x 360)				
WEIGHT						
Crated (Shipping)	lb (kg)	174.4 (79.1)	194.9 (88.6)	213.8 (97.0)	224.9 (102.0)	224.9 (102.0)
Uncrated (Net)	lb (kg)	158.5 (71.9)	179.1 (81.4)	179.1 (81.4)	202.8 (92.0)	202.8 (92.0)

[1] MCA - Minimum Circuit Ampacity ; calculated as follow : 125 % of compressor R.L.Amps plus the condenser fan motor R.L.Amps.
[2] CFM is rated with standard air-dry coil.
[3] At ARI system rating conditions 80°F-DB/67°F-WB indoor & 95°F-DB outdoor.
[4] For uncrated, outdoor unit's width and depth do not include the size of the mounting feet.
Abbreviation H = Height, W = Width, T = Thickness, Ch = Channel

General Data

General Data TTA 60 Hz

UNIT MODELS			TTA075R3	TTA100R3	TTA120R3
POWER CONNECTION		V/ph/Hz	230/3/60	230/3/60	230/3/60
MCA[1]		A	33.3	44.0	55.1
SYSTEM DATA					
Refrigerant Type			R22	R22	R22
No. Refrigerant Circuits			1	1	1
Refrigerant Connection Type			BRAZE	BRAZE	BRAZE
Refrigerant Charge		lb (kg)		Holding Charge	
Suction Line OD		in (mm)	1 1/8 (28.6)	1 3/8 (34.9)	1 3/8 (34.9)
Liquid line OD		in (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
CASING					
Material				Galvanized & Electro-galvanized Steel	
Color				Light Gray	
Type of Insulation				-	
COMPRESSOR					
Compressor Type				Hermetic Scroll	
No. Used			1	1	1
V/ph/Hz			230/3/60	230/3/60	230/3/60
RLA/LRA			25 / 164	33.6 / 231	42 / 239
COIL					
Coil Size	(H)	in (mm)	32 (813)	36 (914)	36 (914)
	(L)	in (mm)	68 (1727)	64 (1626)	80 (2032)
Face Area		sq ft (m^2)	15.0 (1.40)	16.0 (1.48)	20.0 (1.86)
Tube Size OD		in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Tube Type			Plain	Inner Groove	Inner Groove
Rows			2	2	2
Fin Type				Uncoated Corrugate	
Fins per inch (fpf)			16 (192)	16 (192)	16 (192)
Refrigerant Flow Control			-	-	-
FAN					
Fan Type			Propeller	Propeller	Propeller
No. used			1	1	1
Diameter		in (mm)	28 (711)	28 (711)	28 (711)
No. of Blade			4	4	4
Pitch Angle		degree	29	29	29
Drive Type			Direct	Direct	Direct
Nominal Airflow[2]		cfm (cmh)	4885 (8300)	5768 (9800)	6828 (11600)
MOTOR					
Motor Type				Three Phase Induction Motor	
No. of Motor			1	1	1
Motor Output		Watt	250	352	521
No. of Speed			1	1	1
Motor Speed		rpm	750	820	925
V/ph/Hz			230/3/60	230/3/60	230/3/60
RLA/LRA			2.00 / 3.03	2.00 / 3.5	2.59 / 5.5
DIMENSION (HxWxD)					
Uncrated (Net)		mm	1050x950x1060	1050x950x1060	1050x950x1260
WEIGHT					
Uncrated (Net)		kg	164	180	192

[1] MCA - Minimum Circuit Ampacity

[2] CFM is rated with standard air-dry coil.

System Performance Data

TTK536QB WITH MCV036BB
AT 1200 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	34.30	24.65	26.83	28.85	30.83	32.02	2.93
	65	37.03	20.42	22.55	24.62	26.75	28.80	3.06
	67	38.46	18.19	20.29	22.42	24.46	26.59	3.11
	71	41.30	13.59	15.74	17.77	19.97	22.02	3.24
95	61	33.35	24.32	26.34	28.48	30.24	32.00	3.18
	65	35.96	20.02	22.06	24.22	26.27	28.40	3.31
	67	37.30	17.73	19.87	21.96	24.06	26.15	3.38
	71	40.10	13.24	15.28	17.43	19.47	21.68	3.51
105	61	31.97	23.40	25.49	27.47	29.16	30.83	3.47
	65	34.55	19.19	21.26	23.38	25.42	27.54	3.60
	67	35.92	16.98	19.01	21.13	23.18	25.31	3.67
	71	38.47	14.52	14.58	16.62	18.77	20.81	3.82
115	61	30.61	22.75	24.78	26.62	28.35	29.81	3.76
	65	33.05	18.49	20.60	22.64	24.75	26.79	3.90
	67	34.32	16.25	18.43	20.40	22.54	24.58	3.97
	71	36.89	11.82	13.85	15.92	18.03	20.11	4.11

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	37.3 MBH
AIRFLOW:	1200 CFM
SYSTEM POWER:	3961 WATTS
NOM. SYSTEM AMPS:	21.96 AMPS

TTK536QD WITH MCV036BB
AT 1200 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	34.03	24.45	26.61	28.61	30.58	31.76	2.93
	65	36.74	20.25	22.37	24.43	26.54	28.57	3.06
	67	38.15	18.04	20.13	22.24	24.27	26.38	3.11
	71	40.97	13.48	15.62	17.63	19.81	21.84	3.24
95	61	33.08	24.13	26.13	28.25	30.00	31.75	3.18
	65	35.67	19.86	21.89	24.03	26.06	28.17	3.31
	67	37.00	17.59	19.71	21.79	23.86	25.94	3.38
	71	39.78	13.14	15.16	17.29	19.31	21.50	3.51
105	61	31.71	23.21	25.29	27.25	28.93	30.58	3.47
	65	34.28	19.04	21.09	23.19	25.21	27.32	3.60
	67	35.63	16.85	18.86	20.96	23.00	25.11	3.67
	71	38.16	14.41	14.47	16.49	18.62	20.64	3.82
115	61	30.36	22.56	24.58	26.41	28.12	29.57	3.76
	65	32.78	18.34	20.44	22.46	24.56	26.58	3.90
	67	34.04	16.12	18.29	20.24	22.36	24.38	3.97
	71	36.59	11.73	13.74	15.80	17.89	19.94	4.11

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	37 MBH
AIRFLOW:	1200 CFM
SYSTEM POWER:	3961 WATTS
NOM. SYSTEM AMPS:	9.86 AMPS

System Performance Data

TTK536Q1 WITH MCV036B1
AT 1200 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR	I.D.	GROSS	SENS. CAP.AT ENTERING D.B. TEMP.					COMPR.
D.B.	W.B.	CAP.	72	74	76	78	80	KW
85	61	33.11	23.79	25.89	27.84	29.76	30.90	2.83
	65	35.74	19.71	21.76	23.76	25.82	27.80	2.95
	67	37.12	17.55	19.58	21.64	23.61	25.67	3.00
	71	39.86	13.11	15.19	17.15	19.27	21.25	3.13
95	61	32.18	23.48	25.42	27.49	29.19	30.89	3.07
	65	34.70	19.32	21.29	23.38	25.35	27.41	3.19
	67	36.00	17.11	19.18	21.20	23.22	25.24	3.26
	71	38.70	12.78	14.75	16.82	18.79	20.92	3.39
105	61	30.85	22.58	24.61	26.51	28.15	29.75	3.35
	65	33.35	18.52	20.52	22.56	24.53	26.58	3.48
	67	34.67	16.39	18.35	20.40	22.38	24.43	3.54
	71	37.13	14.02	14.08	16.04	18.11	20.08	3.68
115	61	29.54	21.96	23.91	25.70	27.36	28.77	3.62
	65	31.89	17.84	19.88	21.85	23.89	25.86	3.76
	67	33.12	15.68	17.79	19.69	21.75	23.72	3.83
	71	35.60	11.41	13.37	15.37	17.41	19.40	3.96

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	36 MBH
AIRFLOW:	1200 CFM
SYSTEM POWER:	3811 WATTS
NOM. SYSTEM AMPS:	21.22 AMPS

TTK042KD WITH MCV048BB
AT 1400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR	I.D.	GROSS	SENS. CAP.AT ENTERING D.B. TEMP.					COMPR.
D.B.	W.B.	CAP.	72	74	76	78	80	KW
85	61	38.63	28.08	30.56	32.85	35.11	36.46	3.50
	65	41.70	23.25	25.68	28.04	30.47	32.80	3.64
	67	43.30	20.71	23.11	25.53	27.86	30.28	3.71
	71	46.51	15.47	17.93	20.24	22.74	25.08	3.86
95	61	37.55	27.70	30.00	32.44	34.44	36.45	3.80
	65	40.49	22.80	25.13	27.59	29.91	32.34	3.95
	67	42.00	20.19	22.63	25.01	27.40	29.78	4.03
	71	45.15	15.08	17.40	19.85	22.17	24.69	4.19
105	61	36.00	26.65	29.04	31.28	33.21	35.11	4.14
	65	38.91	21.86	24.21	26.63	28.95	31.36	4.30
	67	40.45	19.34	21.65	24.07	26.40	28.83	4.38
	71	43.32	16.54	16.61	18.93	21.37	23.69	4.55
115	61	34.47	25.91	28.22	30.32	32.29	33.95	4.48
	65	37.21	21.05	23.46	25.78	28.19	30.51	4.65
	67	38.64	18.50	20.99	23.23	25.67	27.99	4.73
	71	41.54	13.46	15.78	18.13	20.54	22.90	4.90

