APMR Series

Packaged Air Conditioners

اجهـــزة تـكـيـيـف هـــــواء
AIR CONDITIONING EQUIPMENT

50Hz

R-410A
REFRIGERANT

Range 5 TR to 46 TR
(17 kW to 162 kW)

ISO 9001 ISO 14001 TÜV SÜD OHSAS 18001

CE

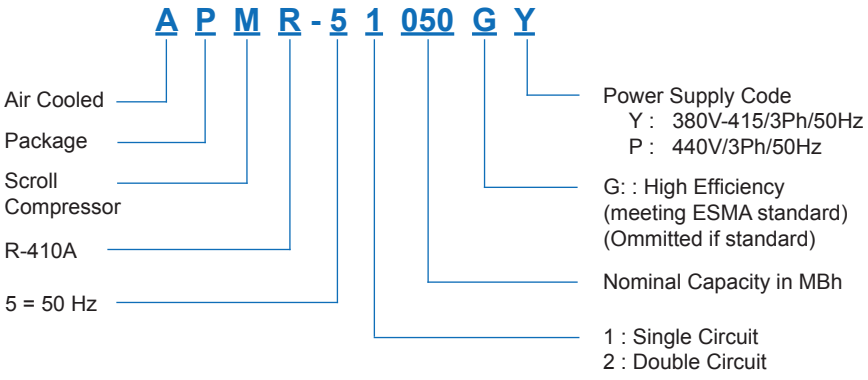
Contents

Legend

The following legends are used throughout this manual:

AFR ..... Air Flow Rate
BPF.....By Pass Factor
CFM.....Cubic feet per minute
EER.....Energy Efficiency Ratio
ESP.....External Static Pressure
Hz .....Hertz
in.wg.....Inchwatergauge
kW.....Kilowatts
kg.....Kilogram
lbs.....Pounds weight
L/s.....Liters per second
MBh.....BTUHx1000
Pa.....Pascal
Ph.....Phase
PI .....Power Input of Compressor in kW
RPM .....Revolutions Per Minute
RPS.....Rated Power Supply
TR.....Tons of Refrigeration
V.....Volts

Nomenclature



SKM reserves the right to change, in part or in whole the specifications of its Air Conditioning Equipment at any time in order to add the latest technology. Therefore, the enclosed information may change without any prior notice.

Introduction

SKM **APMR** New Packaged Air Conditioners Series are designed and manufactured to meet the requirements of Gulf's severe climatic conditions and are built specifically for ducted systems which will enable them to be installed easily on roof tops or on the ground.

The **APMR** series Packaged Air Conditioners are compact, quiet, most efficient and self contained units are ideal for commercial and top end residential applications.

APMR Series is also designed to perform as per ESMA regulation to achieve high efficiency level in gulf conditions

Available in 19 different sizes from 5 to 46 TR (17kW to 162kW) in 50 Hz at nominal AHRI conditions. **APMR** series packaged air conditioners are designed to operate in a wide ambient temperature range between 50°F (10°C) to 125°F (51.7°C), based on specific conditions & model applies. Two independent refrigeration circuits are provided where two compressors are used.

APMR units are designed, rated and manufactured in accordance with AHRI 210/240 and 340/360 standards.

APMR series units from SKM are completely assembled, leak tested, vacuumed, internally wired and fully charged with R-410A refrigerant at factory. Each unit is fully factory tested before dispatch and is ready for installation. All that is required on the site is to connect ducts, drain lines, main power supply and field wiring to the thermostat. This greatly reduces the installation work and cost.

SKM provides qualified service and stock of replacement parts in all major cities of the G.C.C. countries, Egypt, Jordan, and Pakistan. See back cover for details or call SKM.

SKM Air Conditioning LLC

اجهزة تكييف هواء
AIR CONDITIONING EQUIPMENT

You name it.....We cool it

General Features

The **APMR** Series is a modern, diversified and environment friendly series of packaged air conditioners which use R-410A refrigerant.

The **APMR** Series Packaged Air Conditioners are yet another new unique series from SKM incorporates many salient features which, together, provides a heavy duty, robust, long lasting commercial unit meant for high end residential and commercial applications. The **APMR** series models combine high efficiency condenser and cooling coils, evaporator blower and heavy duty motor in addition to premium safety and operational controls.

The complete **APMR** packaged unit provides an extremely rugged, long life, energy efficient, self contained packaged air conditioner that will provide cooling with higher efficiency over a long and extended life.

What makes **APMR** series yet another model in the top class range of SKM products is the use of:

- High efficiency totally sealed scroll hermetic compressors.
- Totally enclosed, Class F insulated,condenser and evaporator fan motors.
- Heavy duty condenser and evaporator coils optimised in design for long-life maintenance free operation.
- Cabinet construction specifically designed for Gulf climates.
- Electronic control board for the unit operation.
- Typically, much heavier gauge tubing and thicker fins for ruggedness and long life.

Main Component Features

The common standard features of all **APMR** series packaged units include the following

Compressors

Compressors used in **APMR** packaged unit series are hermetically sealed, compact scroll with the following features:

- High Efficiency.
- Quiet operation, Low Sound levels.
- Compact and light.
- Limited wear.
- 70% fewer moving parts than comparably sized reciprocating compressors.
- Unique ability to hadle liquid refrigerant.
- Suction gas motor cooling.
- Suction screen.
- Centrifugal oil pumps with filter and magnet.
- Brazed fittings or Rotalock options.
- Two refrigerant circuits on larger units provides efficient part load.
- No internal valves.

Condenser Coils

Condenser coils are manufactured from Corrugated fin and Hi-X seamless copper tubes mechanically bonded to aluminium fins to ensure optimum heat transfer. All coils are tested against leakage by high air pressure 715psig (4930kPa) under water. An integral subcooling circuit is incorporated in the lower section of the condenser to increase system capacity. The additional condenser surface provides more cooling using less energy at no additional cost.

Condenser Fans

Condenser fans are propeller type with aluminum alloy blades and are directly driven by electric motors. Motors are Totally Enclosed Air Over (TEAO), six pole or four pole with Class F insulation and IP54/55 protection depending on models. Complete fan assembly is provided with fan guard.

Evaporator

Evaporator coils are manufactured from Hi-X seamless copper tubes mechanically bonded to aluminium Corrugated fins to ensure optimum heat transfer. All evaporator coils are tested against leakage by high air pressure of 450 psig (3100kPa) under water. Coils conform to AHRI-410.

Evaporator Fan & Drive

Evaporator fans are forward curved centrifugal double inlet, double width, statically and dynamically balanced. Bearings used in the fans are self aligning and lubricated for life. Evaporator fans are belt driven and use “V” belts with an adjustable variable pitch motor pulley resulting in an accurate fan air flow adjustment.

Fans are driven by Totally Enclosed, IP-55 Protected, 4 pole Class F insulated electric motors. The motors are factory wired to the control panel where the motor starters are located to control the operation of the motors. The motors conform to relevant IEC standards.

Casing and Structure

The unit casing used in **APMR** series is made of hot dip galvanized (zinc coated) steel sheets, conforming to JIS-G 3302 and ASTMA653, which is phosphatized and baked after an electrostatic powder coat of approx. 60 microns. This finish and coating can pass a 1000 hour in 5% salt spray testing at 95°F (35°C) and 95% relative humidity as per ASTM B117.

The evaporator section is insulated from all the sides with 1” thick fiber glass insulation with extremely tough and durable black composite surface. The insulation cum sound liner meets the fire requirements of NFPA90A & 90B and is secured with mechanical fasteners in addition to water resistant adhesive.

Refrigerant R- 410A
Why 410A?

R-410A has a higher volumetric cooling capacity compared to R-22 and has better thermal exchange properties. This results in overall performance gains in terms of system efficiency. The greater density of the vapour in R-410A permits higher system velocities, reduces pressure drop losses and allows smaller diameter tubing to be used. In other words a smaller unit can be developed using a smaller displacement compressor, less coil and less refrigerant while maintaining system efficiencies comparable to current day R-22 equipment.

Benefits

- **No ozone depletion potential or phase-out date**

Using chlorine-free R-410A with zero Ozone Depletion Potential (ODP) helps protect both the environment and your investment. That's because new equipment using R-410A faces no mandated phase-out date over a 20 to 30 year equipment life expectancy.

- **Reduced service costs**

R-410A refrigerant has no significant "glide." If a leak occurs, only the lost refrigerant must be replaced.

Attention points

- Pressure level: 1.6 times of R-22.
- Lubricating oil: Ester Oil absorb moisture easily (Never mix with mineral oil).
- Tools exclusive for R-410A.
- Never mix R-410A with other refrigerant.
- Driers, valves and even copper tube must be approved for use with R-410A.
- Never allow refrigerant cylinders to exceed 60°C.

Control Panel

The APMR packaged Air Conditioners are provided with IP-54 control panel enclosure comprising all starting, operating & safety controls. The panel is factory wired in accordance with NEC 430 & 440, labelled, tagged and features 220V / 240V controls.

- Starting contactors for compressors and motors.
- Internal overload protection for compressors.
- Internal or External overload protection for the motors (depending on the model).
- Electronic control board for unit operation.
- Diagnostic LEDs on the control board for easy troubleshooting .
- Compressor short cycling protection.
- Control switch for unit on/off.
- Control circuit breaker.
- Power and control circuit terminal blocks.
- High pressure protection.
- Low pressure protection.

Optional Features

As with all SKM air conditioning units, the **APMR** Series Packaged Units are available with multitude of optional features available on request:

Double Skin Evaporator (DSE)
Double skin evaporator section with galvanized inner skin.

Double Skin Insulation (DSI)
Inner skin in the evaporator section is provided with foam board insulation.

Temperature Based Economizer (ECRU)
Simple temperature based economizer.

2" (50mm) Flat Filter Section (FSIP2)
For heavy filtration need a section can be provided without or with aluminium cleanable filter.

Alternative Condenser Material
Made of copper tubes and alternative fin material and/or protective coating.

- Pre Coated aluminum fins (FAP).
- Aluminum Fins with Aeris post Coat Protection (FAA).
- Copper Fins (FC).
- Copper Fins with Aeris post Coat Protection (FCA).

Alternative Evaporator Material
Made of copper tubes and alternative fin material and/or protective coating.

- Pre Coated aluminum fins (EFAP).
- Aluminum Fins with Aeris post Coat Protection (EFAA).
- Copper Fins (EFC).
- Copper Fins with Aeris post Coat Protectionn (EFCA).

Anti-Freeze Thermostat (AFT)
For evaporator coil freeze -up protection.

Western Make Scroll Compressor (WMSC)
Western make scroll compressor.

Compressor Run Hour Meter (RHM)
To monitor operating hours of each compressor.

Electric Heating (HTR1)
Electric heating batteries are made up of finned heating elements, constructed from high quality 80/20 nickel chrome resistance wire centred in metal tube by compressed magnesium oxide. Helical fins are tightly wound around the tubular heating element. Heater batteries when ordered comes with stage contactors, primary auto reset thermal safety cut-out, secondary manual reset thermal safety cut-out and air flow switch.

Control of the heaters will be from the unit controller. Following are the optional kW ratings for electric heater. Ratings other than those specified here can be supplied on request. Consult SKM for details**(Not applicable for High Efficiency models)**

MODEL APMR	HEATER (kW)	STAGES
51050	4.5	1
51060		
51075	9	
51080		
51100		
52115	18	2
52125		
52150		
52170		
52200		
52230		
52240	24	
52270		
52300		
52340		

Table 1

Circuit Breaker for compressor (CBC)

For those electrical specification which requires additional short circuit and overload protection for the compressors.

Rotalock Valves on compressors (RVC)

For additional facilitation of maintenance of unit.

External Overload Protection (EOP)

For those electrical specification requires additional overload protection for the compressors.(Not required with CBC option)

Advanced Micro Processor Control System (AMCS)

An advanced microprocessor based controller can be provided for the units as option, in case required. This controller will be with built-in display keypad and has many features. For this feature, additional options can be provided and to be specified during time of order:

- **DTS – Duct Temperature Sensor ***

(In order to control the unit based on return/supply air duct temperature.) (**This is not required with CHTS options**)

- **BMSP – BMS Protocol ***

(For interfacing the units with major BMS protocols such as BACnet, Modbus or LON. An extra hardware may be required depending on the protocol)

Pump Down Facility (PD)

The compressor will switch off each time with a Pump Down Cycle in order to prevent Liquid refrigerant migration to the compressor during off Cycle periods.

With this option, each circuit will be provided with an additional discharge check valve (if required) to prevent Refrigerant Migration from High side to Low side when the compressor is off.

Applicable for models from APMR-52300 & 52340 & 51050G to 52560G

Pump Down Facility with solenoid Valve (PDS)

The compressors will switch off each time with a Pumpdown Cycle in order to prevent Liquid refrigerant migration to the compressor during Off Cycle periods.

Applicable for models from APMR-51050 to 52270

Extra Ball Valve (XFV)

Extra ball valve can be incorporated in the liquid line.

Pressure relief valve (PRV)

To protect the unit from being over - pressurized.

Pressure Gauges (SDG1)

Suction and discharge indication of each refrigerant circuit. Gauges mounted outside the Control Panel.

Manual Reset Type High Pressure Switch (MHP)

To replace standard auto reset, capsule type pressure switch.

Liquid Line Sight Glass (RSG)

For monitoring refrigerant charge and to provide visual indication of moisture presence in the system.

Condenser Coil Guard (CGP)

Wire mesh guard, in painted finish for condensers coils. Recommended on ground level installation where coil needs to be protected against vandalism.

Stainless Steel Drain Pan (Grade 304) (SDP)

Stainless steel drain pan(Grade 304). Insulation under drain pan as per SKM standard.

Stainless Steel Drain Pan (SSP)

Heavy gauge 316 stainless steel drain pan under the entire cooling coil.

Insulation under drain pan as per SKM standard.

Up Size Evaporator Motor** (USM)

Unit with one up size evaporator motor. (**Not applicable for High efficiency models**)

Circuit breaker for Motors** (CBM)

For those electrical specification which requires additional short circuit and overload protection for the fan motors.

IP 55 Control Panel (ICP)

Control Panel for special applications to meet IP55 requirements.

Main Isolator (without door interlock) (ISO)

For main power isolation. (**Consult SK**M)

Control Transformer (CXT)

This option is necessary and available for unit models rated for 440V/3PH/50Hz or power supplies without neutral.
When ordering for these voltages, this option must be ordered. (**Not applicable for High efficiency models**)

BMS Interface Volt Free Contacts (BMVF)

Volt free contacts for run status, common fault status, auto mode status and provision for remote on/off shall be provided as option if required.
For additional requirements, please contact SKM.

Voltage Monitor Module (VMM)

Provides protection in the event of:
- Phase burn-out.
- Phase reversal.
- Under / over voltage on the incoming line voltage.

Voltage Monitoring Module as per DEWA (DVM)

Under voltage relay as per DEWA regulations. This option is available for Dubai, UAE only.(**VMM option is not required if this option is opted**.)

Ball Valve (BLV)

Ball valve can be incorporated in the liquid line.

Fan Cycling Switch (FCS)

Fan Cycling switch for single compressor units with two condenser fans.(**Not required with AMCS option**)

Options for Field Installation

Low Voltage Thermostat (CHTS)

For wall mounting and for cooling /heating operation with 1 or 2 stages as per model. (**Not required with AMCS option**).

Note:

- *DTS & BMSP options are only available along with AMCS option.

- **If CBM combined with USM option please consult SKM as component might changed.

- Whenever multiple options related to unit control, please consult SKM for the drawings, as the size of the control panel might change.

- Solenoid valve in liquid line is provided as standard feature for High Efficiency models.

ENGINEERING SPECIFICATIONS - 50 Hz

Model		APMR	51050	51060	51075	51080	51100	52115	52125
Cooling Capacity (1)		MBh	53.4	59.0	74.4	80.4	98.6	113.7	120.0
		kW	15.6	17.3	21.8	23.6	28.9	33.3	35.2
Cooling Capacity (2)		MBh	47.4	52.4	66.4	70.8	87.6	99.9	106.8
		kW	13.9	15.4	19.5	20.7	25.7	29.3	31.3
Cooling Capacity (3)		MBh	46.1	51.1	64.6	68.8	85.2	97.2	103.8
		kW	13.5	15.0	18.9	20.2	25.0	28.5	30.4
Compressor	Type	-	Hermetic Scroll						
	Quantity	-	1	1	1	1	1	2	2
	Oil Charge	US Gal	0.45	0.47	0.48	0.71	0.9	0.9	0.94
		Litre	1.7	1.77	1.8	2.7	3.4	3.4	3.54
Condenser Coil	Type	-	Hi-X tubes						
	Face Area	ft	19.4	26.7	26.7	26.7	26.7	26.7	40
		m	1.8	2.5	2.5	2.5	2.5	2.5	3.7
Condenser Fan	Type	-	Propeller Direct Drive						
	Code / Quantity	-	550/1	550/2	550/2	550/2	550/2	550/2	630/2
Condenser Motor	Type	-	Totally Enclosed Air Over, Class-F insulation, 4 pole or 6 pole, IP54 protected						
Evaporator Coil	Type	-	Hi-X-Tubes						
	Face Area	ft	4.6	4.6	6.4	6.4	8.7	9.7	9.7
		m	0.4	0.4	0.6	0.6	0.8	0.9	0.9
Evaporator Fan	Type	-	Centrifugal DIDW Belt Drive						
	Code / Quantity	-	10/10	10/10	10/10	12/12	12/12	12/12	12/12
	Air Flow Rate	cfm	1670	2000	2400	2900	3220	4000	4000
		l/s	788	944	1133	1369	1520	1888	1888
Evaporator Motor	Type	-	Totally Enclosed Fan Cooled, Class-F insulation, 4-pole, IP55 Protected.						
	Size	kW	0.55	0.55	0.75	1.1	1.1	1.5	1.5
Refrigerant (R - 410A) Operating Charge		lbs	7.5	10	10	10	17	17	26
		kg	3.4	4.5	4.5	4.5	7.7	7.7	11.8
Number of Refrigerant Circuits		-	1	1	1	1	1	2	2
Unit Operating Weight		lbs	585	681	695	771	909	1050	1242
		kg	265	309	315	350	412	476	563

Table 2

Notes:

(1) Capacity ratings are based on AHRI Standard 210/240 & 340/360. Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb.

(2) Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb.

(3) Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 118.4°F (48°C) dry bulb.

(4) Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

ENGINEERING SPECIFICATIONS - 50 Hz

Model		APMR	52150	52170	52200	52230	52240	52270	52300	52340
Cooling Capacity (1)		MBh	150.3	168.1	194.6	227.1	233.7	264.5	299.5	337.6
		kW	44.1	49.3	57.0	66.6	68.5	77.5	87.8	98.9
Cooling Capacity (2)		MBh	134.6	149.3	173	198.3	206.8	229.1	259.9	298.9
		kW	39.4	43.8	50.7	58.1	60.6	67.1	76.2	87.6
Cooling Capacity (3)		MBh	131.0	145.1	168.3	192.8	200.9	222.5	252.3	290.7
		kW	38.4	42.5	49.3	56.5	58.9	65.2	73.9	85.2
Compressor	Type	-	Hermetic Scroll							
	Quantity	-	2	2	2	2	2	2	2	2
	Oil Charge	US Gal	0.95	1.43	1.80	1.80	1.80	1.80	1.80	1.80
		Litre	3.6	5.4	6.8	6.8	6.8	6.8	6.8	6.8
Condenser Coil	Type	-	Hi-X tubes							
	Face Area	ft²	40.0	40.0	48.0	48.0	54.7	54.7	53.3	53.3
		m²	3.7	3.7	4.5	4.5	5.1	5.1	5.0	5.0
Condenser Fan	Type	-	Propeller Direct Drive							
	Code / Quantity	-	630/2	710/2	710/2	710/2	800/2	800/2	800/2	800/2
Condenser Motor	Type	-	Totally Enclosed Air Over, Class-F insulation, 6 pole, IP54/IP55 depending on models							
Evaporator Coil	Type	-	Hi-X-Tubes							
	Face Area	ft²	12.5	13.3	15.6	15.6	19.5	19.5	21.7	21.7
		m²	1.2	1.2	1.4	1.4	1.8	1.8	2.0	2.0
Evaporator Fan	Type	-	Centrifugal DIDW Belt Drive							
	Code / Qty.	-	15/15	12/12 R2	12/12 R2	12/12 R2	15/15 R2	15/15 R2	15/15 R2	15/15 R2
	Air Flow Rate	cfm	5000	6000	7000	7000	8000	8000	9100	10500
		l/s	2360	2832	3304	3304	3776	3776	4295	4955
Evaporator Motor	Type	-	Totally Enclosed Fan Cooled, Class-F insulation, 4-pole, IP55 Protected.							
	Size	kW	2.2	2.2	3	3	3	3	3	4
Refrigerant (R - 410A) Operating Charge		lbs	26.0	26.0	30.0	31.0	34.0	36.0	51.0	52.0
		kg	11.8	11.8	13.6	14.1	15.4	16.3	23.1	23.6
Number of Refrigerant Circuits		-	2	2	2	2	2	2	2	2
Unit Operating Weight		lbs	1277	1469	1709	1741	1878	1925	2050	2225
		kg	579	666	775	790	852	873	930	1009

Table 3

Notes:

(1) Capacity ratings are based on AHRI Standard 210/240 & 340/360. Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb.

(2) Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb.

(3) Evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 118.4°F (48°C) dry bulb.

(4) Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

ENGINEERING SPECIFICATIONS - 50 HZ (HIGH EFFICIENCY)

Model		APMR	51050 G	51060 G	51075 G	51080 G	51100 G	52115 G	52150 G
Cooling Capacity (1)		MBH	47.2	53.3	65.4	75.5	84.2	102.0	138.8
		kW	13.8	15.6	19.1	22.1	24.7	29.9	40.7
		EER	8.1	8.2	8.1	8.3	8.1	8.1	8.2
Compressor	Type	-	Hermetic Scroll						
	Quantity	-	1	1	1	1	1	2	2
	Oil Charge	US Gal	0.45	0.47	0.48	0.71	0.90	0.90	0.95
		Liter	1.7	1.77	1.8	2.7	3.4	3.4	3.6
Condenser Coil	Type	-	Hi-X Tubes						
	Face Area	ft	19.4	26.7	26.7	26.7	26.7	40.0	54.7
		m	1.8	2.5	2.5	2.5	2.5	3.7	5.1
Condenser Fan	Type	-	Propeller Direct Drive						
	Code / Quantity	-	550/1	550/2	550/2	550/2	550/2	630/2	710/2
Condenser Motor	Type	-	Totally Enclosed Air Over, Class-F insulation, 4 pole or 6 pole, IP54/IP55 depending on the models						
Evaporator Coil	Type	-	Hi-X Tubes						
	Face Area	ft	4.6	4.6	6.4	8.7	8.7	13.3	15.6
		m	0.4	0.4	0.6	0.8	0.8	1.2	1.4
Evaporator Fan	Type	-	Centrifugal DIDW Belt Drive						
	Code / Quantity	-	10/10	10/10	10/10	12/12	12/12	15/15	15/15
	Air Flow Rate	cfm	1670	2000	2400	2900	3220	5000	5000
		l/s	788	944	1133	1369	1520	2360	2360
Evaporator Motor	Type	-	Totally Enclosed Fan Cooled, Class-F insulation, 4-pole, IP55 Protected.						
	Size	kW	0.37	0.55	0.75	0.75	1.1	1.5	1.5
Refrigerant (R - 410A) Operating Charge		lbs	12.1	16.4	16.4	17.2	17.3	25.8	35.2
		kg	5.5	7.4	7.4	7.8	7.8	11.7	16.0
Number of Refrigerant Circuits		-	1	1	1	1	1	2	2
Unit Operating Weight		lbs	617	721	735	942	949	1050	1659
		kg	280	327	333	427	430	476	752

Table 4

Notes:

(1) Evaporator entering air conditions of 84.2°/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb, (Net Capacity).

ENGINEERING SPECIFICATIONS - 50 HZ (HIGH EFFICIENCY)

Model		APMR	52170 G	52200 G	52230 G	52240 G	52270 G	52300 G	52340 G
Cooling Capacity (1)		MBH	148.7	178.4	200.2	204.4	225.2	248.9	286.7
		kW	43.6	52.3	58.7	59.9	66.0	72.9	84.0
		EER	8.1	8.0	8.0	8.1	8.0	7.7	7.6
Compressor	Type	-	Hermetic Scroll						
	Quantity	-	2	2	2	2	2	2	2
	Oil Charge	US Gal	1.43	1.80	1.80	1.80	1.80	1.80	1.80
		Liter	5.4	6.8	6.8	6.8	6.8	6.8	6.8
Condenser Coil	Type	-	Hi-X Tubes						
	Face Area	ft²	54.7	54.7	54.7	54.7	60.0	60.0	60.0
		m²	5.1	5.1	5.1	5.1	5.6	5.6	5.6
Condenser Fan	Type	-	Propeller Direct Drive						
	Code / Quantity	-	710/2	800/2	800/2	800/2	800/2	800/2	800/2
Condenser Motor	Type	-	Totally Enclosed Air Over, Class-F insulation, 6 pole, IP54/IP55 depending on the models Protected						
Evaporator Coil	Type	-	Hi-X Tubes						
	Face Area	ft²	15.6	21.7	21.7	21.7	26.0	26.0	26.0
		m²	1.4	2.0	2.0	2.0	2.4	2.4	2.4
Evaporator Fan	Type	-	Centrifugal DIDW Belt Drive						
	Code / Qty.	-	12/12 R2	12/12 R2	12/12 R2	15/15 R2	15/15 R2	15/15 R2	15/15 R2
	Air Flow Rate	cfm	6000	7000	7000	8000	8000	9100	10500
		l/s	2832	3304	3304	3776	3776	4295	4955
Evaporator Motor	Type	-	Totally enclosed fan cooled, Class-F insulation, 4-pole, IP55 Protected.						
	Size	kW	2.2	3	3	3	3	4	4
Refrigerant (R - 410A) Operating Charge		lbs	35.2	51.8	51.8	51.8	59.4	60.0	60.0
		kg	16.0	23.5	23.5	23.5	26.9	27.2	27.2
Number of Refrigerant Circuits		-	2	2	2	2	2	2	2
Unit Operating Weight		lbs	1754	1842	1850	1911	2361	2440	2451
		kg	795	835	839	867	1071	1107	1112

Table 5

Notes:

(1) Evaporator entering air conditions of 84.2°/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb, (Net Capacity).

ENGINEERING SPECIFICATIONS - 50 HZ (HIGH EFFICIENCY)

Model		APMR	52380G	52420G	52500G	52560G
Cooling Capacity (1)		MBH	330	372	420	465
		kW	97	109	123	136
		EER	7.6	7.7	7.6	7.5
Compressor	Type	-	Hermetic Scroll Compressor			
	Quantity	-	2	2	2	2
	Oil Charge Ckt (A / B)	US Gal	1.22 / 0.90	1.22 / 1.22	1.80 / 1.22	1.80 / 1.80
		Liter	4.60 / 3.40	4.60 / 4.60	6.80 / 4.60	6.80 / 6.80
Condenser Coil	Type	-	Hi-X Tubes			
	Face Area	ft^2	53.3	64.0	72.0	72.0
		m^2	5.0	5.9	6.7	6.7
Condenser Fan	Type	-	Propeller direct drive			
	Code / Quantity	-	800 / 3	800 / 4	800 / 4	800 / 4
Condenser Motor	Type	-	Totally enclosed, air over Class F insulation, 6-pole, IP-55 protected			
Evaporator Coil	Type	-	Hi-X Tubes			
	Face Area	ft^2	29.2	29.2	37.5	37.5
		m^2	2.7	2.7	3.5	3.5
Evaporator Fan	Type	-	Centrifugal double inlet double width belt drive			
	Code	-	15 / 15 R2	15 / 15 R2	18 / 18 R2	18 / 18 R2
	Air Flow Rate	cfm	10400	11700	14600	17200
		l/s	4908	5521	6890	8117
Evaporator Motor	Type	-	Totally enclosed, fan cooled Class F insulation, 4-pole IP55 protected			
	Size	kW	5.5	7.5	7.5	11.0
Refrigerant Operating Charge Ckt (A / B)		lbs	43.1 / 31.3	44.7 / 44.7	55.5 / 45.3	50.6 / 50.6
		kg	19.5 / 14.2	20.3 / 20.3	25.2 / 20.5	22.9 / 22.9
Number of Refrigerant Circuits		-	2	2	2	2
Unit Operating Weight		lbs	3506	4012	4280	4958
		kg	1590	1820	1941	2249

Table 6

Notes:

(1) Evaporator entering air conditions of 84.2°/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F (46°C) dry bulb, (Net Capacity).

