



SERVICE BULLETIN

Title: 17/19EX Revised R-134a Refrigerant Charge
Models Affected: 17/19EX

Number: C9723
Date: 7/22/97
Supersedes: New

Purpose:

This bulletin is intended to provide information regarding the revised R-134a refrigerant charges for the 17/19EX machines. This bulletin was originally released to the field sales organization as bulletin 17/19EX-97-06. The current product literature will be corrected at reprint.

File: Installation, Start-Up, & Operation

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Information:

The following tables represent the current and old R-134a refrigerant charge values for all 17/19EX heat exchangers. The total machine charge can be calculated from the tables and will appear on the unit nameplate. These values are estimates for total charge amounts. Final refrigerant charge amounts will depend on job conditions, and may require trimming by the start-up technician. Below is an example of how to calculate the amount of refrigerant charge for a 17EX4857 unit.

Vessel	Charge(lb)	Charge (kg)
48 Cooler (from Table 1)	2540	1152
57 Condenser (from Table 2)	1420	644
Economizer (from Table 3)	840	381
Total	<u>4800</u>	<u>2177</u>

Recently shipped machines may not have nameplate charge amounts that match the expected values from the E-Cat, Product Data, Installation Instructions, or Start-Up, Operation and Maintenance Instructions values. If there is any doubt as to the amount of charge required on a recently shipped unit, check the unit nameplate or contact your order correspondent.

Table 1 — Cooler Refrigerant Charge

Cooler				
Code	Refrigerant (R-134a)			
	Current		Old	
	lbs	kg	lbs	kg
31	1690	766	1540	698
32	1790	812	1640	744
33	1890	857	1740	789
41	1990	902	1900	862
42	2090	948	2000	907
43	2190	993	2100	952
44	1400	635	2190	993
45	2060	934	2260	1025
46	2160	980	2360	1070
47	2260	1025	2460	1116
48	2540	1152	2540	1152

Table 2 — Condenser Refrigerant Charge

Condenser				
Code	Refrigerant (R-134a)			
	Current		Old	
	lbs	kg	lbs	kg
31	600	272	950	431
32	600	272	950	431
33	600	272	950	431
41	700	317	1090	494
42	700	317	1090	494
43	700	317	1090	494
45	1200	544	1400	635
46	1200	544	1400	635
47	1200	544	1400	635
51	800	363	1100	499
52	800	363	1100	499
53	800	363	1100	499
55	1420	644	1420	644
56	1420	644	1420	644
57	1420	644	1420	644

Table 3 — Economizer Refrigerant Charge

Economizer*			
Length+		Refrigerant (R-134a)	
ft	m	lbs	kg
12	3.66	610	277
17	5.18	840	381

Note: * — Economizer refrigerant charges did not change.

+ — Cooler Sizes 31-44 use the 12' economizer. Cooler sizes 45-48 use the 17' economizer.