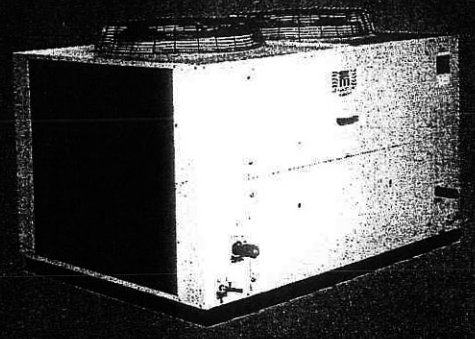
ACUH - Series
Air Cooled Condensing Units



AIR-CONDITIONING
EQUIPMENT

Refrigerant : R-22

Range : 6-29 TR

Bulletin # 012/2006
Supersedes Bulletin # 012/2005

SKM AIR-CONDITIONING EQUIPMENT

Contents

Legend

The following legends are used throughout this manual:

cfm ..... Cubic feet per minute
EER ..... Energy Efficiency Ratio
Hz ..... Hertz
kW ..... Kilowatts
kg ..... Kilogram
lbs ..... Pounds
l/s ..... Liters per second
MBH ..... BTUH x 1000
Ph ..... Phase
PI ..... Power Input for Compressor
SST ..... Saturated Suction Temp.
TR ..... Tons of refrigeration
V ..... Volts

Nomenclature

A C U H - 5 2 1 6 Y M

- A: Air Cooled
- C: Condensing Unit
- U: Hermetic Compressor
- H: Power Supply — 5: 50 Hz, 6: 60 Hz
- 5 2: No. of refrigeration circuits
- 1 6: Nominal Capacity (TR)
- Y: Power Supply Code — Y: 380-415V/3Ph/50Hz, P: 440V/3Ph/50Hz, R: 380V/3Ph/60Hz, E: 460-480V/3Ph/60Hz, T: 220-230V/3Ph/60Hz
- M: Factory Modification Code

Introduction

SKM ACUH Series Air Cooled Condensing Units are designed and manufactured especially for use in systems with indoor units connected to remote condensing units located out doors.

The feature of the ACUH Series is the extreme flexibility available with SKM in modifying and adapting these condensing units to meet almost any application requirement for a DX split system in this size range.

Flexibility in the operating range, adaptability for various environmental usages, customizing for specific applications are all unique features exclusive to SKM a he ACUH - Series. No other manufacture, can provide the wide variance of possibilities in this tonnage range of products.

Available in 14 basic sizes covering a range from 5.0 to 25.0 nominal TR (18-87 kW) in 50Hz and from 6.0 to 29.0 nominal TR (21-103 kW) in 60 Hz, the ACUH Series units can be designed to operate in a wide ambient range from 25°F (-4°C) to 125°F (52°C)

Most gulf designers prefer the standard operating design range of 60°F (15°C) to 125°F (52°C). With a few standard options available from SKM, as described, the units can be made to operate satisfactorily for lower design conditions. A choice of single or double refrigerant circuits makes the ACUH units additionally attractive.

Matching SKM ACUH Series Air Cooled Condensing Units with SKM Air Handling Units, single or double skinned or Comfort Air Conditioners, horizontal or vertical, results in a completely flexible system ideal for apartments, schools and other commercial buildings where the designer wishes to provide an economic standard solution but has stringent requirements to match that are not available from most major manufacturers.

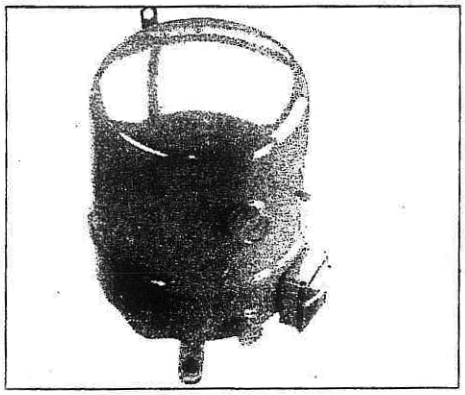
ACUH Series units are rated in accordance with ARI - 365 and ARI 210 - 240 standards.

SKM ACUH Series Condensing Units are ***Built in the Gulf ... for the world.***

SKM AIR-CONDITIONING EQUIPMENT

Component Features

Compressor



Compressors used in SKM ACUH Series Air Cooled Condensing Units are fully hermetic reciprocating type. The compressors incorporate a built-in muffler and are mounted on springs within a heavy guage steel housing to give a low noise level. All compressors are provided with built-in protection for long life quiet operation. A Klixon internal overload device for electrical protection and an internal pressure relief valve for safety are standard features.

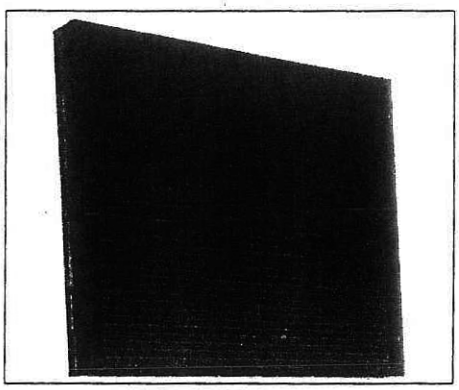
The compressors are provided with crankcase heaters as standard and are mounted on springs to minimize noise and vibration. The compressors conform to internationally recognized standards like NF, VDE, CSA & UL. Compressors are refrigerant gas cooled and designed for extremely heavy duty use. Built-in protection against liquid slugging makes use of a suction accumulator unnecessary.

The compressors are selected for their extremely high energy efficiency and heavy duty industrial/commercial usage with economy of operation.

Condenser

Condenser coils are air cooled and manufactured from seamless copper tubes mechanically bonded to wavy plate type aluminium fins to ensure optimum heat transfer. All coils are tested against leakage by air pressure of 450 psig (3100 KPa) under water.

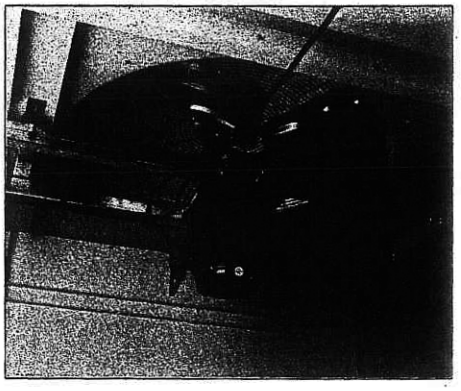
Standard coils are 3 or 4 rows deep, 12 fins per inch, 3/8" OD tubes and provided with a sub cooling circuit to increase the split system capacity without adding to operating costs.



Depending on the application, the following optional materials and coatings can be provided on request.

- Copper tubes / copper fins.
- Copper tubes / copper fins electro-tinned after manufacturing.
- Copper tubes with precoated aluminum fins.
- Copper tube / copper (aluminium) fins with special Bronze-Glow® coating.

Condenser Fans & Motor



Condenser fans are propeller type with aluminium alloy blades and are directly driven by electric motors. Motors are Totally Enclosed Air Over (TEAO) six pole with Class "F" insulation and minimum IP55 protection. The TEAO and Class "F" insulation features ensure long life and are unique to SKM.

The condenser fans are individually statically & dynamically balanced at the factory. Complete fan assembly is provided with suitable acrylic coated fan guard. Motors are factory wired to the unit control panel where the motor contactors are located to control the operation of these motors. Condenser fan motors can be provided with IP55 protection and/or with anti-condensation heaters built-in.

Refrigerant

Air Cooled Condensing units ACUH Series are designed and rated to be used with R-22. For other refrigerants please consult SKM.

Casing/Structure

The unit casing used in ACUH Series condensing units is made of zinc coated galvanized steel sheets conforming to JIS-G 3302 and ASTM A525 which is phosphatized and baked after an electrostatic powder coat of approximately 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 B117-95.

The entire assembly comes complete with lifting holes to ease rigging for installation. Access panels are provided for easy service and maintenance.

Refrigerant Piping

All internal piping provided in the ACUH Series are made from copper tubes.

The refrigeration piping in the units is fabricated from ACR grade copper piping. The piping connection comes as standard terminated with sealed and soldered copper pipe ends. Normal installation requires the cutting off of the ends using roller type tube cutters prior to connections being soldered and connected to the field supplied refrigerant pipe work

Refrigerant specialities including factory correctly sized expansion valves, filter-drier, solenoids, shut-off valves can be provided as a kit for field installation.

