

## 920 & 920R Series Coalescent Oil Separators: Accessible

Compatible with all traditional refrigerants including Ammonia (NH<sub>3</sub>) and Subcritical CO<sub>2</sub>



920 Series



920R Series

### Lower Energy Costs & Carbon Emissions

The energy-efficient 920 & 920R Series of coalescent oil separators are designed for maximum energy efficiency. Temprite separators make refrigeration systems clean and green by lowering energy costs and reducing carbon emissions.

The 920R Series delivers the:

- Highest measured capacity of refrigeration.
- Lowest kilowatts required per unit of cooling (per ton).

### Large-Scale Refrigeration Cost Savings

In large parallel rack/multiplex systems with long lines, dirt and excess oil put an even greater drag on system efficiency.

- Both problems are eliminated with the 920 & 920R Series separators, increasing system capacity and efficiency and lowering energy costs.
- Energy savings scale up with larger systems.

### Compatible with Ammonia (NH<sub>3</sub>)\* and Subcritical CO<sub>2</sub>

**Both 920 & 920R Series are compatible with ammonia (NH<sub>3</sub>)\* and subcritical CO<sub>2</sub> and designed for 44.8 bar (650 PSI). (For subcritical CO<sub>2</sub> above 44.8 bar, see 130 Series on page 5.)**

920 & 920R separators offer easy accessibility to the Temprite Standard Filter for changes. Other products require disassembling and re-welding the separator for filter changes. Because ammonia is a cleaning agent, more dirt is removed from the system and deposited in the filter. \*To order ammonia-compatible models, change the last three digits of the part number to "717." Example: 092600000 changes to 092600717.

Both Series offer a choice of Imperial or metric ODS connections. Check with Temprite for metric sizes.

### External Reservoir

All 920 Series models are designed for use with an external reservoir.

### "R" is For Reservoir

An oil reservoir is built into each 920R Series coalescent oil separator. The built-in reservoir reduces piping, components and potential leaks and creates a stable, high-pressure oil system.

**Because the oil reservoir is built-in, 920R Series separators do not have a float.**

The 920 & 920R Series  
Cost Savings  
Calculator

IP - BTUS, °F, etc.   
  SI - kW, °C, etc.   
 US Dollar   
 How to Use?

MEDIUM TEMPERATURE (+20° F)		LOW TEMPERATURE (-20° F)	
System Capacity in Tons (Example: 100)	100	System Capacity in Tons (Example: 67)	67
Electrical Consumption Improvement in kW/Tons*	X 0.011	Electrical Consumption Improvement in kW/Tons*	X 0.018997
Run Hours/Day (Example: 24)	X 24	Run Hours/Day (Example: 24)	X 24
Energy Cost kWh (Example: \$.085)	X .085	Energy Cost kWh (Example: \$.085)	X .085
Run Days per Year (Example: 365)	X 365	Run Days per Year (Example: 365)	X 365
<b>Annual Savings per Store</b>	<b>= \$819.06</b>	<b>Annual Savings per Store</b>	<b>= \$947.73</b>

**CHAIN WIDE/LIFE OF SYSTEM SAVINGS**

Low Temp + Med Temp Savings	\$1,766.79	Annual Savings	\$17,667.86
Number of Stores	X 10	10 Year Estimated Life of System	\$176,678.61

\* Delta between Temprite 920 Series and Henry Helical. Temprite kW/Tons savings will be even greater due to higher efficiency during unloading conditions.

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### 920 & 920R Cost Savings Calculator

Temprite's 920 & 920R Series "Cost Savings Calculator" allows you to see how much energy and money you'll save using coalescent oil separators based on your system, price of energy, run days and total capacity. You'll see how savings increase based on the number of stores, both annually and for the 10-year life of system, and how carbon emissions are reduced. Coalescing separators remove 95% to 99% of the oil from a system's mass flow while maintaining the same level of effectiveness regardless of system velocities and loads. This is especially important for large-scale refrigeration systems: 60% of a grocery store's cost of operation is refrigeration. Visit [www.temprite.com](http://www.temprite.com) and find out how much you can save. (Savings Calculator works with both Imperial and metric input.)

