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**Author:** George Mooney

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**Title:** A/C Refrigerant and Oil Capacities

**Applies To:** All current models

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

07/18/2025 - Updated with current vehicle capacities, moved prior info below to legacy information.  
 09/24/2020 - Add clarity to DuraStar EPA 2010 to include "All Engines" to address feedback  
 09/04/2020 - Updated PAG oil PNs, added notes for CV, corrected typos  
 06/18/2020 - Updated HX charge level

## DESCRIPTION

This document lists out the correct system/component refrigerant and oil capacity, based on Engine and Model of the Vehicles below. This article is for reference only, always default to the vehicle's refrigerant tag for the appropriate amount of refrigerant fill.

## CHARGE QUANTITIES

### NOTE:

For information on electric vehicle (EV) A/C system capacities, please refer to iKNOW Document IK2300021: Servicing Air Conditioning Systems on Electric Vehicles by following the link below.

[IK2300021 - Servicing Air Conditioning Systems on Electric Vehicles](#)

Model Synonym	Model	Engine	Production date		Refrigerant	Refrigerant Charge Amount (Per Label)			Oil	Oi
			In Date	Out Date		(oz)	(lbs)	(kg)		
M-VISTA	CV51500	0012GAE/0012GAG/ 0012GAH/0012GAJ	1/7/2019	Present	R134a	30	1.9	0.85	PAG 46	
			5/7/2018	1/7/2019		32	2	0.9	PAG 46	
M-MV (N/0510192) Old Body Style	MV60700 MV60H00	F-2021-B6.7-ENG F-2024-B6.7-ENG F-ISB-EURO4-ENG F-ISB-EURO5-ENG	8/7/2017	Present	R134a	30	1.9	0.86	PAG 46	
M-MV (W/0510192) New Body Style	MV60700 MV60H00	F-2021-B6.7-ENG F-2024-B6.7-ENG F-ISB-EURO4-ENG F-ISB-EURO5-ENG	6/21/2021	Present	R134a	24	1.5	0.68	PAG 46	
			8/30/2019	6/21/2021	R134a	30	1.9	0.68	PAG 46	
MV Chassis	MV60C00	F-2021-B6.7-ENG F-2024-B6.7-ENG	2/27/2023	Present	R134a	24	1.5	0.68	PAG 46	
CE Bus Dash AC		F-2021-B6.7-ENG F-2024-B6.7-ENG	12/14/2020	Present	R134a	40	2.5	1.1	PAG 46	
M-HV-107- MD	HV50700 HV50B00 HV60700	F-2021-B6.7-ENG F-2024-B6.7-ENG F-ISB-EURO3-ENG F-2021-L9-ENG F-2024-L9-ENG	8/7/2017	Present	R134a	30	1.9	0.86	PAG 46	

		F-ISL-EURO3-ENG F-ISL-EURO5-ENG									
M-HV-113- HD	HV51300 HV61300	F-INTL-2024-CBE1-ENG	1/9/2023	Present	R134a	30	1.9	0.86	PAG 46		
M-HV-115	HV51500	F-INTL-2024-CBE1-ENG	2/25/2023	Present	R134a	30	1.9	0.86	PAG 46		
	HV61500		1/3/2024	Present	R134a	30	1.9	0.86	PAG 46		
M-HV-107- HD	HV60G00	F-ISM-EPA99-ENG F-ISM-EUROIV-ENG F-ISM-EUROV-ENG	1/9/2023	Present	R134a	30	1.9	0.86	PAG 46		
HV		F-INTL-2021-A26-ENG	3/23/2020	Present	R134a	30	1.9	0.86	PAG 46		
M-HRZN-125 DAY CAB	LT62A00	F-INTL-2021-A26-ENG F-ISX-EURO4-ENG F-ISX-EURO5-ENG F-ISX-EURO6-ENG F-2021-X15-ENG F-2024-X15-ENG	1/9/2023	Present	R134a	34	2.1	0.95	PAG 46		
	LT62F00					M-HRZN-125 SLEEPER CAB	42	2.6	1.18	PAG 46	
	LT62T00						M-HRZN-113 DAY CAB	34	2.1	0.95	PAG 46
LT62A00	M-HRZN-113 SLEEPER CAB							42	2.6	1.18	PAG 46
LT62F00						M-HX DAY CAB		34	2.1	0.95	PAG 46
LT62T00							M-HX SLEEPER CAB	42	2.6	1.18	PAG 46
RH61A00	M-HRZN-113 DAY CAB	34	2.1	0.95	PAG 46						
RH61F00		M-HRZN-113 SLEEPER CAB	42	2.6	1.18	PAG 46					
RH61T00			M-HX DAY CAB	34	2.1	0.95	PAG 46				
RH61A00	M-HX SLEEPER CAB			42	2.6	1.18	PAG 46				
RH61F00		M-HX DAY CAB		34	2.1	0.95	PAG 46				
RH61T00			M-HX SLEEPER CAB	42	2.6	1.18	PAG 46				
HX52000	M-HX DAY CAB			34	2.1	0.95	PAG 46				
HX62000		M-HX SLEEPER CAB		42	2.6	1.18	PAG 46				
HX52000			M-HX SLEEPER CAB	42	2.6	1.18	PAG 46				
HX62000	M-HX SLEEPER CAB			42	2.6	1.18	PAG 46				