GROSS CAPACITY RATINGS - 50 Hz

Model APMR	AFR cfm l/s (BPF)	EWB °F	EWB °C	Condenser Entering Air Temperature 95°F (35°C) Total Capacity MBh	95°F (35°C) Total Capacity kW	95°F (35°C) Sensible Capacity MBh	95°F (35°C) Sensible Capacity kW	95°F (35°C) PI kW	105°F (40.6°C) Total Capacity MBh	105°F (40.6°C) Total Capacity kW	105°F (40.6°C) Sensible Capacity MBh	105°F (40.6°C) Sensible Capacity kW	105°F (40.6°C) PI kW	114.8°F (46°C) Total Capacity MBh	114.8°F (46°C) Total Capacity kW	114.8°F (46°C) Sensible Capacity MBh	114.8°F (46°C) Sensible Capacity kW	114.8°F (46°C) PI kW	118.4°F (48°C) Total Capacity MBh	118.4°F (48°C) Total Capacity kW	118.4°F (48°C) Sensible Capacity MBh	118.4°F (48°C) Sensible Capacity kW	118.4°F (48°C) PI kW	125°F (51.7°C) Total Capacity MBh	125°F (51.7°C) Total Capacity kW	125°F (51.7°C) Sensible Capacity MBh	125°F (51.7°C) Sensible Capacity kW	125°F (51.7°C) PI kW
51050	1260	62	16.7	47	13.8	39.4	11.5	4.2	43.7	12.8	37.9	11.1	4.9	40.4	11.8	36.5	10.7	5.5	39.3	11.5	36	10.6	5.7	--	--	--	--	--
	595	67	19.4	51	14.9	33	9.7	4.3	48.1	14.1	31.8	9.3	4.9	45.3	13.3	30.7	9	5.5	44.3	13	30.4	8.9	5.7	--	--	--	--	--
	0.17	72	22.2	55	16.1	26.4	7.8	4.4	51.9	15.2	25.4	7.4	4.9	48.9	14.3	24.3	7.1	5.4	47.9	14	24	7	5.6	--	--	--	--	--
	1670	62	16.7	48.2	14.1	44.9	13.2	4.3	44.9	13.2	43.5	12.8	4.9	41.7	12.2	41.7	12.2	5.5	40.6	11.9	40.6	11.9	5.7	--	--	--	--	--
	788	67	19.4	53.4	15.6	37.4	10.9	4.3	50.3	14.8	36.2	10.6	4.9	47.4	13.9	35.1	10.3	5.5	46.1	13.5	34.6	10.2	5.6	--	--	--	--	--
	0.2	72	22.2	57.4	16.8	29.1	8.5	4.4	54.2	15.9	28.1	8.2	4.9	51.1	15	27.1	7.9	5.4	50	14.6	26.7	7.8	5.6	--	--	--	--	--
	2521	62	16.7	50.1	14.7	50.1	14.7	4.3	46.8	13.7	46.8	13.7	4.9	43.7	12.8	43.7	12.8	5.5	42.6	12.5	42.6	12.5	5.7	--	--	--	--	--
	1190	67	19.4	56.2	16.5	45.4	13.3	4.4	52.3	15.3	44	12.9	4.9	48.7	14.3	42.7	12.5	5.4	47.4	13.9	42.3	12.4	5.6	--	--	--	--	--
	0.26	72	22.2	60.2	17.6	34.1	10	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
51060	1260	62	16.7	50.7	14.9	41	12	4.2	47.9	14	39.8	11.7	4.8	44.5	13	38.2	11.2	5.4	43.1	12.6	37.6	11	5.6	40.7	11.9	36.6	10.7	6.1
	595	67	19.4	54.7	16	34.5	10.1	4.3	51.9	15.2	33.3	9.8	4.9	48.8	14.3	32.1	9.4	5.5	47.7	14	31.7	9.3	5.7	45.6	13.4	30.9	9.1	6.1
	0.17	72	22.2	59.1	17.3	27.9	8.2	4.3	56	16.4	26.8	7.9	4.9	52.7	15.4	25.6	7.5	5.6	51.5	15.1	25.2	7.4	5.8	49.3	14.4	24.4	7.2	6.2
	2000	62	16.7	53.5	15.7	51	15	4.2	50	14.7	49.6	14.5	4.8	46.5	13.6	46.5	13.6	5.4	45.2	13.2	45.2	13.2	5.7	43	12.6	43	12.6	6.1
	944	67	19.4	59	17.3	42.2	12.4	4.3	55.8	16.3	41	12	4.9	52.4	15.4	39.8	11.7	5.6	51.1	15	39.3	11.5	5.8	48.4	14.2	38.3	11.2	6.2
	0.22	72	22.2	63.3	18.6	32.7	9.6	4.4	59.8	17.5	31.5	9.2	5	56.2	16.5	30.4	8.9	5.7	54.8	16.1	29.9	8.8	6	--	--	--	--	--
	2521	62	16.7	54.5	16	54.5	16	4.2	51.1	15	51.1	15	4.8	47.6	13.9	47.6	13.9	5.5	46.3	13.6	46.3	13.6	5.7	44.1	12.9	44.1	12.9	6.1
	1190	67	19.4	60.7	17.8	47	13.8	4.4	57.3	16.8	45.8	13.4	5	53.2	15.6	44.3	13	5.6	51.7	15.2	43.8	12.8	5.8	49.1	14.4	42.9	12.6	6.2
	0.26	72	22.2	65	19	35.6	10.4	4.4	61.3	18	34.5	10.1	5.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
51075	1769	62	16.7	65.4	19.2	55	16.1	5.5	61.2	17.9	53.2	15.6	6.3	57.1	16.7	51.4	15.1	7.1	55.6	16.3	50.7	14.9	7.3	53	15.5	49.6	14.6	7.8
	835	67	19.4	70.8	20.8	46	13.5	5.6	67.2	19.7	44.6	13.1	6.4	63.5	18.6	43.1	12.6	7.2	62.2	18.2	42.6	12.5	7.5	59.7	17.5	41.7	12.2	7.9
	0.17	72	22.2	76.4	22.4	36.8	10.8	5.7	72.4	21.2	35.4	10.4	6.5	68.4	20	34.1	10	7.3	67	19.6	33.6	9.8	7.6	--	--	--	--	--
	2400	62	16.7	67	19.7	63.5	18.6	5.5	62.9	18.4	61.8	18.1	6.3	59	17.3	59	17.3	7.1	57.5	16.9	57.5	16.9	7.4	55	16.1	55	16.1	7.9
	1133	67	19.4	74.4	21.8	52.7	15.4	5.7	70.5	20.7	51.2	15	6.5	66.4	19.5	49.7	14.6	7.3	64.6	18.9	49.1	14.4	7.5	--	--	--	--	--
	0.2	72	22.2	79.9	23.4	41	12	5.8	75.6	22.2	39.6	11.6	6.6	71.4	20.9	38.2	11.2	7.4	--	--	--	--	--	--	--	--	--	--
	3538	62	16.7	69.5	20.4	69.5	20.4	5.6	65.4	19.2	65.4	19.2	6.4	61.4	18	61.4	18	7.2	60	17.6	60	17.6	7.4	57.4	16.8	57.4	16.8	7.9
	1670	67	19.4	77.8	22.8	63.3	18.6	5.8	72.8	21.3	61.5	18	6.6	68	19.9	59.9	17.5	7.3	66.3	19.4	59.3	17.4	7.6	--	--	--	--	--
	0.26	72	22.2	83.5	24.5	47.6	14	5.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
51080	1769	62	16.7	69.3	20.3	56.7	16.6	5.9	65.2	19.1	54.9	16.1	6.9	60.3	17.7	52.8	15.5	7.9	58.5	17.2	52	15.2	8.2	55.6	16.3	50.7	14.9	8.7
	835	67	19.4	74.6	21.9	47.5	13.9	6.1	70.5	20.7	45.9	13.4	7.1	66.3	19.4	44.2	13	8	64.8	19	43.7	12.8	8.3	--	--	--	--	--
	0.17	72	22.2	80.2	23.5	38.2	11.2	6.3	75.8	22.2	36.6	10.7	7.2	71.4	20.9	35.1	10.3	8	69.8	20.5	34.5	10.1	8.3	--	--	--	--	--
	2900	62	16.7	72.7	21.3	71.7	21	6	67.9	19.9	67.9	19.9	7	63.2	18.5	63.2	18.5	7.9	61.6	18.1	61.6	18.1	8.2	--	--	--	--	--
	1369	67	19.4	80.4	23.6	59	17.3	6.3	75.8	22.2	57.4	16.8	7.2	70.8	20.7	55.6	16.3	8	68.8	20.2	54.9	16.1	8.3	--	--	--	--	--
	0.23	72	22.2	86	25.2	45.4	13.3	6.5	81.1	23.8	43.8	12.8	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3538	62	16.7	73.8	21.6	73.8	21.6	6.1	69.1	20.2	69.1	20.2	7	64.5	18.9	64.5	18.9	7.9	62.8	18.4	62.8	18.4	8.2	--	--	--	--	--
	1670	67	19.4	82.2	24.1	64.9	19	6.4	77	22.6	63	18.5	7.3	71.5	21	61.1	17.9	8	69.6	20.4	60.4	17.7	8.3	--	--	--	--	--
	0.26	72	22.2	87.8	25.7	49	14.4	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
51100	2387	62	16.7	86.6	25.4	73.5	21.5	6.4	81	23.7	71.1	20.8	7.3	75.4	22.1	68.7	20.1	8.2	73.4	21.5	67.8	19.9	8.6	70	20.5	66.4	19.4	9.2
	1127	67	19.4	94	27.6	61.5	18	6.5	89.3	26.2	59.6	17.5	7.4	84.3	24.7	57.7	16.9	8.4	82.4	24.2	57	16.7	8.7	79.1	23.2	55.7	16.3	9.3
	0.17	72	22.2	101.3	29.7	49.1	14.4	6.6	96.1	28.2	47.3	13.8	7.6	90.7	26.6	45.4	13.3	8.5	88.7	26	44.7	13.1	8.9	85.2	25	43.5	12.8	9.5
	3220	62	16.7	88.6	26	84.6	24.8	6.4	83.4	24.4	82.5	24.2	7.3	78	22.9	78	22.9	8.3	76.1	22.3	76.1	22.3	8.6	72.6	21.3	72.6	21.3	9.2
	1520	67	19.4	98.6	28.9	70.3	20.6	6.6	93.5	27.4	68.4	20	7.5	87.6	25.7	66.2	19.4	8.5	85.2	25	65.3	19.2	8.8	81.1	23.8	63.9	18.7	9.4
	0.2	72	22.2	105.7	31	54.5	16	6.7	100.1	29.3	52.7	15.4	7.6	94.5	27.7	50.9	14.9	8.6	--	--	--	--	--	--	--	--	--	--
	4774	62	16.7	92	27	92	27	6.5	86.7	25.4	86.7	25.4	7.4	81.3	23.8	81.3	23.8	8.3	79.3	23.3	79.3	23.3	8.7	75.8	22.2	75.8	22.2	9.3
	2253	67	19.4	102.6	30.1	84.6	24.8	6.6	96.2	28.2	82.3	24.1	7.6	89.8	26.3	80.1	23.5	8.5	87.6	25.7	79.4	23.3	8.9	83.6	24.5	78	22.9	9.4
	0.26	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52115	2674	62	16.7	98.3	28.8	82.9	24.3	8	91.3	26.8	79.9	23.4	9.2	84.6	24.8	76.9	22.6	10.4	82.2	24.1	75.9	22.3	10.9	78.2	22.9	74.3	21.8	11.6
	1262	67	19.4	106.6	31.3	69.4	20.3	8.1	100.9	29.6	67.1	19.7	9.3	95	27.8	64.8	19	10.5	92.9	27.2	64	18.8	10.8	89.2	26.1	62.6	18.4	11.5
	0.17	72	22.2	115.1	33.7	55.6	16.3	8.2	108.9	31.9	53.4	15.6	9.3	102.7	30.1	51.2	15	10.4	100.5	29.4	50.5	14.8	10.7	96.5	28.3	49.1	14.4	11.3
	4000	62	16.7	101.6	29.8	100.5	29.5	8	95.1	27.9	95.1	27.9	9.2	88.7	26	88.7	26	10.5	86.4	25.3	86.4	25.3	10.9	82.5	24.2	82.5	24.2	11.6
	1888	67	19.4	113.7	33.3	83.2	24.4	8.2	107.4	31.5	80.9	23.7	9.3	99.9	29.3	78.2	22.9	10.4	97.2	28.5	77.3	22.6	10.8	92.5	27.1	75.6	22.2	11.4
	0.22	72	22.2	121.9	35.7	64.1	18.8	8.2	115.3	33.8	62	18.2	9.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5347	62	16.7	104.4	30.6	104.4	30.6	8.1	98	28.7	98	28.7	9.2	91.6	26.8	91.6	26.8	10.5	89.3	26.2	89.3	26.2	10.9	85.3	25	85.3	25	11.5
	2524	67	19.4	117.2	34.3	95.5	28	8.2	109.3	32	92.8	27.2	9.3	101.9	29.9	90.2	26.4	10.4	99.3	29.1	89.3	26.2	10.8	94.7	27.8	87.7	25.7	11.3
	0.26	72	22.2	125.9	36.9	71.8	21.1	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52125	2674	62	16.7	104	30.5	85.5	25	8.2	98.3	28.8	82.9	24.3	9.4	90.7	26.6	79.6	23.3	10.7	88	25.8	78.4	23	11.1	83.3	24.4	76.4	22.4	12
	1262	67	19.4	112.5	33	71.8	21	8.4	106.6	31.3	69.4	20.3	9.6	100.4	29.4	66.9	19.6	10.8	98.1	28.7	66	19.3	11.3	93.9	27.5	64.4	18.9	12.1
	0.17	72	22.2	121.3	35.6	57.8	16.9	8.5	115	33.7	55.5	16.3	9.7	108.3	31.7	53.2	15.6	11	105.8	31	52.3	15.3	11.5	101.2	29.7	50.7	14.9	12.4
	4000	62	16.7	108.6	31.8	103.4	30.3	8.3	101.6	29.8	100.5	29.5	9.5	94.6	27.7	94.6	27.7	10.7	92	27	92	27	11.2	87.5	25.6	87.5	25.6	12
	1888	67	19.4	120	35.2	85.6	25.1	8.5	113.6	33.3	83.2	24.4	9.7	106.8	31.3	80.7	23.6	11	103.8	30.4	79.6	23.3	11.4	98.3	28.8	77.6	22.8	12.2
	0.22	72	22.2	128.8	37.8	66.4	19.5	8.6	121.7	35.7	64.1	18.8	9.9	114.4	33.5	61.7	18.1	11.3	111.7	32.7	60.8	17.8	11.8	--	--	--	--	--
	5347	62	16.7	111.2	32.6	111.2	32.6	8.4	104.5	30.6	104.5	30.6	9.5	97.5	28.6	97.5	28.6	10.8	94.9	27.8	94.9	27.8	11.2	90.3	26.5	90.3	26.5	12
	2524	67	19.4	124.5	36.5	98.1	28.7	8.6	117	34.3	95.5	28	9.8	108.6	31.8	92.5	27.1	11	105.5	30.9	91.5	26.8	11.5	100.2	29.4	89.6	26.3	12.3
	0.26	72	22.2	133.1	39	74.1	21.7	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52150	3438	62	16.7	130.8	38.3	108.6	31.8	10.7	123.3	36.2	105.3	30.8	12.2	114.8	33.7	101.5	29.8	13.8	111.8	32.8	100.2	29.4	14.4	106.5	31.2	98	28.7	15.4
	1623	67	19.4	141.5	41.5	91	26.7	10.9	134.5	39.4	88.2	25.8	12.5	127.2	37.3	85.3	25	14.1	124.5	36.5	84.3	24.7	14.7	119.6	35.1	82.4	24.1	15.6
	0.17	72	22.2	152.7	44.8	73.1	21.4	11.1	145.1	42.5	70.4	20.6	12.7	137.1	40.2	67.6	19.8	14.4	134.2	39.3	66.6	19.5	14.9	129	37.8	64.8	19	15.8
	5000	62	16.7	135.6	39.7	129.5	38	10.8	127.4	37.3	126.2	37	12.3	119.4	35	119.4	35	13.9	116.5	34.1	116.5	34.1	14.5	111.3	32.6	111.3	32.6	15.5
	2360	67	19.4	150.3	44.1	107.4	31.5	11.1	142.6	41.8	104.5	30.6	12.7	134.6	39.4	101.6	29.8	14.3	131	38.4	100.2	29.4	14.8	124.7	36.5	98	28.7	15.7
	0.21	72	22.2	161.6	47.4	83.3	24.4	11.4	153.1	44.9	80.5	23.6	13	144.6	42.4	77.8	22.8	14.5	141.6	41.5	76.8	22.5	15	--	--	--	--	--
	6875	62	16.7	139.4	40.9	139.4	40.9	10.9	131.3	38.5	131.3	38.5	12.4	123.3	36.1	123.3	36.1	14	120.4	35.3	120.4	35.3	14.6	115.1	33.7	115.1	33.7	15.6
	3245	67	19.4	156.5	45.9	124.9	36.6	11.2	146.9	43	121.5	35.6	12.8	137.1	40.2	118.1	34.6	14.3	133.6	39.2	116.9	34.3	14.9	127.5	37.4	114.8	33.6	15.8
	0.26	72	22.2	167.6	49.1	94.2	27.6	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 7

See Notes on page 13

GROSS CAPACITY RATINGS - 50 Hz

Model APMR	AFR cfm l/s	EWB		Condenser Entering Air Temperature																									
				95°F (35°C)					105°F (40.6°C)					114.8°F (46°C)					118.4°F (48°C)					125°F (51.7°C)				
				Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
52170	3667	62	16.7	144.3	42.3	118	34.6	11	136.6	40	114.5	33.6	12.7	126.8	37.2	110.2	32.3	14.6	123.1	36.1	108.6	31.8	15.4	116.8	34.2	105.9	31	16.5
	1731	67	19.4	155.7	45.6	99	29	11.2	147.7	43.3	95.8	28.1	13	139.3	40.8	92.4	27.1	14.9	136.2	39.9	91.2	26.7	15.6	130.5	38.3	89	26.1	16.7
	0.17	72	22.2	167.7	49.2	79.7	23.4	11.6	159.1	46.6	76.7	22.5	13.3	150.1	44	73.5	21.5	15.1	146.8	43	72.3	21.2	15.7	140.7	41.2	70.2	20.6	16.6
	6000	62	16.7	151.8	44.5	149	43.7	11.2	142.4	41.7	142.4	41.7	12.8	132.9	39	132.9	39	14.8	129.5	38	129.5	38	15.5	123.4	36.2	123.4	36.2	16.6
	2832	67	19.4	168.1	49.3	122.8	36	11.6	159.1	46.6	119.6	35	13.3	149.3	43.8	116.1	34	15.1	145.1	42.5	114.6	33.6	15.7	137.8	40.4	112	32.8	16.6
	0.23	72	22.2	180.3	52.8	94.7	27.7	12	170.5	50	91.5	26.8	13.6	160.6	47.1	88.3	25.9	15.1	--	--	--	--	--	--	--	--	--	--
	7333	62	16.7	154.2	45.2	154.2	45.2	11.2	145	42.5	145	42.5	12.9	135.5	39.7	135.5	39.7	14.8	132.1	38.7	132.1	38.7	15.5	126	36.9	126	36.9	16.6
	3461	67	19.4	172.2	50.5	135	39.6	11.7	162.4	47.6	131.6	38.6	13.4	150.9	44.2	127.6	37.4	15.1	146.8	43	126.1	37	15.7	139.6	40.9	123.7	36.2	16.6
	0.26	72	22.2	184.3	54	102.2	30	12.1	174.3	51.1	99	29	13.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52200	4278	62	16.7	166.9	48.9	136.9	40.1	12.9	158	46.3	133	39	14.7	146.6	43	128	37.5	16.6	142.5	41.8	126.2	37	17.3	135.4	39.7	123.1	36.1	18.5
	2019	67	19.4	180.2	52.8	114.9	33.7	13.1	171.1	50.2	111.2	32.6	15	161.5	47.3	107.4	31.5	16.9	158	46.3	106	31.1	17.6	151.7	44.5	103.6	30.4	18.8
	0.17	72	22.2	194.3	57	92.5	27.1	13.4	184.5	54.1	89	26.1	15.2	174.2	51.1	85.4	25	17.2	170.4	50	84.1	24.6	17.9	163.7	48	81.8	24	19
	7000	62	16.7	175.3	51.4	173.1	50.7	13	164.7	48.3	164.7	48.3	14.8	154	45.1	154	45.1	16.7	150.1	44	150.1	44	17.4	143.3	42	143.3	42	18.6
	3304	67	19.4	194.6	57	142.8	41.8	13.4	184.4	54	139	40.7	15.2	173	50.7	135	39.6	17.1	168.3	49.3	133.3	39.1	17.8	160.2	46.9	130.4	38.2	18.9
	0.23	72	22.2	208.7	61.2	109.9	32.2	13.6	197.6	57.9	106.3	31.2	15.5	186.5	54.7	102.8	30.1	17.5	--	--	--	--	--	--	--	--	--	--
	8556	62	16.7	178.3	52.2	178.3	52.2	13.1	167.7	49.2	167.7	49.2	14.9	157	46	157	46	16.8	153.2	44.9	153.2	44.9	17.5	146.3	42.9	146.3	42.9	18.6
	4038	67	19.4	199.4	58.4	157	46	13.5	187.8	55.1	153	44.8	15.3	174.9	51.3	148.4	43.5	17.2	170.3	49.9	146.9	43	17.9	162.4	47.6	144.1	42.2	19
	0.26	72	22.2	213.3	62.5	118.7	34.8	13.7	201.9	59.2	115.1	33.7	15.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52230	4278	62	16.7	191.1	56	153.8	45.1	15.4	180.1	52.8	148.7	43.6	17.8	166.6	48.8	142.5	41.8	20.2	161.7	47.4	140.3	41.1	21	153.2	44.9	136.6	40	22.4
	2019	67	19.4	206.3	60.5	129.8	38.1	15.7	195.1	57.2	125.1	36.7	18.1	183.5	53.8	120.3	35.3	20.5	179.3	52.5	118.6	34.8	21.3	171.9	50.4	115.7	33.9	22.6
	0.09	72	22.2	222.5	65.2	105.5	30.9	16	210.3	61.6	100.9	29.6	18.4	197.9	58	96.4	28.2	20.7	193.4	56.7	94.7	27.8	21.5	--	--	--	--	--
	7000	62	16.7	203.7	59.7	196.4	57.6	15.6	190.5	55.8	190.5	55.8	18	177.5	52	177.5	52	20.4	172.9	50.7	172.9	50.7	21.2	164.8	48.3	164.8	48.3	22.6
	3304	67	19.4	227.1	66.6	163.3	47.9	16.1	214	62.7	158.4	46.4	18.5	198.3	58.1	152.5	44.7	20.7	192.8	56.5	150.5	44.1	21.5	--	--	--	--	--
	0.13	72	22.2	243.2	71.3	126.5	37.1	16.6	229.2	67.2	121.8	35.7	18.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8556	62	16.7	208.2	61	208.2	61	15.7	195.1	57.2	195.1	57.2	18.1	182	53.3	182	53.3	20.5	177.3	52	177.3	52	21.3	169.2	49.6	169.2	49.6	22.6
	4038	67	19.4	233.1	68.3	180	52.8	16.3	216.8	63.5	174.2	51	18.6	201.4	59	168.7	49.4	20.8	196.1	57.5	166.8	48.9	21.5	--	--	--	--	--
	0.14	72	22.2	249.7	73.2	137.1	40.2	16.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52240	5362	62	16.7	202.4	59.3	168.6	49.4	14.5	190	55.7	163.1	47.8	16.7	176.1	51.6	157.1	46	19.1	171.1	50.2	154.9	45.4	20	162.4	47.6	151.2	44.3	21.5
	2531	67	19.4	219.2	64.2	141.3	41.4	14.7	207.9	60.9	136.8	40.1	16.9	195.8	57.4	132	38.7	19.4	191.3	56.1	130.3	38.2	20.2	183.2	53.7	127.2	37.3	21.7
	0.17	72	22.2	236.5	69.3	113.5	33.3	15	224.2	65.7	109.1	32	17.3	211.1	61.9	104.5	30.6	19.6	206.3	60.5	102.8	30.1	20.4	197.8	58	99.9	29.3	21.8
	8000	62	16.7	210	61.6	203.9	59.7	14.6	197	57.7	197	57.7	16.8	183.8	53.9	183.8	53.9	19.2	179	52.5	179	52.5	20.1	170.5	50	170.5	50	21.6
	3776	67	19.4	233.7	68.5	168.8	49.5	14.9	221.2	64.8	164.2	48.1	17.2	206.8	60.6	159	46.6	19.5	200.9	58.9	156.9	46	20.4	190.6	55.9	153.3	44.9	21.8
	0.22	72	22.2	250.9	73.5	130.6	38.3	15.3	237.3	69.5	126.1	37	17.6	223.3	65.4	121.6	35.6	19.8	--	--	--	--	--	--	--	--	--	--
	10725	62	16.7	215.6	63.2	215.6	63.2	14.6	202.8	59.4	202.8	59.4	16.8	189.5	55.5	189.5	55.5	19.3	184.6	54.1	184.6	54.1	20.1	176	51.6	176	51.6	21.6
	5062	67	19.4	242.3	71	194.1	56.9	15.1	226.5	66.4	188.6	55.3	17.3	210.4	61.7	183	53.6	19.6	204.7	60	181.1	53.1	20.4	194.9	57.1	177.7	52.1	21.8
	0.26	72	22.2	259.3	76	146.3	42.9	15.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52270	5362	62	16.7	226.3	66.3	186.6	54.7	16.8	210.9	61.8	179.6	52.6	19.4	194.9	57.1	172.4	50.5	22.1	189.2	55.5	169.9	49.8	23.1	179.3	52.6	165.6	48.5	24.8
	2531	67	19.4	244.9	71.8	157	46	17.2	231.3	67.8	151.4	44.4	19.9	217.1	63.6	145.6	42.7	22.6	211.8	62.1	143.5	42.1	23.6	202.4	59.3	139.8	41	25.3
	0.09	72	22.2	263.7	77.3	126.6	37.1	17.6	248.8	72.9	121.1	35.5	20.3	233.4	68.4	115.5	33.9	23.1	227.7	66.8	113.5	33.3	24	217.7	63.8	110	32.2	25.7
	8000	62	16.7	236.6	69.3	227.7	66.8	17.1	221.5	64.9	221.5	64.9	19.6	206.1	60.4	206.1	60.4	22.4	200.6	58.8	200.6	58.8	23.4	190.6	55.9	190.6	55.9	25
	3776	67	19.4	264.5	77.5	189.7	55.6	17.6	247.8	72.6	183.4	53.8	20.2	229.1	67.1	176.4	51.7	22.9	222.5	65.2	174	51	23.9	211	61.8	169.8	49.8	25.5
	0.12	72	22.2	282.8	82.9	146.9	43	17.9	266.1	78	141.3	41.4	20.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10725	62	16.7	244.9	71.8	244.9	71.8	17.2	229.6	67.3	229.6	67.3	19.8	214	62.7	214	62.7	22.6	208.2	61	208.2	61	23.5	198.1	58.1	198.1	58.1	25.2
	5062	67	19.4	271.6	79.6	218.2	64	17.7	253	74.2	211.7	62	20.4	234.9	68.9	205.3	60.2	23.1	228.5	67	203.1	59.5	24.1	217.3	63.7	199.1	58.4	25.7
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52300	5958	62	16.7	254.8	74.7	208.9	61.2	18.6	238.6	69.9	201.5	59.1	21.2	220.5	64.6	193.3	56.7	23.9	214	62.7	190.5	55.8	24.9	202.7	59.4	185.5	54.4	26.7
	2812	67	19.4	275.7	80.8	175.9	51.6	19	260.8	76.4	169.8	49.8	21.7	244.9	71.8	163.3	47.9	24.4	239	70.1	160.9	47.2	25.4	228.3	66.9	156.6	45.9	27.1
	0.09	72	22.2	297.3	87.1	142.2	41.7	19.4	280.9	82.3	136.1	39.9	22	263.4	77.2	129.8	38	24.8	256.9	75.3	127.5	37.4	25.7	245.3	71.9	123.4	36.2	27.4
	9100	62	16.7	267.7	78.5	258	75.6	18.9	250.9	73.5	250.9	73.5	21.5	233.7	68.5	233.7	68.5	24.2	227.4	66.7	227.4	66.7	25.2	216.2	63.4	216.2	63.4	26.9
	4295	67	19.4	299.5	87.8	214.9	63	19.4	281.4	82.5	208.1	61	22	259.9	76.2	200.1	58.6	24.7	252.3	73.9	197.3	57.8	25.7	239	70	192.4	56.4	27.3
	0.12	72	22.2	320.8	94	166.6	48.8	19.7	301.9	88.5	160.3	47	22.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11917	62	16.7	276.3	81	276.3	81	19	259.4	76	259.4	76	21.6	241.8	70.9	241.8	70.9	24.4	235.3	69	235.3	69	25.4	223.8	65.6	223.8	65.6	27.1
	5624	67	19.4	307.6	90.2	244.6	71.7	19.5	286.6	84	237.1	69.5	22.1	265.7	77.9	229.8	67.4	24.8	258.3	75.7	227.2	66.6	25.8	245.2	71.9	222.6	65.2	27.4
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52340	5958	62	16.7	281.1	82.4	221.3	64.9	22.8	266.2	78	214.3	62.8	25.8	250.7	73.5	207	60.7	28.9	244.2	71.6	204	59.8	29.9	231.5	67.9	198.3	58.1	31.8
	2812	67	19.4	302.4	88.6	187.3	54.9	23.4	287.2	84.2	180.8	53	26.4	271.4	79.6	174.1	51	29.4	265.6	77.8	171.7	50.3	30.5	255.1	74.8	167.4	49.1	32.4
	0.09	72	22.2	326	95.5	153.1	44.9	24	309.5	90.7	146.8	43	26.9	292.5	85.7	140.4	41.2	29.9	286.3	83.9	138.1	40.5	31	274.8	80.5	133.9	39.2	32.8
	10500	62	16.7	304.4	89.2	292.4	85.7	23.4	285.8	83.8	284.7	83.5	26.3	267.5	78.4	267.5	78.4	29.3	260.9	76.5	260.9	76.5	30.4	249.2	73	249.2	73	32.2
	4955	67	19.4	337.6	98.9	242.5	71.1	24.2	319.4	93.6	235.7	69.1	27.2	298.9	87.6	228	66.8	30.1	290.7	85.2	225	66	31.1	276.5	81	219.8	64.4	32.9
	0.13	72	22.2	361.4	105.9	187.7	55	24.6	341.3	100	181.1	53.1	27.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11917	62	16.7	308.2	90.3	308.2	90.3	23.5	289.8	84.9	289.8	84.9	26.4	271.4	79.6	271.4	79.6	29.4	264.8	77.6	264.8	77.6	30.5	253	74.2	253	74.2	32.3
	5624	67	19.4	343.7	100.7	257.7	75.5	24.3	323.8	94.9	250.4	73.4	27.3	301.2	88.3	242.3	71	30.1	293.2	85.9	239.5	70.2	31.1	279.1	81.8	234.5	68.7	32.9
	0.14	72	22.2	367.2	107.6	197.2	57.8	24.7	346.7	101.6	190.5	55.8	27.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8

Notes:

1. See Page 2 for legend.
2. Ratings are based on 80°F (27°C) DB evaporator air entering temperature.
3. Direct interpolation is permissible. Do not extrapolate.
4. SKM Computer Selection Software are available for quick and accurate selections.
5. Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

* Power input (PI) mentioned in this page is for compressor only and should not be used for cable or fuse selection. MCA and MFA values given in the electrical data (page 19 & 20) should be referred for the same.