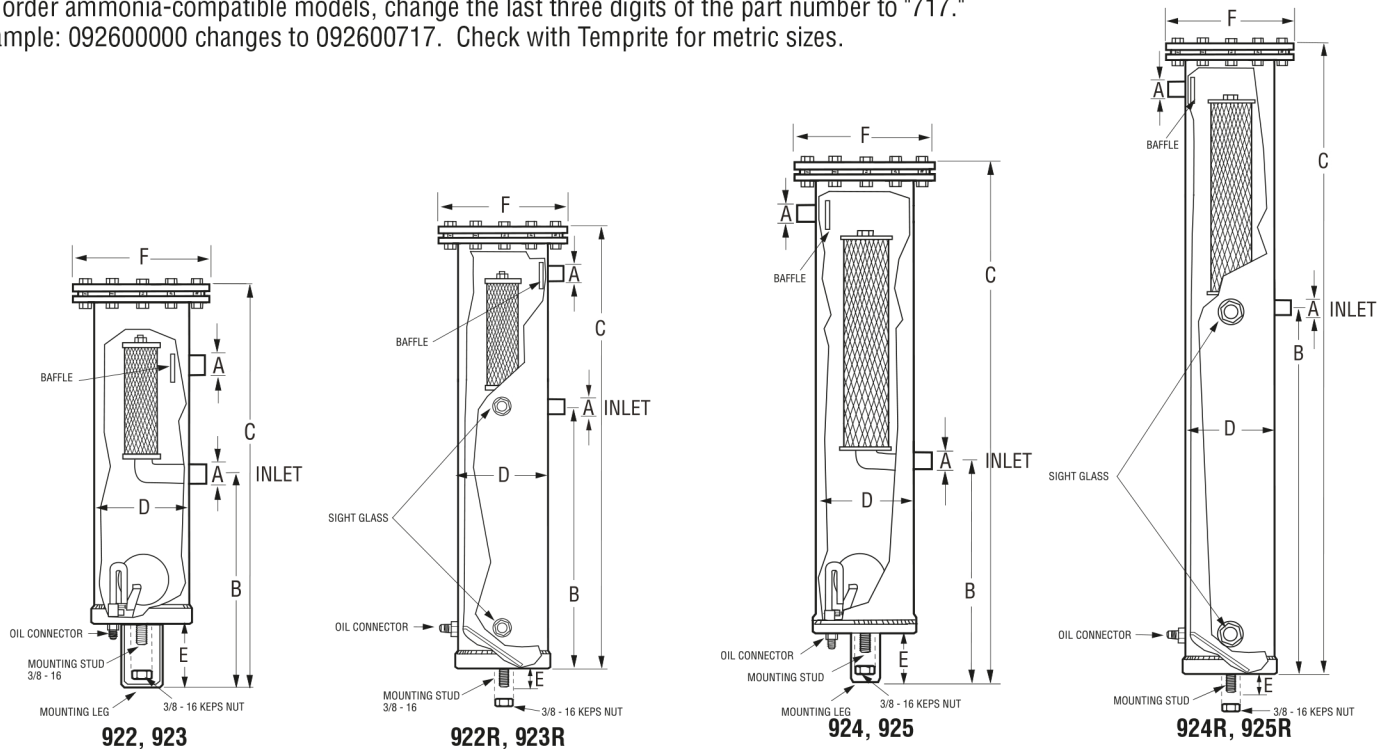
## 920 & 920R Series: Accessible

Maximum Working Pressure: 44.8 bar (650 PSI)

Compatible with all traditional refrigerants including ammonia (NH<sub>3</sub>) and subcritical CO<sub>2</sub>.

To order ammonia-compatible models, change the last three digits of the part number to "717."

Example: 092600000 changes to 092600717. Check with Temprite for metric sizes.



