

# NOTES

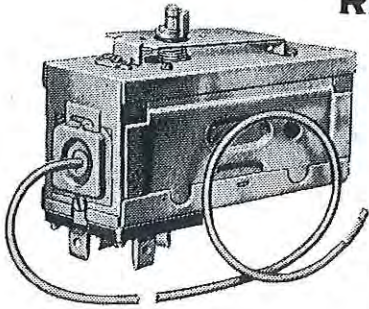
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## SPEEDY SERVICE

WE ARE ORGANIZED TO MAKE PROMPT DELIVERY FROM OUR VAST STOCKS. WHETHER YOUR ORDER IS SMALL OR LARGE WE WILL EXERCISE GREAT CARE IN SELECTING AND PACKING YOUR ORDER. MORE THAN 90% OF ALL ORDERS RECEIVED ARE DESPATCHED THE SAME DAY. WE AIM TO KEEP YOU AND YOUR JOB MOVING SATISFACTORILY.

# DEFROST TIMERS — DOMESTIC

## RANCO TYPE E11, E13



The E11 and E13 Timers are an automatic defrost control initiating the defrost cycle by time and terminating the defrost cycle by temperature. It can be used in both domestic and commercial refrigeration applications where regular defrosting is required.

**Features** :: The Controls feature both time-safe and fail-safe characteristics. Time-safe feature provides defrost termination automatically after the in-built time-safe period if defrost temperature is not reached in that period. Fail-safe feature of power element prevents defrost initiation when power element loses its charge or becomes broken.

Cat. No.	Timer Part No.	Availability	Defrosts per 24 Hrs.	Time Safe Mins.	Initiation		Terminate		Cap. Length ins.	Manuf. Part No.	Make of Refrig.
					°C	°F	°C	°F			

### E11 ELECTRIC ELEMENT DEFROST TIMER

15922	E11-2403	Ex. Overseas	4	22½	-1.7	29	7.2	45	48	KA36855	Kelvinator
15923	E11-2515	Ex. Overseas	2	45	-1.7	29	5.6	42	72	—	Gen. Elect/Kirby
1597	E11-2526	Ex. Overseas	1	45	-1.7	29	5.6	42	36	—	Gen. Elect/Kirby
1599	E11-2533	Ex. Overseas	3	45	-2.8	27	5.6	42	84	KA28974	Kelvinator
15910	E11-2534	Ex. Overseas	3	45	-5.0	23	3.3	38	84	KA28917	Kelvinator
15911	E11-2538	Ex. Overseas	3	45	-2.8	27	5.6	42	36	KA29295	Kelvinator
15924	E11-2546	Ex. Overseas	2	30	-1.1	30	8.9	48	84	7443898	Frigidaire

### E13 HOT GAS DEFROST TIMER

15915	E13-2530	Ex. Overseas	1	60	-1.7	29	7.8	46	36	MRT-131	Gen. Elect/Kirby
15914	E13-2532	Ex. Overseas	1	60	-2.8	27	5.6	42	60	5030-01-051	Simpson-Pope
15913	E13-2539	Ex. Overseas	1	45	-1.7	29	8.9	48	76	7395541	Frigidaire
15919	E13-2545	Ex. Overseas	1	60	-1.7	29	5.6	42	36	—	Gen. Elect/Kirby



## PARAGON NO. 499

Paragon No. 499 Domestic Refrigerator Defrost Control can be wired for electric heat or hot gas defrosting.

The terminal board accommodates a female plug for ease of connection and assembly by the refrigerator manufacturer. The control is rated 1/3 HP - 5-Amp - 240 V. AC.

### TIME INITIATING TIME TERMINATING MODELS

CAT. NO.	TIMER MODEL	DEFROST PERIOD AND TOTAL CYCLE TIME	MAKE OF REFRIGERATOR
15951	L769 - 21	21 Mins. every 12 Hours	MALLEYS
15952	A769 - 21	21 Mins. every 6 Hours	KELVINATOR
15953	NK539 - 21	21 Mins. every 4 Hours	KELVINATOR
15954	GK539 - 21	21 Mins. every 6 Hours	METTERS
15955	NF539 - 4	30 Mins. every 12 Hours	WESTINGHOUSE
15956	F769 - 21	25 Mins. every 6 Hours	WESTINGHOUSE

NAME IT AND WE'VE PROBABLY GOT IT IN OUR WIDELY ASSORTED STOCK

# DEFROST TIMERS - DOMESTIC & COMMERCIAL

## TRI MODEL DFS TIME INITIATING - TEMPERATURE TERMINATING MODELS

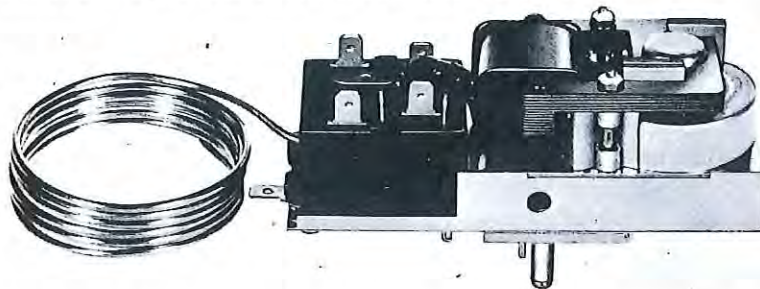
(PREVIOUSLY KNOWN AS JAGA)

**FUNCTION:** Initiates defrost operation at a fixed cycle and terminates thermostatically when predetermined temperature is reached.

If the defrost termination temperature is not reached after a certain period of time, defrost operation is automatically terminated by the function of timer at a predetermined time. (Time Safe).

Defrost initiation time can be manually set at the correct time of day, when the refrigeration unit is put in operation or after power failure.

**FEATURES:** Timer combined with thermostat for the most advanced defrost system for household and commercial refrigerators, freezers and other refrigerating units. Applicable for any defrost system such as off compression cycle, electric heater and hot gas system.



1

Cat. No.	Timer Model	No. Defrosts in 24 Hours	Termination Temperature	Termination by Time Cam	Capillary Length	Customer	Part No.
15937	DFS51A	1	5° ± 1.5° (41°F)	60 mins. ± 10 mins.	42"	Westinghouse Astor Malley's Whirlpool G.E. Kirby	739332 4087 - 002 - 02 3293 - 753 8 - 0100515 - 602
15938	DFS51GC	1	10° ± 1.7°C (50°F)	60 mins. ± 10 mins.	90"	Metters	02 - 033 - 430
15940	DFS54DB	3	4.4° ± 2°C (40°F)	45 mins. ± 8 mins.	72" *	Simpson-Pope	574 - 1 - 72
15939	DFS55B	4	7.2° ± 2°C (45°F)	20 mins. ± 5 mins.	48"	Kelvinator	KA39531
15948	DFS53A	6	7.8° ± 1.5°C (46°F)	20 mins. ± 7 mins.	48" *	Commercial Applications	
15945	DFS53C	6	5° ± 1.5°C (41°F)	30 mins. ± 7 mins.	84"	Commercial Applications	
15949	DFS55C	4	5° ± 1.5°C (41°F)	20 mins. ± 5 mins.	60"	Commercial Applications	
15946	DFS54	3	5° ± 1.5°C (41°F)	30 mins. ± 7 mins.	60"	Commercial Applications	

\* Cross Ambient Bulb

Initiating Temperature All Timers: -3°C Min (26.6°F)

## SANKYO MODEL DFC

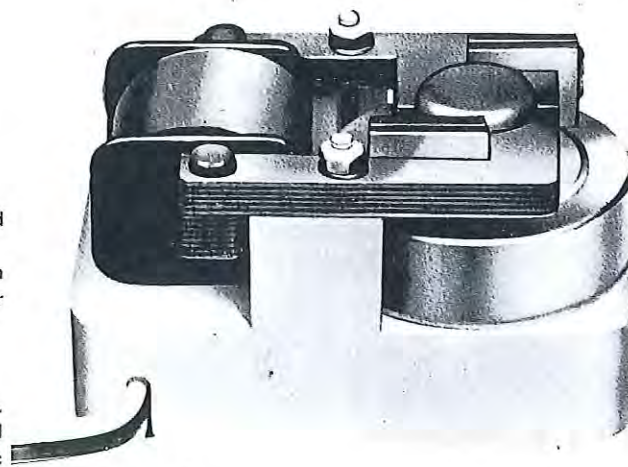
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TIME INITIATING - TIME TERMINATING MODELS

**FUNCTION:** Automatically initiates defrost period at a preset time and terminates at completion of fixed duration defrost cycle.

