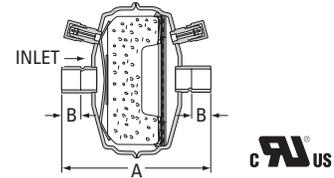


Catch-All® Compact Style Suction Line Filter-Driers



Type C-144-S-TT-HH through C-149-S-TT-HH
 Maximum Rated Pressure of 650 psi / 44.8 bar



PROVEN BENEFITS:

- **Short overall length**, suitable for cramped piping situations — shorter than other similar type filter-driers.
- Suitable for use on **1 through 5 ton air conditioning systems**, with suction line sizes in the range of 1/29 to 1-1/89. Also applicable on the common suction line of heat pump systems.
- **The famous Sporlan HH core** removes all types of contaminants including moisture, acid, dirt, and sludge. A blend of two desiccants, plus activated charcoal, gives maximum performance.
- **Access valves** permit measuring the pressure drop across the filter-drier during clean-up, following a hermetic motor burnout.

APPLICATION

The short overall length of these filter-driers permit easy installation, even on systems with restricted space. While designed for the minimum possible overall length, these filter-driers are suitable for use on most air conditioning systems. The filter-drier has two access

Specifications

TYPE	CONNECTION SIZE Inches ODF Solder	OVERALL LENGTH "A"		SOLDER SOCKET DEPTH "B"		DIAMETER OF BODY		SHIPPING WEIGHT	
		Inches	mm	Inches	mm	Inches	mm	lb	kg
C-144-S-TT-HH	1/2	4.14	105	.50	13	4.44	113	2.0	0.9
C-145-S-TT-HH	5/8	4.38	111	.62	16				
C-146-S-TT-HH	3/4	4.83	123	.69	18				
C-147-S-TT-HH	7/8	4.97	126	.75	19				
C-149-S-TT-HH	1-1/8	4.93	125	.96	24				

Volume of desiccant is 14 cubic inches (229 cm³). Filtering area is 27 square inches (174 cm²).
 CRI US Recognized Component — Guide-SMGT2-File No. SA-1756.

valves for measuring the pressure drop across the filter-drier core during the clean-up process.

Heat pump systems frequently have cramped piping in the very compact cabinet. The C-140 Series Catch-All is not a reversible filter-drier, therefore it must be installed in the common suction line. The service technician needs a short suction line filter-drier to fit in this restricted space. The C-140 Series Catch-All meets this essential need.

CONSTRUCTION

The core is held in place by a leaf spring at the inlet end. Filtration occurs on the core

surface, and a 100 mesh screen is used as a safety filter at the outlet end. The screen and core are sealed to the shell wall with a fiberglass pad. The threaded valve core for each access valve is supplied in a separate envelope. This way the heat sensitive valve core can be installed after brazing the Catch-All into the line. The Catch-All utilizes copper connections for ease in brazing with any type of alloy.

While designed for use in the suction line these filter-driers may be installed in the liquid line, if desired under unusual circumstances. The performance of these filter-driers in the liquid line is similar to the popular C-160 Series Catch-All Filter-Driers.

Catch-All[®] Compact Style Suction Line Filter-Driers



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 Maximum Rated Pressure of 650 psi / 44.8 bar

Flow Capacity*

Tons • °F • psi

TYPE	REFRIGERANT																	
	134a			22					407A			407C	407F			410A		
	EVAPORATOR TEMPERATURE °F																	
	0	20	40	-40	-20	0	20	40	-40	-20	0	20	40	-40	-20	0	20	40
	PRESSURE DROP – psi																	
1	1-1/2	2	1/2	1	1-1/2	2	3	1/2	1	1-1/2	2	3	1/2	1	1-1/2	2	3	
C-144-S-TT-HH	0.5	0.8	1.3	0.2	0.4	0.9	1.3	2.2	0.2	0.4	0.9	1.2	2.1	0.2	0.4	0.9	1.4	2.7
C-145-S-TT-HH	0.8	1.3	2.1	0.4	0.8	1.4	2.2	3.6	0.4	0.8	1.3	2.1	3.5	0.4	0.9	1.5	2.3	4.6
C-146-S-TT-HH	1.1	1.8	2.9	0.6	1.2	2.0	3.0	4.9	0.6	1.2	1.9	3.0	4.8	0.6	1.3	2.1	3.2	6.2
C-147-S-TT-HH	1.3	2.1	3.2	0.7	1.3	2.2	3.3	5.4	0.7	1.3	2.1	3.2	5.3	0.7	1.4	2.3	3.5	6.8
C-149-S-TT-HH	1.6	2.7	4.2	0.9	1.7	2.9	4.4	7.1	0.8	1.7	2.8	4.3	7.0	0.9	1.9	3.1	4.7	9.0

Flow Capacity*

kW • °C • bar

TYPE	REFRIGERANT																	
	134a			22					407A			407C	407F			410A		
	EVAPORATOR TEMPERATURE °C																	
	-20	-5	0	-40	-30	-20	-5	5	-40	-30	-15	-5	5	-40	-30	-15	-5	5
	PRESSURE DROP – bar																	
0.07	0.10	0.14	0.03	0.07	0.10	0.14	0.21	0.03	0.07	0.10	0.14	0.21	0.03	0.07	0.10	0.14	0.21	
C-144-S-TT-HH	1.8	2.8	4.6	0.7	1.4	3.2	4.6	7.7	0.7	1.4	3.0	4.4	7.4	0.8	1.5	3.3	4.9	9.5
C-145-S-TT-HH	2.8	4.6	7.4	1.4	2.8	4.9	7.7	12.6	1.3	2.8	4.7	7.4	12.3	1.5	3.1	5.2	8.0	16.1
C-146-S-TT-HH	3.9	6.3	10.2	2.1	4.2	7.0	10.5	17.2	2.0	4.1	6.8	10.4	16.8	2.2	4.5	7.4	11.2	21.8
C-147-S-TT-HH	4.6	7.4	11.2	2.5	4.6	7.7	11.6	19.0	2.3	4.6	7.5	11.4	18.6	2.5	5.0	8.2	12.4	23.9
C-149-S-TT-HH	5.6	9.5	14.7	3.2	6.0	10.2	15.4	24.9	3.0	5.9	9.9	15.1	24.6	3.3	6.6	10.8	16.4	31.6

Rated in accordance with ANSI/AHRI Standard 730.

*The water capacity and acid capacity of the C-140 Series are comparable to the popular C-160-S-T-HH Series Filter-Drier. Specific values are not listed since the industry has no standard method for testing the water capacity or acid removal ability in the suction line of refrigerant systems. The flow capacity information above permits selecting C-140 Series Catch-Alls for various conditions with confidence.