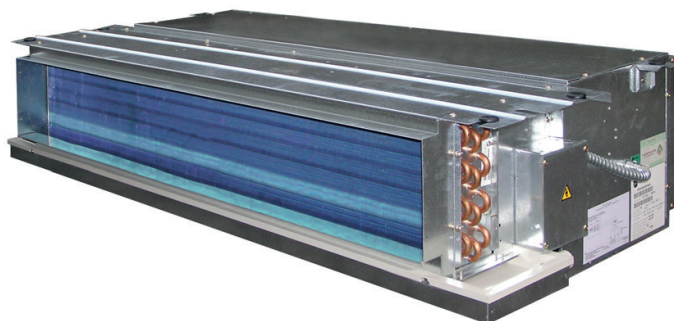




# Illusion™ Split Systems

R410a - 60 Hz  
1.5 - 5 Tons



**Split System Air Conditioning  
(Concealed Type)**  
1.5 - 5 Tons - R410a - 60 Hz

- MCDA18D1
- MCDA24D1
- MCDA30D1
- MCDA36D1
  
- MCDB42D1
  
- MCDB48D1
  
- MCDB60D1



**Condensing Unit  
XR16 4TTR6 :**  
1.5 - 5 Tons - R410a - 60 Hz

- |                 |                 |
|-----------------|-----------------|
| 4TTR6018J1S00AA | 4TTR6018J1SE0AA |
| 4TTR6024J1S00AA | 4TTR6024J1SE0AA |
| 4TTR6030J1S00AA | 4TTR6030J1SE0AA |
| 4TTR6036B1S00AA | 4TTR6036B1SE0AA |
| 4TTA6036B5S00AA | 4TTA6036B5SE0AA |
| 4TTR6042J1S00AA | 4TTR6042J1SE0AA |
| 4TTA6042B5S00AA | 4TTA6042B5SE0AA |
| 4TTR6048J1S00AA | 4TTR6048J1SE0AA |
| 4TTA6048A5S00AA | 4TTA6048A5SE0AA |
| 4TTR6060J1S00AA | 4TTR6060J1SE0AA |
| 4TTA6060B5S00AA | 4TTA6060B5SE0AA |

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# Model Matrix

Outdoor Models	Indoor Models	Power Input
4TTR6018J1S00AA	MCDA18D1PHAA	208-230V, 1PH, 60Hz
4TTR6018J1SE0AA	MCDA18D1THAA	
4TTR6024J1S00AA	MCDA24D1PHAA	
4TTR6024J1SE0AA	MCDA24D1UHAA	
4TTR6030J1S00AA	MCDA30D1PHAA	
4TTR6030J1SE0AA	MCDA30D1VHAA	
4TTR6036B1S00AA	MCDA36D1PHBA	
4TTR6036B1SE0AA	MCDA36D1WHBA	
4TTR6042J1S00AA	MCDB42D1PHBA	
4TTR6042J1SE0AA	MCDB42D1XHBA	
4TTR6048J1S00AA	MCDB48D1PHCA	
4TTR6048J1SE0AA	MCDB48D1YHCA	
4TTR6060J1S00AA	MCDB60D1PHBA	
4TTR6060J1SE0AA	MCDB60D1ZHBA	
4TTA6036B5S00AA	MCDA36D1PHBA	400V, 3Ph, 60Hz
4TTA6036B5SE0AA	MCDA36D1WHBA	
4TTA6042B5S00AA	MCDB42D1PHBA	
4TTA6042B5SE0AA	MCDB42D1XHBA	
4TTA6048A5S00AA	MCDB48D1PHCA	
4TTA6048A5SE0AA	MCDB48D1YHCA	
4TTA6060B5S00AA	MCDB60D1PHBA	
4TTA6060B5SE0AA	MCDB60D1ZHBA	



## The most reliable and longest lasting in the industry\*

Extreme is not even close to our approach to product testing. Cruel and unusual may be a better way to describe what a Trane endures to wear the badge. We push our products to the limit and beyond, so you can rest easy knowing there's a Trane working hard day in day out to make your family comfortable - for a long, long time.

It started over a hundred years ago, when Reuben and James Trane made the decision to stand out from the crowd. To build a comfort system like no other, using uncompromising quality, innovation and reliability. Today, their legacy is found in everything Trane makes, from our premium materials to our industry-leading technology to our extensive product testing under the harshest conditions. When you buy a Trane, you're buying a commitment from us, to you. A commitment to your total comfort, and your total peace of mind. Because that's what Reuben and James would have done.



Trane Storefront  
La Crosse, Wisconsin  
1891

### We're not the only ones talking about Trane reliability.

- ✓ In 2016, Lifestory Research found that consumers recognized Trane as America's Most Trusted™ HVAC System for the fourth year in a row.\*\*



Ice buildup on refrigerant lines of a compressor reflects the stress of our extreme testing. "Snowball II" has been in a constant state of overcharge since 2003, sort of like running a car 70 miles an hour around the clock to see how long it will last. Once this test is complete, we'll take it apart and see how we can make it better. It might take awhile though; the first Snowball survived under these same conditions for 28 years.

\* Independent 2012 HVAC Claim Study, Funded by Ingersoll Rand

\*\* Trane received the highest numerical score in the United States in the proprietary Lifestory Research 2016 America's Most Trusted™ Heating, Ventilation, & Air Conditioning (HVAC) System study. Study based on 17,878 surveys among residential consumers. Proprietary study results are based on experiences and perceptions of consumers surveyed between January and December 2015. For details see [www.lifestoryresearch.com](http://www.lifestoryresearch.com).





WE  
FREEZE,  
BROIL,  
STRESS,  
DROP,  
SHOCK,  
EXPOSE,  
LISTEN,  
AND  
TAKE 'EM  
HOME  
WITH US.

The Systems Extreme Environmental Test Lab is just one of many tests our outdoor products are put to. It's where we pack a lifetime of mother nature's fury into 16 weeks of torture that would stand up to the harshest environment this planet has to offer. Then we test them where it really matters: in our own homes. Just one of the many reasons why *It's Hard To Stop A Trane.*



*It's Hard To Stop A Trane.*



# Features and Benefits/4TTR6

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## Outdoor unit 4TTR6

- CLIMATUFF® compressor
- Efficiency up to 17.0 SEER
- All aluminum SPINE FIN™ coil
- WEATHERGUARD™ fasteners
- QUICK-SESS™ cabinet, service access and refrigerant connections with full coil protection
- DURATUFF™ base, fast complete drain, weatherproof
- COMFORT-R™ mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- Liquid line filter/drier
- Tarpaulin grey cabinet with anthracite grey badge and cap
- High pressure switch
- Service valve cover
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 30°F with AY28X079
- Low ambient cooling to 55°F as shipped

## Features and Benefits/4TTR6

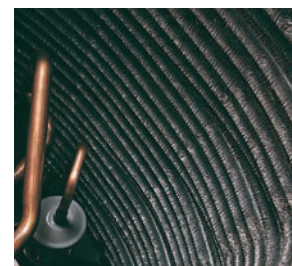
### Our Proprietary Woven Coil Technology Remains Unmatched Since 1968.

Still today, Spine Fin™ ranks as the most efficient heat exchanger currently being manufactured. That's why we use it in every single one of our outdoor products. Increased surface area offers prevention of dirt build-up and provides superior long-term efficiency and effectiveness against the environment outdoors. Spine Fin™ is unmatched when it comes to heat transfer. They just can't beat it. No wonder it's miles ahead of everyone, and positioned to stay there.

- Made with proprietary manufacturing techniques
- Leak resistant design has 1/3 the number of brazed joints and our unique transition joint
- A protective cabinet and a cleanable design



The woven coil design weaves a continuous roll of Spine Fin™ in a layered configuration, creating an even greater surface area. This greater surface area results in increased efficiency and a reduced cabinet size.



Spine Fin™ coils are fabricated in continuous lengths. Because of the number of leading edges, one row has the ability to transfer the same amount of heat as three rows of plate fin.



#### U.S. Navy research testimony

In a corrosive environment (coastal or urban), heat exchanger performance can degrade quite rapidly. According to an unbiased study performed by the United States Navy Civil Engineering Laboratory, Naval Construction Battalion Center in Port Hueneme, California, evidence of the fact, and support of all-aluminum coils in such environments is presented. Technical Report #N-1560 observes that after 24 months, aluminum tube/aluminum fin, heat exchangers are performing 32% better than copper tube/aluminum fin units.

One conclusion of this research was that "uncoated aluminum tube/aluminum fin heat exchangers are more thermally efficient than the uncoated copper tube/aluminum fin heat exchangers after two-years of operation in a temperate marine environment."



Patented high-speed machines cut, form and wrap aluminum fin stock around aluminum tubing.



The rounded corners of Trane's four-sided coil design eliminate return bends and provide maximum efficiency.

# Features and Benefits/4TTR6

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**Conventional exposed plate fin stands little chance in harsh environments like the one shown above.**



## **Spine Fin™ stands up to harsh environments.**

The outdoor environment is unrelenting, with dramatic swings in temperature, precipitation, wind and humidity. Near the ocean, the air contains salt-laden moisture. In and around cities, the atmosphere contains oxides of sulfur and nitrogen, acid and alkaline dusts and gases. Most of the other guys' coils can't stand up to these powerful corrosive forces. However, the carefully selected aluminum alloys in Spine Fin™ provide protection from even the harshest outdoor environments.

## **Purdue University Study**

A study conducted at the Ray Herrick Laboratories of Purdue University showed that a typical system's efficiency degrades twice as much with enhanced plate fin versus Spine Fin when a three to four year building of graded dust is present. Even in the event that Spine Fin is loaded with more particulate than enhanced plate fin, more system efficiency is retained with Spine Fin. This study proves the fact that surface loading and clogging are not typical to Spine Fin.



We designed it to carry an 800 lb. gorilla. What makes the polymer base pan an important first? Well, perhaps because it can withstand an 800-pound load and our 135°, 20-year accelerated heat test. It won't crack, warp, corrode, or rust and its molded-in color will not fade, ever.



## Features and Benefits/4TTR6

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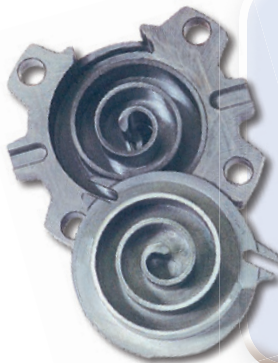
### **We set the bar high with Climatuff® Compressors.**

The heart of a Trane system is nothing short of extraordinary. The Legendary Climatuff® Compressor was built from scratch in-house and boldly paved the way for the majority of modern compressor technology on the market today. Trane compressor standards still have to be met to wear the Climatuff® name.



### **We finish strong.**

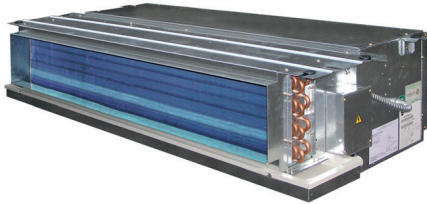
Trane has always been first in building things to last. That's why we were the first to finish our equipment with more durable, attractive powder coating. Unlike painting, powder coating provides a thicker finish that helps eliminate the chance of rusty or ragged edges developing over time. All panels are subjected to our 1,000 hour salt spray test.



We are constantly innovating because we care about the things your customers care about, like efficiency and noise levels. A good example of this is a recent efficiency improvement of 1 to 4% resulting from directed suction gas along with optimized scrolls, sealing and motor design in our Climatuff® compressor. And then there is the updated bracket design for resonant sound improvement. Good enough is not acceptable at Trane.

# Features and Benefits/MCD

## MCD Concealed Unit



### Features:

- Compact Design
- Triple Layer Drain Pan\*
- 4 Speed Fan Motor
- Optional Electric Heater

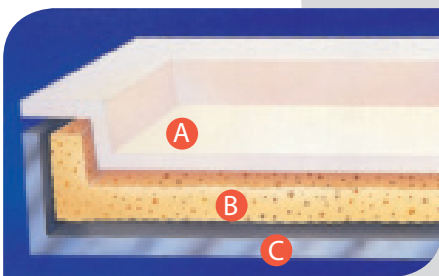
### Benefits:

- Flexibility in installation locations.
- Protect against condensate leaks.
- Flexibility in airflow.
- Whisper quiet operation.
- Ease of installation

## MCD Air Handler unit

- Complete family of concealed models- available in capacities ranging from 18,000 to 60,000 Btu/h.
- Compact height- only 304 mm. for 18,000 to 24,000 Btu/h models and 408 mm for 30,000 to 60,000 Btu/h
- The MCD Series is very compact for easy installation into tight ceiling locations.
- Triple protection drain pan of three layers provide maximum insulation and water integrity. First, a single piece of galvanized steel; next, a single piece of polystyrene; and finally, a vacuum formed plastic liner.

- A** Plastic
- B** Polystyrene foam
- C** Galvanized sheet



### Triple protection drain pan


- Effectively prevents ceiling damage from drain pan leaks
- Decreases chance of mold
- Enhances indoor air quality

Illusion drain pans consist of three layers: a single piece of galvanized sheet, a single piece of polystyrene foam, and a vacuum formed plastic liner. It also features a high-quality, flexible drain hose which is suitable for PVC size.





# Features and Benefits/MCD


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 **Fan speed:**  
Four fan levels provide continuous, cool airflow


 **Temperature setting:**  
Set temperature range is from 15 °C to 30 °C.

 **Powercool (turbo) mode:**  
Cool off quicker (Turbo mode for LCD wired control)

 **Sleep mode:**  
Stay comfortable with automatic room temperature adjustment during the night

 **Econo mode:**  
Save energy while keeping cool

 **Dry mode:**  
provides effective humidity reduction with high efficient cooling capacity.

 **24 hours programmable timer:**  
Select on/off times to schedule even more energy and cost savings



Touch wired control  
(ACYSTAT160AA cooling only)  
(ACYSTAT260AA cool and heat)



LCD wired control  
(ACYSTAT110AA cooling only)  
(ACYSTAT210AA cool and heat)



LCD wireless remote control



(ACYSTAT120AA cooling only)  
(ACYSTAT220AA cool and heat)



LCD wireless remote control



Receiver

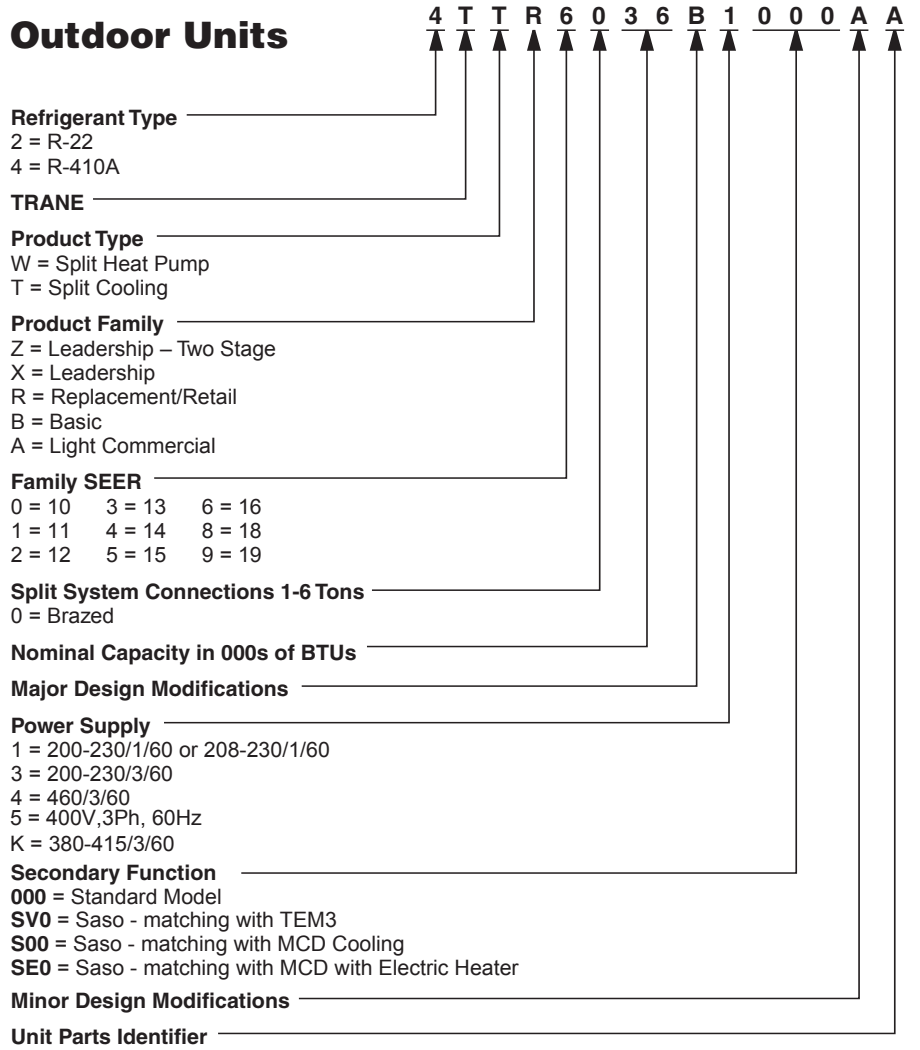
(ACYSTAT170AA Cooling Only)  
(ACYSTAT270AA Cool & Heat)

## Digital touch-control series

- Choose from wired or wireless control
- Touch-control switch
- Intelligent features add more convenience

# Nomenclature/4TTR6

## Outdoor Units





## Nomenclature/MCD

---

**M**   **C**   **D**   **A**   **1**   **8**   **D**   **1**   **P**   **H**   **A**   **A**  
**1**   **2**   **3**   **4**   **5**   **6**   **7**   **8**   **9**   **10**   **11**   **12**

### Digit 1

M = Mini-split

### Digit 2

C = Cooling only

### Digit 3

D = Concealed

### Digit 4-Refrigerant Connection

0 = Sweat type, R22

5 = Flare type, R22

A = Flare type, R410A (18-36)

B = Sweat type, R410A (42-60)

C = Flare type, R407C

D = Sweat type, R407C

### Digit 5, 6 – Nominal Capacity

18 = 18 MBH

24 = 24 MBH

30 = 30 MBH

36 = 36 MBH

42 = 42 MBH

48 = 48 MBH

60 = 60 MBH

### Digit 7

D = High external static pressure

E = Low external static pressure

### Digit 8 – Voltage

1 = 220-240/1/60 Hz

### Digit 9-Electric Heat and Refrigerant

0 = no heat, no return plenum, standard option

5 = no heat, Egat no.5, standard option

C = 1.0 KW electric heat, no return plenum

D = 1.5 KW electric heat, no return plenum

E = 2.0 KW electric heat, no return plenum

F = 2.5 KW electric heat, no return plenum

G = 3.0 KW electric heat, no return plenum

H = 4.0 KW electric heat, no return plenum

I = 4.5 KW electric heat, no return plenum

P = no heat, with return plenum

Q = 1.0 KW electric heat, with return plenum

R = 1.5 KW electric heat, with return plenum

S = 2.0 KW electric heat, with return plenum

T = 2.5 KW electric heat, with return plenum

U = 3.0 KW electric heat, with return plenum

V = 4.0 KW electric heat, with return plenum

W = 4.5 KW electric heat, with return plenum

### Digit 10– Option

0 = No option

H = High Efficiency with Filter

### Digit 11

A = Design change

### Digit 12

A = Service part

# General Data/4TTR6

## Product Specifications

<b>OUTDOOR UNIT</b> <sup>(a) (b)</sup>	4TTR6018J1S00A 4TTR6018J1SE0A	4TTR6024J1S00A 4TTR6024J1SE0A	4TTR6030J1S00A 4TTR6030J1SE0A	4TTR6036B1S00AA 4TTR6036B1SE0AA
POWER CONNS. — V/PH/HZ <sup>(c)</sup>	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	12	14	17	19
BR. CIR. PROT. RTG. — MAX. (AMPS)	20	25	25	30
<b>COMPRESSOR</b>	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATAUFF®- SCROLL	CLIMATAUFF®- SCROLL
NO. USED — NO. STAGES	1 — 1	1 — 1	1 — 1	1 — 1
VOLTS/PH/HZ	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
R.L. AMPS <sup>(d)</sup> — L.R. AMPS	9 — 47.5	10.9 — 62.9	12.8 — 67.8	14.1 — 77
FACTORY INSTALLED				
START COMPONENTS <sup>(e)</sup>	NO (Uses BAYKSKT263)	NO (Uses BAYKSKT263)	NO (Uses BAYKSKT263)	NO (Uses BAYKSKT263)
INSULATION/SOUND BLANKET	NO	NO	NO	YES
COMPRESSOR HEAT	NO	NO	NO	NO
<b>OUTDOOR FAN</b>	PROPELLER	PROPELLER	PROPELLER	PROPELLER
DIA. (IN.) — NO. USED	23.02 — 1	23.02 — 1	23.02 — 1	27.6 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — 1	DIRECT — 1	DIRECT — 1	DIRECT — 1
CFM @ 0.0 IN. W.G. <sup>(f)</sup>	2675	2685	4300	4420
NO. MOTORS — HP	1 — 1/8	1 — 1/8	1 — 1/8	1 — 1/5
MOTOR SPEED R.P.M.	850	850	850	850
VOLTS/PH/HZ	200/230/1/60	200/230/1/60	200/230/1/60	200/230/1/60
F.L. AMPS	0.64	0.64	0.64	1.05
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
ROWS — F.P.I.	1 — 24	1 — 24	1 — 24	1 — 24
FACE AREA (SQ. FT.)	16.25	16.25	24.93	24.93
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8
<b>REFRIGERANT</b>				
LBS. — R-410A (O.D. UNIT) <sup>(g)</sup>	4 LBS., 15 OZ	5LBS., 3 OZ	6 LBS., 7 OZ	7 LBS., 4 OZ
FACTORY SUPPLIED	YES	YES	YES	YES
LINE SIZE — IN. O.D. GAS <sup>(h) (i)</sup>	3/4	3/4	3/4	3/4
LINE SIZE — IN. O.D. LIQ.	3/8	3/8	3/8	3/8
<b>CHARGING SPECIFICATIONS</b>				
SUBCOOLING	8°F	8°F	8°F	11°F
<b>DIMENSIONS</b>	H X W X D	H X W X D	H X W X D	H X W X D
CRATED (IN.)	34 x 30.1 x 33	34 x 30.1 x 33	42 x 30.1 x 33	42.4 x 35.1 x 38.7
<b>WEIGHT</b>				
SHIPPING (LBS.)	189	190	220	228
NET (LBS.)	161	162	184	193

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

(b) Rated in accordance with AHRI standard 270.

