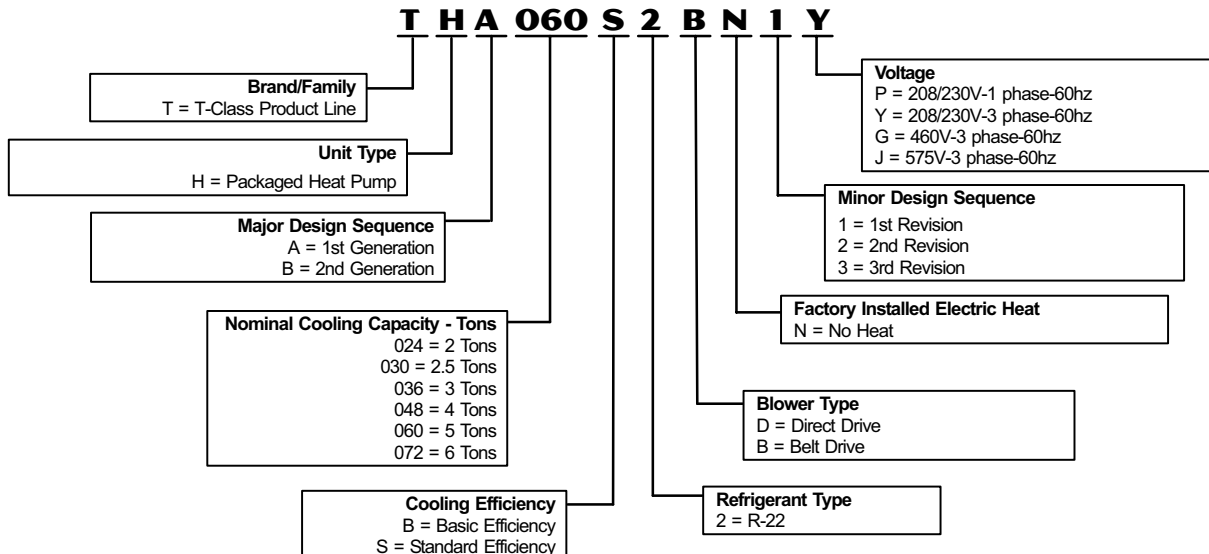




**3 to 6 Tons**  
**Net Cooling Capacity - 35,600 to 71,000 Btuh**  
**Net Heating Capacity - 34,200 to 73,000 Btuh**  
**Optional Electric Heat - 7.5 to 30 kW**

**MODEL NUMBER IDENTIFICATION**



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## FEATURES AND BENEFITS

### APPROVALS

ETL and CSA listed.

Efficiency rating verified by CSA.

Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes.

2 thru 5 ton models are certified in accordance with the USE certification program, which is based on ARI Standard 210/240-2005.

6 ton models are certified in accordance with the ULE certification program, which is based on ARI Standard 340/360-2004.

Standard efficiency models are ASHRAE 90.1 compliant

ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment. Standard efficiency models are ENERGY STAR® certified.

ISO 9001 Registered Manufacturing Quality System.

### WARRANTY

Limited five years on compressors.

Limited one year all other covered components.

### CABINET

#### 1 Construction

Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation.

Base rails have rigging holes. Three sides of the base rail have fork slots.

Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building.

#### Air-Flow Choice

Units are shipped in down-flow (vertical) configuration, can be field converted to horizontal air flow configuration without the need of a kit.

#### 2 Power Entry

Electrical lines can be brought through the unit base or through horizontal access knock-outs.

#### 3 Exterior Panels

Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.

#### 4 Insulation

All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation.

Unit base is fully insulated. The insulation also serves as an air seal to the roof curb, eliminating the need to add a seal during installation.

#### Access Panels

Access panels are provided for the economizer/filter section, heating/blower section, and the compressor/controls section.

### OPTIONS/ACCESSORIES

#### Factory Installed

##### Corrosion Protection

A completely flexible immersed coating with an electrodeposited dry film process. (AST ElectroFin E-Coat) Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing, ASTM 1153 Standard Specification for Methyl Isobutyl Ketone.

#### 5 Hinged Access Panels

Large access panels are hinged and have quarter-turn latches for quick and easy access to maintenance areas (economizer / filter, compressor / controls, heating / blower).

#### Field Installed

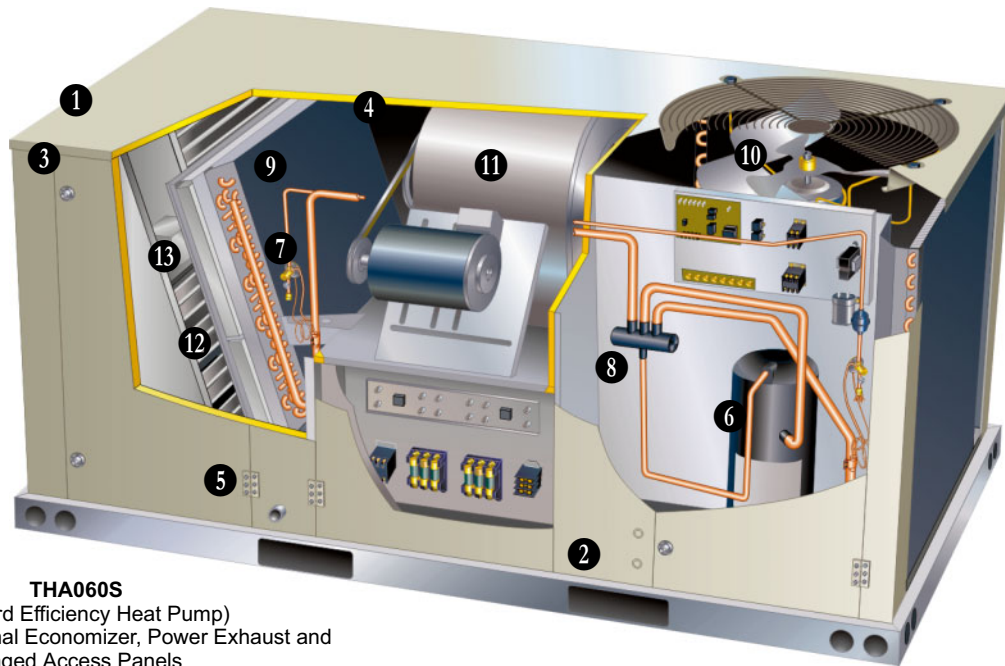
##### Coil Guards

Painted, galvanized steel wire guards to protect outdoor coil. Not used with Hail Guards.

##### Hail Guards

Constructed of heavy gauge steel, painted to match cabinet, helps protect outdoor coils from hail damage. Not used with Coil Guards.

## FEATURES AND BENEFITS



### THA060S

(Standard Efficiency Heat Pump)

Shown With Optional Economizer, Power Exhaust and Hinged Access Panels

### COOLING/HEATING SYSTEM

Designed to maximize sensible and latent cooling performance at design conditions.

Two efficiency levels provide design flexibility.

System can operate from 30°F to 125°F without any additional controls.

#### 6 Compressor

Resiliently mounted on rubber grommets for quiet operation.

Scroll compressors for high performance, reliability and quiet operation.

#### Compressor Crankcase Heater

Protects against refrigerant migration that can occur during low ambient operation.

#### 7 Check/Thermal Expansion Valves

Assures optimal performance throughout the application range.

Removable element head.

#### 8 Reversing Valves

4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.

#### Filter/Drier

High capacity filter/drier protects the system from dirt and moisture.

#### Freezestat

Protects the evaporator coil from damaging ice build-up due to conditions such as low/no air flow, or low refrigerant charge.

#### 9 Coil Construction

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer. Factory leak tested.

#### Indoor Coil

Cross row circuiting with rifled copper tubing optimizes both sensible and latent cooling capacity.

#### Outdoor Coil

Two independent formed coils allow separation for cleaning.

#### Condensate Drain Pan

Plastic pan, sloped to meet drainage requirements of ASHRAE 62.1.

Side or bottom drain connections. Reversible to allow connection at back of unit.

#### 10 Outdoor Coil Fan Motor

Thermal overload protected, totally enclosed, permanently lubricated sleeve (024, 030, 036 and 048 models) or ball bearings (060 and 072 models), shaft up, wire basket mount.

#### Outdoor Coil Fan

PVC coated fan guard furnished.

### OPTIONS/ACCESSORIES

#### Field Installed

#### Condensate Drain Trap

Field installed only.

Available in copper or PVC.

#### High Pressure Switch

Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation.

#### Low Ambient Kit

Cycles the outdoor fan while allowing compressor operation in the cooling cycle. This intermittent fan operation allows the system to operate without icing the evaporator coil and losing capacity. Designed for use in ambient temperatures no lower than 0°F.

### REQUIRED SELECTIONS

#### Cooling Capacity

Specify nominal cooling capacity of the unit.

#### Cooling Efficiency

Specify either standard or basic efficiency.

## FEATURES AND BENEFITS

### CONTROLS

#### UNIT CONTROL

All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection.

**Heat/Cool Staging** - Capable of up to 2 heat / 2 cool staging with a third party DDC control system or thermostat.

**Low Voltage Terminal Block** - Provides screw terminal connections for thermostat or controller wiring.

**Night Setback Mode** - Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only.

#### OPTIONS / ACCESSORIES

##### Field Installed

##### Dirty Filter Switch

Senses static pressure increase indicating dirty filter condition.

##### Smoke Detector

Photoelectric type, installed in return air section

##### L Connection® Network

Complete building automation control system for single or multi-zone applications. Options include local interface, software for local or remote communication, and hardware for networking other control functions. See L Connection Network Engineering Handbook Bulletin for details.

##### Thermostats

Control system and thermostat options. Aftermarket unit controller options. See See Page NO TAG.

### 11 BLOWER

A wide selection of supply air blower options are available to meet a variety of air flow requirements.

#### Motor

Overload protected, equipped with ball bearings (belt drive) or sleeve bearings (direct drive).

Direct drive motors are offered on 024, 030, 036, 048 and 060B models.

Belt drive motors are offered on all models and are available in several different sizes to maximize air performance.

#### Supply Air Blower

Forward curved blades, blower wheel is statically and dynamically balanced.

All belt drive motors have adjustable pulley for speed change.

#### Ordering Information

Specify direct drive or belt drive motor  
For belt drive, specify motor horsepower and drive kit number when base unit is ordered.

### REQUIRED SELECTIONS

#### Supply Air Blower

Order one, belt drive or direct drive (See Blower Data Table for specifications).

Order one drive kit, belt drive only, see Drive Kit Specifications Table.

### INDOOR AIR QUALITY

#### Air Filters

Disposable 2 inch filters furnished as standard.

### OPTIONS/ACCESSORIES

#### Field Installed

##### Indoor Air Quality (CO<sub>2</sub>) Sensor

Monitors CO<sub>2</sub> levels adjusts economizer dampers as needed for Demand Control Ventilation.

### ELECTRICAL

### REQUIRED SELECTIONS

#### Voltage Choice

Specify when ordering base unit.

### OPTIONS/ACCESSORIES

#### Field Installed

##### Electric Heat

Helix wound nichrome elements, individual element limit controls, wiring harness. Unit Fuse Block must be ordered extra. See Electrical/Electric Heat tables for ordering information, Pages 31-34.

##### GFI Service Outlets (2)

115v ground fault circuit interrupter (GFCI) type.

##### Disconnect Switch up to 150 Amp

Accessible from outside of unit, spring loaded weatherproof cover furnished. Main power to the unit is field connected to the disconnect which allows all power to be shut off for service. See Electrical/Electric Heat tables for ordering information, Pages 31-34.

### SERVICEABILITY

Designed to streamline general maintenance and decrease troubleshooting time.

#### Marked & Color-Coded Wiring

All electrical wiring is color-coded and marked to identify which components it is connecting.

#### Electrical Plugs

Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation.

#### Blower Access

Supply air blower parts are located near the access door for easy servicing and adjustment.

#### Thermal Expansion Valves

Thermal expansion valves are located near the perimeter of the unit for easier access.

Removable element head allows change out of element and bulb without removing the TXV.

#### Coil Cleaning

Independently formed condenser coils allow separation for easier cleaning.

#### Compressor Compartment

Compressor is located near the perimeter of the unit for easier access. Compressor is isolated from the condenser air flow allowing system operation checks to be done without changing the air flow across the outdoor coils.

### **ECONOMIZER/OUTDOOR AIR/EXHAUST OPTIONS**

#### **Factory or Field Installed**

#### **12 Economizer, Down-Flow**

Parallel gear-driven action return air and outdoor air dampers, plug-in connections to unit, nylon bearings, neoprene seals, 24-volt, fully-modulating, spring return motor, adjustable minimum damper position. Economizer includes barometric relief dampers.

Barometric Relief Dampers allow relief of excess air, aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished.

Outdoor Air Hoods are included when economizer is factory installed and are furnished with economizer when ordered for field installation.

Choice of single (factory installed) or differential (optional) enthalpy or temperature economizer control is available.

Horizontal conversion kit available for field installation.

#### **Single Enthalpy Control**

Outdoor air enthalpy sensor enables economizer if the outdoor enthalpy is less than the setpoint of the board. Furnished with Economizer.

#### **Field Installed**

#### **Outdoor Air Damper - Manual**

Two sliding dampers provide 0 to 35% outdoor air, installs internal to unit. Includes Outdoor Air Hood.

#### **Outdoor Air Damper Motorized Kit**

Used to convert Manual Outdoor Air Dampers to motorized dampers. Kit includes linked mechanical dampers and spring return damper motor with plug-in connection.

#### **Differential Enthalpy Control**

An optional, return air, solid-state enthalpy sensor can be ordered extra for field installation. Allows the economizer control board to select between outdoor air or return air, whichever has lower enthalpy. Field installed.

#### **Economizer Temperature Control - Single**

An optional, solid-state temperature sensor can be ordered extra for field installation. Enables the economizer when the outdoor air temperature is below the configured setpoint.

#### **Economizer Temperature Control - Differential**

Order two single, temperature control kits. One is field installed in the return air section, the other in the outdoor air section. Allows the economizer control board to select between outdoor air or return air, whichever has lower temperature.

#### **Horizontal Conversion Kit**

Insulated panel covers the bottom return air opening on the unit base to convert down-flow economizer to horizontal air flow.

#### **Outdoor Air Hoods**

Must be ordered extra for field installed Economizer.

Includes outdoor air and barometric relief damper hoods.

#### **13 Power Exhaust Fan**

Installs internal to unit for down-flow applications only with economizer option. Provides exhaust air pressure relief. Interlocked to run when supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected. Requires Economizer and Outdoor Air Hood (ordered separately). Fan is 16 in. diameter with 4 fan blades (T1PWRE10A) or 20 in. diameter with 5 blades (T1PWRE10N). Both include a 3/4 hp motor.

NOTE - Not available for 024 and 030 models.

### **CEILING DIFFUSERS**

#### **Ceiling Diffusers (Flush and Step-Down)**

Aluminum grilles, large center grille, insulated diffuser box with flanges, hanging rings furnished, interior transition (even air flow), internally sealed (prevents recirculation), adapts to T-bar ceiling grids or plaster ceilings.

#### **Transitions (Supply and Return)**

Used with diffusers, installs in roof curb, galvanized steel construction, flanges furnished for duct connection to diffusers, fully insulated.

### **ROOF CURB**

#### **Roof Curb, Down-Flow**

Nailer strip furnished, mates to unit, US National Roofing Contractors Approved, shipped knocked down. Available in 8, 14, 18, and 24 inch heights.

Standard roof curb corners fasten together with furnished hardware.

Hinged curb corners fasten together with furnished hinge pins.

Cliplock curbs use interlocking tabs to fasten together. No tools required.

## OPTIONS / ACCESSORIES

Item	Catalog No.	024	030	036	048	060B	060S	072
<b>COOLING/HEATING SYSTEM</b>								
Condensate Drain Trap	PVC - LTACDKP03/07	<b>37K69</b>	x	x	x	x	x	x
	Copper - LTACDKC03/07	<b>45K67</b>	x	x	x	x	x	x
Low Ambient Kit	T1SNSR13AN1	<b>95M06</b>	x	x	x	x	x	x
Efficiency	Standard		○	○	○	○	○	○
		Basic			○	○	○	○
High Pressure Switch	T1SNSR14AN1	<b>20W89</b>	x	x	x	x	x	x
Refrigerant Type	R-22		○	○	○	○	○	○
<b>BLOWER - SUPPLY AIR</b>								
Motors	Direct Drive - 0.25 hp		○	○				
	Direct Drive - 0.5 hp				○	○		
	Direct Drive - 0.75 hp					○		
	Belt Drive - 1.5 hp Standard Efficiency				○	○	○	○
	<sup>2</sup> Belt Drive - 2 hp Standard Efficiency				○	○	○	○
Drive Kits See Blower Data Tables for selection	Drive Kit # 1 - T1DRKT001-1 - 673-1010 rpm	<b>20W81</b>			⊗			
	Drive Kit # 2 - T1DRKT002-1 - 745-1117 rpm	<b>20W82</b>				⊗		
	Drive Kit # 3 - T1DRKT003-1 - 833-1250 rpm	<b>20W83</b>					⊗	
	Drive Kit # 4 - T1DRKT004-1 - 968-1340 rpm	<b>20W84</b>						⊗
	Drive Kit # 5 - T1DRKT005-1 - 897-1346 rpm	<b>20W85</b>			⊗			
	Drive Kit # 6 - T1DRKT006-1 - 1071-1429 rpm	<b>20W86</b>				⊗		
	Drive Kit # 7 - T1DRKT007-1 - 1212-1548 rpm	<b>20W87</b>					⊗	⊗
	Drive Kit # 8 - T1DRKT008-1 - 1193-1591 rpm	<b>20W88</b>						
<b>CABINET</b>								
Coil Guards	T1GARD20A-1	<b>17W87</b>	x	x	x	x		
	T1GARD20N-1	<b>17W88</b>					x	x
Corrosion Protection			○	○	○	○	○	○
Hail Guards	T1GARD10A-1	<b>17W89</b>	x	x	x	x		
	T1GARD10N-1	<b>17W90</b>					x	x
Hinged Access Panels			○	○	○	○	○	○
<b>CONTROLS</b>								
Dirty Filter Switch	COSWCH00AE-1	<b>30K48</b>	x	x	x	x	x	x
Smoke Detector - Return	T1SNSR41AN1	<b>94M18</b>	x	x	x	x	x	x
<b>INDOOR AIR QUALITY</b>								
<b>Indoor Air Quality (CO<sub>2</sub>) Sensors</b>								
Sensor - white case CO <sub>2</sub> display	C0SNSR50AS1L	<b>77N39</b>	x	x	x	x	x	x
Sensor - duct-mount, black case, no display	C0SNSR53AE1L	<b>87N54</b>	x	x	x	x	x	x
CO <sub>2</sub> Sensor Duct Mounting Kit	C0MISC19AE1-	<b>85L43</b>	x	x	x	x	x	x

**NOTE** - The catalog numbers that appear here are for ordering field installed accessories only.

⊗ - Field Installed or Configure to Order (factory installed)

○ - Configure to Order (Factory Installed)

<sup>1</sup> 036B models only

**X** - Field Installed

<sup>2</sup> 2 hp blower motor is not available for 208/230V-1ph applications.

## OPTIONS / ACCESSORIES

Item	Catalog No.	024	030	036	048	060B	060S	072
<b>ECONOMIZER</b>								
<b>Economizer</b>								
Economizer, Single Enthalpy Control Includes Outdoor Air Hood and Barometric Relief Dampers	T1ECON30A-1	36W96	⊗	⊗	⊗	⊗	⊗	
	T1ECON30N-1	36W97					⊗	⊗
Horizontal Economizer Conversion Kit	T1HECK00AN1	17W45	x	x	x	x	x	x
<b>Economizer Controls</b>								
Differential Enthalpy Sensor	T1SNSR60AN1	17W71	x	x	x	x	x	x
Single Temperature Control	TASEK10/15	76M37	x	x	x	x	x	x
Differential Temperature Control	Order 2 - TASEK10/15	76M37	x	x	x	x	x	x
<b>ELECTRICAL</b>								
Disconnect	See Electrical/Electric Heat Tables for selection		x	x	x	x	x	x
Voltage 60 hz	208/230V - 1 phase		○	○	○	○	○	○
	208/230V - 3 phase				○	○	○	○
	460V - 3 phase				○	○	○	○
	575V - 3 phase				○	○	○	○
GFI Service Outlets	LTAGFIK10/15	74M70	x	x	x	x	x	x
<b>ELECTRIC HEAT</b>								
7.5 kW	208/240V-1ph - T1EH0075AN1P	14W32	⊗	⊗	⊗	⊗	⊗	⊗
	208/240V-3ph - T1EH0075AN1Y	14W35			⊗	⊗	⊗	⊗
	460V-3ph - T1EH0075AN1G	14W39			⊗	⊗	⊗	⊗
	575V-3ph - T1EH0075AN1J	14W43			⊗	⊗	⊗	⊗
10 kW	208/240V-1ph - T1EH0100A1P	30W26	⊗	⊗				
15 kW	208/240V-1ph - T1EH0150AN1P	14W33			⊗	⊗	⊗	⊗
	208/240V-3ph - T1EH0150AN1Y	14W36			⊗	⊗	⊗	⊗
	460V-3ph - T1EH0150AN1G	14W40			⊗	⊗	⊗	⊗
	575V-3ph - T1EH0150AN1J	14W44			⊗	⊗	⊗	⊗
22.5 kW	208/240V-1ph - T1EH0225AN1P	14W34				⊗	⊗	
	208/240V-3ph - T1EH0225AN1Y	14W37				⊗	⊗	⊗
	460V-3ph - T1EH0225AN1G	14W41				⊗	⊗	⊗
	575V-3ph - T1EH0225AN1J	14W45				⊗	⊗	⊗
30 kW	208/240V-3ph - T1EH0300N-1Y	14W38						⊗
	460V-3ph - T1EH0300N-1G	14W42						⊗
	575V-3ph - T1EH0300N-1J	14W46						⊗
<b>ELECTRIC HEAT ACCESSORIES/OPTIONS</b> - See Electrical/Electric Heat Tables for selection								
		Unit Fuse Block	⊗	⊗	⊗	⊗	⊗	⊗

**NOTE** - The catalog numbers that appear here are for ordering field installed accessories only.

⊗ - Field Installed or Configure to Order (factory installed)

○ - Configure to Order (Factory Installed)

x - Field Installed.