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	42 MBH
AIRFLOW:	1400 CFM
SYSTEM POWER:	4736 WATTS
NOM. SYSTEM AMPS:	11.42 AMPS

System Performance Data

TTK042K1 WITH MCV048B1
AT 1400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	39.45	28.68	31.21	33.56	35.87	37.24	3.59
	65	42.59	23.75	26.23	28.64	31.12	33.50	3.74
	67	44.23	21.16	23.60	26.08	28.46	30.93	3.81
	71	47.50	15.80	18.31	20.67	23.23	25.61	3.97
95	61	38.35	28.29	30.64	33.13	35.18	37.23	3.90
	65	41.36	23.29	25.67	28.18	30.55	33.03	4.06
	67	42.90	20.62	23.12	25.55	27.98	30.42	4.14
	71	46.12	15.41	17.78	20.27	22.64	25.21	4.30
105	61	36.77	27.22	29.66	31.95	33.92	35.86	4.25
	65	39.74	22.33	24.73	27.20	29.57	32.03	4.41
	67	41.31	19.76	22.11	24.58	26.97	29.44	4.50
	71	44.25	16.89	16.97	19.34	21.83	24.20	4.67
115	61	35.21	26.46	28.82	30.97	32.98	34.68	4.60
	65	38.01	21.50	23.97	26.33	28.80	31.16	4.78
	67	39.47	18.90	21.44	23.73	26.22	28.59	4.86
	71	42.43	13.75	16.11	18.52	20.98	23.39	5.03

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	42.9 MBH
AIRFLOW:	1400 CFM
SYSTEM POWER:	4751 WATTS
NOM. SYSTEM AMPS:	27.72 AMPS

TTK048KD WITH MCV048BB
AT 1400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	46.35	32.74	35.63	38.31	40.95	42.52	3.85
	65	50.04	27.12	29.95	32.70	35.53	38.25	4.00
	67	51.96	24.16	26.95	29.77	32.49	35.32	4.08
	71	55.81	18.04	20.91	23.60	26.52	29.24	4.25
95	61	45.06	32.30	34.98	37.83	40.17	42.50	4.17
	65	48.59	26.59	29.30	32.17	34.88	37.71	4.34
	67	50.40	23.54	26.39	29.17	31.95	34.73	4.43
	71	54.18	17.59	20.30	23.15	25.85	28.79	4.60
105	61	43.20	31.08	33.86	36.48	38.73	40.94	4.55
	65	46.69	25.49	28.23	31.05	33.76	36.57	4.72
	67	48.54	22.56	25.24	28.07	30.79	33.61	4.81
	71	51.98	19.29	19.37	22.08	24.92	27.63	5.00
115	61	41.36	30.21	32.90	35.36	37.65	39.59	4.92
	65	44.65	24.55	27.36	30.06	32.88	35.58	5.11
	67	46.37	21.58	24.48	27.09	29.93	32.64	5.20
	71	49.85	15.70	18.40	21.15	23.95	26.70	5.39

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	50.4 MBH
AIRFLOW:	1400 CFM
SYSTEM POWER:	5317 WATTS
NOM. SYSTEM AMPS:	13.00 AMPS

System Performance Data

TTK048K1 WITH MCV048B1
AT 1400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR	I.D.	GROSS	SENS. CAP.AT ENTERING D.B. TEMP.					COMPR.
D.B.	W.B.	CAP.	72	74	76	78	80	KW
85	61	44.14	31.18	33.94	36.49	39.00	40.50	3.71
	65	47.66	25.83	28.52	31.14	33.84	36.43	3.86
	67	49.49	23.01	25.66	28.35	30.94	33.63	3.93
	71	53.15	17.18	19.91	22.47	25.26	27.85	4.09
95	61	42.91	30.76	33.32	36.03	38.25	40.48	4.02
	65	46.27	25.32	27.91	30.64	33.22	35.92	4.18
	67	48.00	22.42	25.13	27.78	30.43	33.07	4.27
	71	51.60	16.75	19.33	22.04	24.62	27.42	4.44
105	61	41.14	29.60	32.25	34.74	36.89	38.99	4.39
	65	44.47	24.28	26.89	29.57	32.15	34.83	4.55
	67	46.22	21.48	24.04	26.73	29.32	32.01	4.64
	71	49.51	18.37	18.45	21.03	23.74	26.32	4.82
115	61	39.39	28.77	31.34	33.67	35.86	37.71	4.74
	65	42.53	23.38	26.06	28.63	31.31	33.89	4.93
	67	44.16	20.55	23.32	25.80	28.51	31.09	5.01
	71	47.47	14.95	17.52	20.14	22.81	25.43	5.19

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	48	MBH
AIRFLOW:	1400	CFM
SYSTEM POWER:	4878	WATTS
NOM. SYSTEM AMPS:	27.8	AMPS

TTK060KD WITH MCV060BB
AT 1600 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR	I.D.	GROSS	SENS. CAP.AT ENTERING D.B. TEMP.					COMPR.
D.B.	W.B.	CAP.	72	74	76	78	80	KW
85	61	55.18	38.86	42.30	45.48	48.61	50.47	4.56
	65	59.57	32.19	35.55	38.82	42.18	45.40	4.75
	67	61.86	28.67	31.99	35.34	38.57	41.92	4.84
	71	66.44	21.42	24.82	28.01	31.48	34.71	5.03
95	61	53.64	38.34	41.52	44.90	47.68	50.45	4.95
	65	57.84	31.56	34.78	38.18	41.41	44.76	5.15
	67	60.00	27.95	31.33	34.62	37.92	41.22	5.25
	71	64.50	20.88	24.09	27.47	30.69	34.17	5.45
105	61	51.42	36.89	40.19	43.30	45.98	48.60	5.39
	65	55.58	30.26	33.51	36.86	40.07	43.41	5.60
	67	57.78	26.77	29.97	33.32	36.55	39.90	5.70
	71	61.88	22.89	22.99	26.21	29.58	32.80	5.93
115	61	49.24	35.86	39.06	41.97	44.70	47.00	5.83
	65	53.16	29.14	32.48	35.69	39.02	42.23	6.06
	67	55.20	25.61	29.06	32.16	35.53	38.75	6.16
	71	59.34	18.64	21.84	25.10	28.43	31.69	6.38

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	60	MBH
AIRFLOW:	1600	CFM
SYSTEM POWER:	6349	WATTS
NOM. SYSTEM AMPS:	15.18	AMPS

System Performance Data

TTK060K1 WITH MCV060B1
AT 1600 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	56.6	39.8	43.4	46.6	49.8	51.7	4.8
	65	61.1	33.0	36.4	39.8	43.2	46.5	5.0
	67	63.4	29.4	32.8	36.2	39.5	43.0	5.1
	71	68.1	22.0	25.4	28.7	32.3	35.6	5.3
95	61	55.0	39.3	42.6	46.0	48.9	51.7	5.2
	65	59.3	32.3	35.7	39.1	42.4	45.9	5.4
	67	61.5	28.6	32.1	35.5	38.9	42.3	5.5
	71	66.1	21.4	24.7	28.2	31.5	35.0	5.7
105	61	52.7	37.8	41.2	44.4	47.1	49.8	5.7
	65	57.0	31.0	34.4	37.8	41.1	44.5	5.9
	67	59.2	27.4	30.7	34.2	37.5	40.9	6.0
	71	63.4	23.5	23.6	26.9	30.3	33.6	6.2
115	61	50.5	36.8	40.0	43.0	45.8	48.2	6.1
	65	54.5	29.9	33.3	36.6	40.0	43.3	6.4
	67	56.6	26.3	29.8	33.0	36.4	39.7	6.5
	71	60.8	19.1	22.4	25.7	29.1	32.5	6.7

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	60	MBH
AIRFLOW:	1600	CFM
SYSTEM POWER:	6349	WATTS
NOM. SYSTEM AMPS:	15.2	AMPS

TTK060K3 WITH MCV060B1
AT 1400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	56.8	40.8	44.4	47.7	51.0	53.0	4.69
	65	61.4	33.8	37.3	40.7	44.3	47.6	4.88
	67	63.7	30.1	33.6	37.1	40.5	44.0	4.97
	71	68.4	22.5	26.0	29.4	33.0	36.4	5.18
95	61	55.2	40.2	43.6	47.1	50.0	53.0	5.09
	65	59.6	33.1	36.5	40.1	43.5	47.0	5.29
	67	61.8	29.3	32.9	36.3	39.8	43.3	5.40
	71	66.4	21.9	25.3	28.8	32.2	35.9	5.61
105	61	53.0	38.7	42.2	45.4	48.3	51.0	5.55
	65	57.3	31.8	35.2	38.7	42.1	45.6	5.76
	67	59.5	28.1	31.4	35.0	38.4	41.9	5.86
	71	63.7	24.0	24.1	27.5	31.0	34.4	6.10
115	61	50.7	37.6	41.0	44.0	46.9	49.3	6.00
	65	54.8	30.6	34.1	37.5	41.0	44.3	6.23
	67	56.9	26.9	30.5	33.8	37.3	40.7	6.34
	71	61.1	19.6	22.9	26.3	29.8	33.3	6.57