(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

(e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

(f) Standard Air — Dry Coil — Outdoor

(g) This value approximate. For more precise value see unit nameplate.

(h) For standard, recommended linear length and lift applications, see the Subcool Charging Chart on page 5. For greater lengths and other applications, consult refrigerant piping software Pub. No. 32-3312-xx (xx denotes latest revision).

(i) Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 lbs of refrigerant. See the Installer's Guide for full charging instructions.



# General Data/4TTR6

## Product Specifications

<b>OUTDOOR UNIT</b> <sup>(a) (b)</sup>	4TTR6042J1S00A 4TTR6042J1SE0A	4TTR6048J1S00A 4TTR6048J1SE0A	4TTR6060J1S00A 4TTR6060J1SE0A
POWER CONNS. — V/PH/HZ <sup>(c)</sup>	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	21	24	31
BR. CIR. PROT. RTG. — MAX. (AMPS)	35	40	50
<b>COMPRESSOR</b>	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL
NO. USED — NO. STAGES	1 — 1	1 — 1	1 — 1
VOLTS/PH/HZ	208/230/1/60	208/230/1/60	208/230/1/60
R.L. AMPS <sup>(d)</sup> — L.R. AMPS	16.7 — 109	18.5 — 124	23.7 — 152.5
FACTORY INSTALLED			
START COMPONENTS <sup>(e)</sup>	NO (Uses BAYKSKT263)	NO (Uses BAYKSKT263)	NO (Uses BAYKSKT263)
INSULATION/SOUND BLANKET	NO	NO	NO
COMPRESSOR HEAT	NO	NO	NO
<b>OUTDOOR FAN</b>	PROPELLER	PROPELL	PROPELLER
DIA. (IN.) — NO. USED	27.5 — 1	27.5 — 1	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — 1	DIRECT — 1	DIRECT — 1
CFM @ 0.0 IN. W.G. <sup>(f)</sup>	3900	4600	4650
NO. MOTORS — HP	1 — 1/8	1 — 1/5	1 — 1/5
MOTOR SPEED R.P.M.	850	850	850
VOLTS/PH/HZ	200/230/1/60	200/230/1/60	200/230/1/60
F.L. AMPS	.64	1.05	1.05
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™	SPINE FIN™	SPINE FIN™
ROWS — F.P.I.	1 — 24	1 — 24	1 — 24
FACE AREA (SQ. FT.)	30.8	30.8	30.8
TUBE SIZE (IN.)	3/8	3/8	3/8
<b>REFRIGERANT</b>			
LBS. — R-410A (O.D. UNIT) <sup>(g)</sup>	9 LBS., 11 OZ	8 LBS., 10 OZ	11 LBS., 0 OZ
FACTORY SUPPLIED	YES	YES	YES
LINE SIZE — IN. O.D. GAS <sup>(h) (i)</sup>	7/8	7/8	7/8
LINE SIZE — IN. O.D. LIQ.	3/8	3/8	3/8
<b>CHARGING SPECIFICATIONS</b>			
SUBCOOLING	10°F	8°F	10°F
<b>DIMENSIONS</b>	H X W X D	H X W X D	H X W X D
CRATED (IN.)	50.4 x 35.1 x 38.7	50.4 x 35.1 x 38.7	50.4 x 35.1 x 38.7
<b>WEIGHT</b>			
SHIPPING (LBS.)	302	306	327
NET (LBS.)	252	256	277

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

(b) Rated in accordance with AHRI standard 270.

(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

(e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

(f) Standard Air — Dry Coil — Outdoor

(g) This value approximate. For more precise value see unit nameplate.

(h) For standard, recommended linear length and lift applications, see the Subcool Charging Chart on page 5. For greater lengths and other applications, consult refrigerant piping software Pub. No. 32-3312-xx (xx denotes latest revision).

(i) Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 lbs of refrigerant. See the Installer's Guide for full charging instructions.

# General Data/4TTR6

## Product Specifications

<b>OUTDOOR UNIT</b> <sup>(a) (b)</sup>	4TTA6036B5S00A 4TTA6036B5SE0A	4TTA6042B5S00A 4TTA6042B5SE0A	4TTA6048A5S00A 4TTA6048A5SE0A	4TTA6060B5S00A 4TTA6060B5SE0A
POWER CONNS. — V/PH/HZ <sup>(c)</sup>	400/3/60	400/3/60	400/3/60	400/3/60
MIN. BRCH. CIR. AMPACITY	7.5	9	10.4	11.6
BR. CIR. PROT. RTG. — MAX. (AMPS)	15	15	15	20
<b>COMPRESSOR</b>	CLIMATAUFF®- SCROLL	CLIMATUFF®-SCROLL	CLIMATUFF®-SCROLL	CLIMATUFF®-SCROLL
NO. USED — NO. STAGES	1 — 1	1 — 1	1 — 1	1 — 1
VOLTS/PH/HZ	400/3/60	400/3/60	400/3/60	400/3/60
R.L. AMPS <sup>(d)</sup> — L.R. AMPS	14.1 — 45	17.9 - 46.86	7.6 - 51.8	16 — 66
FACTORY INSTALLED				
START COMPONENTS <sup>(e)</sup>	NO (Uses BAYKSKT263)	NO (Uses BAYKSKT263)	NO	NO (Uses BAYKSKT263)
INSULATION/SOUND BLANKET	NO	YES	NO	NO
COMPRESSOR HEAT	NO	NO	NO	NO
<b>OUTDOOR FAN</b>	PROPELLER	PROPELLER	PROPELLER	PROPELLER
DIA. (IN.) — NO. USED	27.5 — 1	27.5 — 1	27.6 — 1	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — 1	DIRECT — 1	DIRECT — 1	DIRECT — 1
CFM @ 0.0 IN. W.G. <sup>(f)</sup>	4300	3900	4600	4650
NO. MOTORS — HP	1 — 1/8	1 — 1/8	1 — 1/5	1 — 1/5
MOTOR SPEED R.P.M.	825	825	850	850
VOLTS/PH/HZ	200/230/1/60	200/230/1/60	200/230/1/60	200/230/1/60
F.L. AMPS	0.77	0.77	0.93	0.93
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
ROWS — F.P.I.	1 — 24	1 — 24	1 — 24	1 — 24
FACE AREA (SQ. FT.)	24.8	30.8	24.93	30.8
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8
<b>REFRIGERANT</b>				
LBS. — R-410A (O.D. UNIT) <sup>(g)</sup>	8LBS., 13 OZ	10 LBS., 9 OZ	11 LBS., 03 OZ	11 LBS., 40Z
FACTORY SUPPLIED	YES	YES	YES	YES
LINE SIZE — IN. O.D. GAS <sup>(h) (i)</sup>	7/8	7/8	7/8	7/8
LINE SIZE — IN. O.D. LIQ.	3/8	3/8	3/8	3/8
<b>CHARGING SPECIFICATIONS</b>				
SUBCOOLING	10°F	10°F	8°F	10°F
<b>DIMENSIONS</b>	H X W X D	H X W X D	H X W X D	H X W X D
CRATED (IN.)	42 x 35.1 x 38.7	50.4 x 35.1 x 38.7	51 x 35.1 x 38.7	50.4 x 35.1 x 38.7
<b>WEIGHT</b>				
SHIPPING (LBS.)	246	294	277	325
NET (LBS.)	212	244	240	275

<sup>(a)</sup> Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

<sup>(b)</sup> Rated in accordance with AHRI standard 270.

<sup>(c)</sup> Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

<sup>(d)</sup> This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

<sup>(e)</sup> No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

<sup>(f)</sup> Standard Air — Dry Coil — Outdoor

<sup>(g)</sup> This value approximate. For more precise value see unit nameplate.

<sup>(h)</sup> For standard, recommended linear length and lift applications, see the Subcool Charging Chart on page 5. For greater lengths and other applications, consult refrigerant piping software Pub. No. 32-3312-xx (xx denotes latest revision).

<sup>(i)</sup> Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 lbs of refrigerant. See the Installer's Guide for full charging instructions.





## General Data/4TTR6

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### Sound Power Level

MODEL*	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power(dB)							
		63 Hz*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4TTR6018J	73	79	69	67	70	70	64	59	53
4TTR6024J	73	79	69	67	70	70	64	59	53
4TTR6030J	73	79	69	67	70	70	64	59	53
4TTR6036B	75	49	68	73	76	74	70	62	51
4TTR6042J	72	81	75	71	70	68	63	58	53
4TTR6048J	72	81	75	71	70	68	63	58	53
4TTR6060J	72	81	75	71	70	68	63	58	53

Note: Rated in accordance with AHRI Standard 270-2008

\* Same for B5 & A5 Models

# General Data/4TTR6

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## Accessory Description and Usage

**Anti-Short Cycle Timer** — Solid state timing device that prevents compressor recycling until 5 minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

**Evaporator Defrost Control** — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

**Rubber Isolators** — 5 large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

**Hard Start kit** — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

**Extreme Condition Mount Kit** — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

**The Saudi Standards, Metrology and Quality Org.(SASO) has certified Trane Ingersoll Rand Climate Solutions to use the energy efficiency label according to SASO STANDARDS 2663:2018**

## AHRI Standard Capacity Rating Conditions

**AHRI STANDARD 210/240 RATING CONDITIONS** —  
(A) Cooling 80°F DB, 67°F WB air entering indoor coil,  
95°F DB air entering outdoor coil.

**AHRI STANDARD 270 RATING CONDITIONS** — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.





# General Data/MCD

UNIT MODELS		MCD A18D1 PHAA	MCD A24D1 PHAA	MCD A30D1 PHAA	MCD A36D1 PHBA
		MCD A18D1 THAA <sup>1</sup>	MCD A24D1 UHAA <sup>1</sup>	MCD A30D1 VHAA <sup>1</sup>	MCD A36D1 WHBA <sup>1</sup>
<b>POWER CONNECTION</b>	V/ph/Hz	220-240/1/60	220-240/1/60	220-240/1/60	220-240/1/60
<b>MCA</b>	A	1.0	1.8	3.9	3.9
<b>MCA<sup>1</sup></b>	A	15.3	18.9	26.6	29.4
<b>SYSTEM DATA</b>					
	Refrigerant Type	R410A	R410A	R410A	R410A
	No. Refrigerant Circuits	1	1	1	1
	Refrigerant Connection Type	Flare	Flare	Flare	Flare
	Suction Line OD	in (mm)	5/8 (15.87)	5/8 (15.87)	3/4 (19.05)
	Liquid line OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
<b>CASING</b>					
	Material	Galvanized steel/Unpainted			
	Type of insulation / Thickness	Fiber glass (12.7 mm.)			
	Insulation density	Kg./m <sup>3</sup>	40	40	40
<b>COIL</b>					
	Coil Size (HxL)	in <sup>2</sup>	8" x 38"	8" x 38"	8" x 42"
		(mm) <sup>2</sup>	203.2 x 965.2	203.2 x 965.2	(203.2 x 1066.8)
	Face Area	sq ft (m <sup>2</sup> )	2.1 (0.20)	2.1 (0.20)	2.33 (0.216)
	Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
	Tube Type		Inn. Grv.	Inn. Grv.	Plain
	Rows		4	4	4
	Fin Type		Precoated Slit	Precoated Slit	Precoated Slit
	Fins per inch		20	20	16
	Refrigerant Flow Control		Capillary Tube	Capillary Tube	Capillary Tube
	Drain Connection Size	in (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
<b>ELECTRIC HEATER DATA<sup>1</sup> (for electric heater option only)</b>					
	Heater Rating	kW	2.5	3.0	4 (2 elements)
	Heater RLA		11.4	13.6	18.2
<b>FAN</b>					
	Fan Type		Centrifugal	Centrifugal	Centrifugal
	No. used		2	2	2
	Diameter	in (mm)	7 (164)	7 (164)	8 (203.2)
	Width	in (mm)	8 (201)	8 (201)	9 (228.6)
	Drive Type		Direct	Direct	Direct
	Nominal Airflow <sup>2</sup>	cfm (cmh)			
<b>MOTOR</b>					
	Motor Type				
	No. of Motor		1	1	1
	Motor Model		7455JVA-A47	7455LVA-A26	8557MVA-A31
	Motor Power	kW	0.096	0.152	0.26
	No. of Speed		4	4	4
	Motor Speed	rpm	1080/1213/1310/1458	1115/1217/1310/1435	936/1017/1082/1122
	Power Input	kW	0.171	0.284	0.510
	Power Supply	V/ph/Hz	220/1/60	220/1/60	220/1/60
	RLA/LRA		0.81/1.18	1.46/1.70	3.09/7.1
<b>FILTER</b>					
	Type		Aluminium Filter	Aluminium Filter	Aluminium Filter
	No. used		2	2	2
	Size (WxLxD)	in <sup>3</sup>	10.5x20.0x1.0	10.5x20.0x1.0	13.7 x 21.8 x 1.0
		(mm <sup>3</sup> )	(267x510x25.4)	(267x510x25.4)	(350 x 556 x 25.4)
<b>INDOOR SOUND DATA</b>					
	DBA (Speed - Ex-hi / Hi / Med / Low)		53.1 / 48.6 / 45.9 / 42.5	57.3 / 56.1 / 55.2 / 53.1	60.5 / 57.1 / 55.1 / 54
<b>CONTROL DEVICE</b>					
	Anti-Recycle Time		No	No	No
	Thermostat		No	No	No
<b>DIMENSION (HxWxD)</b>					
	Crated (Shipping)	in <sup>3</sup>	-	-	-
		(mm) <sup>3</sup>	-	-	-
	Crated (Shipping)**	in <sup>3</sup>	13.2 x 51.6 x 22.1	13.2 x 51.6 x 22.1	18.9 x 51.9 x 30.6
		(mm) <sup>3</sup>	(335 x 1311 x 562)	(335 x 1311 x 562)	(479 x 1317 x 778)
	Uncrated (Net)	in <sup>3</sup>	-	-	-
		(mm) <sup>3</sup>	-	-	-
	Uncrated (Net)**	in <sup>3</sup>	11.9 x 49.2 x 21.1	11.9 x 49.2 x 21.1	16 x 49.2 x 28.5
		(mm) <sup>3</sup>	(304 x 1251 x 538)	(304 x 1251 x 538)	(408 x 1251 x 724)
<b>WEIGHT</b>					
	Crated (Shipping)	lb (kg)	82 (37.2)	82 (37.2)	73 (32.73)
	Crated (Shipping) <sup>1</sup>	lb (kg)	86 (39.2)	86 (39.2)	77 (34.73)
	Uncrated (Net)	lb (kg)	79 (35.8)	79 (35.8)	64 (29.09)
	Uncrated (Net) <sup>1</sup>	lb (kg)	83 (37.8)	83 (37.8)	68 (31.09)

**Note**

- 1) MCA - Minimum Circuit Ampacity ; calculated as follow : 125 % of motor R.L.Amps
- 2) <sup>1</sup> Model with electric heater has alphabetic letter T or Z in the ninth digit.
- 3) Test at Free blow (0.0 in.Wg ESP) / Dry coil / Using ARI standard 270-84 as a reference for test set up.

