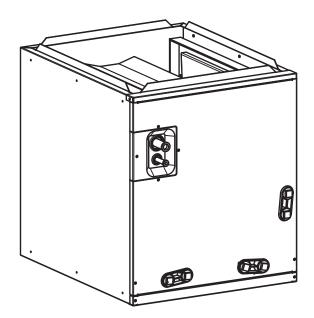


INSTALLATION INSTRUCTIONS

Multi-Position Cased Coils For Cooling Only

FEATURING R-410A OR R-22 REFRIGERANT





RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION



These instructions are intended as an aid to qualified licensed service personnel for proper installation, adjustment and operation of this unit. Read these instructions thoroughly before attempting installation or operation. Failure to follow these instructions may result in improper installation, adjustment, service or maintenance and possibly resulting in fire, electrical shock, property damage, personal injury or death.





DO NOT DESTROY THIS MANUAL

Please read carefully and keep in a safe place for future reference by a serviceman.

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1.0 SAFETY

When you see the symbols below on labels or in manual, be alert to the potential or immediate hazards of personal injury, property and/or product damage. It is the owner's or installer's responsibility to comply with all safety instructions and information accompanying these symbols.



WARNING

This is a safety alert symbol indicating a potential hazardous situation, which could result in personal injury, property and/or product damage or death.



CAUTION

This is a safety alert symbol indicating a potential hazardous situation, which could result in moderate personal injury, and/or property and product damage.



WARNING

Disconnect all power to the unit before starting any service and maintenance. Failure to do so could cause severe electrical shock resulting in personal injury or death.



WARNING

Installation or servicing of this unit can be hazardous due to parts, components and system pressure. Qualified and proper trained service personnel should perform installation and repair. Failure to do so could cause severe electrical shock resulting in personal injure or death.



WARNING

These coils are not approved for oil furnace applications

2.0 GENERAL

The unit can be positioned for bottom return air in the upflow position, left and right return in the horizontal position, top return in downflow position.

2.1 CODES & REGULATIONS

This product is designed and manufactured to comply with national codes. Installation in accordance with such codes and/or prevailing local codes/regulations is the responsibility of the installer. The manufacturer assumes no responsibility for equipment installed in violation of any codes or regulations.

The United States Environmental Protection Agency(EPA) has issued various regulations regarding the introduction and disposal of refrigerants. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. Should you have any questions please contact the local office of the EPA.

2.2 INSPECTION UPON UNIT ARRIVAL

As soon as unit is received, it should be inspected and noted for possible shipping damage during transportation. It is carrier's responsibility to cover the cost of shipping damage. Manufacturer or distributor will not accept a claim from contractors for any transportation damage.

2.3 CLEARANCES

Following clearances should be provided during installation a.Maintenance and service access, including coil cleaning and coil assembly removal

b.Refrigerant piping and connections

c.Condensate drain line

VAPOR LINE CONNECTION COPPER (SWEAT) LIQUID LINE CONNECTION COPPER (SWEAT) AUXILIARY DRAIN CONNECTION 3/4" NPT FEMALE PIPE THREAD PRIMARY DRAIN CONNECTION 3/4" NPT FEMALE PIPE THREAD