### Models 922, 923, 922R, 923R

Part #	Model #	Oil Conn. Size	A Dim.	B Dim.	C Dim.	D Dim.	E Dim.	F Dim.	Oil Charge Amt.
092200000	922	1/4" SAE*	5/8" ODS* 15.88 mm	9-3/8" 238 mm	17-1/4" 438 mm	4" 102 mm	3" 76 mm	6-1/2" 165 mm	16 oz. 475 ml.
092300000	923	1/4" SAE*	7/8" ODS* 22.23 mm	9-3/8" 238 mm	17-1/4" 438 mm	4" 102 mm	3" 76 mm	6-1/2" 165 mm	16 oz. 475 ml.
092201000	922R	1/4" SAE*	5/8" ODS* 15.88 mm	11-5/8" 295 mm	19-1/2" 495 mm	4" 102 mm	3/4" 19 mm	6-1/2" 165 mm	77 oz. 2.27 Liters
092301000	923R	1/4" SAE*	7/8" ODS* 22.23 mm	11-5/8" 295 mm	19-1/2" 495 mm	4" 102 mm	3/4" 19 mm	6-1/2" 165 mm	77 oz. 2.27 Liters

### Models 924, 925, 924R, 925R

Part #	Model #	Oil Conn. Size	A Dim.	B Dim.	C Dim.	D Dim.	E Dim.	F Dim.	Oil Charge Amt.
092400000	924	1/4" SAE*	1-1/8" ODS* 28.58 mm	9-3/8" 238 mm	21-5/8" 549 mm	4" 102 mm	3" 76 mm	6-1/2" 165 mm	16 oz. 475 ml.
092500000	925	1/4" SAE*	1-3/8" ODS* 34.93 mm	9-3/8" 238 mm	21-5/8" 549 mm	4" 102 mm	3" 76 mm	6-1/2" 165 mm	16 oz. 475 ml.
092401000	924R	1/4" SAE*	1-1/8" ODS* 28.58 mm	16-3/8" 416 mm	28-5/8" 727 mm	4" 102 mm	3/4" 19 mm	6-1/2" 165 mm	109 oz. 3.22 Liters
092501000	925R	1/4" SAE*	1-3/8" ODS* 34.93 mm	16-3/8" 416 mm	28-5/8" 727 mm	4" 102 mm	3/4" 19 mm	6-1/2" 165 mm	109 oz. 3.22 Liters

\* SAE = 45° Flare Connection, ODS = Outside Diameter Solder

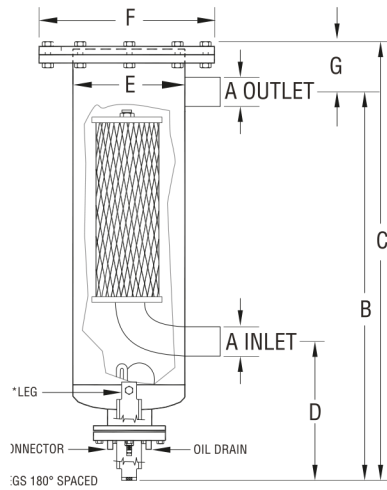
See page 13 for additional notes; see pages 16-18 for sizing.

# Temprite® Coalescent Oil Separators

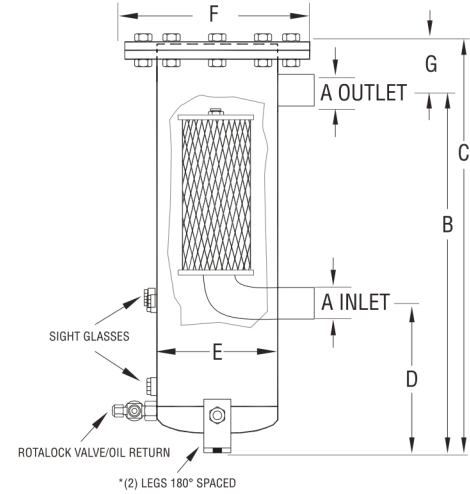
## 920 & 920R Series: Accessible

Maximum Working Pressure: 44.8 bar (650 PSI)

Compatible with all traditional refrigerants including ammonia (NH<sub>3</sub>) and subcritical CO<sub>2</sub>. To order ammonia-compatible models, change the last three digits of the part number to "717." Example: 092600000 changes to 092600717. Check with Temprite for metric sizes.