# General Data/MCD

UNIT MODELS		MCDB42D1PHBA	MCDB48D1PHCA	MCDB60D1PHBA
		MCDB42D1XHBA <sup>1</sup>	MCDB48D1YHCA <sup>1</sup>	MCDB60D1ZHBA <sup>1</sup>
<b>POWER CONNECTION</b>	V/ph/Hz	220-240/1/60	220-240/1/60	220-240/1/60
<b>MCA</b>	A	3.9	2.7	2.7
<b>MCA<sup>1</sup></b>	A	35.1	36.8	42.4
<b>SYSTEM DATA</b>				
	Refrigerant Type	R410A	R410A	R410A
	No. Refrigerant Circuits	1	1	1
	Refrigerant Connection Type	Sweat	Sweat	Sweat
	Suction Line OD	in (mm)	7/8 (22.23)	7/8 (22.23)
	Liquid line OD	in (mm)	3/8 (9.53)	3/8 (9.53)
<b>CASING</b>				
	Material			
	Type of insulation / Thickness			
	Insulation density	Kg./m <sup>3</sup>	40	40
<b>COIL</b>				
	Coil Size (HxL)	in <sup>2</sup>	14" x 36"	14" x 42"
		(mm) <sup>2</sup>	(355.6 x 914.4)	(355.6 x 1066.8)
	Face Area	sq ft (m <sup>2</sup> )	3.50 (0.33)	4.08 (0.38)
	Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)
	Tube Type		Plain	Inn. Grv.
	Rows		4	4
	Fin Type		Precoated Slit	Precoated Slit
	Fins per inch		18	15
	Refrigerant Flow Control		Capillary Tube	Capillary Tube
	Drain Connection Size	in (mm)	1/2 (12.7)	1/2 (12.7)
<b>ELECTRIC HEATER DATA<sup>1</sup> (for electric heater option only)</b>				
	Heater Rating	kW	5.5 (2 elements)	6 (2 elements)
	Heater RLA		25.0	27.3
				31.8
<b>FAN</b>				
	Fan Type		Centrifugal	Centrifugal
	No. used		2	2
	Diameter	in (mm)	8 (203.2)	9 (228.6)
	Width	in (mm)	9 (228.6)	10 (254.0)
	Drive Type		Direct	Direct
	Nominal Airflow <sup>2</sup>	cfm (cmh)		
<b>MOTOR</b>				
	Motor Type			
	No. of Motor		1	1
	Motor Model		8557MVA-A31	8557MVA-A30
	Motor Power	kW	0.26	0.285
	No. of Speed		4	4
	Motor Speed	rpm	936/1017/1082/1122	823/879/937/994
	Power Input	kW	0.510	0.47
	Power Supply	V/ph/Hz	220/1/60	220/1/60
	RLA/LRA		3.09/7.1	2.15/3.50
				2.15/3.50
<b>FILTER</b>				
	Type		Aluminium Filter	Aluminium Filter
	No. used		2	2
	Size (WxLxD)	in <sup>3</sup>	13.7 x 18.8 x 1.0	15.4 x 21.9 x 1.0
		(mm) <sup>3</sup>	(350 x 478 x 25.4)	(392 x 556 x 25.4)
<b>INDOOR SOUND DATA</b>				
	DBA (Speed - Ex-hi / Hi / Med / Low)		59.9 / 59.3 / 58.0 / 56.7	66.0 / 64.6 / 63.3 / 60.6
				66.0 / 64.6 / 63.3 / 60.6
<b>CONTROL DEVICE</b>				
	Anti-Recycle Time		No	No
	Thermostat		No	No
<b>DIMENSION (HxWxD)</b>				
	Crated (Shipping)	in <sup>3</sup>	-	-
		(mm) <sup>3</sup>	-	-
	Crated (Shipping)**	in <sup>3</sup>	18.9 x 46.0 x 30.6	19.3 x 51.9 x 30.8
		(mm) <sup>3</sup>	(479 x 1168 x 778)	(490 x 1317 x 782)
	Uncrated (Net)	in <sup>3</sup>	-	-
		(mm) <sup>3</sup>	-	-
	Uncrated (Net)**	in <sup>3</sup>	16 x 43.2 x 29.9	16 x 49.2 x 29.8
		(mm) <sup>3</sup>	(408 x 1098 x 759)	(408 x 1251 x 759)
<b>WEIGHT</b>				
	Crated (Shipping)	lb (kg)	117 (51.3)	144 (65.7)
	Crated (Shipping) <sup>1</sup>	lb (kg)	113 (53.3)	151 (68.7)
	Uncrated (Net)	lb (kg)	103 (46.8)	134 (61)
	Uncrated (Net) <sup>1</sup>	lb (kg)	107 (48.8)	119 (54)

- Note**
- 1) MCA - Minimum Circuit Ampacity ; calculated as follow : 125 % of motor R.L.Amps
  - 2) <sup>1</sup> Model with electric heater has alphabetic letter T or Z in the ninth digit.
  - 3) Test at Free blow (0.0 in.Wg ESP) / Dry coil / Using ARI standard 270-84 as a reference for test set up.



## Performance Data/MCD

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MCDA18D1PHAA / MCDA18D1THAA

SPEED	AIR FLOW (CFM)									
	300	340	380	420	460	500	540	580	620	660
LOW	0.05	0.03	0.00							
MED	0.14	0.13	0.10	0.06	0.00					
HIGH	0.22	0.21	0.18	0.14	0.10	0.05	0.00			
EXTRA HIGH	0.32	0.31	0.29	0.26	0.22	0.17	0.12	0.06	0.00	

MCDA24D1PHAA / MCDA24D1UHAA

SPEED	AIR FLOW (CFM)									
	520	560	600	640	680	720	760	800	840	880
LOW	0.13	0.12	0.09	0.05	0.00					
MED	0.24	0.22	0.18	0.13	0.07	0.00				
HIGH	0.31	0.29	0.26	0.22	0.17	0.12	0.06	0.00		
EXTRA HIGH	0.36	0.34	0.31	0.28	0.24	0.20	0.16	0.11	0.06	0.00

MCDA30D1PHAA / MCDA30D1VHAA

SPEED	AIR FLOW (CFM)									
	560	620	680	740	800	860	920	980	1,040	1,100
LOW	0.20	0.17	0.14	0.11	0.08	0.05	0.00			
MED	0.24	0.21	0.18	0.15	0.12	0.09	0.05	0.00		
HIGH	0.27	0.24	0.21	0.19	0.16	0.13	0.09	0.05	0.00	
EXTRA HIGH	0.37	0.33	0.29	0.22	0.19	0.16	0.13	0.09	0.05	0.00

MCDA36D1PHBA / MCDA36D1WHBA

SPEED	AIR FLOW (CFM)									
	880	940	1,000	1,060	1,120	1,180	1,240	1,300	1,360	1,420
LOW	0.14	0.12	0.10	0.07	0.04	0.00				
MEDIUM	0.21	0.19	0.17	0.14	0.10	0.05	0.00			
HIGH	0.28	0.26	0.24	0.21	0.17	0.12	0.06	0.00		
EXTRA HIGH	0.37	0.35	0.33	0.30	0.26	0.21	0.16	0.11	0.06	0.00

## Performance Data/MCD

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### MCDB42D1PHBA / MCDB42D1XHBA

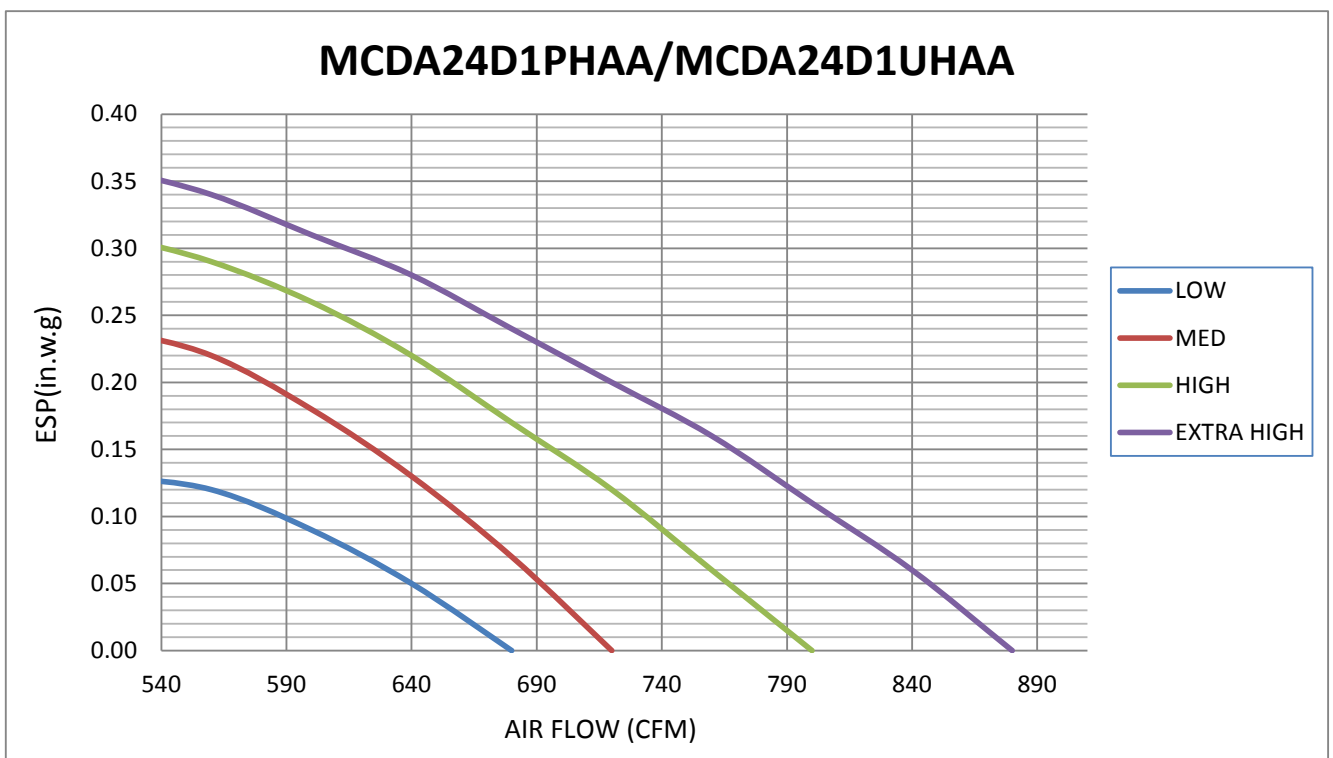
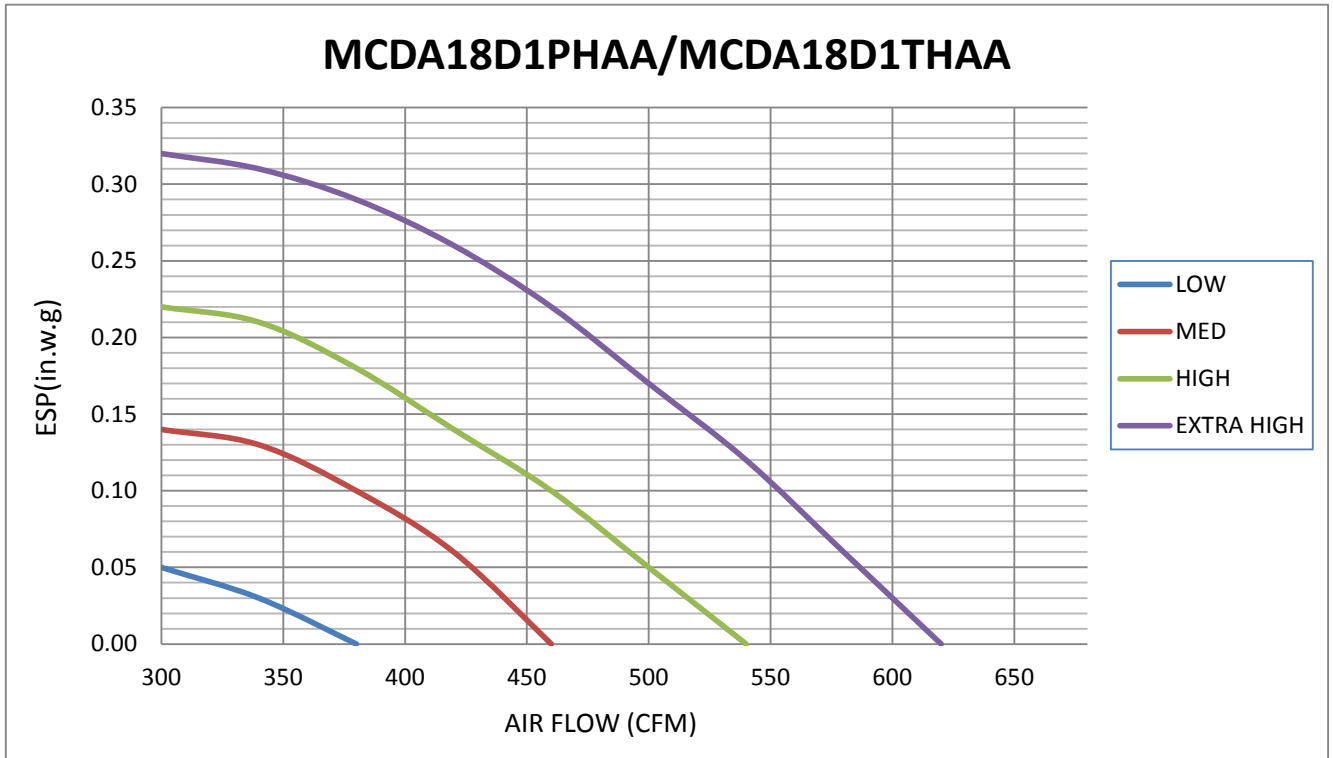
SPEED	AIR FLOW (CFM)							
	700	800	900	1000	1100	1,200	1,300	1,400
LOW	0.44	0.38	0.33	0.25	0.14	0.04	0.00	
MED	0.45	0.4	0.34	0.27	0.19	0.10	0.00	
HIGH	0.46	0.42	0.37	0.29	0.21	0.12	0.04	0.00
EXTRA HIGH	0.48	0.44	0.39	0.32	0.24	0.17	0.07	0.00

### MCDB48D1PHCA / MCDB48D1YHCA and MCDB60D1PHBA / MCDB60D1ZHBA

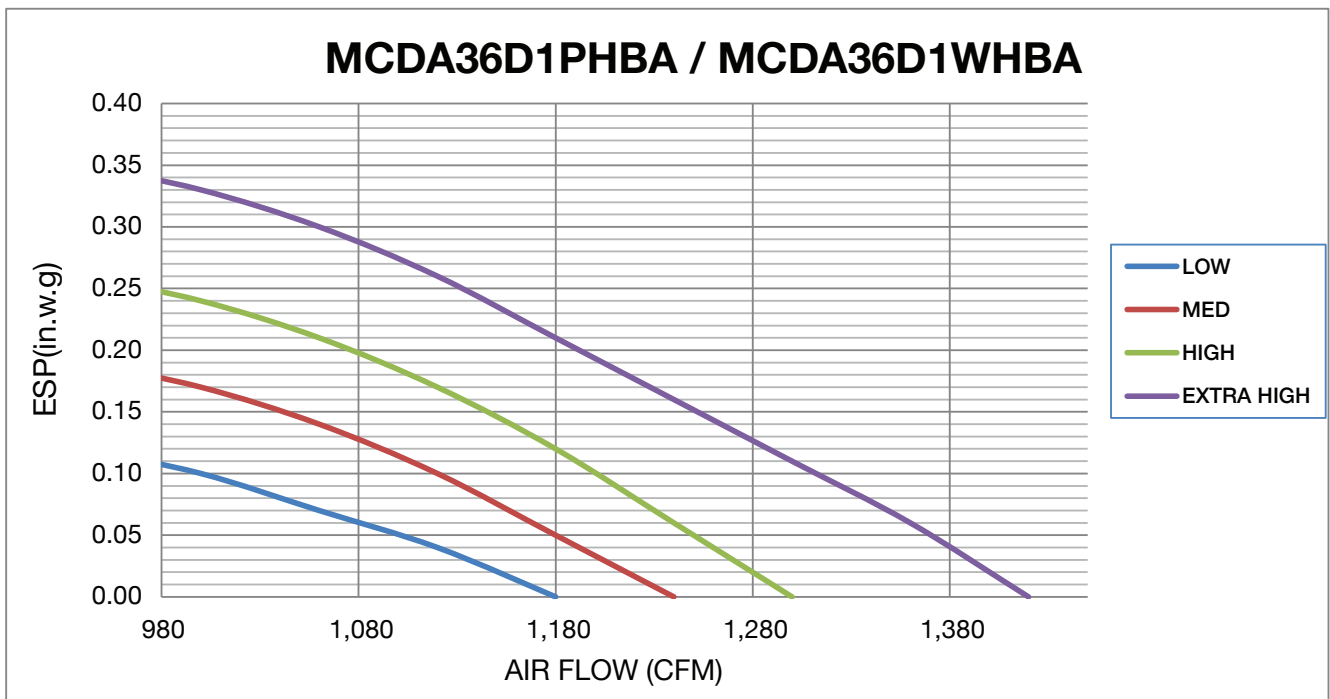
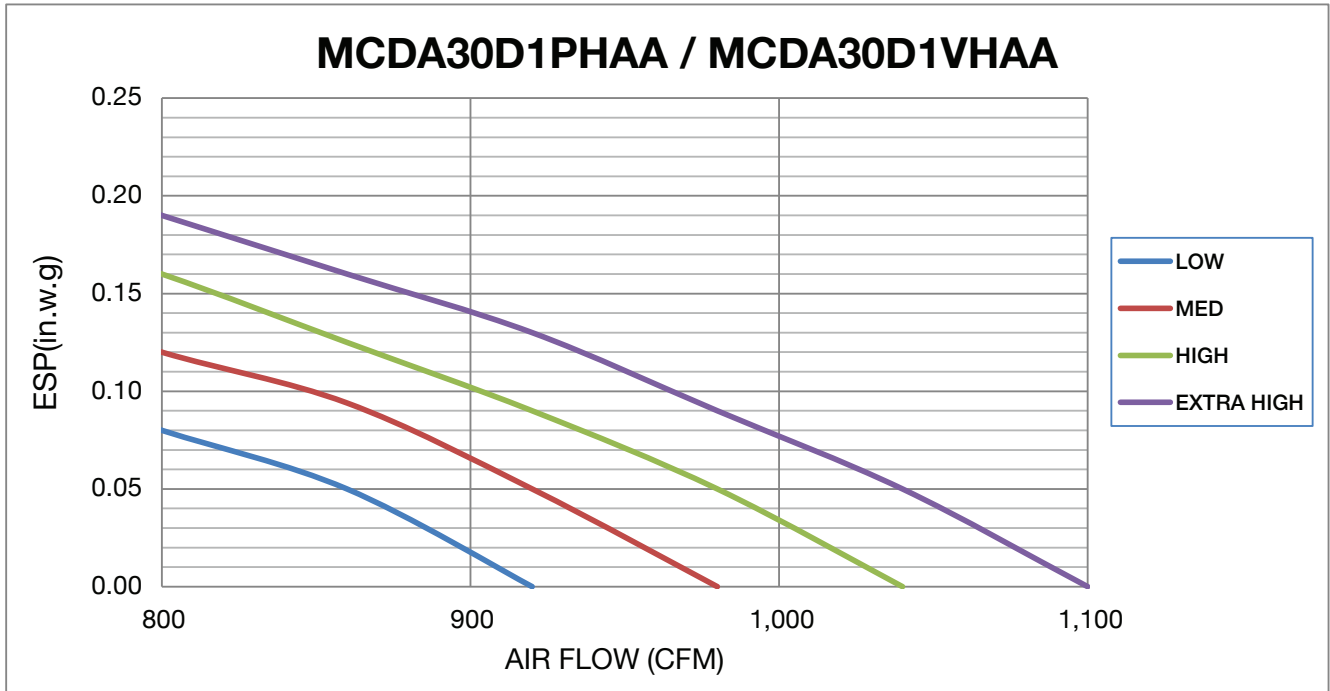
SPEED	AIR FLOW (CFM)								
	1300	1400	1,500	1,600	1700	1800	1900	2,000	2,100
LOW	0.38	0.31	0.22	0.12	0.03	0.00			
MED	0.48	0.42	0.34	0.27	0.20	0.10	0.00		
HIGH	0.50	0.46	0.41	0.32	0.27	0.20	0.10	0.00	
EXTRA HIGH	0.55	0.51	0.46	0.40	0.33	0.24	0.16	0.09	0.00