## OPTIONS / ACCESSORIES

Item	Catalog No.	024	030	036	048	060B	060S	072
<b>OUTDOOR AIR</b>								
<b>Outdoor Air Dampers</b>								
Damper Section - Manual, Includes Outdoor Air Hood	T1DAMP11A-1	16W88	x	x	x	x		
	T1DAMP11N-1	16W91					x	x
Damper Motorized Kit Order Manual Outdoor Air Damper Separately	T1DAMP21AN1	16W92	x	x	x	x	x	x
<b>POWER EXHAUST FAN</b>								
Standard Static	208/230V-1 or 3 ph - T1PWRE10A-1P	17W39			x	x	x	
	460V-3ph - T1PWRE10A-1G	17W40			x	x	x	
	575V-3ph - T1PWRE10A-1J	17W41			x	x	x	
	208/230V-1 or 3 ph - T1PWRE10N-1P	17W42						x
	460V-3ph - T1PWRE10N-1G	17W43						x
	575V-3ph - T1PWRE10N-1J	17W44						x
<b>CEILING DIFFUSERS</b>								
Step-Down - Order one	RTD9-65-R	27G87	x	x	x	x	x	
	RTD11-95	29G04						x
	(Canada Only) RTD11-95S	13K61						x
Flush - Order one	FD9-65-R	27G86	x	x	x	x	x	
	FD11-95	29G08						x
	(Canada Only) FD11-95S	13K56						x
Transitions (Supply and Return) Order one	T1TRAN10AN1	17W53	x	x	x	x	x	
	T1TRAN20N-1	17W54						x
<b>ROOF CURBS - DOWN-FLOW</b>								
<b>Cliplock</b>								
8 in. height	T1CURB23AN1	16W93	x	x	x	x	x	x
14 in. height	T1CURB20AN1	16W94	x	x	x	x	x	x
18 in. height	T1CURB21AN1	16W95	x	x	x	x	x	x
24 in. height	T1CURB22AN1	16W96	x	x	x	x	x	x
<b>Standard</b>								
14 in. height	T1CURB10AN1	13W27	x	x	x	x	x	x
<b>Hinged</b>								
8 in. height	T1CURB30AN1	17W46	x	x	x	x	x	x
18 in. height	T1CURB32AN1	17W47	x	x	x	x	x	x
24 in. height	T1CURB33AN1	17W48	x	x	x	x	x	x

**NOTE** - The catalog numbers that appear here are for ordering field installed accessories only.

⊗ - Field Installed or Configure to Order (factory installed)

○ - Configure to Order (Factory Installed)

**X** - Field Installed.



**SPECIFICATIONS - DIRECT DRIVE BLOWER**
**2 - 2.5 TON**

General Data		Nominal Tonnage	2 Ton	2.5 Ton
		Model No.	THA024S2D	THA030S2D
		Efficiency Type	Standard	Standard
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh		25,000	30,000
	<sup>1</sup> Net Cooling Capacity - Btuh		24,000	28,600
	ARI Rated Air Flow - cfm		800	980
	Total Unit Power - kW		2.0	2.4
	<sup>1</sup> SEER (Btuh/Watt)		13.0	13.0
	<sup>1</sup> EER (Btuh/Watt)		12	11.8
<b>Refrigerant</b>	Type		R-22	R-22
	Charge Furnished		12 lbs. 0 oz.	12 lbs. 0 oz.
<b>Heating Performance</b>	Total High Heating Capacity - Btuh		25,600	30,000
	Total Unit Power - kW		2.1	2.4
	<sup>1</sup> COP		3.7	3.7
	<sup>1</sup> HSPF - Region IV (Region V)		7.7(6.7)	7.7(6.7)
	Total Low Heating Capacity - Btuh		15,000	17,800
	Total Unit Power - kW		1.9	2.2
	COP		2.3	2.4
<b>Electric Heating Options</b>		See Electrical/Electric Heat Tables Pages 31-34		
<b>Compressor Type (no.)</b>		Scroll (1)		Scroll (1)
<b>Outdoor Coil</b>	Net face area - sq. ft.		15.6	15.6
	Tube diameter - in.		3/8	3/8
	Number of rows		2.0	2.0
	Fins / inch		20	20
<b>Outdoor Coil Fan</b>	Motor HP		1/4	1/4
	Motor rpm		825	825
	Total motor watts		250	250
	Diameter - in. / No. of blades		24 - 3	24 - 3
	Total air volume - cfm		3300	3300
<b>Indoor Coil</b>	Net face area - sq. ft.		7.78	7.78
	Tube diameter - in.		3/8	3/8
	Number of rows		3	4
	Fins / inch		14	14
	Drain Connection (no. and size) - in.		(1) 3/4 NPT	(1) 3/4 NPT
	Expansion device type		Balanced Port Thermostatic Expansion Valve, removeable power head	
<b>Indoor Blower</b>	Nominal Motor HP		.25	.25
	Wheel nom. diameter x width - in.		10 x 10	10 x 10
<b>Filters</b>	Type	Disposable		
	Number and size - in.	(4) 16 x 20 x 2		
<b>Electrical Characteristics - 60 hz</b>		208/230V - 1 phase		

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> Certified in accordance with the USE certification program, which is based on ARI Standard 210/240.

**Cooling Ratings** - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

**High Temperature Heating Ratings** - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

**Low Temperature Heating Ratings** - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

<sup>2</sup> Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

**SPECIFICATIONS - DIRECT DRIVE BLOWER**
**3 - 5 TON**

General Data	Nominal Tonnage Model No. Efficiency Type	3 Ton		4 Ton		5 Ton
		THA036B2D	THA036S2D	THA048B2D	THA048S2D	THA060B2D
		Basic	Standard	Basic	Standard	Basic
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh	37,400	37,000	49,100	50,000	63,400
	<sup>1</sup> Net Cooling Capacity - Btuh	36,000	35,600	47,000	48,000	60,000
	ARI Rated Air Flow - cfm	1,200	1,160	1,500	1,750	2,000
	Total Unit Power - kW	3.6	3.0	5	4.3	6.7
	<sup>1</sup> SEER (Btuh/Watt)	11.0	13.5	11.0	13.0	10.0
	<sup>1</sup> EER (Btuh/Watt)	10.0	12	9.6	11.2	9.4
<b>Refrigerant</b>	Type	R-22	R-22	R-22	R-22	R-22
	Charge Furnished	7 lbs. 8 oz.	13 lbs. 12 oz.	7 lbs. 12 oz.	13 lbs. 0 oz.	10 lbs. 12 oz.
<b>Heating Performance</b>	Total High Heating Capacity - Btuh	35,000	34,200	47,000	44,500	62,000
	Total Unit Power - kW	3.1	2.9	4.3	3.6	6.1
	<sup>1</sup> COP	3.3	3.5	3.2	3.6	3.0
	<sup>1</sup> HSPF - Region IV (Region V)	7.2(6.3)	7.7(6.7)	7.2(6.2)	7.7(6.7)	6.6(6.0)
	Total Low Heating Capacity - Btuh	21,000	20,800	27,000	28,400	40,000
	Total Unit Power - kW	2.8	2.7	3.6	3.5	5.6
	COP	2.2	2.3	2.2	2.4	2.1
<b>Electric Heating Options</b>	See Electrical/Electric Heat Tables Pages Pages 31-34					
<b>Compressor Type (no.)</b>		Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)
<b>Outdoor Coil</b>	Net face area - sq. ft.	15.6	15.6	15.6	15.6	15.6
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8
	Number of rows	1.0	2.0	1.24	2.0	2.0
	Fins / inch	20	20	20	20	20
<b>Outdoor Coil Fan</b>	Motor HP	1/4	1/4	1/4	1/4	1/3
	Motor rpm	825	825	825	825	1075
	Total motor watts	250	250	250	250	390
	Diameter - in. / No. of blades	24 - 3	24 - 3	24 - 3	24 - 3	24 - 3
	Total air volume - cfm	3700	3300	3600	3300	4300
<b>Indoor Coil</b>	Net face area - sq. ft.	7.78	7.78	7.78	7.78	7.78
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8
	Number of rows	2	3	2	4	2
	Fins / inch	14	14	14	14	14
	Drain Connection (no. and size) - in.	(1) 3/4 NPT	(1) 3/4 NPT	(1) 3/4 NPT	(1) 3/4 NPT	(1) 3/4 NPT
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removeable power head				
<b>Indoor Blower</b>	Nominal Motor HP	.5	.5	.5	.5	.75
	Wheel nom. diameter x width - in.	10 x 10	10 x 10	10 x 10	10 x 10	11 x 10
<b>Filters</b>	Type	Disposable				
	Number and size - in.	(4) 16 x 20 x 2				
<b>Electrical Characteristics - 60 hz</b>		208/230V & 460V 3 phase	208/230V 1 phase  208/230V, 460V & 575V 3 phase	208/230V & 460V 3 phase	208/230V 1 phase  208/230V, 460V & 575V 3 phase	208/230V & 460V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> Certified in accordance with the USE certification program, which is based on ARI Standard 210/240.

**Cooling Ratings** - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

**High Temperature Heating Ratings** - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

**Low Temperature Heating Ratings** - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

<sup>2</sup> Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

**SPECIFICATIONS - BELT DRIVE BLOWER**

**3 - 4 TON**

General Data	Nominal Tonnage Model No. Efficiency Type	3 Ton		4 Ton	
		THA036B2B	THA036S2B	THA048B2B	THA048S2B
		Basic	Standard	Basic	Standard
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh	37,400	37,000	49,100	50,000
	<sup>1</sup> Net Cooling Capacity - Btuh	36,000	35,600	47,000	48,000
	ARI Rated Air Flow - cfm	1,200	1,160	1,500	1,750
	Total Unit Power - kW	3.6	3.0	5	4.3
	<sup>1</sup> SEER (Btuh/Watt)	11.0	13.5	11.0	13.0
	<sup>1</sup> EER (Btuh/Watt)	10.0	12.0	9.6	11.2
<b>Refrigerant</b>	Type	R-22	R-22	R-22	R-22
	Charge Furnished	7 lbs. 8 oz.	13 lbs. 12 oz.	7 lbs. 12 oz.	13 lbs. 0 oz.
<b>Heating Performance</b>	Total High Heating Capacity - Btuh	35,000	34,200	47,000	44,500
	Total Unit Power - kW	3.1	2.9	4.3	3.6
	1 COP	3.3	3.5	3.2	3.6
	HSPF - Region IV (Region V)	7.2(6.3)	7.7(6.7)	7.2(6.2)	7.7(6.7)
	Total Low Heating Capacity - Btuh	21,000	20,800	27,000	28,400
	Total Unit Power - kW	2.8	2.7	3.6	3.5
	COP	2.2	2.3	2.2	2.4
<b>Electric Heating Options</b>		See Electrical/Electric Heat Tables Pages 31-34			
<b>Compressor Type (no.)</b>		Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)
<b>Outdoor Coil</b>	Net face area - sq. ft.	15.6	15.6	15.6	15.6
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Number of rows	1.0	2.0	1.24	2.0
	Fins / inch	20	20	20	20
<b>Outdoor Coil Fan</b>	Motor HP	1/4	1/4	1/4	1/4
	Motor rpm	825	825	825	825
	Total motor watts	250	250	250	250
	Diameter - in. / No. of blades	24 - 3	24 - 3	24 - 3	24 - 3
	Total air volume - cfm	3700	3300	3600	3300
<b>Indoor Coil</b>	Net face area - sq. ft.	7.78	7.78	7.78	7.78
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Number of rows	2	3	2	4
	Fins / inch	14	14	14	14
	Drain Connection (no. and size) - in.	(1) 3/4 NPT	(1) 3/4 NPT	(1) 3/4 NPT	
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removeable power head			
<sup>3</sup> <b>Indoor Blower &amp; Drive Selection</b>	Nominal Motor HP	1.5 hp, <sup>4</sup> 2 hp			
	Maximum Usable Motor HP	1.72 hp, 2.3 hp			
	Wheel nom. diameter x width - in.	10 x 10			
	Available Drive Kits	Drive Kit #1 - 673 - 1010 rpm Drive Kit #5 - 897 - 1346 rpm	Drive Kit #2 - 745 - 1117 rpm Drive Kit #6 - 1071 - 1429 rpm		
<b>Filters</b>	Type	Disposable			
	Number and size - in.	(4) 16 x 20 x 2			
<b>Electrical Characteristics - 60 hz</b>		208/230V & 460V 3 phase	208/230V 1 phase  208/230V, 460V & 575V 3 phase	208/230V & 460V 3 phase	208/230V 1 phase  208/230V, 460V & 575V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> Certified in accordance with the USE certification program, which is based on ARI Standard 210/240.

**Cooling Ratings** - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

**High Temperature Heating Ratings** - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

**Low Temperature Heating Ratings** - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

<sup>2</sup> Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

<sup>4</sup> 2 hp blower motor is not available for 208/230V-1phase applications.

**SPECIFICATIONS - BELT DRIVE BLOWER**
**5 - 6 TON**

General Data	Nominal Tonnage Model No. Efficiency Type	5 Ton		6 Ton
		THA060B2B	THA060S2B	THA072S2B
		Basic	Standard	Standard
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh	63,400	64,500	74,000
	Net Cooling Capacity - Btuh	<sup>1</sup> 60,000	<sup>1</sup> 62,000	<sup>2</sup> 71,000
	ARI Rated Air Flow - cfm	2,000	2,000	2,400
	Total Unit Power - kW	6.7	5.3	6.7
	SEER (Btuh/Watt)	<sup>1</sup> 10.0	<sup>1</sup> 13.0	---
	EER (Btuh/Watt)	<sup>1</sup> 9.4	<sup>1</sup> 11.6	<sup>2</sup> 10.6
<b>Refrigerant</b>	Type	R-22	R-22	R-22
	Charge Furnished	10 lbs. 12 oz.	15 lbs. 0 oz.	14 lbs. 8 oz.
<b>Heating Performance</b>	Total High Heating Capacity - Btuh	62,000	59,000	73,000
	Total Unit Power - kW	6.1	4.8	5.9
	COP	<sup>1</sup> 3.0	<sup>1</sup> 3.68	<sup>2</sup> 3.6
	HSPF - Region IV (Region V)	6.6(6.0)	7.7(6.7)	---
	Total Low Heating Capacity - Btuh	40,000	31,400	42,000
	Total Unit Power - kW	5.6	4.0	5.4
	COP	<sup>1</sup> 2.1	<sup>1</sup> 2.36	<sup>2</sup> 2.3
<b>Electric Heating Options</b>		See Electrical/Electric Heat Tables Pages 31-34		
<b>Compressor Type (no.)</b>		Scroll (1)	Scroll (1)	Scroll (1)
<b>Outdoor Coil</b>	Net face area - sq. ft.	15.6	19.27	19.27
	Tube diameter - in.	3/8	3/8	3/8
	Number of rows	2.0	2.00	2.00
	Fins / inch	20	20	20
<b>Outdoor Coil Fan</b>	Motor HP	1/3	1/3	1/3
	Motor rpm	1075	1075	1075
	Total motor watts	390	405	405
	Diameter - in. / No. of blades	24 - 3	24 - 3	24 - 3
	Total air volume - cfm	4700	4800	4800
<b>Indoor Coil</b>	Net face area - sq. ft.	7.78	9.7	9.7
	Tube diameter - in.	3/8	3/8	3/8
	Number of rows	2	4	4
	Fins / inch	14	14	14
	Drain Connection (no. and size) - in.	(1) 3/4 NPT		
	Expansion device type Balanced Port Thermostatic Expansion Valve, removeable power head			
<sup>4</sup> <b>Indoor Blower &amp; Drive Selection</b>	Nominal Motor HP	1.5 hp, <sup>5</sup> 2 hp		
	Maximum Usable Motor HP	1.72 hp, 2.3 hp		
	Wheel nom. diameter x width - in.	10 x 10		
	Available Drive Kits	Drive Kit #3 - 833 - 1250 rpm Drive Kit #7 - 1212 - 1548 rpm	Drive Kit #4 - 968 - 1340 rpm Drive Kit #8 - 1193 - 1591 rpm	
<b>Filters</b>	Type	Disposable		
	Number and size - in.	(4) 16 x 20 x 2	(4) 20 x 20 x 2	
<b>Electrical Characteristics - 60 hz</b>		208/230V & 460V 3 phase	208/230V 1 phase  208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> Certified in accordance with the USE certification program, which is based on ARI Standard 210/240.

<sup>2</sup> Certified in accordance with the ULE certification program, which is based on ARI Standard 340/360.

**Cooling Ratings** - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

**High Temperature Heating Ratings** - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

**Low Temperature Heating Ratings** - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

<sup>3</sup> Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

<sup>4</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

<sup>5</sup> 2 hp blower motor is not available for 208/230V-1phase applications.

## COOLING / HEATING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 2 TON STANDARD EFFICIENCY - COOLING CAPACITY

THA024S2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	640	300	23.4	6.9	1.35	.70	.84	.97	22.5	6.6	1.51	.72	.86	.99	21.6	6.3	1.70	.73	.87	1.00	20.6	6.0	1.92	.74	.90	1.00
	800	380	24.4	7.2	1.35	.76	.92	1.00	23.5	6.9	1.52	.77	.94	1.00	22.5	6.6	1.70	.79	.96	1.00	21.5	6.3	1.92	.81	.99	1.00
	960	455	25.3	7.4	1.35	.81	.99	1.00	24.3	7.1	1.52	.83	1.00	1.00	23.5	6.9	1.71	.85	1.00	1.00	22.5	6.6	1.92	.87	1.00	1.00
67°F (19°C)	640	300	25.1	7.4	1.35	.55	.68	.80	24.1	7.1	1.52	.56	.69	.82	23.1	6.8	1.71	.57	.70	.83	22.1	6.5	1.92	.57	.71	.86
	800	380	26.0	7.6	1.36	.58	.73	.88	25.0	7.3	1.52	.59	.75	.90	24.0	7.0	1.71	.60	.76	.93	22.9	6.7	1.93	.61	.78	.95
	960	455	26.7	7.8	1.36	.62	.79	.96	25.6	7.5	1.53	.63	.81	.98	24.6	7.2	1.71	.64	.83	1.00	23.4	6.9	1.93	.65	.85	1.00
71°F (22°C)	640	300	26.8	7.9	1.36	.42	.54	.65	25.8	7.6	1.53	.42	.54	.66	24.8	7.3	1.71	.42	.55	.67	23.7	6.9	1.93	.42	.56	.69
	800	380	27.8	8.1	1.37	.43	.57	.71	26.7	7.8	1.53	.43	.58	.72	25.6	7.5	1.72	.44	.59	.74	24.4	7.2	1.93	.44	.60	.75
	960	455	28.4	8.3	1.38	.44	.60	.77	27.3	8.0	1.54	.44	.61	.78	26.2	7.7	1.72	.45	.63	.80	24.9	7.3	1.94	.46	.64	.83

### 2.5 TON STANDARD EFFICIENCY - COOLING CAPACITY

THA030S2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	28.2	8.3	1.66	.72	.87	1.00	27.0	7.9	1.88	.73	.89	1.00	25.8	7.6	2.13	.75	.91	1.00	24.5	7.2	2.40	.77	.94	1.00
	1000	470	29.4	8.6	1.66	.78	.95	1.00	28.2	8.3	1.88	.79	.97	1.00	27.0	7.9	2.13	.82	.99	1.00	25.7	7.5	2.41	.84	1.00	1.00
	1200	565	30.6	9.0	1.66	.84	1.00	1.00	29.5	8.6	1.88	.86	1.00	1.00	28.3	8.3	2.13	.88	1.00	1.00	27.1	7.9	2.40	.91	1.00	1.00
67°F (19°C)	800	380	30.2	8.9	1.66	.56	.70	.83	29.0	8.5	1.88	.57	.71	.84	27.7	8.1	2.13	.58	.72	.87	26.3	7.7	2.40	.59	.74	.89
	1000	470	31.3	9.2	1.66	.60	.76	.91	30.0	8.8	1.88	.61	.77	.93	28.6	8.4	2.13	.62	.79	.96	27.2	8.0	2.41	.63	.81	.98
	1200	565	32.2	9.4	1.66	.63	.81	.99	30.8	9.0	1.88	.64	.84	1.00	29.3	8.6	2.13	.66	.86	1.00	27.8	8.1	2.41	.67	.89	1.00
71°F (22°C)	800	380	32.5	9.5	1.66	.42	.54	.67	31.1	9.1	1.88	.42	.55	.68	29.7	8.7	2.13	.43	.56	.70	28.3	8.3	2.41	.43	.57	.71
	1000	470	33.6	9.8	1.65	.43	.58	.73	32.2	9.4	1.88	.44	.59	.74	30.7	9.0	2.13	.44	.60	.77	29.1	8.5	2.41	.45	.62	.79
	1200	565	34.3	10.1	1.65	.45	.62	.79	32.9	9.6	1.88	.45	.63	.81	31.3	9.2	2.13	.46	.65	.83	29.7	8.7	2.41	.47	.66	.86

### 2 TON STANDARD EFFICIENCY - HEATING CAPACITY

THA024S2

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input			
kBtuh	kW	kBtuh		kW		kBtuh		kW		kBtuh		kW		kBtuh	kW	
640	300	31.6	9.3	1.79	24.5	7.2	1.68	17.4	5.1	1.58	10.8	3.2	1.41	5.4	1.6	1.06
800	380	36.6	9.4	1.66	24.9	7.3	1.56	17.8	5.2	1.45	11.2	3.3	1.28	5.8	1.7	.93
960	455	32.4	9.5	1.59	25.3	7.4	1.49	18.2	5.3	1.38	11.6	3.4	1.21	6.2	1.8	.86

### 2.5 TON STANDARD EFFICIENCY - HEATING CAPACITY

THA030S2

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input			
kBtuh	kW	kBtuh		kW		kBtuh		kW		kBtuh		kW		kBtuh	kW	
800	380	36.6	10.7	2.03	28.5	8.4	1.91	20.4	6.0	1.79	12.7	3.7	1.59	6.2	1.8	1.19
1000	470	37.3	10.9	1.91	29.2	8.6	1.79	21.1	6.2	1.67	13.4	3.9	1.47	6.9	2.0	1.07
1200	565	37.9	11.1	1.82	29.8	8.7	1.70	21.7	6.4	1.58	14.0	4.1	1.38	7.5	2.2	.98

### 2 TON STANDARD EFFICIENCY - THA024S - HEATING PERFORMANCE at 800 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.66	32.0	9.4
60	16	1.64	30.2	8.9
55	13	1.61	28.4	8.3
50	10	1.58	26.7	7.8
47	8	1.57	25.6	7.5
45	7	1.56	24.9	7.3
40	4	1.53	23.1	6.8
35	2	1.50	21.4	6.3
30	-1	1.48	19.6	5.7
25	-4	1.45	17.8	5.2
20	-7	1.42	16.1	4.7
17	-8	1.41	15.0	4.4
15	-9	1.40	14.3	4.2
10	-12	1.37	12.5	3.7
5	-15	1.28	11.2	3.3
0	-18	1.20	9.9	2.9
-5	-21	1.11	8.5	2.5
-10	-23	1.02	7.2	2.1
-15	-26	.93	5.8	1.7
-20	-29	.85	4.5	1.3

### 2.5 TON STANDARD EFFICIENCY - THA030S - HEATING PERFORMANCE at 1000 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.91	37.3	10.9
60	16	1.88	35.3	10.3
55	13	1.85	33.3	9.8
50	10	1.82	31.2	9.1
47	8	1.80	30.0	8.8
45	7	1.79	29.2	8.6
40	4	1.76	27.2	8.0
35	2	1.73	25.1	7.4
30	-1	1.70	23.1	6.8
25	-4	1.67	21.1	6.2
20	-7	1.64	19.0	5.6
17	-8	1.62	17.8	5.2
15	-9	1.61	17.0	5.0
10	-12	1.57	15.0	4.4
5	-15	1.47	13.4	3.9
0	-18	1.37	11.7	3.4
-5	-21	1.27	10.1	3.0
-10	-23	1.17	8.5	2.5
-15	-26	1.07	6.9	2.0
-20	-29	.97	5.3	1.6