Fig.1 CASED DIMENSIONS AND COMPONENT LOCATION

DIMENSIONAL DATA

	Dimensions inch [mm]				UNIT	
MODEL SIZE	UNIT HEIGHT "H"IN. [mm]	UNIT WIDTH "W" IN.[mm]	SUPPLY DUCT "A" IN.[mm]	"W1" IN.[mm]	WEIGHT/SHIPPING WEIGHT (LBS.[kg])	
M4CXC024BA1CAAA	20"[508]	14-1/2"[368]	13"[330]	13-1/2"[343]	42/48[19.2]/[21.8]	
M4CXC025BB1CAAA	20"[508]	17-1/2"[445]	16"[407]	16-1/2"[419]	46/52[21]/[23.6]	
M4CXC028BA1CAAA	26"[660]	14-1/2"[368]	13"[330]	13-1/2"[343]	56/63[25.5]/[28.5]	
M4CXC030BB1CAAA	26"[660]	17-1/2"[445]	16"[407]	16-1/2"[419]	57/66[26]/[30]	
M4CXC036BC1CAAA	26"[660]	21"[533]	19-1/2"[495]	20"[508]	62/70.5[28]/[32]	
M4CXC035BA1CAAA	20"[508]	14-1/2"[368]	13"[330]	13-1/2"[343]	47/54[21.4]/[24.5]	
M4CXC035BB1CAAA	20"[508]	17-1/2"[445]	16"[407]	16-1/2"[419]	48.5/56[22]/[25.4]	
M4CXC035BC1CAAA	20"[508]	21"[533]	19-1/2"[495]	20"[508]	51/58[23.1]/[26.4]	
M4CXC042BB1CAAA	26"[660]	17-1/2"[445]	16"[407]	16-1/2"[419]	64/70.5[29]/[32]	
M4CXC048BC1CAAA	26"[660]	21"[533]	19-1/2"[495]	20"[508]	68/74[31]/[33.5]	
M4CXC060BD1CAAA	26"[660]	24-1/2"[622]	23"[584]	23-1/2"[597]	71.5/79.5[32.5]/[36]	
M4CXC049BC1CAAA	30"[762]	21"[533]	19-1/2"[495]	20"[508]	83/88[37.8]/[40]	
M4CXC061BD1CAAA	30"[762]	24-1/2"[622]	23"[584]	23-1/2"[597]	87/92[39.4]/[41.8]	

3.0 INSTALLATION INSTRUCTIONS

3.1 PARTS

Contact your distributor for authorized replacement parts.

3.2 PRE-INSTALLATION INSTRUCTIONS

Carefully read all instructions for installation prior to installing product. Make sure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally. Make sure everything needed to install the product is on hand before starting.

3.3 INSTALLATION AND TRAP CONNECTION

See Fig .2 for coil installation and drain connection for vertical and horizontal applications.

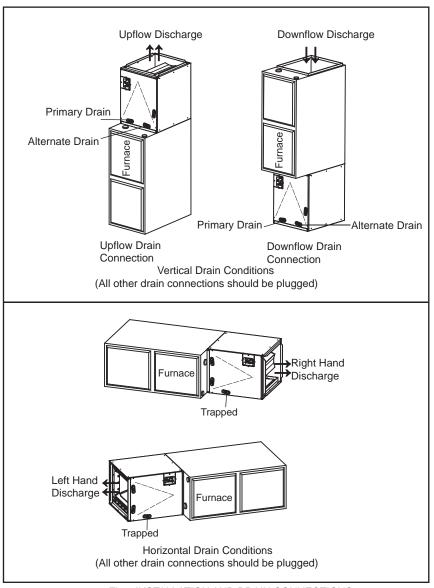


Fig.2 INSTALLATION AND DRAIN CONNECTIONS

4.0 DRAIN APPLICATION

4.1 CONDENSATE DRAIN PIPING

Consult local codes for special requirements.

To provide extra protection from water damage, install an additional drain pan, provided by installer under the entire unit with a separate drain line. Manufacturer will not be responsible for any damages due to the failure to follow these requirements.

4.2 PLASTIC DRAIN PAN INSTALLATION



WARNING

Do not use the coil pan shipped with the unit on OIL furnaces or any application where the temperature of the drain pan may exceed 275°F. A field fabricated metal drain pan can also be used for these type of applications. Fallure to follow this warning may result in property damage and/or personal injury.

The coil drain pan has a primary and an optional secondary drain with 3/4" NPT female connections; use either PVC or metal pipe and hand tighten to a torque of approximately 37 in-lbs. to prevent damage to the drain pan connection. An insertion depth between .355 to .485 inches (3-5 turns) should be expected at this torque setting.

