

# EMERSON CLIMATE TECHNOLOGIES - SYSTEM PROTECTORS

## SPUN Copper CU Series Liquid Line Filter Drier



The CU series is a high capacity spun copper solid core Filter Drier ideal for superior corrosion resistance in ocean going vessels and coastal applications.

### Features:

- All copper construction for extreme corrosion resistance
- 100% molecular sieve solid core drier
- For use with CFC, HCFC and HFC refrigerants

**Nomenclature** example: CU 163S

<b>CU</b>	<b>16</b>	<b>3</b>	<b>S</b>
Series	Unit Size	Connection Size (in 1/8")	ODF

### Ordering Information and Capacity Tables

Part Number	Connection	Maximum working pressure	Filtration	UL/CUL file number
CU032S	1/4 ODF	500 psig	40 microns	SA 7175
CU033S	3/8 ODF	500 psig	40 microns	SA 7175
CU083S	3/8 ODF	500 psig	40 microns	SA 7175
CU163S	3/8 ODF	500 psig	40 microns	SA 7175

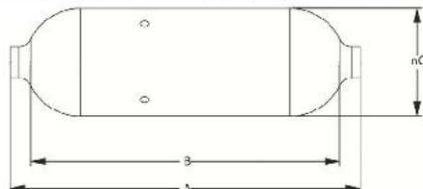
Part No.	Flow Capacity Tons @ 1 psi $\dot{P}$ 1, 4 (For kW, multiply tons by 3.5)					Water Capacity <sup>2</sup> Drops of Water <sup>3</sup>											
						R-12		R-134a		R-22		R-407C		R-404A/R		R-502	
	R-12	R-134a	R-22	R-407C	R-404A/R-507	75 F	125 F	75 F	125 F	75 F	125 F	75 F	125 F	75 F	125 F	75 F	125 F
CU032S	1.4	1.7	1.8	1.8	1.2	96	87	93	87	87	81	72	57	96	93	90	81
CU033S	2.1	2.6	2.8	2.7	1.9												
CU083S	2.9	3.5	3.8	3.7	2.5	212	191	205	191	191	177	156	122	212	205	198	177
CU163S	3.3	4.0	4.3	4.2	2.9	287	257	277	257	257	237	207	158	287	277	267	237

<sup>1</sup> All ratings in accordance with ARI Standard 710-04. 86° F liquid refrigerant temperature 5° F saturated vapor temperature  
 3.1 lbs./min./ton for R-134a  
 2.9 lbs./min./ton for R-22 and R-407C  
 4.0 lbs./min./ton for R-404A/507 and R-12  
 2.7 lbs./min./ton for R-410A

<sup>2</sup> Water Capacities are based on: Equilibrium Point Dryness (EPD) of:  
 50 parts per million for R-134a, R404-A/507, R-410A and R-407C  
 60 parts per million for R-22  
 15 parts per million for R-12

<sup>3</sup> 20 drops of water = 1 gram = 1 cc  
<sup>4</sup> For 2 PSI  $\dot{P}$ , Multiply values by 1.4

### Dimensional Data (in)



Description	Overall Length (A)	Lay-In Dimension (B)	Diameter
CU 03	3.94	3.25	1.63
CU 05	5.19	4.50	1.63
CU 08	6.06	5.38	2.00
CU 16	6.63	6.00	2.00