GROSS CAPACITY RATINGS - 50HZ (HIGH EFFICIENCY)

Model APMR	AFR cfm l/s	EWB		Condenser Entering Air Temperature																									
				95°F (35°C)					105°F (40.6°C)					114.8°F (46°C)					118.4°F (48°C)					125°F (51.7°C)				
				Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
	1260	62	16.7	48.1	14.1	44.8	13.1	3.8	45.1	13.2	43.4	12.7	4.4	42.0	12.3	42.0	12.3	5.0	40.9	12.0	40.9	12.0	5.3	39.0	11.4	39.0	11.4	5.7
	595	66.2	19.0	52.3	15.3	39.8	11.7	3.9	49.7	14.6	38.7	11.3	4.4	46.8	13.7	37.5	11.0	5.1	45.7	13.4	37.1	10.9	5.3	43.2	12.7	36.1	10.6	5.6
	0.17	72	22.2	57.3	16.8	32.2	9.4	3.9	54.4	16.0	31.2	9.1	4.5	51.4	15.1	30.1	8.8	5.0	50.3	14.7	29.7	8.7	5.2	48.3	14.1	29.0	8.5	5.5
	1670	62	16.7	49.7	14.6	49.7	14.6	3.9	46.7	13.7	46.7	13.7	4.4	43.7	12.8	43.7	12.8	5.0	42.6	12.5	42.6	12.5	5.3	40.7	11.9	40.7	11.9	5.7
51050G	788	66.2	19.0	54.9	16.1	45.7	13.4	3.9	51.8	15.2	44.5	13.1	4.4	48.0	14.1	43.1	12.6	5.1	46.7	13.7	42.6	12.5	5.3	44.5	13.0	41.8	12.2	5.6
	0.2	72	22.2	60.0	17.6	36.3	10.6	3.9	56.9	16.7	35.2	10.3	4.5	53.7	15.7	34.2	10.0	5.0	52.5	15.4	33.8	9.9	5.2	50.4	14.8	33.1	9.7	5.5
	2521	62	16.7	52.1	15.3	52.1	15.3	3.9	49.2	14.4	49.2	14.4	4.4	46.1	13.5	46.1	13.5	5.1	44.9	13.2	44.9	13.2	5.3	42.9	12.6	42.9	12.6	5.6
	1190	66.2	19.0	56.9	16.7	56.4	16.5	3.9	53.4	15.7	53.4	15.7	4.5	50.0	14.6	50.0	14.6	5.0	48.7	14.3	48.7	14.3	5.2	46.5	13.6	46.5	13.6	5.6
	0.26	72	22.2	63.2	18.5	43.8	12.8	4.0	59.8	17.5	42.8	12.5	4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1260	62	16.7	53.2	15.6	49.2	14.4	3.9	50.2	14.7	47.8	14.0	4.4	46.9	13.7	46.3	13.6	5.0	45.7	13.4	45.7	13.4	5.3	43.5	12.7	43.5	12.7	5.7
	595	66.2	19.0	58.1	17.0	43.9	12.9	4.0	55.3	16.2	42.7	12.5	4.5	52.2	15.3	41.4	12.1	5.1	50.7	14.8	40.8	11.9	5.3	47.9	14.1	39.7	11.6	5.7
	0.09	72	22.2	63.6	18.6	35.7	10.5	4.0	60.5	17.7	34.5	10.1	4.5	57.0	16.7	33.2	9.7	5.2	55.7	16.3	32.8	9.6	5.4	53.4	15.6	31.9	9.4	5.9
	2000	62	16.7	57.1	16.7	57.1	16.7	3.9	54.1	15.9	54.1	15.9	4.5	50.8	14.9	50.8	14.9	5.1	49.6	14.5	49.6	14.5	5.3	47.2	13.8	47.2	13.8	5.7
51060G	944	66.2	19.0	62.4	18.3	55.8	16.3	4.0	58.7	17.2	54.4	15.9	4.5	55.0	16.1	53.0	15.5	5.1	53.6	15.7	52.5	15.4	5.4	51.1	15.0	51.1	15.0	5.8
	0.12	72	22.2	69.0	20.2	44.1	12.9	4.0	65.4	19.2	42.8	12.6	4.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2521	62	16.7	59.0	17.3	59.0	17.3	4.0	55.9	16.4	55.9	16.4	4.5	52.5	15.4	52.5	15.4	5.1	53.4	15.6	53.4	15.6	5.4	50.8	14.9	50.8	14.9	5.8
	1190	66.2	19.0	63.8	18.7	63.3	18.6	4.0	60.3	17.7	60.3	17.7	4.5	56.5	16.6	56.5	16.6	5.2	55.0	16.1	55.0	16.1	5.4	52.4	15.4	52.4	15.4	5.9
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1769	62	16.7	66.7	19.6	62.5	18.3	4.9	62.9	18.4	60.8	17.8	5.6	59.1	17.3	59.1	17.3	6.4	57.8	16.9	57.8	16.9	6.7	55.3	16.2	55.3	16.2	7.3
	835	66.2	19.0	72.6	21.3	55.5	16.3	5.0	69.2	20.3	54.1	15.9	5.7	65.6	19.2	52.7	15.4	6.5	64.2	18.8	52.1	15.3	6.8	61.0	17.9	50.8	14.9	7.4
	0.17	72	22.2	79.5	23.3	44.9	13.2	5.1	75.8	22.2	43.6	12.8	5.8	71.9	21.1	42.2	12.4	6.7	70.4	20.6	41.6	12.2	7.0	67.6	19.8	40.7	11.9	7.5
	2400	62	16.7	69.1	20.2	69.1	20.2	5.0	65.4	19.2	65.4	19.2	5.7	61.7	18.1	61.7	18.1	6.5	60.3	17.7	60.3	17.7	6.8	57.7	16.9	57.7	16.9	7.3
51075G	1133	66.2	19.0	76.5	22.4	64.6	18.9	5.1	72.1	21.1	63.0	18.5	5.8	67.4	19.8	61.2	17.9	6.6	65.8	19.3	60.6	17.8	6.9	62.8	18.4	59.5	17.4	7.4
	0.2	72	22.2	83.5	24.5	51.1	15.0	5.2	79.4	23.3	49.8	14.6	5.9	75.2	22.0	48.4	14.2	6.7	73.6	21.6	47.9	14.0	7.0	70.7	20.7	46.9	13.8	7.5
	3538	62	16.7	72.2	21.2	72.2	21.2	5.0	68.5	20.1	68.5	20.1	5.7	64.7	19.0	64.7	19.0	6.5	63.2	18.5	63.2	18.5	6.8	60.5	17.7	60.5	17.7	7.4
	1670	66.2	19.0	78.7	23.1	78.7	23.1	5.1	74.3	21.8	74.3	21.8	5.8	69.9	20.5	69.9	20.5	6.6	68.3	20.0	68.3	20.0	6.9	65.3	19.2	65.3	19.2	7.4
	0.26	72	22.2	87.6	25.7	61.1	17.9	5.3	83.2	24.4	59.8	17.5	6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2387	62	16.7	79.0	23.2	79.0	23.2	5.5	74.7	21.9	74.7	21.9	6.2	70.2	20.6	70.2	20.6	7.2	68.4	20.0	68.4	20.0	7.5	65.3	19.1	65.3	19.1	8.1
	1127	66.2	19.0	85.7	25.1	73.1	21.4	5.6	80.7	23.7	71.1	20.8	6.4	75.6	22.2	69.2	20.3	7.3	73.7	21.6	68.5	20.1	7.6	70.4	20.6	67.2	19.7	8.1
	0.09	72	22.2	95.3	27.9	58.5	17.1	5.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2900	62	16.7	81.7	23.9	81.7	23.9	5.5	77.2	22.6	77.2	22.6	6.3	75.4	22.1	75.4	22.1	7.3	73.5	21.6	73.5	21.6	7.6	70.1	20.5	70.1	20.5	8.1
51080G	1369	66.2	19.0	88.0	25.8	81.5	23.9	5.7	83.0	24.3	79.6	23.3	6.5	77.7	22.8	77.7	22.8	7.3	75.8	22.2	75.8	22.2	7.6	72.4	21.2	72.4	21.2	8.1
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4774	62	16.7	90.5	26.5	90.5	26.5	5.7	85.1	24.9	85.1	24.9	6.5	79.6	23.3	79.6	23.3	7.3	77.5	22.7	77.5	22.7	7.6	73.8	21.6	73.8	21.6	8.1
	2253	66.2	19.0	93.3	27.3	93.3	27.3	5.8	87.9	25.8	87.9	25.8	6.6	82.5	24.2	82.5	24.2	7.4	--	--	--	--	--	--	--	--	--	--
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2387	62	16.7	87.2	25.6	87.0	25.5	6.4	82.4	24.1	82.4	24.1	7.3	77.3	22.7	77.3	22.7	8.3	75.5	22.1	75.5	22.1	8.6	72.2	21.2	72.2	21.2	9.2
	1127	66.2	19.0	95.9	28.1	77.2	22.6	6.5	89.9	26.3	74.8	21.9	7.4	83.9	24.6	72.4	21.2	8.4	81.8	24.0	71.6	21.0	8.7	78.2	22.9	70.1	20.6	9.3
	0.09	72	22.2	105.0	30.8	61.9	18.1	6.7	99.4	29.1	59.9	17.6	7.6	93.9	27.5	58.0	17.0	8.6	--	--	--	--	--	--	--	--	--	--
	3220	62	16.7	91.7	26.9	91.7	26.9	6.5	86.7	25.4	86.7	25.4	7.4	81.3	23.8	81.3	23.8	8.3	79.4	23.3	79.4	23.3	8.7	79.2	23.2	79.2	23.2	9.3
51100G	1520	66.2	19.0	99.1	29.0	90.4	26.5	6.6	93.4	27.4	88.2	25.9	7.5	87.6	25.7	86.1	25.2	8.5	85.5	25.0	85.3	25.0	8.8	81.7	23.9	81.7	23.9	9.4
	0.11	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4774	62	16.7	100.7	29.5	100.7	29.5	6.6	94.9	27.8	94.9	27.8	7.5	88.8	26.0	88.8	26.0	8.5	86.6	25.4	86.6	25.4	8.8	82.7	24.2	82.7	24.2	9.4
	2253	66.2	19.0	103.6	30.4	103.6	30.4	6.7	97.7	28.6	97.7	28.6	7.6	91.7	26.9	91.7	26.9	8.6	89.6	26.3	89.6	26.3	8.9	85.7	25.1	85.7	25.1	9.5
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3667	62	16.7	107.1	31.4	107.1	31.4	7.5	101.3	29.7	101.3	29.7	8.6	95.0	27.9	95.0	27.9	9.8	92.6	27.1	92.6	27.1	10.3	88.4	25.9	88.4	25.9	11.0
	1731	66.2	19.0	116.6	34.2	101.5	29.8	7.6	109.9	32.2	99.0	29.0	8.6	102.9	30.2	96.4	28.2	9.8	100.4	29.4	95.4	28.0	10.2	95.9	28.1	93.7	27.5	10.9
	0.17	72	22.2	130.0	38.1	80.9	23.7	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5000	62	16.7	111.8	32.8	111.8	32.8	7.6	105.6	31.0	105.6	31.0	8.6	103.4	30.3	103.4	30.3	9.8	100.8	29.5	100.8	29.5	10.2	96.1	28.2	96.1	28.2	10.9
52115G	2360	66.2	19.0	120.7	35.4	120.1	35.2	7.6	113.8	33.4	113.8	33.4	8.6	106.7	31.3	106.7	31.3	9.8	104.1	30.5	104.1	30.5	10.2	99.5	29.2	99.5	29.2	10.8
	0.2	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7333	62	16.7	121.4	35.6	121.4	35.6	7.6	114.4	33.5	114.4	33.5	8.6	107.0	31.4	107.0	31.4	9.8	104.3	30.6	104.3	30.6	10.2	99.5	29.2	99.5	29.2	10.8
	3461	66.2	19.0	125.1	36.7	125.1	36.7	7.6	118.0	34.6	118.0	34.6	8.7	110.8	32.5	110.8	32.5	9.7	108.2	31.7	108.2	31.7	10.1	103.6	30.4	103.6	30.4	10.7
	0.26	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4280	62	16.7	144.1	42.2	144.1	42.2	10.0	136.6	40.0	136.6	40.0	11.5	128.9	37.8	128.9	37.8	13.1	126.0	36.9	126.0	36.9	13.7	120.6	35.3	120.6	35.3	14.7
	2020	66.2	19.0	157.0	46.0	132.4	38.8	10.2	148.2	43.4	128.9	37.8	11.7	139.4	40.9	125.5	36.8	13.3	136.2	39.9	124.2	36.4	13.9	130.3	38.2	122.0	35.8	14.9
	0.09	72	22.2	174.6	51.2	106.2	31.1	10.5	165.9	48.6	103.1	30.2	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5000	62	16.7	148.1	43.4	148.1	43.4	10.1	140.5	41.2	140.5	41.2	11.5	132.4	38.8	132.4	38.8	13.1	129.4	37.9	129.4	37.9	13.7	129.2	37.9	129.2	37.9	14.9
52150G	2360	66.2	19.0	160.3	47.0	144.2	42.3	10.3	151.6	44.4	140.9	41.3	11.7	142.7	41.8	137.6	40.3	13.3	139.4	40.8	136.3	40.0	13.9	133.4	39.1	133.4	39.1	14.9
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8550	62	16.7	166.1	48.7	166.1	48.7	10.4	156.8	46.0	156.8	46.0	11.8	147.2	43.1	147.2	43.1	13.4	143.6	42.1	143.6	42.1	14.0	137.2	40.2	137.2	40.2	15.0
	4035	66.2	19.0	171.2	50.2	171.2	50.2	10.5	162.0	47.5	162.0	47.5	11.9	152.5	44.7	152.5	44.7	13.5	149.0	43.7	149.0	43.7	14.1	--	--	--	--	--
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4280	62	16.7	153.4	45.0	153.4	45.0	10.8	145.0	42.5	145.0	42.5	12.4	136.1	39.9	136.1	39.9	14.4	132.8	38.9	132.8	38.9	15.1	126.8	37.2	126.8	37.2	16.3
	2020	66.2	19.0	168.2	49.3	136.9	40.1	11.2	157.8	46.2	132.7	38.9	12.8	147.4	43.2	128.6	37.7	14.6	143.7	42.1	127.1	37.3	15.2	137.1	40.2	124.6	36.5	16.3
	0.09	72	22.2	184.8	54.2	109.7	32.2	11.6	175.0	51.3	106.3	31.2	13.2	165.0	48.4	102.8	30.1	14.7	--	--	--	--	--	--	--	--	--	--
	6000	62	16.7	162.3	47.6	162.3	47.6	11.0	153.5	45.0	153.5	45.0	12.6	149.9	43.9	149.9	43.9	14.6	146.2	42.8	146.2	42.8	15.2	139.3	40.8	139.3	40.8	16.3
52170G	2832	66.2	19.0	174.9	51.3	164.3	48.2	11.3	164.9	48.3	160.5	47.1	12.9	154.5	45.3	154.5	45.3	14.7	150.7	44.2	150.7	44.2	15.3	143.8	42.2	143.8	42.2	16.3
	0.11	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8550	62	16.7	177.0	51.9	177.0	51.9	11.4	166.6	48.8	166.6	48.8	13.0	155.8	45.7	155.8	45.7	14.7	151.8	44.5	151.8	44.5	15.3	144.6	42.4	144.6	42.4	16.3
	4035	66.2	19.0	182.1	53.4	182.1	53.4	11.5	171.6	50.3	171.6	50.3	13.1	161.0	47.2	161.0	47.2	14.7	157.0	46.0	157.0	46.0	15.3	150.0	44.0	150.0	44.0	16.2
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6000	62	16.7	190.5	55.8	190.5	55.8	12.1	181.1	53.1	181.1	53.1	13.7	170.4	50.0	170.4	50.0	15.6	166.4	48.8	166.4	48.8	16.3	166.1	48.7	166.1	48.7	17.7
	2832	66.2	19.0	206.3	60.5	180.1	52.8	12.2	195.4	57.3	175.8	51.5	13.9	183.8	53.9	171.4	50.2	15.7	179.4	52.6	169.8	49.8	16.5	171.5	50.3	166.8	48.9	17.7
	0.09	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7000	62	16.7	195.7	57.4	195.7	57.4	12.1	185.8	54.4	185.8	54.4	13.7	182.3	53.4	182.3	53.4	15.7	177.9	52.1	177.9	52.1	16.4	169.8	49.8	169.8	49.8	17.7
52200G	3304	66.2	19.0	210.9	61.8	196.7	57.7	12.3	199.8	58.6	192.5	56.4	13.9	187.9	55.1	187.9	55.1	15.8	183.4	53.8	183.4	53.8	16.5	175.4	51.4	175.4	51.4	17.8
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11900	62	16.7	217.7	63.8	217.7	63.8	12.3	205.6	60.3	205.6	60.3	14.0	192.9	56.5	192.9	56.5	15.9	188.2	55.2	188.2	55.2	16.6	179.6	52.6	179.6	52.6	17.9
	5616	66.2	19.0	224.7	65.9	224.7	65.9	12.4	212.6	62.3	212.6	62.3	14.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 9

See Notes on page 15

GROSS CAPACITY RATINGS - 50HZ (HIGH EFFICIENCY)

Model APMR	AFR cfm l/s	EWB		Condenser Entering Air Temperature																							
				95°F (35°C)					105°F (40.6°C)					114.8°F (46°C)					118.4°F (48°C)					125°F (51.7°C)				
				Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
	6000	62	16.7	213.2	62.5	213.2	62.5	14.0	201.6	59.1	201.6	59.1	16.0	189.2	55.5	189.2	55.5	18.5	184.5	54.1	184.5	54.1	19.4	176.1	51.6	176.1	51.6	21.0
	2832	66.2	19.0	234.3	68.7	191.2	56.0	14.2	219.9	64.5	185.4	54.4	16.3	205.3	60.2	179.7	52.7	18.7	200.0	58.6	177.6	52.1	19.6	190.6	55.9	174.0	51.0	21.1
	0.09	72	22.2	258.0	75.6	153.4	45.0	14.6	244.6	71.7	148.7	43.6	16.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7000	62	16.7	219.1	64.2	219.1	64.2	14.0	207.2	60.7	207.2	60.7	16.1	194.5	57.0	194.5	57.0	18.5	189.5	55.6	189.5	55.6	19.4	180.8	53.0	180.8	53.0	21.0
52230G	3304	66.2	19.0	238.2	69.8	207.2	60.7	14.3	224.4	65.8	201.8	59.1	16.4	210.1	61.6	196.4	57.6	18.8	204.8	60.0	194.4	57.0	19.6	195.1	57.2	190.8	55.9	21.1
	0.1	72	22.2	265.0	77.7	165.1	48.4	14.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11900	62	16.7	246.6	72.3	246.6	72.3	14.4	232.4	68.1	232.4	68.1	16.5	217.1	63.6	217.1	63.6	18.9	211.4	62.0	211.4	62.0	19.7	201.2	59.0	201.2	59.0	21.2
	5616	66.2	19.0	253.9	74.4	253.9	74.4	14.5	239.6	70.2	239.6	70.2	16.7	224.4	65.8	224.4	65.8	19.0	218.9	64.1	218.9	64.1	19.8	209.0	61.2	209.0	61.2	21.2
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6000	62	16.7	213.2	62.5	213.2	62.5	14.0	201.6	59.1	201.6	59.1	16.0	189.2	55.5	189.2	55.5	18.5	184.5	54.1	184.5	54.1	19.4	176.1	51.6	176.1	51.6	21.0
	2832	66.2	19.0	234.3	68.7	191.2	56.0	14.2	219.9	64.5	185.4	54.4	16.3	205.3	60.2	179.7	52.7	18.7	200.0	58.6	177.6	52.1	19.6	190.6	55.9	174.0	51.0	21.1
	0.09	72	22.2	258.0	75.6	153.4	45.0	14.6	244.6	71.7	148.7	43.6	16.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8000	62	16.7	224.1	65.7	224.1	65.7	14.1	212.0	62.1	212.0	62.1	16.2	198.7	58.2	198.7	58.2	18.6	202.2	59.3	202.2	59.3	19.6	192.6	56.5	192.6	56.5	21.1
52240G	3776	66.2	19.0	242.3	71.0	223.2	65.4	14.3	228.7	67.0	218.1	63.9	16.5	214.0	62.7	212.5	62.3	18.8	208.6	61.1	208.6	61.1	19.7	198.9	58.3	198.9	58.3	21.2
	0.11	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11900	62	16.7	246.6	72.3	246.6	72.3	14.4	232.4	68.1	232.4	68.1	16.5	217.1	63.6	217.1	63.6	18.9	211.4	62.0	211.4	62.0	19.7	201.2	59.0	201.2	59.0	21.2
	5616	66.2	19.0	253.9	74.4	253.9	74.4	14.5	239.6	70.2	239.6	70.2	16.7	224.4	65.8	224.4	65.8	19.0	218.9	64.1	218.9	64.1	19.8	209.0	61.2	209.0	61.2	21.2
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7150	62	16.7	243.0	71.2	243.0	71.2	16.2	229.2	67.2	229.2	67.2	18.6	214.5	62.9	214.5	62.9	21.3	209.0	61.2	209.0	61.2	22.3	198.6	58.2	198.6	58.2	24.1
	3374	66.2	19.0	264.8	77.6	222.2	65.1	16.5	248.3	72.8	215.6	63.2	18.9	231.5	67.8	209.1	61.3	21.6	225.4	66.1	206.7	60.6	22.6	214.2	62.8	202.5	59.4	24.4
	0.09	72	22.2	293.2	85.9	177.9	52.1	16.8	276.7	81.1	172.1	50.4	19.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8000	62	16.7	247.9	72.7	247.9	72.7	16.2	233.8	68.5	233.8	68.5	18.6	218.5	64.0	218.5	64.0	21.4	212.8	62.4	212.8	62.4	22.4	211.2	61.9	211.2	61.9	24.4
52270G	3776	66.2	19.0	268.5	78.7	236.0	69.2	16.5	252.2	73.9	229.7	67.3	19.0	235.3	69.0	223.4	65.5	21.7	229.0	67.1	221.0	64.8	22.7	217.8	63.8	216.8	63.5	24.5
	0.1	72	22.2	298.7	87.5	187.8	55.0	16.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14300	62	16.7	279.5	81.9	279.5	81.9	16.6	262.1	76.8	262.1	76.8	19.1	243.9	71.5	243.9	71.5	21.9	237.1	69.5	237.1	69.5	22.9	225.0	66.0	225.0	66.0	24.7
	6749	66.2	19.0	287.8	84.4	287.8	84.4	16.7	270.4	79.2	270.4	79.2	19.3	252.5	74.0	252.5	74.0	22.1	245.9	72.1	245.9	72.1	23.1	--	--	--	--	--
	0.14	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7150	62	16.7	267.1	78.3	267.1	78.3	18.6	251.6	73.7	251.6	73.7	21.2	235.2	68.9	235.2	68.9	24.0	229.1	67.1	229.1	67.1	25.0	217.8	63.8	217.8	63.8	26.7
	3374	66.2	19.0	291.6	85.5	238.0	69.7	19.1	272.7	79.9	230.3	67.5	21.6	253.9	74.4	222.7	65.3	24.3	247.1	72.4	220.1	64.5	25.3	234.8	68.8	215.3	63.1	27.0
	0.05	72	22.2	322.4	94.5	191.5	56.1	19.4	303.7	89.0	184.9	54.2	22.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9100	62	16.7	279.4	81.9	279.4	81.9	18.8	263.1	77.1	263.1	77.1	21.4	255.6	74.9	255.6	74.9	24.3	248.7	72.9	248.7	72.9	25.3	236.1	69.2	236.1	69.2	27.0
52300G	4295	66.2	19.0	301.3	88.3	272.3	79.8	19.2	282.8	82.9	265.2	77.7	21.7	263.3	77.2	257.8	75.6	24.5	256.2	75.1	255.2	74.8	25.4	243.5	71.4	243.5	71.4	27.1
	0.07	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14300	62	16.7	310.7	91.1	310.7	91.1	19.3	290.7	85.2	290.7	85.2	21.8	269.9	79.1	269.9	79.1	24.6	262.2	76.8	262.2	76.8	25.5	248.5	72.8	248.5	72.8	27.2
	6749	66.2	19.0	320.2	93.9	320.2	93.9	19.4	300.2	88.0	300.2	88.0	21.9	279.4	81.9	279.4	81.9	24.7	--	--	--	--	--	--	--	--	--	--
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7150	62	16.7	297.0	87.1	282.9	82.9	22.9	280.1	82.1	275.2	80.7	25.8	263.0	77.1	263.0	77.1	28.8	256.8	75.3	256.8	75.3	29.9	245.6	72.0	245.6	72.0	31.8
	3374	66.2	19.0	327.1	95.9	252.8	74.1	23.6	307.4	90.1	244.5	71.7	26.5	286.4	83.9	235.8	69.1	29.4	279.0	81.8	232.8	68.2	30.5	266.0	78.0	227.6	66.7	32.3
	0.05	72	22.2	355.7	104.3	203.8	59.7	24.2	336.5	98.6	196.7	57.6	27.1	316.9	92.9	189.6	55.6	30.1	309.7	90.8	187.0	54.8	31.1	--	--	--	--	--
	10500	62	16.7	317.9	93.2	317.9	93.2	23.4	300.3	88.0	300.3	88.0	26.3	281.8	82.6	281.8	82.6	29.3	275.1	80.6	275.1	80.6	30.4	273.6	80.2	273.6	80.2	32.5
52340G	4955	66.2	19.0	342.8	100.5	310.1	90.9	23.9	322.7	94.6	302.4	88.6	26.8	302.3	88.6	294.8	86.4	29.8	294.9	86.4	292.0	85.6	30.8	281.7	82.6	281.7	82.6	32.6
	0.08	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14300	62	16.7	333.4	97.7	333.4	97.7	23.8	326.2	95.6	326.2	95.6	26.9	305.1	89.4	305.1	89.4	29.8	297.3	87.1	297.3	87.1	30.9	283.4	83.1	283.4	83.1	32.7
	6749	66.2	19.0	356.6	104.5	356.6	104.5	24.2	335.5	98.3	335.5	98.3	27.1	314.4	92.1	314.4	92.1	30.0	306.7	89.9	306.7	89.9	31.1	292.8	85.8	292.8	85.8	32.9
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8750	62	16.7	342.8	100.5	335.7	98.4	26.0	324.1	95.0	324.1	95.0	29.4	305.0	89.4	305.0	89.4	33.0	298.1	87.4	298.1	87.4	34.3	285.4	83.7	285.4	83.7	36.6
	4130	66.2	19.0	377.7	110.7	298.9	87.6	26.7	354.1	103.8	289.2	84.8	30.1	331.2	97.1	279.9	82.0	33.6	323.1	94.7	276.7	81.1	34.8	308.8	90.5	271.0	79.4	37.0
	0.06	72	22.2	411.4	120.6	239.9	70.3	27.4	390.0	114.3	232.2	68.0	30.8	368.1	107.9	224.4	65.8	34.3	359.9	105.5	221.6	64.9	35.6	--	--	--	--	--
	10400	62	16.7	353.5	103.6	353.5	103.6	26.2	334.5	98.0	334.5	98.0	29.6	315.0	92.3	315.0	92.3	33.2	307.9	90.2	307.9	90.2	34.5	294.5	86.3	294.5	86.3	36.8
52380G	4908	66.2	19.0	384.2	112.6	326.6	95.7	26.9	361.6	106.0	317.6	93.1	30.3	339.6	99.5	309.0	90.6	33.8	331.6	97.2	306.0	89.7	35.0	317.1	93.0	300.5	88.1	37.2
	0.07	72	22.2	424.7	124.5	260.7	76.4	27.6	402.1	117.8	252.8	74.1	31.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	16042	62	16.7	379.2	111.1	379.2	111.1	26.8	372.4	109.1	372.4	109.1	30.5	349.2	102.4	349.2	102.4	34.0	340.7	99.9	340.7	99.9	35.2	325.3	95.3	325.3	95.3	37.3
	7571	66.2	19.0	406.1	119.0	406.1	119.0	27.3	383.0	112.3	383.0	112.3	30.7	359.8	105.5	359.8	105.5	34.2	351.3	103.0	351.3	103.0	35.4	336.0	98.5	336.0	98.5	37.5
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8750	62	16.7	376.5	110.3	351.2	102.9	28.5	355.7	104.2	341.6	100.1	32.3	335.0	98.2	332.2	97.4	36.5	327.4	96.0	327.4	96.0	38.1	313.7	91.9	313.7	91.9	40.8
	4130	66.2	19.0	411.9	120.7	313.5	91.9	29.2	392.2	114.9	305.0	89.4	33.1	368.9	108.1	295.3	86.6	37.2	359.5	105.4	291.4	85.4	38.7	342.8	100.5	284.6	83.4	41.2
	0.06	72	22.2	449.1	131.6	254.0	74.5	29.9	427.3	125.3	245.8	72.1	33.8	404.7	118.6	237.5	69.6	37.9	396.3	116.2	234.4	68.7	39.3	380.8	111.6	228.9	67.1	41.9
	11700	62	16.7	395.2	115.8	395.2	115.8	28.9	374.5	109.8	374.5	109.8	32.7	353.4	103.6	353.4	103.6	36.9	345.6	101.3	345.6	101.3	38.4	331.4	97.1	331.4	97.1	41.1
52420G	5522	66.2	19.0	431.5	126.5	365.1	107.0	29.6	406.5	119.2	355.2	104.1	33.4	382.1	112.0	345.7	101.3	37.4	373.3	109.4	342.3	100.3	38.9	357.6	104.8	336.4	98.6	41.5
	0.08	72	22.2	475.3	139.3	291.1	85.3	30.4	451.3	132.3	282.7	82.9	34.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	16042	62	16.7	416.1	122.0	416.1	122.0	29.3	394.5	115.6	394.5	115.6	33.1	387.1	113.4	387.1	113.4	37.5	378.3	110.9	378.3	110.9	39.0	362.0	106.1	362.0	106.1	41.5
	7571	66.2	19.0	447.8	131.2	436.2	127.9	29.9	423.5	124.1	423.5	124.1	33.7	398.7	116.9	398.7	116.9	37.8	389.6	114.2	389.6	114.2	39.2	373.1	109.3	373.1	109.3	41.7
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11250	62	16.7	433.8	127.2	428.5	125.6	32.3	411.0	120.5	411.0	120.5	36.7	387.6	113.6	387.6	113.6	41.6	378.9	111.0	378.9	111.0	43.4	363.1	106.4	363.1	106.4	46.4
	5309	66.2	19.0	478.1	140.1	381.3	111.7	33.3	449.2	131.7	369.3	108.3	37.6	420.6	123.3	357.8	104.9	42.3	410.3	120.3	353.7	103.7	43.9	392.3	115.0	346.5	101.6	46.8
	0.06	72	22.2	523.2	153.4	306.4	89.8	34.3	496.2	145.4	296.7	87.0	38.7	468.2	137.2	286.8	84.1	43.3	457.9	134.2	283.2	83.0	45.0	--	--	--	--	--
	14600	62	16.7	455.1	133.4	455.1	133.4	32.8	431.4	126.5	431.4	126.5	37.2	406.3	119.1	406.3	119.1	42.0	397.0	116.4	397.0	116.4	43.7	396.1	116.1	396.1	116.1	46.9
52500G	6890	66.2	19.0	492.6	144.4	438.2	128.4	33.6	465.2	136.3	427.5	125.3	38.0	437.1	128.1	417.0	122.2	42.6	426.7	125.1	413.0	121.1	44.3	408.1	119.6	406.0	119.0	47.1
	0.07	72	22.2	548.4	160.7	348.1	102.0	34.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20625	62	16.7	481.2	141.0	481.2	141.0	33.3	473.1	138.7	473.1	138.7	38.2	443.5	130.0	443.5	130.0	42.8	432.6	126.8	432.6	126.8	44.4	413.1	121.1	413.1	121.1	47.2
	9734	66.2	19.0	515.9	151.2	515.9	151.2	34.1	486.9	142.7	486.9	142.7	38.5	457.3	134.0	457.3	134.0	43.1	446.4	130.8	446.4	130.8	44.7	427.1	125.2	427.1	125.2	47.4
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11250	62	16.7	472.9	138.6	446.3	130.8	34.6	447.8	131.2	434.8	127.5	39.2	422.2	123.8	422.2	123.8	44.8	412.7	121	412.7	121	46.9	395.4	115.9	395.4	115.9	50.4
	5309	66.2	19	520.6	152.6	399.1	117	35.5	496.4	145.5	388.9	114	40.3	464.3	136.1	375.5	110.1	45.6	452.1	132.5	370.5	108.6	47.6	430.6	126.2	361.8	106	50.9
	0.06	72	22.2	569.7	167	323.7	94.9	36.6	541.9	158.8	313.2	91.8	41.4	511.4	149.9	302.1	88.5	46.7	499.9	146.5	298	87.3	48.5	479.5	140.5	290.8	85.2	51.7
	17200	62	16.7	509.8	149.4	509.8	149.4	35.3	484.2	141.9	484.2	141.9	40.1	456.6	133.8	456.6	133.8	45.5	445.7	130.6	445.7	130.6	47.4	444.4	130.3	444.4	130.3	51.1
52560G	8117	66.2	19	553.6	162.2	501.3	146.9	36.3	523.3	153.4	489.9	143.6	41	491.5	144	477.9	140.1	46.2	479.4	140.5	473.3	138.7	48.1	458	134.2	458	134.2	51.3
	0.09	72	22.2	617.1	180.9	397.1	116.4	37.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20625	62	16.7	525.3	154	525.3	154	35.6	498.1	146	498.1	146	40.4	488.4	143.1	488.4	143.1	46.1	476.4	139.6	476.4	139.6	48	454.6	133.2	454.6	133.2	51.3
	9734	66.2	19	566.9	166.2	557.6	163.4	36.6	536.1	157.1	536.1	157.1	41.3	502.9	147.4	502.9	147.4	46.5	490.6	143.8	490.6	143.8	48.3	468.8	137.4	468.8	137.4	51.5
	0.1	72	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 10