Use male 3/4" NPT threaded fitting for outside connection and make sure the drain holes are not blocked.

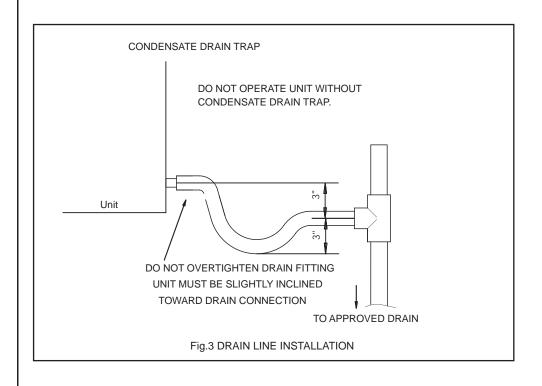
Insulation may be needed for drain line to prevent sweating.

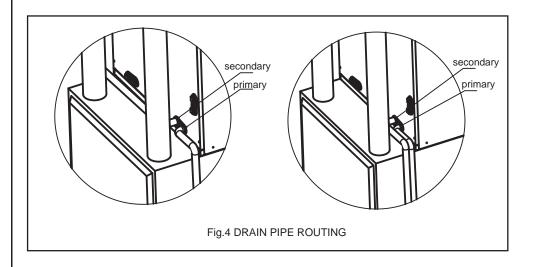
Drain pan has two drain connections on each side to provide flexibility of connection and drainage. Make sure pan has proper pitch and plugged if second connection is not used.

If the secondary drain line is required, run the line separately from the primary drain and end it where it can be easily seen.

NOTE: Water coming from this line means the coil primary drain is plugged and needs clearing.

Install a trap in the drain line below the bottom of the drain pan. If using a copper drain line, solder a short piece of pipe to the connector before installing a drain fitting. DO NOT over torque the 3/4" copper connector to the plastic drain connection. Use a wet rag or heatsink material on the short piece to protect plastic drain pan, complete the drain line installation (Fig.3). Use (Fig.4) as a template for typical drain pipe routing. This figure shows how to avoid interference with vent piping.





5.0 REFRIGERANT CONNECTIONS

To prevent refrigerant leak, use proper tools to ensure clean, burr-free cut.

Use brazing shield when welding close to the cabinet surface and wet rag to protect rubber grommet.

Brazing alloy should be at least 5% silver content.

5.1 FLOWRATOR PISTON CHANGE

In most applications, there is no need to change the piston (orifice). However, in some mix-matched applications, change of piston size is required. If the application needs to change the piston, change the piston in the distributor of indoor coil before installing the coil. See Table 1 for orifice size.

To change the piston, use following steps:

- 1.Remove cover panel.
- 2.Use Two wrenches.
 - Loosen one turn to release pressure. (High pressure gas)
- 3. After releasing pressure.
 - Loosen and carefully pull two fittings to expose piston.
- 4. Remove and replace piston shown in Fig. 5.
- 5.Carefully reassemble assembly. (Hand tighten)
 - Be sure to use teflon tape on thread for a complete seal.
- 6.Hand tighten and make sure assembly is properly connected and then torque to 10-30 ft/lb.