Electrical Hook-Up

Every SKM ACUH Series unit requires at most field installed fused disconnect switch or circuit breaker, fan interlocks and a temperature control thermostat.

Refer to the Typical Wiring Diagram shown in this catalog for a schematic representation of required field electric hookups.

AIR-CONDITIONING EQUIPMENT

Electrical Control Panel

The unit mounted IP-54 control panel enclosure, comprises all starting, operating and safety controls. A dead front panel cover screwed onto the enclosure prevents unauthorized personnel from tampering with controls. Safety and operating controls are arranged for easy accessibility. All wiring is sized as per NEC regulations, Articles 430 & 440. Wiring is fully ferruled enabling ease of proper identification. The control panel is factory wired for 24V/1PH/50-60Hz control power supply for which a suitably sized 24 volt fused low voltage transformer is provided as standard. The following are other **standard** components used in all ACUH Series air cooled condensing units.

- Individual compressor and condenser fan motor contactors.
- Individual condenser fan over current protection
- Anti-recycle timer to prevent rapid cycling and short cycling of compressors
- Low pressure safety switch and high pressure safety switch, one per compressor
- Control disconnect toggle switch
- Control circuit fuses
- Volt free contact or terminals for indoor fan motor starter interlock
- Power and control circuit terminal blocks.

Optional Features

Factory Installed

Microprocessor Based Control (MCP)
The controller consists of a display unit and relay boards. The display is mounted in a space / room and the relay card / s are mounted in the unit control panel. The sensor is directly connected to the relay board and is placed in the return air path.

Main features of the controls are :

- Built in anti recycle timer to prevent compressor short cycling.
- Auto lead-lag of the compressor.
- General alarm volt free contact is available for any remote indication use.
- Remote START/STOP of the unit is available through a volt free contact.

Following main indications are available on the controller display :

- Digital indication of return air / room temperature.
- High & low pressure alarm indications.

Low Ambient Operation Kit (LAO)
LAO option provides operation down to lower than normal Gulf winter ambients. Required only for special applications.

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

- For Copper Fins specify **FC**
- For Copper Fins electrotinned specify **FCT**
- For standard aluminium fins with Bronze-Glow® on entire condenser surface specify **FAB**
- For copper fins with Bronz-Glow® on entire condenser surface specify **FCB**
- For precoated aluminum fins specify **FAP**

Galvanized Frame (GFB)
Hot dip galvanized after manufacture, steel frame and base.

Condenser Coil Guard (CGP/CGG)
Coil wire mesh guard, in painted or galvanized finish for condensers. Recommended for ground level installations where coil needs to be protected against vandalism.

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

Hot Gas Bypass System (GBP)
With solenoid to enable operation of a large sized unit at very low loads, during low ambients due to application requirements.

Voltage Monitoring Module (VMM)
To prevent condensing unit operation in the event of phase burnout, phase reversal or under voltage on the incoming line voltage.

IP-55 Control Panel (ICP5)
The standard control panel replaced by an IP55 enclosure for extra protection against the elements.

Pressure Gauges (SDG)
Suction and discharge pressure indication of each refrigerant circuit. Gauges are mounted **outside** the Control Panel.

Condenser fan motors with built-in anti condensation heaters (CFM-ACH)
Where application so requires.

Isolated Condenser Fan Motors (CMS)
For elimination of extraneous noise and vibration from condenser fan motor, the motors are isolated from the frame.

Volt Free Contact (VFC)
An additional volt free contact for field installed liquid line solenoid valve. Please specify at enquiry/order option VFC along with option CRSP, if required.

Rotalock Valves on Compressors (RVC). For additional facilitation of maintenance of unit.

Circuit Breaker for Compressor (CBC)
For those electrical specifications which require additional protection.

Manual Reset Type Hi Pressure Switch (MHP). Can be used to replace the factory set nonadjustable, standard hi-pressure switch.

Modifications to meet DEWA Code (DVM). To meet DEWA regulations. This option is available for Dubai, U.A.E. only.

Special custom built units incorporating specially required features like condenser fan motors with anti-condensation resistance heaters embedded in condenser motors, explosion proof units incorporating open compressors driven by explosion proof motors etc. can be manufactured on request. Consult SKM with detailed requirements.

Options for Field Installations

Anti-vibration mounts (CAVM)
Recommended for roof mounted units or other locations in the vicinity of occupied spaces, where noise may be objectionable.

Liquid Line Controls (CRSP)
Comprises of correctly sized thermostatic expansion valve, suitable solenoid valve, filter drier, sight glass and shut-off valve per circuit.

Extra Shut Off Valve (CXFV)
To isolate filter drier on field pipe-work. Must be ordered, if required, with CRSP option.

Hi and Lo Pressure Gauges (CSDG)
Supplied loose for field installation.

AIR-CONDITIONING EQUIPMENT

Electrical Data

380-415V/3PH/50Hz (Tolerance 342-440V)

MODEL	Unit characteristic		Compressor				Condensor Fan Motor		
ACUH	MFA	MCA	QTY	MCC Each	RLA Each	LRA Each	QTY	FLA Each	LRA Each
5105	32	15.0	1	15.0	10.7	67	1	1.4	4.7
5106	32	16.2	1	15.5	11.1	80	1	1.4	4.7
5107	32	19.3	1	18.0	12.9	80	1	2.2	8.7
5108	40	24.0	1	22.0	15.7	90	1	3.4	14.4
5110	50	29.3	1	27.0	19.3	105	1	4.2	18.7
5210	40	27.0	2	15.0	10.7	67	2	1.4	4.7
5111	50	32.0	1	30.0	21.4	115	1	4.2	18.7
5211	50	28.7	2	15.5	11.1	80	2	1.4	4.7
5112	63	37.3	1	36.0	25.7	140	1	4.2	18.7
5213	50	34.3	2	18.0	12.9	80	2	2.2	8.7
5216	63	43.2	2	22.0	15.7	90	2	3.4	14.4
5220	80	52.8	2	27.0	19.3	105	2	4.2	18.7
5222	100	57.6	2	30.0	21.4	115	2	4.2	18.7
5225	100	67.3	2	36.0	25.7	140	2	4.2	18.7

380V/3PH/60Hz (Tolerance 342-418V)

MODEL	Unit characteristic		Compressor				Condensor Fan Motor		
ACUH	MFA	MCA	QTY	MCC Each	RLA Each	LRA Each	QTY	FLA Each	LRA Each
6106	32	18.0	1	17.5	12.5	72	1	1.7	5.6
6107	32	19.2	1	18.5	13.2	100	1	1.7	5.6
6108	40	24.3	1	22.5	16.1	102	1	3.2	12.2
6109	40	28.0	1	26.0	18.6	110	1	3.8	16.0
6111	50	33.2	1	30.0	21.4	150	1	5.4	27.5
6212	50	32.0	2	17.5	12.5	72	2	1.7	5.6
6113	63	42.1	1	40.0	28.6	165	1	5.4	27.5
6213	50	34.1	2	18.5	13.2	100	2	1.7	5.6
6115	80	47.5	1	46.0	32.9	165	1	5.4	27.5
6216	63	43.6	2	22.5	16.1	102	2	3.2	12.2
6218	80	50.4	2	26.0	18.6	110	2	3.8	16.0
6222	100	60.0	2	30.0	21.4	150	2	5.4	27.5
6226	125	76.1	2	40.0	28.6	165	2	5.4	27.5
6230	125	85.7	2	46.0	32.9	165	2	5.4	27.5

220V/3PH/60Hz (Tolerance 208-253V)

MODEL	Unit characteristic		Compressor				Condensor Fan Motor		
ACUH	MFA	MCA	QTY	MCC Each	RLA Each	LRA Each	QTY	FLA Each	LRA Each
6106	50	29.0	1	29.0	20.7	137	1	3.0	9.7
6107	50	31.7	1	31.0	22.1	135	1	3.0	9.7
6108	63	38.6	1	36.0	25.7	140	1	5.5	21.2
6109	80	46.1	1	43.0	30.7	157	1	6.7	27.7
6111	100	58.6	1	54.0	38.6	210	1	9.4	47.6
6212	80	53.0	2	29.0	20.7	137	2	3.0	9.7
6113	100	67.5	1	64.0	45.7	259	1	9.4	47.6
6213	80	56.8	2	31.0	22.1	135	2	3.0	9.7
6115	125	72.9	1	70.0	50.0	259	1	9.4	47.6
6216	100	69.9	2	36.0	25.7	140	2	5.5	21.2
6218	125	83.5	2	43.0	30.7	157	2	6.7	27.7
6222	160	106.6	2	54.0	38.6	210	2	9.4	47.6
6226	200	122.7	2	64.0	45.7	259	2	9.4	47.6
6230	200	132.3	2	70.0	50.0	259	2	9.4	47.6