Notes:

1. See Page 2 for legend.
2. Ratings are based on 84.2°F (29°C) DB evaporator air entering temperature.
3. Direct interpolation is permissible. Do not extrapolate.
4. SKM Computer Selection Software are available for quick and accurate selections.
5. Capacity is gross capacity which does not include the effect of evaporator fan motor heat.

* Power input (PI) mentioned in this page is for compressor only and should not be used for cable or fuse selection. MCA and MFA values given in the electrical data (page 19 & 20) should be referred for the same.

FAN PERFORMANCE - 50 Hz

Model APMR	AirFlowRate		Internal Static Pressure		External Static Pressure - in.wg (Pa)														RPM Range 50 Hz
					0.2 (50)		0.4 (100)		0.5 (125)		0.6 (150)		0.8 (200)		1 (250)		1.25 (313)		
	cfm	l/s	in.wg	Pa	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	
51050	1260	595	0.24	59.69	606	0.12	726	0.16	784	0.18	841	0.21	-	-	-	-	-	-	770 to 993
	1670	788	0.41	101	723	0.24	819	0.29	865	0.31	910	0.34	999	0.4	1085	0.46	1192	0.55	
	2521	1190	0.96	239.22	1017	0.73	1085	0.81	1118	0.84	1150	0.88	1213	0.96	1275	1.04	1350	1.14	
51060	1260	595	0.24	59.69	606	0.12	726	0.16	784	0.18	841	0.21	-	-	-	-	-	-	809 to 1043
	2000	944	0.59	147.23	833	0.38	916	0.44	956	0.47	995	0.51	1071	0.57	1145	0.64	1237	0.73	
	2521	1190	0.96	239.22	1017	0.73	1085	0.81	1118	0.84	1150	0.88	1213	0.96	1275	1.04	1350	1.14	
51075	1769	835	0.24	59.71	646	0.22	747	0.27	794	0.3	839	0.32	926	0.38	1011	0.44	1114	0.52	
	2400	1133	0.43	106.01	803	0.48	883	0.55	922	0.58	959	0.62	1031	0.69	1099	0.77	1181	0.86	
	3538	1670	0.96	239.14	1130	1.43	1184	1.53	1212	1.58	1239	1.63	1293	1.73	1345	1.84	1409	1.97	
51080	1769	835	0.24	59.71	-	-	643	0.23	690	0.26	735	0.29	823	0.36	908	0.44	-	-	739 to 922
	2900	1369	0.63	157.7	768	0.61	839	0.7	872	0.74	905	0.79	968	0.88	1028	0.98	1101	1.1	
	3538	1670	0.96	239.14	913	1.06	973	1.17	1001	1.23	1029	1.28	1084	1.39	1136	1.5	1200	1.64	
51100	2387	1126	0.24	59.71	-	-	665	0.37	707	0.4	746	0.44	822	0.52	894	0.6	979	0.7	695 to 866
	3220	1520	0.42	104.78	713	0.63	784	0.73	818	0.78	851	0.83	915	0.93	976	1.03	1048	1.16	
	4774	2253	0.96	239.15	1006	1.9	1055	2.05	1080	2.12	1104	2.2	1152	2.34	1198	2.49	1255	2.68	
52115	2674	1262	0.24	59.73	-	-	681	0.45	721	0.49	759	0.53	831	0.62	899	0.7	980	0.81	793 to 989
	4000	1888	0.52	130.04	816	1.07	875	1.18	904	1.25	933	1.31	989	1.43	1043	1.56	1108	1.71	
	5347	2523	0.96	239.16	1062	2.45	1106	2.6	1128	2.68	1150	2.76	1194	2.92	1237	3.09	1290	3.3	
52125	2674	1262	0.24	59.73	-	-	681	0.45	721	0.49	759	0.53	831	0.62	899	0.7	980	0.81	
	4000	1888	0.52	130.04	816	1.07	875	1.18	904	1.25	933	1.31	989	1.43	1043	1.56	1108	1.71	
	5347	2523	0.96	239.16	1062	2.45	1106	2.6	1128	2.68	1150	2.76	1194	2.92	1237	3.09	1290	3.3	
52150	3438	1622	0.24	59.73	481	0.4	556	0.5	591	0.55	624	0.6	686	0.71	745	0.83	816	0.98	622 to 775
	5000	2360	0.49	122.56	632	1.07	689	1.21	716	1.28	743	1.35	793	1.49	842	1.64	899	1.83	
	6875	3244	0.96	239.18	838	2.66	881	2.84	901	2.93	922	3.03	962	3.22	1001	3.41	1048	3.65	
52170	3667	1730	0.21	52.72	-	-	662	0.5	711	0.57	758	0.64	849	0.78	937	0.95	1044	1.19	793 to 989
	6000	2831	0.56	140.61	787	1.32	861	1.52	897	1.62	931	1.72	997	1.93	1061	2.13	1137	2.39	
	7333	3460	0.87	215.63	938	2.32	1000	2.56	1030	2.69	1060	2.81	1117	3.06	1173	3.3	1239	3.61	
52200	4278	2019	0.21	52.72	-	-	673	0.64	719	0.71	763	0.78	847	0.94	927	1.1	1023	1.32	769 to 993
	7000	3303	0.56	140.61	824	1.77	893	2.01	926	2.13	958	2.24	1021	2.48	1080	2.71	1152	3.01	
	8556	4038	0.87	215.67	985	3.13	1042	3.42	1070	3.56	1098	3.7	1152	3.99	1204	4.28	1267	4.64	
52230	4278	2019	0.25	62.7	-	-	692	0.67	737	0.74	781	0.81	864	0.97	943	1.13	1038	1.36	
	7000	3303	0.68	168.31	863	1.9	930	2.14	962	2.26	993	2.37	1054	2.61	1113	2.84	1183	3.14	
	8556	4038	1.04	259.22	1035	3.38	1091	3.67	1118	3.81	1145	3.95	1197	4.24	1248	4.53	1309	4.89	
52240	5362	2530	0.21	52.71	466	0.53	553	0.71	594	0.8	632	0.9	707	1.12	778	1.36	865	1.69	624 to 778
	8000	3775	0.46	115.22	611	1.44	678	1.69	710	1.82	740	1.95	798	2.22	853	2.49	919	2.86	
	10725	5061	0.87	215.65	787	3.27	839	3.6	864	3.76	889	3.93	936	4.27	982	4.62	1037	5.06	
52270	5362	2530	0.25	62.68	484	0.56	570	0.75	609	0.84	648	0.94	721	1.16	792	1.41	878	1.75	
	8000	3775	0.55	137.75	642	1.55	707	1.81	737	1.94	767	2.07	823	2.34	878	2.62	943	2.99	
	10725	5061	1.04	259.19	832	3.56	882	3.89	907	4.06	930	4.23	976	4.57	1021	4.92	-	-	
52300	5958	2812	0.25	62.69	493	0.67	576	0.87	614	0.97	650	1.07	720	1.3	786	1.54	866	1.87	700 to 872
	9100	4294	0.58	144.92	672	2.02	733	2.3	762	2.44	790	2.58	843	2.88	895	3.18	956	3.57	
	11917	5624	1.04	259.2	856	4.36	904	4.71	927	4.9	-	-	-	-	-	-	-	-	
52340	5958	2812	0.25	62.69	493	0.67	576	0.87	614	0.97	650	1.07	720	1.3	786	1.54	866	1.87	750 to 935
	10500	4955	0.79	197.64	762	3.03	816	3.34	842	3.51	867	3.67	916	4	963	4.34	1019	4.77	
	11917	5624	1.04	259.2	856	4.36	904	4.71	927	4.9	-	-	-	-	-	-	-	-	

Table 11

Notes:

1. Areas shaded in blue indicate factory setting of RPM.
2. Areas shaded in grey indicate operating range outside the standard motor. Shift to larger motor size in this area.
3. Internal static pressure is based on pressure drops through evaporator coil, fan casing and 1” flat filter.
4. The shown RPM range is with standard pulleys combination.

FAN PERFORMANCE - 50 HZ (HIGH EFFICIENCY)

Model APMR-G	AirFlowRate		Internal Static Pressure		External Static Pressure - in.wg (Pa)																					
					0.1 (25)		0.2 (50)		0.3 (75)		0.4 (100)		0.5 (125)		0.6 (150)		0.7 (175)		0.8 (200)		0.9 (225)		1 (250)		1.1 (275)		1.2 (300)	
	cfm	l/s	in.wg	Pa	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
51050 G	1260	595	0.24	59.7	0	0	606	0.12	667	0.14	726	0.16	784	0.18	841	0.21	898	0.24	0	0	0	0	0	0	0	0	0	0
	1670	788	0.41	101	672	0.21	723	0.24	772	0.26	819	0.29	865	0.31	910	0.34	955	0.37	999	0.4	1042	0.43	1085	0.46	1128	0.5	1171	0.53
	2521	1190	0.96	239	982	0.69	1017	0.73	1052	0.77	1085	0.81	1118	0.84	1150	0.88	1182	0.92	1213	0.96	1244	1	1275	1.04	1305	1.08	1335	1.12
51060 G	1260	595	0.28	69.7	0	0	631	0.13	691	0.15	750	0.17	807	0.19	864	0.22	920	0.25	0	0	0	0	0	0	0	0	0	0
	2000	944	0.69	173	835	0.38	877	0.41	918	0.44	957	0.48	996	0.51	1034	0.54	1072	0.57	1110	0.6	1147	0.64	1183	0.67	1220	0.71	1256	0.75
	2521	1190	1.14	283	1043	0.76	1077	0.8	1110	0.83	1142	0.87	1174	0.91	1205	0.95	1236	0.99	1267	1.03	1297	1.07	1327	1.11	1357	1.15	1387	1.19
51075 G	1769	835	0.24	59.7	0	0	646	0.22	698	0.24	747	0.27	794	0.3	839	0.32	883	0.35	926	0.38	969	0.41	1011	0.44	1052	0.47	1094	0.5
	2400	1133	0.43	106	763	0.44	803	0.48	843	0.51	883	0.55	922	0.58	959	0.62	995	0.66	1031	0.69	1065	0.73	1099	0.77	1132	0.8	1165	0.84
	3538	1670	0.96	239	1103	1.38	1130	1.43	1157	1.48	1184	1.53	1212	1.58	1239	1.63	1266	1.68	1293	1.73	1319	1.79	1345	1.84	1371	1.89	1396	1.95
51080 G	2387	1126	0.28	69.7	0	0	0	0	639	0.35	682	0.38	723	0.42	762	0.46	800	0.49	837	0.53	872	0.57	907	0.61	942	0.65	976	0.7
	2900	1369	0.4	99.4	640	0.46	680	0.5	719	0.55	756	0.59	792	0.64	827	0.68	861	0.73	894	0.77	926	0.82	957	0.87	988	0.91	1018	0.96
	4774	2253	1.13	283	1025	1.96	1049	2.03	1074	2.1	1098	2.18	1122	2.25	1146	2.33	1169	2.4	1192	2.47	1215	2.55	1238	2.62	1260	2.7	1282	2.77
51100 G	2387	1126	0.28	69.7	0	0	0	0	639	0.35	682	0.38	723	0.42	762	0.46	800	0.49	837	0.53	872	0.57	907	0.61	942	0.65	976	0.7
	3220	1520	0.49	123	703	0.62	739	0.67	774	0.72	809	0.77	842	0.82	875	0.87	906	0.92	937	0.97	967	1.02	997	1.07	1026	1.12	1054	1.17
	4774	2253	1.13	283	1025	1.96	1049	2.03	1074	2.1	1098	2.18	1122	2.25	1146	2.33	1169	2.4	1192	2.47	1215	2.55	1238	2.62	1260	2.7	1282	2.77
52115 G	3667	1730	0.24	59.7	451	0.41	490	0.46	528	0.51	563	0.56	597	0.61	629	0.67	660	0.72	691	0.78	720	0.84	748	0.9	776	0.96	803	1.02
	5000	2360	0.43	107	585	0.97	614	1.03	643	1.1	672	1.17	699	1.24	726	1.31	753	1.38	778	1.45	803	1.52	827	1.6	851	1.67	874	1.75
	7333	3460	0.96	239	841	2.97	862	3.07	882	3.16	902	3.26	922	3.36	942	3.46	961	3.56	980	3.66	1000	3.76	1018	3.86	1037	3.96	1055	4.06
52150 G	4280	2020	0.28	69.8	498	0.6	532	0.66	566	0.72	598	0.77	630	0.83	660	0.9	689	0.96	717	1.02	744	1.09	771	1.15	797	1.22	822	1.29
	5000	2360	0.37	92.2	567	0.93	597	0.99	626	1.06	655	1.13	683	1.19	710	1.26	737	1.33	763	1.41	788	1.48	813	1.55	837	1.63	860	1.7
	8550	4035	1.13	282	944	4.48	962	4.59	979	4.7	997	4.82	1014	4.93	1032	5.04	1049	5.15	1066	5.27	1083	5.38	1100	5.5	1117	5.61	1133	5.73
52170 G	4280	2020	0.25	62.7	0	0	0	0	645	0.6	692	0.67	737	0.74	781	0.81	823	0.89	864	0.97	904	1.05	943	1.13	981	1.22	1019	1.31
	6000	2831	0.48	121	716	1.14	756	1.24	795	1.34	832	1.44	868	1.54	904	1.64	938	1.74	971	1.84	1004	1.95	1036	2.05	1067	2.15	1098	2.25
	8550	4035	1.04	259	1006	3.23	1035	3.37	1063	3.52	1090	3.66	1118	3.8	1145	3.95	1171	4.09	1197	4.23	1222	4.38	1248	4.52	1272	4.66	1297	4.81
52200 G	6000	2831	0.25	63.4	621	0.92	662	1.01	704	1.11	744	1.21	783	1.31	821	1.41	858	1.51	893	1.61	928	1.71	961	1.81	994	1.91	1026	2.02
	7000	3303	0.34	83.8	708	1.41	744	1.52	779	1.63	814	1.74	849	1.86	883	1.97	917	2.09	949	2.21	981	2.33	1012	2.45	1042	2.56	1072	2.68
	11900	5616	1.04	258	1179	6.74	1199	6.91	1220	7.08	1241	7.26	1261	7.44	1282	7.62	1303	7.8	1324	7.99	0	0	0	0	0	0	0	0
52230 G	6000	2831	0.25	63.4	621	0.92	662	1.01	704	1.11	744	1.21	783	1.31	821	1.41	858	1.51	893	1.61	928	1.71	961	1.81	994	1.91	1026	2.02
	7000	3303	0.34	83.8	708	1.41	744	1.52	779	1.63	814	1.74	849	1.86	883	1.97	917	2.09	949	2.21	981	2.33	1012	2.45	1042	2.56	1072	2.68
	11900	5616	1.04	258	1179	6.74	1199	6.91	1220	7.08	1241	7.26	1261	7.44	1282	7.62	1303	7.8	1324	7.99	0	0	0	0	0	0	0	0
52240 G	6000	2831	0.25	63.4	450	0.59	495	0.68	538	0.78	577	0.88	615	0.98	651	1.09	687	1.2	721	1.31	754	1.43	787	1.55	819	1.68	851	1.81
	8000	3775	0.44	110	568	1.3	604	1.42	638	1.54	671	1.66	703	1.79	734	1.92	763	2.05	792	2.19	820	2.32	848	2.46	875	2.61	901	2.75
	11900	5616	1.04	258	830	4.16	855	4.34	879	4.52	903	4.7	926	4.88	949	5.06	971	5.24	993	5.43	1015	5.62	1036	5.81	1057	6	1078	6.19
52270 G	7150	3374	0.25	62.7	474	0.84	516	0.95	555	1.05	592	1.16	628	1.28	662	1.39	695	1.51	727	1.63	758	1.76	788	1.89	817	2.02	846	2.15
	8000	3775	0.31	76.4	517	1.14	555	1.26	592	1.37	626	1.5	660	1.62	692	1.75	723	1.87	753	2.01	782	2.14	810	2.28	838	2.41	865	2.56
	14300	6748	1.04	259	890	6.19	912	6.39	934	6.6	955	6.8	976	7.01	997	7.22	1018	7.43	1038	7.64	1058	7.86	1078	8.07	1097	8.29	1117	8.51
52300 G	7150	3374	0.29	72.7	491	0.88	532	0.99	570	1.1	607	1.21	642	1.32	676	1.44	708	1.56	739	1.68	770	1.81	800	1.94	829	2.07	857	2.21
	9100	4294	0.46	114	600	1.72	633	1.85	665	1.99	696	2.13	726	2.26	755	2.41	783	2.55	811	2.7	838	2.84	864	2.99	889	3.15	914	3.3
	14300	6748	1.22	303	928	6.55	950	6.75	971	6.96	992	7.17	1012	7.38	1033	7.59	1053	7.8	1073	8.02	1092	8.23	1112	8.45	1131	8.67	1150	8.89
52340 G	7150	3374	0.29	72.7	491	0.88	532	0.99	570	1.1	607	1.21	642	1.32	676	1.44	708	1.56	739	1.68	770	1.81	800	1.94	829	2.07	857	2.21
	10500	4955	0.62	155	685	2.61	714	2.76	743	2.92	770	3.07	797	3.23	823	3.39	849	3.55	874	3.72	899	3.88	923	4.05	946	4.22	969	4.39
	14300	6748	1.22	303	928	6.55	950	6.75	971	6.96	992	7.17	1012	7.38	1033	7.59	1053	7.8	1073	8.02	1092	8.23	1112	8.45	1131	8.67	1150	8.89

Table 12

Notes:

1. Areas shaded in blue indicate factory setting of RPM.
2. Internal static pressure is based on pressure drops through evaporator coil, fan casing and 1" flat filter.
3. Areas shaded in grey indicate operating range outside the standard motor.

FAN PERFORMANCE - 50 HZ (HIGH EFFICIENCY)

Model APMR-G	AirFlowRate		Internal Static Pressure		External Static Pressure - in.wg(Pa)													
					0.2(50)		0.4(100)		0.5(125)		0.6(150)		0.8(200)		1(250)		1.2(300)	
	cfm	l/s	in.wg	Pa	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
52380G	7292	3441	0.25	62.9	518	0.98	595	1.2	630	1.32	664	1.43	729	1.68	789	1.93	847	2.2
	10400	4908	0.48	118.9	671	2.49	729	2.79	757	2.94	785	3.1	838	3.42	888	3.74	936	4.08
	11458	5407	0.59	146	730	3.27	783	3.6	809	3.77	835	3.94	884	4.28	931	4.63	977	4.99
52420G	8203	3871	0.3	75.4	558	1.31	629	1.56	662	1.68	694	1.81	755	2.07	812	2.35	866	2.63
	11700	5521	0.61	152.7	741	3.46	794	3.79	819	3.96	845	4.14	893	4.49	940	4.85	985	5.21
	12891	6083	0.76	188.5	811	4.58	859	4.95	883	5.14	906	5.32	951	5.71	995	6.1	1037	6.49
52500G	10208	4817	0.29	71.5	465	1.53	524	1.85	551	2.01	578	2.18	629	2.53	678	2.91	725	3.31
	14600	6890	0.57	143.2	612	3.94	657	4.4	679	4.63	700	4.86	741	5.32	779	5.78	817	6.26
	16042	7570	0.7	175.5	666	5.15	708	5.66	728	5.91	748	6.16	786	6.66	822	7.17	857	7.68
52560G	12031	5677	0.39	96	523	2.33	576	2.71	601	2.9	624	3.09	670	3.48	714	3.89	757	4.31
	17200	8117	0.82	204.3	712	6.3	751	6.85	770	7.12	788	7.39	824	7.93	859	8.47	892	9.02
	18906	8922	1.01	251	778	8.3	814	8.91	831	9.21	849	9.5	882	10.1	914	10.69	946	11.28

Table 13

Notes :

1. Areas shaded in blue indicate factory setting of rpm.
2. Areas shaded in grey indicate operating range outside the standard motor.
3. Internal static pressure is based on pressure drops through evaporator coil, fan casing and 1” Aluminium fvilter.

ELECTRICAL DATA

Power Supply: 380~415V/3PH/50Hz

Model APMR	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	FLA	LRA
51050	32	17	68	1	11	64	1	0.9	2.6	1.4	7.3
51060	32	19	79	1	12	74	2	0.9	2.6	1.4	7.3
51075	40	22	106	1	14	101	2	0.9	2.6	1.9	9.7
51080	40	25	101	1	16	95	2	0.9	2.6	2.6	14.8
51100	50	29	117	1	19	111	2	0.9	2.6	2.6	14.8
52115	50	30	82	2	11	64	2	0.9	2.6	3.4	18.8
52125	50	33	94	2	12	74	2	1.2	3.6	3.4	18.8
52150	63	39	125	2	14	101	2	1.2	3.6	4.8	27.1
52170	63	46	127	2	16	95	2	2.2	9.0	4.8	27.1
52200	80	54	148	2	19	111	2	2.2	9.0	6.6	42.6
52230	80	56	156	2	20	118	2	2.2	9.0	6.6	42.6
52240	80	60	165	2	20	118	2	4.0	16.5	6.6	42.6
52270	100	62	166	2	21	118	2	4.0	16.5	6.6	42.6
52300	100	71	192	2	25	140	2	4.0	16.5	6.6	42.6
52340	125	82	232	2	29	174	2	4.0	16.5	8.6	53.6

Table 14

Power Supply: 440V/3PH/50Hz

Model APMR	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	FLA	LRA
51050	32	16	68	1	11	64	1	0.9	2.6	1.3	6.7
51060	32	19	79	1	12	74	2	0.9	2.6	1.3	6.7
51075	40	21	106	1	14	101	2	0.9	2.6	1.7	8.8
51080	40	25	101	1	16	95	2	0.9	2.6	2.3	13.5
51100	50	28	117	1	19	111	2	0.9	2.6	2.3	13.5
52115	50	30	82	2	11	64	2	0.9	2.6	3.1	17.0
52125	50	33	94	2	12	74	2	1.2	3.6	3.1	17.0
52150	63	39	124	2	14	101	2	1.2	3.6	4.4	24.6
52170	63	46	127	2	16	95	2	2.5	8.8	4.4	24.6
52200	80	54	147	2	19	111	2	2.5	8.8	6.0	38.8
52230	80	56	155	2	20	118	2	2.5	8.8	6.0	38.8
52240	80	59	162	2	20	118	2	3.7	14.0	6.0	38.8
52270	100	61	163	2	21	118	2	3.7	14.0	6.0	38.8
52300	100	70	189	2	25	140	2	3.7	14.0	6.0	38.8
52340	125	81	229	2	29	174	2	3.7	14.0	7.9	48.7

Table 15

Legend

MFA Maximum Fuse Amps (for fuse/circuit breaker sizing), complies with NEC Article 440-22 & 430-52.

MCA Minimum Circuit Amps.(for wire sizing), complies with NEC article 440-33.

ICF Maximum Instantaneous Current Flow

RLA Rated Load Amps. (at worst operating condition)

LRA Locked Rotor Amps

FLA Full Load Amps

Note : Voltage imbalance not to exceed ± 2 % of the rated voltage.

ELECTRICAL DATA (HIGH EFFICIENCY)

Power Supply: 380~415V/3PH/50Hz

Model APMR	Unit Characteristic			Compressor			Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	ICF	QTY	RLA	LRA	QTY	FLA	LRA	FLA	LRA
51050G	32	16	68	1	11	64	1	0.9	2.6	1.1	4.0
51060G	32	19	79	1	12	74	2	0.9	2.6	1.4	7.3
51075G	40	22	106	1	14	101	2	0.9	2.6	1.9	9.7
51080G	40	24	100	1	16	95	2	0.9	2.6	1.9	9.7
51100G	50	29	117	1	19	111	2	0.9	2.6	2.6	14.8
52115G	50	31	83	2	11	64	2	1.2	3.6	3.4	18.8
52150G	63	40	130	2	14	101	2	2.2	9.0	3.4	18.8
52170G	63	46	127	2	16	95	2	2.2	9.0	4.8	27.1
52200G	80	57	153	2	19	111	2	3.4	13.0	6.6	42.6
52230G	80	59	161	2	20	118	2	3.4	13.0	6.6	42.6
52240G	80	59	161	2	20	118	2	3.4	13.0	6.6	42.6
52270G	100	61	162	2	21	118	2	3.4	13.0	6.6	42.6
52300G	100	72	190	2	25	140	2	3.4	13.0	8.6	53.6
52340G	125	81	228	2	29	174	2	3.4	13.0	8.6	53.6
52380G	160	94	289	1 + 1	34 + 29	229 + 174	3	3.4	13.0	11.1	79.9
52420G	160	106	302	2	34	229	4	3.4	13.0	15.0	101.0
52500G	160	116	393	1 + 1	42 + 34	320 + 229	4	3.4	13.0	15.0	101.0
52560G	200	131	407	2	42	320	4	3.4	13.0	22.0	132.0

Table 16

Legend

MFA Maximum Fuse Amps (for fuse/circuit breaker sizing), complies with NEC Article 440-22 & 430-52.

MCA Minimum Circuit Amps.(for wire sizing), complies with NEC article 440-33.