NOTE: Be careful not to bend tubing

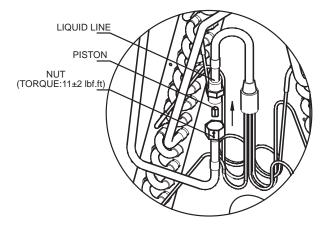


Fig.5 FLOWRATOR PISTON CHANGE

Table 1 FLOWRATOR PISTON SIZE CHART

Condensing Unit	A-Coil	If Piston Replace Required	Optional Replace Piston/TXV With	SEER	Preinstalled Piston
M4AC3018A1000AA	M4CXC024BA1CAAA		C050 MAYTXVACAC1818AA		C056
M4AC3024A1000AA	M4CXC024BA1CAAA	NO NO	MAYTXVACAC1818AA	13 13	C056
M4AC3030A1000AA	M4CXC025BB1CAAA	C061	MAYTXVACHI 1830AA	13	C056
M4AC3036A1000AA	M4CXC035BB1CAAA	NO NO	MAYTXVACHP3642AA	13	C067
M4AC3042A1000AA	M4CXC048BC1CAAA		MAYTXVACHP3642AA	13	C078
		C075	MAYTXVACHP4848AA		
M4AC3048A1000AA	M4CXC048BC1CAAA	NO		13	C078
M4AC3060A1000AA	M4CXC061BD1CAAA	C088	MAYTXVACHP6060AA	13	C074
M4AC3018B1000AA	M4CXC024BA1CAAA	C050	MAYTXVACAC1818AA	13	C056
	M4CXC025BB1CAAA	C050	MAYTXVACAC1818AA	13	C056
M4AC3024B1000AA	M4CXC024BA1CAAA	NO	MAYTXVACHP1830AA	13	C056
	M4CXC025BB1CAAA	NO	MAYTXVACHP1830AA	13	C056
M4AC3030B1000AA	M4CXC024BA1CAAA	C060	MAYTXVACHP1830AA	13	C056
	M4CXC025BB1CAAA	C060	MAYTXVACHP1830AA	13	C056
	M4CXC035BA1CAAA	NO	MAYTXVACHP3642AA	13	C069
M4AC3036B1000AA	M4CXC035BB1CAAA	NO	MAYTXVACHP3642AA	13	C067
	M4CXC035BC1CAAA	NO	MAYTXVACHP3642AA	13	C067
	M4CXC042BB1CAAA	NO	MAYTXVACHP3642AA	13	C074
M4AC3042B1000AA	M4CXC048BC1CAAA	C074	MAYTXVACHP3642AA	13	C078
	M4CXC060BD1CAAA	C074	MAYTXVACHP3642AA	13	C078
	M4CXC042BB1CAAA	C078	MAYTXVACHP4848AA	13	C074
M4AC3048B1000AA	M4CXC048BC1CAAA	NO	MAYTXVACHP4848AA		C078
	M4CXC060BD1CAAA	NO	MAYTXVACHP4848AA	13	C078
M4AC3060B1000AA	M4CXC049BC1CAAA	NO	MAYTXVACHP6060AA	13	C088
W4AC3000B1000AA	M4CXC061BD1CAAA	NO	MAYTXVACHP6060AA	13	C088
Condensing Unit	A-Coil	If Piston Replace Required	Optional Replace Piston/TXV With	SEER	Preinstalled Piston
M4AC4018B1000AA	M4CXC028BA1CAAA	C050	MAYTXVACAC1818AA	14	C064
WAAC40 TOD TOUGAA	M4CXC030BB1CAAA	C050	MAYTXVACAC1818AA	14	C063
144404044400044	M4CXC028BA1CAAA	C057	MAYTXVACHP1830AA	14	C064
M4AC4024A1000AA	M4CXC030BB1CAAA	C057	MAYTXVACHP1830AA	14	C063
	M4CXC028BA1CAAA	NO	MAYTXVACHP1830AA	14	C064
M4AC4030B1000AA	M4CXC030BB1CAAA	NO	MAYTXVACHP1830AA	14	C063
	M4CXC028BA1CAAA	MAYTXVACHP3642AA	C068	14	C064
M4AC4036A1000AA	M4CXC030BB1CAAA	MAYTXVACHP3642AA	C068	14	C063
	M4CXC036BC1CAAA	MAYTXVACHP3642AA	C068	14	C068
M4AC4042A1000AA	M4CXC049BC1CAAA	MAYTXVACHI 3042AA		14	C088
WITH COTOTEN TOUCHA			C088	14	C088
M4AC4048A1000AA	M4CXC049BC1CAAA	MAYTXVACHP4848AA MAYTXVACHP4848AA	C088	14	C088
M4AC4060A1000AA	M4CXC061BD1CAAA	MAYTXVACHP4646AA	C088	14	C088
IVITACTUUUA TUUUAA	M4CXC061BD1CAAA	IVIATTAVACHEOUOUAA	C098	14	C000