Legend

Voltage imbalance between phases to be < 2%

MFA : Maximum Fuse Amperes
MCA : Minimum Circuit A mperes (for wire sizing)
MRC : Maximum Running Current corresponding to the cutout amperes of internal "KLIXON" motor protection at any operating conditions

RLA : Rated Load Amperes
LRA : Locked Rotor Amperes
FLA : Full Load Amperes

AIR-CONDITIONING EQUIPMENT

Electrical Data

460V/3PH/60Hz (Tolerance 414-506V)

MODEL	Unit characteristic		Compressor				Condensor Fan Motor		
ACUH	MFA	MCA	QTY	MCC Each	RLA Each	LRA Each	QTY	FLA Each	LRA Each
6106	32	15.0	1	15.0	10.7	67	1	1.6	6.6
6107	32	16.4	1	15.5	11.1	80	1	1.6	6.6
6108	32	20.0	1	18.0	12.9	80	1	2.9	14.4
6109	40	24.3	1	22.0	15 7	90	1	3.7	17.3
6111	50	30.1	1	27.0	19.3	105	1	5.0	31.5
6212	40	28.0	2	15.0	10.7	67	2	1.6	6.6
6113	50	32.8	1	30.0	21.4	115	1	5.0	31.5
6213	50	29.1	2	15.5	11.1	80	2	1.6	6.6
6115	63	38.1	1	36.0	25.7	140	1	5.0	31.5
6216	50	35.7	2	18.0	12.9	80	2	2.9	14.4
6218	63	43.8	2	22.0	15.7	90	2	3.7	17.3
6222	80	54.4	2	27.0	19.3	105	2	5.0	31.5
6226	100	59.2	2	30.0	21.4	115	2	5.0	31.5
6230	100	68.9	2	36.0	25.7	140	2	5.0	31.5

440V/3PH/50Hz (Tolerance 400-452V)

MODEL	Unit characteristic		Compressor				Condensor Fan Motor		
ACUH	MFA	MCA	QTY	MCC Each	RLA Each	LRA Each	QTY	FLA Each	LRA Each
5105	32	15.0	1	15.0	10.7	67	1	1.1	4.3
5106	32	15.9	1	15.5	11.1	80	1	1.1	4.3
5107	32	19.0	1	18.0	12.9	80	1	1.9	7.9
5108	40	23.3	1	22.0	15.7	90	1	2.7	13.1
5110	50	28.7	1	27.0	19.3	105	1	3.6	16.0
5210	40	27.0	2	15.0	10.7	67	2	1.1	4.3
5111	50	31.4	1	30.0	21.4	115	1	3.6	16.0
5211	40	28.1	2	15.5	11.1	80	2	1.1	4.3
5112	63	36.7	1	36.0	25.7	140	1	3.6	16.0
5213	50	33.7	2	18.0	12.9	80	2	1.9	7.9
5216	63	41.8	2	22.0	15.7	90	2	2.7	13.1
5220	80	51.6	2	27.0	19.3	105	2	3.6	16.0
5222	80	56.4	2	30.0	21.4	115	2	3.6	16.0
5225	100	66.1	2	36.0	25.7	140	2	3.6	16.0

Voltage imbalance between phases to be < 2%

Legend

MFA : Maximum Fuse Amperes
MCA : Minimum Circuit A mperes (for wire sizing)
MRC : Maximum Running Current corresponding to the cutout amperes of internal "KLIXON" motor protection at any operating conditions
RLA : Rated Load Amperes
LRA : Locked Rotor Amperes
FLA : Full Load. Amperes

AIR-CONDITIONING EQUIPMENT

Specifications - 50Hz

Model ACUH				5105	5106	5107	5108	5110	5210	5111
Cooling Capacity (1)			TR	5.1	5.5	6.4	7.6	9.8	10.2	11.3
			kW	18.0	19.2	22.6	26.7	34.4	36.0	39.7
Cooling Capacity (2)			TR	4.4	4.7	5.6	6.5	8.3	8.9	9.6
			kW	15.6	16.6	19.8	22.9	29.3	31.2	33.7
EER*			Btuh/W	10.8	10.4	10.6	10.7	10.1	10.8	9.8
Compressor	Type		-	Fully Hermatic Reciprocating						
	Code		-	MT-64	MT-72	MT-80	MT-100	MT-125	MT-64	MT-144
	Quantity		-	1	1	1	1	1	2	1
	Oil Charge per Compressor		US Gallon	0.5	0.5	0.5	1.1	1.1	0.5	0.9
			Liter	1.9	1.9	1.9	4.2	4.2	1.9	3.4
Condenser	Coil	Type	-	Air cooled copper tubes aluminium fins						
		Face Area	ft²	9.7	9.7	12.2	12.2	14.7	19.4	14.7
			m²	0.9	0.9	1.1	1.1	1.4	1.8	1.4
	Fan	Type	-	Propeller direct drive aluminium blade						
		Code / Qty	-	628/1	628/1	723/1	729/1	823/1	628/2	823/1
		Air Flow Rate	cfm	4530	4530	6720	7450	9140	9060	8790
			l/s	2138	2138	3171	3516	4313	4275	4148
	Motor	Type	-	Totally enclosed air over Class F insulation IP55						
		Power Input	kW	0.37	0.37	0.75	1.1	1.5	2 x 0.37	1.5
Refrigerant Operating Charge R-22 (3)			lbs	5.0	5.5	6.2	6.6	7.5	10.0	10.0
			kg	2.3	2.5	2.8	3.0	3.4	4.5	4.5
Number of Refrigerant Circuits			-	1	1	1	1	1	2	1
Capacity Steps			%	100-0	100-0	100-0	100-0	100-0	100-50-0	100-0
Machine Operating Weight (approximate)			lbs	458	466	541	625	706	854	733
			kg	208	212	246	284	321	388	333

Model ACUH				5211	5112	5213	5216	5220	5222	5225
Cooling Capacity (1)			TR	10.9	12.3	12.8	15.2	19.6	22.6	24.7
			kW	38.4	43.4	45.1	53.5	68.9	79.3	86.8
Cooling Capacity (2)			TR	9.5	10.5	11.1	13.0	16.6	19.1	21.0
			kW	33.3	37.0	39.2	45.9	58.6	67.3	73.9
EER*			Btuh/W	10.4	10.4	10.6	10.7	10.2	9.8	10.5
Compressor	Type		-	Fully Hermatic Reciprocating						
	Code		-	MT-72	MT-160	MT-80	MT-100	MT-125	MT-144	MT-160
	Quantity		-	2	1	2	2	2	2	2
	Oil Charge per Compressor		US Gallon	0.5	1.1	0.5	1.1	1.1	0.9	1.1
			Liter	1.9	4.2	1.9	4.2	4.2	3.4	4.2
Condenser	Coil	Type	-	Air cooled copper tubes aluminium fins						
		Face Area	ft²	19.4	17.2	24.4	24.4	29.4	29.4	34.4
			m²	1.8	1.6	2.3	2.3	2.7	2.7	3.2
	Fan	Type	-	Propeller direct drive aluminium blade						
		Code / Qty	-	628/2	823/1	723/2	729/2	823/2	823/2	823/2
		Air Flow Rate	cfm	9060	9130	13440	14900	18280	17580	18260
			l/s	4275	4308	6342	7031	8626	8296	8617
	Motor	Type	-	Totally enclosed air over Class F insulation IP55						
		Power Input	kW	2 x 0.37	1.5	2 x 0.75	2 x 1.1	2 x 1.5	2 x 1.5	2 x 1.5
Refrigerant Operating Charge R-22 (3)			lbs	11.0	11.5	12.4	13.2	15.0	20.0	23.0
			kg	5.0	5.2	5.6	6.0	6.8	9.1	10.5
Number of Refrigerant Circuits			-	2	1	2	2	2	2	2
Capacity Steps			%	100-50-0	100-0	100-50-0	100-50-0	100-50-0	100-50-0	100-50-0
Machine Operating Weight (approximate)			lbs	872	798	1017	1177	1332	1376	1484
			kg	396	363	462	535	605	625	675

1. Cooling Capacity and EER are at 95°F (35°C) condenser entering air temperature and 45°F (7.2°C) saturated suction temperature. (According to ARI 210-240 and 365 standards.)
2. Cooling Capacity at 115°F (46.1°C) condenser entering air temperature and 45°F (7.2°C) saturated suction temperature.
3. The approximate operating charge required for the unit when connected to a DX coil. Units are shipped with holding charge only.