ICF Maximum Instantaneous Current Flow

RLA Rated Load Amps. (at worst operating condition)

LRA Locked Rotor Amps

FLA Full Load Amps

Note : Voltage imbalance not to exceed ± 2 % of the rated voltage.

Field Connections

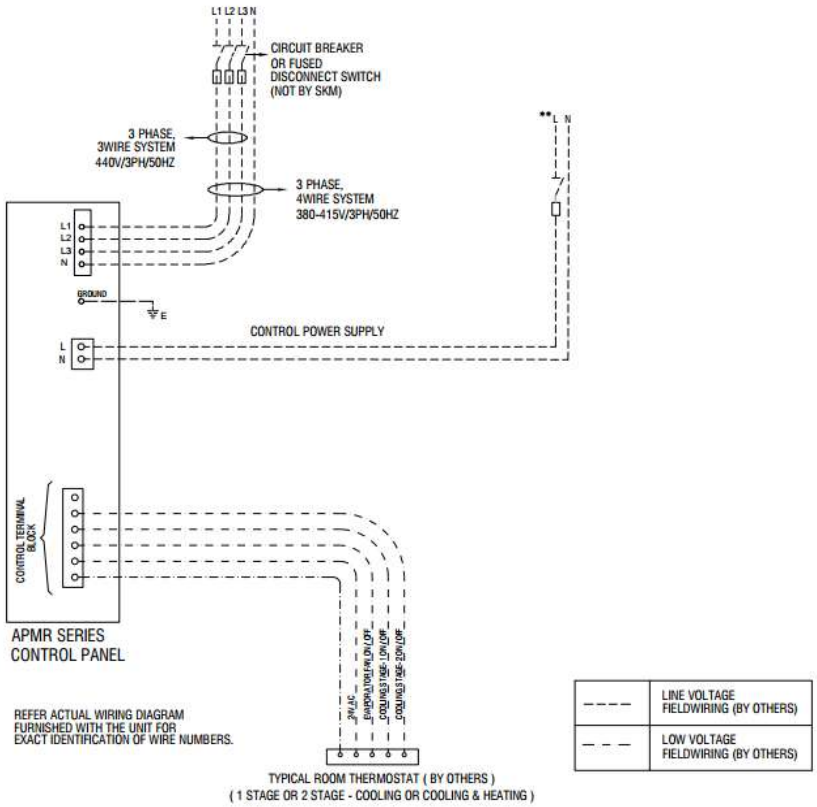
APMR series self-contained heavy duty air cooled packaged units are designed for minimum field interaction. Power hook ups and control wiring of room thermostat as per field wiring diagrm is all that is required to electrically connect any model of APMR series. Every APMR series packaged air conditioning unit requires, at most,field installed fused disconnect switches or circuit breakers and room thermostat.

Refer below for schematic representation of required field electrical hook-ups for a standard APMR series packaged air conditioning unit. All field wiring must be done in accordance with applicable local & national codes.

For the maximum fuse ampere for fuse sizing & minimum circuit amps for cable sizing, see page 19 & 20.

The APMR series is then ready to provide cooling, on demand.

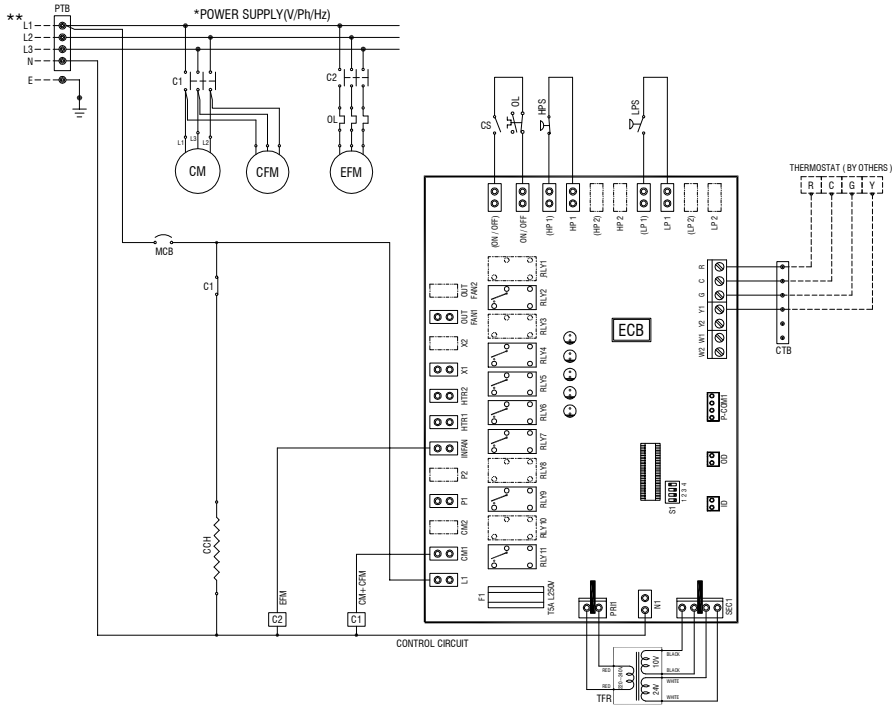
Field Wiring Requirement Schematic



The **APMR series units rated for 440V/3Ph/50Hz or power supplies with out neutral require separate source of control power supply through field supplied and installed 15A/220V fused control disconnect switch or order with factory buit in option 'CXT'.

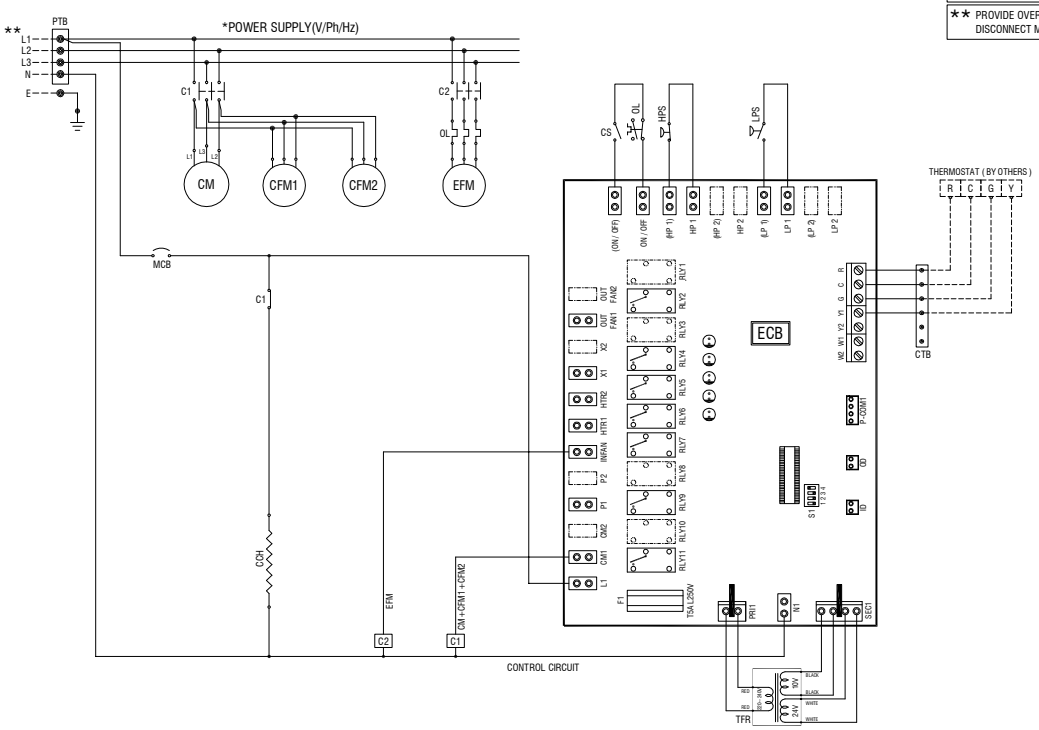
Typical Wiring Diagram

APMR Model - 51050



LEGEND	
-----	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
C	CONTACTOR
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
TFR	TRANSFORMER

APMR Models - 51060, 51075, 51080 & 51100



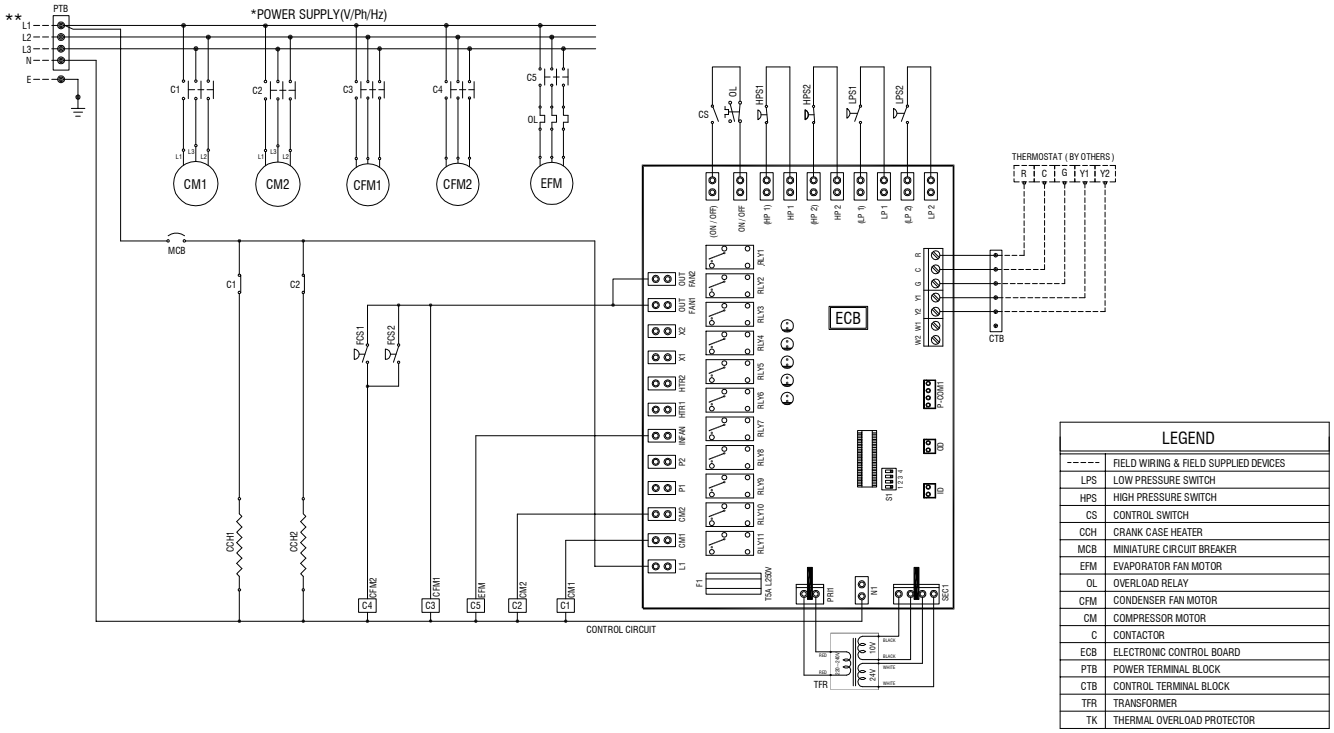
NOTE

* TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE.

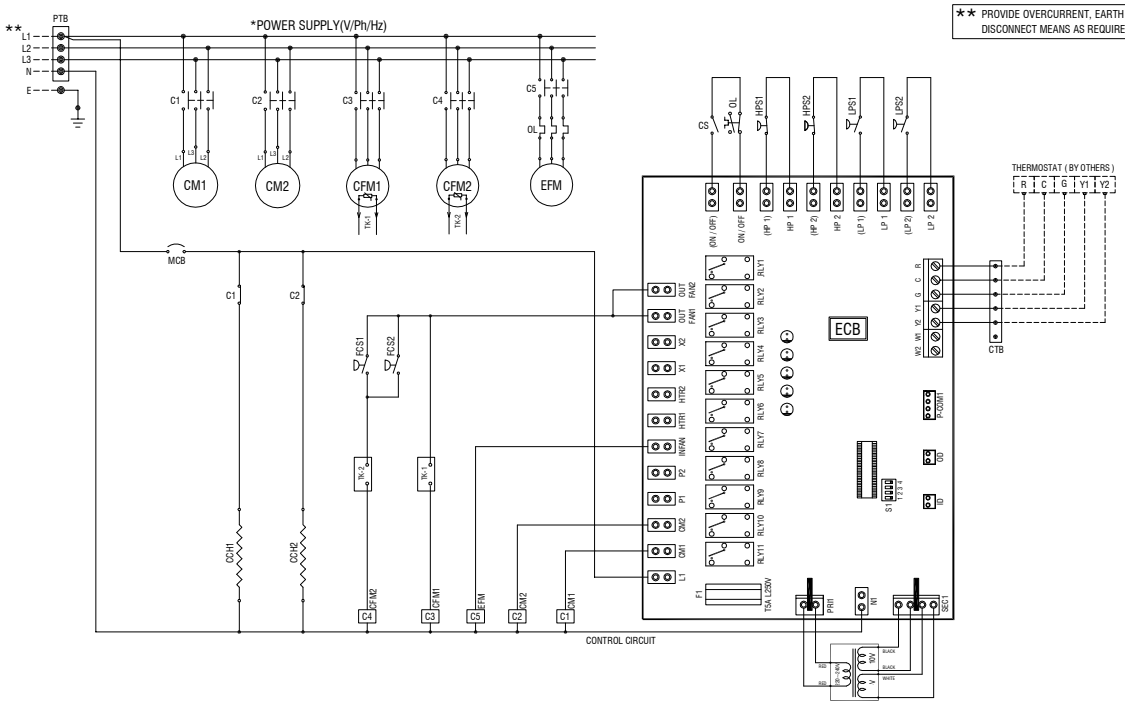
Typical Wiring Diagram

APMR Models - 52115, 52125 & 52150



LEGEND	
-----	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
C	CONTACTOR
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
TFR	TRANSFORMER
TK	THERMAL OVERLOAD PROTECTOR

APMR Models - 52170 to 52270



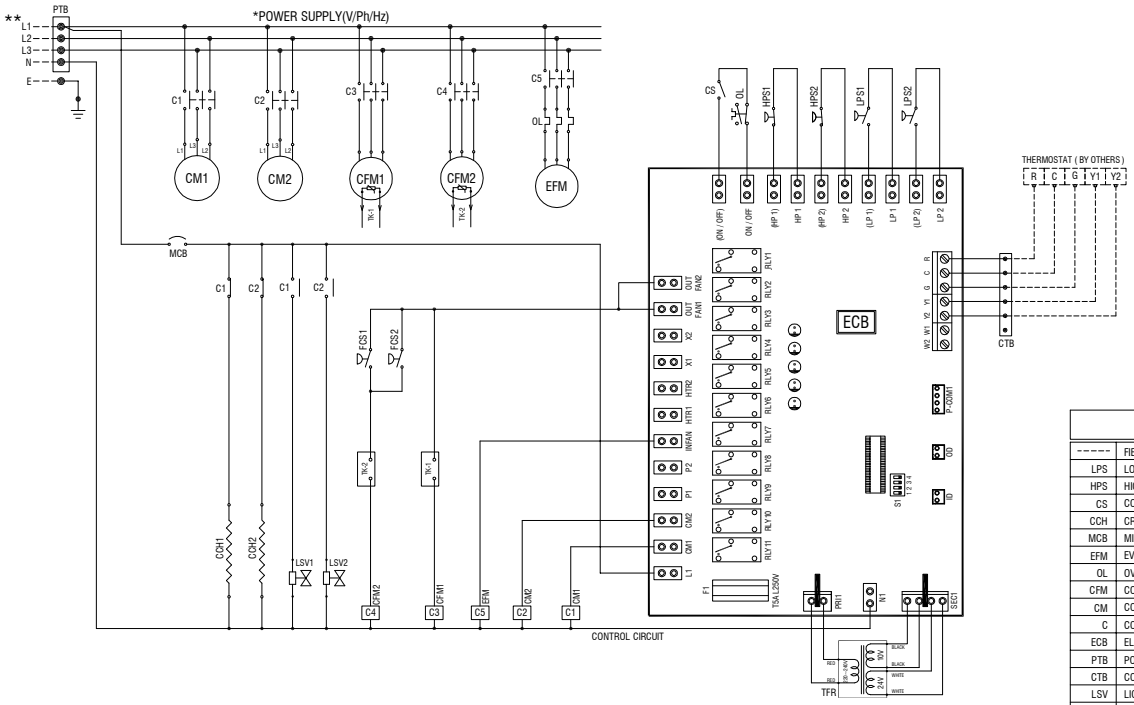
NOTE

* TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE.

Typical Wiring Diagram

APMR Models - 52300 & 52340



LEGEND	
------	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
C	CONTACTOR
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
LSV	LIQUID LINE SOLENOID VALVE
TFR	TRANSFORMER
TK	THERMAL OVERLOAD PROTECTOR

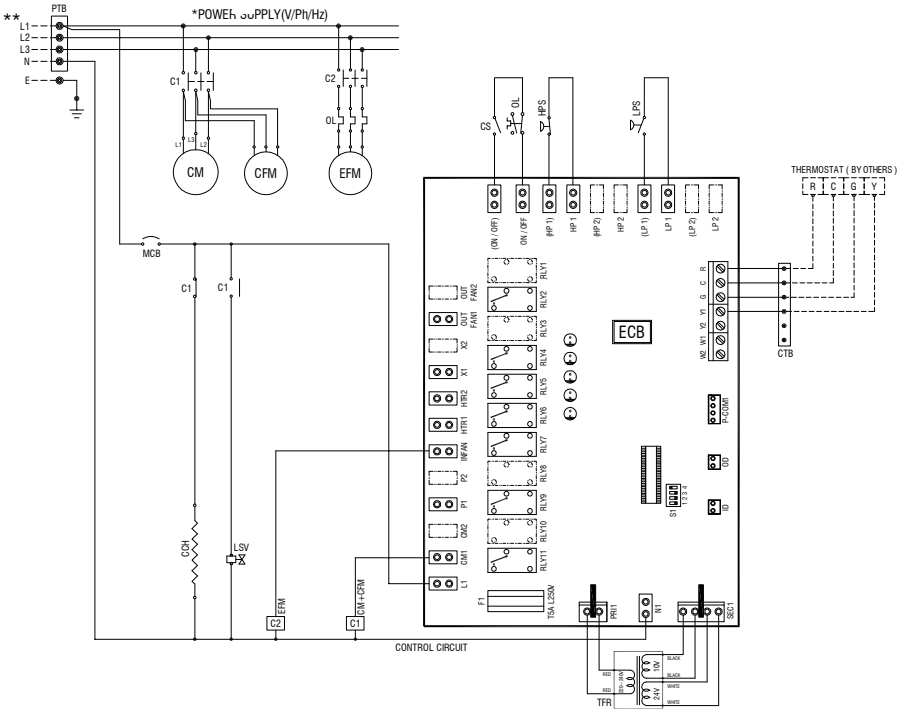
NOTE

* TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE.

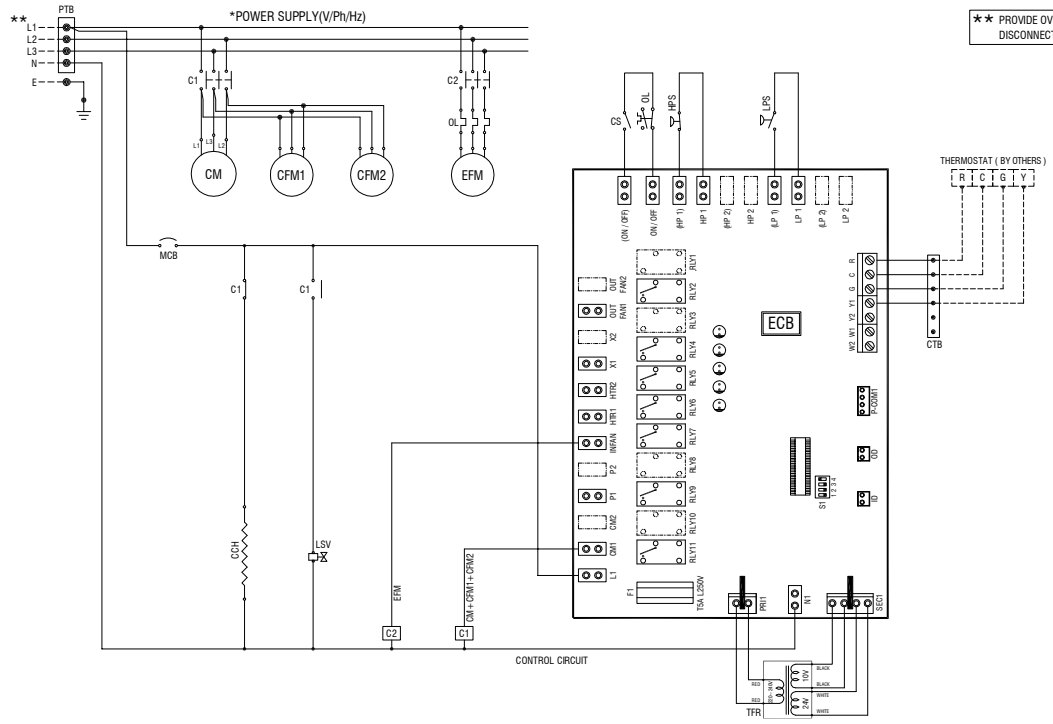
Typical Wiring Diagram (HIGH EFFICIENCY)

APMR Model - 51050 G



LEGEND	
-----	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
C	CONTACTOR
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
LSV	LIQUID LINE SOLENOID VALVE
TFR	TRANSFORMER
TK	THERMAL OVERLOAD PROTECTOR

APMR Models - 51060 G, 51075 G, 51080 G & 51100 G



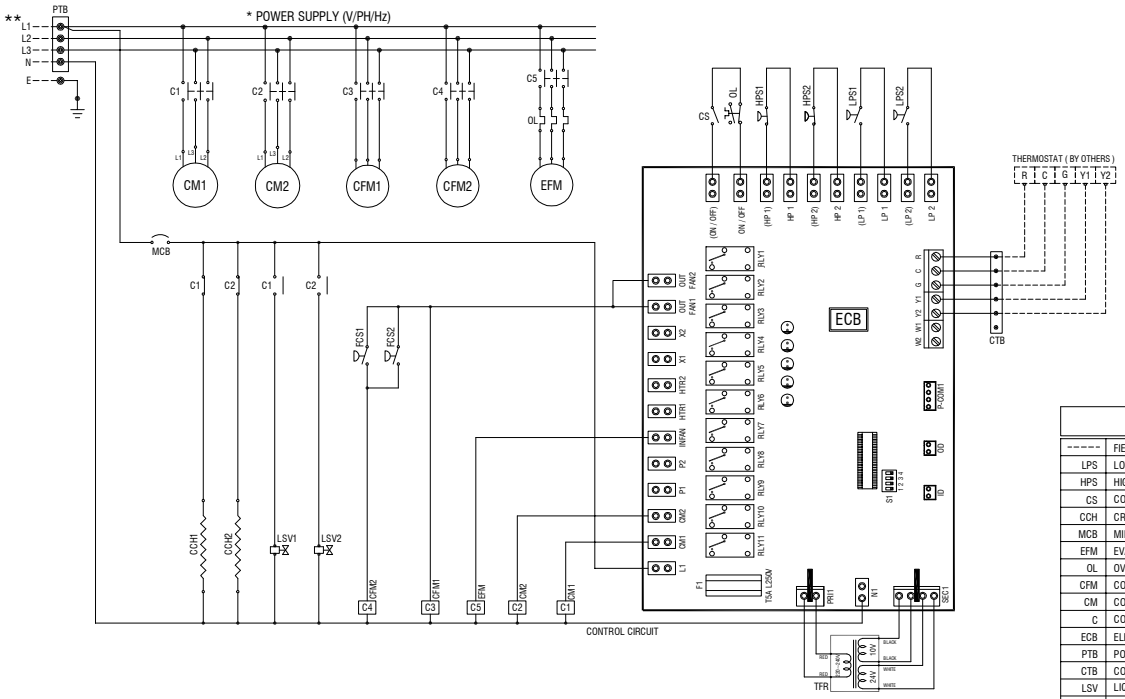
NOTE

* TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE.

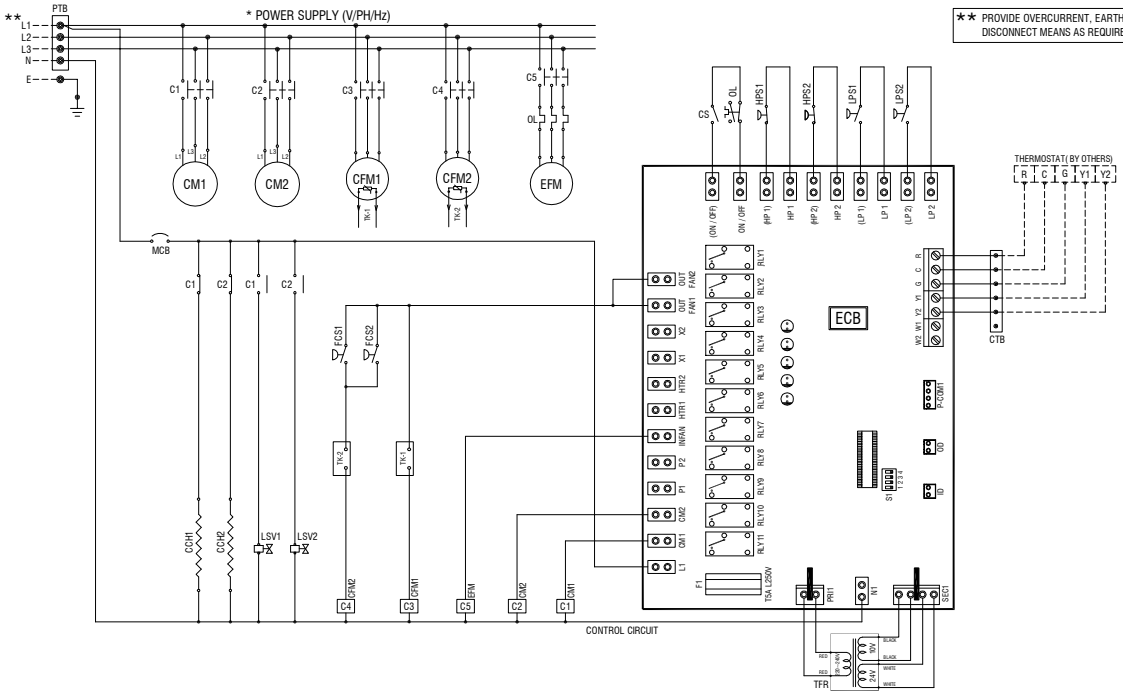
Typical Wiring Diagram (HIGH EFFICIENCY)

APMR Models - 52115 G



LEGEND	
------	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
C	CONTACTOR
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
LSV	LIQUID LINE SOLENOID VALVE
TFR	TRANSFORMER
TK	THERMAL OVERLOAD PROTECTOR

APMR Models - 52150 G & 52170 G



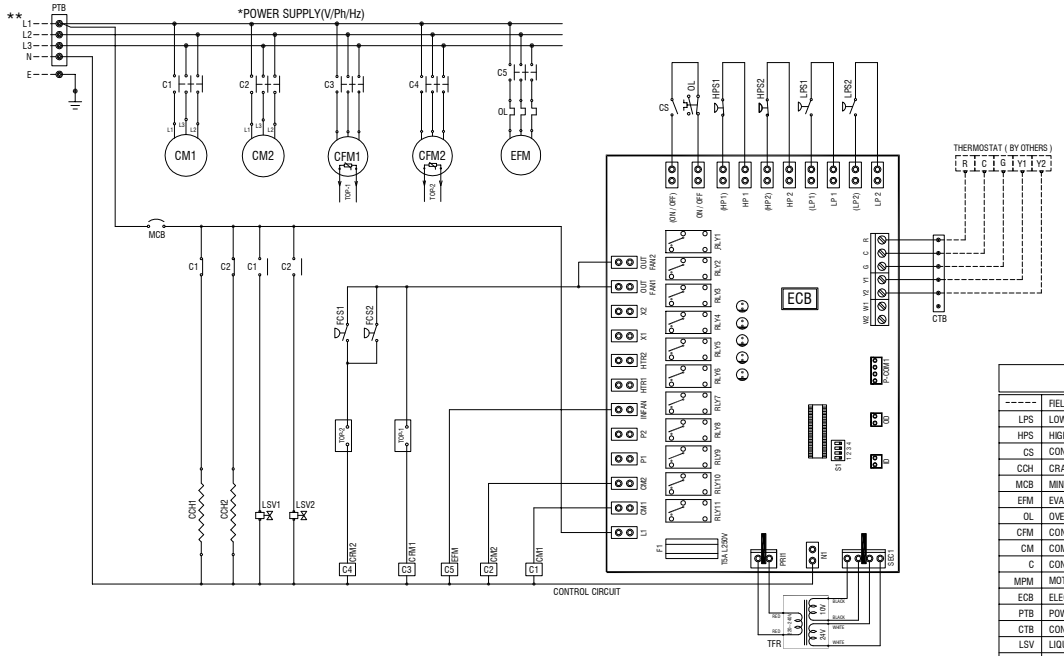
NOTE

* TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE.