Table 2. AIRFLOW PERFORMANCE

PRESSURE DROP CHARACTERISTICS FOR COOLING AND HEAT PUMP COILS								
PRESSURE DROP (INCHES OF WATER)								
MODEL	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
M4CXC024BA1CAAA	373	549	706	821	925	1018	1109	1190
M4CXC025BB1CAAA	391	617	785	925	1050	1163	1272	1367
M4CXC035BA1CAAA	320	506	634	741	850	933	1019	1095
M4CXC035BB1CAAA	350	544	710	840	958	1059	1158	1248
M4CXC035BC1CAAA	411	637	813	964	1095	1220	1336	1441
M4CXC042BB1CAAA	420	655	823	968	1095	1211	1321	1426
M4CXC048BC1CAAA	492	759	956	1110	1274	1428	1551	1678
M4CXC060BD1CAAA	544	837	1075	1276	1473	1634	1797	1933
M4CXC028BA1CAAA	373	541	677	789	895	984	1068	1148
M4CXC030BB1CAAA	412	625	789	926	1054	1166	1275	1375
M4CXC036BC1CAAA	438	679	874	1035	1183	1320	1455	1568
M4CXC049BC1CAAA	495	751	962	1130	1297	1432	1564	1681
M4CXC061BD1CAAA	526	838	1097	1305	1499	1663	1814	1952

Base Limited Warranty

Single Phase R-410A Outdoor Units, Single Phase R-22 Outdoor Units, Air Handlers, Furnaces, Packaged Units, Cased Coils, and Specific Terms for Commercial Applications.

Subject to the terms and conditions of this limited warranty, Ingersoll Rand ("Company") extends a limited warranty against manufacturing defects for the product(s) identified in **Table 1** attached hereto ("Products") that are installed in a residential/multi-family application (personal, family or household purposes) under normal use and maintenance in the United States and Canada.

In order to maximize the available benefits under this limited warranty, the Purchaser (as defined below) should read it in its entirety. All repairs of Product parts covered under this limited warranty must be made with authorized service parts and by a licensed HVAC service provider. Additionally, commercial applications are treated differently under this limited warranty as stated in **Table 1** attached hereto. For purposes of this limited warranty, "commercial applications" shall mean any application other than for personal, family, or household use.

TERM: The limited warranty period for Products is as stated in **Table 1** attached hereto. If the Purchaser properly registers the Products, the limited warranty period shall be extended as stated in **Table 1** attached hereto. Regardless of registration, the Commencement Date for a limited warranty period shall be the date that the original installation is complete and all Product start-up procedures have been properly completed and verified by an installer's invoice. If the installation and start-up date cannot be verified by the installer is invoice, the Commencement Date shall be sixty (60) days after the factory manufacture date which is verified by the Product serial number. Where a Product is installed in a newly constructed home, the Commencement Date is the date the Purchaser purchased the residence from the builder. Proof of Product purchase, installation, and/or closing date of the residence may be required to confirm the Commencement Date.

The installation of Product replacement parts under this limited warranty shall not extend the original warranty period. The warranty period for any Product part replaced under this limited warranty is the applicable warranty period remaining under the original Product warranty.

WHO IS COVERED: This limited warranty is provided only to the original owner and his or her spouse ("Purchaser') of the residence where the Products are originally installed. This warranty is not transferable except according to terms stated on the applicable website identified below under Registration Requirements. Company has the right to request any and all proof of Product purchase or installation and/or closing date of the residence.