\*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

\*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

# COOLING / HEATING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

## 3 TON BASIC EFFICIENCY - COOLING CAPACITY

THA036B2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	960	455	35.5	10.4	2.50	.68	.83	.97	34.2	10.0	2.82	.69	.84	.98	32.8	9.6	3.18	.70	.86	1.00	31.4	9.2	3.58	.72	.89	1.00
	1200	565	36.9	10.8	2.52	.73	.91	1.00	35.5	10.4	2.84	.74	.93	1.00	34.1	10.0	3.20	.77	.95	1.00	32.6	9.6	3.60	.78	.97	1.00
	1440	680	38.1	11.2	2.52	.79	.97	1.00	36.7	10.8	2.85	.81	.99	1.00	35.3	10.3	3.21	.83	1.00	1.00	33.9	9.9	3.61	.85	1.00	1.00
67°F (19°C)	960	455	37.9	11.1	2.52	.53	.65	.79	36.5	10.7	2.85	.54	.67	.80	35.0	10.3	3.21	.55	.68	.82	33.4	9.8	3.61	.56	.69	.84
	1200	565	39.2	11.5	2.53	.56	.71	.87	37.7	11.0	2.86	.57	.72	.89	36.1	10.6	3.22	.58	.74	.91	34.4	10.1	3.62	.59	.76	.94
	1440	680	40.1	11.8	2.54	.59	.76	.94	38.5	11.3	2.87	.60	.78	.96	36.9	10.8	3.23	.61	.80	.98	35.2	10.3	3.63	.62	.83	1.00
71°F (22°C)	960	455	40.6	11.9	2.54	.40	.52	.63	39.0	11.4	2.87	.40	.52	.64	37.4	11.0	3.23	.41	.53	.65	35.8	10.5	3.64	.41	.54	.67
	1200	565	41.9	12.3	2.55	.41	.55	.68	40.2	11.8	2.88	.41	.56	.70	38.5	11.3	3.25	.42	.57	.71	36.7	10.8	3.65	.42	.58	.73
	1440	680	42.8	12.5	2.56	.42	.58	.74	41.0	12.0	2.89	.43	.59	.75	39.3	11.5	3.26	.43	.60	.78	37.4	11.0	3.66	.44	.62	.80

## 3 TON STANDARD EFFICIENCY - COOLING CAPACITY

THA036S2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	960	455	34.8	10.2	2.02	.69	.84	.99	33.5	9.8	2.28	.70	.86	1.00	32.1	9.4	2.58	.71	.88	1.00	30.7	9.0	2.93	.73	.91	1.00
	1200	565	36.2	10.6	2.03	.75	.93	1.00	34.9	10.2	2.29	.76	.95	1.00	33.5	9.8	2.59	.78	.97	1.00	32.1	9.4	2.93	.80	1.00	1.00
	1440	680	37.5	11.0	2.04	.81	1.00	1.00	36.3	10.6	2.30	.83	1.00	1.00	35.0	10.3	2.59	.85	1.00	1.00	33.6	9.8	2.93	.88	1.00	1.00
67°F (19°C)	960	455	37.2	10.9	2.04	.54	.66	.80	35.8	10.5	2.30	.54	.68	.82	34.3	10.1	2.59	.55	.69	.84	32.8	9.6	2.93	.56	.70	.87
	1200	565	38.5	11.3	2.04	.57	.72	.89	37.0	10.8	2.30	.58	.73	.92	35.4	10.4	2.60	.59	.76	.94	33.8	9.9	2.94	.60	.78	.96
	1440	680	39.4	11.5	2.05	.60	.78	.97	37.8	11.1	2.31	.62	.81	.99	36.3	10.6	2.60	.63	.83	1.00	34.6	10.1	2.95	.64	.86	1.00
71°F (22°C)	960	455	39.8	11.7	2.05	.40	.52	.64	38.3	11.2	2.31	.41	.53	.65	36.7	10.8	2.61	.41	.54	.67	35.1	10.3	2.95	.41	.55	.68
	1200	565	41.0	12.0	2.06	.42	.56	.70	39.5	11.6	2.32	.42	.57	.71	37.8	11.1	2.61	.42	.58	.73	36.1	10.6	2.96	.43	.59	.75
	1440	680	41.9	12.3	2.07	.43	.59	.76	40.3	11.8	2.33	.43	.61	.78	38.6	11.3	2.62	.44	.62	.80	36.8	10.8	2.96	.44	.63	.83

## 3 TON BASIC EFFICIENCY - HEATING CAPACITY

THA036B2

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil																			
	65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
	cfm	L/s	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
960	455	42.8	12.5	2.80	32.6	9.6	2.57	21.8	6.4	2.33	15.2	4.5	2.11	7.6	2.2	1.59				
1200	565	43.4	12.7	2.63	33.2	9.7	2.40	22.4	6.6	2.15	15.8	4.6	1.93	8.2	2.4	1.41				
1440	680	43.9	12.9	2.52	33.7	9.9	2.29	22.9	6.7	2.04	16.3	4.8	1.82	8.7	2.5	1.30				

## 3 TON STANDARD EFFICIENCY - HEATING CAPACITY

THA036S2

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil																			
	65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
	cfm	L/s	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
960	455	41.9	12.3	2.47	32.2	9.4	2.31	21.9	6.4	2.16	15.3	4.5	1.92	7.7	2.3	1.44				
1200	565	42.4	12.4	2.31	32.7	9.6	2.16	22.4	6.6	2.00	15.8	4.6	1.77	8.2	2.4	1.29				
1440	680	43.0	12.6	2.21	33.3	9.8	2.06	23.0	6.7	1.90	16.4	4.8	1.67	8.8	2.6	1.19				

## 3 TON BASIC EFFICIENCY - THA036B - HEATING PERFORMANCE at 1200 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.63	43.4	12.7
60	16	2.58	41.1	12.0
55	13	2.53	38.7	11.3
50	10	2.47	36.4	10.7
47	8	2.44	35.0	10.3
45	7	2.40	33.2	9.7
40	4	2.29	28.7	8.4
35	2	2.17	24.2	7.1
30	-1	2.16	23.3	6.8
25	-4	2.15	22.4	6.6
20	-7	2.14	21.5	6.3
17	-8	2.13	21.0	6.2
15	-9	2.11	20.1	5.9
10	-12	2.06	17.7	5.2
5	-15	1.93	15.8	4.6
0	-18	1.80	13.9	4.1
-5	-21	1.67	12.0	3.5
-10	-23	1.54	10.1	3.0
-15	-26	1.41	8.2	2.4
-20	-29	1.28	6.3	1.8

## 3 TON STANDARD EFFICIENCY - THA036S - HEATING PERFORMANCE at 1200 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.31	42.4	12.4
60	16	2.27	40.2	11.8
55	13	2.23	37.9	11.1
50	10	2.20	35.7	10.5
47	8	2.17	34.3	10.1
45	7	2.16	32.7	9.6
40	4	2.12	28.5	8.4
35	2	2.08	24.3	7.1
30	-1	2.04	23.4	6.9
25	-4	2.00	22.4	6.6
20	-7	1.97	21.5	6.3
17	-8	1.94	20.9	6.1
15	-9	1.93	20.0	5.9
10	-12	1.89	17.7	5.2
5	-15	1.77	15.8	4.6
0	-18	1.65	13.9	4.1
-5	-21	1.53	12.0	3.5
-10	-23	1.41	10.1	3.0
-15	-26	1.29	8.2	2.4
-20	-29	1.17	6.3	1.8

## COOLING / HEATING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 4 TON BASIC EFFICIENCY - COOLING CAPACITY

THA048B2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1280	605	46.8	13.7	3.52	.71	.85	.97	45.0	13.2	3.94	.72	.86	.98	43.1	12.6	4.41	.73	.88	1.00	41.1	12.0	4.95	.75	.90	1.00
	1600	755	48.7	14.3	3.56	.76	.91	1.00	46.8	13.7	3.98	.77	.93	1.00	44.8	13.1	4.45	.79	.95	1.00	42.7	12.5	4.98	.81	.97	1.00
	1920	905	50.2	14.7	3.60	.81	.97	1.00	48.3	14.2	4.01	.82	.98	1.00	46.3	13.6	4.47	.85	1.00	1.00	44.3	13.0	5.02	.87	1.00	1.00
67°F (19°C)	1280	605	50.0	14.7	3.59	.56	.68	.81	48.0	14.1	4.00	.56	.69	.83	46.0	13.5	4.47	.57	.71	.85	43.7	12.8	5.01	.58	.72	.87
	1600	755	51.6	15.1	3.62	.58	.73	.88	49.5	14.5	4.03	.59	.75	.90	47.3	13.9	4.51	.60	.77	.92	45.0	13.2	5.04	.61	.79	.94
	1920	905	52.7	15.4	3.64	.61	.79	.94	50.6	14.8	4.06	.62	.80	.96	48.4	14.2	4.53	.64	.82	.98	46.0	13.5	5.06	.65	.85	.99
71°F (22°C)	1280	605	53.4	15.6	3.66	.42	.54	.66	51.3	15.0	4.07	.42	.54	.67	49.1	14.4	4.55	.42	.55	.68	46.7	13.7	5.08	.43	.56	.70
	1600	755	55.0	16.1	3.69	.43	.57	.71	52.8	15.5	4.11	.43	.58	.72	50.5	14.8	4.58	.44	.59	.74	48.0	14.1	5.12	.44	.60	.76
	1920	905	56.1	16.4	3.72	.44	.60	.76	53.8	15.8	4.13	.44	.61	.78	51.4	15.1	4.61	.45	.63	.80	48.9	14.3	5.14	.45	.64	.82

### 4 TON STANDARD EFFICIENCY - COOLING CAPACITY

THA048S2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1280	605	47.4	13.9	2.89	.70	.85	.99	45.6	13.4	3.24	.72	.87	1.00	43.6	12.8	3.65	.73	.89	1.00	41.6	12.2	4.12	.75	.91	1.00
	1600	755	49.3	14.4	2.90	.76	.94	1.00	47.4	13.9	3.25	.78	.96	1.00	45.5	13.3	3.66	.80	.98	1.00	43.5	12.7	4.14	.82	1.00	1.00
	1920	905	51.2	15.0	2.92	.82	1.00	1.00	49.4	14.5	3.27	.85	1.00	1.00	47.5	13.9	3.68	.87	1.00	1.00	45.6	13.4	4.15	.89	1.00	1.00
67°F (19°C)	1280	605	50.6	14.8	2.91	.55	.68	.81	48.6	14.2	3.26	.56	.69	.83	46.5	13.6	3.67	.57	.71	.85	44.4	13.0	4.14	.57	.72	.87
	1600	755	52.3	15.3	2.92	.58	.74	.90	50.3	14.7	3.28	.59	.75	.92	48.1	14.1	3.69	.60	.77	.95	45.8	13.4	4.16	.62	.79	.97
	1920	905	53.6	15.7	2.94	.62	.80	.98	51.4	15.1	3.29	.63	.82	1.00	49.2	14.4	3.70	.64	.84	1.00	46.9	13.7	4.17	.66	.87	1.00
71°F (22°C)	1280	605	54.1	15.9	2.94	.41	.53	.65	51.9	15.2	3.29	.42	.54	.67	49.8	14.6	3.70	.42	.55	.68	47.5	13.9	4.18	.42	.56	.70
	1600	755	55.8	16.4	2.95	.43	.57	.71	53.6	15.7	3.31	.43	.58	.73	51.2	15.0	3.72	.43	.59	.75	48.8	14.3	4.19	.44	.60	.77
	1920	905	57.0	16.7	2.96	.44	.61	.78	54.6	16.0	3.32	.44	.62	.80	52.2	15.3	3.73	.45	.63	.82	49.7	14.6	4.20	.45	.65	.85

### 4 TON BASIC EFFICIENCY - HEATING CAPACITY

THA048B2

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1280	605	59.1	17.3	3.91	44.4	13.0	3.51	28.7	8.4	3.07	20.1	5.9	2.75	10.2	3.0	2.09
1600	755	59.8	17.5	3.68	45.1	13.2	3.27	29.4	8.6	2.84	20.8	6.1	2.51	10.9	3.2	1.85
1920	905	60.4	17.7	3.53	45.7	13.4	3.13	30.0	8.8	2.69	21.4	6.3	2.37	11.5	3.4	1.71

### 4 TON STANDARD EFFICIENCY - HEATING CAPACITY

THA048S2

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1280	605	62.1	18.2	4.18	44.9	13.2	3.59	31.0	9.1	3.11	20.6	6.0	2.76	13.4	3.9	2.57
1600	755	62.8	18.4	3.86	45.5	13.3	3.28	31.6	9.3	2.81	21.2	6.2	2.45	14.1	4.1	2.19
1920	905	64.3	18.8	3.69	46.9	13.7	3.12	33.0	9.7	2.65	22.5	6.6	2.28	15.9	4.7	1.99

### 4 TON BASIC EFFICIENCY - THA048B - HEATING PERFORMANCE at 1600 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C			kBtuh	kW
65	18	3.68		59.8	17.5
60	16	3.59		56.5	16.6
55	13	3.50		53.2	15.6
50	10	3.41		49.8	14.6
47	8	3.35		47.9	14.0
45	7	3.27		45.1	13.2
40	4	3.07		38.1	11.2
35	2	2.88		31.2	9.1
30	-1	2.86		30.3	8.9
25	-4	2.84		29.4	8.6
20	-7	2.82		28.5	8.4
17	-8	2.81		27.9	8.2
15	-9	2.77		26.6	7.8
10	-12	2.68		23.2	6.8
5	-15	2.51		20.8	6.1
0	-18	2.35		18.3	5.4
-5	-21	2.18		15.8	4.6
-10	-23	2.02		13.3	3.9
-15	-26	1.85		10.9	3.2
-20	-29	1.68		8.4	2.5

### 4 TON STANDARD EFFICIENCY - THA048S - HEATING PERFORMANCE at 1600 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C			kBtuh	kW
65	18	3.86		62.8	18.4
60	16	3.70		58.1	17.0
55	13	3.56		53.7	15.7
50	10	3.42		49.5	14.5
47	8	3.33		47.1	13.8
45	7	3.28		45.5	13.3
40	4	3.15		41.7	12.2
35	2	3.03		38.1	11.2
30	-1	2.92		34.8	10.2
25	-4	2.81		31.6	9.3
20	-7	2.71		28.7	8.4
17	-8	2.65		27.0	7.9
15	-9	2.62		26.0	7.6
10	-12	2.53		23.5	6.9
5	-15	2.45		21.2	6.2
0	-18	2.37		19.1	5.6
-5	-21	2.31		17.2	5.0
-10	-23	2.24		15.6	4.6
-15	-26	2.19		14.1	4.1
-20	-29	2.14		12.9	3.8

## COOLING / HEATING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 5 TON BASIC EFFICIENCY - COOLING CAPACITY

THA060B2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1600	755	59.9	17.6	4.38	.67	.82	.95	57.8	16.9	4.88	.68	.83	.97	55.4	16.2	5.45	.69	.85	.98	53.1	15.6	6.09	.71	.87	.99
	2000	945	62.2	18.2	4.43	.72	.89	1.00	59.9	17.6	4.93	.73	.91	1.00	57.5	16.9	5.51	.75	.92	1.00	55.1	16.1	6.15	.77	.95	1.00
	2400	1135	64.0	18.8	4.47	.77	.95	1.00	61.7	18.1	4.98	.79	.96	1.00	59.3	17.4	5.55	.81	.98	1.00	56.9	16.7	6.19	.83	1.00	1.00
67°F (19°C)	1600	755	63.8	18.7	4.46	.53	.65	.78	61.5	18.0	4.96	.54	.66	.79	59.0	17.3	5.54	.54	.67	.81	56.4	16.5	6.17	.55	.68	.83
	2000	945	65.7	19.3	4.49	.56	.70	.85	63.4	18.6	5.00	.56	.71	.87	60.8	17.8	5.57	.57	.72	.89	58.0	17.0	6.22	.58	.74	.92
	2400	1135	67.1	19.7	4.53	.58	.75	.92	64.7	19.0	5.03	.59	.77	.94	62.0	18.2	5.61	.60	.78	.96	59.3	17.4	6.25	.61	.81	.98
71°F (22°C)	1600	755	67.9	19.9	4.54	.40	.51	.63	65.6	19.2	5.05	.40	.52	.63	62.9	18.4	5.63	.40	.53	.65	60.2	17.6	6.27	.41	.53	.66
	2000	945	69.9	20.5	4.58	.41	.54	.67	67.4	19.8	5.09	.41	.55	.69	64.7	19.0	5.67	.42	.56	.70	61.8	18.1	6.31	.42	.57	.72
	2400	1135	71.2	20.9	4.61	.42	.57	.72	68.7	20.1	5.12	.42	.58	.74	65.8	19.3	5.69	.43	.59	.76	62.9	18.4	6.35	.43	.60	.78

### 5 TON STANDARD EFFICIENCY - COOLING CAPACITY

THA060S2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1600	755	60.8	17.8	3.71	.69	.85	1.00	58.4	17.1	4.11	.70	.87	1.00	55.8	16.4	4.56	.72	.89	1.00	53.1	15.6	5.05	.73	.92	1.00
	2000	945	63.4	18.6	3.75	.75	.94	1.00	60.9	17.8	4.15	.77	.97	1.00	58.3	17.1	4.60	.79	.99	1.00	55.7	16.3	5.11	.82	1.00	1.00
	2400	1135	65.9	19.3	3.79	.82	1.00	1.00	63.6	18.6	4.19	.84	1.00	1.00	61.0	17.9	4.65	.87	1.00	1.00	58.4	17.1	5.15	.90	1.00	1.00
67°F (19°C)	1600	755	65.0	19.0	3.77	.54	.67	.80	62.3	18.3	4.17	.54	.68	.83	59.5	17.4	4.63	.55	.69	.85	56.5	16.6	5.12	.56	.71	.88
	2000	945	67.3	19.7	3.81	.57	.72	.90	64.5	18.9	4.21	.58	.74	.93	61.5	18.0	4.66	.59	.76	.96	58.3	17.1	5.16	.61	.79	.99
	2400	1135	68.9	20.2	3.83	.61	.79	.99	66.0	19.3	4.24	.62	.82	1.00	62.9	18.4	4.69	.63	.84	1.00	59.7	17.5	5.19	.65	.88	1.00
71°F (22°C)	1600	755	69.6	20.4	3.84	.40	.52	.64	66.7	19.5	4.25	.40	.53	.65	63.7	18.7	4.70	.41	.54	.67	60.5	17.7	5.20	.41	.55	.69
	2000	945	71.8	21.0	3.88	.41	.56	.70	68.8	20.2	4.28	.42	.57	.72	65.5	19.2	4.74	.42	.58	.74	62.1	18.2	5.23	.43	.59	.76
	2400	1135	73.3	21.5	3.90	.43	.60	.77	70.1	20.5	4.31	.43	.61	.79	66.8	19.6	4.76	.44	.62	.82	63.3	18.6	5.26	.45	.64	.85

### 5 TON BASIC EFFICIENCY - HEATING CAPACITY

THA060B2

Indoor Coil Air Volume 70°F db (21°C db)	Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
1600	755	73.9	21.7	5.14	57.4	16.8	4.79	39.6	11.6	4.43	29.8	8.7	4.01	14.5	4.2	2.99	
2000	945	75.2	22.0	4.88	58.7	17.2	4.53	40.9	12.0	4.17	31.1	9.1	3.75	15.8	4.6	2.73	
2400	1135	76.4	22.4	4.73	59.9	17.6	4.38	42.1	12.3	4.02	32.3	9.5	3.60	17.0	5.0	2.58	

### 5 TON STANDARD EFFICIENCY - HEATING CAPACITY

THA060S2

Indoor Coil Air Volume 70°F db (21°C db)	Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
1600	755	74.8	21.9	4.04	54.9	16.1	3.76	34.0	10.0	3.47	21.6	6.3	3.11	11.2	3.3	2.34	
2000	945	75.6	22.2	3.77	55.7	16.3	3.49	34.8	10.2	3.20	22.4	6.6	2.84	12.0	3.5	2.07	
2400	1135	76.5	22.4	3.60	56.6	16.6	3.32	35.7	10.5	3.03	23.3	6.8	2.67	12.9	3.8	1.90	

### 5 TON BASIC EFFICIENCY - THA060B - HEATING PERFORMANCE at 2000 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.88	75.2	22.0
60	16	4.80	71.5	21.0
55	13	4.72	67.9	19.9
50	10	4.64	64.2	18.8
47	8	4.59	62.0	18.2
45	7	4.53	58.7	17.2
40	4	4.38	50.3	14.7
35	2	4.23	42.0	12.3
30	-1	4.20	41.4	12.1
25	-4	4.17	40.9	12.0
20	-7	4.13	40.3	11.8
17	-8	4.11	40.0	11.7
15	-9	4.08	38.5	11.3
10	-12	4.00	34.9	10.2
5	-15	3.75	31.1	9.1
0	-18	3.49	27.2	8.0
-5	-21	3.24	23.4	6.9
-10	-23	2.98	19.6	5.7
-15	-26	2.73	15.8	4.6
-20	-29	2.47	12.0	3.5

### 5 TON STANDARD EFFICIENCY - THA060S - HEATING PERFORMANCE at 2000 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.77	75.6	22.2
60	16	3.71	71.0	20.8
55	13	3.64	66.4	19.5
50	10	3.57	61.8	18.1
47	8	3.53	59.0	17.3
45	7	3.49	55.7	16.3
40	4	3.39	47.3	13.9
35	2	3.28	39.0	11.4
30	-1	3.24	36.9	10.8
25	-4	3.20	34.8	10.2
20	-7	3.16	32.7	9.6
17	-8	3.13	31.4	9.2
15	-9	3.10	29.6	8.7
10	-12	3.04	25.0	7.3
5	-15	2.84	22.4	6.6
0	-18	2.65	19.8	5.8
-5	-21	2.46	17.2	5.0
-10	-23	2.27	14.6	4.3
-15	-26	2.07	12.0	3.5
-20	-29	1.88	9.4	2.8



## COOLING / HEATING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 6 TON STANDARD EFFICIENCY - COOLING CAPACITY

THA072S2

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1920	905	70.3	20.6	4.70	.69	.83	.98	67.6	19.8	5.25	.70	.85	1.00	64.7	19.0	5.89	.71	.87	1.00	61.5	18.0	6.64	.73	.90	1.00
	2400	1135	73.2	21.5	4.75	.74	.92	1.00	70.3	20.6	5.31	.76	.94	1.00	67.4	19.8	5.95	.78	.97	1.00	64.2	18.8	6.70	.80	.99	1.00
	2880	1360	75.7	22.2	4.80	.81	.99	1.00	73.1	21.4	5.35	.83	1.00	1.00	70.3	20.6	5.99	.85	1.00	1.00	67.2	19.7	6.75	.88	1.00	1.00
67°F (19°C)	1920	905	74.9	22.0	4.79	.54	.66	.79	72.1	21.1	5.34	.54	.67	.81	68.9	20.2	5.97	.55	.69	.83	65.5	19.2	6.72	.56	.70	.86
	2400	1135	77.6	22.7	4.84	.57	.72	.88	74.5	21.8	5.38	.58	.73	.91	71.2	20.9	6.02	.59	.75	.93	67.6	19.8	6.77	.60	.78	.96
	2880	1360	79.4	23.3	4.88	.60	.78	.97	76.2	22.3	5.42	.61	.80	.98	72.8	21.3	6.06	.63	.82	1.00	69.2	20.3	6.81	.64	.85	1.00
71°F (22°C)	1920	905	80.0	23.4	4.89	.40	.52	.64	77.0	22.6	5.44	.41	.53	.65	73.7	21.6	6.08	.41	.53	.66	70.1	20.5	6.83	.41	.54	.68
	2400	1135	82.6	24.2	4.94	.42	.56	.69	79.3	23.2	5.49	.42	.56	.71	75.8	22.2	6.12	.42	.58	.73	72.0	21.1	6.87	.43	.59	.75
	2880	1360	84.3	24.7	4.98	.43	.59	.76	80.9	23.7	5.52	.43	.60	.78	77.3	22.7	6.16	.44	.62	.80	73.3	21.5	6.91	.44	.63	.83