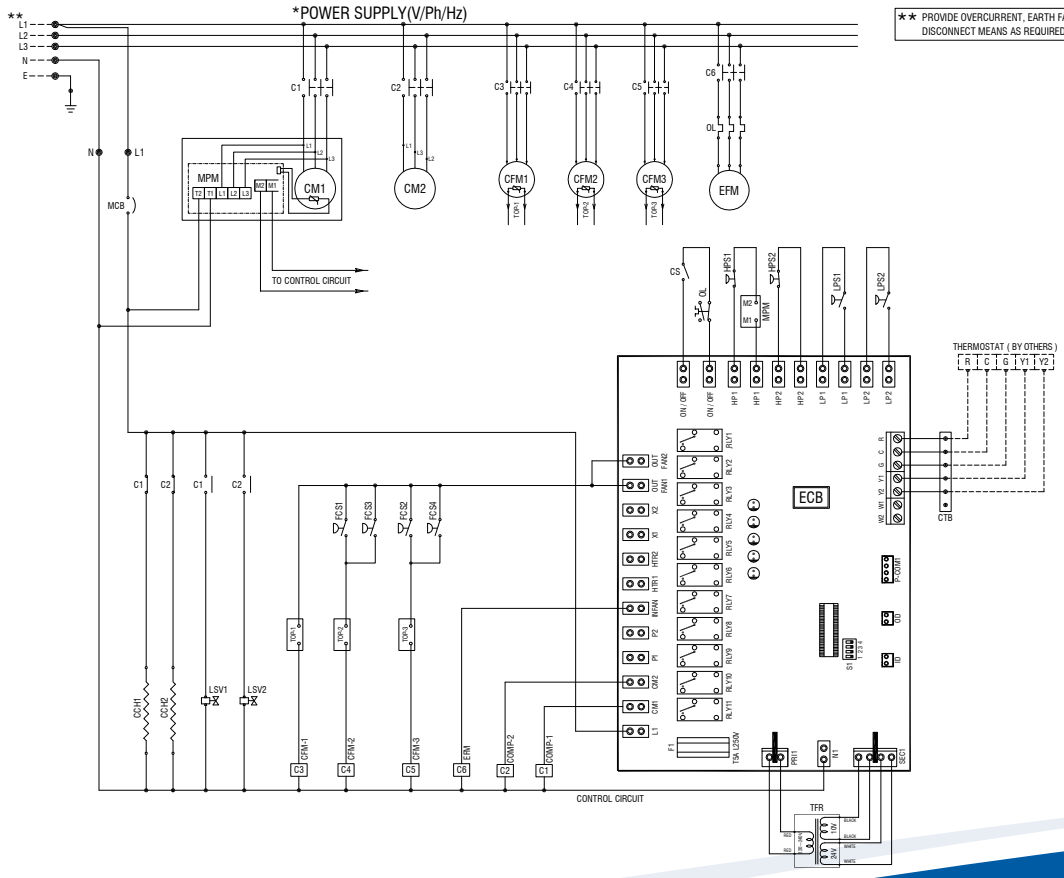
Typical Wiring Diagram (HIGH EFFICIENCY)

APMR Models - 52200 G, 52230 G, 52240 G, 52270 G, 52300 G & 52340 G



LEGEND	
-----	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
C	CONTACTOR
MPM	MOTOR PROTECTOR MODULE
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
LSV	LIQUID LINE SOLENOID VALVE
TFR	TRANSFORMER
TK	THERMAL OVERLOAD PROTECTOR

APMR Models - 52380 G



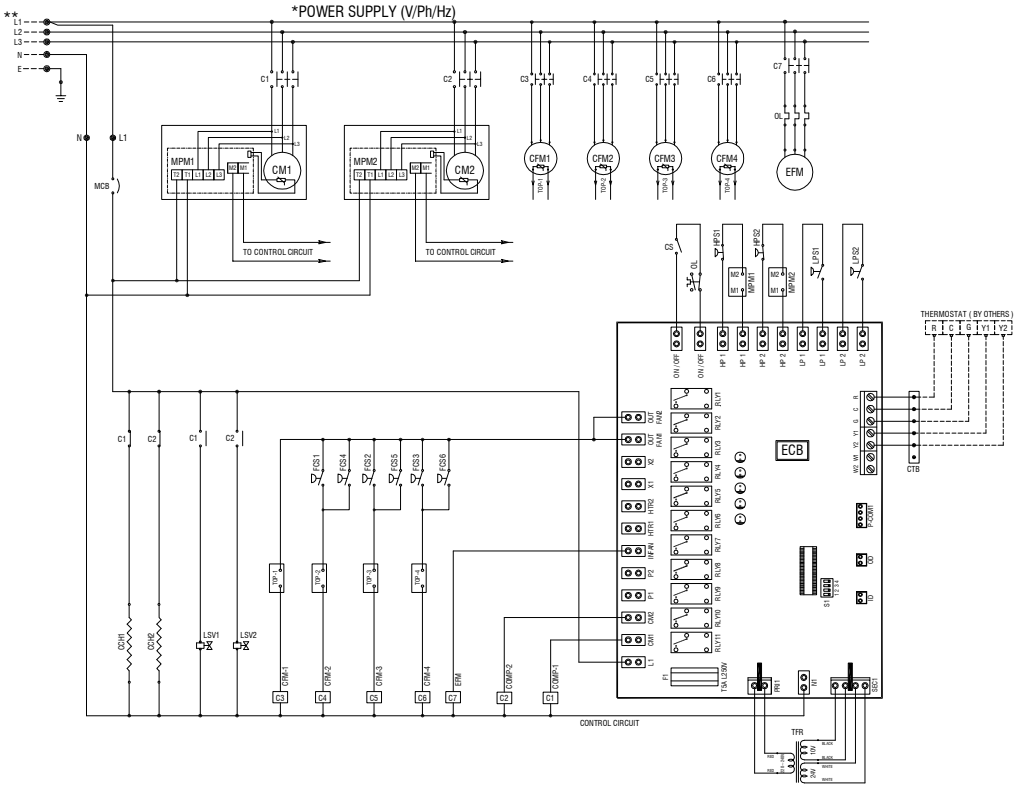
NOTE

★ TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

★★ PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE.

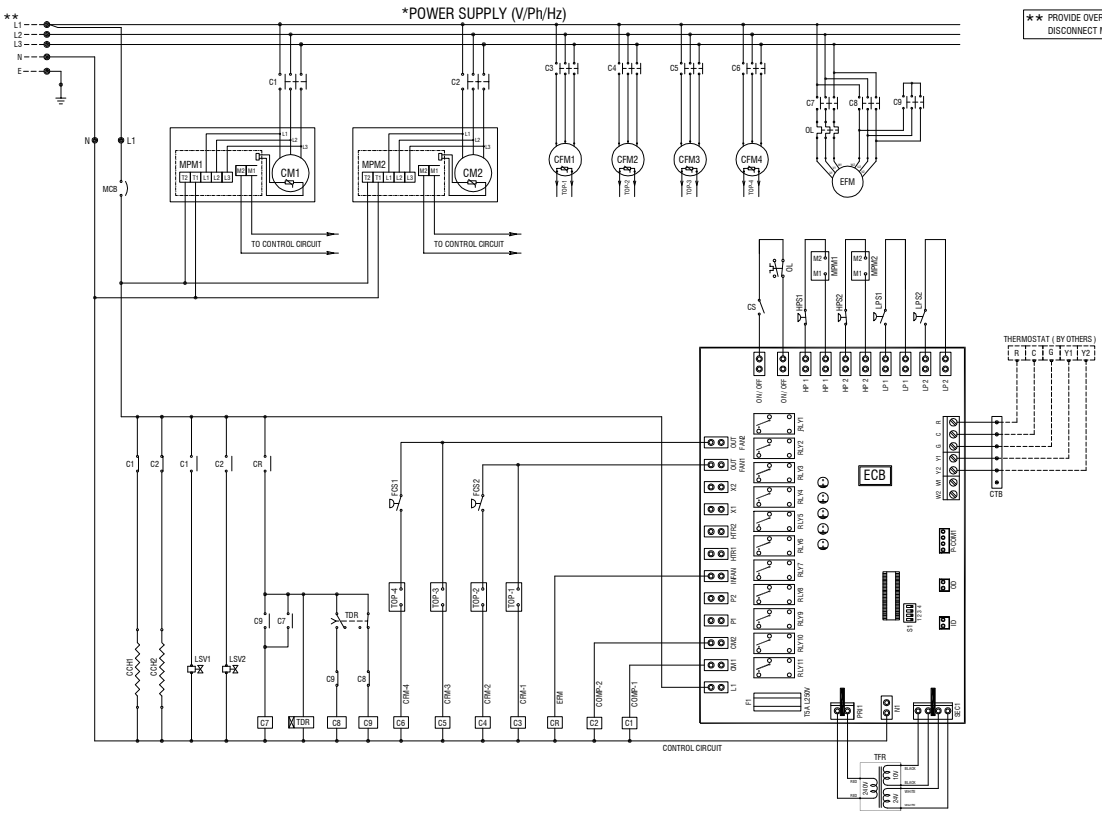
Typical Wiring Diagram (HIGH EFFICIENCY)

APMR Models - 52420 G & 52500 G



LEGEND	
----	FIELD WIRING & FIELD SUPPLIED DEVICES
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
CS	CONTROL SWITCH
CCH	CRANK CASE HEATER
MCB	MINIATURE CIRCUIT BREAKER
EFM	EVAPORATOR FAN MOTOR
OL	OVERLOAD RELAY
CFM	CONDENSER FAN MOTOR
CM	COMPRESSOR MOTOR
MPM	MOTOR PROTECTOR MODULE
C	CONTACTOR
CR	CONTROL RELAY
ECB	ELECTRONIC CONTROL BOARD
PTB	POWER TERMINAL BLOCK
CTB	CONTROL TERMINAL BLOCK
LSV	LIQUID LINE SOLENOID VALVE
TFR	TRANSFORMER
TOP	THERMAL OVERLOAD PROTECTOR
TDR	TIME DELAY REALY

APMR Models - 52560 G



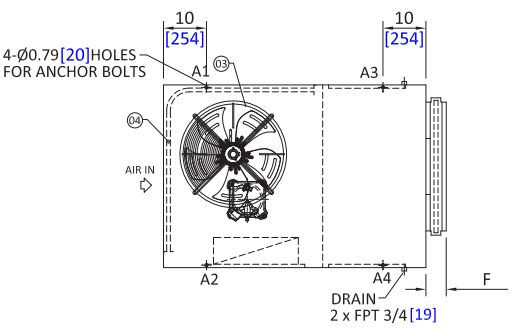
NOTE

★ TYPICAL WIRING DIAGRAM SHOWN IS SUITABLE FOR 380~415V/3Ph/50Hz ONLY, FOR 440V/3Ph/50Hz PLEASE CONSULT SKM

★★ PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT AND DISCONNECT MEANS AS REQUIRED BY LOCAL & NATIONAL ELECTRIC CODE

Dimensional Data

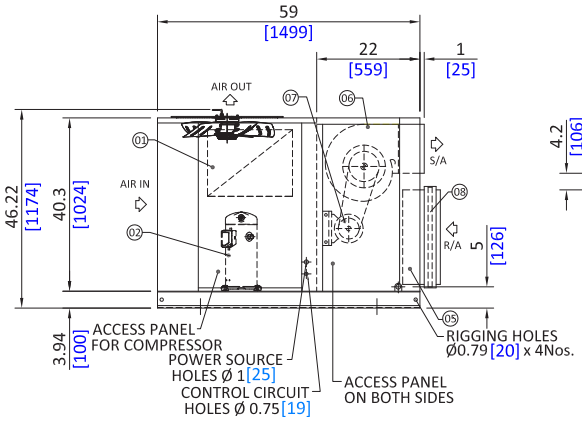
APMR Model - 51050

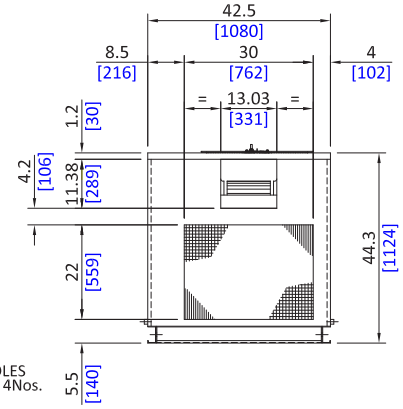


LEGEND

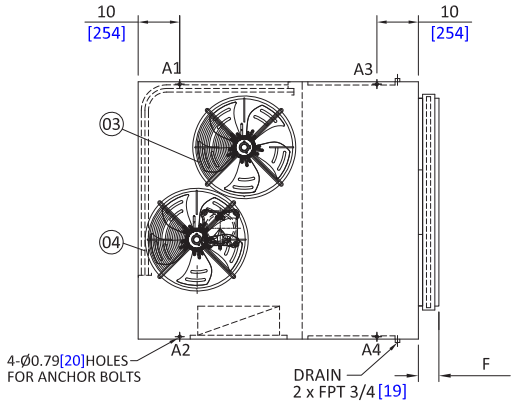
01 CONTROL PANEL
02 COMPRESSOR
03 CONDENSER FAN
04 CONDENSER COIL
05 EVAPORATOR COIL
06 EVAPORATOR FAN
07 EVAPORATOR FAN MOTOR
08 1" THICK FLAT FILTER

ALL DIMENSIONS ARE IN INCHES [mm]
A1-A4 ARE LOADING POINTS
F=3.94 [100] FOR 1" FLAT FILTER(STANDARD)
F=4.93 [125] FOR 2"FLAT FILTER(OPTIONAL)





APMR Models - 51060 to 52115

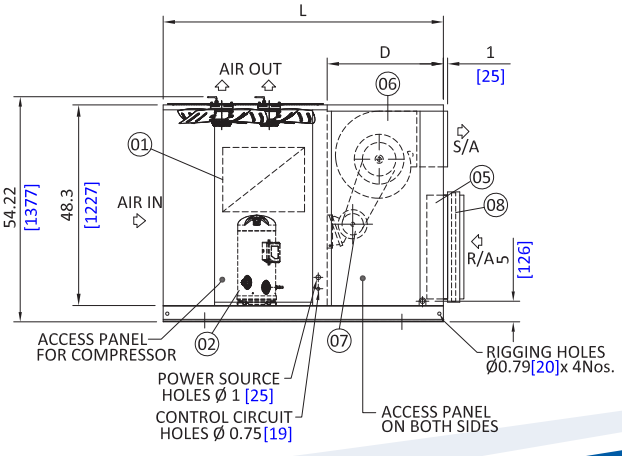


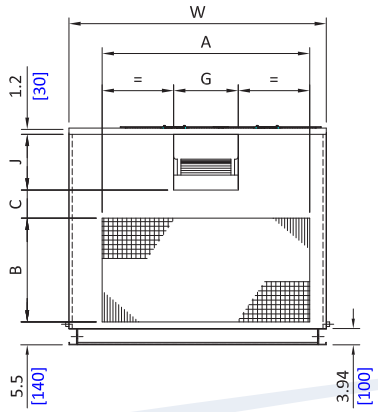
Model APMR	DIMENSIONS							
	L	W	A	B	C	D	J	G
51060	61.5 [1562]	50.6 [1285]	30 [762]	22 [559]	12.2 [309]	22 [559]	11.38 [289]	13.03 [331]
51075		50.6 [1285]	38.6 [980]	24 [610]	10.2 [259]	22 [559]	11.38 [289]	13.03 [331]
51080	67.5 [1714]	50.6 [1285]	38.6 [980]	24 [610]	8.1 [207]	28 [711]	13.43 [341]	15.55 [395]
51100		62 [1575]	50 [1270]	25 [635]	7.1 [181]	28 [711]	13.43 [341]	15.55 [395]
*52115		68 [1727]	56 [1422]	25 [635]	7.1 [181]	28 [711]	13.43 [341]	15.55 [395]

Table 17

*MODEL WITH TWO COMPRESSOR

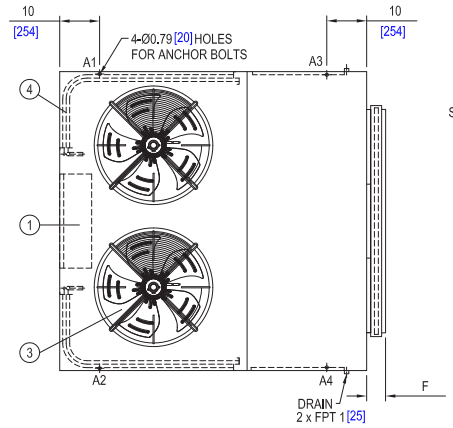
ALL DIMENSIONS ARE IN INCHES[MM]

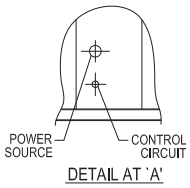




Dimensional Data

APMR Models - 52125 & 52150





LEGEND

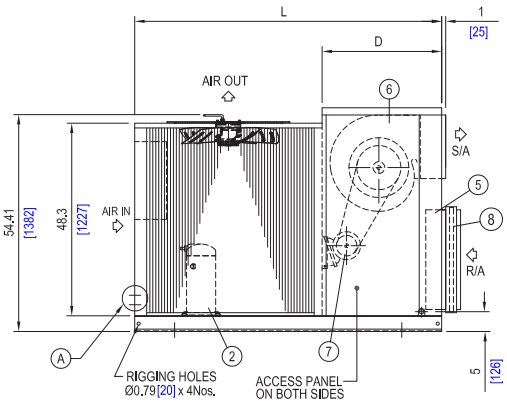
1. CONTROL PANEL
2. COMPRESSOR
3. CONDENSER FAN
4. CONDENSER COIL
5. EVAPORATOR COIL
6. EVAPORATOR FAN
7. EVAPORATOR FAN MOTOR
8. 1" THICK FLAT FILTER

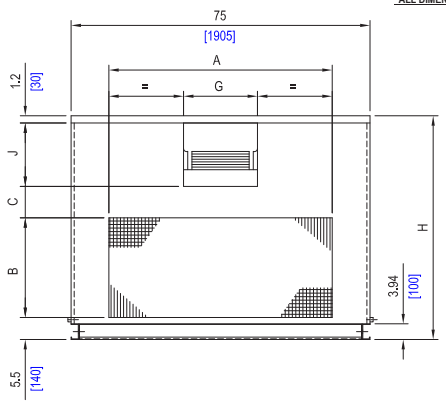
ALL DIMENSIONS ARE IN INCHES [mm]
A1-A4 ARE LOADING POINTS
F=3.94 [100] FOR 1" FLAT FILTER(STANDARD)
F=4.93 [125] FOR 2"FLAT FILTER(OPTIONAL)

Model APMR	DIMENSIONS							
	L	A	B	C	D	J	G	H
52125	75 [1905]	56 [1422]	25 [635]	7.1 [181]	28 [711]	13.43 [341]	15.55 [395]	52.2 [1327]
52150	77 [1956]	60 [1524]	30 [762]	8.5 [216]	30 [762]	15.91 [404]	18.5 [471]	61.12 [1552]

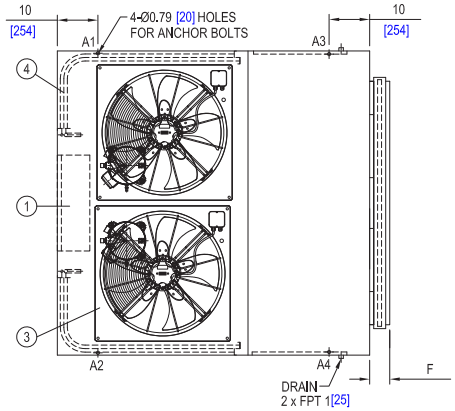
ALL DIMENSIONS ARE IN INCHES[MM]

Table 18





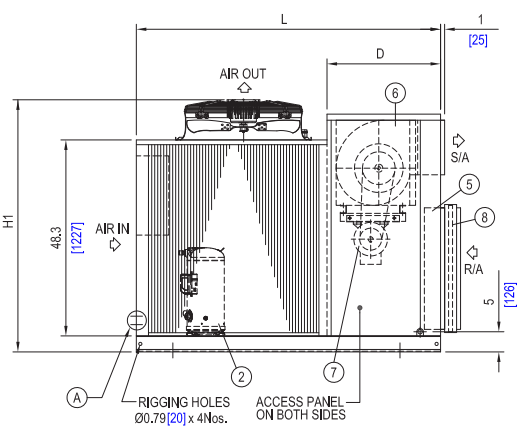
APMR Models - 52170 to 52270

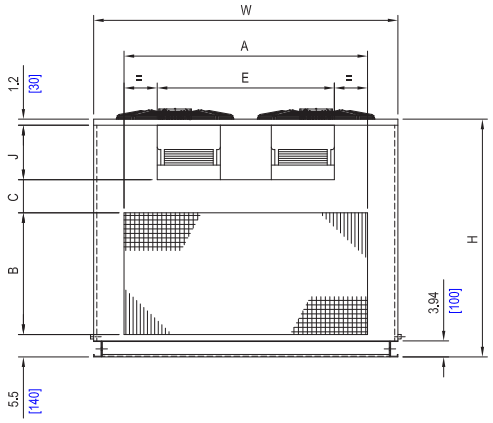


Model APMR	DIMENSIONS									
	L	W	A	B	D	J	E	H	C	H1
52170	75 [1905]	75 [1905]	60 [1524]	32 [813]	28 [711]	13.43 [341]	43.7 [1109]	59.63 [1515]	7.5 [191]	62.14 [1578]
52200	85 [2159]	80 [2032]	70 [1778]	32 [813]	28 [711]	13.43 [341]	43.7 [1109]	59.63 [1515]	7.5 [191]	62.14 [1578]
52230	85 [2159]	80 [2032]	70 [1778]	32 [813]	28 [711]	13.43 [341]	43.7 [1109]	59.63 [1515]	7.5 [191]	62.14 [1578]
52240	101.6 [2580]	88 [2235]	78 [1981]	36 [914]	38.6 [980]	15.91 [404]	52.3 [1328]	67.11 [1705]	8.5 [216]	63.9 [1622]
52270	101.6 [2580]	88 [2235]	78 [1981]	36 [914]	38.6 [980]	15.91 [404]	52.3 [1328]	67.11 [1705]	8.5 [216]	63.9 [1622]

ALL DIMENSIONS ARE IN INCHES[MM]

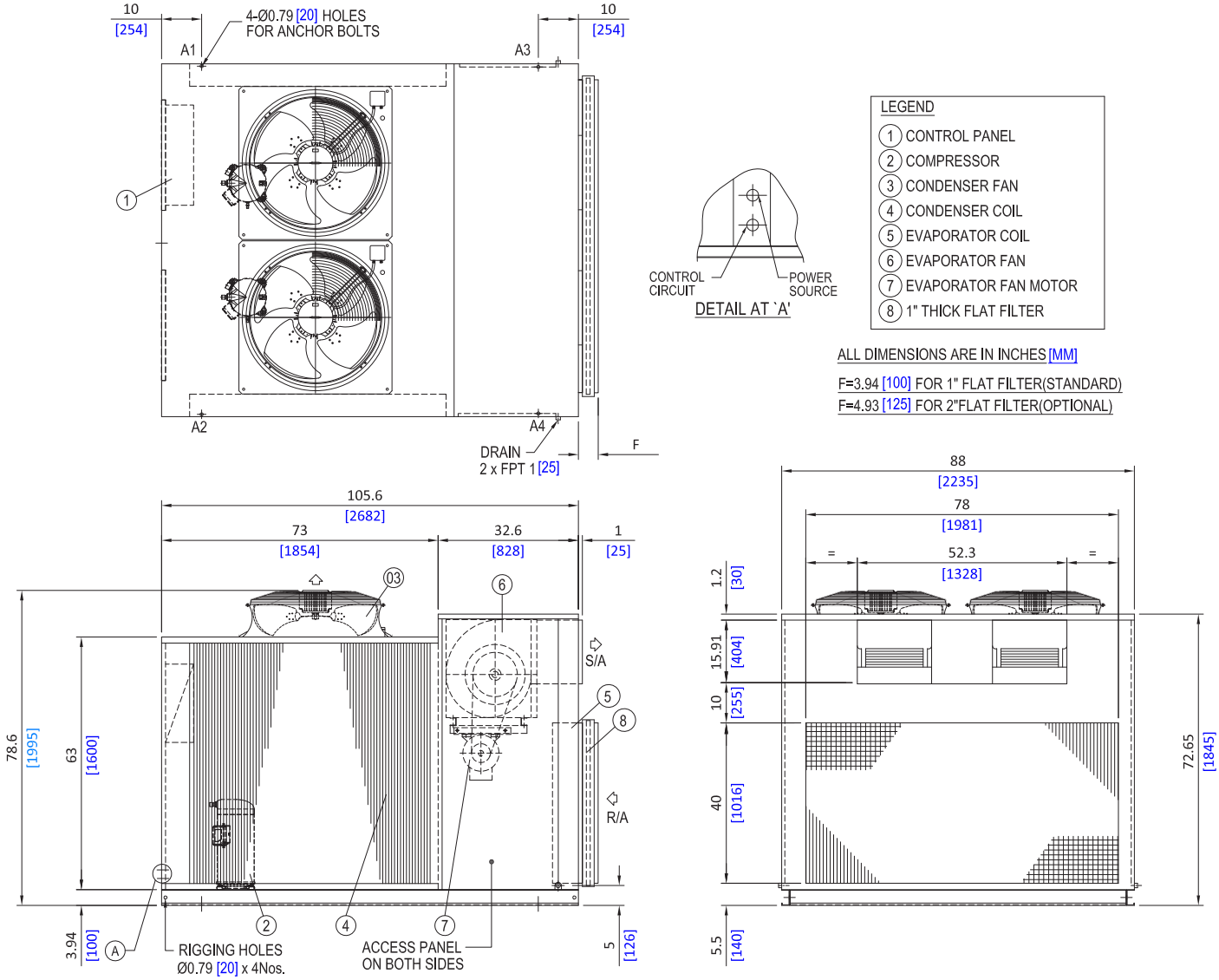
Table 19





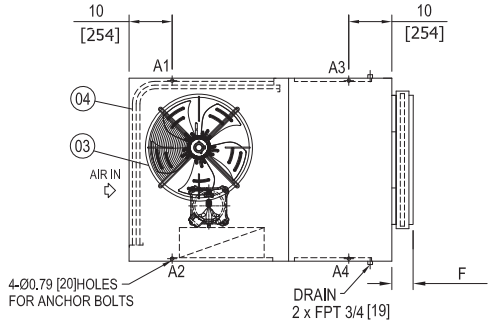
Dimensional Data

APMR Models - 52300 & 52340



Dimensional Data (HIGH EFFICIENCY)

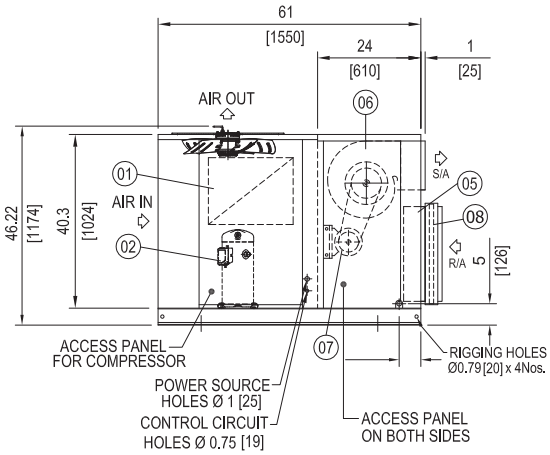
APMR Model - 51050 G

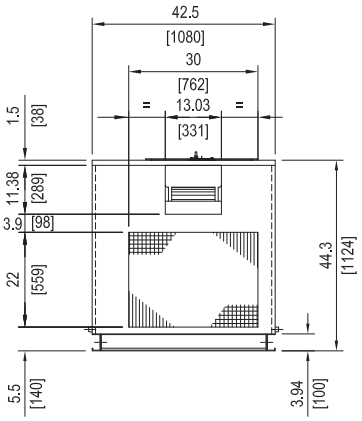


LEGEND

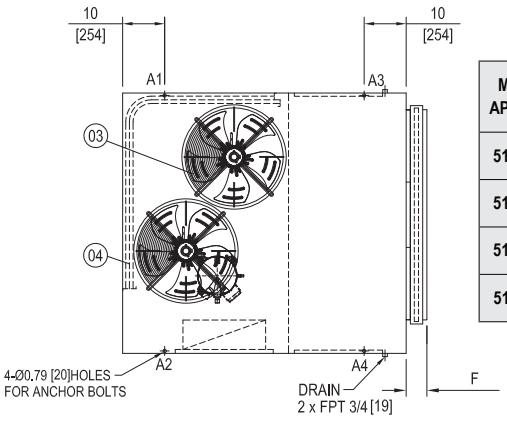
01 CONTROL PANEL
02 COMPRESSOR
03 CONDENSER FAN
04 CONDENSER COIL
05 EVAPORATOR COIL
06 EVAPORATOR FAN
07 EVAPORATOR FAN MOTOR
08 1" THICK FLAT FILTER

ALL DIMENSIONS ARE IN INCHES [mm]
A1-A4 ARE LOADING POINTS
F=4.72[120] FOR 1" FLAT FILTER(STANDARD)
F=5.7 [145] FOR 2"FLAT FILTER(OPTIONAL)





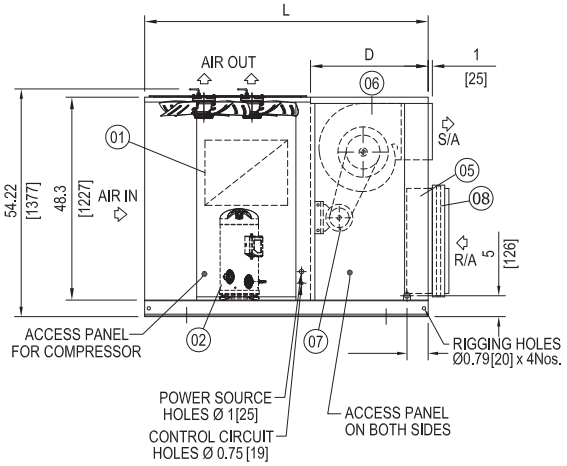
APMR Models - 51060 G to 51100 G

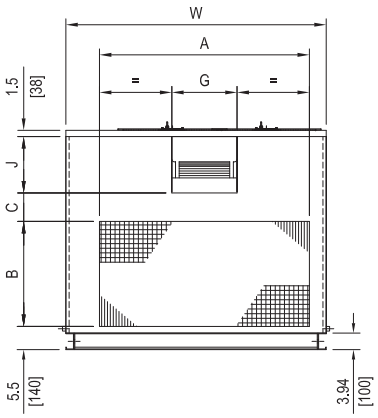


Model APMR-G	DIMENSIONS							
	L	W	A	B	C	D	J	G
51060G	63.5 [1613]	50.6 [1285]	30 [762]	22 [559]	11.9 [301]	24 [610]	11.38 [289]	13.03 [331]
51075G		50.6 [1285]	38.6 [980]	24 [610]	9.84 [250]	24 [610]	11.38 [289]	13.03 [331]
51080G	67.5 [1714]	62 [1575]	50 [1270]	25 [635]	6.8 [173]	28 [711]	13.43 [341]	15.55 [395]
51100G		62 [1575]	50 [1270]	25 [635]	6.8 [173]	28 [711]	13.43 [341]	15.55 [395]