WHAT COMPANY WILL DO: Company may request proof of Product purchase and/or installation in order to provide Product parts under this limited warranty. As Company's only responsibility and Purchaser's only remedy under this limited warranty, Company will furnish a replacement part to the licensed HVAC service provider, without charge for the part only, to replace any Product part that fails due to a manufacturing defect under normal use and maintenance. The Purchaser must pay for any and all shipping and handling charges and other costs of warranty service for the replacement part. If a Product part is not available, Company will, at its option, provide a free suitable substitute part or provide a credit in the amount of the then factory selling price for a new suitable substitute part to be used by the Purchaser towards the retail purchase price of a new Company product. Any new Product purchase shall be at Purchaser's sole cost and expense including, but not limited to, all shipping, removal, and installation costs and expenses.

REGISTRATION REQUIREMENTS: All Products must be properly registered online by the Purchaser within sixty (60) days after the Commencement Date to receive the registered limited warranty terms. To register online, go to:

http://www.ameristarac.com

and click "Begin Online Registration." If a Purchaser does not register within this stated time period, the base limited warranty terms shall apply.

ELIGIBILITY REQUIREMENTS: The following items are required in order for the Products to be covered under this limited warranty:

- The Products must be in the same location where they were originally installed.
- The Products must be properly installed, operated, and maintained by a licensed HVAC service provider in accordance with the Product specifications or installation, operation, and maintenance instructions provided by Company with each Product. Failure to conform to such specifications and/or instructions shall void this limited warranty. Company may request written documentation showing the proper preventative maintenance.
- All Product parts replaced by Company under this limited warranty must be given to the servicing provider for return to Company.
- Air handlers, air conditioners, heat pumps, cased or uncased coils, stand-alone furnaces, and packaged units must be part of an Air Conditioning, Heating, and Refrigeration Institute rated and matched system or a specification in a Company provided bulletin or otherwise approved in writing by a Company authorized representative.

EXCLUSIONS: The following are not covered by this limited warranty:

- · Labor costs including, but not limited to, costs for diagnostic calls or the removal and reinstallation of Products and/or Product parts.
- Shipping and freight expenses required to ship Product replacement parts.
- Failures, defects, or damage (including, but not limited to, any loss of data or property) caused by (1) any third party product, service, or system connected or used in conjunction with the Products; (2) any use that is not designed or intended for the Products; (3) modification, alteration, abuse, misuse, negligence, or accident; (4) improper storage, installation, maintenance, or operation including, but not limited to, operation of electrical equipment at voltages other than the range specified on the Product nameplate; (5) any use in violation of written instructions or specifications provided by Company; (6) any acts of God including, but not limited to, fire, water, storms, lightning, or earthquakes; or any theft or riots; or (7) a corrosive atmosphere or contact with corrosive materials such as, but not limited to, chlorine, fluorine, salt, sulfur, recycled waste water, urine, fertilizers, rust, or other damaging substances or chemicals.
- Products purchased direct including, but not limited to, Internet or auction purchases and purchases made on an uninstalled basis.
- Cabinets or cabinet pieces that do not affect product performance, air filters, refrigerant, refrigerant line sets, belts, wiring, fuses, surge protection devices, non-factory installed driers, and Product accessories.
- Increased utility usage costs.

REFRIGERANT POLICY: Beginning on January 1, 2010, R-22 refrigerant will no longer be used as a manufacturer-installed refrigerant as required by federal regulation. Any and all expenses or costs associated with replacing Product parts that are not R-410A compatible will not be covered by the terms and conditions of this limited warranty. In addition, all Products containing R-410A refrigerant include a liquid line filter drier which must be replaced when a compressor replacement is necessary. A suction line filter drier must be added for compressors defined as burnouts. Failure to comply with such filter drier requirements or the use of contaminated or alternate refrigerant or any non-approved refrigerant system additives including, but not limited to, dyes, will void this limited warranty.