### 6 TON STANDARD EFFICIENCY - HEATING CAPACITY

THA072S2

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)			
	cfm	L/s	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input		
1920	905	90.4	26.5	5.09	68.3	20.0	4.63	45.2	13.2	4.15	29.9	8.8	3.69	15.1	4.4	2.79
2400	1135	91.6	26.8	4.77	69.5	20.4	4.31	46.4	13.6	3.84	31.1	9.1	3.37	16.3	4.8	2.47
2880	1360	92.6	27.1	4.58	70.5	20.7	4.12	47.4	13.9	3.64	32.1	9.4	3.18	17.3	5.1	2.28

### 6 TON STANDARD EFFICIENCY - THA072S - HEATING PERFORMANCE at 2400 cfm Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.77	91.6	26.8
60	16	4.66	86.4	25.3
55	13	4.56	81.3	23.8
50	10	4.45	76.1	22.3
47	8	4.39	73.0	21.4
45	7	4.31	69.5	20.4
40	4	4.13	60.7	17.8
35	2	3.95	51.9	15.2
30	-1	3.89	49.2	14.4
25	-4	3.84	46.4	13.6
20	-7	3.78	43.7	12.8
17	-8	3.75	42.0	12.3
15	-9	3.70	39.9	11.7
10	-12	3.60	34.8	10.2
5	-15	3.37	31.1	9.1
0	-18	3.15	27.4	8.0
-5	-21	2.92	23.7	6.9
-10	-23	2.70	20.0	5.9
-15	-26	2.47	16.3	4.8
-20	-29	2.25	12.6	3.7

**BLOWER DATA - DIRECT DRIVE**

**2 - 2.5 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (economizer, etc.) See page 29.
- 2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds					
	208 VOLTS			230 VOLTS		
	High	Medium	Low	High	Medium	Low
<b>2 and 2.5 Ton Standard Efficiency (Down-Flow)</b>				<b>THA024S and THA030S</b>		
0.0	1230	975	845	1425	1125	910
0.1	1220	940	815	1395	1110	875
0.2	1205	910	775	1375	1085	845
0.3	1185	880	730	1350	1055	815
0.4	1155	845	680	1320	1010	780
0.5	1115	800	---	1280	955	740
0.6	1060	750	---	1225	895	690
0.7	985	685	---	1150	830	---
0.8	890	---	---	1050	755	---
0.9	770	---	---	920	680	---
1.0	---	---	---	760	---	---
<b>2 and 2.5 Ton Standard Efficiency (Horizontal)</b>				<b>THA024S and THA030S</b>		
0.0	1165	925	800	1350	1065	865
0.1	1155	895	770	1325	1055	830
0.2	1140	865	735	1300	1030	800
0.3	1125	835	695	1280	1000	770
0.4	1095	800	645	1250	955	740
0.5	1055	760	---	1215	905	700
0.6	1005	710	---	1160	850	655
0.7	935	650	---	1090	785	---
0.8	845	---	---	995	720	---
0.9	730	---	---	875	645	---
1.0	---	---	---	720	---	---

**BLOWER DATA - DIRECT DRIVE**

**3 - 4 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (economizer, etc.) See page 29.
- 2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds								
	208 VOLTS			230 VOLTS			460/575 VOLTS		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
<b>3 and 4 Ton Basic Efficiency (Down-Flow)</b>						<b>THA036B and THA048B</b>			
0.0	2025	1635	1145	2225	1845	1330	2125	1750	1220
0.1	1965	1605	1145	2140	1805	1325	2075	1715	1215
0.2	1910	1575	1135	2070	1770	1305	2025	1680	1205
0.3	1855	1545	1105	2010	1730	1275	1975	1640	1185
0.4	1800	1500	1055	1950	1680	1225	1915	1595	1155
0.5	1740	1445	995	1885	1620	1165	1850	1540	1105
0.6	1665	1370	910	1805	1540	1085	1770	1475	1040
0.7	1575	1280	810	1705	1440	990	1680	1400	950
0.8	1460	1165	---	1580	1315	---	1570	1310	---
0.9	1325	1025	---	1425	1155	---	1445	1210	---
1.0	1160	---	---	1230	---	---	1300	---	---
<b>3 and 4 Ton Basic Efficiency (Horizontal)</b>						<b>THA036B and THA048B</b>			
0.0	1920	1560	1090	2110	1760	1265	2125	1770	1265
0.1	1855	1525	1090	2025	1715	1255	2055	1720	1245
0.2	1805	1490	1075	1955	1675	1235	1990	1675	1230
0.3	1755	1455	1045	1900	1635	1205	1930	1635	1210
0.4	1700	1415	1000	1840	1585	1165	1865	1590	1180
0.5	1640	1355	940	1775	1525	1100	1795	1535	1130
0.6	1560	1280	855	1690	1440	1020	1715	1465	1050
0.7	1455	1180	750	1580	1330	920	1620	1370	935
0.8	1325	1050	---	1435	1180	---	1500	1240	---
0.9	1155	885	---	1245	995	---	1365	1075	---
1.0	940	---	---	1000	---	---	1195	---	---
<b>3 Ton Standard Efficiency (Down-Flow)</b>						<b>THA036S</b>			
0.0	1990	1625	1145	2175	1825	1330	2100	1735	1220
0.1	1935	1595	1145	2100	1790	1320	2050	1705	1215
0.2	1885	1565	1130	2040	1755	1300	2000	1665	1205
0.3	1830	1530	1095	1980	1710	1265	1945	1625	1180
0.4	1775	1485	1050	1915	1660	1215	1885	1575	1145
0.5	1710	1425	980	1850	1595	1150	1815	1520	1095
0.6	1630	1350	900	1765	1510	1070	1735	1450	1025
0.7	1540	1255	800	1660	1405	975	1640	1375	940
0.8	1425	1140	---	1535	1280	---	1530	1285	---
0.9	1285	1000	---	1375	1120	---	1405	1185	---
1.0	1125	---	---	1180	---	---	1260	---	---
<b>3 Ton Standard Efficiency (Horizontal)</b>						<b>THA036S</b>			
0.0	1890	1545	1090	2060	1740	1265	2085	1745	1260
0.1	1830	1515	1090	1990	1700	1255	2020	1700	1240
0.2	1780	1480	1070	1930	1660	1230	1960	1660	1225
0.3	1730	1445	1040	1870	1615	1200	1900	1620	1205
0.4	1675	1400	995	1810	1565	1150	1835	1575	1170
0.5	1610	1340	930	1740	1500	1090	1760	1515	1115
0.6	1530	1260	845	1650	1410	1010	1680	1440	1035
0.7	1420	1160	745	1535	1295	905	1580	1340	915
0.8	1290	1025	---	1385	1150	---	1460	1210	---
0.9	1120	865	---	1195	965	---	1320	1045	---
1.0	910	---	---	960	---	---	1155	---	---

**BLOWER DATA - DIRECT DRIVE**

**4 - 5 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (economizer, etc.) See page 29
- 2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds								
	208 VOLTS			230 VOLTS			460/575 VOLTS		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
<b>4 Ton Standard Efficiency (Down-Flow) THA048S</b>									
0.0	1965	1615	1150	2135	1810	1325	2075	1725	1220
0.1	1910	1585	1145	2070	1775	1315	2025	1690	1215
0.2	1860	1555	1125	2010	1740	1290	1975	1650	1200
0.3	1810	1515	1090	1950	1695	1255	1920	1610	1175
0.4	1750	1465	1035	1890	1635	1200	1855	1555	1135
0.5	1685	1405	970	1815	1565	1135	1785	1500	1085
0.6	1600	1325	885	1730	1480	1055	1700	1430	1015
0.7	1505	1230	785	1620	1375	955	1605	1350	925
0.8	1390	1115	---	1490	1245	---	1495	1260	---
0.9	1250	975	---	1330	1085	---	1365	1160	---
1.0	1085	---	---	1135	---	---	1220	---	---
<b>4 Ton Standard Efficiency (Horizontal) THA048S</b>									
0.0	1865	1535	1090	2025	1725	1260	2055	1730	1255
0.1	1810	1505	1085	1960	1685	1250	1995	1685	1240
0.2	1765	1470	1065	1905	1645	1225	1935	1650	1220
0.3	1710	1430	1035	1845	1600	1190	1870	1605	1200
0.4	1655	1385	985	1785	1545	1140	1805	1555	1160
0.5	1585	1320	915	1710	1475	1075	1730	1495	1100
0.6	1495	1240	835	1615	1380	990	1645	1410	1015
0.7	1390	1135	730	1495	1265	890	1545	1310	895
0.8	1250	1000	---	1340	1115	---	1425	1175	---
0.9	1080	835	---	1150	930	---	1285	1010	---
1.0	875	---	---	915	---	---	1115	---	---
External Static Pressure (in. w.g.)	208 VOLTS		230 VOLTS		460/575 VOLTS				
	High	Low	High	Low	High	Low			
<b>5 Ton Basic Efficiency (Down-Flow) THA060B</b>									
0.0	2180	1670	2360	1970	2300	1745			
0.1	2145	1655	2325	1935	2180	1710			
0.2	2110	1650	2290	1910	2090	1690			
0.3	2080	1640	2250	1880	2035	1680			
0.4	2045	1630	2210	1855	1995	1670			
0.5	2005	1610	2165	1825	1965	1655			
0.6	1960	1580	2110	1785	1940	1635			
0.7	1905	1540	2045	1735	1905	1600			
0.8	1835	1480	1970	1670	1855	1545			
0.9	1750	1405	1875	1590	1780	1465			
1.0	1645	---	1765	---	1670	---			
<b>5 Ton Basic Efficiency (Horizontal) THA060B</b>									
0.0	2070	1600	2235	1890	2285	1800			
0.1	2030	1600	2195	1870	2225	1800			
0.2	1990	1595	2155	1845	2170	1790			
0.3	1945	1580	2110	1815	2120	1775			
0.4	1900	1555	2055	1775	2070	1745			
0.5	1850	1525	2000	1725	2020	1710			
0.6	1795	1480	1930	1670	1965	1660			
0.7	1730	1425	1855	1610	1895	1600			
0.8	1650	1360	1770	1535	1820	1525			
0.9	1560	1280	1675	1450	1730	1440			
1.0	1460	---	1565	---	1620	---			

**BLOWER DATA - BELT DRIVE**

**3 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (economizer, etc.) See page 29

2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g. 3 Ton Basic Efficiency (Down-Flow) THA036B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #1</b>										<b>Drive Kit #5</b>	
900	480	0.10	590	0.15	690	0.25	780	0.30	860	0.40	935	0.55	1005	0.65	1065	0.75
1000	510	0.10	610	0.20	705	0.25	790	0.35	870	0.45	945	0.55	1010	0.65	1075	0.80
1100	540	0.15	635	0.20	720	0.30	805	0.35	880	0.45	955	0.60	1020	0.70	1085	0.85
1200	570	0.15	660	0.25	740	0.30	820	0.40	895	0.50	965	0.60	1030	0.75	1095	0.85
1300	605	0.20	685	0.25	765	0.35	840	0.45	910	0.55	980	0.65	1045	0.80	1105	0.90
1400	640	0.25	715	0.30	790	0.40	860	0.50	930	0.60	995	0.70	1055	0.85	1115	0.95
1500	675	0.30	745	0.35	815	0.45	880	0.55	950	0.65	1010	0.75	1070	0.90	1130	1.00

**0.90 to 1.60 in. w.g. 3 Ton Basic Efficiency (Down-Flow) THA036B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.0		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #5</b>						<b>Field Furnished</b>									
900	1125	0.90	1185	1.00	1240	1.15	1290	1.30	1340	1.45	1390	1.60	1435	1.75	1480	1.95
1000	1135	0.90	1190	1.05	1245	1.20	1300	1.35	1350	1.50	1395	1.65	1440	1.80	1485	1.95
1100	1145	0.95	1200	1.10	1255	1.25	1305	1.40	1355	1.55	1405	1.70	1450	1.85	1495	2.05
1200	1155	1.00	1210	1.15	1265	1.30	1315	1.45	1365	1.60	1410	1.75	1460	1.95	1505	2.10
1300	1165	1.05	1220	1.20	1270	1.35	1325	1.50	1375	1.65	1420	1.80	1465	2.00	1510	2.15
1400	1175	1.10	1230	1.25	1280	1.40	1335	1.55	1380	1.70	1430	1.90	1475	2.05	1520	2.25
1500	1185	1.15	1240	1.30	1295	1.45	1345	1.60	1390	1.80	1440	1.95	1485	2.15	1530	2.30

**0.10 to 0.80 in. w.g. 3 Ton Basic Efficiency (Horizontal) THA036B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #1</b>											
900	475	0.10	565	0.15	650	0.20	725	0.30	800	0.35	870	0.45	930	0.55	990	0.65
1000	510	0.10	590	0.15	665	0.25	740	0.30	815	0.40	880	0.50	940	0.60	1000	0.70
1100	545	0.15	615	0.20	690	0.25	760	0.35	825	0.40	890	0.50	950	0.60	1010	0.75
1200	585	0.20	650	0.25	715	0.30	780	0.40	845	0.45	905	0.55	965	0.65	1020	0.75
1300	625	0.25	680	0.30	740	0.35	800	0.40	860	0.50	920	0.60	980	0.70	1030	0.80
1400	665	0.30	715	0.35	770	0.40	830	0.50	885	0.55	940	0.65	995	0.75	1045	0.85
1500	705	0.35	750	0.40	805	0.45	855	0.55	910	0.60	960	0.70	1010	0.80	1065	0.90

**0.90 to 1.60 in. w.g. 3 Ton Basic Efficiency (Horizontal) THA036B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.0		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #5</b>										<b>Field</b>					
900	1045	0.75	1100	0.90	1150	1.00	1195	1.10	1240	1.25	1285	1.40	1325	1.50	1365	1.65
1000	1055	0.80	1105	0.90	1155	1.05	1205	1.15	1250	1.30	1295	1.45	1335	1.55	1375	1.70
1100	1065	0.85	1115	0.95	1165	1.10	1215	1.20	1260	1.35	1305	1.50	1345	1.60	1385	1.75
1200	1075	0.90	1125	1.00	1175	1.15	1220	1.25	1270	1.40	1310	1.55	1355	1.70	1395	1.80
1300	1085	0.90	1135	1.05	1185	1.20	1230	1.30	1275	1.45	1320	1.60	1365	1.75	1405	1.90
1400	1100	1.00	1150	1.10	1195	1.25	1240	1.35	1285	1.50	1330	1.65	1370	1.80	1415	1.95
1500	1115	1.05	1160	1.15	1210	1.30	1255	1.45	1295	1.55	1340	1.70	1380	1.85	1420	2.00

**BLOWER DATA - BELT DRIVE**

**3 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (economizer, etc.) See page 29

2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 1.00 in. w.g.**

**3 Ton Standard Efficiency (Down-Flow)**

**THA036S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #1</b>										<b>Kit 5</b>	
900	485	0.10	595	0.15	690	0.20	780	0.30	860	0.40	930	0.50	1000	0.60	1065	0.75
1000	520	0.10	615	0.20	705	0.25	790	0.35	870	0.45	945	0.55	1010	0.65	1075	0.75
1100	550	0.15	640	0.20	725	0.30	805	0.35	885	0.45	955	0.55	1020	0.70	1085	0.80
1200	585	0.20	665	0.25	745	0.30	825	0.40	900	0.50	965	0.60	1030	0.70	1095	0.85
1300	620	0.20	695	0.30	770	0.35	845	0.45	915	0.55	980	0.65	1045	0.75	1105	0.90
1400	660	0.25	730	0.35	795	0.40	865	0.50	935	0.60	995	0.70	1060	0.80	1120	0.95
1500	695	0.30	760	0.40	825	0.45	890	0.55	955	0.65	1015	0.75	1075	0.85	1135	1.00

**0.90 to 1.60 in. w.g.**

**3 Ton Standard Efficiency (Down-Flow)**

**THA036S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.0		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #5</b>										<b>Field Furnished</b>					
900	1125	0.85	1180	1.00	1230	1.10	1285	1.25	1330	1.35	1380	1.50	1425	1.65	1465	1.80
1000	1130	0.90	1190	1.00	1240	1.15	1295	1.30	1340	1.40	1390	1.60	1435	1.75	1475	1.85
1100	1140	0.90	1200	1.05	1250	1.20	1300	1.35	1350	1.50	1400	1.65	1445	1.80	1485	1.95
1200	1150	0.95	1210	1.10	1260	1.25	1310	1.40	1360	1.55	1410	1.70	1455	1.85	1495	2.00
1300	1165	1.00	1220	1.15	1270	1.30	1320	1.45	1370	1.60	1415	1.75	1465	1.90	1505	2.05
1400	1175	1.05	1230	1.20	1280	1.35	1330	1.50	1380	1.65	1425	1.80	1470	1.95	1515	2.15
1500	1190	1.15	1240	1.25	1295	1.40	1345	1.55	1390	1.70	1435	1.90	1480	2.05	1525	2.20

**0.10 to 0.80 in. w.g.**

**3 Ton Standard Efficiency (Horizontal)**

**THA036S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #1</b>											
900	480	0.10	570	0.15	655	0.20	735	0.30	810	0.35	875	0.45	940	0.55	1000	0.65
1000	520	0.15	595	0.15	675	0.25	750	0.30	820	0.40	890	0.50	950	0.60	1010	0.70
1100	555	0.15	625	0.20	695	0.25	765	0.35	835	0.45	900	0.50	960	0.60	1020	0.75
1200	595	0.20	660	0.25	725	0.30	790	0.40	850	0.45	915	0.55	975	0.65	1030	0.75
1300	635	0.25	690	0.30	750	0.35	810	0.40	870	0.50	930	0.60	990	0.70	1045	0.80
1400	675	0.30	730	0.35	785	0.40	840	0.50	895	0.55	950	0.65	1005	0.75	1060	0.85
1500	720	0.35	765	0.40	815	0.45	870	0.55	920	0.60	970	0.70	1025	0.80	1075	0.95

**0.90 to 1.60 in. w.g.**

**3 Ton Standard Efficiency (Horizontal)**

**THA036S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.0		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #5</b>										<b>Field</b>					
900	1055	0.75	1105	0.90	1155	1.00	1200	1.10	1245	1.25	1285	1.35	1325	1.50	1365	1.60
1000	1065	0.80	1115	0.90	1165	1.05	1210	1.15	1255	1.30	1300	1.40	1340	1.55	1380	1.70
1100	1075	0.85	1125	0.95	1175	1.10	1220	1.20	1265	1.35	1310	1.50	1350	1.60	1395	1.75
1200	1085	0.90	1135	1.00	1185	1.15	1235	1.25	1280	1.40	1320	1.55	1365	1.70	1405	1.85
1300	1095	0.95	1145	1.05	1195	1.20	1245	1.30	1290	1.45	1330	1.60	1375	1.75	1415	1.90
1400	1110	1.00	1160	1.10	1210	1.25	1255	1.40	1300	1.50	1340	1.65	1385	1.80	1425	1.95
1500	1125	1.05	1175	1.15	1220	1.30	1265	1.45	1310	1.60	1355	1.75	1395	1.85	1435	2.05

**BLOWER DATA - BELT DRIVE**

**4 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (economizer, etc.) See page 29

2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g. 4 Ton Basic Efficiency (Down-Flow) THA048B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>						<b>Low Static - Drive Kit #2</b>									
1200	570	0.15	655	0.20	735	0.30	815	0.35	885	0.45	955	0.55	1015	0.65	1075	0.75
1300	605	0.20	680	0.25	760	0.30	830	0.40	900	0.50	965	0.60	1030	0.70	1090	0.80
1400	640	0.25	710	0.30	785	0.35	855	0.45	920	0.55	985	0.65	1045	0.75	1100	0.85
1500	675	0.25	740	0.35	810	0.40	875	0.50	940	0.60	1000	0.70	1060	0.80	1115	0.90
1600	710	0.30	775	0.40	835	0.45	900	0.55	960	0.65	1020	0.75	1080	0.85	1135	0.95
1700	745	0.40	805	0.45	865	0.50	925	0.60	985	0.70	1040	0.80	1095	0.90	1150	1.05
1800	785	0.45	840	0.50	895	0.60	955	0.70	1010	0.80	1065	0.90	1115	1.00	1170	1.10
1900	820	0.50	875	0.60	930	0.65	980	0.75	1035	0.85	1090	0.95	1140	1.10	1190	1.20
2000	860	0.60	910	0.65	960	0.75	1010	0.85	1065	0.95	1115	1.05	1165	1.15	1210	1.30

**0.90 to 1.60 in. w.g. 4 Ton Basic Efficiency (Down-Flow) THA048B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #6</b>										<b>Field Furnished</b>					
1200	1135	0.85	1190	1.00	1240	1.10	1290	1.25	1340	1.35	1385	1.50	1430	1.65	1475	1.80
1300	1145	0.90	1200	1.05	1250	1.15	1300	1.30	1350	1.45	1395	1.55	1440	1.70	1485	1.85
1400	1160	0.95	1210	1.10	1260	1.20	1310	1.35	1360	1.50	1405	1.65	1450	1.75	1490	1.90
1500	1170	1.00	1225	1.15	1275	1.30	1325	1.40	1370	1.55	1415	1.70	1460	1.85	1500	2.00
1600	1185	1.10	1235	1.20	1285	1.35	1335	1.50	1380	1.60	1425	1.75	1470	1.90	1515	2.10
1700	1200	1.15	1255	1.30	1300	1.40	1350	1.55	1395	1.70	1440	1.85	1480	2.00	1525	2.15
1800	1220	1.25	1270	1.35	1315	1.50	1365	1.65	1410	1.80	1450	1.90	1495	2.10	1535	2.25
1900	1240	1.30	1285	1.45	1335	1.60	1380	1.75	1420	1.85	1465	2.00	1505	2.15	1550	2.35
2000	1260	1.40	1305	1.55	1350	1.70	1395	1.80	1440	2.00	1480	2.10	1520	2.25	1560	2.45

**0.10 to 0.80 in. w.g. 4 Ton Basic Efficiency (Horizontal) THA048B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>						<b>Low Static - Drive Kit #2</b>									
1200	580	0.15	645	0.20	710	0.25	770	0.35	835	0.40	895	0.50	950	0.55	1005	0.65
1300	620	0.20	675	0.25	735	0.30	795	0.35	855	0.45	910	0.50	965	0.60	1020	0.70
1400	660	0.25	710	0.30	765	0.35	820	0.40	875	0.50	930	0.55	985	0.65	1035	0.75
1500	700	0.30	745	0.35	800	0.40	850	0.50	900	0.55	950	0.60	1000	0.70	1050	0.80
1600	740	0.35	785	0.40	830	0.45	880	0.55	930	0.60	975	0.70	1025	0.80	1070	0.85
1700	780	0.45	820	0.50	865	0.55	910	0.60	955	0.70	1000	0.75	1045	0.85	1090	0.95
1800	820	0.50	860	0.55	900	0.60	945	0.70	985	0.75	1030	0.85	1070	0.90	1115	1.00
1900	860	0.60	900	0.65	940	0.70	980	0.80	1020	0.85	1060	0.95	1100	1.00	1140	1.10
2000	905	0.70	940	0.75	975	0.80	1015	0.90	1050	0.95	1090	1.05	1130	1.10	1165	1.20