ALL DIMENSIONS ARE IN INCHES [MM]

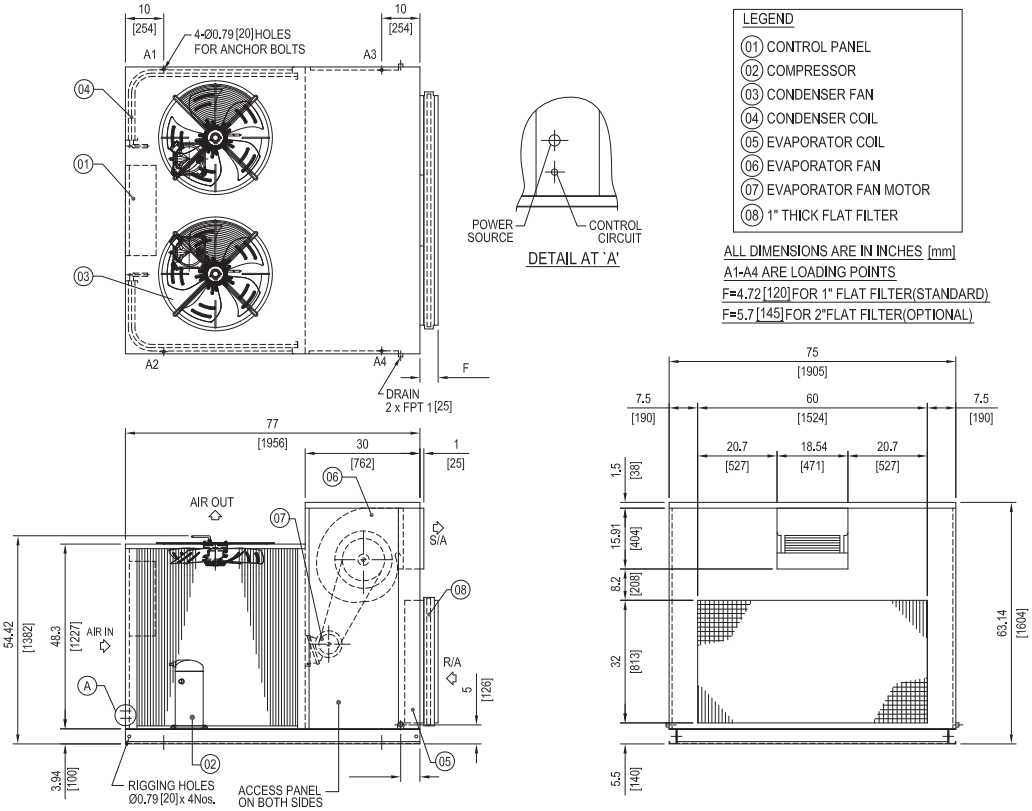
Table 20



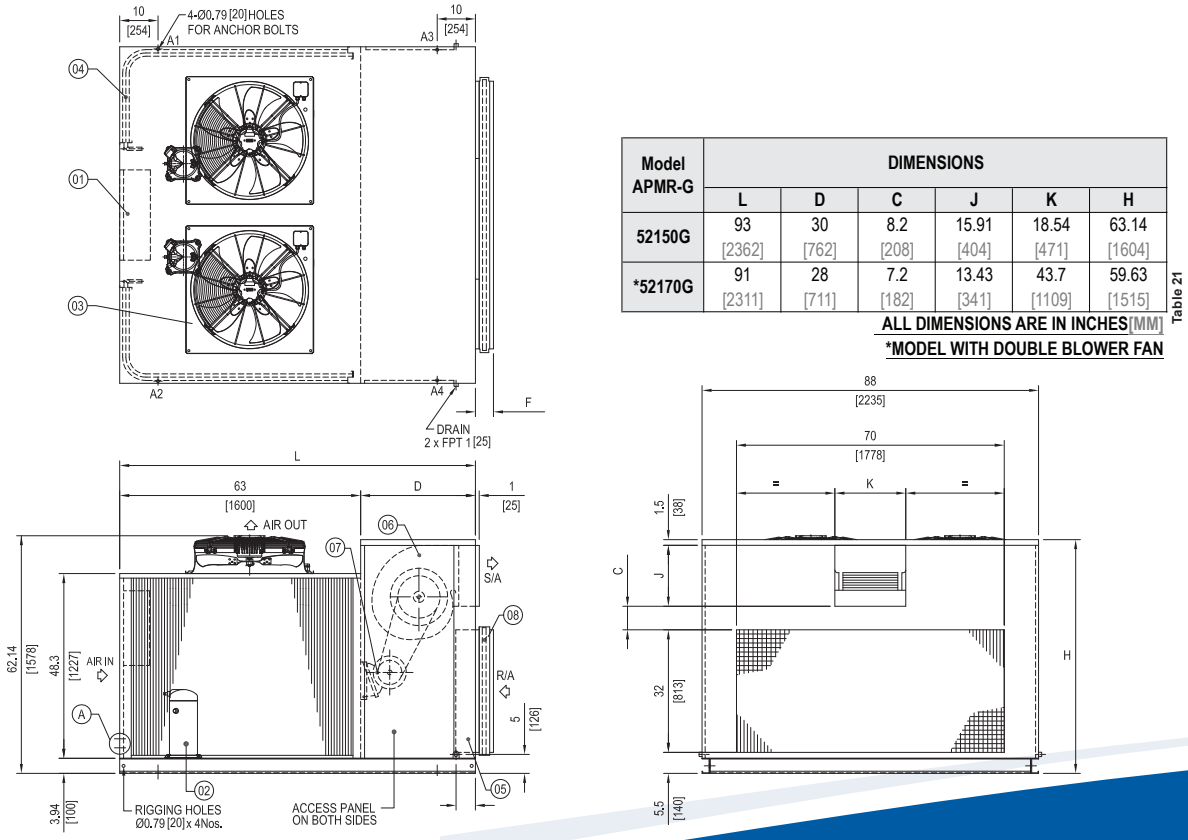


Dimensional Data (HIGH EFFICIENCY)

APMR Model - 52115 G



APMR Models - 52150 G & 52170 G



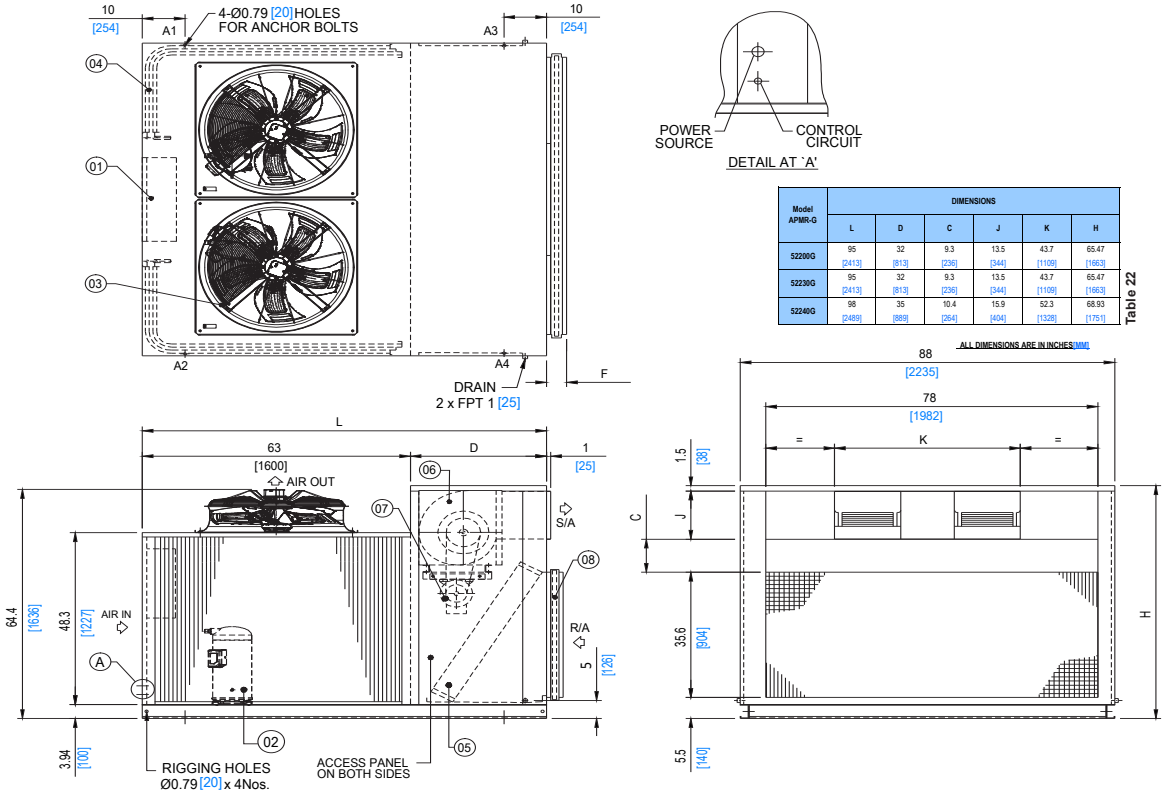
Model APMR-G	DIMENSIONS					
	L	D	C	J	K	H
52150G	93 [2362]	30 [762]	8.2 [208]	15.91 [404]	18.54 [471]	63.14 [1604]
*52170G	91 [2311]	28 [711]	7.2 [182]	13.43 [341]	43.7 [1109]	59.63 [1515]

Table 21

ALL DIMENSIONS ARE IN INCHES [MM]
*MODEL WITH DOUBLE BLOWER FAN

Dimensional Data (HIGH EFFICIENCY)

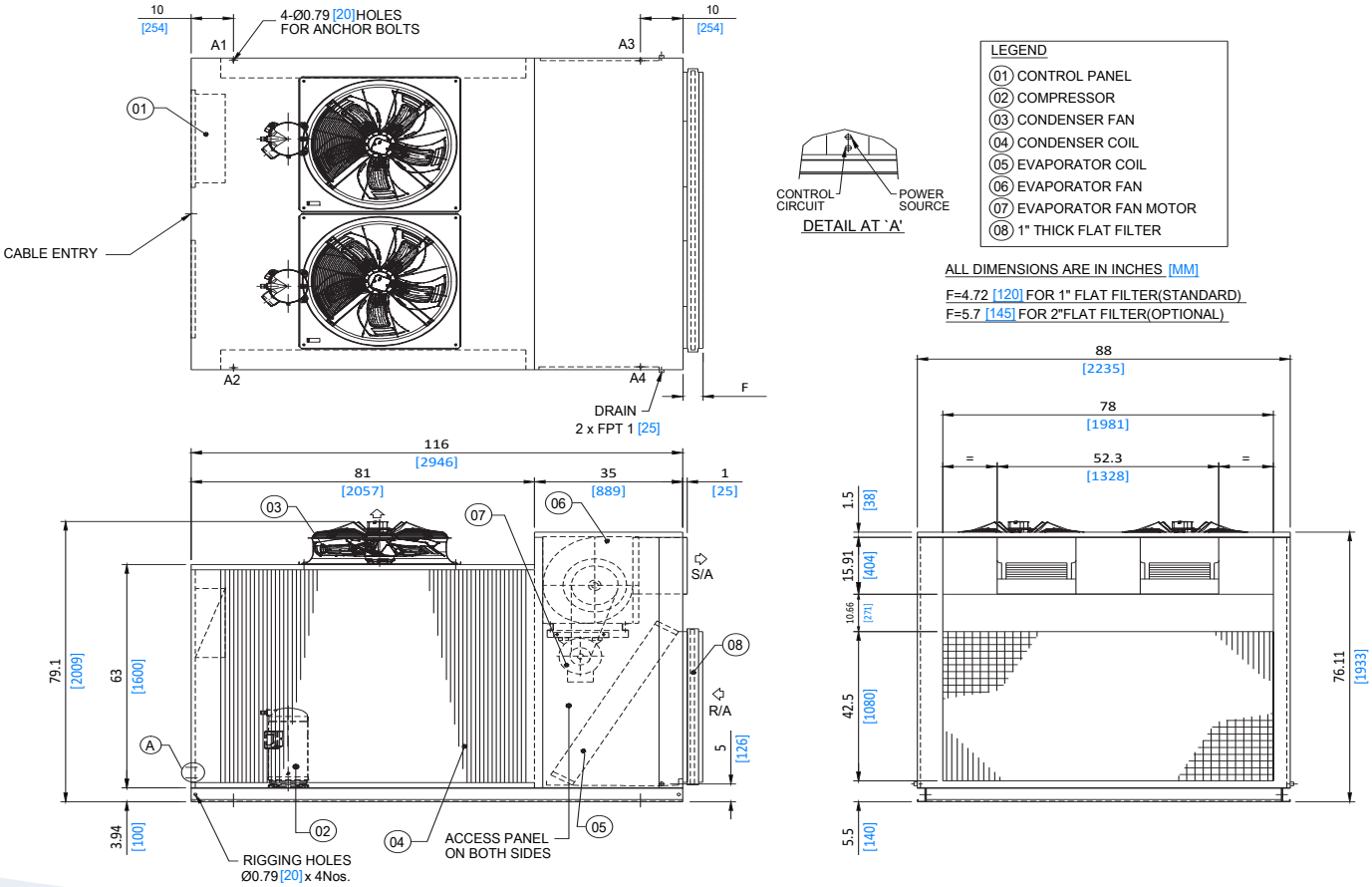
APMR Model - 52200 G to 52240 G



Model APMR-G	DIMENSIONS					
	L	D	C	J	K	H
52200G	95 [2413]	32 [813]	9.3 [236]	13.5 [344]	43.7 [1109]	65.47 [1663]
52230G	95 [2413]	32 [813]	9.3 [236]	13.5 [344]	43.7 [1109]	65.47 [1663]
52240G	98 [2489]	35 [889]	10.4 [264]	15.9 [404]	52.3 [1328]	68.93 [1751]

Table 22

APMR Models - 52270 G to 52340 G

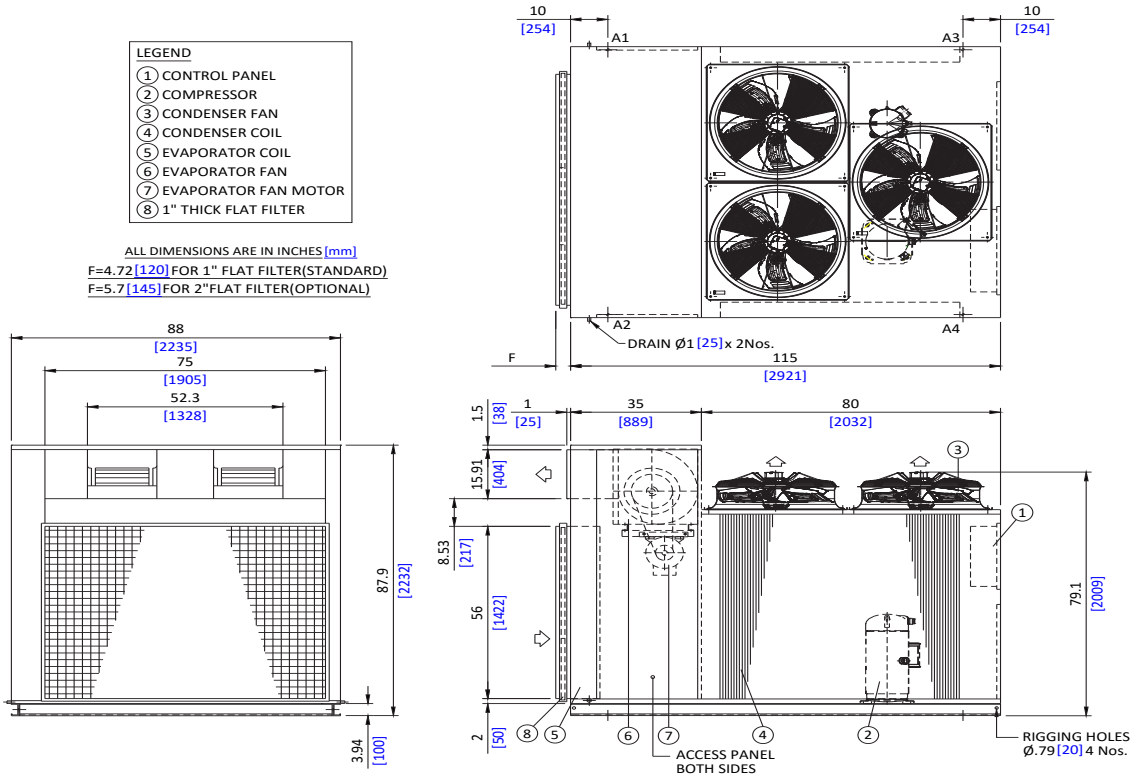


Dimensional Data (HIGH EFFICIENCY)

APMR Model - 52380 G

LEGEND
1. CONTROL PANEL
2. COMPRESSOR
3. CONDENSER FAN
4. CONDENSER COIL
5. EVAPORATOR COIL
6. EVAPORATOR FAN
7. EVAPORATOR FAN MOTOR
8. 1" THICK FLAT FILTER

ALL DIMENSIONS ARE IN INCHES [mm]
F=4.72 [120] FOR 1" FLAT FILTER(STANDARD)
F=5.7 [145] FOR 2"FLAT FILTER(OPTIONAL)

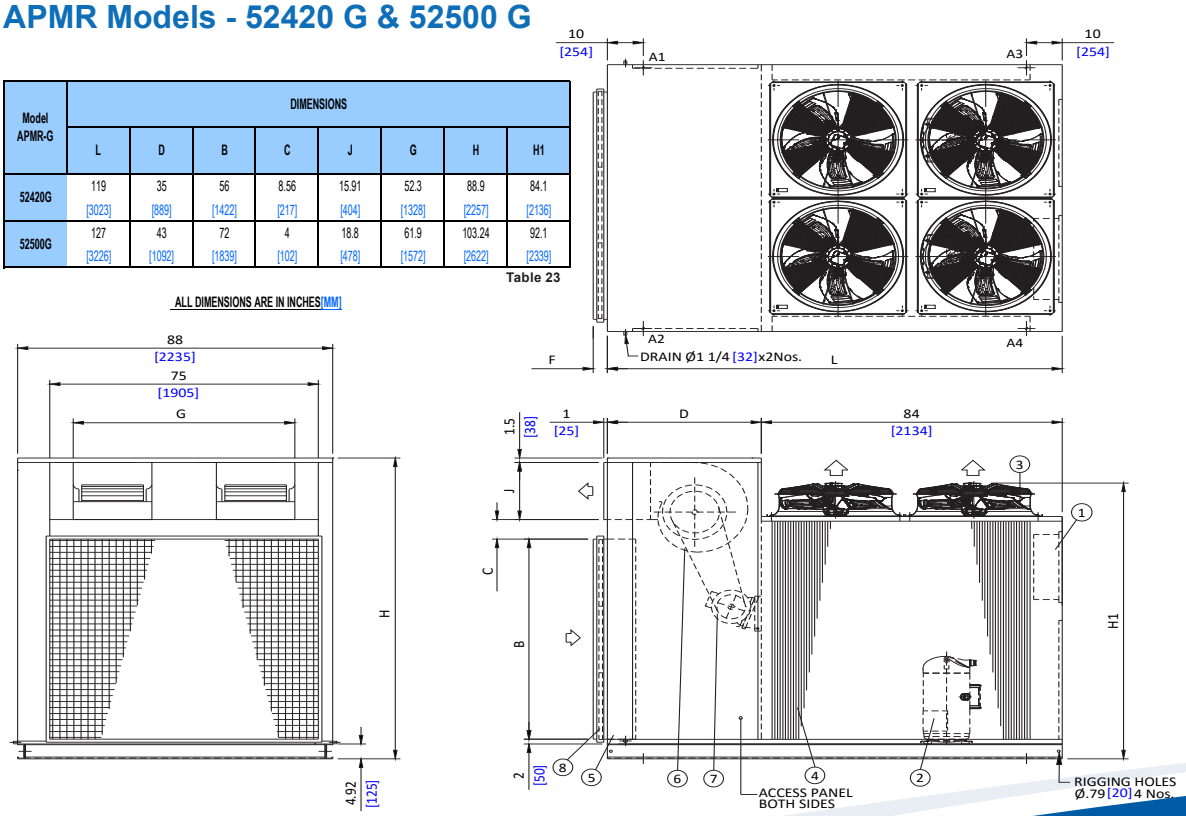


APMR Models - 52420 G & 52500 G

Model APMR-G	DIMENSIONS							
	L	D	B	C	J	G	H	H1
52420G	119 [3023]	35 [889]	56 [1422]	8.56 [217]	15.91 [404]	52.3 [1328]	88.9 [2257]	84.1 [2136]
52500G	127 [3226]	43 [1092]	72 [1839]	4 [102]	18.8 [478]	61.9 [1572]	103.24 [2622]	92.1 [2339]

Table 23

ALL DIMENSIONS ARE IN INCHES [MM]

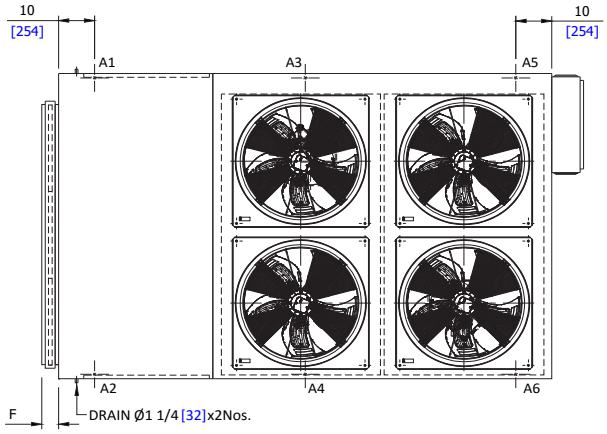


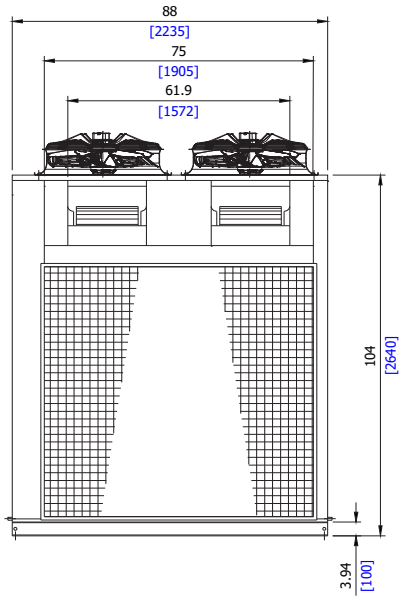
Dimensional Data (HIGH EFFICIENCY)

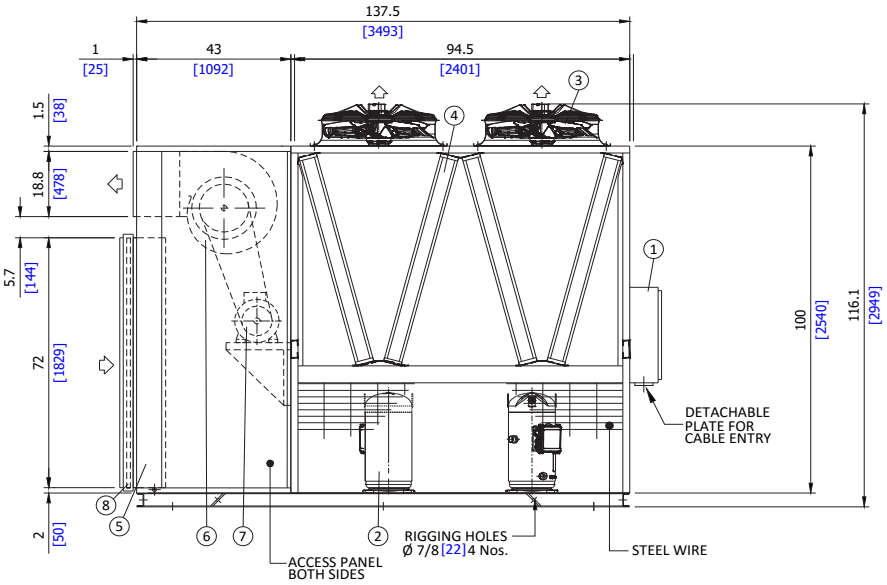
APMR Model - 52560 G

LEGEND
1. CONTROL PANEL
2. COMPRESSOR
3. CONDENSER FAN
4. CONDENSER COIL
5. EVAPORATOR COIL
6. EVAPORATOR FAN
7. EVAPORATOR FAN MOTOR
8. 1" THICK FLAT FILTER

ALL DIMENSIONS ARE IN INCHES [MM]
F=4.72 [120] FOR 1" FLAT FILTER(STANDARD)
F=5.7 [145] FOR 2"FLAT FILTER(OPTIONAL)







Loading Points

MODEL APMR	LOAD AT EACH POINT Lbs (Kgs)				TOTAL WEIGHT
	A1	A2	A3	A4	
51050	142 [65]	155 [70]	144 [65]	144 [65]	585 [265]
51060	163 [74]	191 [87]	162 [73]	165 [75]	681 [309]
51075	164 [74]	191 [87]	169 [77]	171 [77]	695 [315]
51080	174 [79]	222 [101]	185 [84]	190 [86]	771 [350]
51100	222 [101]	254 [115]	215 [98]	218 [99]	909 [413]
52115	248 [112]	305 [139]	243 [110]	254 [115]	1050 [476]
52125	328 [149]	333 [151]	282 [128]	299 [135]	1242 [563]
52150	329 [149]	335 [152]	298 [135]	315 [143]	1277 [579]
52170	376 [171]	383 [174]	344 [156]	366 [166]	1469 [667]
52200	437 [198]	444 [201]	403 [183]	425 [193]	1709 [775]
52230	438 [199]	445 [202]	417 [189]	441 [200]	1741 [790]
52240	472 [214]	479 [217]	453 [205]	474 [215]	1878 [851]
52270	478 [217]	485 [220]	470 [213]	492 [223]	1925 [873]
52300	540 [245]	421 [191]	553 [251]	536 [243]	2050 [930]
52340	600 [272]	481 [218]	580 [263]	564 [256]	2225 [1009]

Table 24

Loading Points (HIGH EFFICIENCY)

MODEL APMR-G	LOAD AT EACH POINT Lbs (Kgs)						TOTAL WEIGHT
	A1	A2	A3	A4	A5	A6	
51050 G	152 [69]	165 [75]	150 [68]	150 [68]	-	-	617 [280]
51060 G	173 [78]	201 [91]	172 [78]	175 [79]	-	-	721 [326]
51075 G	174 [79]	201 [91]	179 [81]	181 [82]	-	-	735 [333]
51080 G	230 [105]	260 [118]	225 [102]	227 [103]	-	-	942 [428]
51100 G	232 [105]	264 [120]	225 [102]	228 [103]	-	-	949 [430]
52115 G	248 [113]	305 [138]	243 [110]	254 [115]	-	-	1050 [476]
52150 G	459 [208]	459 [208]	373 [169]	368 [167]	-	-	1659 [752]
52170 G	485 [220]	485 [220]	396 [180]	388 [176]	-	-	1754 [796]
52200 G	514 [233]	514 [233]	414 [188]	400 [181]	-	-	1842 [835]
52230 G	518 [235]	518 [235]	414 [188]	400 [181]	-	-	1850 [839]
52240 G	535 [243]	535 [243]	428 [194]	413 [187]	-	-	1911 [867]
52270 G	613 [278]	582 [264]	591 [268]	575 [261]	-	-	2361 [1071]
52300 G	622 [282]	590 [268]	623 [283]	605 [274]	-	-	2440 [1107]
52340 G	627 [284]	595 [270]	624 [283]	605 [275]	-	-	2451 [1112]
52380 G	778 [353]	784 [355]	913 [414]	957 [434]	-	-	3432 [1556]
52420 G	844 [383]	877 [398]	1091 [495]	1111 [504]	-	-	3923 [1780]
52500 G	940 [426]	973 [441]	1121 [508]	1145 [519]	-	-	4179 [1894]
52560 G	550 [249]	580 [263]	1261 [572]	1171 [531]	594 [269]	701 [318]	4857 [2202]

Table 25

Recommended Clearances

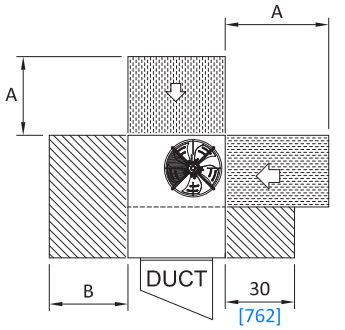
MODEL APMR	A	B	C
51050	44 [1118]	34 [864]	72 [1829]
51060	52 [1321]		88 [2235]
51075		42 [1067]	
51080			
51100		54 [1372]	
52115		60 [1524]	

Table 26

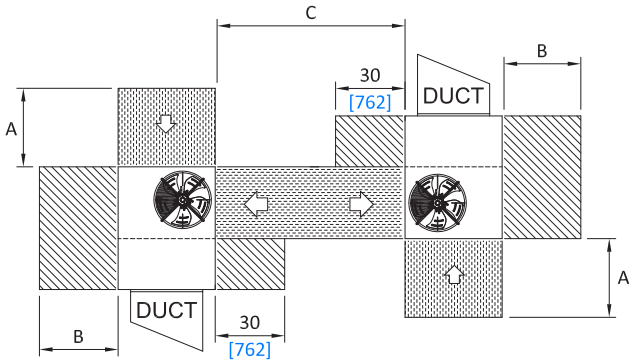
ALL DIMENSIONS ARE IN INCHES [MM]