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	61.8	MBH
AIRFLOW:	1400	CFM
SYSTEM POWER:	6128	WATTS
NOM. SYSTEM AMPS:	24.4	AMPS

System Performance Data

TTA075RD WITH MCV090BB
AT 2000 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	68.97	49.50	53.87	57.92	61.91	64.28	6.05
	65	74.46	41.00	45.28	49.44	53.72	57.82	6.30
	67	77.33	36.52	40.74	45.01	49.12	53.39	6.41
	71	83.05	27.28	31.61	35.68	40.10	44.21	6.68
95	61	67.05	48.84	52.89	57.19	60.73	64.26	6.56
	65	72.30	40.20	44.30	48.63	52.74	57.02	6.83
	67	75.00	35.60	39.90	44.10	48.30	52.50	6.97
	71	80.63	26.59	30.68	34.99	39.08	43.52	7.24
105	61	64.28	46.98	51.19	55.15	58.56	61.90	7.15
	65	69.48	38.54	42.69	46.94	51.03	55.29	7.42
	67	72.23	34.10	38.17	42.43	46.55	50.82	7.56
	71	77.35	29.16	29.28	33.38	37.68	41.77	7.86
115	61	61.55	45.67	49.74	53.46	56.93	59.86	7.74
	65	66.45	37.12	41.37	45.45	49.70	53.79	8.04
	67	69.00	32.62	37.01	40.96	45.25	49.35	8.18
	71	74.18	23.74	27.81	31.97	36.21	40.37	8.47

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	75	MBH
AIRFLOW:	2000	CFM
SYSTEM POWER:	8261	WATTS
NOM. SYSTEM AMPS:	18.22	AMPS

TTA075R3 WITH MCV090B1
AT 2000 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	71.0	51.0	55.5	59.7	63.8	66.2	6.11
	65	76.7	42.2	46.6	50.9	55.3	59.6	6.36
	67	79.6	37.6	42.0	46.4	50.6	55.0	6.48
	71	85.5	28.1	32.6	36.7	41.3	45.5	6.75
95	61	69.1	50.3	54.5	58.9	62.5	66.2	6.63
	65	74.5	41.4	45.6	50.1	54.3	58.7	6.90
	67	77.3	36.7	41.1	45.4	49.7	54.1	7.04
	71	83.0	27.4	31.6	36.0	40.3	44.8	7.31
105	61	66.2	48.4	52.7	56.8	60.3	63.8	7.23
	65	71.6	39.7	44.0	48.4	52.6	57.0	7.50
	67	74.4	35.1	39.3	43.7	47.9	52.3	7.65
	71	79.7	30.0	30.2	34.4	38.8	43.0	7.95
115	61	63.4	47.0	51.2	55.1	58.6	61.7	7.82
	65	68.4	38.2	42.6	46.8	51.2	55.4	8.12
	67	71.1	33.6	38.1	42.2	46.6	50.8	8.26
	71	76.4	24.4	28.6	32.9	37.3	41.6	8.56

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	77.3	MBH
AIRFLOW:	2000	CFM
SYSTEM POWER:	8319	WATTS
NOM. SYSTEM AMPS:	30.2	AMPS

System Performance Data

TTA100RD WITH MCV090BB
AT 2000 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR	I.D.	GROSS	SENS. CAP.AT ENTERING D.B. TEMP.					COMPR.
D.B.	W.B.	CAP.	72	74	76	78	80	KW
85	61	91.97	62.23	67.72	72.81	77.82	80.81	7.78
	65	99.29	51.54	56.92	62.15	67.53	72.69	8.11
	67	103.10	45.91	51.21	56.58	61.75	67.12	8.26
	71	110.73	34.29	39.74	44.85	50.41	55.58	8.60
95	61	89.40	61.40	66.49	71.90	76.34	80.78	8.45
	65	96.40	50.53	55.69	61.14	66.30	71.68	8.79
	67	100.00	44.75	50.16	55.44	60.72	66.00	8.97
	71	107.50	33.43	38.57	43.99	49.13	54.71	9.32
105	61	85.71	59.06	64.35	69.33	73.61	77.82	9.21
	65	92.64	48.45	53.66	59.01	64.16	69.51	9.56
	67	96.30	42.87	47.98	53.35	58.52	63.89	9.74
	71	103.14	36.66	36.81	41.96	47.37	52.52	10.12
115	61	82.06	57.42	62.54	67.20	71.57	75.25	9.96
	65	88.60	46.66	52.00	57.14	62.48	67.62	10.35
	67	92.00	41.01	46.53	51.49	56.89	62.04	10.53
	71	98.90	29.84	34.97	40.19	45.52	50.75	10.90

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	100 MBH
AIRFLOW:	2000 CFM
SYSTEM POWER:	10436 WATTS
NOM. SYSTEM AMPS:	25.67 AMPS

TTA100R3 WITH MCV090B1
AT 2000 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR	I.D.	GROSS	SENS. CAP.AT ENTERING D.B. TEMP.					COMPR.
D.B.	W.B.	CAP.	72	74	76	78	80	KW
85	61	94.7	64.1	69.8	75.0	80.2	83.2	7.99
	65	102.3	53.1	58.6	64.0	69.6	74.9	8.32
	67	106.2	47.3	52.8	58.3	63.6	69.1	8.47
	71	114.1	35.3	40.9	46.2	51.9	57.2	8.82
95	61	92.1	63.2	68.5	74.1	78.6	83.2	8.67
	65	99.3	52.0	57.4	63.0	68.3	73.8	9.02
	67	103.0	46.1	51.7	57.1	62.5	68.0	9.20
	71	110.7	34.4	39.7	45.3	50.6	56.4	9.56
105	61	88.3	60.8	66.3	71.4	75.8	80.2	9.45
	65	95.4	49.9	55.3	60.8	66.1	71.6	9.81
	67	99.2	44.2	49.4	54.9	60.3	65.8	9.99
	71	106.2	37.8	37.9	43.2	48.8	54.1	10.39
115	61	84.5	59.1	64.4	69.2	73.7	77.5	10.22
	65	91.3	48.1	53.6	58.9	64.4	69.7	10.62
	67	94.8	42.2	47.9	53.0	58.6	63.9	10.80
	71	101.9	30.7	36.0	41.4	46.9	52.3	11.19

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	103 MBH
AIRFLOW:	2000 CFM
SYSTEM POWER:	10525 WATTS
NOM. SYSTEM AMPS:	38.80 AMPS

System Performance Data

TTA120RD WITH MCV120BB
AT 2400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	110.36	74.67	81.27	87.38	93.39	96.98	8.54
	65	119.14	61.85	68.30	74.58	81.04	87.23	8.89
	67	123.72	55.09	61.46	67.90	74.10	80.55	9.06
	71	132.88	41.15	47.69	53.82	60.49	66.69	9.43
95	61	107.28	73.68	79.78	86.28	91.61	96.94	9.26
	65	115.68	60.64	66.83	73.37	79.56	86.01	9.64
	67	120.00	53.70	60.19	66.53	72.86	79.20	9.84
	71	129.00	40.12	46.29	52.79	58.96	65.66	10.22
105	61	102.85	70.87	77.22	83.20	88.34	93.38	10.10
	65	111.17	58.14	64.39	70.82	76.99	83.41	10.48
	67	115.56	51.44	57.58	64.02	70.23	76.67	10.68
	71	123.76	43.99	44.18	50.35	56.84	63.02	11.10
115	61	98.48	68.90	75.04	80.64	85.88	90.31	10.93
	65	106.32	55.99	62.40	68.57	74.98	81.15	11.35
	67	110.40	49.21	55.84	61.79	68.27	74.45	11.55
	71	118.68	35.81	41.96	48.23	54.63	60.90	11.96

* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	120	MBH
AIRFLOW:	2400	CFM
SYSTEM POWER:	11388	WATTS
NOM. SYSTEM AMPS:	28.78	AMPS

TTA120R3 WITH MCV120B1
AT 2400 CFM
GROSS CAPACITY IN BTU/H x 1000

OUTDOOR D.B.	I.D. W.B.	GROSS CAP.	SENS. CAP.AT ENTERING D.B. TEMP. 72	74	76	78	80	COMPR. KW
85	61	113.7	76.9	83.7	90.0	96.2	99.9	9.46
	65	122.7	63.7	70.4	76.8	83.5	89.8	9.85
	67	127.4	56.7	63.3	69.9	76.3	83.0	10.04
	71	136.9	42.4	49.1	55.4	62.3	68.7	10.45
95	61	110.5	75.9	82.2	88.9	94.4	99.8	10.27
	65	119.2	62.5	68.8	75.6	81.9	88.6	10.68
	67	123.6	55.3	62.0	68.5	75.0	81.6	10.90
	71	132.9	41.3	47.7	54.4	60.7	67.6	11.33
105	61	105.9	73.0	79.5	85.7	91.0	96.2	11.19
	65	114.5	59.9	66.3	72.9	79.3	85.9	11.62
	67	119.0	53.0	59.3	65.9	72.3	79.0	11.84
	71	127.5	45.3	45.5	51.9	58.5	64.9	12.31
115	61	101.4	59.1	64.4	69.2	73.7	77.5	10.22
	65	109.5	57.7	64.3	70.6	77.2	83.6	12.58
	67	113.7	50.7	57.5	63.6	70.3	76.7	12.80
	71	122.2	36.7	43.2	49.7	56.3	62.7	13.25

