



## SERVICE BULLETIN

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**Subject:** 23XL Refrigerant & Oil Charges  
**Models Affected:** 23XL

**Number:** C9503  
**Date:** 02/02/95  
**Supersedes:** C9412  
**Date:** 12/14/94

**Subject:**

The numbers below represent the total refrigerant charge for 23XL Hermetic Screw Chillers. Note that the charge is dictated by the cooler size.

**File:** Installation, Start-up, Operation.

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**Table 1 — Refrigerant Charges**

Cooler Size	Economizer	Refrigerant			
		HCFC-22		HFC-134a	
		lb	kg	lb	kg
10 -11	No	600	272	*	*
	Yes	650	295	*	*
20 -21	No	700	318	*	*
	Yes	750	340	*	*
40	No	900	408	^ 800	^ 363
	Yes	1000	454	^ 850	^ 386
41	No	1000	454	^ 850	^ 386
	Yes	1100	499	^ 900	^ 408
42	No	1100	499	^ 900	^ 408
	Yes	1200	544	^ 950	^ 431
43	No	1200	544	950	431
	Yes	1300	590	1000	454

\* Not available or retrofitable when using HFC-134a.

^ Revised since last issue.

**Table 2 — Oil Charges**  
**Oil type — inhibited polyolester base**  
**Viscosity — 1080 SSU (ISO 220)**

Frame 1 & 2 Chiller	4.2 gallons (15.9 liters)
** Frame 4 Chiller	10 gallons (27.8 liters)

\*\*Chillers (frame 4) shipped with 15 psi nitrogen will require an additional 2 gallons (7.6 liters) of oil to be charged in the field into the cooler prior to charging the machine with refrigerant.

<b>Part Number</b>	<b>Description</b>
PP23BZ-104	OIL, 5 Gallons (18.9 liters)
# P903-1205	OIL, 2 Gallons ( 7.6 liters)

# Totaline part number.