

## TOTALINE® SUCTION LINE FILTER DRIER WITH CHARCOAL — P503 SERIES

### TOTALINE SUCTION LINE FILTER DRIER WITH CHARCOAL PHYSICAL DATA

#### APPLICATION

- Solid core with special blend to maximize acid, moisture, and wax removal.
- For use with CFC, HCFC and HFC refrigerants.

#### FEATURES

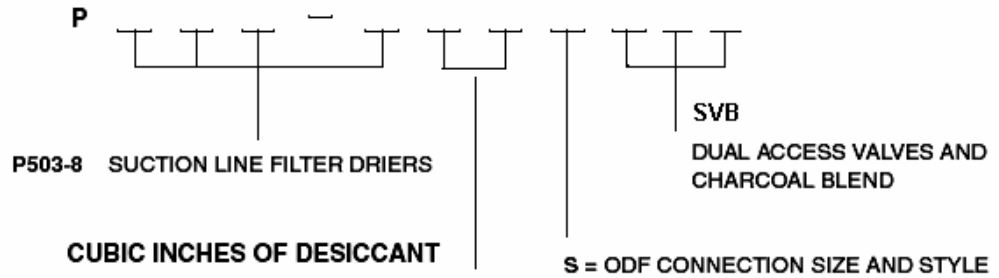
- Charcoal blend for soluble contaminant and wax removal.
- Dual access valves.
- Solid copper fittings.
- Corrosion resistant epoxy powder paint finish.

#### SPECIFICATION

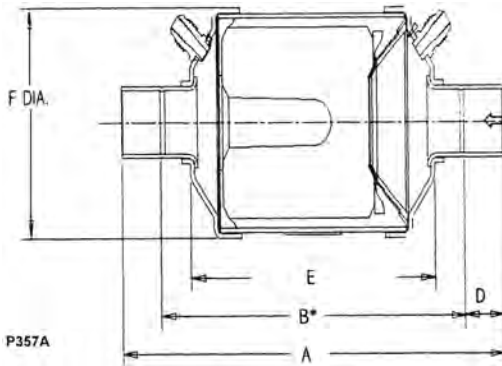
Maximum Working Pressure: 500 PSIG  
 Filtration: 40 microns  
 UL & CUL Approved: UL file number: SA3124.



#### PART NUMBER SIGNIFICANCE



#### DIMENSIONAL DATA



\*B indicates lay-in length.

#### TOTALINE SUCTION LINE FILTER DRIER WITH CHARCOAL

##### PHYSICAL DATA

PART NO	CONNECTION SIZE	DIMENSIONS					SHIP WT (lbs)
		A	B	D	E	F*	
P503-8165SVB	5/8 ODF	6-3/8	5-1/8	5/8	4-5/8	3-9/64	2
P503-8166SVB	3/4 ODF	6-3/4	5-1/2	3/8			
P503-8167SVB	7/8 ODF	6-15/16	5-7/16	3/4	7-1/2	3-9/64	3-3/4
P503-8306SVB	3/4 ODF	9-11/16	8-9/16	5/8			
P503-8307SVB	7/8 ODF	9-7/8	8-3/8	3/4			
P503-8309SVB	1-1/8 ODF	10-3/16	8-3/8	15/16			

## TOTALINE® SUCTION LINE FILTER DRIER WITH CHARCOAL — P503 SERIES CAPACITY TABLE

PART NO	CONNECTION (Size and Type)	FLOW CAPACITY IN TONS REFRIGERANT (For kW, Multiply Tons by 3.5)																	
		R-12				R-134a				R-22				R-407C					
		Evaporator Temperature (°F)																	
		40	20	0	-20	40	20	0	-20	40	20	0	-20	40	20	0	-20	-40	
		Pressure Drop (PSI)																	
2	1.5	1	0.5	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5		
P503-8165SVB	5/8 ODF	1.9	1.4	0.8	0.6	2	1.4	0.8	0.5	3.4	2.1	1.4	0.9	0.4	3.8	2.4	1.7	1.1	0.5
P503-8166SVB	3/4 ODF	2.4	1.7	1.1	0.7	2.5	1.7	1	0.6	4.2	2.6	1.7	1	0.5	4.7	3	2.1	1.2	0.7
P503-8167SVB	7/8 ODF	2.6	1.8	1.2	0.7	2.7	1.8	1.1	0.6	4.6	2.8	1.9	1.1	0.6	5.1	3.2	2.3	1.4	0.8
P503-8306SVB	3/4 ODF	3.3	2.3	1.5	0.9	3.4	2.3	1.4	0.8	5.5	3.5	2.3	1.4	0.8	6.1	4	2.8	1.7	1.1
P503-8307SVB	7/8 ODF	3.5	2.5	1.6	0.9	3.6	2.5	1.5	0.8	6.1	3.8	2.5	1.5	0.8	6.8	4.4	3	1.9	1.1
P503-8309SVB	1-1/8 ODF	3.8	2.6	1.7	0.9	3.9	2.6	1.6	0.8	6.5	4	2.6	1.6	0.8	7.2	4.6	3.1	2	1.1

PART NO	CONNECTION (Size and Type)	FLOW CAPACITY IN TONS REFRIGERANT (For kW, Multiply Tons by 3.5)														
		R-410A					R-502					R-404A/507				
		Evaporator Temperature (°F)														
		40	20	0	-20	-40	40	20	0	-20	-40	40	20	0	-20	-40
		Pressure Drop (PSI)														
3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5		
P503-8165SVB	5/8 ODF	2.3	1.4	1	0.6	0.3	3.3	1.9	1.2	0.8	0.3	3.2	1.9	1.2	0.8	0.3
P503-8166SVB	3/4 ODF	2.9	1.8	1.2	0.7	0.3	4	2.4	1.6	0.9	0.5	3.9	2.4	1.6	0.9	0.5
P503-8167SVB	7/8 ODF	3.1	1.9	1.3	0.7	0.4	4.4	2.6	1.7	1	0.6	4.3	2.6	1.7	1	0.6
P503-8306SVB	3/4 ODF	3.8	2.4	1.6	0.9	0.5	5.2	3.2	2.2	1.2	0.7	5	3.2	2.2	1.2	0.7
P503-8307SVB	7/8 ODF	4.2	2.6	1.7	1	0.5	5.8	3.5	2.3	1.4	0.7	5.6	3.5	2.3	1.4	0.7
P503-8309SVB	1-1/8 ODF	4.4	2.7	1.8	1.1	0.5	6.2	3.7	2.4	1.4	0.7	6	3.7	2.4	1.5	0.7

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration