



*Tecumseh*

# POLICY BULLETIN

**SUBJECT: Compressor Oil Specification PB-105**

**PAGE: 1 of 2**

**REV. DATE: 30\_MAY\_2018**

A proper "**oil charge**" and "**approved refrigerant**" contribute materially to successful compressor operation and long service life.

Tecumseh Products Company LLC has determined the optimum oil charge for each of its compressors and, this amount is specified on the compressor bill of material. This is a mandatory oil charge based on the premise that the compressor will be installed in a close-coupled system designed in accordance with good engineering practice.

Some system designs containing unusual evaporators and/or extensive interconnected piping may require additional oil. However, since excess oil can also damage compressors, it is imperative that extreme caution be followed in exceeding the specified oil charge amount. Refer to Tecumseh Engineering Recommendation ER-1 for recommended line sizes.

Due to the many new refrigerants and oils, it became necessary to add TABLE "A" which shows the preferred oil type for the generic refrigerant type. TABLE "B" lists the oil type and TABLE "C" lists the approved oil source used in the respective Tecumseh compressor series.

If the correct oil charge is in doubt, please obtain assistance from your local Tecumseh representative.

**TABLE "A"**

<u>Refrigerant</u>	<u>Oil Type</u>
CFC's	1,2,4
HCFC-22	1,2,3,5
HCFC-Other	2,5
HFC's	5,6
HC	1,3,5

**TABLE "B"**

<u>Ref#</u>	<u>Oil Type</u>
1	Yellow (Napthenic)
2	Synthetic (Alkylate)
3	White (Napthenic/Paraffinic)
4	Paraffinic
5	Polyol Ester
6	Polyvinyl Ether



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**TABLE "C"**

Lubricant Manufacturer and Lubricant Type	Tecumseh Fixed Speed Compressor Series																	OIL TYPE		
	AZ	AE AE2 AEX	AK AK2	AJ AJ2	AH	AW AW2	AV	AG	RK	RG	HG	RK2 RN2	VS	TA TA2	TH	TP	TS		TC	
Sonnebome Suniso 1GS						X <sup>+</sup>														1
Sonnebome Suniso 1GST																X	X			1
Sonnebome Suniso 3GS	X	X	X	X	X	X	X													1
Shrieve Zerol 150TD	X	X	X	X	X	X	X									X	X			2
Shrieve Zerol 150T	X	X																		2
Shrieve Zerol 300T								X	X	X	X									2
Penreco Soltex SA-68								X	X	X	X									2
Sonnebome LP200			X			X	X	X	X <sup>@</sup>											3
Penreco Sontex 200LT			X			X	X	X	X <sup>@</sup>											3
Savsol 2500EP																X				3
Total – A68		X <sup>*</sup>																		4
Mobil EAL Arctic 32, 22	X	X	X	X	X	X	X													5
BASF ProEco 32ML	X	X	X	X	X	X	X													5
CPI Emkarate RL32H	X	X	X	X	X	X	X													5
Jomo Freol Alpha 22E	X	X	X	X	X	X	X									X				5
Mobil EAL Arctic 15																			X	5
CPI Emkarate RL10H,RL15H															X		X	X		5
BASF ProEco 22S																X				5
BASF ProEco 32SL	X	X	X	X	X	X	X	X								X	X		X	5
BASF ProEco 10S															X	X	X	X		5
CPI Fluid Eng. CP-2932AE	X	X	X	X	X	X	X	X								X	X		X	5
CPI Fluid Eng. CP-2910-E															X	X	X	X		5
Lanxess Solutions US Hatco 3681 (Mobile Arctic EAL22)														X						5
Emkarate RL68H												X								5
Idemitsu FVC32D													X							6
Idemitsu, FVC68D									X	X	X									6

\* Commercial and High Back Pressure AE/AE2 series compressors only.

@ Not for Use In RK Series Rotary Compressors for Split System Air Conditioners and Heat Pumps.

+ Only AWD Series compressor models can and must use 1GS oil.

**TABLE "D"**

Lubricant Manufacturer and Lubricant Type	Tecumseh Variable Speed Compressor Series										OIL TYPE	
	VA	VTC L / MBP	VTC M / HBP	VAE	CASCADE LBP	CASCADE HBP	SIERRA	VR	ATLAS	MESA		
Sonnebome Suniso 1GST	X											1
CPI Fluid Engineering CP-2932AE			X	X		X						5
CPI Fluid Eng. CP-2910-E		X			X							5
BASF ProEco 10S		X			X							5
BASF ProEco 32SL			X	X		X						5
Emkarate RL68H								X	X			5
Solest SE170											X	5
Idemitsu, FVC68D								X				6