**0.90 to 1.60 in. w.g. 4 Ton Basic Efficiency (Horizontal) THA048B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Kit 2</b>		<b>High Static - Drive Kit #6</b>													
1200	1060	0.75	1110	0.85	1155	0.95	1205	1.05	1245	1.15	1290	1.30	1330	1.40	1370	1.55
1300	1070	0.80	1120	0.90	1165	1.00	1210	1.10	1255	1.20	1300	1.35	1340	1.45	1380	1.60
1400	1085	0.85	1130	0.95	1180	1.05	1225	1.15	1265	1.25	1310	1.40	1350	1.50	1390	1.65
1500	1100	0.90	1145	1.00	1190	1.10	1235	1.20	1280	1.35	1320	1.45	1360	1.60	1400	1.70
1600	1115	0.95	1160	1.05	1205	1.15	1250	1.30	1290	1.40	1330	1.50	1370	1.65	1410	1.80
1700	1135	1.05	1180	1.15	1220	1.25	1265	1.35	1305	1.50	1345	1.60	1385	1.75	1425	1.85
1800	1155	1.10	1200	1.20	1240	1.35	1280	1.45	1320	1.55	1360	1.70	1400	1.80	1435	1.95
1900	1180	1.20	1220	1.30	1260	1.40	1300	1.55	1340	1.65	1375	1.75	1415	1.90	1450	2.05
2000	1205	1.30	1245	1.40	1280	1.50	1320	1.65	1355	1.75	1395	1.90	1430	2.00	1465	2.15

**BLOWER DATA - BELT DRIVE**

**4 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (economizer, etc.) See page 29

2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g. 4 Ton Standard Efficiency (Down-Flow) THA048S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #2</b>											
1200	590	0.15	670	0.20	745	0.30	820	0.35	890	0.45	955	0.50	1020	0.60	1080	0.70
1300	630	0.20	700	0.25	770	0.30	840	0.40	910	0.45	970	0.55	1035	0.65	1090	0.75
1400	670	0.25	735	0.30	800	0.35	865	0.45	930	0.50	990	0.60	1050	0.70	1105	0.80
1500	705	0.30	765	0.35	830	0.40	890	0.50	950	0.55	1010	0.65	1070	0.75	1125	0.85
1600	745	0.35	800	0.40	860	0.50	920	0.55	975	0.65	1030	0.70	1085	0.80	1140	0.90
1700	785	0.40	840	0.50	895	0.55	945	0.60	1000	0.70	1055	0.80	1110	0.90	1160	1.00
1800	825	0.50	875	0.55	925	0.60	980	0.70	1030	0.80	1080	0.85	1130	0.95	1180	1.05
1900	865	0.55	915	0.65	960	0.70	1010	0.80	1060	0.85	1105	0.95	1155	1.05	1205	1.15
2000	910	0.65	950	0.70	995	0.80	1045	0.90	1090	0.95	1135	1.05	1180	1.15	1230	1.25

**0.90 to 1.60 in. w.g. 4 Ton Standard Efficiency (Down-Flow) THA048S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #6</b>															
	<b>Field</b>															
1200	1135	0.80	1185	0.90	1235	1.00	1285	1.15	1330	1.25	1375	1.35	1420	1.50	1460	1.60
1300	1145	0.85	1200	0.95	1250	1.05	1300	1.20	1345	1.30	1390	1.45	1435	1.55	1475	1.70
1400	1160	0.90	1215	1.00	1265	1.15	1310	1.25	1355	1.35	1400	1.50	1445	1.60	1485	1.75
1500	1175	0.95	1225	1.05	1275	1.20	1325	1.30	1370	1.45	1415	1.55	1460	1.70	1500	1.85
1600	1195	1.05	1245	1.15	1290	1.25	1340	1.40	1385	1.50	1430	1.65	1470	1.75	1510	1.90
1700	1210	1.10	1260	1.20	1305	1.35	1355	1.45	1400	1.60	1440	1.70	1485	1.85	1525	2.00
1800	1230	1.20	1275	1.30	1325	1.40	1370	1.55	1415	1.70	1455	1.80	1500	1.95	1540	2.10
1900	1250	1.25	1295	1.40	1340	1.50	1385	1.65	1430	1.75	1470	1.90	1515	2.05	1555	2.20
2000	1275	1.35	1320	1.50	1360	1.60	1405	1.75	1445	1.85	1490	2.00	1530	2.15	1570	2.30

**0.10 to 0.80 in. w.g. 4 Ton Standard Efficiency (Horizontal) THA048S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #2</b>											
1200	600	0.20	660	0.20	725	0.25	790	0.35	855	0.40	915	0.50	975	0.60	1030	0.70
1300	640	0.20	695	0.25	755	0.30	815	0.40	875	0.45	935	0.55	990	0.60	1045	0.70
1400	685	0.25	735	0.30	790	0.35	845	0.45	900	0.50	955	0.60	1005	0.65	1060	0.75
1500	725	0.35	770	0.35	820	0.40	870	0.50	925	0.55	975	0.65	1025	0.75	1075	0.80
1600	770	0.40	810	0.45	855	0.50	905	0.55	950	0.60	1000	0.70	1050	0.80	1095	0.90
1700	810	0.45	850	0.50	895	0.55	935	0.65	980	0.70	1030	0.80	1075	0.85	1120	0.95
1800	855	0.55	890	0.60	930	0.65	970	0.70	1015	0.80	1055	0.85	1100	0.95	1145	1.05
1900	900	0.65	935	0.70	970	0.75	1010	0.80	1050	0.90	1090	0.95	1130	1.05	1170	1.15
2000	940	0.75	975	0.80	1010	0.85	1045	0.90	1085	1.00	1120	1.05	1160	1.15	1195	1.25

**0.90 to 1.60 in. w.g. 4 Ton Standard Efficiency (Horizontal) THA048S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.0		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #6</b>															
1200	1080	0.75	1130	0.85	1180	1.00	1225	1.10	1265	1.20	1305	1.30	1345	1.40	1385	1.55
1300	1095	0.80	1145	0.90	1190	1.00	1235	1.15	1280	1.25	1320	1.35	1360	1.50	1400	1.60
1400	1110	0.85	1160	1.00	1205	1.10	1250	1.20	1295	1.30	1335	1.45	1375	1.55	1415	1.70
1500	1125	0.90	1175	1.05	1220	1.15	1265	1.25	1305	1.35	1350	1.50	1390	1.65	1430	1.75
1600	1145	1.00	1190	1.10	1235	1.20	1280	1.35	1320	1.45	1365	1.60	1405	1.70	1440	1.80
1700	1165	1.05	1210	1.15	1255	1.30	1295	1.40	1335	1.50	1380	1.65	1415	1.75	1455	1.90
1800	1185	1.15	1230	1.25	1270	1.35	1315	1.50	1355	1.60	1395	1.75	1430	1.85	1470	2.00
1900	1210	1.25	1250	1.35	1290	1.45	1330	1.55	1370	1.70	1410	1.80	1450	1.95	1485	2.10
2000	1235	1.35	1275	1.45	1315	1.55	1355	1.70	1390	1.80	1430	1.95	1465	2.05	1500	2.20



**BLOWER DATA - BELT DRIVE**

**5 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (economizer, etc.) See page 29

2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g. 5 Ton Basic Efficiency (Down-Flow) THA060B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>						<b>Low Static - Drive Kit #3</b>									
1600	705	0.30	765	0.35	825	0.40	880	0.50	935	0.55	990	0.60	1040	0.70	1090	0.75
1700	740	0.35	800	0.40	855	0.50	910	0.55	960	0.60	1010	0.70	1060	0.75	1110	0.85
1800	780	0.40	835	0.50	885	0.55	940	0.60	990	0.70	1035	0.75	1085	0.85	1130	0.90
1900	815	0.50	870	0.55	920	0.60	970	0.70	1015	0.75	1065	0.85	1110	0.90	1155	1.00
2000	855	0.55	905	0.60	950	0.70	1000	0.75	1045	0.85	1090	0.90	1135	1.00	1180	1.10
2100	890	0.65	940	0.70	985	0.80	1030	0.85	1075	0.95	1120	1.00	1160	1.10	1205	1.20
2200	930	0.70	975	0.80	1020	0.85	1065	0.95	1105	1.05	1145	1.10	1190	1.20	1230	1.30
2300	970	0.80	1010	0.90	1055	0.95	1095	1.05	1135	1.15	1175	1.20	1215	1.30	1255	1.40
2400	1005	0.90	1050	1.00	1090	1.10	1130	1.15	1170	1.25	1210	1.35	1245	1.45	1285	1.55

**0.90 to 1.60 in. w.g. 5 Ton Basic Efficiency (Down-Flow) THA060B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Low Static - Drive Kit #3</b>				<b>High Static - Drive Kit #7</b>											
1600	1135	0.85	1185	0.95	1230	1.00	1275	1.10	1315	1.20	1355	1.30	1400	1.40	1440	1.50
1700	1155	0.90	1200	1.00	1245	1.10	1290	1.20	1330	1.30	1370	1.35	1410	1.45	1450	1.60
1800	1175	1.00	1220	1.10	1265	1.15	1305	1.25	1345	1.35	1385	1.45	1425	1.55	1465	1.65
1900	1200	1.10	1240	1.15	1280	1.25	1325	1.35	1365	1.45	1400	1.55	1440	1.65	1480	1.75
2000	1220	1.15	1260	1.25	1300	1.35	1340	1.45	1380	1.55	1420	1.65	1455	1.75	1495	1.85
2100	1245	1.25	1285	1.35	1325	1.45	1360	1.55	1400	1.65	1440	1.75	1475	1.85	1510	1.95
2200	1270	1.40	1310	1.50	1345	1.55	1385	1.65	1420	1.75	1460	1.90	1495	2.00	1530	2.10
2300	1295	1.50	1335	1.60	1370	1.70	1405	1.80	1445	1.90	1480	2.00	1515	2.10	1550	2.20
2400	1320	1.60	1360	1.70	1395	1.80	1430	1.90	1465	2.05	1500	2.15	1535	2.25	1570	2.35

**0.10 to 0.80 in. w.g. 5 Ton Basic Efficiency (Horizontal) THA060B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>						<b>Low Static - Drive Kit #3</b>									
1600	735	0.35	780	0.40	825	0.45	875	0.50	925	0.55	975	0.65	1025	0.70	1070	0.80
1700	775	0.40	815	0.45	860	0.50	905	0.55	955	0.65	1000	0.70	1045	0.80	1090	0.85
1800	815	0.50	855	0.55	895	0.60	940	0.65	985	0.70	1025	0.80	1070	0.85	1115	0.95
1900	855	0.55	895	0.60	935	0.65	975	0.75	1015	0.80	1055	0.85	1095	0.95	1140	1.05
2000	895	0.65	935	0.70	970	0.75	1010	0.80	1045	0.90	1085	0.95	1125	1.05	1165	1.10
2100	940	0.75	970	0.80	1005	0.85	1045	0.90	1080	1.00	1115	1.05	1155	1.15	1190	1.20
2200	980	0.85	1010	0.90	1045	0.95	1080	1.05	1115	1.10	1150	1.20	1185	1.25	1220	1.35
2300	1020	0.95	1050	1.00	1085	1.10	1115	1.15	1150	1.20	1185	1.30	1215	1.35	1250	1.45
2400	1065	1.10	1095	1.15	1125	1.20	1155	1.30	1185	1.35	1215	1.45	1250	1.50	1280	1.60

**0.90 to 1.60 in. w.g. 5 Ton Basic Efficiency (Horizontal) THA060B**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Low Static - Drive Kit #3</b>						<b>High Static - Drive Kit #7</b>									
1600	1120	0.90	1165	1.00	1210	1.10	1255	1.20	1295	1.30	1340	1.40	1380	1.50	1420	1.65
1700	1135	0.95	1180	1.05	1225	1.15	1270	1.25	1310	1.35	1350	1.45	1390	1.60	1430	1.70
1800	1155	1.00	1200	1.10	1240	1.20	1285	1.30	1325	1.45	1365	1.55	1405	1.65	1440	1.75
1900	1180	1.10	1220	1.20	1260	1.30	1300	1.40	1340	1.50	1380	1.65	1415	1.75	1455	1.85
2000	1205	1.20	1245	1.30	1280	1.40	1320	1.50	1360	1.60	1395	1.70	1435	1.85	1470	1.95
2100	1230	1.30	1265	1.40	1305	1.50	1340	1.60	1380	1.70	1415	1.80	1450	1.95	1485	2.05
2200	1255	1.40	1290	1.50	1330	1.60	1365	1.70	1400	1.85	1435	1.95	1470	2.05	1505	2.15
2300	1285	1.55	1320	1.65	1355	1.75	1385	1.85	1420	1.95	1455	2.05	1490	2.20	1520	2.30
2400	1315	1.70	1345	1.75	1380	1.90	1415	2.00	1445	2.10	1480	2.20	1510	2.30	1545	2.45

**BLOWER DATA - BELT DRIVE**

**5 TON**

Blower tables include resistance for base unit with wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 29

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g. 5 Ton Standard Efficiency (Down-Flow) THA060S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>						<b>Low Static - Drive Kit #3</b>									
1600	675	0.30	730	0.35	785	0.40	835	0.45	885	0.50	935	0.60	985	0.65	1030	0.70
1700	710	0.35	760	0.40	815	0.45	860	0.50	910	0.60	960	0.65	1005	0.70	1050	0.80
1800	745	0.45	795	0.50	845	0.55	890	0.60	935	0.65	980	0.70	1025	0.80	1070	0.85
1900	780	0.50	830	0.55	875	0.60	920	0.65	965	0.75	1010	0.80	1050	0.85	1090	0.95
2000	820	0.60	865	0.65	905	0.70	950	0.75	990	0.80	1035	0.90	1075	0.95	1115	1.05
2100	855	0.65	900	0.70	940	0.80	980	0.85	1020	0.90	1060	1.00	1100	1.05	1140	1.15
2200	890	0.75	935	0.80	970	0.85	1010	0.95	1050	1.00	1090	1.10	1130	1.15	1165	1.25
2300	930	0.85	970	0.90	1005	1.00	1045	1.05	1080	1.10	1120	1.20	1155	1.25	1190	1.35
2400	965	0.95	1005	1.05	1040	1.10	1075	1.15	1115	1.25	1150	1.30	1185	1.40	1220	1.50

**0.90 to 1.60 in. w.g. 5 Ton Standard Efficiency (Down-Flow) THA060S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Low Static - Drive Kit #3</b>						<b>High Static - Drive Kit #7</b>									
1600	1075	0.80	1120	0.85	1160	0.95	1200	1.05	1240	1.10	1280	1.20	1320	1.30	1355	1.35
1700	1090	0.85	1135	0.95	1175	1.00	1215	1.10	1255	1.20	1295	1.30	1330	1.35	1365	1.45
1800	1110	0.95	1155	1.00	1195	1.10	1230	1.20	1270	1.25	1310	1.35	1345	1.45	1380	1.55
1900	1135	1.05	1170	1.10	1210	1.20	1250	1.25	1285	1.35	1325	1.45	1360	1.55	1395	1.65
2000	1155	1.10	1195	1.20	1230	1.30	1270	1.35	1305	1.45	1340	1.55	1375	1.65	1410	1.75
2100	1180	1.20	1215	1.30	1250	1.40	1290	1.45	1325	1.55	1360	1.65	1395	1.75	1425	1.85
2200	1200	1.30	1240	1.40	1275	1.50	1310	1.60	1345	1.70	1380	1.80	1410	1.85	1445	1.95
2300	1225	1.45	1260	1.50	1295	1.60	1330	1.70	1365	1.80	1400	1.90	1430	2.00	1465	2.10
2400	1255	1.55	1285	1.65	1320	1.75	1355	1.85	1385	1.90	1420	2.05	1450	2.10	1480	2.20

**0.10 to 0.80 in. w.g. 5 Ton Standard Efficiency (Horizontal) THA060S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field</b>		<b>Low Static - Drive Kit #3</b>													
1600	785	0.40	845	0.45	900	0.50	955	0.55	1010	0.65	1060	0.70	1110	0.80	1160	0.90
1700	825	0.45	880	0.50	935	0.60	990	0.65	1040	0.70	1090	0.80	1135	0.85	1185	0.95
1800	865	0.50	920	0.60	975	0.65	1020	0.75	1070	0.80	1120	0.90	1165	0.95	1210	1.05
1900	910	0.60	960	0.70	1010	0.75	1060	0.85	1105	0.90	1150	1.00	1195	1.05	1240	1.15
2000	950	0.70	1000	0.80	1050	0.85	1095	0.95	1140	1.00	1185	1.10	1225	1.15	1265	1.25
2100	995	0.80	1040	0.90	1085	0.95	1130	1.05	1175	1.15	1215	1.20	1260	1.30	1300	1.40
2200	1040	0.95	1085	1.00	1125	1.10	1170	1.15	1210	1.25	1250	1.35	1290	1.40	1330	1.50
2300	1080	1.05	1125	1.15	1165	1.20	1205	1.30	1245	1.40	1285	1.45	1325	1.55	1360	1.65
2400	1125	1.20	1165	1.25	1205	1.35	1245	1.45	1285	1.55	1320	1.60	1360	1.70	1395	1.80

**0.90 to 1.60 in. w.g. 5 Ton Standard Efficiency (Horizontal) THA060S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Drive Kit #3</b>		<b>High Static - Drive Kit #7</b>													
1600	1210	0.95	1255	1.05	1305	1.15	1350	1.30	1395	1.40	1440	1.55	1485	1.65	1530	1.80
1700	1230	1.05	1275	1.15	1320	1.25	1365	1.35	1410	1.45	1455	1.60	1495	1.70	1540	1.85
1800	1255	1.15	1300	1.25	1340	1.35	1385	1.45	1425	1.55	1470	1.70	1510	1.80	1550	1.95
1900	1280	1.25	1325	1.35	1365	1.45	1405	1.55	1445	1.65	1485	1.75	1525	1.90	1565	2.00
2000	1310	1.35	1350	1.45	1390	1.55	1430	1.65	1470	1.75	1505	1.85	1545	2.00	1585	2.15
2100	1340	1.50	1375	1.55	1415	1.65	1455	1.80	1490	1.90	1530	2.00	1565	2.10	1605	2.25
2200	1370	1.60	1405	1.70	1445	1.80	1480	1.90	1515	2.00	1555	2.15	1590	2.25	1625	2.40
2300	1400	1.75	1435	1.85	1470	1.95	1510	2.05	1545	2.20	1580	2.30	1615	2.40	1650	2.55
2400	1430	1.90	1465	2.00	1505	2.15	1535	2.20	1570	2.35	1605	2.45	1640	2.60	1675	2.70

**BLOWER DATA - BELT DRIVE**

**6 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (economizer, etc.) See page 29

2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.**

**6 Ton Standard Efficiency (Down-Flow)**

**THA072S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>							<b>Low Static - Drive Kit #4</b>								
1900	775	0.45	820	0.50	870	0.55	915	0.65	965	0.70	1010	0.75	1060	0.85	1105	0.90
2000	810	0.55	855	0.60	900	0.65	945	0.70	990	0.75	1035	0.85	1080	0.90	1125	1.00
2100	850	0.60	890	0.65	935	0.75	975	0.80	1020	0.85	1060	0.95	1105	1.00	1145	1.10
2200	885	0.70	925	0.75	965	0.80	1005	0.90	1045	0.95	1090	1.05	1130	1.10	1170	1.20
2300	920	0.80	960	0.85	1000	0.90	1035	1.00	1075	1.05	1115	1.15	1155	1.20	1195	1.30
2400	960	0.90	995	0.95	1030	1.05	1070	1.10	1105	1.15	1145	1.25	1180	1.30	1220	1.40
2500	995	1.00	1030	1.10	1065	1.15	1100	1.20	1135	1.30	1175	1.35	1210	1.45	1245	1.50
2600	1035	1.15	1065	1.20	1100	1.25	1135	1.35	1170	1.40	1205	1.50	1240	1.60	1275	1.65
2700	1070	1.30	1100	1.35	1135	1.40	1170	1.50	1200	1.55	1235	1.65	1265	1.70	1300	1.80
2800	1105	1.40	1140	1.50	1170	1.55	1200	1.65	1235	1.70	1265	1.80	1295	1.85	1330	1.95
2900	1145	1.60	1175	1.65	1205	1.70	1235	1.80	1265	1.85	1295	1.95	1330	2.05	1360	2.10

**0.90 to 1.60 in. w.g.**

**6 Ton Standard Efficiency (Down-Flow)**

**THA072S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Low Static - Kit #4</b>				<b>High Static - Drive Kit #8</b>											
1900	1150	1.00	1190	1.10	1235	1.20	1275	1.25	1315	1.35	1355	1.45	1395	1.55	1435	1.65
2000	1165	1.10	1210	1.15	1250	1.25	1290	1.35	1330	1.45	1370	1.55	1410	1.65	1445	1.75
2100	1190	1.15	1230	1.25	1270	1.35	1310	1.45	1350	1.55	1385	1.65	1425	1.75	1460	1.85
2200	1210	1.25	1250	1.35	1290	1.45	1325	1.55	1365	1.65	1400	1.75	1440	1.85	1475	1.95
2300	1235	1.40	1270	1.45	1310	1.55	1345	1.65	1385	1.75	1420	1.85	1455	1.95	1490	2.05
2400	1255	1.50	1295	1.60	1330	1.65	1365	1.75	1400	1.85	1440	2.00	1475	2.10	1505	2.20
2500	1280	1.60	1315	1.70	1355	1.80	1390	1.90	1425	2.00	1455	2.10	1490	2.20	1525	2.30
2600	1310	1.75	1340	1.85	1375	1.95	1410	2.05	1445	2.15	1480	2.25	1510	2.35	1545	2.45
2700	1335	1.90	1370	2.00	1400	2.10	1435	2.20	1465	2.30	1500	2.40	1530	2.50	1565	2.60
2800	1360	2.05	1395	2.15	1425	2.25	1460	2.35	1490	2.45	1520	2.55	1555	2.65	1585	2.80
2900	1390	2.20	1420	2.30	1450	2.40	1485	2.50	1515	2.60	1545	2.70	1575	2.85	1605	2.95

**BLOWER DATA - BELT DRIVE**

**6 TON**

Blower tables include resistance for base unit with wet indoor coil & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (economizer, etc.) See page 29
- 2 - Any field installed accessories air resistance (electric heat, duct resistance, diffuser, etc.) See page 29