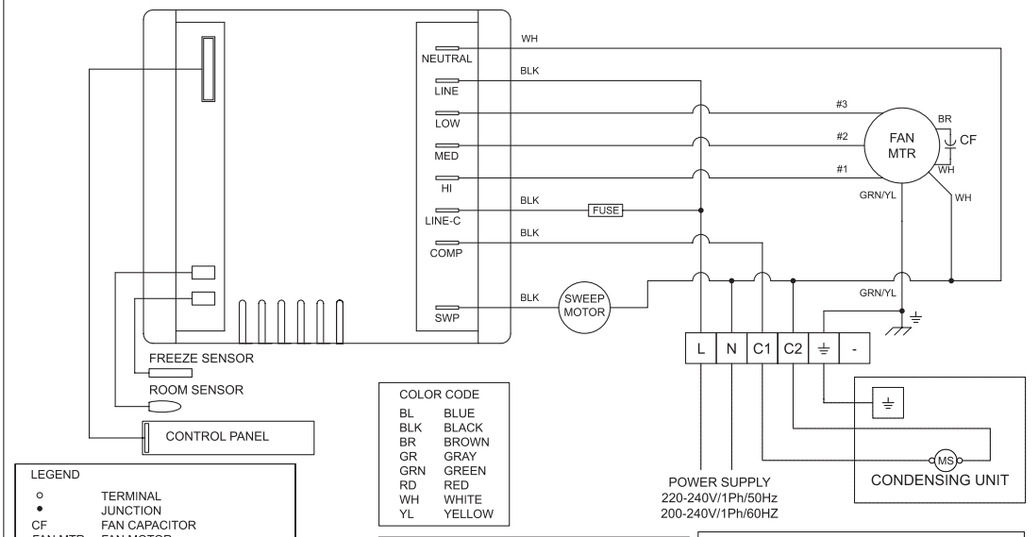
* Dry coil condition (Gross Capacity = Sensible Capacity)
Gross Capacity and Comp. KW are valid only for Wet Coil

Performance at the Rating Conditions of 80/67 & 95 F

GROSS CAPACITY:	123	MBH
AIRFLOW:	2400	CFM
SYSTEM POWER:	12552	WATTS
NOM. SYSTEM AMPS:	49.00	AMPS

MCV Wiring Diagram

MCV036/048/060



COLOR CODE

BL	BLUE
BLK	BLACK
BR	BROWN
GR	GRAY
GRN	GREEN
RD	RED
WH	WHITE
YL	YELLOW

LEGEND

○	TERMINAL
•	JUNCTION
CF	FAN CAPACITOR
FAN MTR	FAN MOTOR
⊗	IDENTIFIED TERMINAL
	CONTACTOR COIL
□	TERMINAL BY FACTORY
	FIELD WIRING
	FACTORY WIRING
	RELAY CONTACT N.O.
	CAPACITOR
FUSE	FUSE 5 AMP.

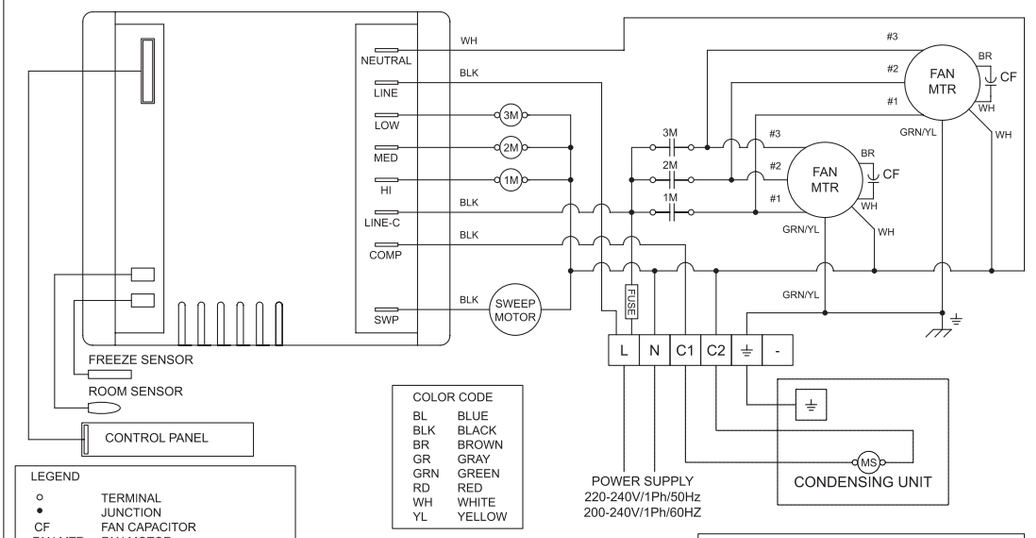
WIRE #	COLOR			
	50HZ		60HZ	
	MCV036/060	MCV048	MCV036/060	MCV048
#3 (LOW)	YL	RD	YL	YL
#2 (MED)	RD	BL	RD	BL
#1 (HIGH)	BL	BLK	BL	BLK

NOTES:

1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
2. USE COPPER CONDUCTORS ONLY.
3. ENSURE THAT POWER SUPPLY AGREE WITH EQUIPMENT NAME PLATE.

035-0977 REV. -

MCV090/120



COLOR CODE

BL	BLUE
BLK	BLACK
BR	BROWN
GR	GRAY
GRN	GREEN
RD	RED
WH	WHITE
YL	YELLOW

LEGEND

○	TERMINAL
•	JUNCTION
CF	FAN CAPACITOR
FAN MTR	FAN MOTOR
⊗	IDENTIFIED TERMINAL
	CONTACTOR COIL
□	TERMINAL BY FACTORY
	FIELD WIRING
	FACTORY WIRING
	RELAY CONTACT N.O.
	CAPACITOR
FUSE	FUSE 8 AMP.

WIRE #	COLOR			
	50HZ		60HZ	
	MCV090	MCV120	MCV090	MCV120
#3 (LOW)	YL	RD	YL	YL
#2 (MED)	RD	BL	RD	BL
#1 (HIGH)	BL	BLK	BL	BLK

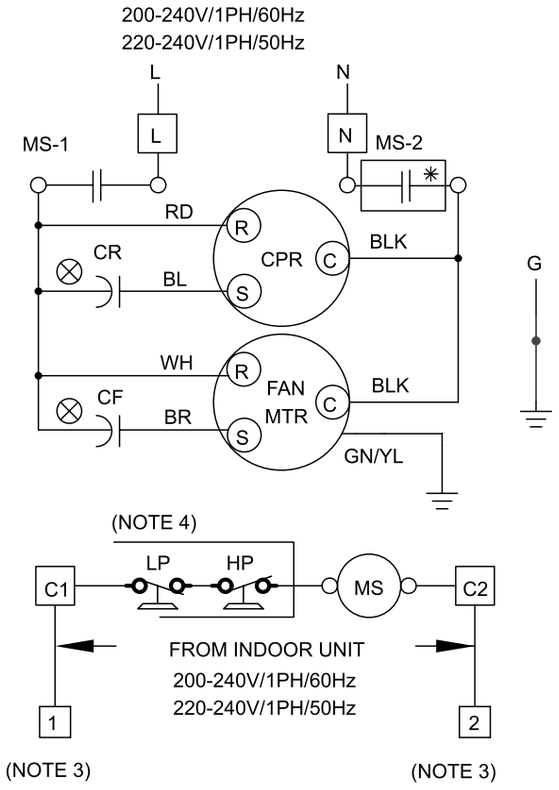
NOTES:

1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
2. USE COPPER CONDUCTORS ONLY.
3. ENSURE THAT POWER SUPPLY AGREE WITH EQUIPMENT NAME PLATE.