ADDITIONAL TERMS:

THIS LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE APPLICABLE PRODUCT WARRANTY. COMPANY DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OBLIGATION OR LIABILITY IN CONNECTION WITH THE PRODUCTS.

NOTWITHSTANDING ANYTHING IN THIS LIMITED WARRANTY TO THE CONTRARY, COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL AND/OR PUNITIVE DAMAGES, WHETHER BASED ON CONTRACT, WARRANTY, TORT (INCLUDING, BUT NOT LIMITED TO, STRICT LIABILITY OR NEGLIGENCE), PATENT INFRINGEMENT, OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. COMPANY'S MAXIMUM LIABILITY HEREUNDER IS LIMITED TO THE ORIGINAL PURCHASE PRICE OF THE PRODUCTS.

No action arising out of any claimed breach of this limited warranty may be brought by a Purchaser more than one (1) year after the cause of action has arisen. This limited warranty gives you specific legal rights, and you may also have other rights as otherwise permitted by law. If this Product is considered a consumer product, please be advised that some local laws do not allow limitations on incidental or consequential damages, how long a warranty lasts based on registration, or how long an implied warranty lasts, so that the above limitations may not fully apply. Refer to your local laws for your specific rights under this limited warranty. If you have any questions regarding this limited warranty, please contact your original installation dealer, or any participating dealer, should your original installation dealer no longer be available.

TABLE 1: Warranty Time Periods

COVERAGE TERMS FOR RESIDENTIAL APPLICATIONS: Pursuant to the Ingersoll Rand ("Company") limited warranty terms and conditions, the following Products are covered for the base time periods as stated below ("Base Limited Warranty Period"). If registered, the Base Limited Warranty Periods for certain Products will be extended as stated below ("Registered Limited Warranty Period").

FURNACES:

M801P, M951P

Base Limited Warranty Period: Parts – five (5) years, Heat Exchanger – twenty (20) years. Registered Limited Warranty Period: Parts – ten (10) years, Heat Exchanger: twenty (20) years.

AIR HANDLERS:

M4AH3, M4AH4

Base Limited Warranty Period: Indoor Coil and Parts – five (5) years.

Registered Limited Warranty Period: Indoor Coil and Parts – ten (10) years.

ELECTRIC HEATERS, installed in M4A3/4 AIR HANDLERS:

MAYHTR1A

Base Limited Warranty Period: Parts – five (5) years.

Registered Limited Warranty Period: Parts – ten (10) years.

SINGLE PHASE R410 OUTDOOR UNITS:

M4AC3, M4HP3, M4AC4, M4HP4

Base Limited Warranty Period: Compressor, Outdoor Coil, Parts: five (5) years.

Registered Limited Warranty Period: Compressor, Outdoor Coil, Parts – ten (10) years.

SINGLE PHASE R22 OUTDOOR UNITS:

M2AC3, M2HP3

Base Limited Warranty Period: Compressor, Outdoor Coil, Parts - one (1) year.

Registered Limited Warranty Period: Compressor, Outdoor Coil, Parts – five (5) years.

CASED COILS:

M4CXC

Base Limited Warranty Period: Coil, Parts –five (5) years.

Registered Limited Warranty Period: Coil and Parts – ten (10) years.

PACKAGED UNITS:

M4PH3, M4PG3

Base Limited Warranty Period: Compressor, Coil, Parts – five (5) years, Heat Exchanger – ten (10) years. Registered Limited Warranty Period: Compressor, Coil, Parts – ten (10) years, Heat Exchanger – ten (10) years.

SPECIFIC TERMS FOR COMMERCIAL APPLICATIONS

Base Limited Warranty Period Applies

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V1.0版

1. 增加保修卡的内容。(20130605)

V1.1版

1. Table 1更改型号。(20130624)