

## SF – 090

## Important Safety Notice

DATE: November 11, 2021  
TO: All Service and Parts Managers  
SUBJECT: Field modifications required for certain evaporator coil drain pans paired with condensing furnaces in upflow applications

The scope of this bulletin is any coil from the model families in Table 1 (no “A” in the fifth digit) with a serial number with the first four digits between 1901 and 2101 and evaporator coil drain pans that were sold by Goodman as service parts from approximately January 2019 through June 2021 regardless of coil serial number.

If you are aware of any of these coils within this serial number range, either uninstalled in inventory, or already installed in the field, please read this bulletin thoroughly and take the recommended actions.

Modifications may be required for model families of 3/8” evaporator coils listed in **Table 1** below, whether these coils are uninstalled and in inventory, or already installed in system applications in the field. If the 5th character of the model number is an “A,” this indicates a 7mm coil and is unaffected. No action is required and falls outside the scope of this bulletin.

Table 1
CAPE
CAPF
CAPT
CAUF
CXTQ

### **Instructions for coils already installed in the field**

While many installations will require modifications, some specific installations require no further action. Below is a list of exemptions. If any of these exemptions are observed for a given installation, no further action is required for that specific installation.

#### *Exemptions:*

1. Any coil installed in a downflow application.
2. Any coil matched with a non-condensing (80% AFUE) gas furnace (any brand).
3. A metal reinforcement is observed below the drain pan of the coil. This indicates modifications have already been performed on the specific coil.
4. The matched furnace is a Daikin, Goodman, or Amana brand Ultra Low NOx gas furnace.

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5. The matched furnace is a Daikin, Goodman, or Amana brand condensing furnace with a constant volume (variable speed ECM) from the model number families listed below in **Table 2**.
6. The matched furnace has a Blower Guard Kit. This indicates that modifications have already been performed on the specific system.

Daikin	Goodman	Amana	Whirlpool
	GMVC95	AMVC95	WGFM295
DM96MC	GMVM96	AMVM96	WGFM296
DM96VC	GMVC96	AMVC96	
DM97MC	GMVM97	AMVM97	

If an installed coil from the models in **Table 1** is within the serial number range of 1901 to 2101 and does not meet any of these exemptions, further action is required.

For the remaining installations that require further action, the action required will either be the installation of a Blower Guard Kit or Drain Pan with Metal Reinforcement Kit. The specific system details dictate which of these actions is appropriate for a given installation. Please review the following sections in detail to understand which action is appropriate for a given system installation.

## Blower Guard Kit

We anticipate most of the remaining in-scope installations (not exempted as defined above) will require the installation of a Blower Guard Kit. If the installation does not meet any of the previously defined exemptions, and meets BOTH the following two requirements, the required action is the installation of a Blower Guard Kit.

*Installations that require Blower Guard Kit (if not exempted as defined above):*

1. System with the in-scope coil/drain pan service part matched to Air Conditioner outdoor unit (not Heat Pump)
2. Daikin, Goodman, Amana, or GMC brand gas furnace in upflow applications matched with the in-scope coil/drain pan service part as listed in **Table 3** below

If you identify installations that meet these criteria, the appropriate Blower Guard Kit is denoted in **Table 3** for a given furnace model family. For more information, please refer to the installation instructions for the appropriate kit.

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Table 3					
Furnace model number families				Blower Guard Kit	
Daikin	Goodman	Amana	GMC	Part #	IO Manual
DK92SS	GKS9	AKSS92		BGK-1S	IO-7013
DM92SS	GMSS92	AMSS92		BGK-1S	IO-7013
	GMSS96	AMSS96	VMSS96	BGK-1S	IO-7013
DM92SE	GME92	AMES92		BGK-1S	IO-7013
DM96SE	GME96	AMES96	VMES96	BGK-1S	IO-7013
DM96VE	GMEC96	AMEC96		BGK-2S	IO-7012
DM96HS	GMH95	AMH95		BGK-HYB	IO-7014
DM96HE	GME95	AMEH96		BGK-HYB	IO-7014

**NOTE – if drain pan deformation is observed when installing the Blower Guard Kit, then installation of the Drain Pan with Metal Reinforcement Kit is required. Refer to the section of this bulletin on the Drain Pan with Metal Reinforcement Kit for more information.**

*More information on the Blower Guard Kit:*

The Blower Guard Kit consists of a pressure switch, control board, and wiring harness. The pressure switch is mounted on the back of the blower housing to confirm airflow during a call for heat. The control board is mounted next to the furnace main control board. Installing this kit will require the removal of the blower assembly from the furnace and the reinstallation of the blower assembly after the kit’s pressure switch has been installed. Wiring changes and an additional wiring diagram will also be a part of this installation.

The Blower Guard Kit is not an auto-reset device. If the Blower Guard trips for any reason it must be manually reset and the reason for the trip must be identified. Failure to sense blower operation will likely be due to a sticking or failed pressure switch, board failure, wiring issue or motor failure.