AIR-CONDITIONING EQUIPMENT

Specifications - 60Hz

Model ACUH				6106	6107	6108	6109	6111	6212	6113
Cooling Capacity [1]			TR	6.1	6.5	7.6	8.9	11.5	12.1	13.2
			kW	21.3	22.7	26.7	31.5	40.5	42.6	46.3
Cooling Capacity [2]			TR	5.3	5.6	6.6	7.7	9.8	10.5	11.2
			kW	18.5	19.7	23.1	27.0	34.4	36.9	39.3
EER [1]			Btuh/W	10.5	10.0	10.1	10.2	9.5	10.5	9.2
Compressor	Type		-	Fully Hermatic Reciprocating						
	Code		-	MT-64	MT-72	MT-80	MT-100	MT-125	MT-64	MT-144
	Quantity		-	1	1	1	1	1	2	1
	Oil Charge per Compressor		US Gallon	0.5	0.5	0.5	1.1	1.1	0.5	0.9
			Liter	1.9	1.9	1.9	4.2	4.2	1.9	3.4
Condenser	Coil	Type	-	Air cooled copper tubes aluminium fins						
		Face Area	ft²	9.7	9.7	12.2	12.2	14.7	19.4	14.7
			m²	0.9	0.9	1.1	1.1	1.4	1.8	1.4
	Fan	Type	-	Propeller direct drive aluminium blade						
		Code / Qty	-	628/1	628/1	723/1	729/1	823/1	628/2	823/1
		Air Flow Rate	cfm	5500	5500	7970	8840	11120	11000	10700
			l/s	2595	2595	3741	4172	5248	5191	5049
	Motor	Type	-	Totally enclosed air over Class F insulation IP55						
		Power Input	kW	0.55	0.55	1.1	1.5	2.2	2 x 0.55	2.2
Refrigerant Operating Charge R-22 [3]			lbs	5.0	5.5	6.2	6.6	7.5	10.0	10.0
			kg	2.3	2.5	2.8	3.0	3.4	4.5	4.5
Number of Refrigerant Circuits			-	1	1	1	1	1	2	1
Capacity Steps			%	100-0	100-0	100-0	100-0	100-0	100-50-0	100-0
Machine Operating Weight (approximate)			lbs	458	466	541	625	706	854	733
			kg	208	212	246	284	321	388	333

Model ACUH				6213	6115	6216	6218	6222	6226	6230
Cooling Capacity [1]			TR	12.9	14.6	15.2	17.9	23.0	26.3	29.2
			kW	45.4	51.4	53.3	62.9	81.0	92.6	102.7
Cooling Capacity [2]			TR	11.2	12.4	13.2	15.3	19.6	22.3	24.8
			kW	39.3	43.7	46.3	53.9	68.8	78.5	87.4
EER [1]			Btuh/W	10.0	10.0	10.1	10.2	9.6	9.2	10.0
Compressor	Type		-	Fully Hermatic Reciprocating						
	Code		-	MT-72	MT-160	MT-80	MT-100	MT-125	MT-144	MT-160
	Quantity		-	2	1	2	2	2	2	2
	Oil Charge per Compressor		US Gallon	0.5	1.1	0.5	1.1	1.1	0.9	1.1
			Liter	1.9	4.2	1.9	4.2	4.2	3.4	4.2
Condenser	Coil	Type	-	Air cooled copper tubes aluminium fins						
		Face Area	ft²	19.4	17.2	24.4	24.4	29.4	29.4	34.4
			m²	1.8	1.6	2.3	2.3	2.7	2.7	3.2
	Fan	Type	-	Propeller direct drive aluminium blade						
		Code / Qty	-	628/2	823/1	723/2	729/2	823/2	823/2	823/2
		Air Flow Rate	cfm	11000	11110	15940	17680	22240	21400	22220
			l/s	5191	5243	7522	8343	10495	10099	10486
	Motor	Type	-	Totally enclosed air over Class F insulation IP55						
		Power Input	kW	2 x 0.55	2.2	2 x 1.1	2 x 1.5	2 x 2.2	2 x 2.2	2 x 2.2
Refrigerant Operating Charge R-22 [3]			lbs	11.0	11.5	12.4	13.2	15.0	20.0	23.0
			kg	5.0	5.2	5.6	6.0	6.8	9.1	10.5
Number of Refrigerant Circuits			-	2	1	2	2	2	2	2
Capacity Steps			%	100-50-0	100-0	100-50-0	100-50-0	100-50-0	100-50-0	100-50-0
Machine Operating Weight (approximate)			lbs	872	798	1017	1177	1332	1376	1484
			kg	396	363	462	535	605	625	675

1. Cooling Capacity and EER are at 95°F (35°C) condenser entering air temperature and 45°F (7.2°C) saturated suction temperature. (According to ARI 210-240 and 365 standards.)
2. Cooling Capacity at 115°F (46.1°C) condenser entering air temperature and 45°F (7.2°C) saturated suction temperature.
3. The approximate operating charge required for the unit when connected to a DX coil. Units are shipped with holding charge only.