## Fan Performance Data

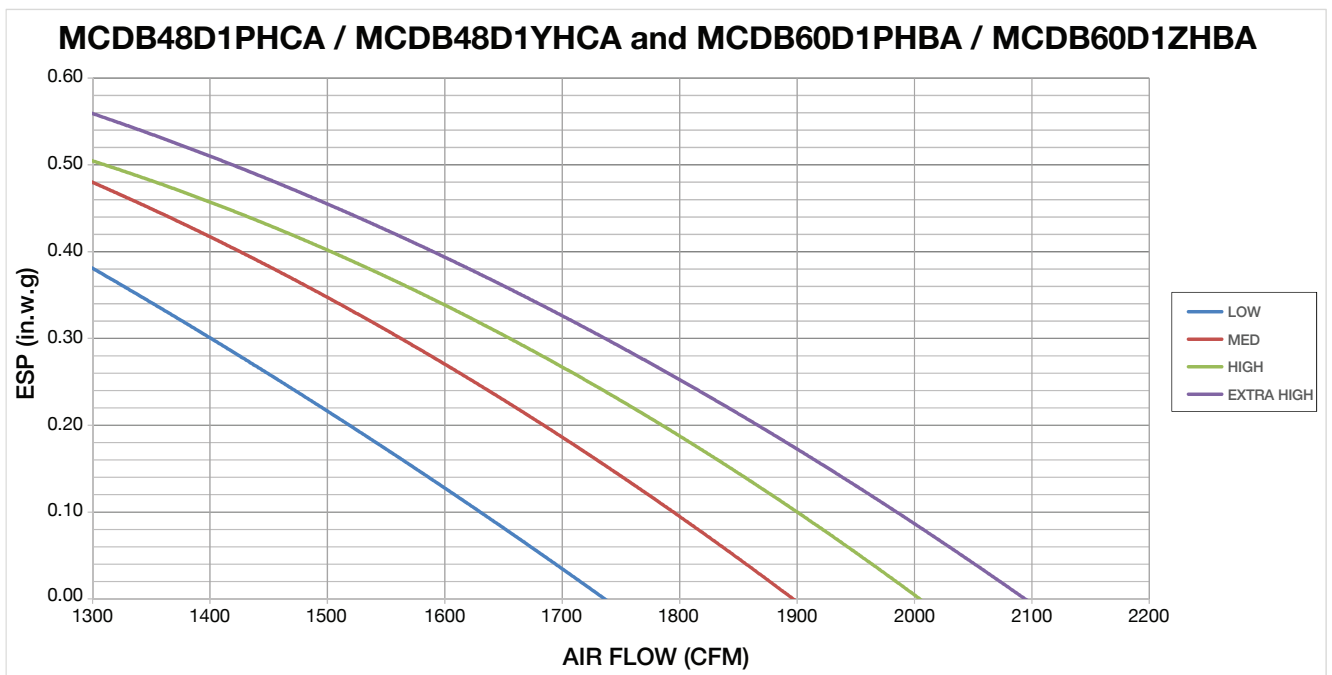
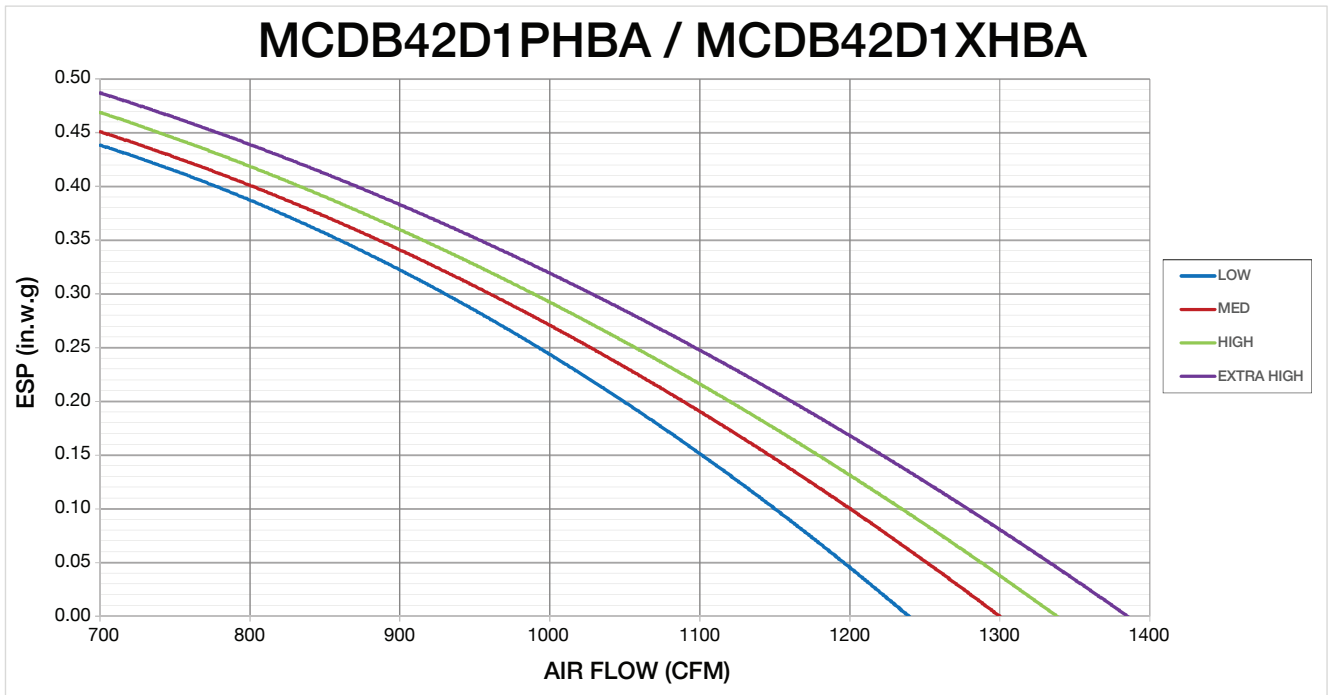


# Fan Performance Data





# Fan Performance Data



# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6018J1S00AA & 4TTR6018J1SE0AA
<b>Indoor Model</b>		MCDA18D1PHAA & MCDA18D1THAA
<b>Airflow</b>		478
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	18,569 Btu/hr	<b>Airflow</b> <b>410</b> <b>540</b>
<b>Airflow</b>	478 CFM	<b>Total Capacity</b> 0.96           1.03
<b>Compressor Power</b>	1,073 Watts	<b>Sensible Capacity</b> 0.93           0.98
<b>Indoor Fan Power</b>	156 Watts	<b>Compressor kW</b> 1.00           0.99
<b>Outdoor Fan Power</b>	139 Watts	
<b>CoP</b>	3.98	
<b>EER</b>	13.57	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	16.70	13.57	15.18	16.90	17.35	1.250
85	63	17.54	11.55	12.87	14.51	15.54	1.241
85	67	18.92	9.39	10.53	12.18	13.33	1.235
95	59	15.94	13.12	14.76	16.20	16.60	1.378
95	63	16.59	10.96	12.44	14.06	15.13	1.371
95	67	17.91	8.81	10.11	11.74	12.79	1.341
105	63	15.59	10.39	12.04	13.59	14.72	1.531
105	67	16.83	8.18	9.78	11.36	12.35	1.523
105	71	18.15	5.80	7.76	8.96	10.17	1.519
115	63	14.58	9.98	11.59	13.17	14.31	1.696
115	67	15.83	7.71	9.28	10.90	11.92	1.668
115	71	16.98	5.16	7.26	8.75	9.76	1.689
120	63	14.05	9.70	11.28	12.88	14.11	1.795
120	67	15.17	7.67	9.05	10.61	11.68	1.789
120	71	16.38	5.00	6.96	8.45	9.40	1.786
125	63	13.50	9.48	11.03	12.73	13.84	1.906
125	67	14.40	7.47	8.90	10.42	11.06	1.902
125	71	15.89	4.93	6.75	8.25	9.30	1.888
<b>Tested Performance @ SASO 2682</b>							
<b>Condition</b>	<b>OD-DB</b>	<b>ID-WB</b>	<b>ID-DB</b>	<b>Capacity</b>	<b>KW</b>	<b>EER</b>	
T1	95	66.2	80.6	17.63	1.35	13.05	
T3	114.8	66.2	84.2	15.79	1.67	9.45	

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F



# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6024J1S00AA & 4TTR6024J1SE0AA
<b>Indoor Model</b>		MCDA24D1PHAA & MCDA24D1UHAA
<b>Airflow</b>		658
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	24,357 BTU/hr	<b>Airflow</b> 730 580
<b>Airflow</b>	658 CFM	<b>Total Capacity</b> 1.02 0.97
<b>Compressor Power</b>	1,550 Watts	<b>Sensible Capacity</b> 1.06 1.13
<b>Indoor Fan Power</b>	197 Watts	<b>Compressor kW</b> 0.99 1.00
<b>Outdoor Fan Power</b>	139 Watts	
<b>CoP</b>	3.78	
<b>EER</b>	12.92	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	22.21	18.04	20.39	22.62	23.16	1.703
85	63	23.96	14.96	17.09	19.30	20.82	1.699
85	67	25.62	11.86	14.03	16.19	17.60	1.685
95	59	21.22	17.41	19.90	21.69	22.22	1.897
95	63	22.82	14.41	16.55	18.77	20.33	1.892
95	67	24.26	11.34	13.50	15.65	17.20	1.889
105	63	21.58	13.85	15.97	18.21	19.83	2.124
105	67	23.03	10.78	12.94	15.03	16.47	2.110
105	71	24.67	7.42	9.67	11.95	13.40	2.097
115	63	20.25	13.22	15.39	17.69	19.32	2.376
115	67	21.59	10.57	12.35	14.41	15.87	2.374
115	71	23.15	6.82	9.17	11.37	12.80	2.370
120	63	19.55	12.80	15.06	17.40	19.00	2.519
120	67	20.83	9.86	12.03	14.11	15.56	2.515
120	71	22.34	6.60	8.86	11.09	12.51	2.514
125	63	18.83	12.56	14.74	17.11	18.76	2.678
125	67	20.03	9.56	11.70	13.76	15.26	2.667
125	71	21.49	6.18	8.57	10.87	12.18	2.652

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	23.05	1.92	12.03
T3	114.8	66.2	84.2	20.98	2.56	8.21

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F

# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6030J1S00AA & 4TTR6030J1SE0AA
<b>Indoor Model</b>		MCDA30D1PHAA & MCDA30D1VHAA
<b>Airflow</b>		799
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	26,656 BTU/Hr	<b>Airflow</b> 725 875
<b>Airflow</b>	799 CFM	<b>Total Capacity</b> 0.98 1.02
<b>Compressor Power</b>	1,729 Watts	<b>Sensible Capacity</b> 0.95 1.07
<b>Indoor Fan Power</b>	285 Watts	<b>Compressor kW</b> 1.00 1.01
<b>Outdoor Fan Power</b>	139 Watts	
<b>CoP</b>	3.63	
<b>EER</b>	12.38	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	25.85	20.36	23.03	25.10	25.64	1.951
85	63	26.28	16.52	19.08	21.73	23.50	1.948
85	67	27.90	12.49	15.15	17.76	19.53	1.959
95	59	24.71	19.86	22.64	24.15	24.71	2.162
95	63	25.11	15.96	18.67	21.27	23.03	2.161
95	67	26.66	11.89	14.64	17.32	19.06	2.219
105	63	23.95	15.45	18.15	20.81	22.59	2.388
105	67	25.33	11.29	13.96	16.63	18.59	2.389
105	71	26.72	7.09	10.15	12.55	14.40	2.389
115	63	22.66	14.77	17.63	20.29	22.16	2.640
115	67	24.20	10.81	13.43	16.07	17.85	2.637
115	71	25.15	6.79	9.37	12.16	13.91	2.650
120	63	21.99	14.47	17.18	20.00	21.80	2.792
120	67	23.30	10.54	13.23	15.88	17.81	2.799
120	71	24.34	6.47	9.17	11.83	13.61	2.798
125	63	21.30	14.22	16.91	19.59	21.30	2.936
125	67	22.43	10.25	12.96	15.66	17.35	2.956
125	71	23.50	6.24	8.96	11.63	13.39	2.936

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	26.60	2.24	11.85
T3	114.8	66.2	84.2	24.19	2.66	9.08

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F



# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6036B1S00AA & 4TTR6036B1SE0AA
<b>Indoor Model</b>		MCDA36D1PHAA & MCDA36D1WHAA
<b>Airflow</b>		983
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	33,409 BTU/Hr	<b>Airflow</b> 900 1080
<b>Airflow</b>	983 CFM	<b>Total Capacity</b> 0.98 1.02
<b>Compressor Power</b>	2,214 Watts	<b>Sensible Capacity</b> 0.95 1.05
<b>Indoor Fan Power</b>	276 Watts	<b>Compressor kW</b> 0.99 1.00
<b>Outdoor Fan Power</b>	236 Watts	
<b>CoP</b>	3.59	
<b>EER</b>	12.26	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	31.88	25.32	28.56	31.17	31.88	1.963
85	63	33.00	20.65	23.79	26.99	29.07	1.975
85	67	35.10	15.85	19.05	22.25	24.29	1.989
95	59	30.59	24.63	27.88	29.92	30.59	2.163
95	63	31.43	19.94	23.13	26.29	28.45	2.161
95	67	33.41	15.15	18.38	21.54	23.65	2.170
105	63	29.74	19.25	22.41	25.60	27.78	2.373
105	67	31.63	14.38	17.64	20.89	22.96	2.373
105	71	33.65	9.48	12.79	16.01	18.17	2.383
115	63	28.05	18.45	21.70	24.95	27.13	2.608
115	67	29.75	13.69	16.93	20.11	22.28	2.602
115	71	31.65	8.79	12.05	15.30	17.63	2.625
120	63	27.15	18.09	21.30	24.62	26.71	2.742
120	67	28.77	13.34	16.56	19.74	21.92	2.719
120	71	30.59	8.34	11.74	14.92	17.10	2.751
125	63	26.21	17.69	20.93	24.24	26.16	2.890
125	67	27.69	12.94	16.19	19.38	21.52	2.877
125	71	29.49	8.04	11.35	14.56	16.66	2.886

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	33.28	2.73	12.18
T3	114.8	66.2	84.2	31.20	3.37	9.25

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F

# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6042J1S00AA & 4TTR6042J1SE0AA
<b>Indoor Model</b>		MCDB42D1PHBA & MCDB42D1XHBA
<b>Airflow</b>		1147
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	38,600 BTU/Hr	<b>Airflow</b> 1089 1204
<b>Airflow</b>	1,147 CFM	<b>Total Capacity</b> 0.97 0.99
<b>Compressor Power</b>	2,606 Watts	<b>Sensible Capacity</b> 1.03 1.09
<b>Indoor Fan Power</b>	294 Watts	<b>Compressor kW</b> 1.01 1.01
<b>Outdoor Fan Power</b>	144 Watts	
<b>CoP</b>	3.72	
<b>EER</b>	12.70	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	36.96	29.48	33.13	35.82	36.96	2.708
85	63	38.09	23.82	27.53	31.72	34.24	2.711
85	67	41.32	18.47	22.36	26.06	28.55	2.722
95	59	35.40	28.90	32.17	34.53	35.40	3.005
95	63	36.34	22.91	26.84	31.02	33.32	3.008
95	67	39.33	17.52	21.50	25.16	27.91	3.091
105	63	34.47	22.08	26.30	29.98	32.30	3.353
105	67	37.24	16.81	20.54	24.19	26.59	3.367
105	71	40.00	11.24	15.27	19.06	21.44	3.378
115	63	32.40	21.36	25.41	28.91	31.11	3.755
115	67	34.58	15.78	19.43	23.41	26.24	3.762
115	71	37.59	10.31	14.38	18.04	20.45	3.778
120	63	31.29	21.09	24.85	28.33	30.44	3.976
120	67	33.37	15.25	18.82	23.09	25.76	3.987
120	71	36.31	10.03	13.86	17.46	19.86	4.003
125	63	30.15	20.47	24.20	27.73	29.72	4.216
125	67	32.12	14.69	18.72	22.72	25.21	4.226
125	71	35.00	9.65	13.28	16.89	19.32	4.237

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	38.65	3.14	12.30
T3	114.8	66.2	84.2	34.10	3.80	8.97

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F





# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6048J1S00AA & 4TTR6048J1SE0AA
<b>Indoor Model</b>		MCDB48D1PHCA & MCDB42D1YHBA
<b>Airflow</b>		1420
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	45,600 BTU/Hr	<b>Airflow</b> 1340 1490
<b>Airflow</b>	1,420 CFM	<b>Total Capacity</b> 1.00 1.00
<b>Compressor Power</b>	2,930 Watts	<b>Sensible Capacity</b> 1.03 1.10
<b>Indoor Fan Power</b>	430 Watts	<b>Compressor kW</b> 1.00 1.00
<b>Outdoor Fan Power</b>	260 Watts	
<b>CoP</b>	3.68	
<b>EER</b>	12.60	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	44.15	35.68	40.72	43.16	44.15	3.273
85	63	45.25	28.59	33.42	38.25	41.63	3.277
85	67	47.99	21.45	26.17	31.02	34.22	3.282
95	59	42.34	34.78	39.74	41.38	42.34	3.607
95	63	43.11	27.67	32.46	37.36	40.79	3.611
95	67	45.68	20.58	25.30	30.09	33.34	3.609
105	63	40.86	26.72	31.50	36.46	39.84	3.995
105	67	43.18	19.62	24.41	29.20	32.34	4.006
105	71	45.96	12.33	17.22	21.98	25.18	4.021
115	63	38.38	25.71	30.51	35.52	38.34	4.432
115	67	40.54	19.12	23.44	28.15	31.37	4.415
115	71	43.15	11.45	16.16	21.04	24.25	4.462
120	63	37.13	25.14	29.99	34.98	37.13	4.670
120	67	39.14	18.09	22.93	27.65	30.88	4.687
120	71	41.66	10.92	15.63	20.93	23.75	4.702
125	63	35.94	24.61	29.45	34.50	35.94	4.923
125	67	37.67	17.50	22.40	27.13	30.37	4.938
125	71	40.11	10.27	15.20	20.00	23.26	4.958

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	45.43	3.61	12.57
T3	114.8	66.2	84.2	41.88	4.43	9.46

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F

# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTR6060J1S00AA & 4TTR6060J1SE0AA
<b>Indoor Model</b>		MCDB60D1PHBA & MCDB60D1ZHBA
<b>Airflow</b>		1530
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	55,500 BTU/Hr	<b>Airflow</b> 1453 1606
<b>Airflow</b>	1,530 CFM	<b>Total Capacity</b> 1.00 0.98
<b>Compressor Power</b>	3,800 Watts	<b>Sensible Capacity</b> 1.10 1.03
<b>Indoor Fan Power</b>	430 Watts	<b>Compressor kW</b> 1.00 1.00
<b>Outdoor Fan Power</b>	250 Watts	
<b>CoP</b>	3.60	
<b>EER</b>	12.30	

Rated with 25 Feet 7/8 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	53.60	41.94	47.48	52.49	53.60	4.030
85	63	55.46	34.34	39.54	44.72	48.33	4.051
85	67	58.82	26.77	31.82	36.99	40.42	4.083
95	59	51.39	40.75	46.28	50.27	51.39	4.474
95	63	52.80	33.15	38.29	43.54	47.17	4.449
95	67	55.97	25.48	30.66	35.80	40.23	4.498
105	63	50.00	31.90	37.05	42.33	46.07	4.975
105	67	52.95	24.31	29.45	34.59	37.96	5.000
105	71	56.24	16.45	21.69	26.89	30.26	5.045
115	63	47.01	30.55	35.77	41.09	44.88	5.529
115	67	49.69	23.02	28.21	33.23	36.66	5.587
115	71	52.82	15.08	20.49	25.66	29.02	5.608
120	63	45.41	29.90	35.10	40.48	44.22	5.833
120	67	48.02	22.00	27.51	32.58	36.07	5.854
120	71	51.02	14.57	19.88	24.95	28.36	5.862
125	63	43.83	29.19	34.41	39.93	43.63	6.127
125	67	46.27	21.65	26.87	31.94	35.41	6.200
125	71	49.18	13.86	19.21	24.66	27.79	6.226

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	55.26	4.51	12.24
T3	114.8	66.2	84.2	50.92	5.61	9.08