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.**

**6 Ton Standard Efficiency (Horizontal)**

**THA072S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>Field Furnished</b>				<b>Low Static - Drive Kit #4</b>											
1900	905	0.60	955	0.65	1000	0.70	1045	0.75	1090	0.85	1135	0.90	1175	0.95	1215	1.05
2000	945	0.65	995	0.75	1040	0.80	1085	0.85	1125	0.95	1170	1.00	1210	1.05	1250	1.15
2100	990	0.75	1035	0.85	1080	0.90	1120	0.95	1160	1.05	1205	1.10	1240	1.20	1280	1.25
2200	1030	0.85	1075	0.95	1115	1.00	1160	1.10	1200	1.15	1235	1.25	1275	1.30	1310	1.40
2300	1075	1.00	1115	1.05	1155	1.15	1195	1.20	1235	1.30	1275	1.35	1310	1.45	1345	1.50
2400	1115	1.10	1155	1.20	1195	1.25	1235	1.35	1275	1.45	1310	1.50	1345	1.60	1380	1.70
2500	1160	1.25	1200	1.35	1235	1.40	1275	1.50	1310	1.60	1345	1.65	1380	1.75	1415	1.85
2600	1205	1.40	1240	1.50	1275	1.55	1315	1.65	1350	1.75	1385	1.85	1415	1.90	1450	2.00
2700	1245	1.55	1285	1.65	1320	1.75	1355	1.85	1390	1.95	1420	2.00	1455	2.10	1485	2.20
2800	1290	1.75	1325	1.85	1360	1.95	1395	2.00	1425	2.10	1460	2.20	1490	2.30	1520	2.40
2900	1335	1.95	1365	2.00	1400	2.10	1435	2.20	1465	2.30	1500	2.40	1530	2.50	1560	2.60

**0.90 to 1.60 in. w.g.**

**6 Ton Standard Efficiency (Horizontal)**

**THA072S**

Air Volume (cfm)	External Static (in.w.g.)															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	<b>High Static - Drive Kit #8</b>															
1900	1255	1.10	1295	1.15	1335	1.25	1370	1.30	1405	1.40	1440	1.45	1475	1.55	1510	1.65
2000	1285	1.20	1325	1.30	1360	1.35	1395	1.45	1430	1.50	1465	1.60	1500	1.70	1530	1.75
2100	1315	1.35	1355	1.40	1390	1.50	1425	1.55	1460	1.65	1490	1.70	1525	1.80	1555	1.90
2200	1350	1.45	1385	1.55	1420	1.65	1455	1.70	1485	1.80	1520	1.85	1550	1.95	1585	2.05
2300	1380	1.60	1415	1.70	1450	1.75	1480	1.85	1515	1.95	1545	2.00	1580	2.10	1610	2.20
2400	1415	1.75	1450	1.85	1480	1.90	1515	2.00	1545	2.10	1575	2.20	1605	2.25	1635	2.35
2500	1450	1.95	1480	2.00	1515	2.10	1545	2.20	1575	2.25	1605	2.35	1635	2.45	1665	2.55
2600	1480	2.10	1515	2.20	1545	2.25	1575	2.35	1605	2.45	1635	2.55	1665	2.65	1695	2.75
2700	1520	2.30	1550	2.40	1580	2.45	1610	2.55	1640	2.65	1670	2.75	1695	2.85	1725	2.95
2800	1555	2.50	1585	2.60	1615	2.70	1645	2.80	1670	2.85	1700	2.95	1730	3.05	1760	3.20
2900	1590	2.70	1620	2.80	1650	2.90	1675	3.00	1705	3.10	1735	3.20	1760	3.30	1790	3.40

**FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS**

Motor hp		RPM Range							
Nominal	Maximum	Drive 1	Drive 2	Drive 3	Drive 4	Drive 5	Drive 6	Drive 7	Drive 8
1.5	1.7	673 - 1010	745 - 1117	833 - 1250	968 - 1340	897 - 1346	1071 - 1429	1212 - 1548	1193 - 1591
2	2.3								

\*Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

## BLOWER DATA

### POWER EXHAUST FANS PERFORMANCE

Return Air System Static Pressure in. w.g.	Air Volume Exhausted - cfm											
	T1PWRE10A						T1PWRE10N					
	208V			230V, 460V and 575V			208V			230V, 460V and 575V		
	Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
0	1290	1300	1320	1300	1305	1295	3545	3915	4230	3880	4135	4340
0.1	1045	1055	1055	1040	1050	1055	2880	3215	3580	3255	3550	3755
0.2	805	805	815	805	810	810	2290	2665	3055	2710	3010	3240
0.3	580	580	600	595	590	585	1735	2175	2605	2200	2500	2770
0.4	390	405	400	405	400	410	1165	1660	2175	1685	2010	2325
0.5	245	315	215	240	255	300	530	1045	1710	1120	1510	1885
0.6	155	340	35	90	165	290	---	250	1160	470	990	1420
0.7	145	515	---	---	140	400	---	---	470	---	430	915

### OPTIONS / ACCESSORIES AIR RESISTANCE - in. w.g.

Air Volume cfm	Economizer	Electric Heat
800	0.04	0.01
1000	0.04	0.03
1200	0.04	0.06
1400	0.04	0.09
1600	0.04	0.12
1800	0.05	0.15
2000	0.05	0.18
2200	0.05	0.20
2400	0.05	0.22
2600	0.06	0.24
2800	0.06	0.26
3000	0.06	0.28

### CEILING DIFFUSERS AIR RESISTANCE (in. w.g.)

Air Volume cfm	RTD9-65 Step-Down Diffuser			FD9-65 Flush Diffuser	RTD11-95 Step-Down Diffuser			FD11-95 Flush Diffuser
	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open		2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	
800	0.15	0.13	0.11	0.11	---	---	---	---
1000	0.19	0.16	0.14	0.14	---	---	---	---
1200	0.25	0.20	0.17	0.17	---	---	---	---
1400	0.33	0.26	0.20	0.20	---	---	---	---
1600	0.43	0.32	0.20	0.24	---	---	---	---
1800	0.56	0.40	0.30	0.30	0.13	0.11	0.09	0.09
2000	0.73	0.50	0.36	0.36	0.15	0.13	0.11	0.10
2200	0.95	0.63	0.44	0.44	0.18	0.15	0.12	0.12
2400	---	----	---	---	0.21	0.18	0.15	0.14
2600	---	----	---	---	0.24	0.21	0.18	0.17
2800	---	----	---	---	0.27	0.24	0.21	0.20
3000	---	----	---	---	0.32	0.29	0.25	0.25

### CEILING DIFFUSER AIR THROW DATA

Air Volume - cfm	<sup>1</sup> Effective Throw - ft.	
	RTD9-65	FD9-65
800	10 - 17	14 - 18
1000	10 - 17	15 - 20
1200	11 - 18	16 - 22
1400	12 - 19	17 - 24
1600	12 - 20	18 - 25
1800	13 - 21	20 - 28
2000	14 - 23	21 - 29
2200	16 - 25	22 - 30
Model No.	RTD11-95	FD11-95
2600	24 - 29	19 - 24
2800	25 - 30	20 - 28
3000	27 - 33	21 - 29

<sup>1</sup> Effective throw based on terminal velocities of 75 ft. per minute.

## OUTDOOR SOUND DATA

1 Unit Model No.	Operating Mode	Octave Band Sound Power Levels dBA, re 10 <sup>-12</sup> Watts Center Frequency - HZ							Sound Rating Number (dB)
		125	250	500	1000	2000	4000	8000	
024, 030, 036 and 048	Cooling	63	66	70	71	68	62	53	75
	Heating	63	66	71	70	68	62	54	75
060 and 072	Cooling	67	72	77	76	73	68	61	82
	Heating	70	72	77	76	73	69	60	82

NOTE - The octave sound power data shown does not include tonal correction.

<sup>1</sup> Tested according to ARI Standard 270-95 test conditions and ANSI Standard S1.32-1981.

## ELECTRICAL/ELECTRIC HEAT DATA

## 2 - 2.5 TON

2 AND 2.5 TON STANDARD EFFICIENCY		THA024S	THA030S
Voltage - 60hz		208/230V-1ph	208/230V-1ph
Compressor	Rated Load Amps	10.3	12.2
	Locked Rotor Amps	56	67
Outdoor Fan Motor	Full Load Amps	1.7	1.7
	Locked Rotor Amps	3.1	3.1
Service Outlet 115V GFI		15	15
Indoor Blower Motor	Horsepower	.25	.25
	Rated Load Amps	1.7	1.7
	Locked Rotor Amps	2.2	2.2
<sup>1</sup> Maximum Overcurrent Protection	Unit Only	25	30
	7.5 kW	60	60
	10 kW	70	80
<sup>2</sup> Minimum Circuit Ampacity	Unit Only	17	19
	7.5 kW	56	58
	10 kW	69	71
Unit Fuse Block		28W68	28W69
Disconnect Kit	Hinged - 0-10 kW	20W21	20W21
	Standard Access - 0-10 kW	20W15	20W15

**ELECTRICAL/ELECTRIC HEAT DATA**

**3 TON**

**3 TON BASIC EFFICIENCY**

**THA036B**

Voltage - 60hz		208/230V - 3ph			460V-3ph		
<b>Compressor</b>	Rated Load Amps	10.3			5.1		
	Locked Rotor Amps	77.0			39.0		
<b>Outdoor Fan Motor</b>	Full Load Amps	1.7			1.1		
	Locked Rotor Amps	3.1			2.2		
<b>Power Exhaust Fan</b>	Horsepower	.75			.75		
	Full Load Amps	5.0			2.2		
	Locked Rotor Amps	7.8			3.4		
<b>Service Outlet 115V GFI</b>		15			15		
<b>Indoor Blower Motor</b>	Horsepower	<b>.5</b>	<b>1.5</b>	<b>2</b>	<b>.5</b>	<b>1.5</b>	<b>2</b>
	Rated Load Amps	3.1	5.7	7.5	2.2	2.8	3.4
	Locked Rotor Amps	6.8	40	46.9	5.2	20	20.4
<b><sup>1</sup> Minimum Circuit Ampacity</b>	Unit Only	18	21	23	10	11	11
	Unit with exhaust fan and electric heat <b>0 kW</b>	23	26	28	12	13	14
	<b>7.5 kW</b>	46	48	50	24	24	25
	<b>15 kW</b>	68	71	73	35	35	36
<b><sup>2</sup> Maximum Overcurrent Protection</b>	Unit Only	25	30	30	15	15	15
	Unit with exhaust fan and electric heat <b>0 kW</b>	30	35	35	15	15	15
	<b>7.5 kW</b>	50	50	50	25	25	25
	<b>15 kW</b>	70	80	80	35	35	40
<b>Unit Fuse Block</b>	Unit Only	<b>18W00</b>	<b>18W01</b>	<b>18W01</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>
	with exhaust fan	<b>18W01</b>	<b>18W02</b>	<b>18W02</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>
<b>Disconnect</b>	Standard Access Panel	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>
	Hinged Access	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>

**3 TON STANDARD EFFICIENCY**

**THA036S**

Voltage - 60hz		208/230V-1ph			208/230V-3ph			460V-3ph			575V-3ph		
<b>Compressor</b>	Rated Load Amps	13.5			9.6			4.5			3.6		
	Locked Rotor Amps	73.0			63.0			31.0			24.8		
<b>Outdoor Fan Motor</b>	Full Load Amps	1.7			1.7			1.1			0.7		
	Locked Rotor Amps	3.1			3.1			2.2			1.3		
<b>Power Exhaust Fan</b>	Horsepower	3/4			3/4			3/4			3/4		
	Full Load Amps	5.0			5.0			2.2			1.5		
	Locked Rotor Amps	7.8			7.8			3.4			2.9		
<b>Service Outlet 115V GFI</b>		15			15			15			15		
<b>Indoor Blower Motor</b>	Horsepower	<b>.5</b>	<b>1.5</b>	<b>.5</b>	<b>1.5</b>	<b>2</b>	<b>.5</b>	<b>1.5</b>	<b>2</b>	<b>.5</b>	<b>1.5</b>	<b>2</b>	
	Rated Load Amps	3.1	11.5	3.1	5.7	7.5	1.5	2.8	3.4	1.5	2.4	2.7	
	Locked Rotor Amps	6.8	55	6.8	40	46.9	3.8	20	20.4	3.8	15	16.2	
<b><sup>1</sup> Maximum Overcurrent Protection</b>	Unit Only	35	40	25	25	30	15	15	15	15	15	15	
	Unit with exhaust fan and electric heat <b>0 kW</b>	40	45	30	30	35	15	15	15	15	15	15	
	<b>7.5 kW</b>	70	80	45	50	50	25	25	25	20	20	20	
	<b>15 kW</b>	110	125	70	70	80	35	35	35	30	30	30	
<b><sup>2</sup> Minimum Circuit Ampacity</b>	Unit Only	22	31	17	20	22	9	10	11	7	8	8	
	Unit with exhaust fan and electric heat <b>0 kW</b>	27	36	22	25	27	11	12	13	9	10	10	
	<b>7.5 kW</b>	66	75	45	47	49	22	23	24	18	19	19	
	<b>15 kW</b>	105	114	67	70	72	33	35	35	27	28	28	
<b>Unit Fuse Block</b>	Unit Only	<b>17W94</b>	<b>17W95</b>	<b>18W00</b>	<b>18W00</b>	<b>18W01</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	
	with exhaust fan	<b>17W95</b>	<b>17W96</b>	<b>18W01</b>	<b>18W01</b>	<b>18W02</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	<b>18W06</b>	
<b>Disconnect</b>	Standard Access Panel	<b>0-7.5 kW</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	
		<b>15 kW</b>	<b>20W16</b>	<b>20W16</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	<b>20W15</b>	
	Hinged Access Panel	<b>0-7.5 kW</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	
		<b>15 kW</b>	<b>20W22</b>	<b>20W22</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	<b>20W21</b>	

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>1</sup> HACR type breaker or fuse.

<sup>2</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL/ELECTRIC HEAT DATA**

**4 TON**

**4 TON BASIC EFFICIENCY**

**THA048B**

Voltage - 60hz		208/230V - 3ph			460V-3ph			
<b>Compressor</b>	Rated Load Amps	14.7			7.1			
	Locked Rotor Amps	91.0			50.0			
<b>Outdoor Fan Motor</b>	Full Load Amps	1.7			1.1			
	Locked Rotor Amps	3.1			2.2			
<b>Power Exhaust Fan</b>	Horsepower	.75			.75			
	Full Load Amps	5.0			2.2			
	Locked Rotor Amps	7.8			3.4			
<b>Service Outlet 115V GFI</b>		15			15			
<b>Indoor Blower Motor</b>	Horsepower	.5	1.5	2	.5	1.5	2	
	Rated Load Amps	3.1	5.7	7.5	2.2	2.8	3.4	
	Locked Rotor Amps	6.8	40	46.9	5.2	20	20.4	
<b>1 Maximum Overcurrent Protection</b>	Unit Only	35	40	40	15	15	20	
	Unit with exhaust fan and electric heat	0 kW	40	45	45	20	20	20
	7.5 kW	60	60	60	30	30	30	
	15 kW	80	80	80	40	40	40	
<b>2 Minimum Circuit Ampacity</b>	Unit Only	24	26	28	13	13	14	
	Unit with exhaust fan and electric heat	0 kW	29	31	33	15	15	16
	7.5 kW	51	54	56	26	27	27	
	15 kW	74	76	78	37	38	39	
<b>Unit Fuse Block</b>	Unit Only	18W02	18W03	18W03	18W06	18W06	18W07	
	with exhaust fan	18W03	18W04	18W04	18W07	18W07	18W07	
<b>Disconnect</b>	Standard Access Panel	20W15	20W15	20W15	20W15	20W15	20W15	
	Hinged Access	20W21	20W21	20W21	20W21	20W21	20W21	

**4 TON STANDARD EFFICIENCY**

**THA048S**

Voltage - 60hz		208/230V-1ph			208/230V-3ph			460V-3ph			575V-3ph		
<b>Compressor</b>	Rated Load Amps	18.3			12.4			6.4			4.8		
	Locked Rotor Amps	109.0			88.0			44.0			34.0		
<b>Outdoor Fan Motor</b>	Full Load Amps	1.7			1.7			1.1			0.7		
	Locked Rotor Amps	3.1			3.1			2.2			1.3		
<b>Power Exhaust Fan</b>	Horsepower	.75			.75			.75			.75		
	Full Load Amps	5.0			5.0			2.2			1.5		
	Locked Rotor Amps	7.8			7.8			3.4			2.9		
<b>Service Outlet 115V GFI</b>		15			15			15			15		
<b>Indoor Blower Motor</b>	Horsepower	.5	1.5	.5	1.5	2	.5	1.5	2	.5	1.5	2	
	Rated Load Amps	3.1	11.5	3.1	5.7	7.5	1.5	2.8	3.4	1.5	2.4	2.7	
	Locked Rotor Amps	6.8	55	6.8	40	46.9	3.8	20	20.4	3.8	15	16.2	
<b>1 Maximum Overcurrent Protection</b>	Unit Only	45	50	30	35	35	15	15	15	15	15	15	
	Unit with exhaust fan and electric heat	0 kW	50	50	35	40	40	15	20	20	15	15	
	7.5 kW	80	90	50	60	60	25	30	30	20	20	20	
	15 kW	125	125	80	80	80	40	40	40	30	30	30	
<b>2 Minimum Circuit Ampacity</b>	Unit Only	28	37	21	23	25	11	12	13	9	10	10	
	Unit with exhaust fan and electric heat	0 kW	33	42	26	28	30	13	15	15	10	11	
	7.5 kW	72	81	48	51	53	25	26	26	19	20	20	
	15 kW	111	120	71	74	75	36	37	38	28	29	29	
<b>Unit Fuse Block</b>	Unit Only	17W96	17W97	18W01	18W02	18W02	18W06	18W06	18W06	18W06	18W06	18W06	
	with exhaust fan	17W97	17W97	18W02	18W03	18W03	18W06	18W07	18W07	18W06	18W06	18W06	
<b>Disconnect</b>	Standard Access Panel	0-7.5 kW	20W15	20W15	20W15	20W15	20W15	20W15	20W15	20W15	20W15	20W15	
		15 kW	20W16	20W16	20W15	20W15	20W15	20W15	20W15	20W15	20W15	20W15	
	Hinged Access Panel	0-7.5 kW	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21	
		15 kW	20W22	20W22	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21	

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>1</sup> HACR type breaker or fuse.

<sup>2</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.



**ELECTRICAL/ELECTRIC HEAT DATA**

**5 TON**

**5 TON BASIC EFFICIENCY**

**THA060B**

Voltage - 60hz		208/230V - 3ph			460V-3ph			
<b>Compressor</b>	Rated Load Amps	18.6			9.0			
	Locked Rotor Amps	128.0			63.0			
<b>Outdoor Fan Motor</b>	Full Load Amps	2.4			1.3			
	Locked Rotor Amps	4.7			2.4			
<b>Power Exhaust Fan</b>	Horsepower	.75			.75			
	Full Load Amps	5.0			2.2			
	Locked Rotor Amps	7.8			3.4			
<b>Service Outlet 115V GFI</b>		15			15			
<b>Indoor Blower Motor</b>	Horsepower	.75	1.5	2	.75	1.5	2	
	Rated Load Amps	4.2	5.7	7.5	2.2	2.8	3.4	
	Locked Rotor Amps	9.6	40	46.9	5.2	20	20.4	
<b><sup>1</sup> Maximum Overcurrent Protection</b>	Unit Only	45	45	50	20	20	20	
	Unit with exhaust fan and electric heat	0 kW	50	50	50	25	25	25
		7.5 kW	70	70	70	30	35	35
		15 kW	80	90	90	40	45	45
		22.5 kW	110	110	110	60	60	60
<b><sup>2</sup> Minimum Circuit Ampacity</b>	Unit Only	30	32	34	15	16	16	
	Unit with exhaust fan and electric heat	0 kW	35	37	39	17	18	19
		7.5 kW	58	59	61	29	29	30
		15 kW	80	82	84	40	41	41
		22.5 kW	103	104	106	51	52	53
<b>Unit Fuse Block</b>	Unit Only	18W04	18W04	18W05	18W07	18W07	18W07	
	with exhaust fan	18W05	18W05	18W05	18W08	18W08	18W08	
<b>Disconnect</b>	Standard Access Panel	0-15kW	20W15	20W15	20W15	20W15	20W15	
		22.5 kW	20W16	20W16	20W16	20W15	20W15	
	Hinged Access Panel	0-15kW	20W21	20W21	20W21	20W21	20W21	
		22.5 kW	20W22	20W22	20W22	20W21	20W21	

**5 TON STANDARD EFFICIENCY**

**THA060S**

Voltage - 60hz		208/230V-1ph	208/230V-3ph		460V-3ph		575V-3ph		
<b>Compressor</b>	Rated Load Amps	25.0	17.3		6.7		5.8		
	Locked Rotor Amps	148.0	123.0		49.5		40.0		
<b>Outdoor Fan Motor</b>	Full Load Amps	2.4	2.4		1.3		1.0		
	Locked Rotor Amps	4.7	4.7		2.4		1.9		
<b>Power Exhaust Fan</b>	Horsepower	.75	.75		.75		.75		
	Full Load Amps	5.0	5.0		2.2		1.5		
	Locked Rotor Amps	7.8	7.8		3.4		2.9		
<b>Service Outlet 115V GFI</b>		15	15		15		15		
<b>Indoor Blower Motor</b>	Horsepower	1.5	1.5	2	1.5	2	1.5	2	
	Rated Load Amps	11.5	5.7	7.5	2.8	3.4	2.4	2.7	
	Locked Rotor Amps	55	40	46.9	20	20.4	15	16.2	
<b><sup>1</sup> Maximum Overcurrent Protection</b>	Unit Only	70	45	45	15	15	15	15	
	Unit with exhaust fan and electric heat	0 kW	70	50	50	20	20	15	15
		7.5 kW	100	70	70	30	30	25	25
		15 kW	150	80	90	40	40	35	35
		22.5 kW	175	110	110	50	50	40	40
<b><sup>2</sup> Minimum Circuit Ampacity</b>	Unit Only	46	30	32	13	14	11	11	
	Unit with exhaust fan and electric heat	0 kW	51	35	37	15	16	13	13
		7.5 kW	90	58	60	26	27	22	22
		15 kW	129	80	82	38	38	31	31
		22.5 kW	168	103	105	49	50	40	40
<b>Unit Fuse Block</b>	Unit Only	17W99	18W04	18W04	18W06	18W06	18W06	18W06	
	with exhaust fan	17W99	18W05	18W05	18W07	18W07	18W06	18W06	
<b>Disconnect</b>	Standard Access Panel	7.5-15kW	20W19	20W18	20W18	20W18	20W18	20W18	
		22.5 kW	N/A	20W19	20W19	20W18	20W18	20W18	
	Hinged Access Panel	7.5-15kW	20W25	20W24	20W24	20W24	20W24	20W24	
		22.5 kW	N/A	20W25	20W25	20W24	20W24	20W24	

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>1</sup> HACR type breaker or fuse.