AIR-CONDITIONING EQUIPMENT

Capacity Ratings - 50Hz

Model ACUH	SST		Condenser Entering Air Temperature											
			95°F (35°C)			105°F (40°C)			115°F (46°C)			125°F (52°C)		
	°F	°C	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI
			MBH	kW	kW	MBH	kW	kW	MBH	kW	kW	MBH	kW	kW
5105	35	1.7	50.0	14.7	4.8	46.7	13.7	5.1	43.3	12.7	5.4	40.0	11.7	5.6
	40	4.4	55.6	16.3	5.1	51.9	15.2	5.4	48.2	14.1	5.7	44.4	13.0	6.0
	45	7.2	61.4	18.0	5.3	57.3	16.8	5.6	53.2	15.6	6.0	49.1	14.4	6.3
	50	10.0	67.5	19.8	5.5	63.0	18.5	5.9	58.6	17.2	6.2	54.1	15.9	6.6
5106	35	1.7	54.0	15.8	5.4	50.4	14.8	5.7	46.9	13.8	6.1	43.3	12.7	6.5
	40	4.4	59.6	17.5	5.6	55.7	16.3	6.0	51.8	15.2	6.4	47.8	14.0	6.8
	45	7.2	65.5	19.2	5.9	61.1	17.9	6.4	56.8	16.6	6.8	52.4	15.4	7.2
	50	10.0	71.5	21.0	6.2	66.8	19.6	6.7	62.0	18.2	7.1	59.6	17.5	7.3
5107	35	1.7	63.2	18.5	5.9	59.0	17.3	6.3	55.0	16.1	6.7	50.9	14.9	7.2
	40	4.4	69.9	20.5	6.2	65.3	19.1	6.6	60.8	17.8	7.1	56.2	16.5	7.5
	45	7.2	77.0	22.6	6.5	71.9	21.1	7.0	66.9	19.6	7.5	61.8	18.1	7.9
	50	10.0	84.3	24.7	6.8	78.8	23.1	7.3	73.2	21.5	7.8	67.6	19.8	8.3
5108	35	1.7	74.6	21.9	6.9	69.0	20.2	7.3	63.6	18.7	7.7	58.2	17.0	8.1
	40	4.4	82.7	24.2	7.1	76.7	22.5	7.6	70.8	20.7	8.1	64.7	19.0	8.5
	45	7.2	91.3	26.7	7.4	84.7	24.8	7.9	78.3	22.9	8.5	71.6	21.0	9.0
	50	10.0	100.3	29.4	7.6	93.2	27.3	8.2	86.1	25.2	8.9	78.7	23.1	9.4
5110	35	1.7	96.3	28.2	9.2	89.2	26.1	9.7	82.1	24.1	10.2	75.0	22.0	10.7
	40	4.4	106.6	31.2	9.6	98.8	29.0	10.2	91.0	26.7	10.7	83.1	24.3	11.3
	45	7.2	117.5	34.4	10.1	108.7	31.9	10.7	99.9	29.3	11.3	91.1	26.7	11.9
	50	10.0	128.7	37.7	10.5	118.5	34.7	11.2	108.5	31.8	11.9	103.6	30.4	12.2
5210	35	1.7	100.1	29.3	9.7	93.3	27.4	10.2	86.7	25.4	10.7	79.9	23.4	11.2
	40	4.4	111.1	32.6	10.1	103.7	30.4	10.7	96.3	28.2	11.3	88.9	26.0	11.9
	45	7.2	122.8	36.0	10.6	114.6	33.6	11.2	106.5	31.2	11.9	98.3	28.8	12.6
	50	10.0	135.0	39.6	11.0	126.1	36.9	11.7	117.1	34.3	12.5	108.2	31.7	13.2
5111	35	1.7	111.3	32.6	11.0	102.4	30.0	11.5	93.5	27.4	11.9	83.8	24.6	11.9
	40	4.4	123.1	36.1	11.7	113.5	33.3	12.2	104.0	30.5	12.7	92.9	27.2	1.
	45	7.2	135.3	39.7	12.3	125.1	36.7	12.9	114.9	33.7	13.5	102.5	30.0	13.5
	50	10.0	147.9	43.4	13.0	137.1	40.2	13.6	126.2	37.0	14.3	112.6	33.0	14.1
5211	35	1.7	108.0	31.6	10.7	100.9	29.6	11.4	93.8	27.5	12.2	86.7	25.4	12.9
	40	4.4	119.2	34.9	11.3	111.4	32.6	12.1	103.5	30.3	12.9	95.6	28.0	13.7
	45	7.2	130.9	38.4	11.9	122.2	35.8	12.7	113.6	33.3	13.6	104.8	30.7	14.4
	50	10.0	143.1	41.9	12.5	133.5	39.1	13.4	123.9	36.3	14.2	119.1	34.9	14.7
5112	35	1.7	121.1	35.5	11.5	112.2	32.9	12.2	103.5	30.3	12.8	94.5	27.7	13.4
	40	4.4	134.2	39.3	12.1	124.4	36.5	12.8	114.7	33.6	13.4	104.8	30.7	14.2
	45	7.2	148.1	43.4	12.7	137.1	40.2	13.4	126.1	37.0	14.1	115.0	33.7	14.9
	50	10.0	162.4	47.6	13.2	149.7	43.9	14.0	137.1	40.2	14.9	125.0	36.6	15.7
5213	35	1.7	126.4	37.0	11.8	118.0	34.6	12.6	109.9	32.2	13.5	101.7	29.8	14.3
	40	4.4	139.8	41.0	12.4	130.7	38.3	13.3	121.6	35.6	14.2	112.5	33.0	15.1
	45	7.2	153.9	45.1	13.0	143.8	42.2	13.9	133.8	39.2	14.9	123.6	36.2	15.8
	50	10.0	168.6	49.4	13.6	157.5	46.2	14.6	146.4	42.9	15.6	135.3	39.7	16.6
5216	35	1.7	149.1	43.7	13.8	138.0	40.4	14.5	127.3	37.3	15.3	116.3	34.1	16.1
	40	4.4	165.4	48.5	14.3	153.3	44.9	15.2	141.6	41.5	16.1	129.5	37.9	17.0
	45	7.2	182.5	53.5	14.8	169.5	49.7	15.9	156.5	45.9	17.0	143.2	42.0	18.0
	50	10.0	200.6	58.8	15.2	186.4	54.6	16.5	172.2	50.5	17.7	157.4	46.1	18.9
5220	35	1.7	192.7	56.5	18.4	178.3	52.3	19.4	164.3	48.1	20.4	149.9	43.9	21.5
	40	4.4	213.2	62.5	19.2	197.6	57.9	20.4	182.0	53.3	21.5	166.1	48.7	22.6
	45	7.2	234.9	68.9	20.1	217.3	63.7	21.4	199.8	58.6	22.6	182.3	53.4	23.8
	50	10.0	257.3	75.4	21.1	237.1	69.5	22.4	217.0	63.6	23.8	207.3	60.8	24.5
5222	35	1.7	222.5	65.2	22.0	204.7	60.0	22.9	187.0	54.8	23.8	167.7	49.1	23.9
	40	4.4	246.2	72.1	23.3	227.0	66.5	24.3	207.9	60.9	25.3	185.8	54.5	25.3
	45	7.2	270.6	79.3	24.6	250.2	73.3	25.8	229.7	67.3	26.9	205.0	60.1	26.7
	50	10.0	295.8	86.7	26.0	274.1	80.3	27.3	252.4	74.0	28.5	225.3	66.0	28.1
5225	35	1.7	242.3	71.0	23.0	224.4	65.8	24.3	206.9	60.6	25.6	189.1	55.4	26.9
	40	4.4	268.4	78.7	24.1	248.8	72.9	25.5	229.5	67.3	26.9	209.6	61.4	28.3
	45	7.2	296.1	86.8	25.3	274.1	80.3	26.8	252.1	73.9	28.3	230.0	67.4	29.8
	50	10.0	324.8	95.2	26.5	299.4	87.8	28.1	274.1	80.3	29.7	250.0	73.3	31.5

Shaded values are at 120°F (49°C) condenser entering air temperature.

Computer print outs for matched ratings with SKM Air Handling Units are available