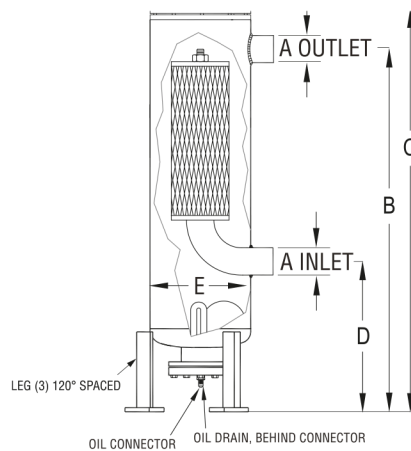
926, 927



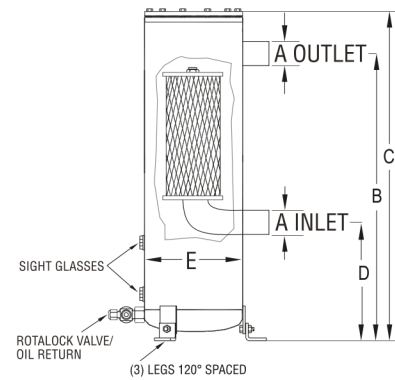
926R, 927R

### Models 926, 927, 926R, 927R

Part #	Model #	Oil Conn. Size	A Dim.	B Dim.	C Dim.	D Dim.	E Dim.	F Dim.	G Dim.	Oil Charge Amt.
092600000	926	3/8" SAE*	1-5/8" ODS* 41.28 mm	29-7/16" 748 mm	35" 889 mm	12" 305 mm	6" 152 mm	8-1/2" 216 mm	4-1/2" 114 mm	34 oz. 1 Liters
092700000	927	3/8" SAE*	2-1/8" ODS* 53.98 mm	29-7/16" 748 mm	35" 889 mm	12" 305 mm	6" 152 mm	8-1/2" 216 mm	4-1/2" 114 mm	34 oz. 1 Liters
092601000	926R	3/8" SAE*	1-5/8" ODS* 41.28 mm	33-7/8" 860 mm	38-3/8" 975 mm	16-5/8" 422 mm	6" 152 mm	8-1/2" 216 mm	4-1/2" 114 mm	1.8 Gal. 6.7 Liters
092701000	927R	3/8" SAE*	2-1/8" ODS* 53.98 mm	33-7/8" 860 mm	38-3/8" 975 mm	16-5/8" 422 mm	6" 152 mm	8-1/2" 216 mm	4-1/2" 114 mm	1.8 Gal. 6.7 Liters



928



928R

### Models 928, 928R

Part #	Model #	Oil Conn. Size	A Dim.	B Dim.	C Dim.	D Dim.	E Dim.	Oil Charge Amt.
092800000	928	3/8" SAE*	2-5/8" ODS* 67 mm	33-5/8" 854 mm	39-1/2" 1003 mm	12-3/4" 324 mm	8-5/8" 219 mm	34 oz. 1 Liter
092801000	928R	3/8" SAE*	2-5/8" ODS* 67 mm	32-3/8" 822 mm	37" 940 mm	11-1/2" 292 mm	8-5/8" 219 mm	2.0 Gal. 7.55 Liters

\* SAE = 45° Flare Connection, ODS = Outside Diameter Solder

See page 13 for additional notes; see pages 16-18 for sizing.

