

Revision Date: 4/12/2023

TXV System with Filter Drier

Refrigerant Charge Chart		Straight Tie-In *Must add Factory Charge	Condenser	e-In w/Condenser *Must add Factory Charge	Stand Alone	Please read all notes at bottom of chart before charging system.	
Evaporator							Other Notes:
Skirt Condensers	22007/ 22090/ 23036 (single blower side)	2.00 lbs** (25' Liquid line Length)	25014	3lbs 8oz**	3lbs 6oz	International Factory Sp15 =3.75 lbs	
			25034/25036	3lbs 8oz**	4lbs 8oz		
			25062/25063	3lbs 2oz**	2lbs 8oz		
	22022/ 23022/ 23048/ 23056 (23055 single blower side)	2.00 lbs**		25034/25035	4lbs 4oz**	4lbs 8oz	
				25049/25074	-	6lbs 12oz	
				25060	3lbs 6oz**	4lbs	
				25062/25063	3lbs 14oz**	2lbs 8oz	
			25065/25073	3lbs 8oz**	2 lbs 12oz		
	22023/ 23023/ 23044/ 23045/22088/22125/23088/ 23119/23120/23125/ 23046/ 23052/ 23053 (23036/ 23055 dual blower side)	N/A		25034/25035	4lbs 12oz**	-	
				25046/25077	-	8lbs 4oz	
			25049/25074	8lbs**	7lbs 8oz		
			25060	4lbs 4oz**	4lbs 4oz		
			25060		4lbs 4oz	#16 Suction Hose - FDOT 23045 Front Mount -Liquid line Length 20'	
			25062/25063	4lbs 6oz**	-		
			25065/25073/25072	-	3lbs	#16 Suction Hose - FDOT 23023 Rear Mount -Liquid line Length 45'	
22035/ 23061	1.50 lbs**	25034/25035	4lbs**	4lbs 6oz			
23036 (tied together)	N/A	25062/25063	3lbs 10oz**	2lbs 8oz			
		25060	-	5lbs 4oz			
23047	N/A		25046/25077	-	8lbs 8oz	w/TM-21	
			25060	-	5lbs 10oz	#16 Suction Hose - Liquid line Length 32'	
			25060	-	4lbs 8oz		
23055 (tied together)	N/A	25060	-	5lbs 10oz			

Notes:

Charges listed for skirt mounted Condensers have the skirt grills and block off plates installed.
 Charge amounts are based on a liquid line length of 25' for auxiliary units Ford and GM chassis's only.
 For every 5' of liquid line length above 25' add 1/4 lb of refrigerant to the above amounts.
 For every 5' of liquid line length below 25' deduct 1/4 lb of refrigerant to the above amounts.

Rooftop Condensers	22007/ 22090/ 23036 (single blower side)	N/A	25045 RT	-	5lbs 4oz	
			25058 RT	2bs 6oz**	3lbs	One side of condenser
			25067 RT	-	1lbs 8oz	
	22022/ 23022/ 23048/ 23056 (23055 single blower side)	N/A	25045 RT	6lbs**	5lbs 4oz	
			25058 RT	3lbs 2oz**	3lbs 4oz	One side of condenser
			25067 RT	3lbs 4oz**	1lbs 8oz	
	22023/ 23023/ 23044/ 23045/22088/22125/23088/ 23119/23120/23125/ 23046/ 23052/ 23053 (23036/ 23055 dual blower side)	N/A	25045 RT	6lbs**	5lbs 12oz	
			25047RT	-	7lbs 4oz	
			25055 RT	-	3lbs 4oz	
			25058 RT	3lbs 8oz**	3lbs 10oz	One side of condenser
		25067 RT	3lbs 8oz**	1lbs 14oz		
22035/ 23061	N/A	25045 RT	-	5lbs		
23036 (tied together)	N/A	25055 RT	-	3lbs 10oz	TM-31 Dual Lines #12 #16	
22047/23047	N/A	25047 RT	-	7lbs 8oz		
		25055 RT	-	3lbs 4oz		
		25055 RT	-	3lbs 14oz	#16 Suction Hose - Suction line FDOT length 32'	
		25058 RT	-	5 lbs	Both sides of condenser tied together	
23036 (tied together)	N/A	25055 RT	-	3lbs 6oz		
23055 (tied together)	N/A	25055 RT	-	3lbs 12oz		

Notes:

Charges listed for Roof mounted Condensers are based on 2' of Liquid line length.
 For every additional 5' of liquid line length add 1/4 lb of refrigerant to the amounts.

TC-60	Single System / Single Compressor	-	3lbs 9oz	
TC-80	Single System / Single Compressor	-	3lbs 9oz	
TC-96 (37001)	TM-21 comp.	-	10 lbs	Each side
	Hybrid comp.	-	21 lbs	Both sides tied together
Mini Sphere 130	Single System / Single Compressor	-	4 lbs	Stand Alone Only (29.5' - 36' Hoses)

System Oil:

TC units hose length 25' base charge. Add refrigerant for longer hoses
 * Must add Factory Charge to the amount listed above.
 *** MUST use accumulator with Ford F-SRS and Dodge 35/4500 Trucks.
 **** Rear Unit Condenser mounted on passenger side of chassis
On a New install add 1.75 oz. PAG oil for every 1lb of Refrigerant in the system.
All Compressors except TM31, 43, 55 and 65 Refer to oil charge process for these compressors.
 On a recovered system add back ONLY the amount of oil that was pulled out (removed) when recovered.
 All Spheros add on compressors come standard with oil from factory. Not included in listed charge amount.
 Minisphere applications: follow charge on chart while also using Oil Type: **Pag 46 Viscosity Oil Amount: 7 Fl Oz**

**** For variations /combinations of the above systems please call Spheros for correct charge amount. ****