apacity Ratings - 60Hz

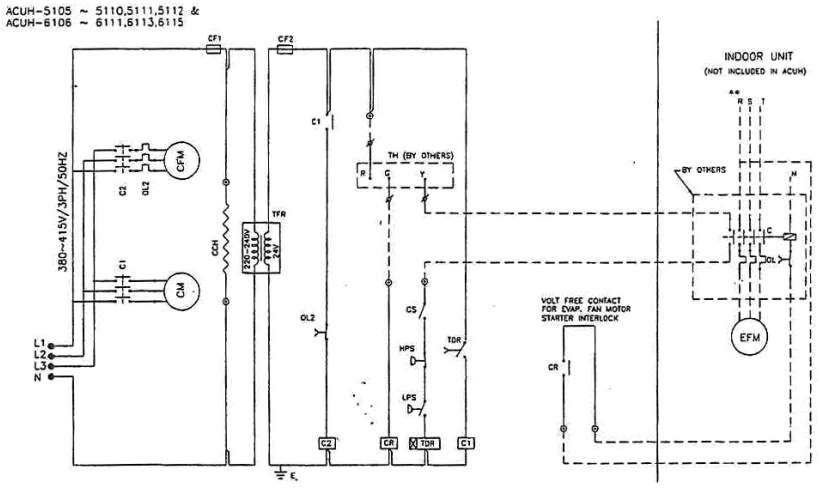
Model ACUH	SST		Condenser Entering Air Temperature											
			95°F (35°C)			105°F (40°C)			115°F (46°C)			125°F (52°C)		
	°F	°C	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI
			MBH	kW	kW	MBH	kW	kW	MBH	kW	kW	MBH	kW	kW
6106	35	1.7	59.4	17.4	5.9	55.4	16.2	6.2	51.4	15.1	6.5	47.4	13.9	6.8
	40	4.4	65.9	19.3	6.1	61.5	18.0	6.5	57.1	16.7	6.8	52.6	15.4	7.2
	45	7.2	72.7	21.3	6.4	67.9	19.9	6.8	63.0	18.5	7.2	58.1	17.0	7.6
	50	10.0	79.9	23.4	6.7	74.6	21.9	7.1	69.2	20.3	7.6	66.6	19.5	7.8
6107	35	1.7	64.0	18.8	6.5	59.8	17.5	6.9	55.6	16.3	7.4	51.3	15.0	7.8
	40	4.4	70.6	20.7	6.9	65.9	19.3	7.3	61.3	18.0	7.8	56.5	16.6	8.3
	45	7.2	77.5	22.7	7.2	72.3	21.2	7.7	67.1	19.7	8.2	64.5	18.9	8.5
	50	10.0	84.6	24.8	7.6	78.9	23.1	8.1	73.2	21.4	8.6	70.3	20.6	8.9
6108	35	1.7	74.9	21.9	7.2	69.9	20.5	7.7	65.1	19.1	8.2	60.2	17.6	8.7
	40	4.4	82.7	24.3	7.5	77.3	22.7	8.1	71.9	21.1	8.6	66.4	19.5	9.1
	45	7.2	91.0	26.7	7.9	85.0	24.9	8.5	79.0	23.1	9.1	72.9	21.4	9.6
	50	10.0	99.5	29.2	8.3	92.9	27.2	8.9	86.3	25.3	9.5	79.7	23.4	10.1
6109	35	1.7	87.9	25.8	8.4	81.4	23.9	8.8	75.0	22.0	9.3	68.5	20.1	9.8
	40	4.4	97.4	28.6	8.7	90.3	26.5	9.3	83.3	24.4	9.8	76.1	22.3	10.3
	45	7.2	107.4	31.5	9.0	99.7	29.2	9.7	92.0	27.0	10.3	83.9	24.6	10.9
	50	10.0	117.9	34.5	9.3	109.5	32.1	10.1	101.0	29.6	10.8	96.6	28.3	11.2
6111	35	1.7	113.7	33.3	11.2	105.2	30.8	11.8	96.9	28.4	12.4	88.3	25.9	13.0
	40	4.4	125.7	36.8	11.7	116.4	34.1	12.4	107.1	31.4	13.0	97.7	28.6	13.7
	45	7.2	138.2	40.5	12.3	127.8	37.5	13.0	117.4	34.4	13.7	112.2	32.9	14.1
	50	10.0	151.0	44.3	12.9	139.0	40.7	13.7	127.2	37.3	14.5	121.6	35.6	14.9
6212	35	1.7	118.8	34.8	11.7	110.7	32.5	12.3	102.8	30.1	12.9	94.8	27.8	13.6
	40	4.4	131.8	38.6	12.3	123.0	36.0	13.0	114.1	33.5	13.7	105.2	30.8	14.4
	45	7.2	145.5	42.6	12.8	135.7	39.8	13.6	126.0	36.9	14.4	116.3	34.1	15.3
	50	10.0	159.8	46.8	13.3	149.1	43.7	14.2	138.5	40.6	15.1	133.2	39.0	15.6
6113	35	1.7	130.0	38.1	13.3	119.6	35.1	13.8	109.2	32.0	14.3	99.1	29.0	14.4
	40	4.4	143.7	42.1	14.1	132.5	38.8	14.7	121.3	35.5	15.3	109.7	32.1	15.3
	45	7.2	157.9	46.3	14.9	145.9	42.8	15.6	133.9	39.3	16.3	120.9	35.4	16.1
	50	10.0	172.5	50.6	15.7	159.8	46.8	16.5	147.1	43.1	17.3	139.2	40.8	16.6
6213	35	1.7	128.1	37.5	13.0	119.6	35.1	13.9	111.2	32.6	14.8	102.6	30.1	15.6
	40	4.4	141.3	41.4	13.7	131.9	38.7	14.7	122.5	35.9	15.6	113.0	33.1	16.5
	45	7.2	155.0	45.4	14.4	144.6	42.4	15.5	134.2	39.3	16.5	129.0	37.8	17.0
	50	10.0	169.1	49.6	15.2	157.7	46.2	16.3	146.3	42.9	17.3	140.6	41.2	17.8
6115	35	1.7	143.7	42.1	13.9	133.1	39.0	14.7	122.6	35.9	15.5	112.0	32.8	16.2
	40	4.4	159.0	46.6	14.6	147.4	43.2	15.5	135.8	39.8	16.3	123.9	36.3	17.1
	45	7.2	175.2	51.4	15.4	162.1	47.5	16.2	149.1	43.7	17.1	135.8	39.8	18.1
	50	10.0	191.9	56.2	16.1	176.7	51.8	17.0	161.8	47.4	18.0	154.6	45.3	18.5
6216	35	1.7	149.7	43.9	14.3	139.8	41.0	15.3	130.2	38.1	16.3	120.4	35.3	17.4
	40	4.4	165.5	48.5	15.1	154.6	45.3	16.1	143.8	42.1	17.2	132.9	38.9	18.3
	45	7.2	181.9	53.3	15.8	169.9	49.8	17.0	157.9	46.3	18.1	145.9	42.8	19.2
	50	10.0	199.1	58.3	16.6	185.9	54.5	17.8	172.6	50.6	19.0	159.4	46.7	20.1
6218	35	1.7	175.9	51.5	16.7	162.8	47.7	17.6	150.1	44.0	18.6	136.9	40.1	19.5
	40	4.4	194.8	57.1	17.4	180.7	53.0	18.5	166.7	48.9	19.6	152.1	44.6	20.7
	45	7.2	214.8	62.9	18.1	199.4	58.4	19.4	184.0	53.9	20.7	167.9	49.2	21.9
	50	10.0	235.7	69.1	18.6	219.0	64.2	20.2	202.0	59.2	21.7	193.3	56.6	22.4
6222	35	1.7	227.4	66.7	22.3	210.5	61.7	23.5	193.7	56.8	24.7	176.5	51.7	26.0
	40	4.4	251.4	73.7	23.4	232.8	68.2	24.7	214.3	62.8	26.1	195.3	57.2	27.4
	45	7.2	276.4	81.0	24.5	255.6	74.9	26.0	234.8	68.8	27.4	224.4	65.8	28.2
	50	10.0	302.0	88.5	25.7	278.0	81.5	27.3	254.4	74.6	28.9	243.2	71.3	29.8
6226	35	1.7	260.0	76.2	26.6	239.2	70.1	27.6	218.4	64.0	28.6	198.2	58.1	28.9
	40	4.4	287.5	84.3	28.2	265.0	77.7	29.4	242.6	71.1	30.6	219.3	64.3	30.6
	45	7.2	315.8	92.6	29.8	291.8	85.5	31.2	267.8	78.5	32.5	241.7	70.8	32.3
	50	10.0	345.0	101.1	31.5	319.5	93.7	33.0	294.1	86.2	34.5	278.5	81.6	33.2
6230	35	1.7	287.4	84.2	27.9	266.2	78.0	29.4	245.3	71.9	30.9	223.9	65.6	32.5
	40	4.4	318.1	93.2	29.3	294.8	86.4	30.9	271.7	79.6	32.5	247.9	72.6	34.3
	45	7.2	350.4	102.7	30.7	324.3	95.0	32.5	298.1	87.4	34.2	271.6	79.6	36.1
	50	10.0	383.7	112.5	32.2	353.4	103.6	34.1	323.6	94.8	36.0	309.1	90.6	37.1

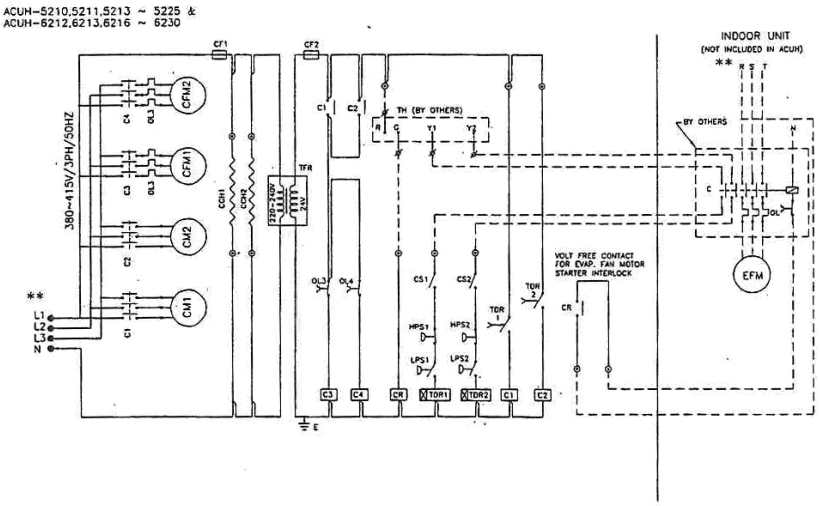
Shaded values are at 120°F (49°C) condenser entering air temperature.

Computer print outs for matched ratings with SKM Air Handling Units are available

AIR-CONDITIONING EQUIPMENT

Typical Wiring Diagram





** Provide over-current, short circuit, earth fault protection & disconnect means as required by local and national electric code.