035-0978 REV. -

TTK Wiring Diagram

TTK512PB-530PB/P1
TTK536KB/K1



LEGEND

CPR	COMPRESSOR
CF	FAN CAPACITOR
CR	COMPRESSOR RUN CAPACITOR
FAN MTR	FAN MOTOR
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

LOW PRESSURE SENSOR

HIGH PRESSURE SENSOR

✳ APPLY FOR DOUBLE POLE CONTACTOR ONLY
(FOR SINGLE POLE CONTACTOR, CONNECT ELECTRIC LINE FROM COMPRESSOR-C AND FAN MOTOR-C DIRECT TO TERMINAL-N)

COLOR CODE

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

NOTES:

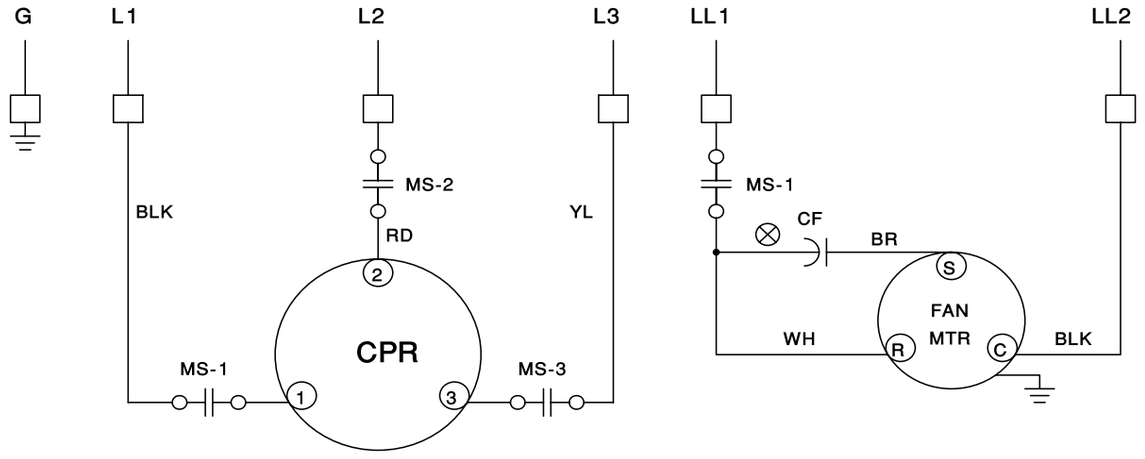
1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
2. USE COPPER CONDUCTORS ONLY.
3. TERMINALS AND [1] ARE [2] LOCATED ON INDOOR TERMINAL BOARD OF INDOOR UNITS.
4. HIGH & LOW PRESSURE SENSOR AVAILABLE IN OPTION MODEL.

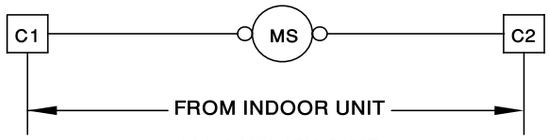
TTK Wiring Diagram

TTK536-042KD/K4

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

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





220-240V/1PH/50HZ

200-240V/1PH/60HZ

LEGEND

CPR	COMPRESSOR
CF	FAN CAPACITOR
FAN MTR	FAN MOTOR
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

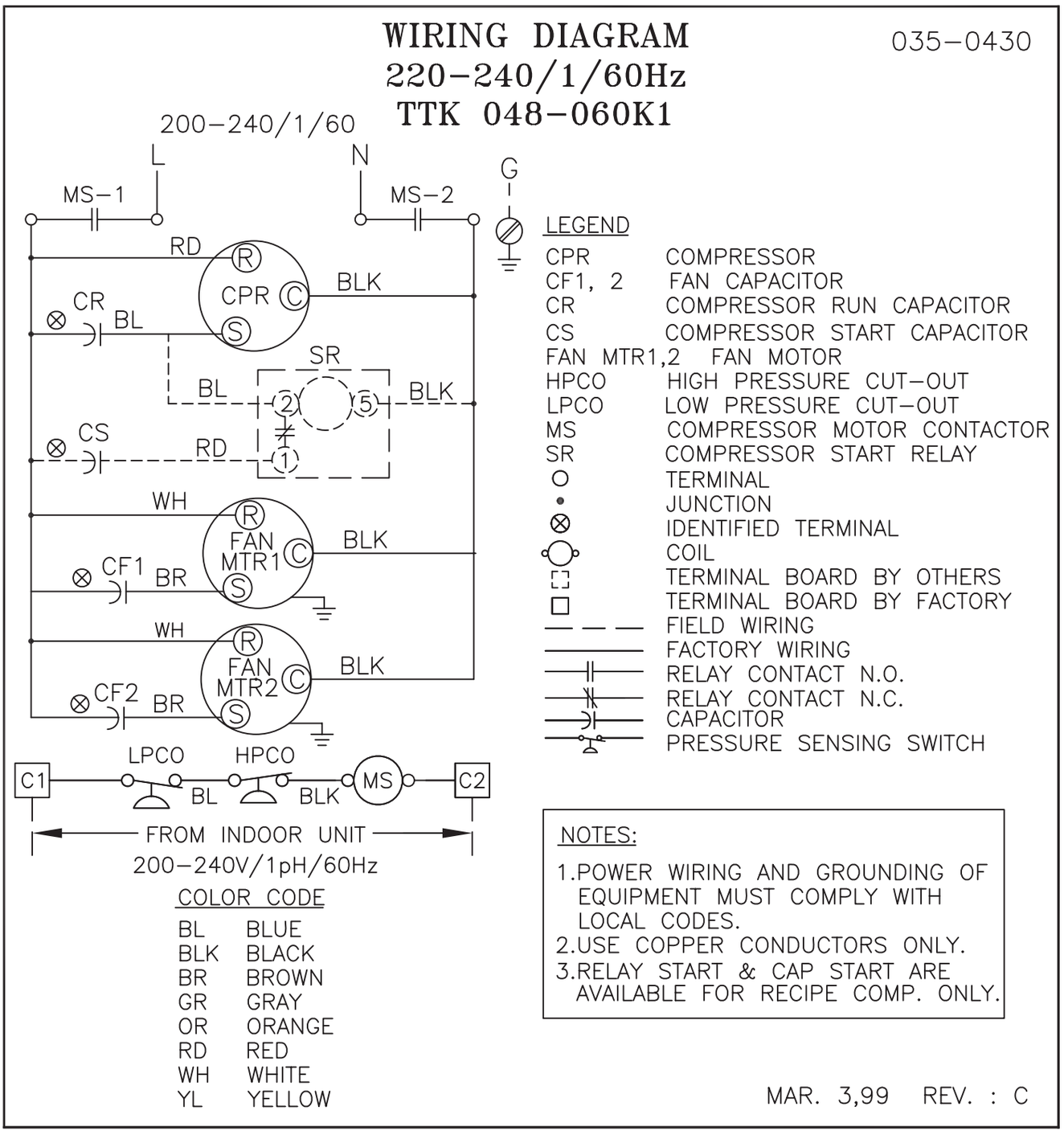
NOTES:

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

TTK Wiring Diagram

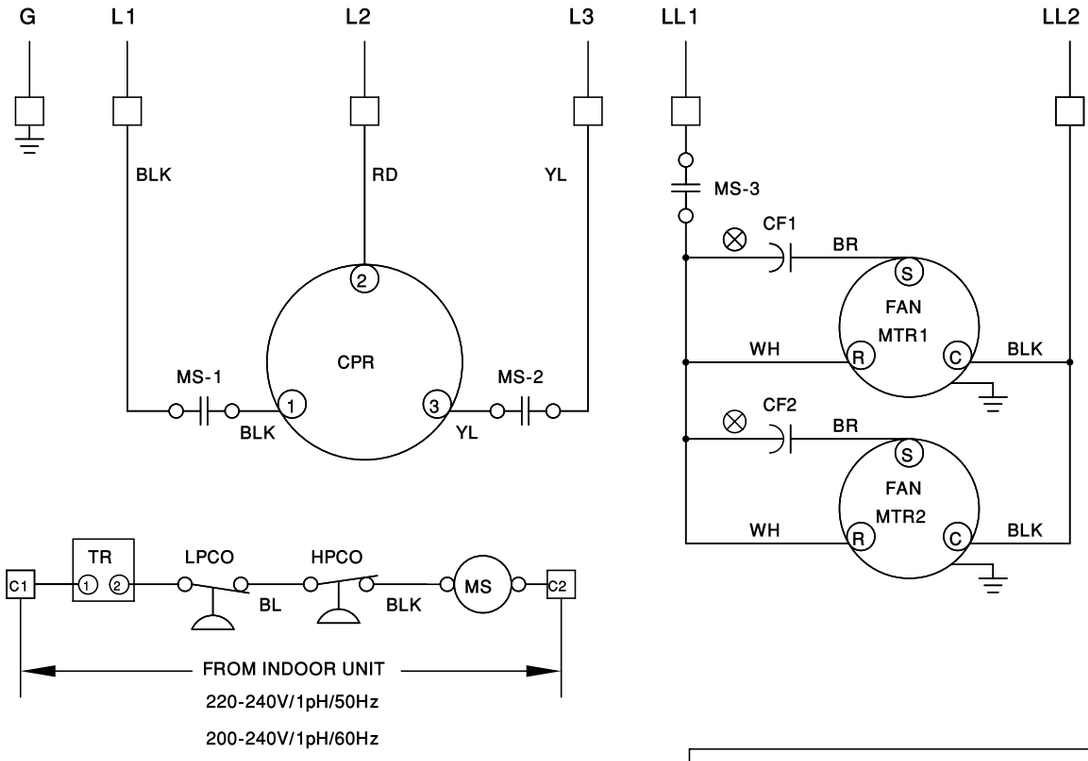


TTK Wiring Diagram

TTK048-060KD/K4
TTK060K3

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
TR	RELAY TIME DELAY 3.5 MIN
○	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.