<sup>2</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL/ELECTRIC HEAT DATA**

**6 TON**

**6 TON STANDARD EFFICIENCY**

**THA072S**

Voltage - 60hz		208/230V-3ph		460V-3ph		575V-3ph		
<b>Compressor</b>	Rated Load Amps	18.6		9.0		7.4		
	Locked Rotor Amps	156.0		75.0		54.0		
<b>Outdoor Fan Motor</b>	Full Load Amps	2.4		1.3		1.0		
	Locked Rotor Amps	4.7		2.4		1.9		
<b>Power Exhaust Fan</b>	Horsepower	.75		.75		.75		
	Full Load Amps	5.0		2.2		1.5		
	Locked Rotor Amps	7.8		3.4		2.9		
<b>Service Outlet 115V GFI</b>		15		15		15		
<b>Indoor Blower Motor</b>	Horsepower	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>2</b>	<b>1.5</b>	<b>2</b>	
	Rated Load Amps	5.7	7.5	2.8	3.4	2.4	2.7	
	Locked Rotor Amps	40	46.9	20	20.4	15	16.2	
<b><sup>1</sup> Maximum Overcurrent Protection</b>	Unit Only	50	50	20	25	20	20	
	Unit with exhaust fan and electric heat	<b>0 kW</b>	50	50	25	25	20	20
	<b>7.5 kW</b>	70	70	35	35	25	25	
	<b>15 kW</b>	90	90	45	45	35	35	
	<b>22.5 kW</b>	110	110	60	60	45	45	
	<b>30 kW</b>	150	150	70	70	60	60	
<b><sup>2</sup> Minimum Circuit Ampacity</b>	Unit Only	32	34	16	16	13	13	
	Unit with exhaust fan and electric heat	<b>0 kW</b>	37	39	18	19	15	15
	<b>7.5 kW</b>	59	61	29	30	24	24	
	<b>15 kW</b>	82	84	41	41	33	33	
	<b>22.5 kW</b>	105	106	52	52	42	42	
	<b>30 kW</b>	127	129	63	64	51	51	
<b><sup>3</sup> Unit Fuse Block</b>	Unit Only	<b>18W05</b>	<b>18W05</b>	<b>18W07</b>	<b>18W08</b>	<b>18W07</b>	<b>18W07</b>	
	Unit with exhaust fan	<b>18W05</b>	<b>18W05</b>	<b>18W08</b>	<b>18W08</b>	<b>18W07</b>	<b>18W07</b>	
<b>Disconnect</b>	Standard Access Panel	<b>0-15kW</b>	<b>20W18</b>	<b>20W18</b>	<b>20W18</b>	<b>20W18</b>	<b>20W18</b>	
		<b>22.5-30kW</b>	<b>20W19</b>	<b>20W19</b>	<b>20W18</b>	<b>20W18</b>	<b>20W18</b>	
	Hinged Access Panel	<b>0-15kW</b>	<b>20W24</b>	<b>20W24</b>	<b>20W24</b>	<b>20W24</b>	<b>20W24</b>	
		<b>22.5-30kW</b>	<b>20W25</b>	<b>20W25</b>	<b>20W24</b>	<b>20W24</b>	<b>20W24</b>	

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>1</sup> HACR type breaker or fuse.

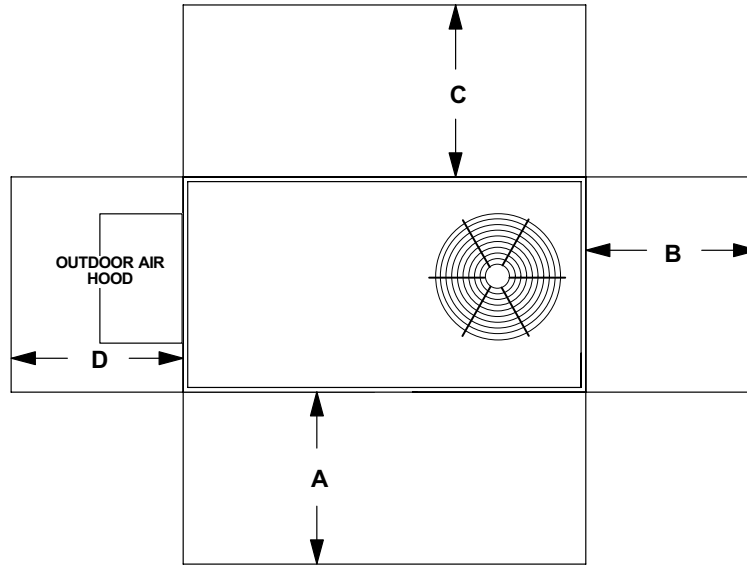
<sup>2</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>3</sup> Only used with electric heat.

**ELECTRIC HEAT CAPACITIES**

Input Voltage	7.5 kW			10 kW			15 kW			22.5 kW			30 kW		
	No of Steps	kW input	Btuh Output	No of Steps	kW input	Btuh Output	No of Steps	kW input	Btuh Output	No of Steps	kW input	Btuh Output	No of Steps	kW input	Btuh Output
208	1	5.6	19,200	1	7.5	25,600	1	11.2	38,200	1	16.9	57,700	1	22.5	76,800
220	1	6.3	21,500	1	8.4	28,700	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
230	1	6.9	23,500	1	9.2	31,400	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
240	1	7.5	25,600	1	10.0	34,200	1	15.0	51,200	1	22.5	76,800	1	30.0	102,400
440	1	6.3	21,500	---	---	---	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
460	1	6.9	23,500	---	---	---	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
480	1	7.5	25,600	---	---	---	1	15.0	51,200	1	22.5	76,800	1	30.0	102,400
550	1	6.3	21,500	---	---	---	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
575	1	6.9	23,500	---	---	---	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
600	1	7.5	25,600	---	---	---	1	15.0	51,200	1	22.5	76,800	1	30.0	102,400

**UNIT CLEARANCES - INCHES (MM)**



<sup>1</sup> Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
<b>Service Clearance</b>	36	914	36	914	36	934	36	914	<b>Unobstructed</b>
<b>Minimum Operation Clearance</b>	36	914	36	914	36	914	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

<sup>1</sup> **Service Clearance** - Required for removal of serviceable parts.

**Minimum Operation Clearance** - Required clearance for proper unit operation.

## WEIGHT DATA

Model Number	Net				Shipping			
	Base		Max.		Base		Max.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
024S	537	244	649	294	597	271	718	326
030S	539	244	651	295	599	272	720	327
036B	497	225	609	276	557	252	678	308
036S	544	247	656	298	604	273	725	329
048B	511	232	623	283	571	259	692	314
048S	566	257	678	308	626	284	747	339
060B	552	250	668	303	612	278	737	334
060S	671	304	774	351	731	332	846	384
072S	676	307	779	353	736	334	851	386

Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed (Economizer, etc.)

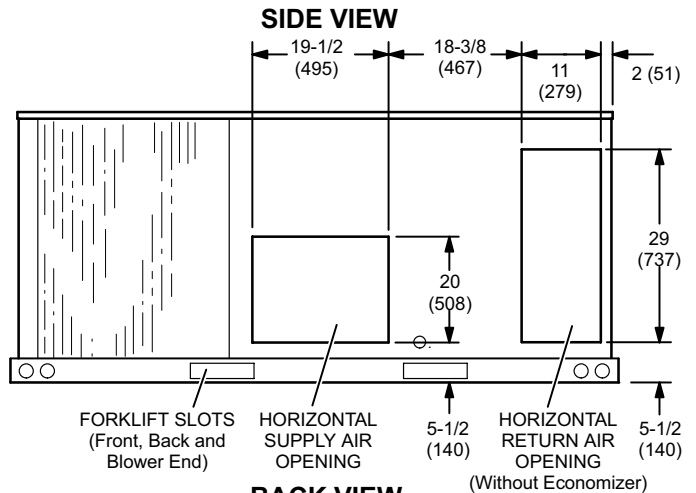
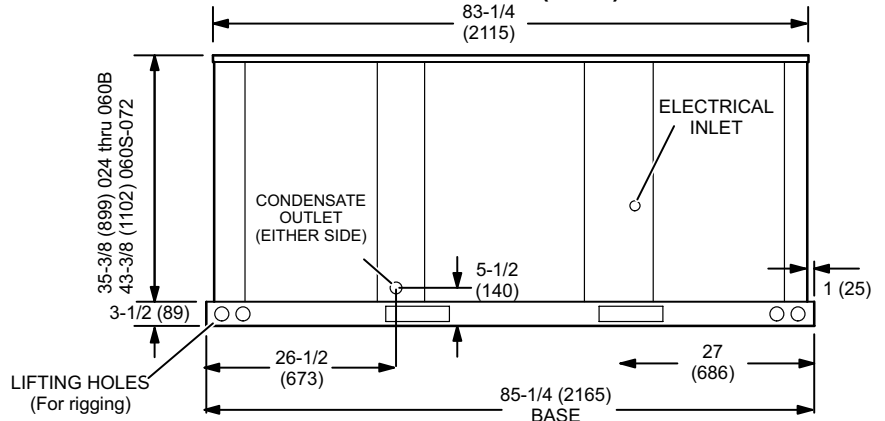
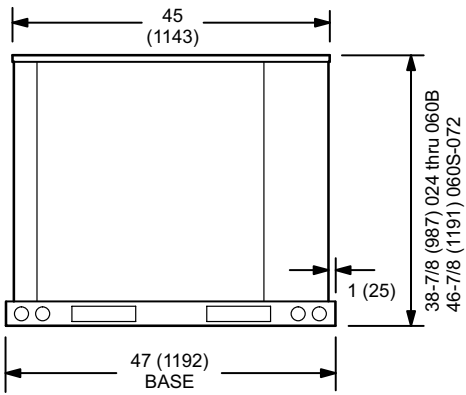
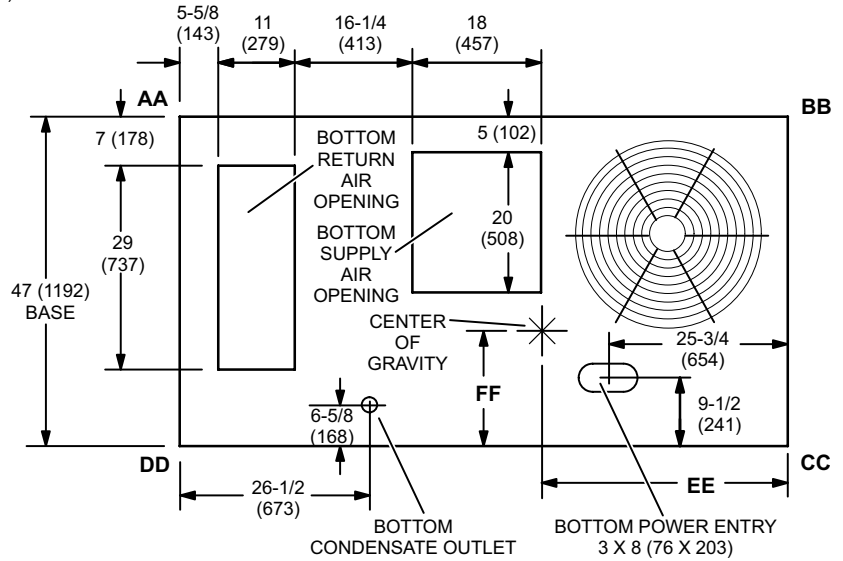
## OPTIONS / ACCESSORIES

		Shipping Weights	
		lbs.	kg
<b>ECONOMIZER / OUTDOOR AIR</b>			
<b>Economizer</b>			
Economizer	T1ECON30A-1	123	56
	T1ECON30N-1	142	64
<b>OUTDOOR AIR</b>			
<b>Outdoor Air Dampers</b>			
Outdoor Air Damper Motorized Kit	T1DAMP11A-1	25	12
	T1DAMP11N-1	29	14
Damper Section Manual	T1DAMP21AN1	18	9
<b>Power Exhaust</b>			
Standard Static	T1PWRE10A-1	35	17
	T1PWRE10N-1	39	19
<b>ELECTRIC HEAT</b>			
Electric Heat	7.5 kW - T1EH0075AN1	31	14
	10 kW - T1EH0100AN1	31	14
	15 kW - T1EH0150AN1	31	14
	22.5 kW - T1EH0225AN1	35	16
	30 kW - T1EH0300N-1	35	16
<b>ROOF CURBS - DOWN-FLOW</b>			
<b>Cliplock 1000</b>			
8 in. height	T1CURB23AN1	78	35
14 in. height	T1CURB20AN1	96	44
18 in. height	T1CURB21AN1	108	49
24 in. height	T1CURB22AN1	126	57
<b>Standard</b>			
14 in. height	T1CURB10AN1	96	44
<b>Hinged</b>			
8 in. height	T1CURB30AN1	78	35
18 in. height	T1CURB32AN1	108	49
24 in. height	T1CURB33AN1	126	57
<b>CEILING DIFFUSERS</b>			
Step-Down	RTD9-65	67	30
	RTD11-95	88	40
Flush	FD9-65	37	17
	FD11-95	75	34
Transitions (Supply and Return)	T1TRAN10AN1	22	10
	T1TRAN20N-1	21	10

# DIMENSIONS - INCHES (MM)

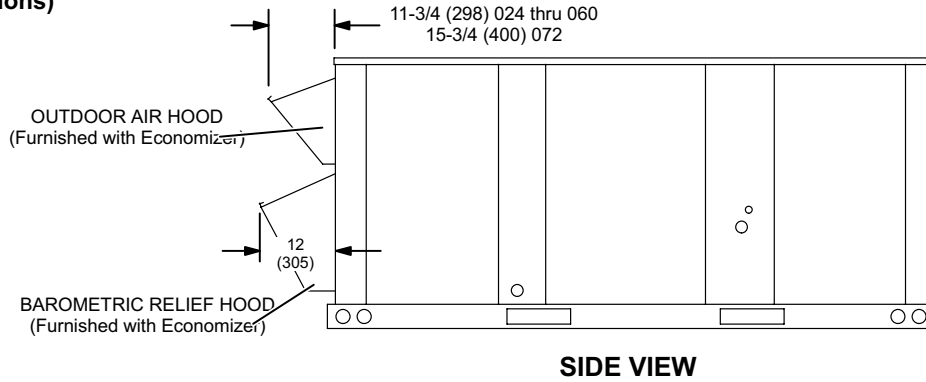
Model No.	CORNER WEIGHTS								CENTER OF GRAVITY															
	AA		BB		CC		DD		EE		FF		FF											
	Base lbs.	Max. kg	Base lbs.	Max. kg	Base lbs.	Max. kg	Base lbs.	Max. kg	Base in.	Max. mm	Base in.	Max. mm	Base in.	Max. mm										
024	93	42	117	53	113	51	132	60	182	83	213	97	150	68	188	85	38-1/2	978	40	1016	18	457	18	457
030	93	42	117	53	113	51	132	60	182	83	213	97	150	68	188	85	38-1/2	978	40	1016	18	457	18	457
036	94	43	118	54	114	52	133	60	184	83	215	98	152	69	190	86	38-1/2	978	40	1016	18	457	18	457
048	98	44	122	55	119	54	138	63	192	87	222	101	158	72	196	89	38-1/2	978	40	1016	18	457	18	457
060	116	53	139	63	141	64	157	71	227	103	253	115	187	85	224	102	38-1/2	978	40	1016	18	457	18	457
072	117	53	140	64	142	64	158	72	229	104	255	116	188	85	225	102	38-1/2	978	40	1016	18	457	18	457

Base Unit - The unit with standard heat exchanger NO OPTIONS.  
 Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, etc.)

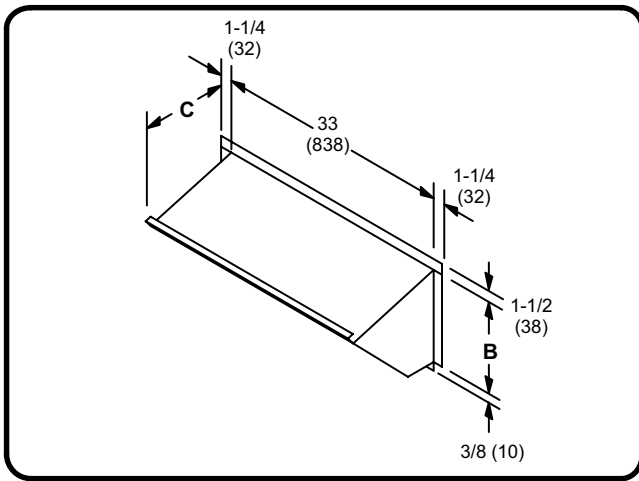


## ACCESSORY DIMENSIONS - INCHES (MM)

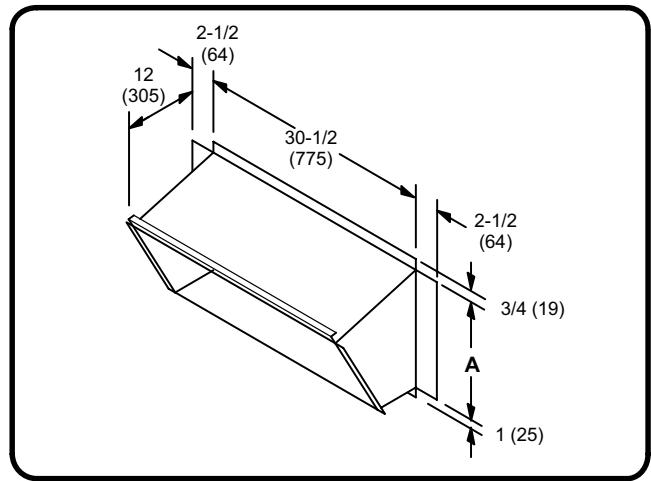
### OUTDOOR AIR HOOD DETAIL AND BAROMETRIC RELIEF DAMPER DETAIL WITH ECONOMIZER (Down-Flow Applications)



### OUTDOOR AIR HOOD FOR ECONOMIZER (Furnished with Economizer)

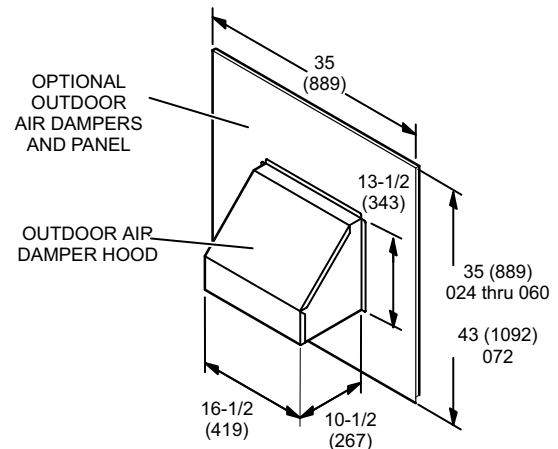
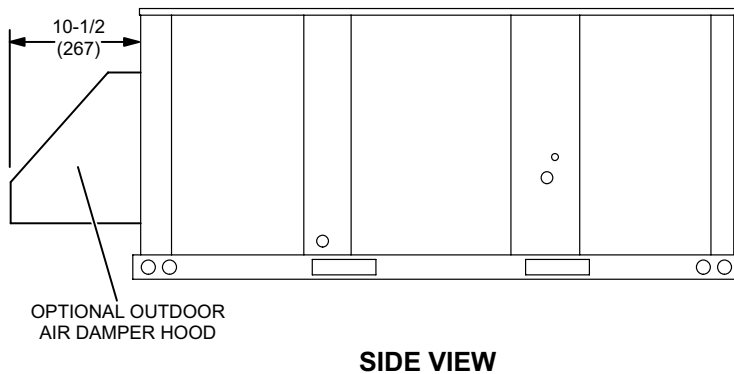


### BAROMETRIC RELIEF HOOD FOR ECONOMIZER (Furnished with Economizer)



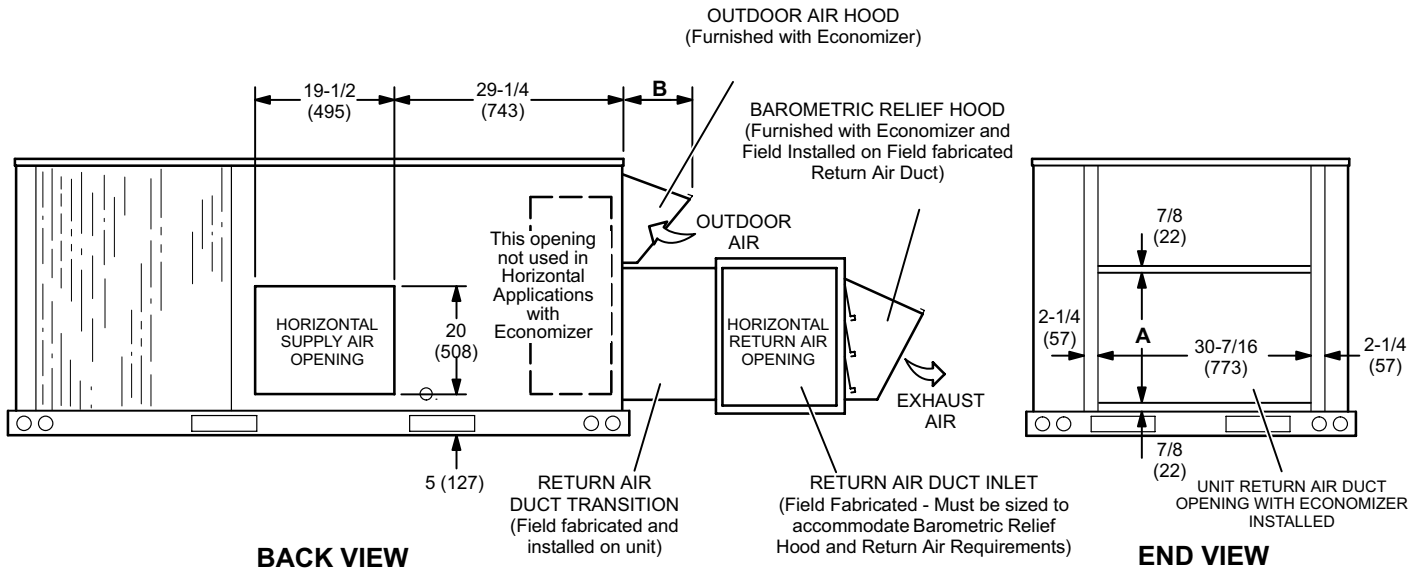
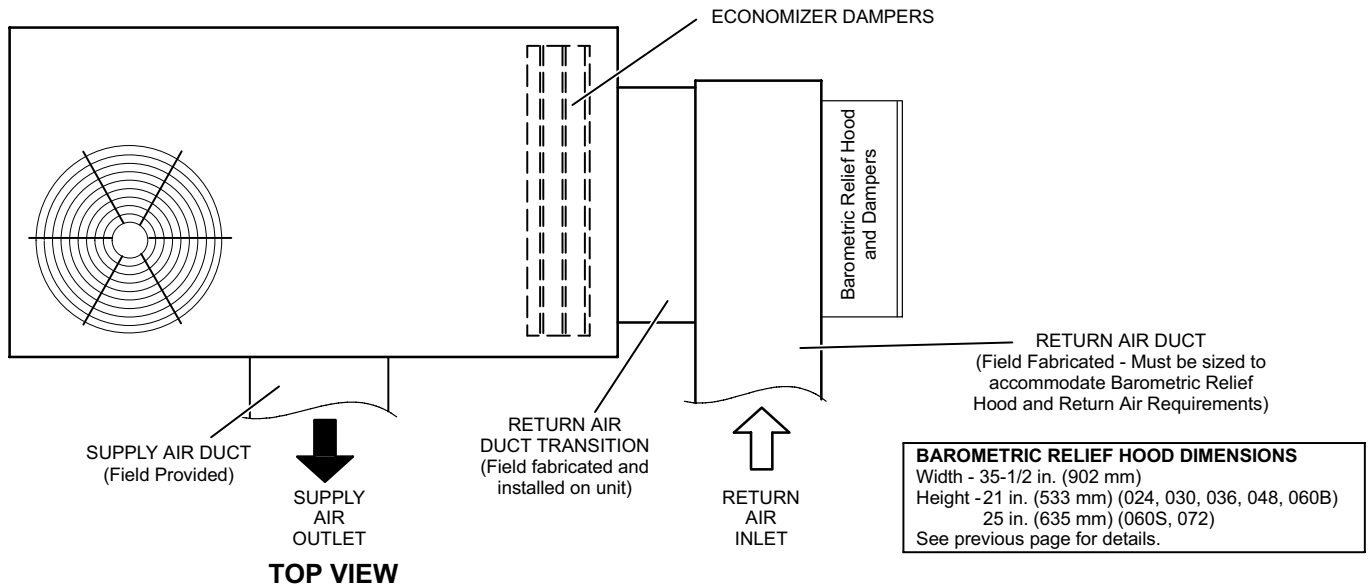
Model No.	A		B		C	
	in.	mm	in.	mm	in.	mm
024, 030, 036, 048, 060	19-1/4	489	13	330	11-3/4	298
072	23-1/4	591	17	432	15-3/4	400