Before a heating call, the Blower Guard PCB will be in an idle state with the green LED being constant. When a call for heat is received at the furnace and the gas valve is energized, the Blower Guard PCB enters “Start Up”, and the green LED will begin to flash at a 1 second interval. The Blower Guard PCB must sense a closed pressure switch and motor current within 50 seconds after the gas valve is energized. If both are detected, then the Blower Guard PCB will enter the “Monitor Circulator Blower Running” state and the green LED will flash faster. If the motor current, closed pressure switch, or both are not sensed at 50 seconds after the gas valve is energized, the Blower Guard PCB will enter the permanent “Lockout” state, which is represented by a solid red LED and requires a service call.

During the start-up sequence of the furnace, if the gas valve signal is interrupted within 50 seconds, the Blower Guard PCB will enter the “Extended Relay On” state, represented by a solid orange/amber LED. In some conditions, the gas valve interruption could cause the Blower Guard PCB to enter a 10-minute lockout represented by a slow flashing orange/amber LED. Please note that during the 10-minute lockout of the Blower Guard PCB, the furnace control board may lockout

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the furnace for up to 1-hour. If Extended Relay State occurs repeatedly, the Blower Guard PCB may enter permanent lockout represented by a solid red LED.

During the start-up sequence of the furnace, if the Blower Guard pressure switch is closed but motor current is not sensed, the Blower Guard PCB will enter the “Lockout Pressure Switch” state, indicated by a fast-flashing red LED. In this state, the Blower Guard PCB will remain locked out until service of the pressure switch.

The Blower Guard Kit includes two copies of the label (shown below) which are to be affixed to the coil AND furnace. This label is intended to provide notification to any technician servicing this system in the future that the system has been retrofitted for a recall, and further action is necessary if the furnace is to be replaced.

**ATTENTION:** This system has been retrofitted for a recall. When replacing the furnace, please call 888-803-0512 with reference code SF-090. The new furnace may also need to be retrofitted for the recall.

*Required action if this label is observed in the field, indicating a Blower Guard Kit has already been installed:*

**Attention: If this label is observed on an installed system, call 888-803-0512 if the furnace is being replaced. The installation of a new furnace may need to be retrofitted for the recall. Please refer to the options listed below for all new furnace installations when replacing a furnace with this label.**

## **Drain Pan with Metal Reinforcement Kit**

While we anticipate most in-scope installations will require a Blower Guard Kit, there are some installations that will require the Drain Pan with Metal Reinforcement Kit instead of a Blower Guard Kit.

If the installation does not meet any of the previously defined exemptions, and meets ANY the following requirements, the required action is the installation of a Drain Pan with Metal Reinforcement Kit.

*Installations that require Drain Pan with Metal Reinforcement Kit (if not exempted as defined above):*

1. System with the in-scope coil/drain pan service part is matched to Heat Pump outdoor unit (not Air Conditioner)
2. In-scope coil/drain pan service part is matched with any competitors' condensing gas furnace installed in an upflow orientation

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3. In-scope coil/drain pan service part is matched with a Goodman or Amana brand condensing gas furnace not listed in **Table 2** or **Table 3**, and is installed in an upflow orientation

For 3/8” evaporator coils from families listed in **Table 1** (with no “A” in the fifth digit) that do not meet any exemptions, and meet any of the three requirements above, we require the installation of a Drain Pan with Metal Reinforcement Kit as denoted in **Table 4** below. For installation information and more details see IO-7006.

Table 4	
Drain Pan with Metal Reinforcement Kit	
Coil width	Kit number
A (14" wide)	DPKT3A
B (17.5" wide)	DPKT3B
C (21" wide)	DPKT3C
D (24.5" wide)	DPKT3D

### Additional important information

Goodman will pay Class “A” labor to install the Blower Guard Kit on any furnace as identified in **Table 3** matched with a coil as listed in **Table 1** if the coil serial prefix is between 1901 to 2101. Claim must be filed using Authorization Code **8721**.

If the Drain Pan with Metal Reinforcement Kit is installed, it is not necessary to install the Blower Guard Kit. Goodman will pay Class “A” labor to replace the drain pan if it is not necessary to break into the sealed system. Claim must be filed using Authorization Code **8722**. This applies to all applications where the drain pan must be replaced.

If it is necessary to break into the sealed system to replace the drain pan with the Drain Pan with Metal Reinforcement Kit as listed in **Table 4** above, Goodman will pay Class “D” labor. Claim must be filed using Authorization Code **8723**. This applies to drain pan replacement for all applications where the drain pan must be replaced.

Claims must be filed on Warranty Express as an Authorization type claim, using Authorization Code number as specified above. The claim for the part and labor should be filed as one claim, using the Dealer’s account number.

Please consult the Warranty Department if you need assistance with this process. The claim will be paid upon review by the Warranty Department. Warranty Claims will be approved for equipment that is still covered under the terms of Standard Warranty. **Claims should be submitted within 45 days from the date of repair.**

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