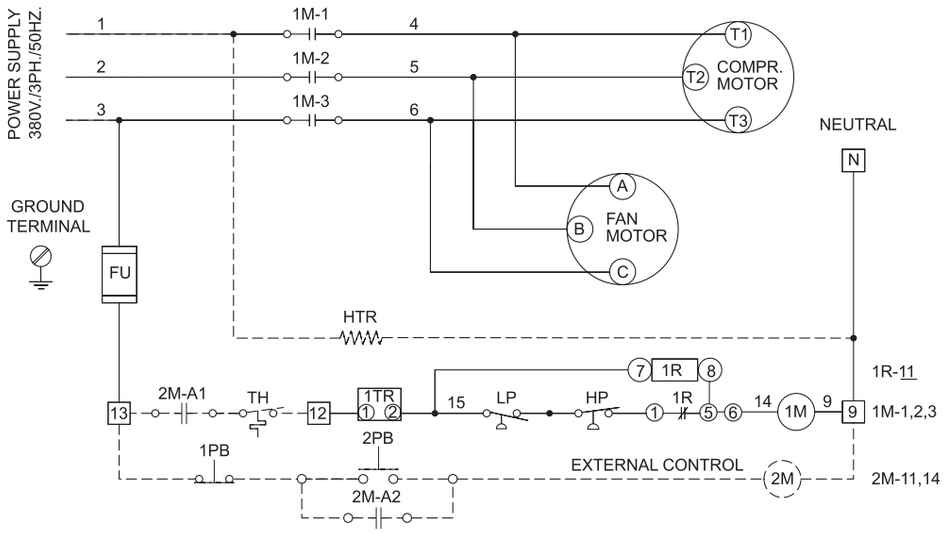
COLOR CODE

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

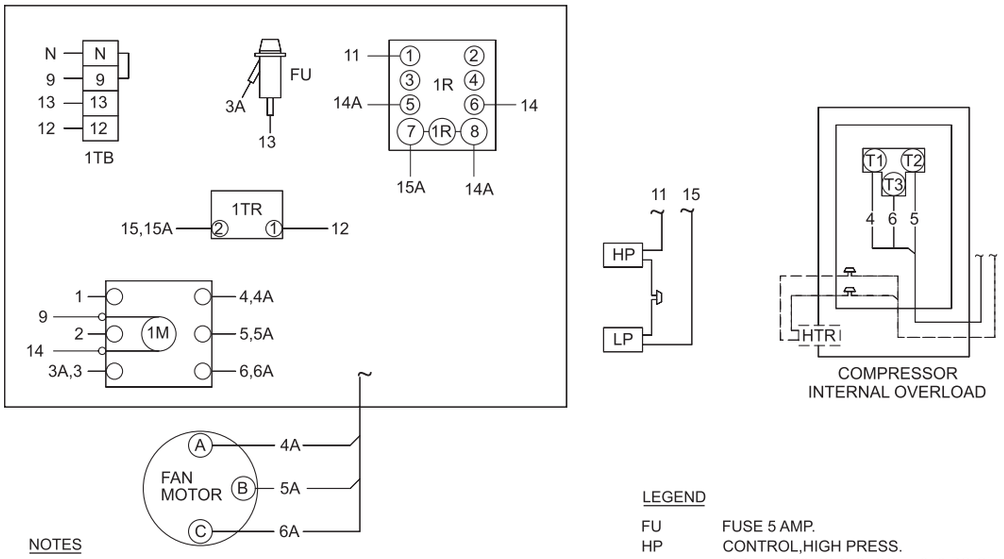
TTA Wiring Diagram

TTA 075, 100, 120 RD

ELEMENTARY DIAGRAM



CONNECTION DIAGRAM



NOTES

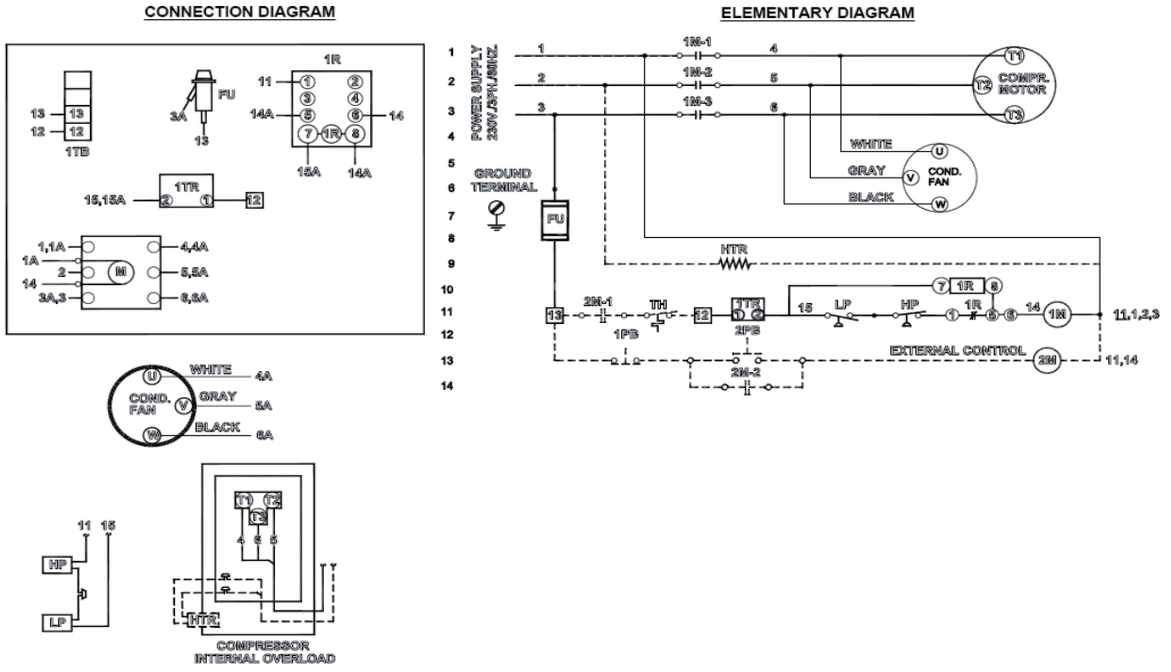
1 ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.) CANADIAN ELECTRIC CODE AND/OR LOCAL STATE AND CITY CODES. PROVIDE DISCONNECTS FOR ALL POWER SUPPLIES.
2 DRAWING PRACTICES AND SYMBOLS ARE IN ACCORDANCE WITH AIR CONDITIONING & REFRIGERATION INSTITUTE (ARI) GRAPHIC ELECTRICAL 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.
HP	CONTROL,HIGH PRESS. (OPEN : 398 PSIG,CLOSE : 313 PSIG)
LP	CONTROL,LOW PRESS. (OPEN : 27 PSIG,CLOSE : 46 PSIG)
1M	CONTACTOR,COMPRESSOR
1R	RELAY,CONTROL LOCKOUT
HTR	HEATER,CRANKCASE.
2M	CONTACTOR,EVAP.BLOWER MOTOR
TH	THERMOSTAT
☐	1TB-TERMINAL BLOCK CONTROL CIRCUIT
———	FACTORY WIRING & DEVICES BY MFR.
– – – –	FIELD WIRING (OPTION)
1TR	RELAY,TIME DELAY 3 MIN.
1PB, 2PB	SWITCH PUSH BOTTON
A1,A2	AUXILIARY CONTACT(N.O.) OF 2M

TTA Wiring Diagram

TTA 075, 100, 120 R300



NOTES

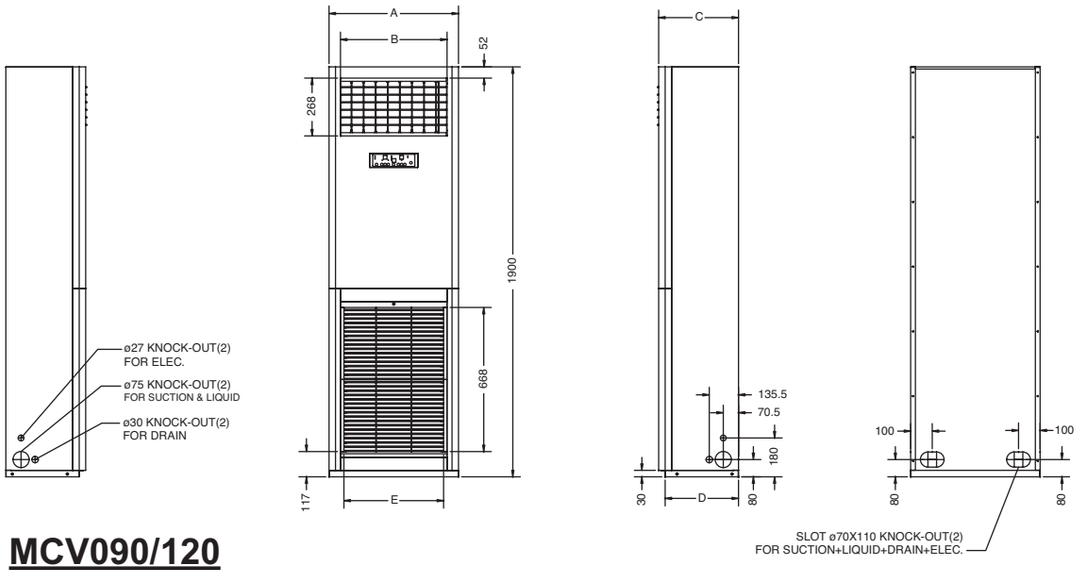
1 ALL FIELD WIRING TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.) CANADIAN ELECTRIC CODE AND/OR LOCAL STATE AND CITY CODES. PROVIDE DISCONNECTS FOR ALL POWER SUPPLIES.
2 DRAWING PRACTICES AND SYMBOLS ARE IN ACCORDANCE WITH AIR CONDITIONING & REFRIGERATION INSTITUTE (ARI) GRAPHIC ELECTRICAL 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 32°F TO 53.5 F.