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F



# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTA6036B5S00AA & 4TTA6036B5SE0AA
<b>Indoor Model</b>		MCDA36D1PHBA & MCDA36D1WHAA
<b>Airflow</b>		980
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	32,600 BTU/Hr	<b>Airflow</b> 930 1030
<b>Airflow</b>	980 CFM	<b>Total Capacity</b> 0.98 1.00
<b>Compressor Power</b>	2,260 Watts	<b>Sensible Capacity</b> 1.04 1.10
<b>Indoor Fan Power</b>	280 Watts	<b>Compressor kW</b> 1.00 1.00
<b>Outdoor Fan Power</b>	150 Watts	
<b>CoP</b>	3.55	
<b>EER</b>	12.10	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	31.62	25.29	28.56	30.93	31.62	2.407
85	63	32.55	20.68	23.80	26.97	29.09	2.411
85	67	34.63	15.98	19.14	22.30	24.35	2.421
95	59	30.36	24.63	27.97	29.69	30.36	2.682
95	63	31.06	20.02	23.15	26.32	28.53	2.685
95	67	32.56	15.32	18.51	21.64	23.67	2.685
105	63	29.41	19.34	22.47	25.66	27.87	2.994
105	67	30.82	14.66	17.84	20.95	23.03	3.004
105	71	33.29	9.78	13.14	16.28	18.37	3.017
115	63	27.71	18.61	21.77	25.04	27.17	3.348
115	67	28.97	13.91	17.14	20.26	22.36	3.357
115	71	31.34	9.10	12.31	15.62	17.69	3.369
120	63	26.85	18.23	21.41	24.68	26.77	3.544
120	67	28.02	13.55	16.79	19.92	22.02	3.552
120	71	30.31	8.76	11.96	15.23	17.35	3.564
125	63	25.99	17.86	21.05	24.35	25.99	3.755
125	67	27.02	13.16	16.39	19.55	21.68	3.763
125	71	29.23	8.40	11.66	15.00	16.35	3.776

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	32.31	2.69	12.00
T3	114.8	66.2	84.2	30.30	3.36	9.01

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F

# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTA6042B5S00AA & 4TTA6042B5SE0AA
<b>Indoor Model</b>		MCDB42D1PHBA & MCDB42D1XHBA
<b>Airflow</b>		1180
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	38,500 BTU/Hr	<b>Airflow</b> 1120 1240
<b>Airflow</b>	1,180 CFM	<b>Total Capacity</b> 0.98 1.00
<b>Compressor Power</b>	2,647 Watts	<b>Sensible Capacity</b> 1.04 1.11
<b>Indoor Fan Power</b>	350 Watts	<b>Compressor kW</b> 1.00 1.00
<b>Outdoor Fan Power</b>	150 Watts	
<b>CoP</b>	3.58	
<b>EER</b>	12.20	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	37.57	30.13	34.40	36.73	37.57	2.830
85	63	38.58	24.22	28.27	32.28	35.06	2.835
85	67	40.93	18.26	22.24	26.25	28.91	2.848
95	59	36.01	29.33	33.53	35.18	36.01	3.143
95	63	36.74	23.41	27.41	31.48	34.35	3.148
95	67	38.88	17.46	21.46	25.46	28.07	3.162
105	63	34.77	22.57	26.57	30.69	33.54	3.501
105	67	36.77	16.63	20.68	24.66	27.28	3.517
105	71	39.14	10.48	14.60	18.64	21.29	3.539
115	63	32.69	21.68	25.72	29.88	32.52	3.904
115	67	35.10	15.77	19.82	23.78	26.44	3.920
115	71	36.77	9.73	13.78	17.84	20.49	3.943
120	63	31.62	21.24	25.28	29.51	31.62	4.122
120	67	33.37	15.31	19.40	23.36	26.03	4.138
120	71	35.54	9.32	13.38	17.37	20.08	4.162
125	63	30.61	20.80	24.84	29.06	30.61	4.353
125	67	32.19	14.88	18.90	22.90	25.61	4.369
125	71	34.23	8.93	12.92	16.96	19.49	4.391

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	38.40	3.17	12.11
T3	114.8	66.2	84.2	35.07	3.96	8.85

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F



# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTA6048A5S00AA & 4TTA6048A5SE0AA
<b>Indoor Model</b>		MCDB48D1PHCA & MCDB42D1YHBA
<b>Airflow</b>		1420
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	46,000 BTU/Hr	<b>Airflow</b> 1340 1490
<b>Airflow</b>	1,420 CFM	<b>Total Capacity</b> 0.98 1.00
<b>Compressor Power</b>	2,930 Watts	<b>Sensible Capacity</b> 1.04 1.11
<b>Indoor Fan Power</b>	430 Watts	<b>Compressor kW</b> 1.00 1.00
<b>Outdoor Fan Power</b>	260 Watts	
<b>CoP</b>	3.78	
<b>EER</b>	12.90	

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	45.02	36.21	41.29	44.00	45.02	3.250
85	63	46.23	29.10	33.81	38.79	42.18	3.255
85	67	49.03	21.91	26.75	31.56	34.79	3.266
95	59	43.13	35.24	40.27	42.15	43.13	3.580
95	63	44.00	28.13	32.94	37.89	41.31	3.584
95	67	46.52	20.99	25.80	30.59	33.68	3.594
105	63	41.64	27.14	31.92	36.90	40.32	3.972
105	67	44.00	20.01	24.82	29.56	32.78	3.981
105	71	46.84	12.61	17.79	22.44	25.61	3.992
115	63	39.12	26.04	30.91	35.98	38.97	4.425
115	67	41.31	18.94	23.82	28.57	31.79	4.431
115	71	43.98	11.75	16.53	21.23	24.63	4.440
120	63	37.77	25.51	30.38	35.42	37.77	4.679
120	67	39.94	18.43	23.31	28.05	31.30	4.685
120	71	42.50	11.25	16.03	20.92	24.13	4.692
125	63	36.63	24.92	29.84	34.95	36.63	4.954
125	67	38.48	17.88	22.70	27.54	30.77	4.957
125	71	40.91	10.70	15.59	20.35	23.61	4.962

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	46.16	3.62	12.75
T3	114.8	66.2	84.2	41.10	4.50	9.14

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

All temperatures in Degree F

# Performance Data Cooling

Performance Tables - Capacities are net in Btuh/1000 - indoor fan heat deducted

<b>Outdoor Model</b>		4TTA6060B5S00AA & 4TTA6060B5SE0AA
<b>Indoor Model</b>		MCDA60D1PHBA & MCDB60D1ZHBA
<b>Airflow</b>		1530
<b>Values At ARI Rating Conditions</b>		<b>Correction Factors - Other Airflows</b>
<b>Total Net Capacity</b>	56,500 BTU/Hr	<b>Airflow</b> 1454 1606
<b>Airflow</b>	1,530 CFM	<b>Total Capacity</b> 1.00 0.97
<b>Compressor Power</b>	3,877 Watts	<b>Sensible Capacity</b> 1.10 1.03
<b>Indoor Fan Power</b>	430 Watts	<b>Compressor kW</b> 1.00 0.99
<b>Outdoor Fan Power</b>	250 Watts	
<b>CoP</b>	3.63	
<b>EER</b>	12.40	

Rated with 25 Feet 7/8 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY (ID DB)				POWER
		80.6	72	75	78	80	kW
85	59	54.50	42.51	47.91	53.37	54.61	3.375
85	63	57.00	34.81	40.02	45.23	48.77	3.402
85	67	60.50	27.06	32.20	37.36	40.84	3.446
95	59	52.50	41.24	46.71	51.22	52.38	3.828
95	63	54.00	33.57	38.81	43.98	47.60	3.850
95	67	57.50	25.84	31.01	36.19	40.63	3.897
105	63	51.00	32.30	37.46	42.73	46.36	4.363
105	67	54.50	24.61	29.80	34.94	38.34	4.410
105	71	57.50	16.43	21.80	27.18	30.58	4.464
115	63	48.00	31.00	36.15	41.47	45.24	4.954
115	67	51.50	23.25	28.52	33.61	37.08	4.997
115	71	54.50	15.39	20.74	25.96	29.37	5.051
120	63	46.50	30.30	35.53	40.84	44.58	5.279
120	67	49.50	22.60	27.88	32.98	36.46	5.322
120	71	52.50	14.71	20.10	25.22	28.70	5.373
125	63	45.00	29.63	34.81	40.18	43.97	5.625
125	67	47.50	21.90	27.18	32.27	35.78	5.665
125	71	50.50	14.07	19.35	24.87	28.06	5.715

Tested Performance @ SASO 2682

Condition	OD-DB	ID-WB	ID-DB	Capacity	KW	EER
T1	95	66.2	80.6	56.79	4.61	12.33
T3	114.8	66.2	84.2	51.47	5.67	9.07

Performance at selected design conditions

Dry coil condition (Total Capacity = Sensible Capacity)

Total capacity, compressor kW and app. dew point valid only for wetcoil

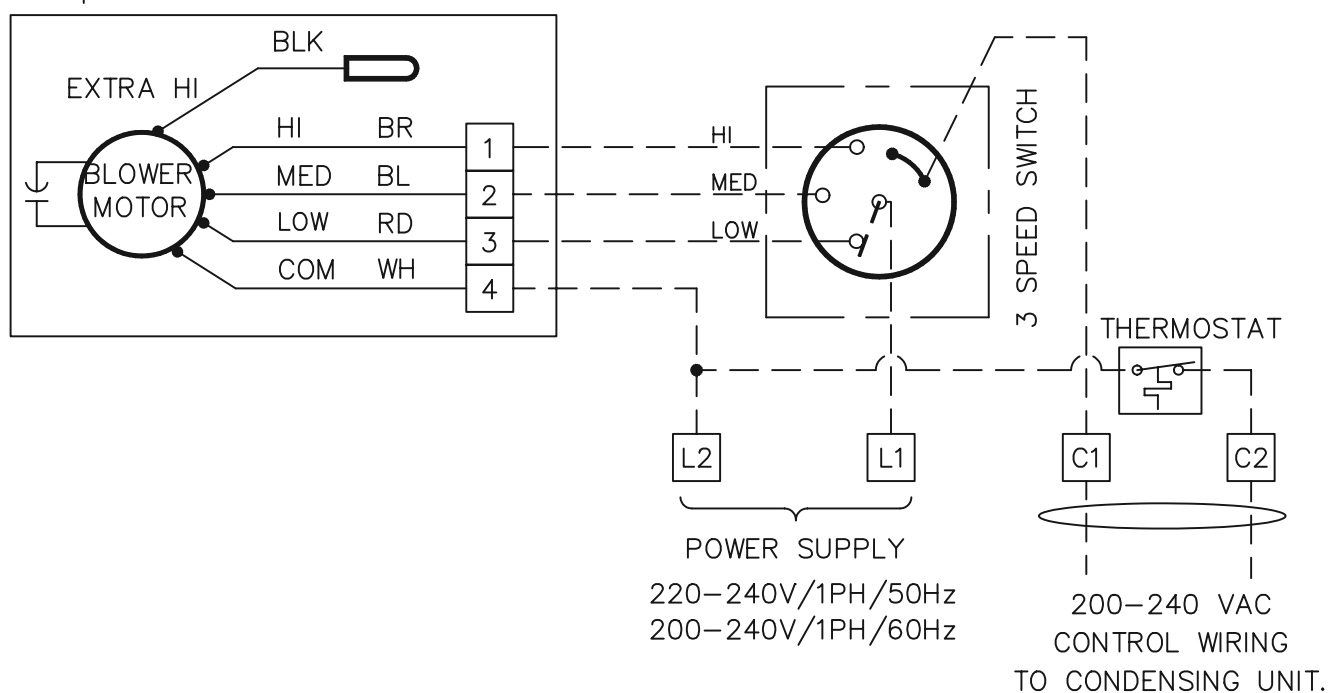
All temperatures in Degree F



## Wiring Diagram/MCD

**COOLING ONLY**  
**MCDA18-536**  
**MCDB42-60**

Remove HI-BR wire from TB-1 and replace with EXTRA HI-BLK wire when high speed/cfm is required in the field.



**LEGEND :**

----- FIELD WIRING  
 \_\_\_\_\_ FACTORY WIRING

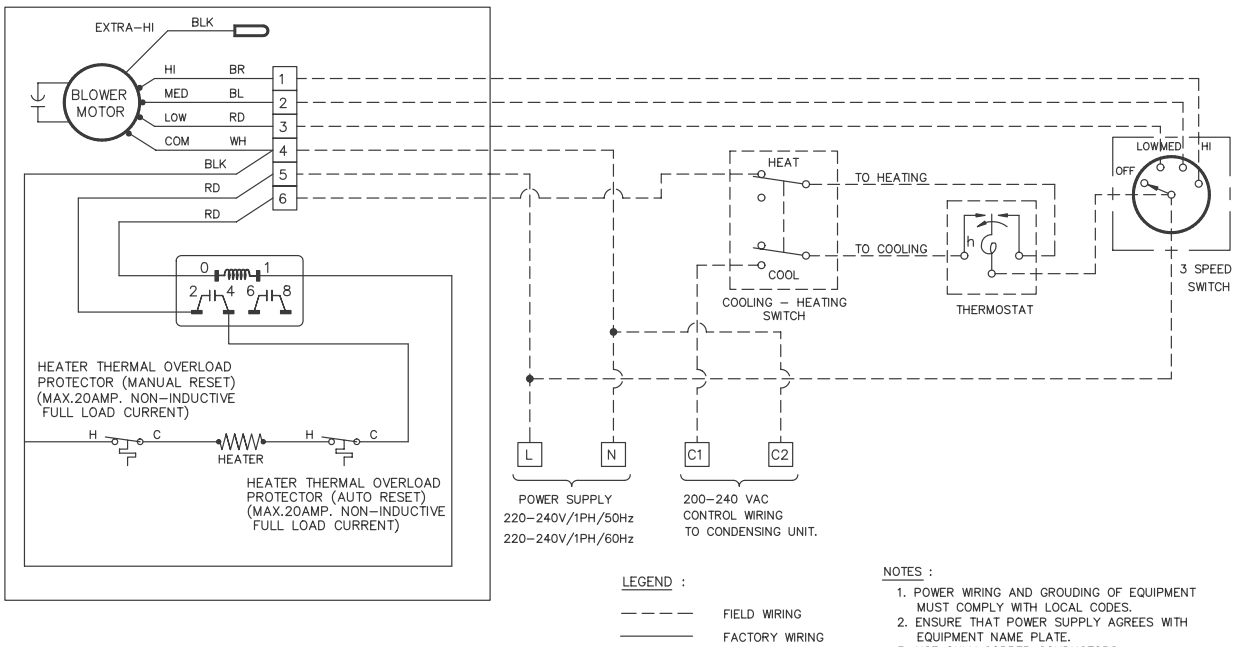
**NOTES :**

1. Power wiring and grounding of equipment must comply with local codes.
2. Ensure that power supply agrees with equipment nameplate.
3. Use only copper conductors.

# Wiring Diagram/MCD

## COOLING HEATING MCDA18-524D1

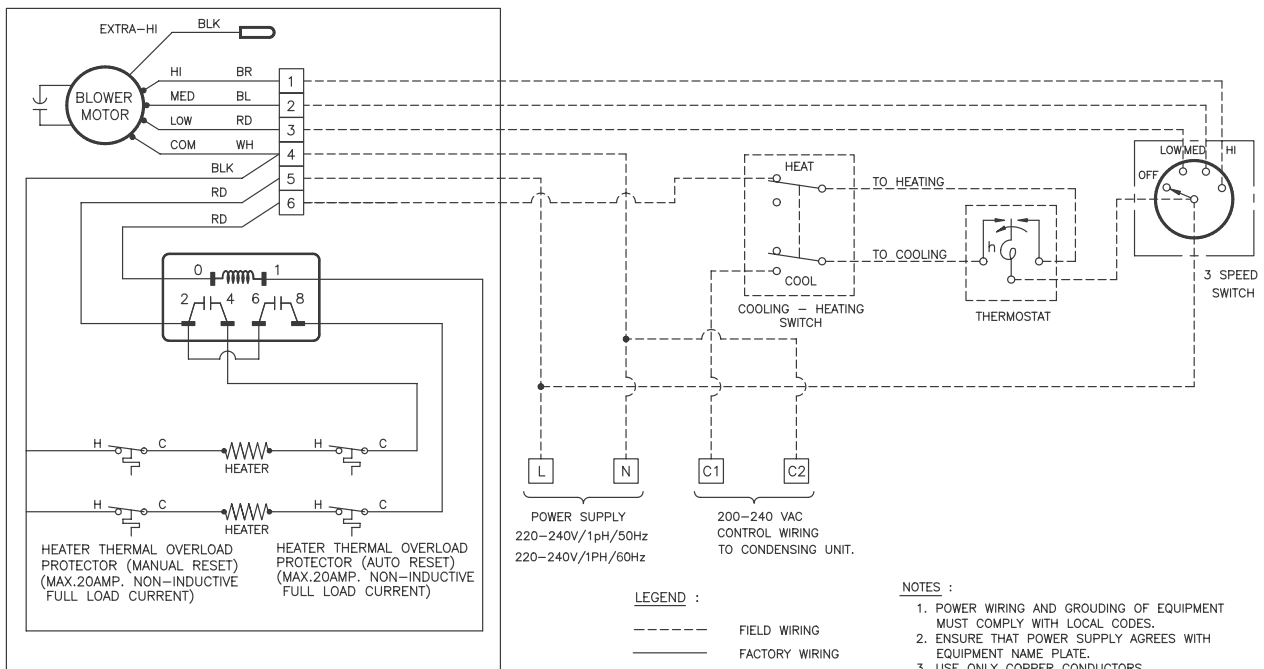
REMOVE HI-BR WIRE FROM TB-1 AND REPLACE WITH EXTRA HI-BLK WIRE WHEN HI SPEED/CFM IS REQUIRED IN THE FIELD.