**Legacy Reference:**

HVAC System based on Engine	Models	Charge Amount		
		Ounces	Pounds	Kilograms
ProStar and LoneStar Navistar EPA 2010	ProStar / LoneStar (Day Cab)	40 oz	2.5 lbs	1.13 kg
ProStar and LoneStar Navistar EPA 2010	ProStar / LoneStar (Sleeper Cab)	48 oz	3.0 lbs	1.36 kg
TranStar Navistar EPA 2010	TranStar	44 oz	2.75 lbs	1.25 kg
WorkStar Big Bore Navistar EPA 2010	WorkStar	38 oz	2.375 lbs	1.08 kg
WorkStar Medium Duty I6 Navistar EPA 2010	WorkStar	36 oz	2.25 lbs	1.02 kg
DuraStar EPA 2010 and later	DuraStar	38 oz	2.375 lbs	1.08 kg
TerraStar Navistar EPA 2010	TerraStar	40 oz	2.5 lbs	1.13 kg
ProStar and LoneStar Navistar EPA 2007	ProStar / LoneStar (Day Cab)	40 oz	2.5 lbs	1.13 kg
ProStar and LoneStar Navistar EPA 2007	ProStar / LoneStar (Sleeper Cab)	48 oz	3.0 lbs	1.36 kg
HPV with TXV Navistar EPA 2007	TranStar / WorkStar / DuraStar / CXT / RXT	36 oz	2.25 lbs	1.02 kg
HPV with Orifice Tube Navistar EPA 1998-2004	3200 / 4100 / 4200 / 4300 / 4400 / 7300 / 7400 / 7500 / 7600 / 7700 / 8500 / 8600	30 oz	1.875 lbs	0.85 kg
CF / CityStar Navistar EPA 2004-2007	CF 500 / CF 600 / CityStar	44 oz	2.75 lbs	1.25 kg
1999 and Later HVAC (Underseat Bergstrom Module)	5000i (PayStars) 9100i, 9200i, 9400i, 9900i, CATSevere Service Vehicles (With Titan X Condenser)	62 oz	3.875 lbs	1.76 kg
1999 and Later HVAC (Underseat Bergstrom Module)	5000i (PayStars) 9100i, 9200i, 9400i, 9900i, CATSevere Service Vehicles (With Modine Condenser (Older Vehicles, Export)	54 oz	3.375 lbs	1.08 kg
CAT CT660 (All Engines)	CT660	60 oz	3.75 lbs	1.70 kg
ProStar Cummins ISX 15 L (2007 to current)	Day Cabs	36 oz	2.25 lbs	1.02 kg

ProStar Cummins ISX 15 L (2007 to current)	Sleeper Cabs	48 oz	3.0 lbs	1.13 kg
LT/RH ISX/X15/A26	Day Cab	32 oz	2.0 lbs	0.91 kg
LT/RH ISX/X15/A26	Sleeper Cab	44.8 oz	2.8 lbs	1.27 kg
HX (W/Frame-mounted Dryer)	W/feature code (0012XBC) as used on HX620/HX615/HX520 W/feature code (0012XBN) as used on HX515	62 oz	3.88 lbs	1.76 kg
HX (W/IRD Condenser)	N/feature code (0012XBC) as used on X620/HX615/HX520 N/feature code (0012XBN) as used on HX515/HX520	40 oz	2.5 lbs	1.13 kg
HV/MV	Horizon HVAC Module	30.4 oz	1.9 lbs	0.86 kg
CV	Please refer to the CV truck manual			

## **OIL CAPACITY**

<b>Note:</b>
The chart below does not include CV. Please refer to the CV truck manual for details.

Component	Capacity (cc)	Capacity (oz)
Compressor	200**	6.76**
Evaporator	60	2.0
Condenser	60	2.0
Filter/Drier	15	0.5
Expansion Valve	0	0.0
Hoses (normal length)	10	0.3
Low Pressure Switch	0	0.0
Minor system leak	30	1.0
Major system leak	90	3.0
Complete System	300	10.14
<b>**Equal to the amount of oil drained from the original compressor</b>		
<b>NOTE:</b> Use PAG 46 oil with TCCI compressors (PN FLTPAG46LUB8OZKK)		
<b>NOTE:</b> Use PAG 100 oil with Sanden compressors (PN FLTPAG100LUB8OZKK)		

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