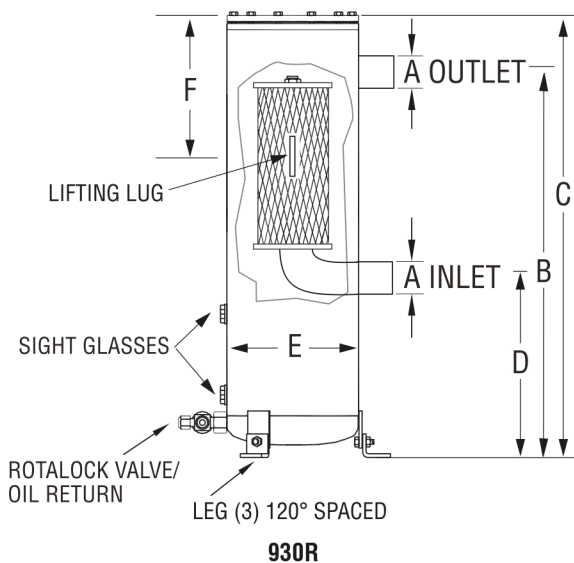
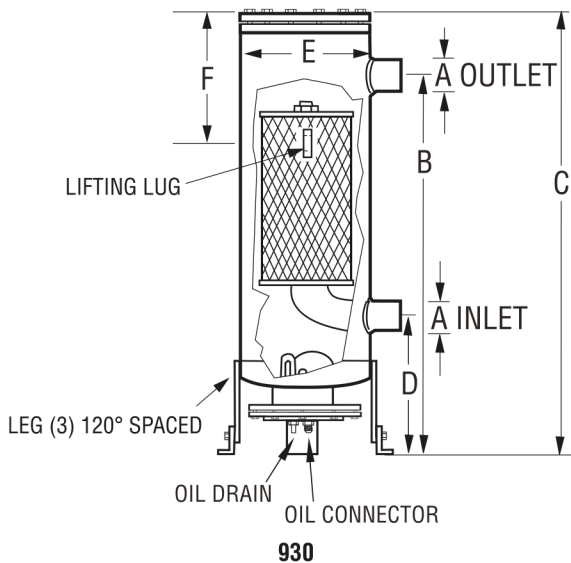


**920 & 920R Series: Accessible**

Maximum Working Pressure: 44.8 bar (650 PSI)

**Models 930, 930R**

Compatible with all traditional refrigerants including ammonia (NH<sub>3</sub>) and subcritical CO<sub>2</sub>. To order ammonia-compatible models, change the last three digits of the part number to "717." Example: 092600000 changes to 092600717. Check with Temprite for metric sizes.



Part #	Model #	Oil Conn. Size	A Dim.	B Dim.	C Dim.	D Dim.	E Dim.	F Dim.	Oil Charge Amt.
093000000	930	3/8" SAE*	3-1/8" ODS* 79.38 mm	35-3/4" 908 mm	41-3/8" 1050 mm	13-3/4" 349 mm	12-3/4" 324 mm	11" 279 mm	85 oz. 2.5 Liters
093001000	930R	3/8" SAE*	3-1/8" ODS* 79.38 mm	37-1/8" 943 mm	42-3/4" 1085 mm	15-1/8" 384 mm	12-3/4" 324 mm	11" 279 mm	5.7 Gal. 21.25 Liters

\* SAE = 45° Flare Connection, ODS = Outside Diameter Solder

THE CONNECTIONS ON THE OIL SEPARATOR MUST BE THE SAME SIZE AS (OR LARGER THAN) THE DISCHARGE LINE SIZE.

NOTE: All separators can be purchased with a Clean-Up® Filter installed by adding CNF to the end of the part number.

When ordering with the Clean-Up® Filter installed you do not get a spare filter. Call for pricing and lead times.

**300/900/920/920R Series Notes**

For applications other than reciprocating and scroll compressors, (screw type, two-stage) please contact Temprite engineering.

**920/920R Series Notes**

1. All products rated for subcritical CO<sub>2</sub> applications and R-410A applications (Max 650 PSIG).
2. The "R" stands for "Reservoir" and does not have a float to control oil return.

See pages 16-18 for sizing.

**Temprite Standard & Clean-Up® Filters**



The Temprite Standard Filter employs a matrix-type borosilicate coalescent filter. These exceptionally pure, extremely fine glass fibers cause the oil molecules to collide, creating bigger droplets, until each is large enough to be forced to the outer drain layer of the filter. The droplets fall to the bottom of the separator and the oil is returned to the compressor. Because the Temprite Standard Filter is finer than any other filter, it picks up all effluent and dirt in the system down to 0.3 microns in size.

Temprite's Clean-Up® Filters are made of pleated fiber paper that is best suited for cleaning up a very dirty system. After a burnout, just install a Clean-Up® Filter to purge the system of contaminants and you can return the oil to near-virgin state.