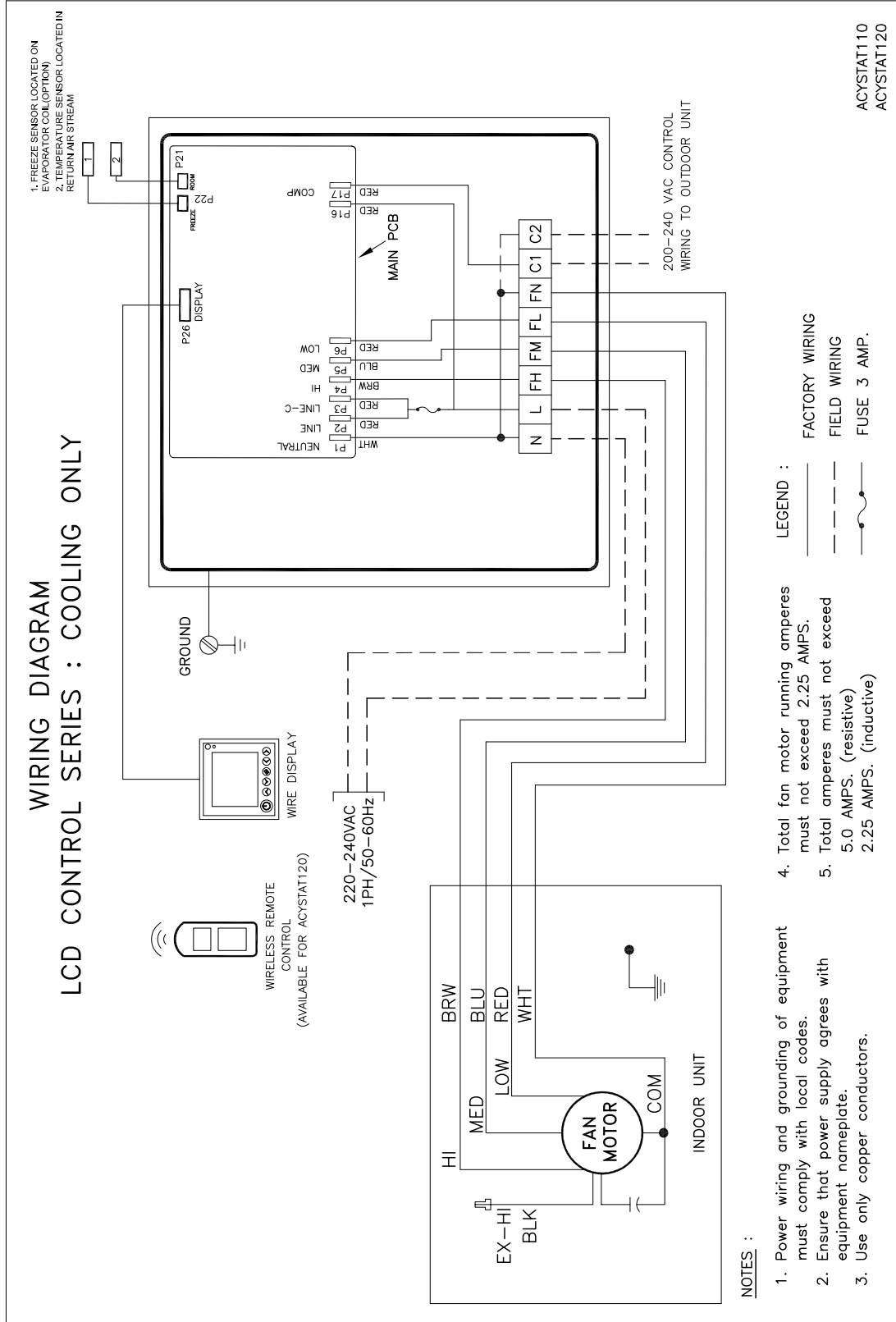
# Wiring Diagram/MCD

## COOLING HEATING MCDA30-36D1 MCDB42-60D1

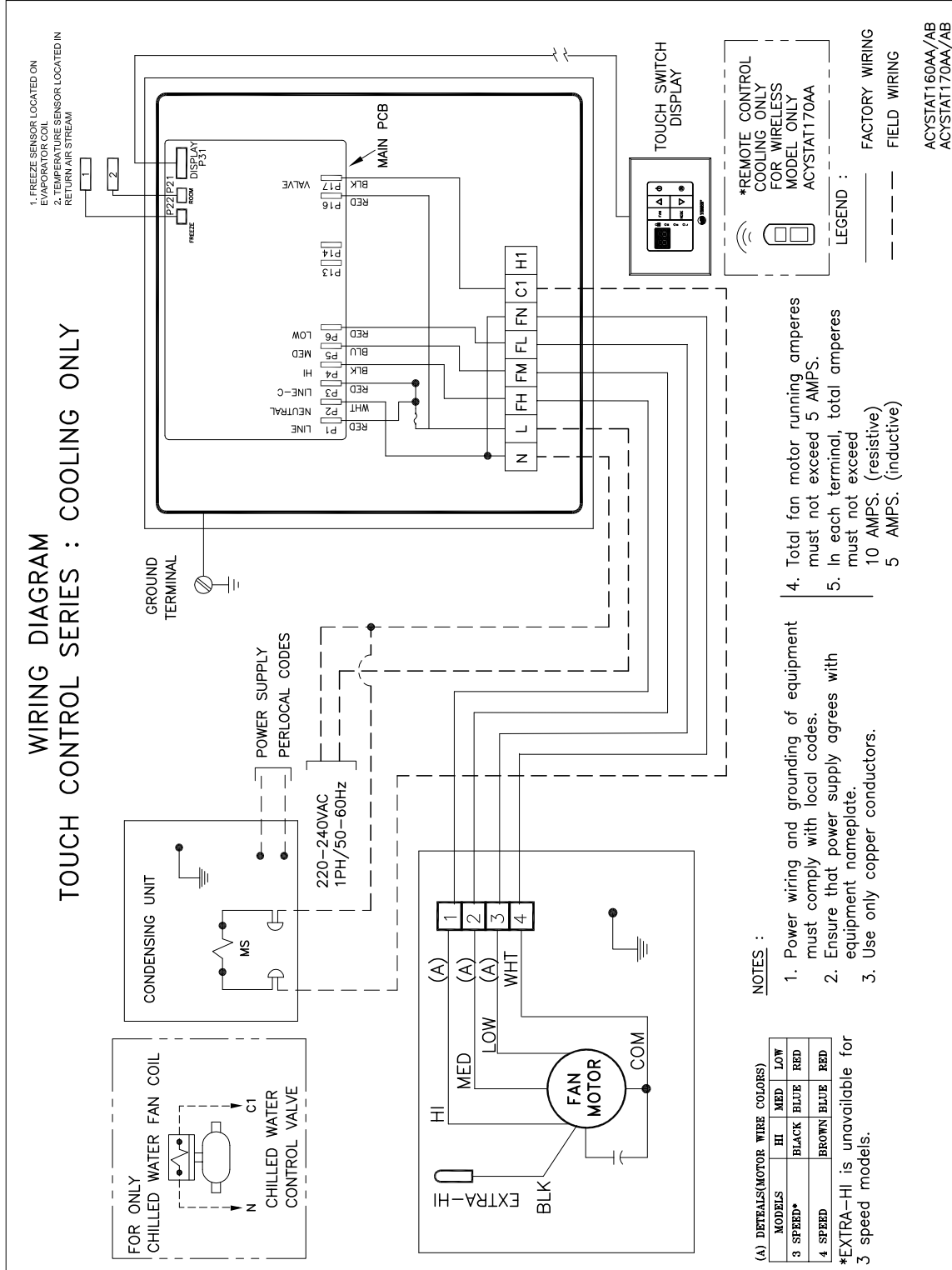
Remove HI-BR wire FROM TB-1 and replace with EXTRA HI-BLK wire when high speed/cfm is required in the field.



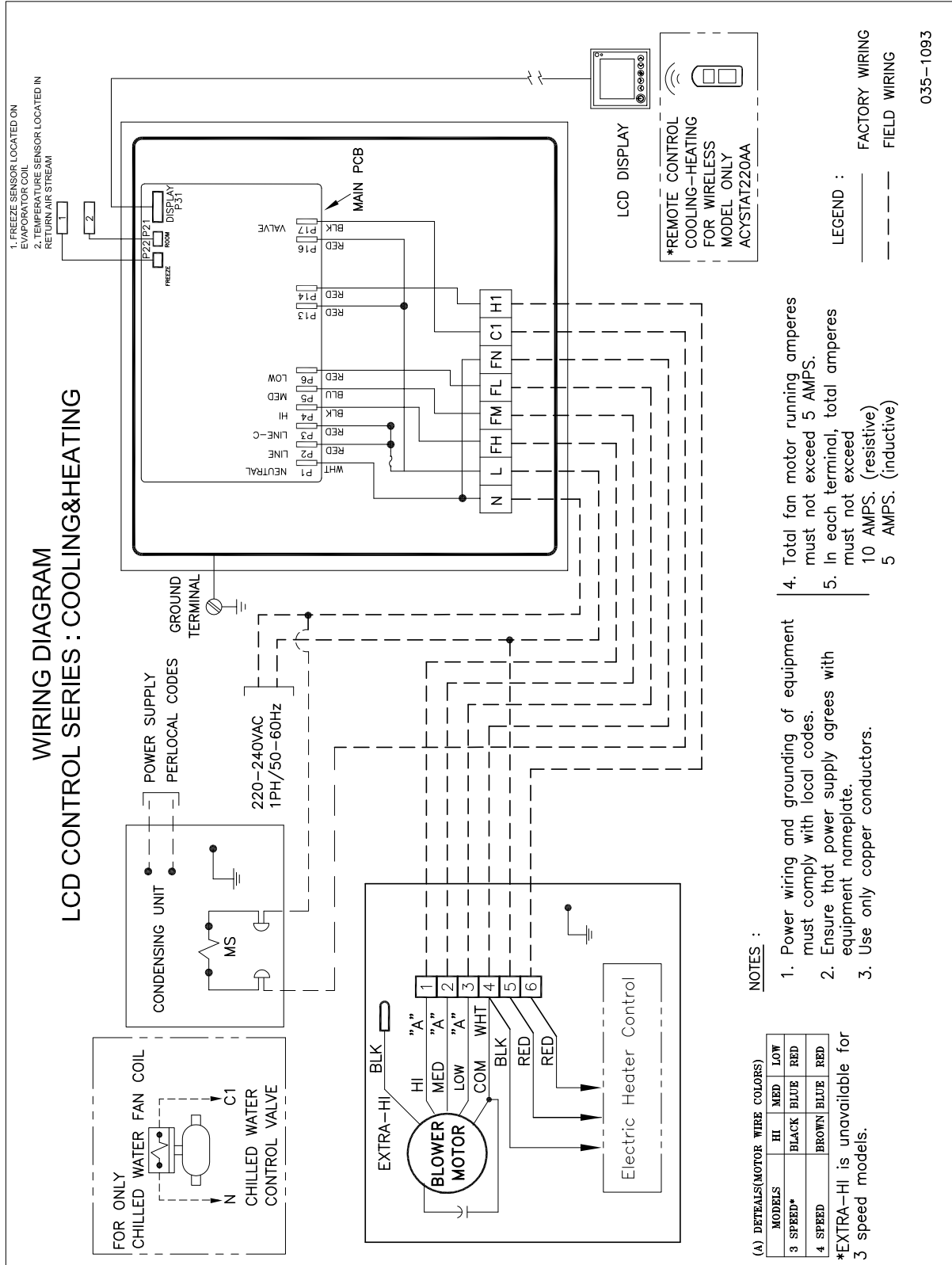
# Wiring Diagram/MCD



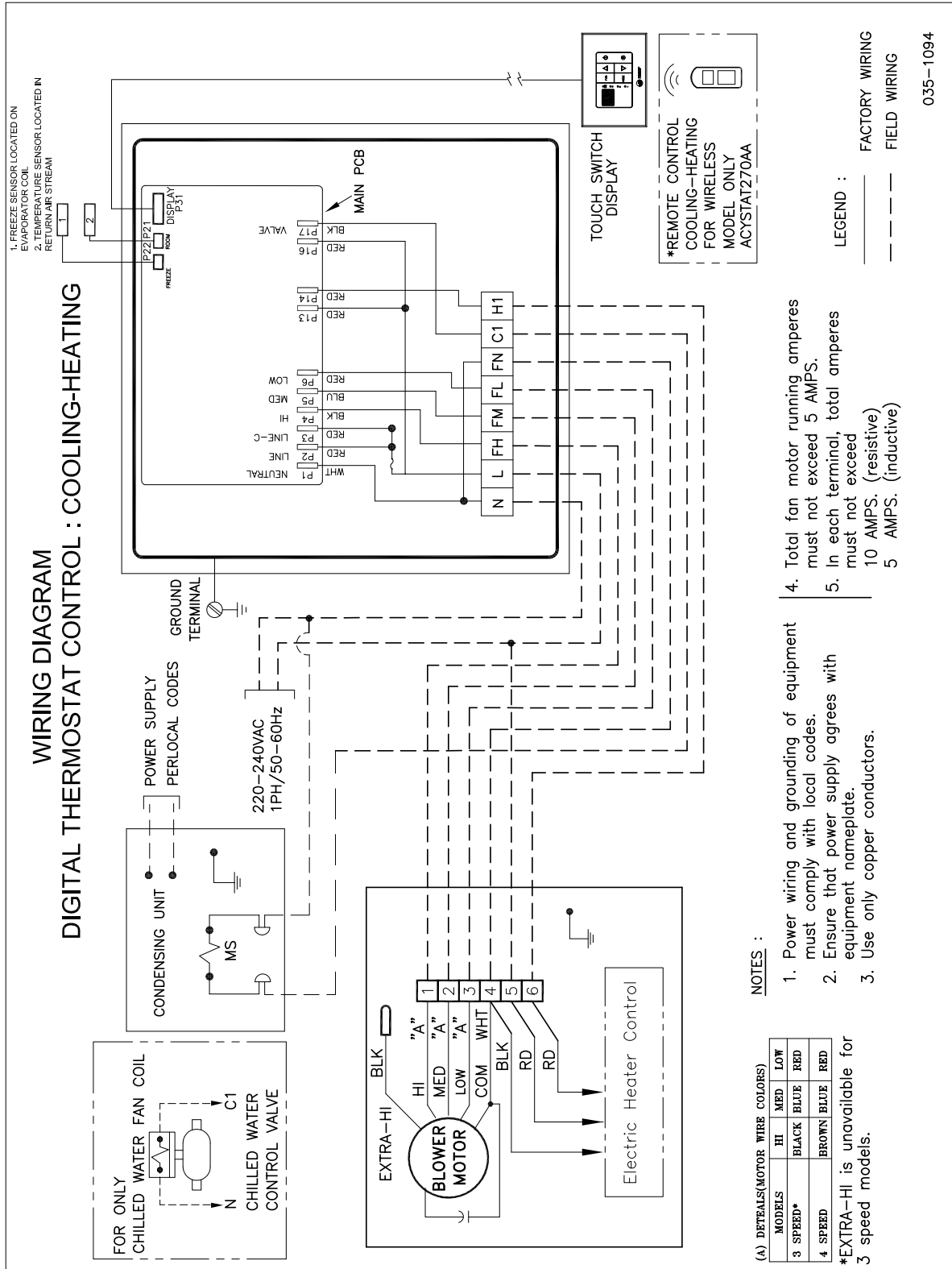
# Wiring Diagram/MCD



# Wiring Diagram/MCD



# Wiring Diagram/MCD

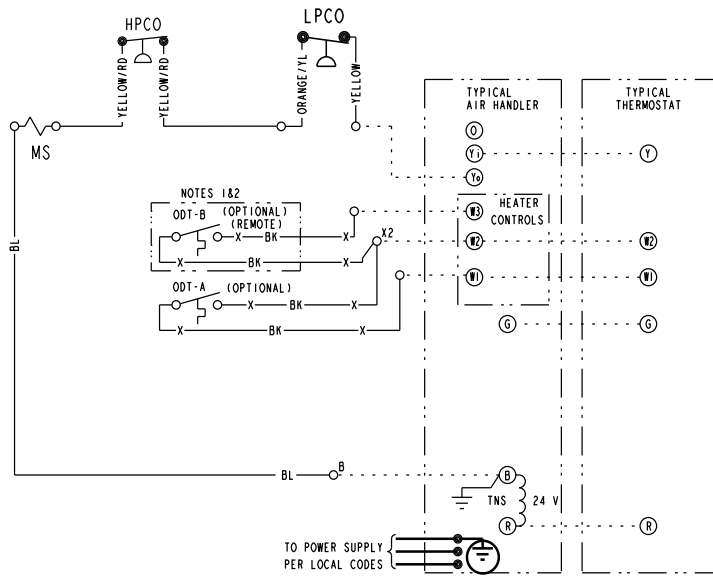
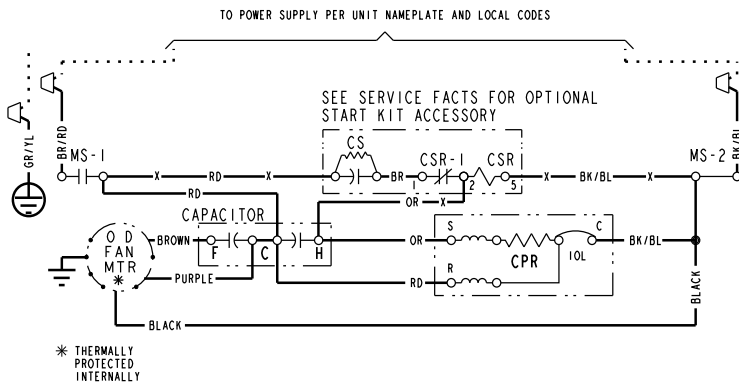




# Electrical Data/4TTR6

## Schematic Diagrams

### 4TTR6018J1, 4TTR6024J1, 4TTR6030J1, 4TTR6036B1, 4TTR6042J1



#### LEGEND-EQUIPMENT DIAGRAM

—	24 V. LINE V.	} FACTORY WIRING
---	24 V. LINE V.	
-X-		} FIELD WIRING
⊥		FIELD INSTALLED FACTORY WIRING
⊥		GROUND
•		JUNCTION
△		WIRE NUT OR CONNECTOR
⊂		COIL
⊂		CAPACITOR
⊂		RELAY CONTACT (N.O.)
⊂		RELAY CONTACT (N.C.)
⊂		THERMISTOR
⊂		INTERNAL OVERLOAD PROTECTOR
⊂		PRESSURE ACTUATED SWITCH
⊂		TEMP. ACTUATED SWITCH
⊂		POL. PLUG FEMALE HOUSING (MALE TERM.)
⊂		POL. PLUG MALE HOUSING (FEMALE TERM.)
⊂		RESISTOR OR HEATING ELEMENT
⊂		MOTOR WINDING
○		TERMINAL

FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES

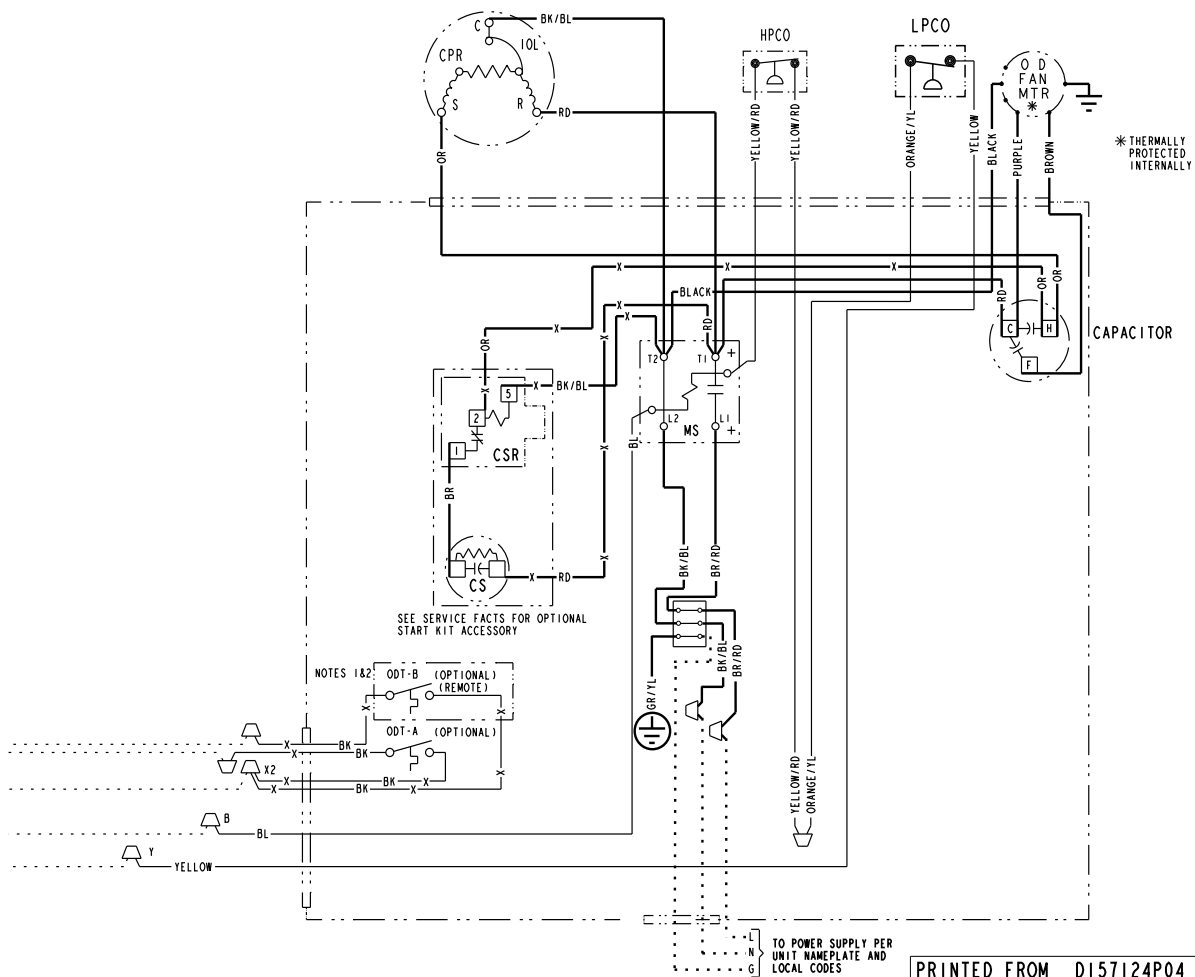
**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.**