LEGEND

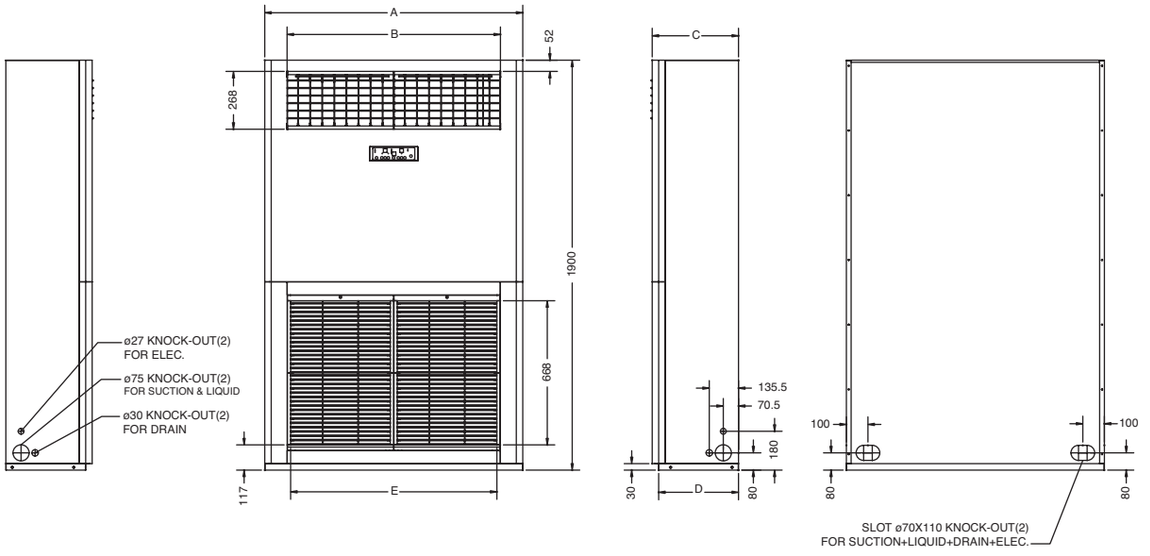
FU	FUSE 5 AMP.
HP	CONTROL, HIGH PRESS. (OPEN : 398 PSIG, CLOSE : 310 PSIG)
LP	CONTROL, LOW PRESS. (OPEN : 27 PSIG, CLOSE : 45.5 PSIG)
1M	CONTACTOR, COMPR
1R	RELAY, CONTROL LOCKOUT
1RC	CAPACITOR, RUN, FAN MOTORS.
HTR	HEATER, CRANKCASE.
2M	CONTACTOR, EVAP, BLOWER MOTOR
TH	THERMOSTAT
1A, 2A	AUXILIARY N.O. CONTACT
□	1TB-TERMINAL BLOCK CONTROL CIRCUIT
———	FACTORY WIRING & DEVICES BY MFR.
— —	FIELD WIRING (OPTION)
⊗	IDENTIFIED TERMINALS ON CAPACITORS
1TR	RELAY, TIME DELAY 3 MIN.
1PB, 2PB	SWITCH PUSH BUTTON

MCV Dimensional Data

MCV036/048/060



MCV090/120



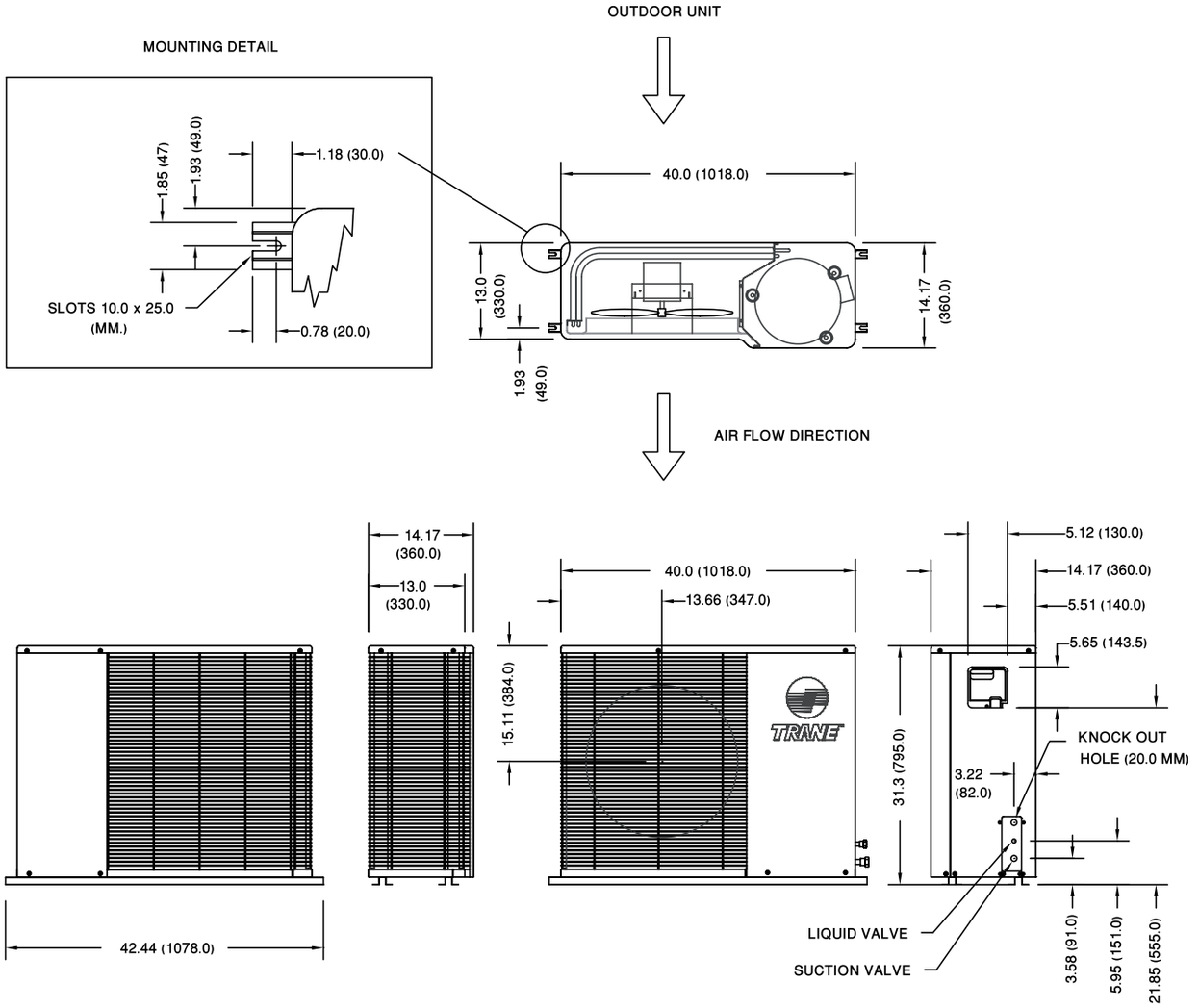
FOR EXPORT MODEL (50/60Hz)

MODEL	A	B	C	D	E	LIQUID SIZE	SUCTION SIZE	CONNECTION TYPE
MCV036	600	494	370	340	462	3/8"	3/4"	BRAZE
MCV048	600	494	370	340	462	3/8"	1-1/8"	BRAZE
MCV060	848	742	400	370	710	3/8"	1-1/8"	BRAZE
MCV090	1196	989	400	370	954	1/2"	1-1/8"	BRAZE
MCV120	1196	989	400	370	954	1/2"	1-3/8"	BRAZE

NOTE : ALL DIMENSIONS ARE IN MILLIMETER.