SPACING FOR SERVICE

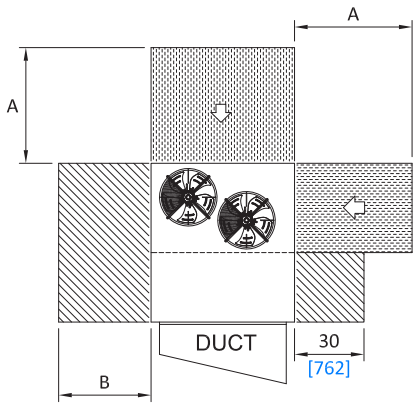
SPACING FOR AIR FLOW



APMR- 51050

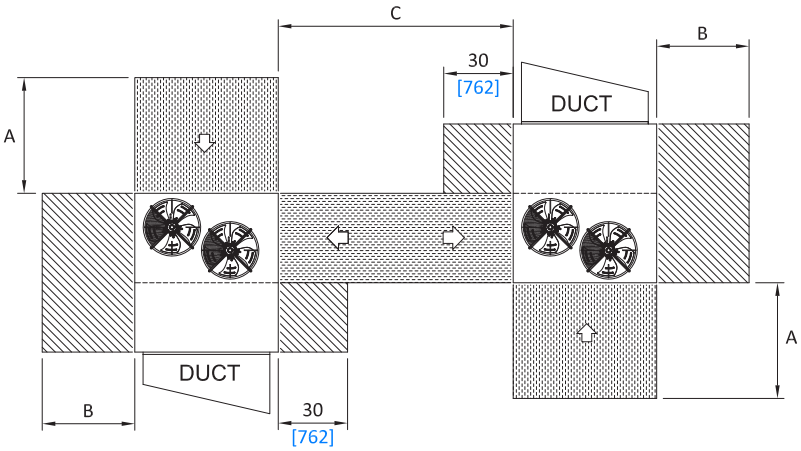


APMR- 51050



APMR- 51060 to 52115

SINGLE UNIT



APMR- 51060 to 52115

MULTIPLE UNIT

Recommended Clearances

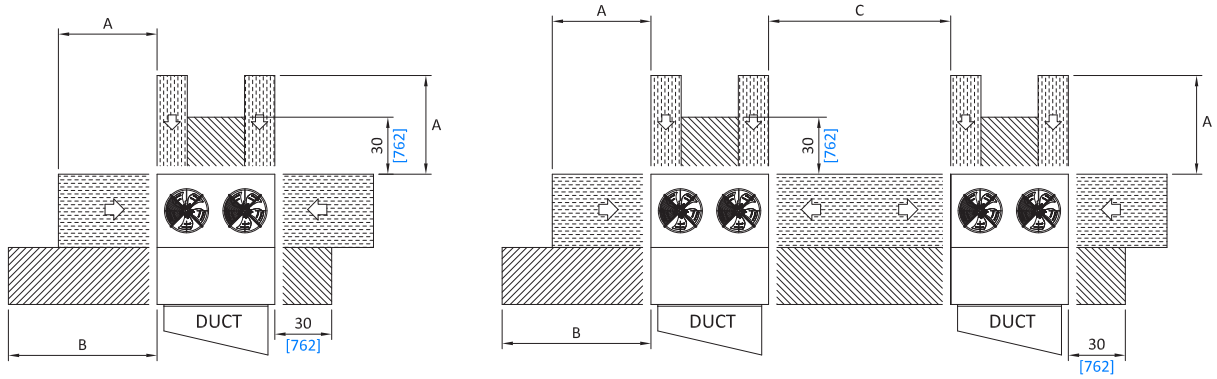
MODEL APMR	A	B	C
52125	52 [1321]	60 [1524]	88 [2235]
52150		64 [1626]	
52170			
52200		74 [1880]	
52230			
52240		82 [2083]	
52270			
52300	68 [1727]		120 [3048]
52340			

ALL DIMENSIONS ARE IN INCHES [MM]

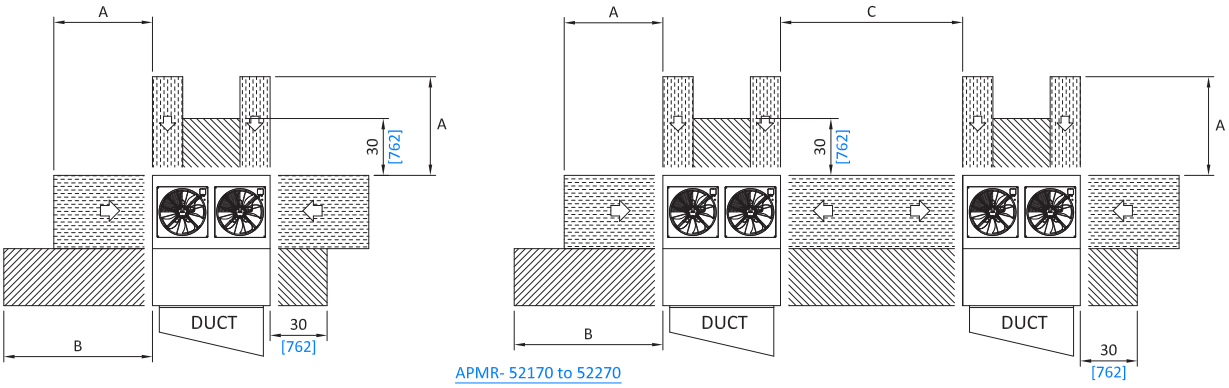
Table 27

SPACING FOR AIR FLOW

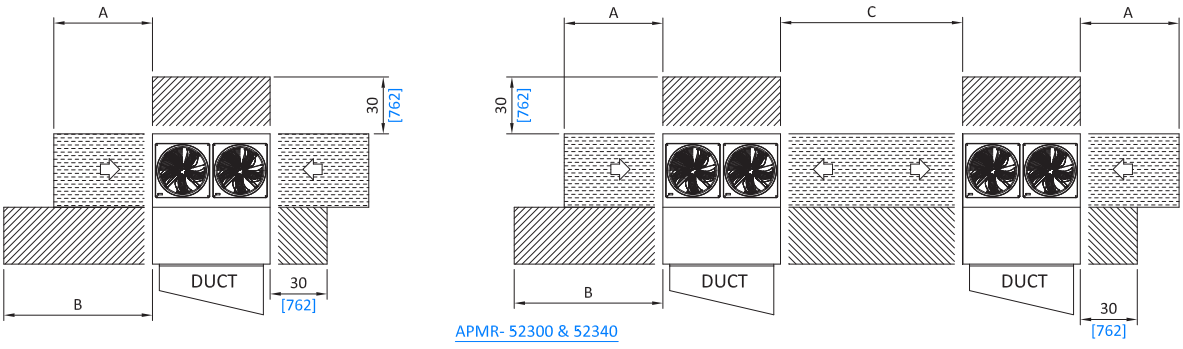
SPACING FOR SERVICE



APMR-52125 &52150



APMR- 52170 to 52270



APMR- 52300 & 52340

SINGLE UNIT

MULTIPLE UNIT

Recommended Clearances (HIGH EFFICIENCY)

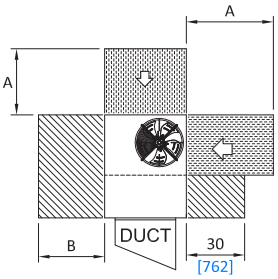
MODEL APMR-G	A	B	C
51050G	44 [1118]	34 [864]	72 [1829]
51060G	52 [1321]	42 [1067]	88 [2235]
51075G		54 [1372]	
51080G			
51100G			
52115G		64 [1626]	

ALL DIMENSIONS ARE IN INCHES [MM]

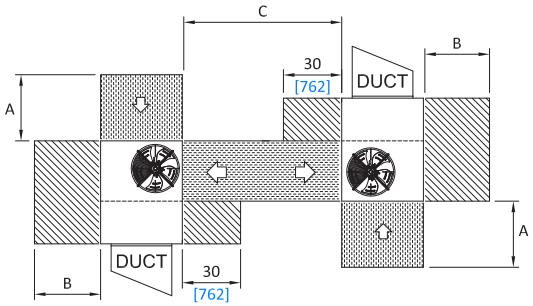
Table 28

SPACING FOR AIR FLOW

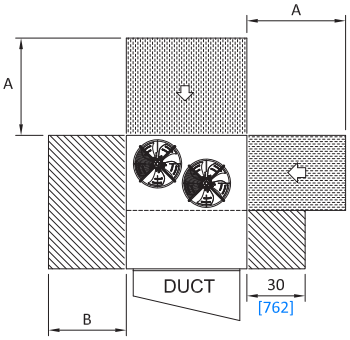
SPACING FOR SERVICE



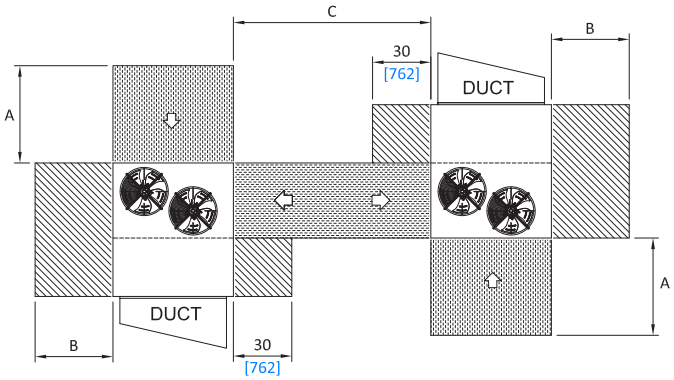
APMR- 51050G



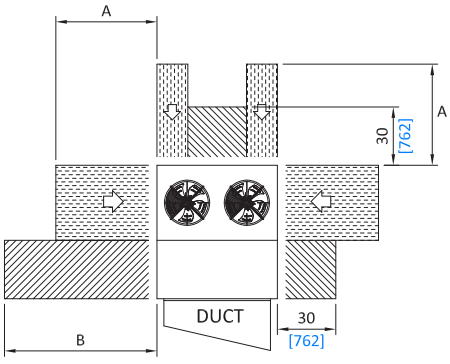
APMR- 51050G



APMR- 51060G to 51100G

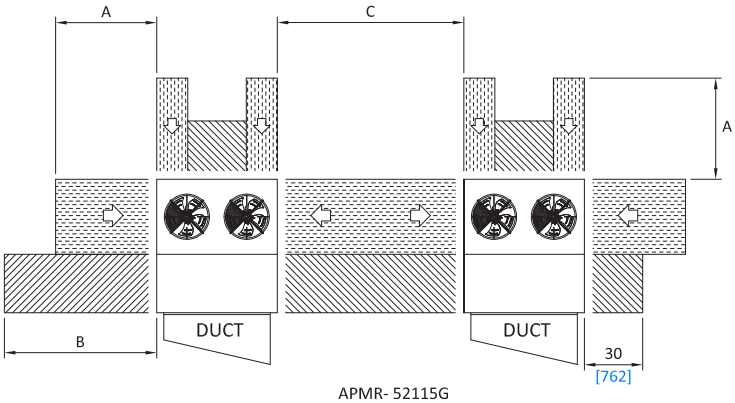


APMR- 51060G to 51100G



APMR- 52115G

SINGLE UNIT



APMR- 52115G

MULTIPLE UNIT

Recommended Clearances (HIGH EFFICIENCY)

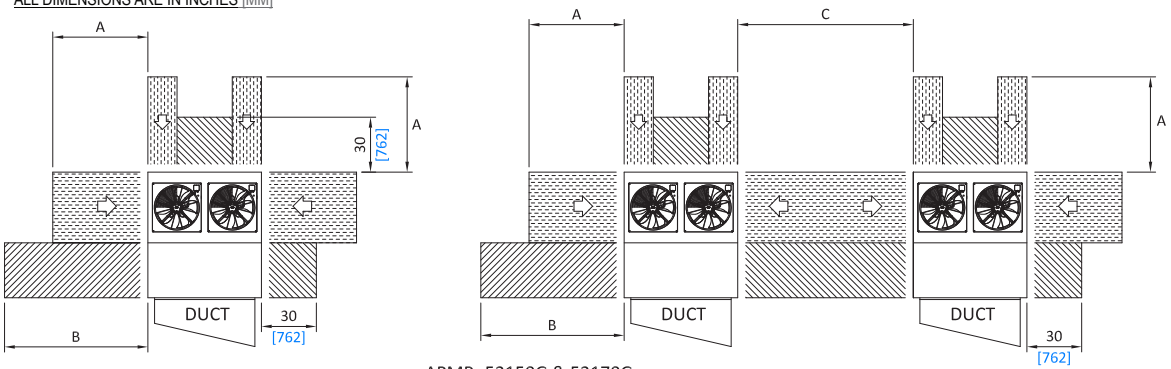
MODEL APMR-G	A	B	C
52150G	52 [1321]	74 [1880]	88 [2235]
52170G			
52200G		82 [2083]	
52230G			
52240G			
52270G	76 [1930]		136 [3454]
52300G			
52340G			

Table 29

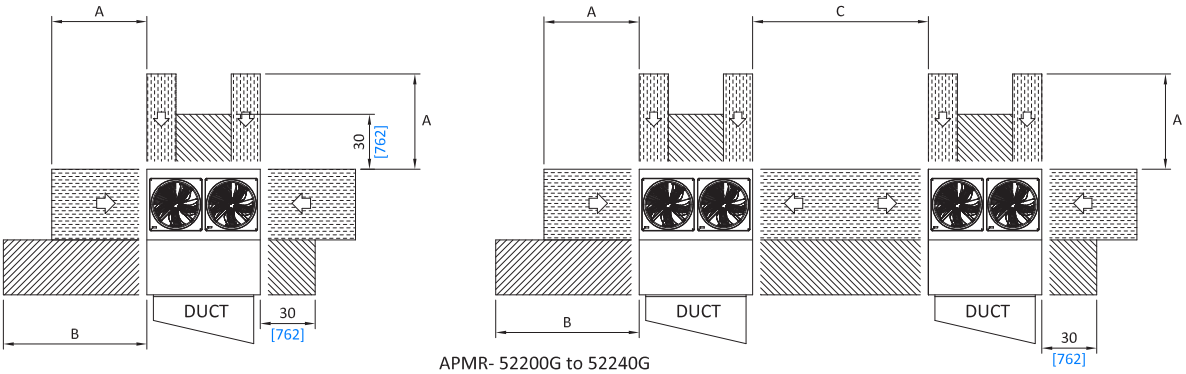
ALL DIMENSIONS ARE IN INCHES [MM]

SPACING FOR AIR FLOW

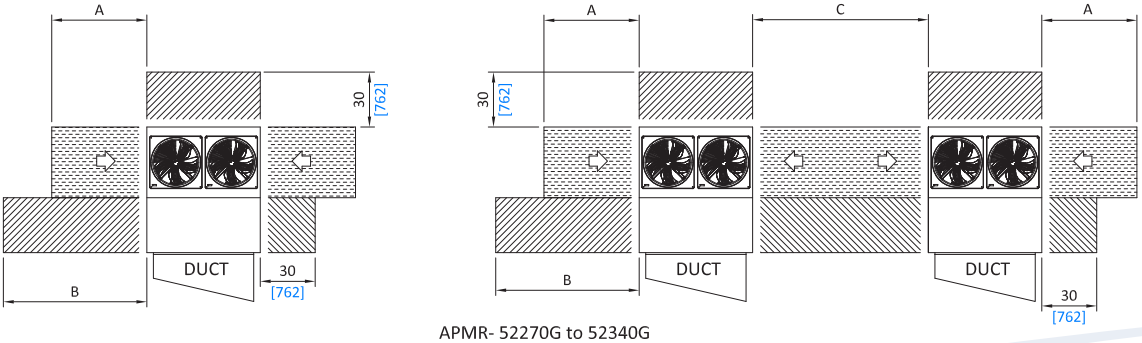
SPACING FOR SERVICE



APMR- 52150G & 52170G



APMR- 52200G to 52240G



APMR- 52270G to 52340G

SINGLE UNIT

MULTIPLE UNIT

Recommended Clearances (HIGH EFFICIENCY)

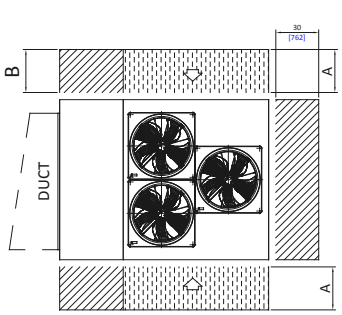
MODEL APMR-G	A	B	C
52380G	68 [1727]	79 [2007]	120 [3048]
52420G	76 [1930]		136 [3454]
52500G			

Table 30

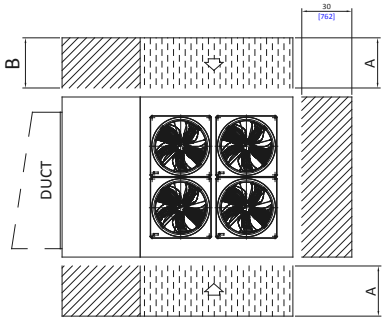
ALL DIMENSIONS ARE IN INCHES [MM]

SPACING FOR SERVICE

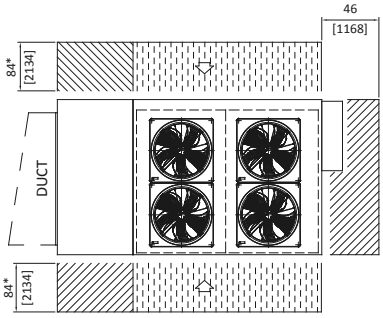
SPACING FOR AIR FLOW



APMR- 52380G



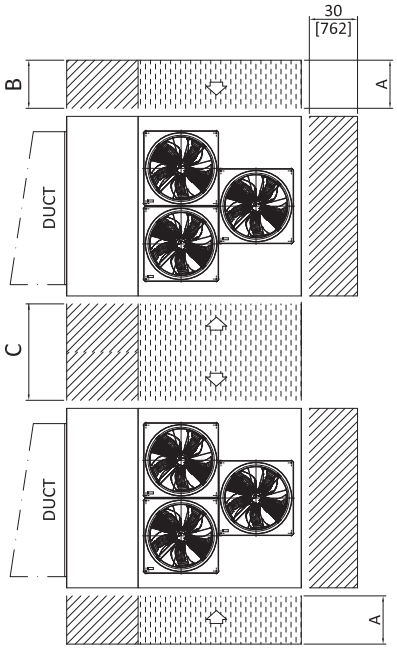
APMR-52420G & 52500G



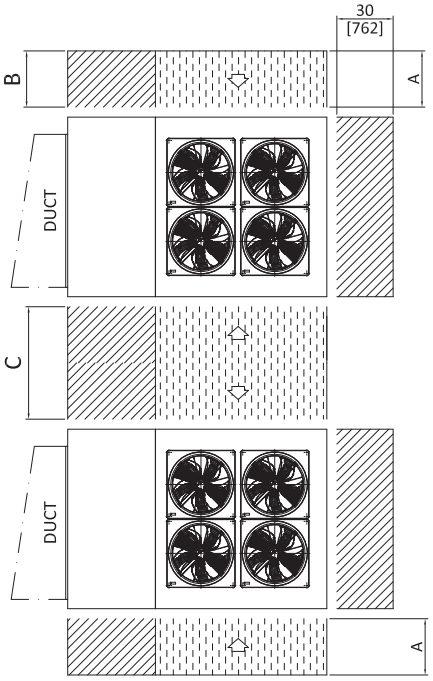
APMR-52560G

* SPACING FOR BOTH AIR FLOW & SERVICE

SINGLE UNIT INSTALLATION



APMR-52380G



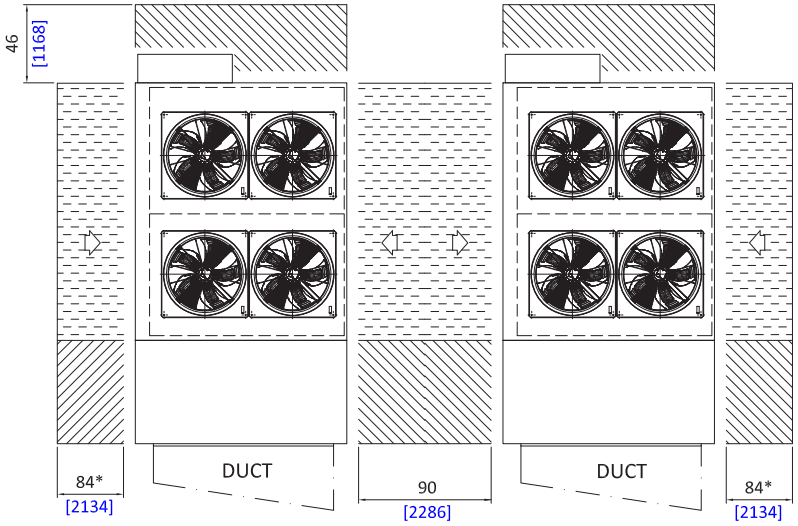
APMR-52420G & 52500G

MULTIPLE UNIT INSTALLATION

Recommended Clearances (HIGH EFFICIENCY)

SPACING FOR SERVICE

SPACING FOR AIR FLOW



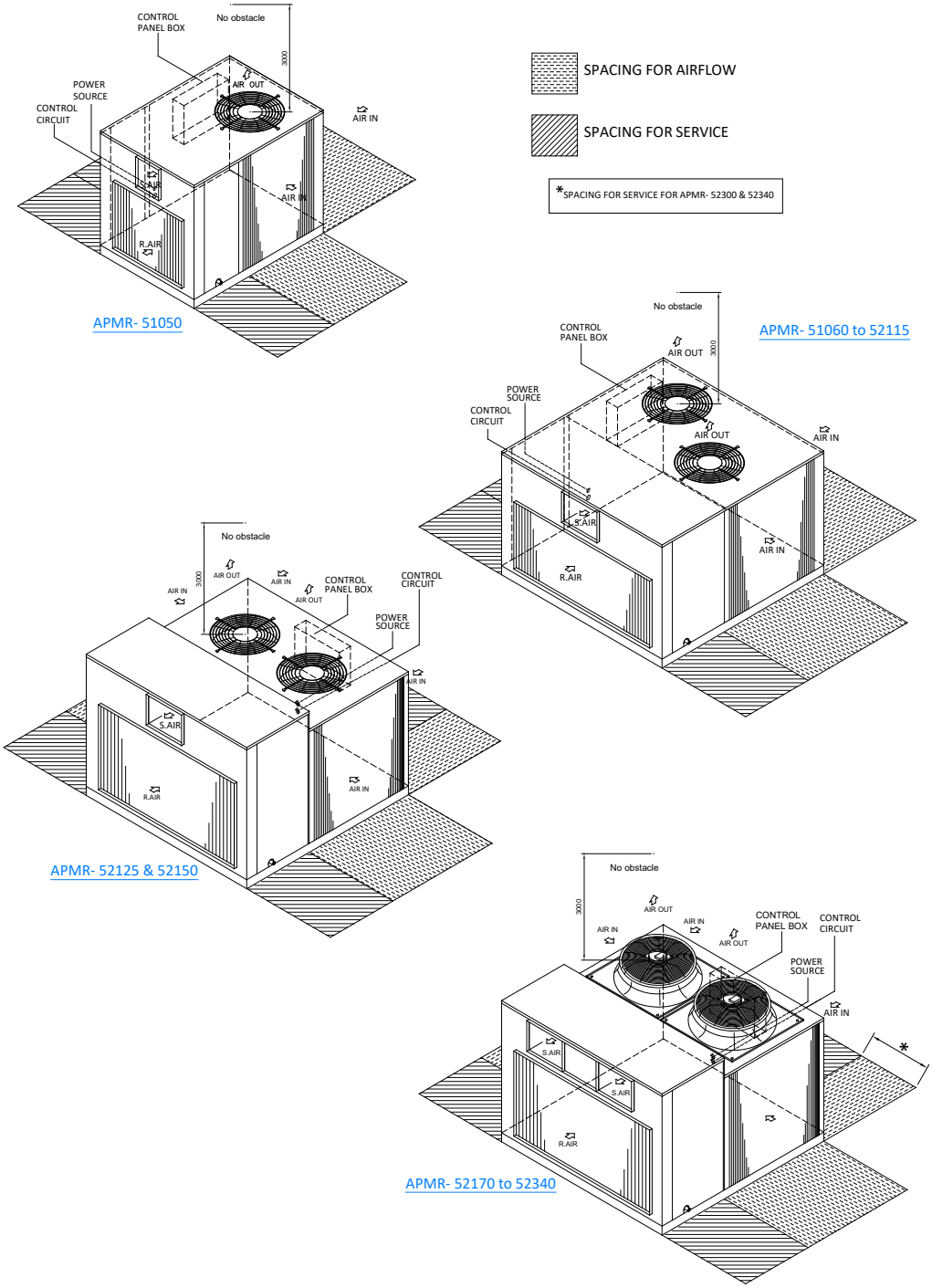
APMR-52560G

* SPACING FOR BOTH AIR FLOW & SERVICE

MULTIPLE UNIT INSTALLATION

Installation and Commissioning

- Install the unit in such a location which is flat and strong enough to support its weight.
- Provide a trap of over 2" (50mm) in the drain piping for water seal.
- All field wiring must comply with applicable local and national codes.
- Service spacing should be provided as shown in the figure. If any obstacles are around the unit, distributed air is short-circuited so that the unit stops frequently and access to the unit is difficult for inspection and aftersales services.



GUIDE SPECIFICATIONS

GENERAL
Packaged Air Conditioners shall be composed of compressor(s), condenser & evaporator coils with fans, refrigerant piping, electrical components & enclosing cabinet in one piece. These units shall be factory assembled, internally wired, fully refrigerant charged with R410A, tested under strict quality standards & are suitable for outdoor installation on rooftop or ground level with ducted system.

COMPRESSOR(S)
Compressor shall be hermetic scroll, refrigerant gas cooled furnished with internal overload protection device, crankcase heater, and shall be mounted on rubber isolators.

CONDENSER COIL(S)
Condenser coils shall be air cooled with integral sub cooler, constructed of special inner grooved seamless copper tubes 3/8" OD mechanically expanded into corrugated aluminum cross fins with maximum 16 fpi (1.6mm) spacing. These coils shall be tested against leakage by high air pressure air 715psig (4930kPa) under water, cleaned & dehydrated at the factory.

CONDENSER FAN(S) & MOTOR(S)
Condenser Fans shall be direct driven propeller type discharging air vertically upward, equipped with statically & dynamically balanced aluminum alloy blades, inherent corrosion resistant shaft & PVC coated steel wire fan guard. Condenser fan motor(s) shall be Totally Enclosed Air Over (TEAO), 4 pole or 6 pole with class-F insulation, minimum IP-54 protection & wired to unit control panel.

EVAPORATOR COIL
Evaporator coil shall be constructed of Hi-X copper tubes 3/8" OD mechanically bonded to aluminum (copper) corrugated fins with maximum 14 fpi (1.8mm) spacing. Coil consists of headers of seamless copper tubing, thermostatic expansion valve(s) & multi-circuited distributor(s). These coils shall be tested against leakage by high air pressure 450psig(3100kPa) under water, cleaned & dehydrated at the factory. Coil shall conform to AHRI-410.

EVAPORATOR FAN & MOTOR
Fans of evaporator shall be forward curved, double inlet double width (DIDW), centrifugal type, statically & dynamically balanced, mounted on a single heavy duty shaft with permanently lubricated bearings and belt driven by V belts with an adjustable variable pitch motor pulley. Motor shall be Totally Enclosed Fan Cooled (TEFC), 4 poles, class-F insulated, minimum IP55 protection & wired to unit control panel.

REFRIGERANT PIPING
The refrigerant circuit piping shall be fabricated from ACR grade copper piping, with 1 & 2 refrigeration circuits, each liquid line shall include filter drier and thermostatic expansion valve.

Suction line shall be insulated with ½" (12mm) wall thickness enclosed cell pipe insulation with maximum K factor 0.28 Btu.in /ft^2 .h.°F. (0.040 W/mK).

CASING
Casing shall be made of hot dip galvanized (zinc coated), phosphatized steel sheets which are then electrostatically polyester powder coated to provide an extremely tough, scratch resistance & excellent anti-corrosive protection. Casing shall pass1000 hours in 5% salt spray testing at 95°F (35°C) & 95% relative humidity as per ASTM B117. Evaporator section shall be sealed with vinyl gaskets & completely insulated faced with black glass tissue (BGT) heavy density, fire retardant, permanent odorless fiberglass insulation of minimum 1" (25 mm) thickness and 32 kg/m^3 density having maximum k factor 0.23 Btu.in/ft^2 h°f. (0.033 W / m °k). Unit casing shall be provided with access panels for easy service and maintenance of all unit parts.

FILTER SECTION
Flat Filter Section incorporating 1" (25mm) thick is provided as standard and 2" (50mm) thick filter having an average arrestance efficiency of 54% as per ASHRAE Standard 52.1 or equivalent can be provided as an option.

CONTROL PANEL
The panel shall be factory wired and confirm to IP-54 requirements. Control panel shall contain compressor and motor starting contactors, electronic control board for unit operation, compressor anti-recycle time delay, control on/off switch, control circuit breaker and power & control terminal blocks. High and Low pressure switches should be provided for protection.

NOTES

NOTES

اجهـــزة تكـيـيـف هـــواء
AIR CONDITIONING EQUIPMENT

CONTACT US

HEAD OFFICE

P.O Box: 6004, Sharjah,
United Arab Emirates

Tel: +971 6 514 3333
Fax: +971 6 514 3300

Email: sales@skmaircon.com
Email: info@skmaircon.com

Spare Parts Division
spareparts.skm@skmaircon.com

Service Center
aftersales.skm@skmaircon.com

For SKM Regional Offices & Distributors
visit: www.skmaircon.com

075/2018A
Supersedes # 075/2018