- NOTES:
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
  2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
  3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

# Electrical Data/4TTR6

## Schematic Diagrams

4TTR6018J1, 4TTR6024J1, 4TTR6030J1,  
4TTR6036B1, 4TTR6042J1



COLOR OF WIRE			
BK/BL	BLACK WIRE WITH BLUE MARKER		
COLOR OF MARKER			
BK	BLACK	OR	ORANGE
BL	BLUE	RD	RED
BR	BROWN	WH	WHITE
YL	YELLOW	GR	GREEN
		PR	PURPLE

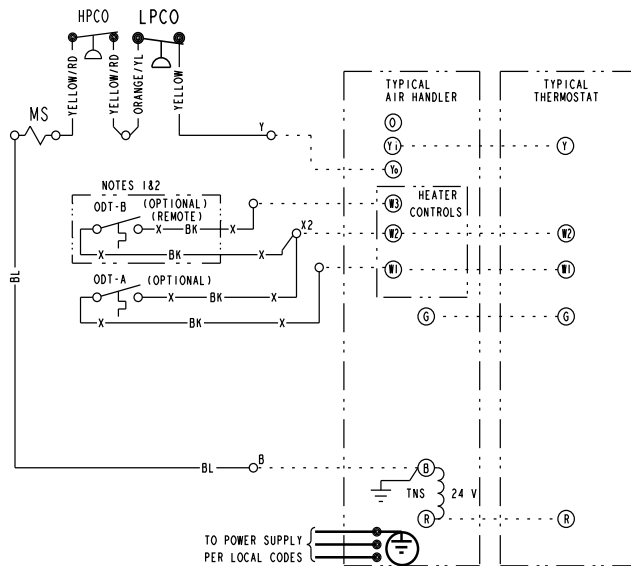
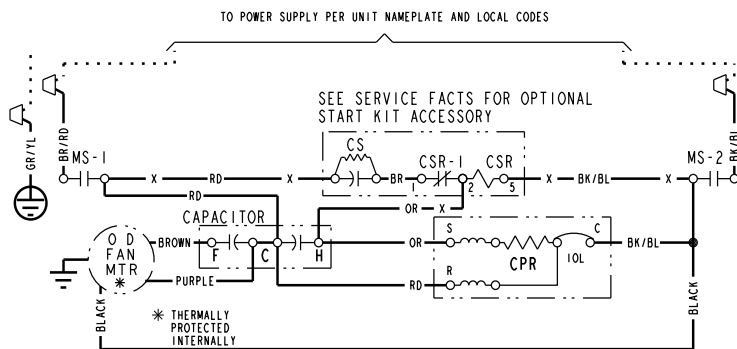
CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOFF SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OF T	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOFF SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT
ACR	A/C RECTIFIER	R	OFF SHUNT RESISTOR

<p><b>⚠ WARNING</b></p> <p>HAZARDOUS VOLTAGE!</p> <p>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p>	<p><b>⚠ CAUTION</b></p> <p>USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p>
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# Electrical Data/4TTR6

## Schematic Diagrams

### 4TTR6048J1



#### LEGEND-EQUIPMENT DIAGRAM

—	24 V.	} FACTORY WIRING
—	LINE V.	
- - -	24 V.	} FIELD WIRING
- - -	LINE V.	
- X -	FIELD INSTALLED FACTORY WIRING	
⊥	GROUND	
•	JUNCTION	
⊕	WIRE NUT OR CONNECTOR	
⊞	COIL	
⊞	CAPACITOR	
⊞	RELAY CONTACT (N.O.)	
⊞	RELAY CONTACT (N.C.)	
⊞	THERMISTOR	
⊞	INTERNAL OVERLOAD PROTECTOR	
⊞	PRESSURE ACTUATED SWITCH	
⊞	TEMP. ACTUATED SWITCH	
⊞	POL. PLUG FEMALE HOUSING (MALE TERM.)	
⊞	POL. PLUG MALE HOUSING (FEMALE TERM.)	
⊞	RESISTOR OR HEATING ELEMENT	
⊞	MOTOR WINDING	
○	TERMINAL	

FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES

**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.**  
**ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.**

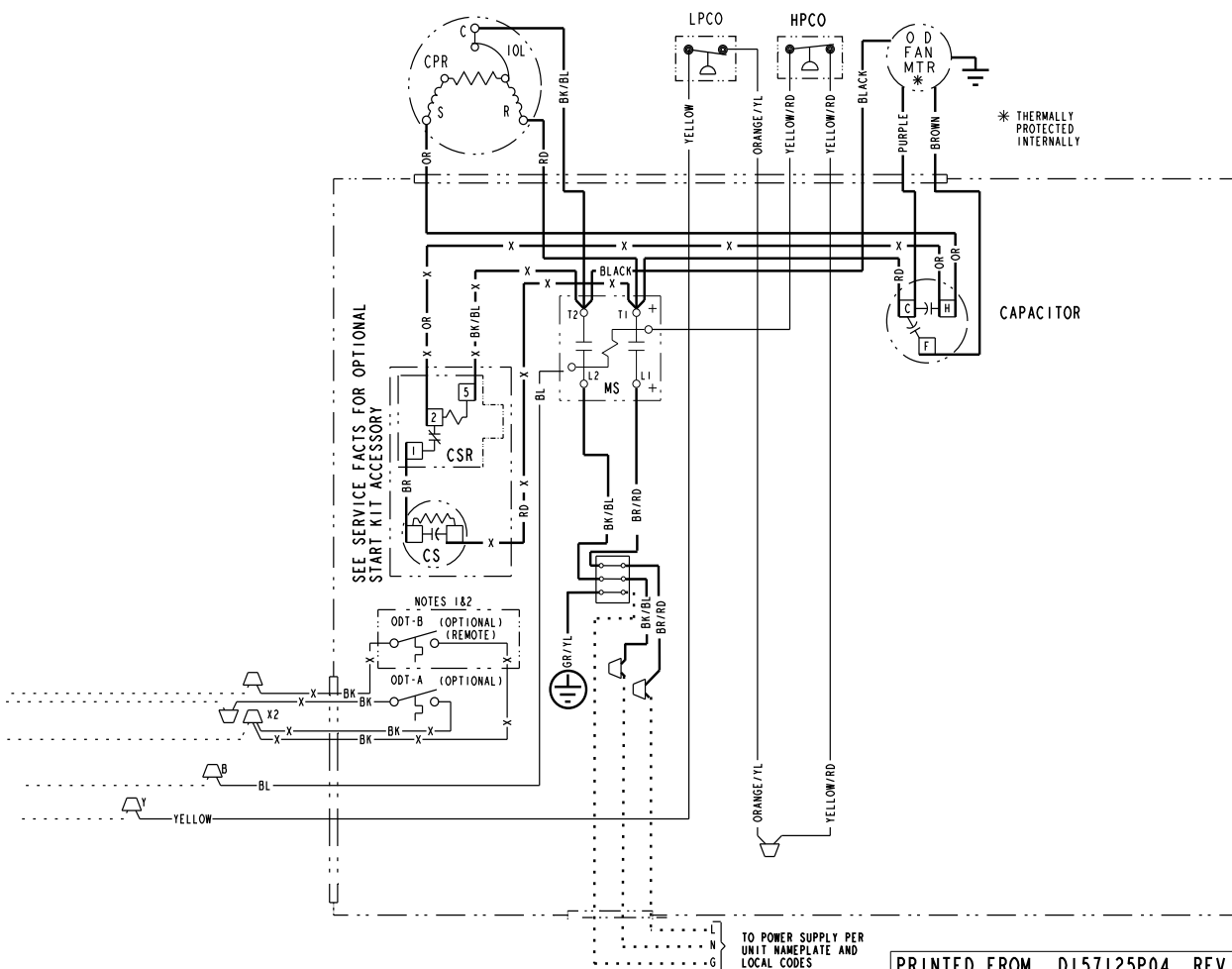
#### NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

# Electrical Data/4TTR6

## Schematic Diagrams

### 4TTR6048J1



COLOR OF WIRE			
BK/BL	BLACK WIRE WITH BLUE MARKER		
COLOR OF MARKER			
BK	OR	YL	YELLOW
BL	RD	GR	GREEN
BR	WH	PR	PURPLE

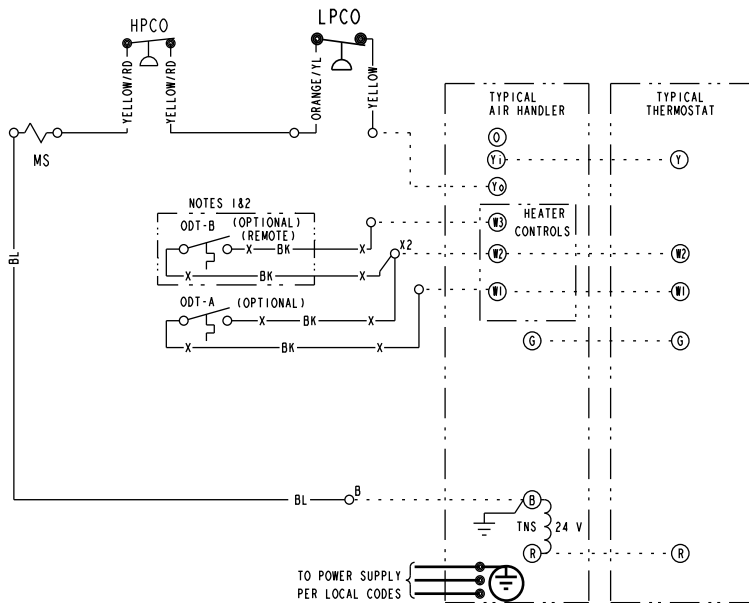
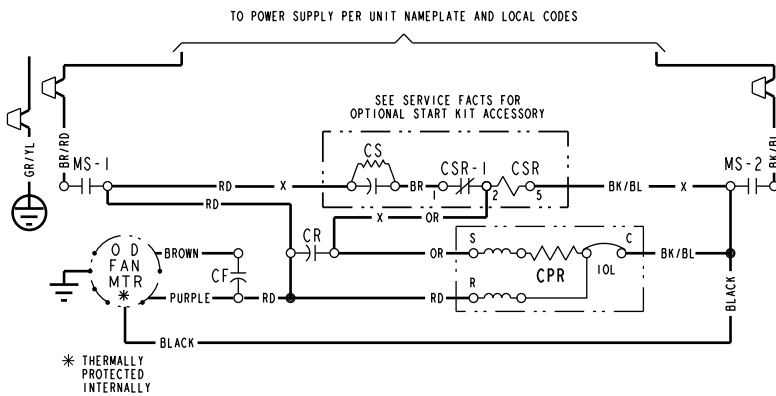
CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOFF SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OFT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SW	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOFF SW.	TSH	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT

<p><b>⚠ WARNING</b> HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p>	<p><b>⚠ CAUTION</b> USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p>
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# Electrical Data/4TTR6

## Schematic Diagrams

### 4TTR6060J1



#### LEGEND-EQUIPMENT DIAGRAM

—	24 V. LINE V.	} FACTORY WIRING
---	24 V. LINE V.	
-X-	FIELD INSTALLED FACTORY WIRING	} FIELD WIRING
⊥	GROUND	
•	JUNCTION	
△	WIRE NUT OR CONNECTOR	
⊃	COIL	
⊃	CAPACITOR	
⊃	RELAY CONTACT (N.O.)	
⊃	RELAY CONTACT (N.C.)	
⊃	THERMISTOR	
⊃	INTERNAL OVERLOAD PROTECTOR	
⊃	PRESSURE ACTUATED SWITCH	
⊃	TEMP. ACTUATED SWITCH	
⊃	POL. PLUG FEMALE HOUSING (MALE TERM.)	
⊃	POL. PLUG MALE HOUSING (FEMALE TERM.)	
⊃	RESISTOR OR HEATING ELEMENT	
⊃	MOTOR WINDING	
○	TERMINAL	

FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES

CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.

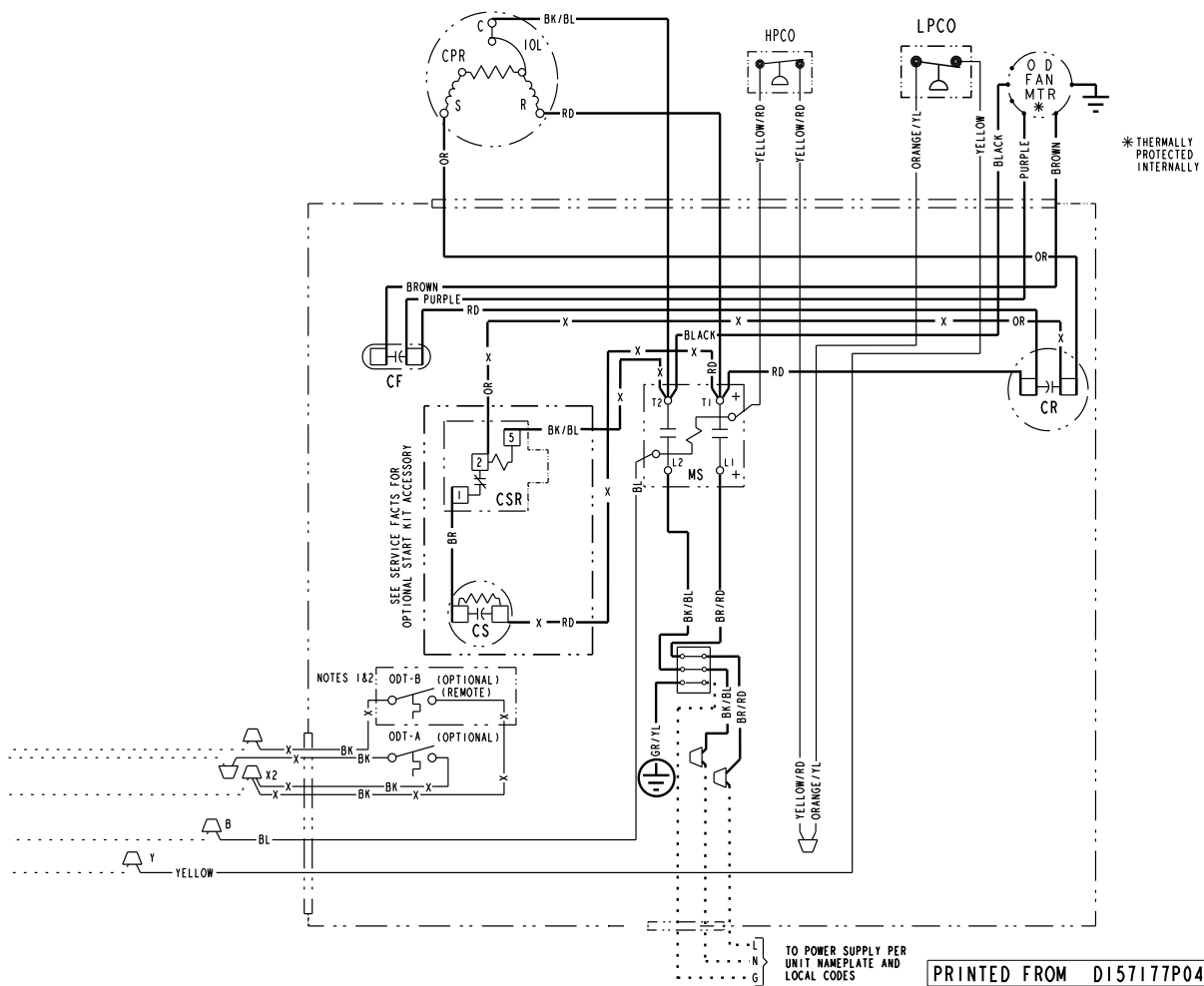
#### NOTES:

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

# Electrical Data/4TTR6

## Schematic Diagrams

### 4TTR6060J1



COLOR OF WIRE		
BK/BL	BLACK WIRE WITH BLUE MARKER	
COLOR OF MARKER		
BK	OR	YL
BL	RD	GR
BR	WH	PR

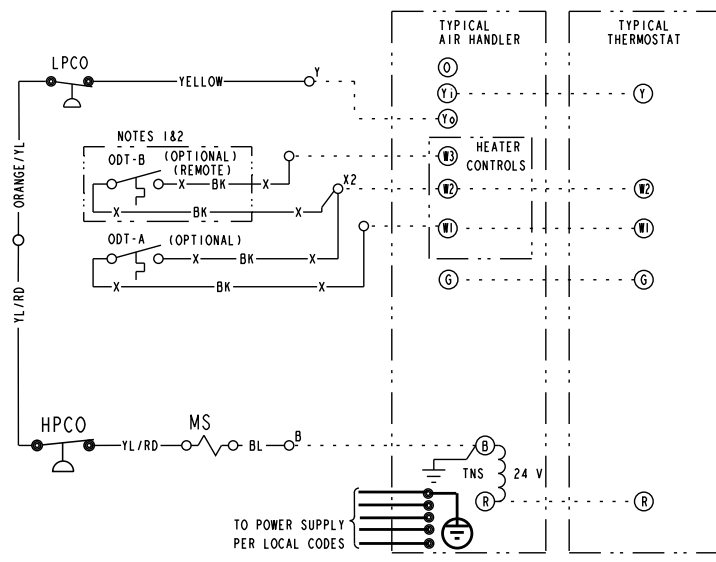
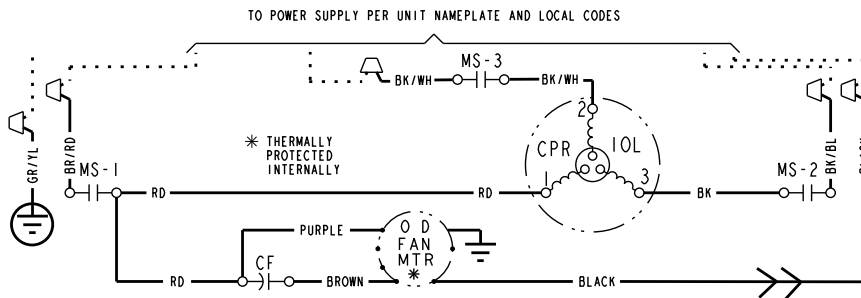
CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOFF SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OPT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOFF SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT
ACR	A/C RECTIFIER	R	OPT SHUNT RESISTOR

<p><b>⚠ WARNING</b></p> <p>HAZARDOUS VOLTAGE!</p> <p>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.</p> <p>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p>	<p><b>⚠ CAUTION</b></p> <p>USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.</p> <p>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p>
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# Electrical Data/4TTR6

## Schematic Diagrams

4TTA6036B5, 4TTA6042B5, 4TTA6048A5, 4TTA6060B5



### LEGEND-EQUIPMENT DIAGRAM

- 24 V. } FACTORY WIRING
- LINE V. }
- - - 24 V. } FIELD WIRING
- - - LINE V. }
- ⊥ GROUND
- JUNCTION
- △ WIRE NUT OR CONNECTOR
- ⊂ COIL
- ⊂ CAPACITOR
- ⊂ RELAY CONTACT (N.O.)
- ⊂ RELAY CONTACT (N.C.)
- ⊂ THERMISTOR
- ⊂ INTERNAL OVERLOAD PROTECTOR
- ⊂ PRESSURE ACTUATED SWITCH
- ⊂ TEMP. ACTUATED SWITCH
- ⊂ POL. PLUG FEMALE HOUSING (MALE TERM.)
- ⊂ POL. PLUG MALE HOUSING (FEMALE TERM.)
- ⊂ RESISTOR OR HEATING ELEMENT
- ⊂ MOTOR WINDING
- TERMINAL
- ⊂ SINGLE INLINE CONNECTION