TTK Dimensional Data

TTK530-536KB (50 Hz)
TTK536-042KD (50 Hz)
TTK536 K1 (60 Hz)
TTK042K1 (60Hz)

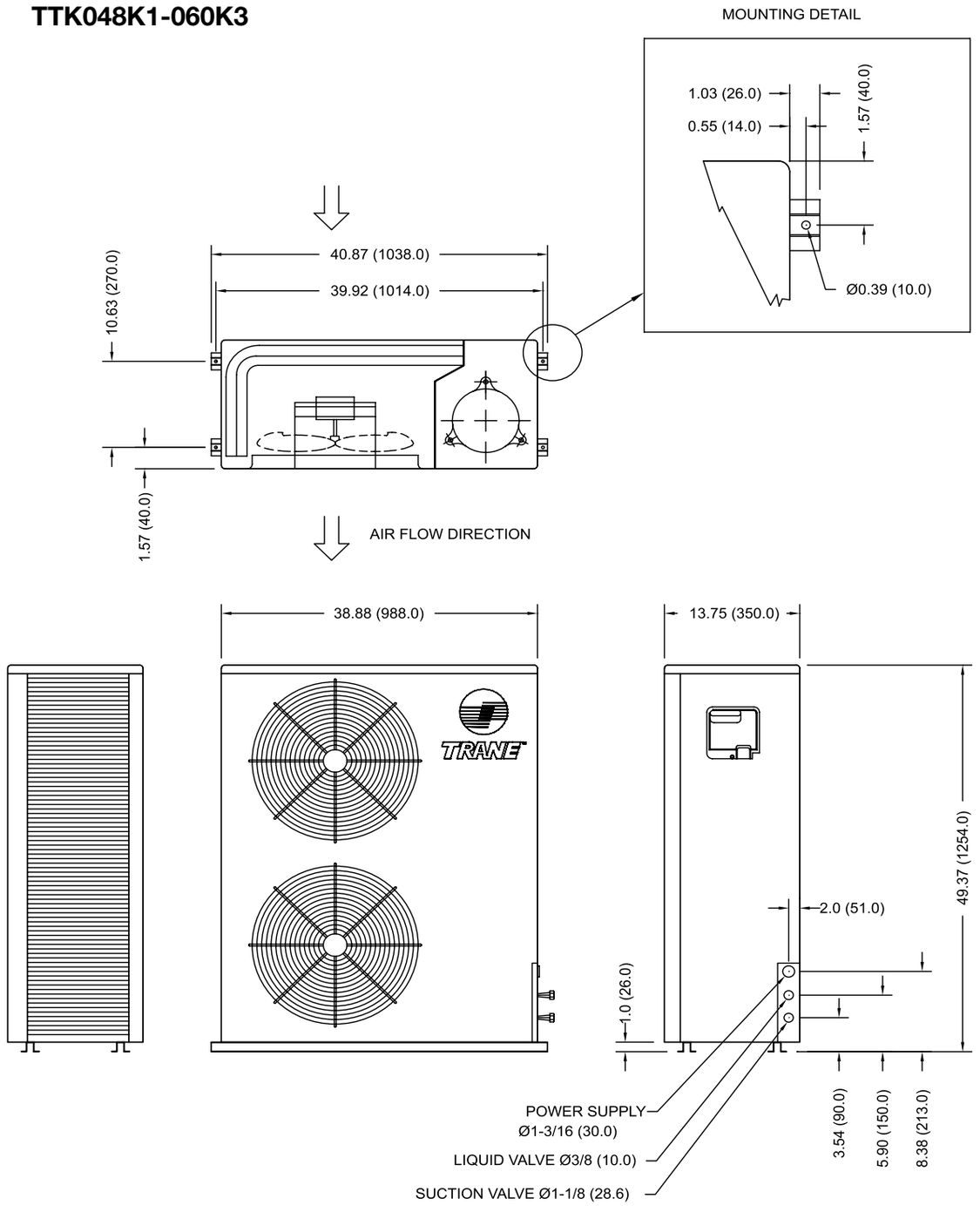


MODEL	REFRIG. LINE DIA.	
	LIQUID	SUCTION
TTK530KB	3/8 (9.5) 5/8 (15.9)	
TTK536KB/KD TTK536K1/K4	3/8 (9.5) 3/4 (19.1)	
TTK042KD/K4	3/8 (9.5) 7/8 (22.2)	

NOTE 1) SUCTION AND LIQUID VALVES ARE FLARE TYPE CONNECTIONS
2) DIMENSIONS : INCHES (MILIMETERS) ; 1 in = 25.40 mm

TTK Dimensional Data

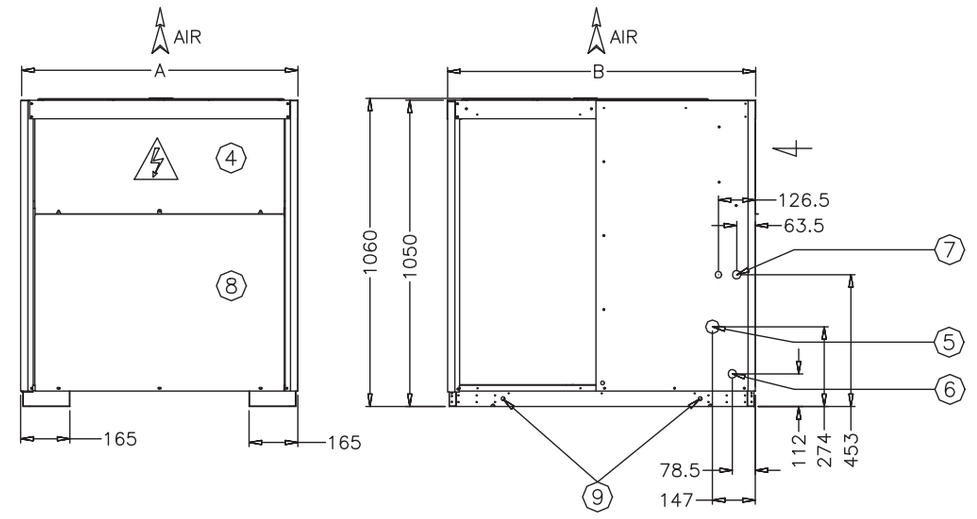
TTK048-060KD (50 Hz)
TTK048K1-060K3

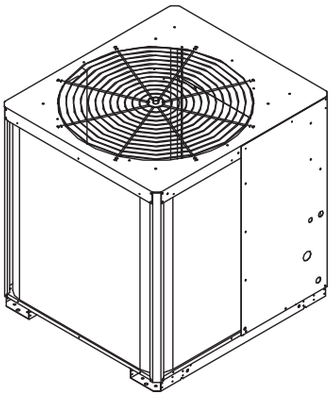


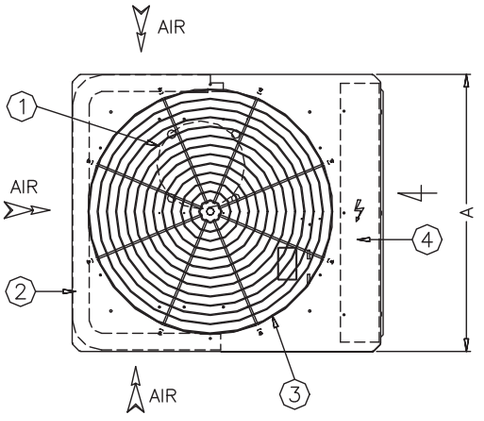
NOTE 1) SUCTION AND LIQUID VALVE ARE SWEAT TYPE CONNECTIONS.
2) DIMENSIONS : INCHES (MILIMETERS) 1 IN. = 25.40 MM.
3) THE ABOVE MODELS UTILIZE RECIPROCATING COMPRESSORS

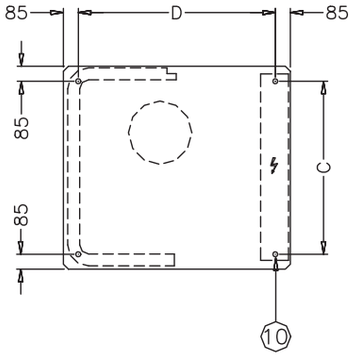
TTA Dimensional Data

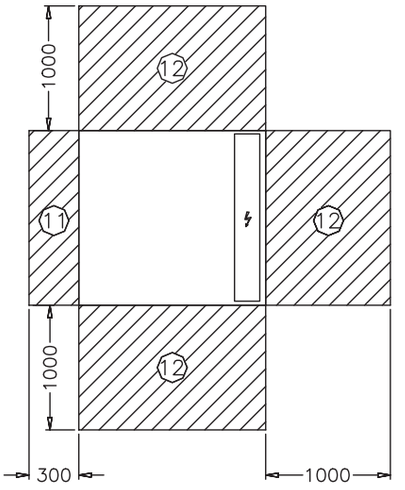
TTA075-120RD / R3
VERTICA DISCHARGE











MODEL	DIMENSION (mm.)				Ø (inch.)	
	A	B	C	D	ø ⑤	ø ⑥
TTA075RD/R3	950	1060	778	888	1 1/8"	1/2"
TTA100RD/R3	950	1060	778	888	1 3/8"	1/2"
TTA120RD/R3	950	1060	778	888	1 3/8"	1/2"

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 ø 22.5
10. MOUNTING HOLES ø 12.8
11. MINIMUM CLEARANCE AIR INLET
12. MINIMUM CLEARANCE FOR MAINTENANCE

AIR — AIR INTAKE / AIR EXHAUST

ELECTRICAL PANEL ACCESS

Notes

Notes

Notes

Trane
www.trane.com

For more information, contact your local district office

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