Legend	
C ..... Contactor	HPS ..... High Pressure Switch
CCH ..... Crank Case Heater	LPS ..... Low Pressure Switch
CF ..... Control Fuse	OL ..... Overload Relay
CFM ..... Condenser Fan Motor	TDR ..... Time Delay Relay
CM ..... Compressor Motor	TFR ..... Transformer
CR ..... Control Relay	TH ..... Thermostat
CS ..... Control Switch	- - - ..... Field Wiring & Field Supplied Devices
EFM ..... Evaporator Fan Motor	

Selection Procedure

The following information should be determined:

1. Required total capacity
   = 112.6 MBH (33.0 kW)
2. Saturated suction temperature
   = 45°F (7.2°C)
3. Condenser entering air temp.
   = 115°F (46°C)
4. Power Supply (V/PH/Hz)
   = 380/3/50

Enter 50Hz capacity ratings table at 115°F (46°C) condenser entering air temperature and select model ACUH 5111 having a cooling capacity of 114.4 MBH (33.5 kW) at 45°F (7.2°C) saturated suction temperature, compressor motor power input is 13.4 kW. For further details refer to physical data and specification sheets.

As an alternative model ACUH-5211 (two circuit) can be selected.

Capacity ratings are based on sea level operation. Above sea level, apply the following correction factors.

Actual capacity (at level) = sea level cap. x altitude correction factor (from Table below)

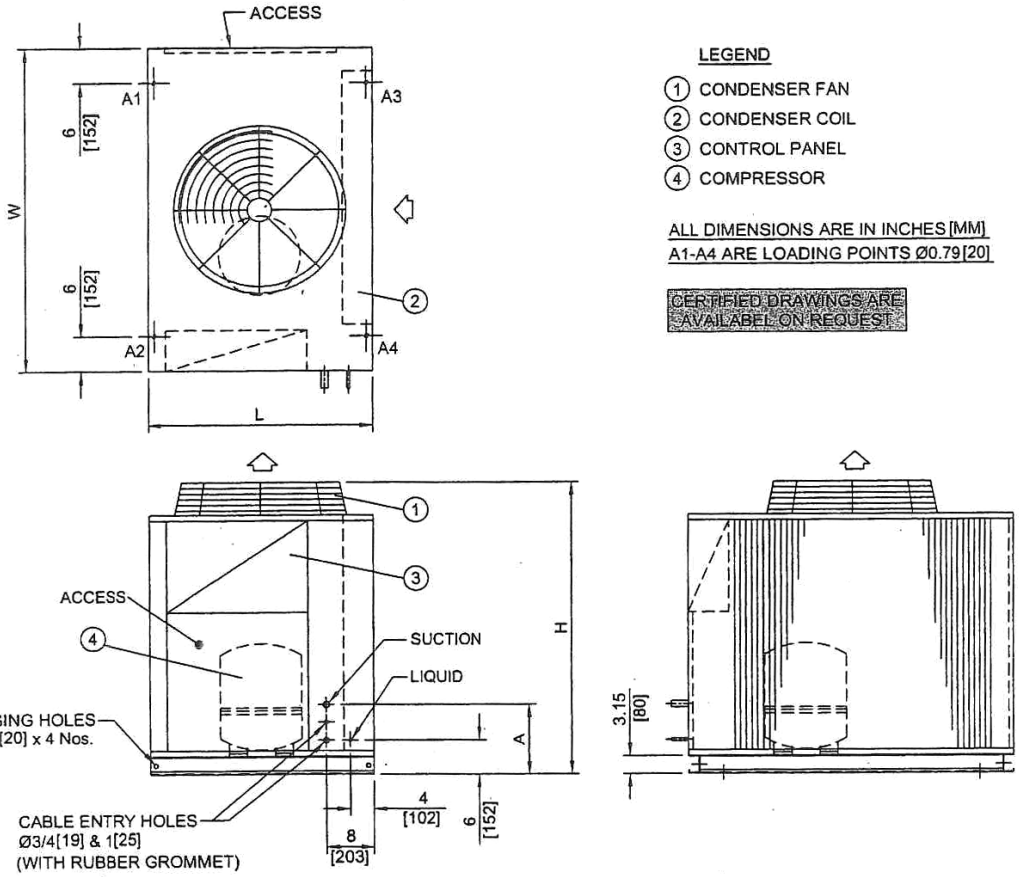
Altitude Correction Factors

The unit ratings are based on sea level. Above sea level apply the following correction factors.

Altitude		Capacity	Power
Feet	Meters	Multiplier	Multiplier
0	0	1.00	1.00
2000	610	0.99	1.01
4000	1219	0.98	1.02
6000	1829	0.97	1.03
8000	2438	0.96	1.04
10000	3048	0.95	1.05

AIR-CONDITIONING EQUIPMENT

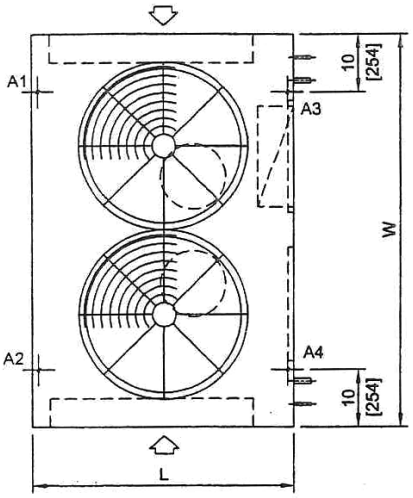
Dimensional Data



MODEL ACUH-	L	W	H	A	CONNECTION SIZE, Ø		LOAD AT EACH POINT Lbs (Kg)				TOTAL WEIGHT
					SUCTION	LIQUID	A1	A2	A3	A4	
5105 6106	34 (864)	45 (1143)	50.95 (1294)	13.5 (343)	7/8 (22)	1/2 (13)	95 (43)	101 (46)	121 (55)	106 (48)	423 (192)
5106 6107	34 (864)	45 (1143)	50.95 (1294)	13.5 (343)	7/8 (22)	1/2 (13)	95 (43)	101 (46)	121 (55)	108 (49)	425 (193)
5107 6108	38 (965)	56 (1422)	50.95 (1294)	13.5 (343)	1 1/8 (28)	1/2 (13)	110 (50)	112 (51)	128 (58)	143 (65)	493 (224)
5108 6109	38 (965)	56 (1422)	50.95 (1294)	12.2 (310)	1 1/8 (28)	5/8 (16)	125 (57)	128 (58)	158 (72)	158 (72)	569 (259)
5110 6111	42 (1067)	56 (1422)	58.95 (1497)	12.2 (310)	1 1/8 (28)	5/8 (16)	134 (61)	154 (70)	172 (78)	189 (86)	649 (295)
5111 6113	42 (1067)	56 (1422)	58.95 (1497)	19 (483)	1 1/8 (28)	5/8 (16)	141 (64)	161 (73)	189 (86)	209 (95)	700 (318)
5112 6115	42 (1067)	62 (1575)	58.95 (1497)	12.2 (310)	1 1/8 (28)	5/8 (16)	147 (67)	169 (77)	207 (94)	229 (104)	752 (342)

AIR-CONDITIONING EQUIPMENT

Dimensional Data

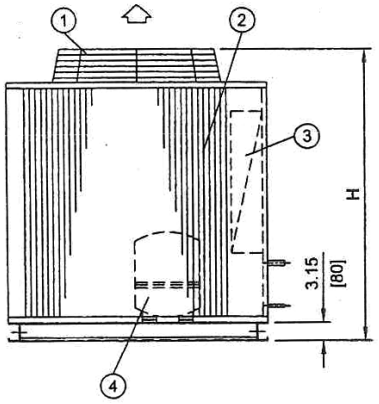


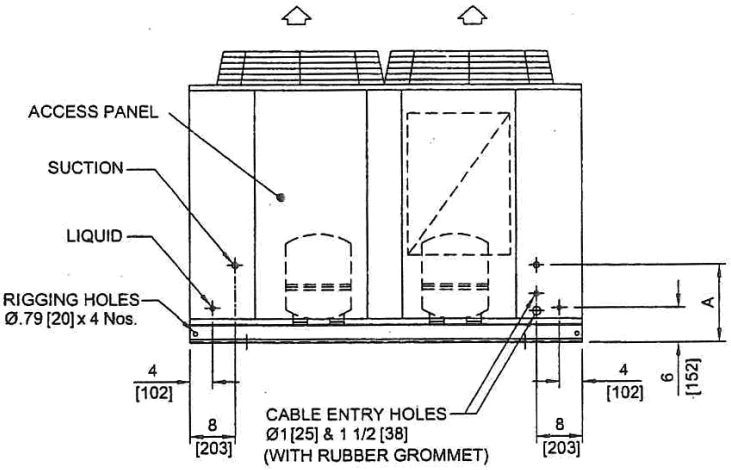
LEGEND

1. CONDENSER FAN
2. CONDENSER COIL
3. CONTROL PANEL
4. COMPRESSOR

ALL DIMENSIONS ARE IN INCHES [MM]
A1-A4 ARE LOADING POINTS Ø0.79 [20]

CERTIFIED DRAWINGS ARE AVAILABEL ON REQUEST





MODEL ACUH	L	W	H	A	CONNECTION SIZE Ø		LOAD AT EACH POINT Lbs. (Kg)				TOTAL WEIGHT
					SUCTION	LIQUID	A1	A2	A3	A4	
5210 6212	45 (1143)	68 (1727)	50.95 (1294)	13.5 (343)	2x 7/8 2x (22)	2x 1/2 2x (13)	165 (75)	163 (74)	231 (105)	209 (95)	768 (349)
5211 6213	45 (1143)	68 (1727)	50.95 (1294)	13.5 (343)	2x 7/8 2x (22)	2x 1/2 2x (13)	165 (75)	165 (75)	233 (106)	211 (96)	774 (352)
5213 6216	56 (1422)	76 (1930)	50.95 (1294)	13.5 (343)	2x 1 1/8 2x (28)	2x 1/2 2x (13)	191 (87)	189 (86)	266 (121)	242 (110)	888 (404)
5216 6218	56 (1422)	76 (1930)	50.95 (1294)	12.2 (310)	2x 1 1/8 2x (28)	2x 5/8 2x (16)	218 (99)	218 (99)	316 (144)	291 (132)	1043 (474)
5220 6222	56 (1422)	84 (2134)	58.95 (1497)	12.2 (310)	2x 1 1/8 2x (28)	2x 5/8 2x (16)	268 (122)	266 (121)	339 (154)	312 (142)	1185 (539)
5222 6226	56 (1422)	84 (2134)	58.95 (1497)	19 (483)	2x 1 1/8 2x (28)	2x 5/8 2x (16)	291 (132)	291 (132)	367 (167)	339 (154)	1288 (585)
5225 6230	62 (1575)	84 (2134)	58.95 (1497)	12.2 (310)	2x 1 1/8 2x (28)	2x 5/8 2x (16)	293 (133)	291 (132)	400 (182)	372 (169)	1356 (616)

AIR-CONDITIONING EQUIPMENT

Guide Specifications

General

Condensing units shall be composed of compressor(s), condenser coil(s) with fan(s), refrigerant piping, electrical components & enclosing cabinet in one piece. These units shall be factory assembled, internally wired, fully refrigerant charged with R22, tested under strict quality standards & are suitable for use in systems with indoor units connected to remote condensing units located out doors.

Units should be capable to operate from 60°F (15°C) to 125°F (52°C) ambient temperature, and shall be selected in accordance with project requirements and installed as per Installation, Operation & Maintenance Manual.

Compressor(s)

Compressor(s) shall be hermetic reciprocating, refrigerant gas cooled, furnished with internal overload protection device, internal pressure relief valve, crankcase heater & shall be mounted on spring vibration isolators. These compressors conform to internationally recognized standards like NF, VDE, CSA & UL.

Coil(s)

Coils shall be air cooled with integral sub cooler, constructed of seamless copper tubes 3/8" OD mechanically expanded into wavy plate type aluminum fins with maximum 12 fpi (2.1mm) spacing. These coils shall be tested against leakage by air pressure of 450 psig (3100 Kpa) under water, cleaned & dehydrated at the factory. Coil shall conform to ARI-410.

Fan(s) & Motor(s)

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), 6 poles with class-F insulation, minimum IP55 protection & wired to unit control panel.

Refrigerant Piping

Refrigerant circuit piping shall be fabricated from ACR grade copper including shut-off valve, filter drier & thermostatic expansion valve. The piping connections shall be terminated with sealed & soldered copper pipe ends, which give much simplicity & ease to the installation.

Casing

Casing shall be made of hot dip galvanized, phosphatized steel sheets which are then electrostatically polyester powder coated to provide an extremely tough, scratch resistance & excellent anti-corrosive protection. Casing shall pass 1000 hours in 5% salt spray testing at 95°F (35°C) & 95% relative humidity as per ASTM B117-95. Unit casing shall be provided with access panels for easy service & maintenance of all unit parts.

Control Panel

The panel shall be factory wired in accordance with NEC 430 & 440, and conforms to IP54 requirements. Control Panel shall contain individual electrical components' contactors, overload relays, transformer, anti-recycling time delay relay, control circuit disconnect switch, power & control circuit terminal blocks & High / low pressure switch. (Please refer to page 4 for detailed information of Control Panel).

SHARJAH SALES HEAD OFFICE
P.O. BOX 6004
Sharjah, UNITED ARAB EMIRATES
Tel : +971 6 5347347
Fax: +971 6 5349292
e-mail : sales@skm.ae
website : www.skm.ae

DUBAI SALES OFFICE
P.O. BOX 98822
Dubai, UNITED ARAB EMIRATES
Tel : +971 4 2940900
Fax : +971 4 2940029
email : dubaisales@skm.ae

ABU DHABI SALES OFFICE
P.O. Box 27788
Abu Dhabi, UNITED ARAB EMIRATES
Tel : +971 2 6445223
Fax: +971 2 6445145
email : abudhabisales@skm.ae

AL KHOBAR SALES OFFICE
P.O. Box 1189
Al Khobar, SAUDI ARABIA
Tel: +96 63 8598666
Fax: +96 63 8598520
email : alkhobarsales@skm.ae

BAGHDAD OFFICE:
SKM AIR CONDITIONING EQUIPMENT
KARMA A/C TRADING CO.
Karada Dakhil - Dist. 901
St 14/House No. 40 (St. Raphael Hospital St.)
Baghdad - IRAQ
Tel : +964 1 7173132/7173130/7190726
Fax : +964 1 7170712
Thuraya : +88 216 67 74 17788
email : baghdadsales@skm.ae

CAIRO SALES OFFICE
9, Mosadak Street
3rd Floor, Dokki, Giza, EGYPT
Tel : +20 2 7619617/7621974
Fax : +20 2 7621973
email : egyptsales@skm.ae

DOHA SALES OFFICE
P.O. Box 648
Doha, QATAR
Tel : +97 4 4662013
Fax : +97 4 4661470
email : dohasales@skm.ae

JEDDAH SALES OFFICE
P.O. Box 13218
Jeddah, SAUDI ARABIA
Tel : +96 62 6691848/6672850
Fax : +96 62 6608316
email : jeddahsales@skm.ae

JORDAN SALES OFFICE
Ideal A/C Systems
P.O. Box 425357
Amman 11140 JORDAN
Tel : +962 6 5538640
Fax : +962 6 5538641
email : sales@skm.ae

KUWAIT SALES OFFICE
P.O. Box 28926
Safat, PC 13150, KUWAIT
Tel : +96 5 2445726/7/8
Fax : +96 5 2446131
email : kuwaitsales@skm.ae

PAKISTAN DISTRIBUTOR
HACE (PRIVATE) LTD
Suite No 4, Amber Castle, 21 A,
Block 6, P.E.C.H.S. Shahrah-E-Faisal
Karachi - 75400, Pakistan
Tel : +9 221 455 4225/455 3585
Fax : +9 221 455-3774
email : karachisales@skm.ae

RAS AL-KHAIMAH SALES OFFICE
P.O.Box No. 9730
Ras Al-Khaimah, UNITED ARAB EMIRATES
Tel : +971 7 2279004
Fax : +971 7 2279005
email : sales@skm.ae

RIYADH SALES OFFICE
P.O. Box 85123
Riyadh, SAUDI ARABIA
Tel : +96 61 4794499
Fax : +96 61 4785354
email : riyadhsales@skm.ae

SKM

AIR-CONDITIONING EQUIPMENT

Built in the Gulf... for the world