#### NOTES:

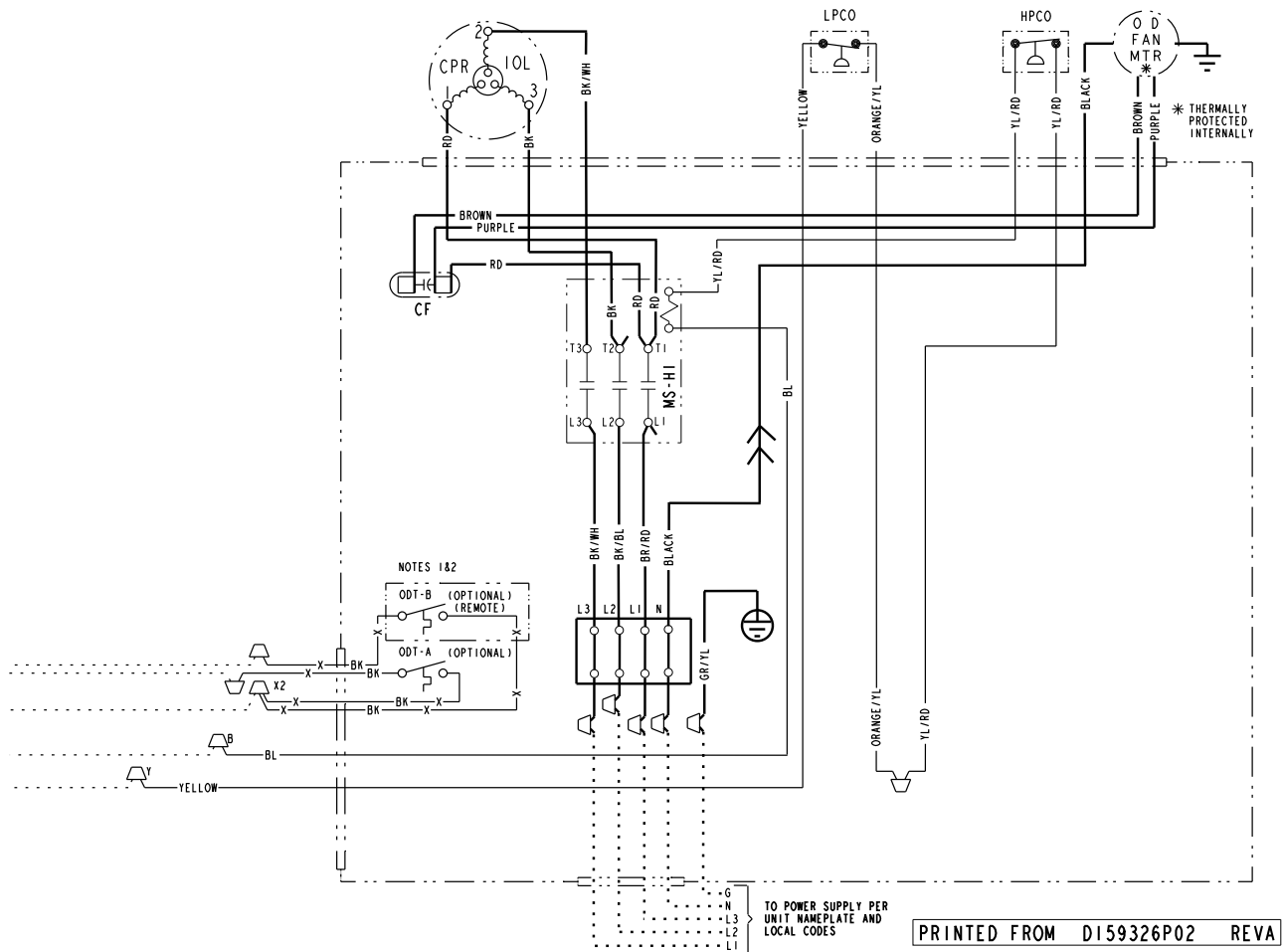
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

# Electrical Data/4TTR6

## Schematic Diagrams

4TTA6036B5, 4TTA6042B5, 4TTA6048A5, 4TTA6060B5



PRINTED FROM D159326P02 REVA

COLOR OF WIRE	
BK/BL	BLACK WIRE WITH BLUE MARKER
COLOR OF MARKER	
BK	BLACK
BL	BLUE
BR	BROWN
OR	ORANGE
RD	RED
WH	WHITE
YL	YELLOW
GR	GREEN
PR	PURPLE

CA	COOLING ANTICIPATOR
CBS	COIL BOTTOM SENSOR
CF	FAN CAPACITOR
CN	WIRE CONNECTOR
CPR	COMPRESSOR
CR	RUN CAPACITOR
CS	STARTING CAPACITOR
CSR	CAPACITOR SWITCHING RELAY
DFC	DEFROST CONTROL
F	INDOOR FAN RELAY
HA	HEATING ANTICIPATOR
HPCO	HIGH PRESSURE CUTOFF SW.
IOL	INTERNAL OVERLOAD PROTECTOR

LPCO	LOW PRESSURE CUTOFF SW.
MS	COMPRESSOR MOTOR CONTACTOR
ODA	OUTDOOR ANTICIPATOR
OF1	OUTDOOR FAN THERMOSTAT
ODS	OUTDOOR TEMPERATURE SENSOR
ODT	OUTDOOR THERMOSTAT
RHS	RESISTANCE HEAT SWITCH
SC	SWITCHOVER VALVE SOLENOID
SM	SYSTEM "ON-OFF" SWITCH
TDL	DISCHARGE LINE THERMOSTAT
TNS	TRANSFORMER
TS	HEATING-COOLING THERMOSTAT
TSH	HEATING THERMOSTAT

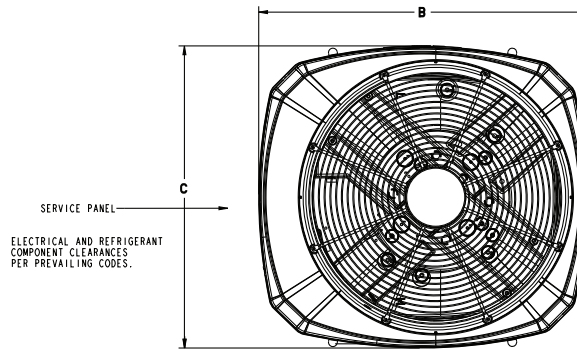
<p><b>⚠ WARNING</b></p> <p>HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p>	<p><b>⚠ CAUTION</b></p> <p>USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p>
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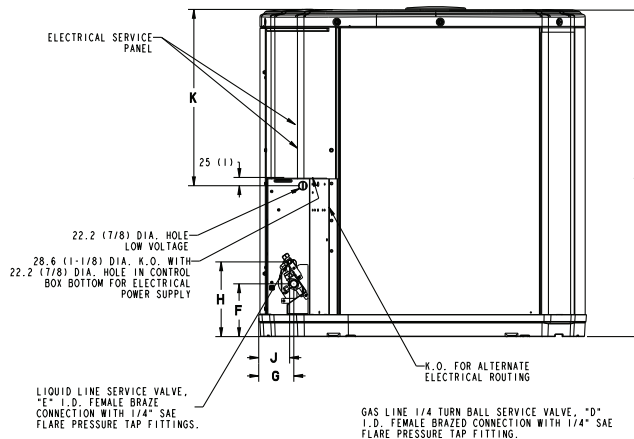
# Dimensions/4TTR6

## 4TTR6 Outline Drawing

Note: All dimensions are in MM (Inches).

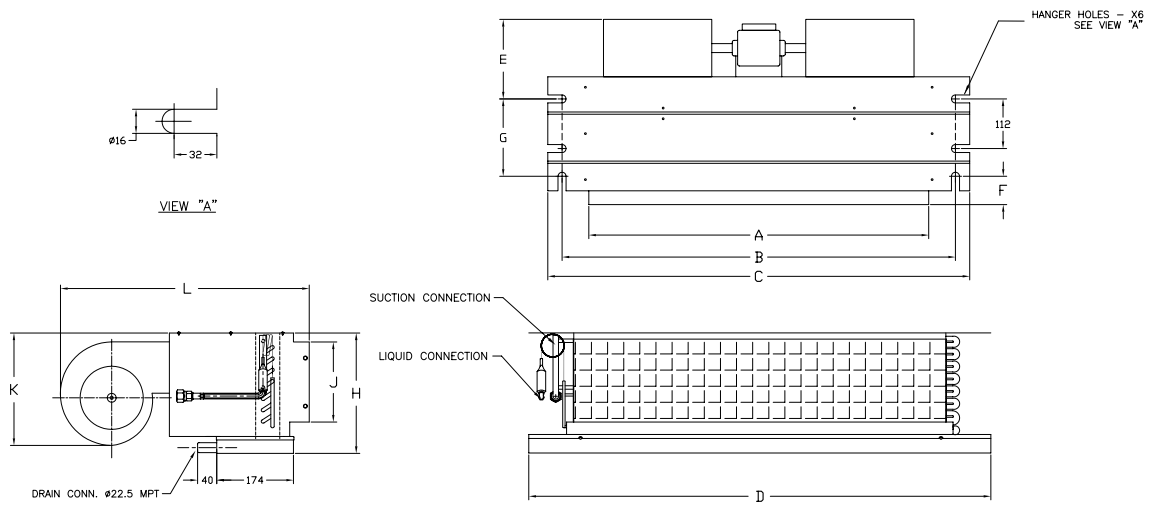


TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 1524 (5 FEET) ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT, AND SHOULD BE AT LEAST 305 (12") FROM WALL AND ALL SURROUNDING SHRUBBERY ON TWO SIDES. OTHER TWO SIDES UNRESTRICTED.



Model	Base	A	B	C	D	E	F	G	H	J	K
4TTR6018J	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4TTR6024J	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4TTR6030J	3	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
4TTR6036B	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TTR6042J	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)
4TTR6048J	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)
4TTR6060J	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)

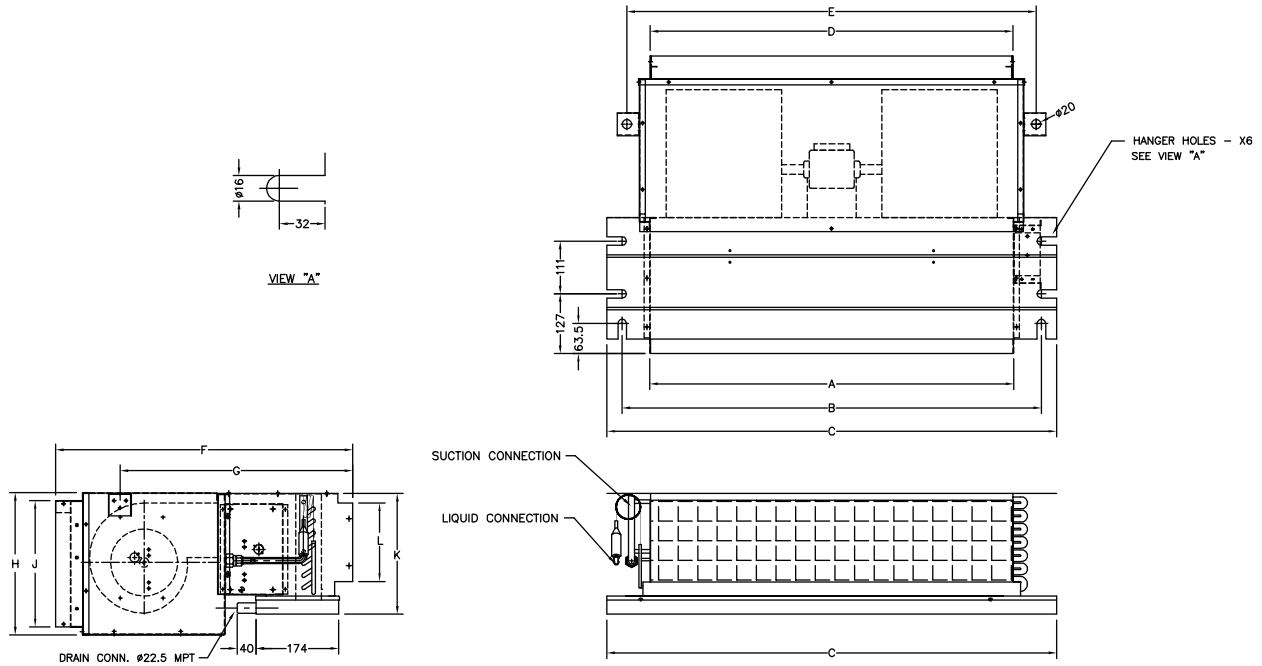
# Dimensional Data/MCD



Model	All External Dimensions are in mm.											Refrig Line Conn. Size.		Number Of	
	A	B	C	D	E	F	G	H	J	K	L	Liquid	Suction	Fan(s)	Motor(s)
MCD009AA5	794	845	883	946	250	35	152	260	193	228	445	1/4"(6.35)	1/2"(12.7)	2	1
MCD012AA5	794	845	883	946	250	35	152	260	193	228	445	3/8"(9.53)	5/8"(15.87)	2	1
MCD018AA5	972	1022	1061	1098	310	35	152	260	193	228	482	3/8"(9.53)	5/8"(15.87)	2	1
MCD024AA5	972	1022	1061	1098	360	35	152	260	193	325	520	3/8"(9.53)	5/8"(15.87)	2	1
MCD512DB/D1	764	882	946	946	274	64	181	258	165	252	496	1/4"(6.35)	1/2"(12.7)	2	1
MCD518DB/D1	764	882	946	946	274	64	181	258	165	252	496	1/4"(6.35)	1/2"(12.7)	2	1
MCD524DB/D1	764	882	946	946	274	64	181	258	165	252	510	3/8"(9.52)	5/8"(15.87)	2	1
MCD530DB/D1	916	1034	1098	1098	274	64	181	258	165	252	510	3/8"(9.52)	5/8"(15.87)	2	1
MCD536DB/D1	1069	1187	1251	1251	274	64	181	258	165	252	510	3/8"(9.52)	3/4"(19.05)	2	1

**Note :** From the experience of our Trane technician, based on the design condition, at velocity at supply air grille of 300 ft./min. for bedroom and 400 ft./min. for office (based on free face area), The length of the air duct should be less than 60 cm. for Model MCD009AA5-024AA5 and the length of duct should be more than 3 m. for Model MCD512D-536D.

# Dimensional Data/MCD



Model	All External Dimensions are in mm.											Refrig. Line Conn. Sizes		Number Of			
	A	B	C	D	E	F	G	H	J	K	L	Liquid	Suction	Fan(s)	Motor(s)		
MCD512DB/D1	764	882	946	779	857	625	490	300	266	258	165	1/4"(6.35)	1/2"(12.7)	2	1		
MCD518DB/D1	764	882	946	779	857	625	490	300	266	258	165	1/4"(6.35)	1/2"(12.7)	2	1		
MCD524DB/D1	764	882	946	779	857	625	490	300	266	258	165	3/8"(9.53)	5/8"(15.87)	2	1		
MCD530DB/D1	916	1034	1098	931	1009	625	490	300	266	258	165	3/8"(9.53)	5/8"(15.87)	2	1		
MCD536DB/D1	1069	1187	1251	1084	1162	625	490	300	266	258	165	3/8"(9.53)	3/4"(19.05)	2	1		
MCD048DB	916	1034	1098	907	1013	762	615	394	302	408	352	1/2"(12.7)	7/8"(22.23)	2	1		
MCD060DB	1069	1187	1251	1060	1166	762	615	394	302	408	352	1/2"(12.7)	7/8"(22.23)	2	1		
MCD030EB5	1069	1187	1251	1084	1162	675	540	348	272	258	165	3/8"(9.53)	3/4"(19.05)	2	1		
MCD036EB5	916	1034	1098	907	1013	762	615	394	302	408	352	3/8"(9.53)	3/4"(19.05)	2	1		
MCD042EB5	916	1034	1098	907	1013	762	615	394	302	408	352	3/8"(9.53)	7/8"(22.23)	2	1		
Model	All External Dimensions are in mm.											Refrig. Line Conn. Sizes (SWEAT TYPE)		Refrig. Line Conn. Sizes (FLARE TYPE)		Number Of	
	A	B	C	D	E	F	G	H	J	K	L	Liquid	Suction	Liquid	Suction	Fan(s)	Motor(s)
MCDA18D1	972	1022	1251	919	1077	538	440	304	221	258	193	-	-	3/8"(9.53)	5/8"(15.87)	2	1
MCDA24D1	972	1022	1251	919	1077	538	440	304	221	258	193	-	-	3/8"(9.53)	5/8"(15.87)	2	1
MCDA30D1	1069	1187	1251	1005	1166	724	577	394	302	258	165	-	-	3/8"(9.53)	3/4"(19.05)	2	1
MCDA36D1	916	1034	1098	851	1013	762	615	394	302	408	352	-	-	3/8"(9.53)	3/4"(19.05)	2	1
MCDB42D1	916	1034	1098	851	1013	762	615	394	302	408	352	3/8"(9.53)	7/8"(22.23)	-	-	2	1
MCDB48D1	1069	1187	1251	1005	1166	762	615	394	302	408	352	3/8"(9.53)	7/8"(22.23)	-	-	2	1
MCDB60D1	1069	1187	1251	1005	1166	762	615	441	347	408	352	3/8"(9.53)	7/8"(22.23)	-	-	2	1
MCDA18DB	972	1022	1251	919	1077	538	440	304	221	258	193	-	-	3/8"(9.53)	3/4"(19.05)	2	1
MCDA24DB	972	1022	1251	919	1077	538	440	304	221	258	193	-	-	3/8"(9.53)	3/4"(19.05)	2	1
MCDA30DB	1069	1187	1251	1005	1166	724	577	394	302	258	165	-	-	3/8"(9.53)	3/4"(19.05)	2	1
MCDA36DB	916	1034	1098	851	1013	762	615	394	302	408	352	-	-	3/8"(9.53)	7/8"(22.23)	2	1
MCDB42DB	916	1034	1098	851	1013	762	615	394	302	408	352	3/8"(9.53)	7/8"(22.23)	-	-	2	1
MCDB48DB	1069	1187	1251	1005	1166	762	615	394	302	408	352	3/8"(9.53)	7/8"(22.23)	-	-	2	1
MCDB60DB	1069	1187	1251	1005	1166	762	615	394	302	408	352	3/8"(9.53)	7/8"(22.23)	-	-	2	1

Note : From the experience of our Trane technician, based on the design condition, at velocity at supply air grille of 300 ft./min. for bedroom and 400 ft./min. for office (based on free face area), The length of the air duct should be less than 60 cm. for Model MCD030EB5-042EB5 and the length of duct should be more than 3 m. for Model MCD512D-060D.



# Mechanical Specification

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## **General**

The 4TTR6 is fully charged from the factory for up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 125°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

## **Casing**

Unit casing is constructed of heavy gauge, G90 galvanized steel and painted with a weather-resistant powder paint on all louvers, panels, prepaint on all other panels. Corrosion and weather-proof CMBP-G30 DuraTuff™ base.

## **Refrigerant Controls**

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

## **Compressor**

The Climatuff® compressor features internal over temperature and pressure protection and total dipped hermetic motor. Other features include: centrifugal oil pump and low vibration and noise.

## **Condenser Coil**

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

## **Low Ambient Cooling**

As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30° F.

## **Accessories**

Thermostats — Cooling only and heat/cooling (manual and automatic change-over). Sub-base to match thermostat and locking thermostat cover.



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