



## Technical Bulletin (TB-0014)

### Oil Specifications for Compact Screw Compressors

BITZER Compact Screws are available in both standard CSH models for medium and high temperature condensing applications and our CSW series for water-cooled, low condensing temperature applications. These compressors offer excellent part and full load efficiencies.

A key aspect to utilizing these compressors to their fullest potential is specifying the correct oil for your refrigerant. While CSH screws may use BSE 170 oil in a variety of refrigerants (R134a, R407C, R404A and R507A), the CSW series is best operated using BSE 170 L oil while running R134a refrigerant. Mixing the BSE 170 and BSE 170L oils in a CSW compressor while running R134a can result in decreased performance, especially at part load. BITZER US will be stocking BSE 170 L oil to allow our customers to better service the CSW line-up.

An overview of the BITZER oil offering for both the CSH and CSW Compact Screws follows:

Model	Refrigerant	OIL
CSH	R22	B320SH
	R134a / R407C / R404A / R507A / R407A / R407F	BSE170
CSW	R22	B320SH
	R134a	BSE170L
	R407C	BSE170

Part number	U/M	Description
793-3170-34	5 gallon	BSE 170 POLYOLESTER
793-1170-34	1 gallon	BSE 170 POLYOLESTER

915118-02	10 liter	BSE 170 L POLYOLESTER
915118-01	5 liter	BSE 170 L POLYOLESTER
915118-06	1 liter	BSE 170 L POLYOLESTER

793-3320-34	5 gallon	B320SH POLYOLESTER
793-3320-01	1 gallon	B320SH POLYOLESTER