### OPTIONAL OUTDOOR AIR DAMPER HOOD DETAIL FOR MANUAL OR MOTORIZED OUTDOOR AIR DAMPERS (Down-Flow or Horizontal Applications)



# ACCESSORY DIMENSIONS - INCHES (MM)

## OUTDOOR AIR HOOD DETAIL AND BAROMETRIC RELIEF DAMPER DETAIL WITH ECONOMIZER (Horizontal Applications)

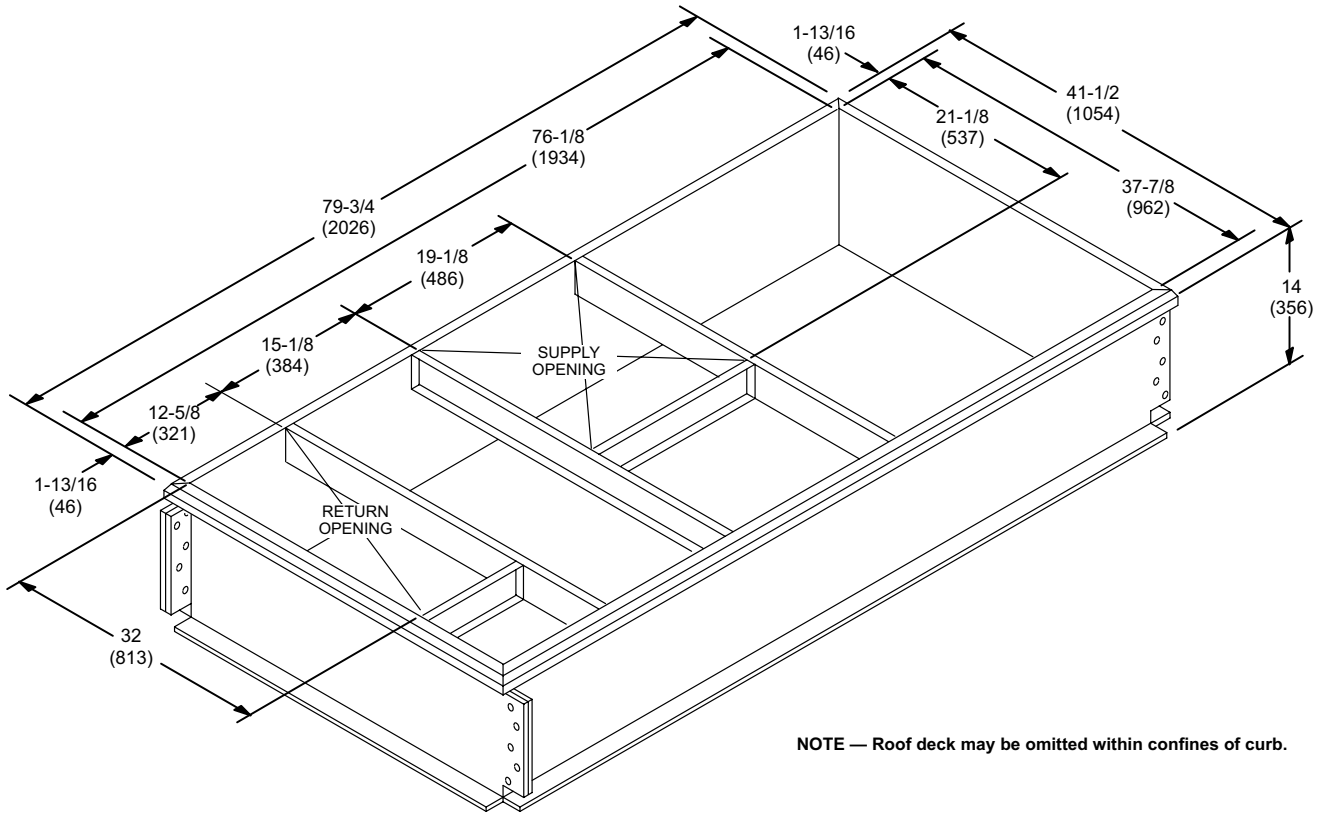


NOTE - Return Air Duct and Transition must be supported.

Model No.	A		B	
	in.	mm	in.	mm
024, 030, 036, 048, 060	18-3/4	476	11-3/4	298
072	22-1/2	572	15-3/4	400

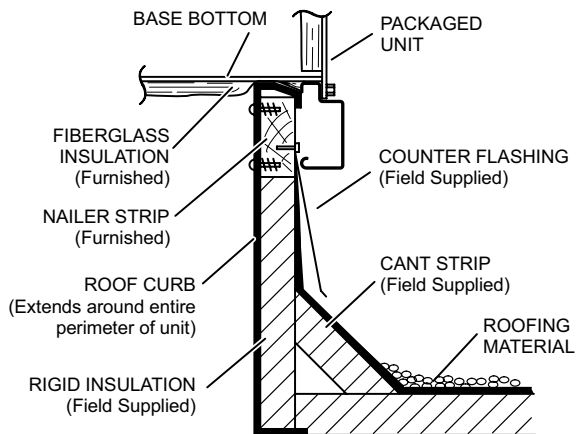
# ACCESSORY DIMENSIONS - INCHES (MM)

## STANDARD ROOF CURBS - DOUBLE DUCT OPENING

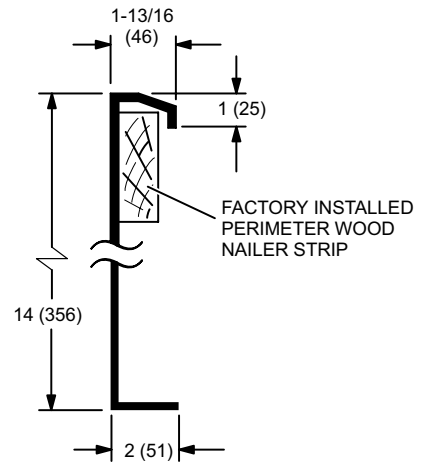


NOTE — Roof deck may be omitted within confines of curb.

### TYPICAL FLASHING DETAIL FOR ROOF CURB



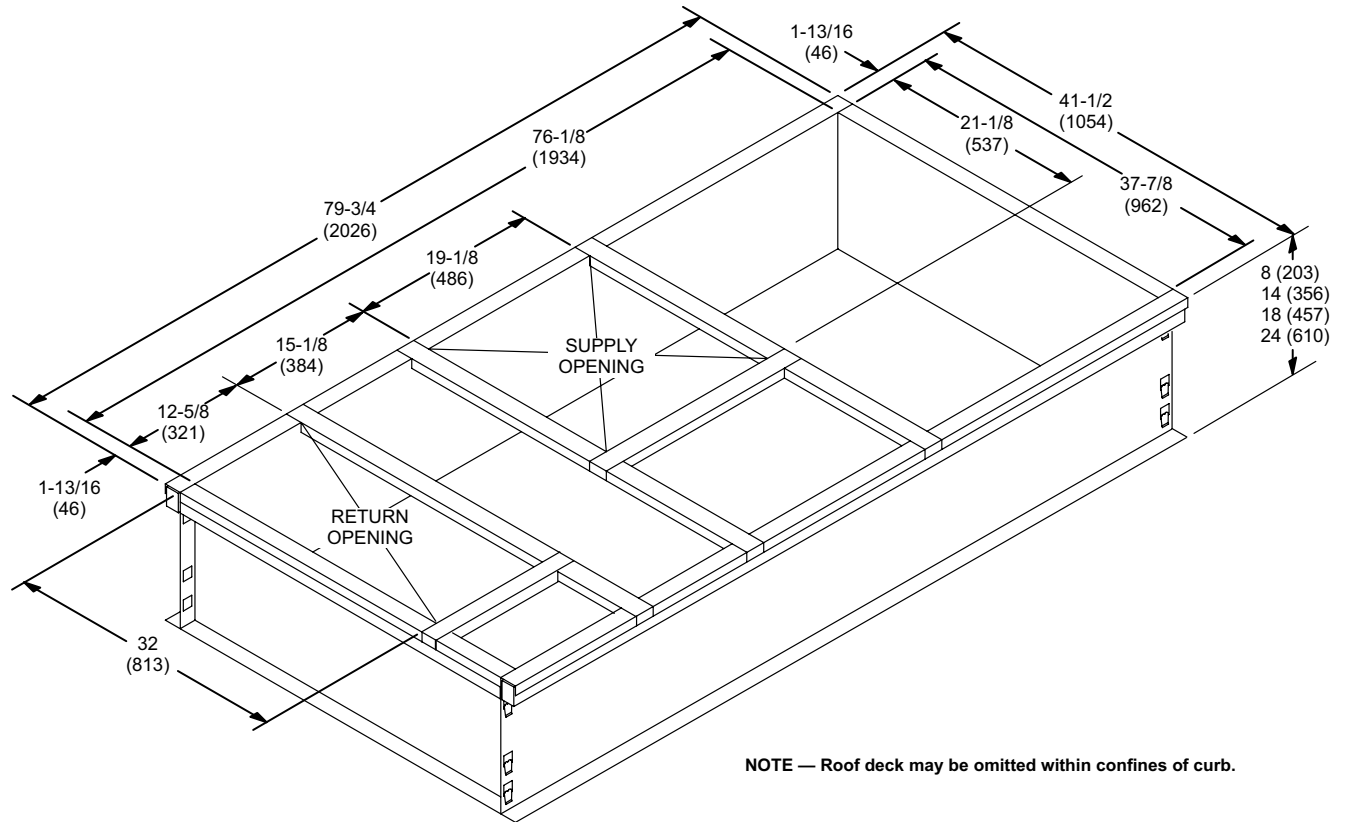
### DETAIL ROOF CURB





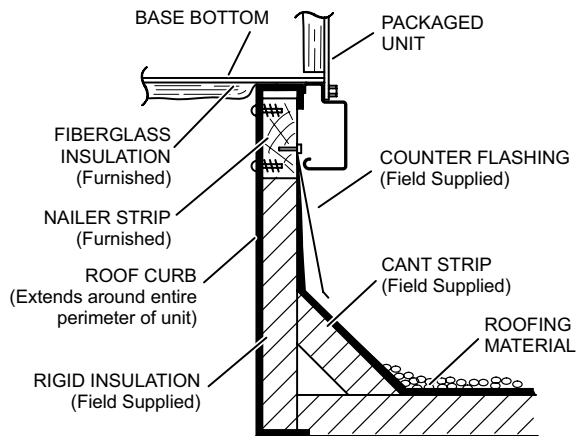
# ACCESSORY DIMENSIONS - INCHES (MM)

## CLIPLOCK 1000 ROOF CURBS - DOUBLE DUCT OPENING

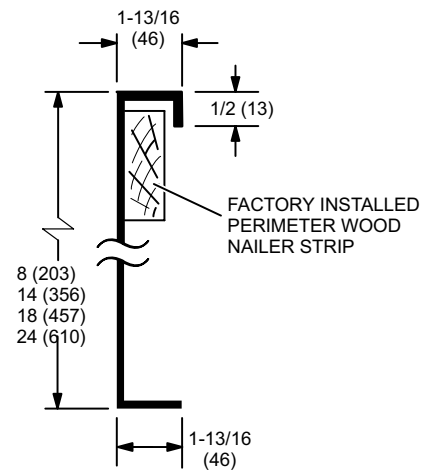


NOTE — Roof deck may be omitted within confines of curb.

### TYPICAL FLASHING DETAIL FOR ROOF CURB

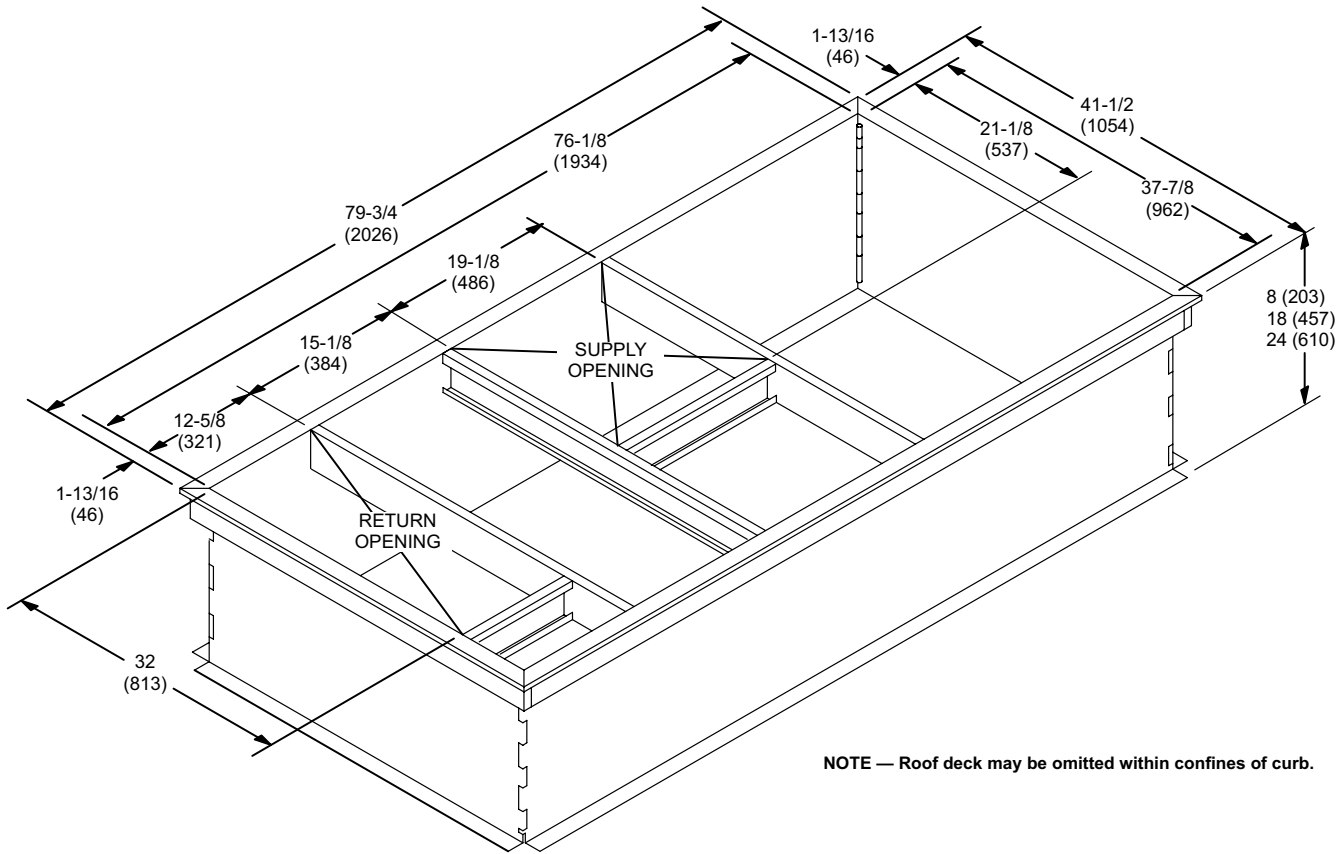


### DETAIL ROOF CURB



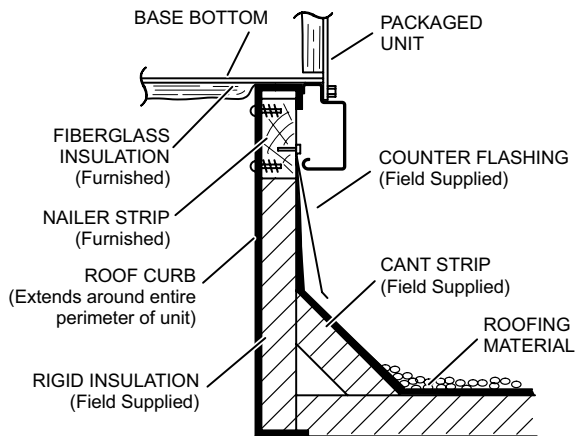
# ACCESSORY DIMENSIONS - INCHES (MM)

## HINGED ROOF CURBS - DOUBLE DUCT OPENING

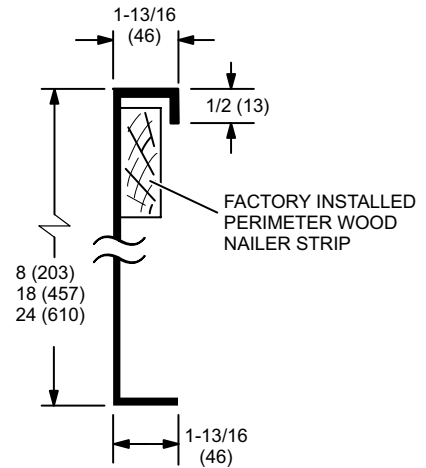


NOTE — Roof deck may be omitted within confines of curb.

### TYPICAL FLASHING DETAIL FOR ROOF CURB

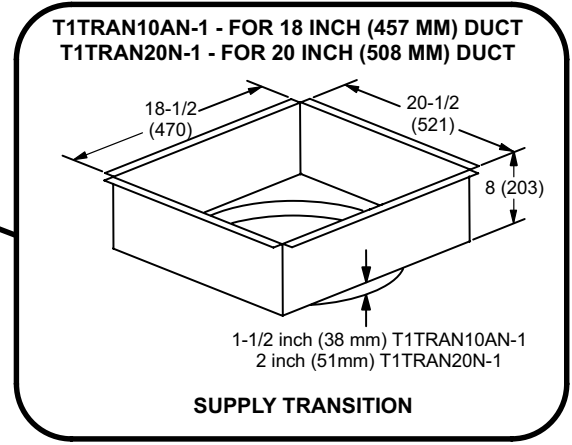
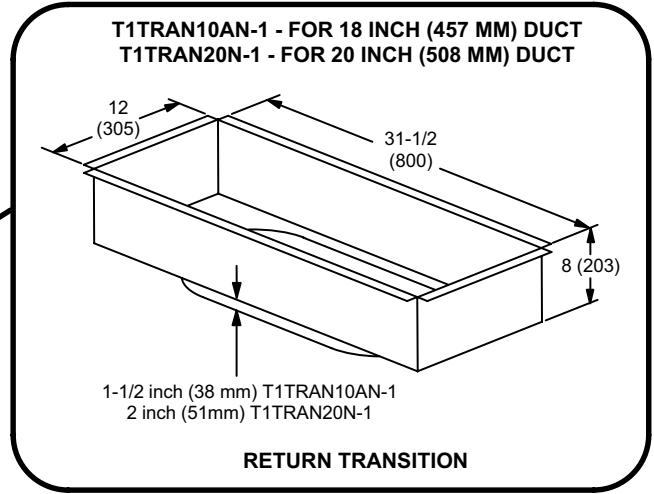
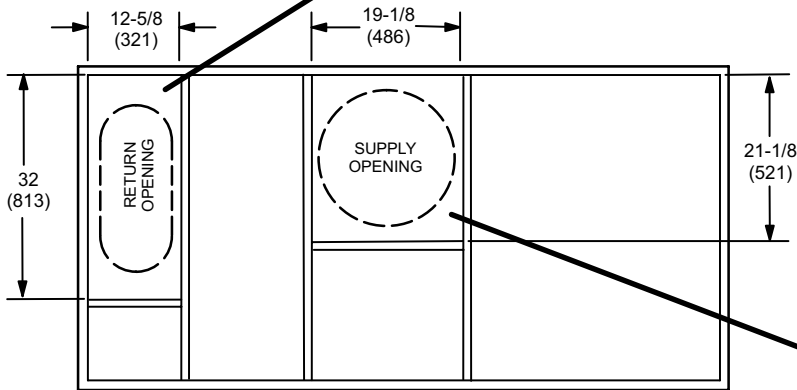


### DETAIL ROOF CURB



**ACCESSORY DIMENSIONS - INCHES (MM)**

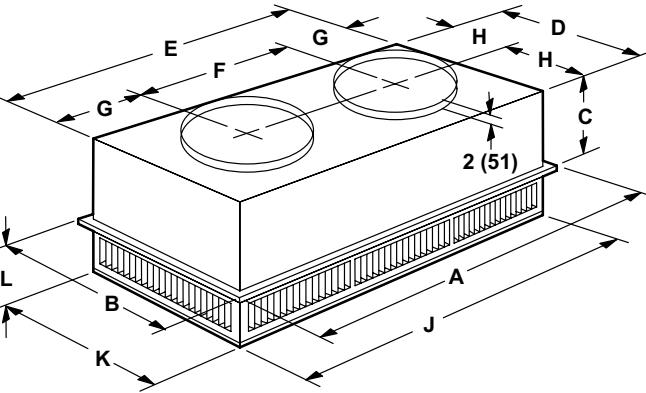
**TRANSITIONS**



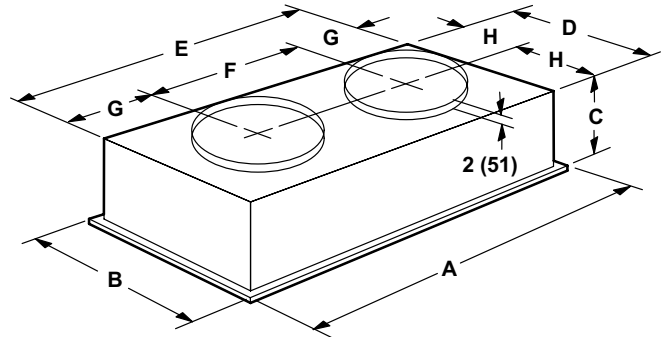
## ACCESSORY DIMENSIONS - INCHES (MM)

### COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

#### STEP-DOWN CEILING DIFFUSER



#### FLUSH CEILING DIFFUSER



Model Number		RTD9-65	RTD11-95
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	11-3/8	14-3/8
	mm	289	365
D	in.	21-1/2	27-1/2
	mm	546	699
E	in.	45-1/2	45-1/2
	mm	1156	1158
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/2	11-1/2
	mm	292	292
H	in.	10-3/4	13-3/4
	mm	273	349
J	in.	45-1/2	45-1/2
	mm	1156	1156
K	in.	21-1/2	27-1/2
	mm	546	699
L	in.	7-1/8	8-1/8
	mm	181	206
Duct Size	in.	18 round	20 round
	mm	457 round	508 round

Model Number		FD9-65	FD11-95
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	13-1/2	16-5/8
	mm	343	422
D	in.	21	27
	mm	533	686
E	in.	45	45
	mm	1143	1143
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/4	11-1/4
	mm	286	286
H	in.	10-1/2	13-1/2
	mm	267	343
Duct Size	in.	18 round	20 round
	mm	457 round	508 round









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NOTE - Due to our ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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