Defrost initiation time can be set manually to required time of day, when refrigeration unit is installed, to suit the loading of the unit or after power failure.

**FEATURES:** Heavy duty, long life and reliable performance at low cost. Wide application for household and commercial refrigerators, freezers and electrical appliances, or any other application requiring an automatic "switch on" and "switch off" function.



Cat. No.	Timer Model	Defrosts in 24 Hours	Defrost Period & Total Cycle Time	Customer	Part No.
15926	DFC4H14B	6	14 mins. ± 2 mins. every 4 hours	Kelvinator	KA42756
15927	DFC6H20A	4	20 mins. ± 2.5 mins. every 6 hours.	Astor	4087 - 010 - 01
15930	DFC6H25D	4	25 mins. ± 2.5 mins. every 6 hours	Astor	4087 - 020 - 00
15935	DFC8H20G	3	20 mins. ± 3.5 mins. every 8 hours	G.E. Kirby	8-0100515-601
15928	DFC12Q5	2	30 mins. ± 5 mins. every 12 hours	Frigidaire	7445336
15929	DFC12Q5F	2	30 mins. ± 5 mins. every 12 hours	Westinghouse	743022
15931	DFC12Q6	4	25 mins. ± 2.5 mins. every 6 hours	Westinghouse	742537
15932	DFC12Q6E	4	25 mins. ± 2.5 mins. every 6 hours	Westinghouse	742537
15936	DFC24H30A	1	30 mins. ± 5 mins. every 24 hours	Frigidaire	2827816

# NOTES


## PICK-UP COUNTERS EVERYWHERE

AS WE GO TO PRESS THERE ARE 30 LARGE WAREHOUSES THROUGHOUT AUSTRALIA WITH STOCK FOR IMMEDIATE PICK-UP INCLUDING FAST COUNTER SERVICE. THE COMPLETE LISTING IS AT THE FRONT OF THIS CATALOGUE. IN MOST CASES THESE BRANCHES ARE IN LOCATIONS WITH FREE PARKING.

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**SECTION 2 INDEX**

**ON REVERSE SIDE**

## REPLACEABLE FILTER - DRIER CORES/BLOCKS



### REPLACEABLE FILTER - DRIER BLOCKS

**D- 48 Standard Capacity Block:** This block provides system protection from water and acids in the majority of general purpose applications.

**H- 48 High Capacity Block:** A filter-drier block similar to the D- 48 except with much greater water capacities for critical applications or where system conditions indicate the presence of an abnormal amount of water.

**H- 100 High Capacity Block:** A filter-drier block with high water capacities designed to work on both liquid and suction line applications.

**W- 48 Burnout Block:** A filter-drier block possessing water capacities comparable to the H- 48 high capacity block, and also featuring activated carbon to afford optimum contaminant cleanup following a motor burnout. This ingredient also provides wax and resin control on R-22 and R-502 low temperature applications.

**W- 100 Burnout Block:** The filter-drier block possessing high water capacities and including activated carbon for rapid system cleanup following a motor burnout. This model is equally effective for control of waxes on low temperature R-22 and R-502 service.

Cat. No.	Type	Description	Filter Area		Suits Nominal Shell Diam.		Water Capacity — Drops *					
							R12		R22		R502	
							24°C (75°F)	52°C (125°F)	24°C (75°F)	52°C (125°F)	24°C (75°F)	52°C (125°F)
16911	D - 48	Std. Capacity	445	69	115	4½	774	340	293	223	340	223
1691	H - 48	High Capacity	445	69	115	4½	964	558	524	436	558	436
1692	H - 100	High Capacity	710	110	153	6	870	1050	980	810	1050	810
1693	W - 48	Burnout Block	445	69	115	4½	775	515	480	400	515	430
1694	W - 100	Burnout Block	710	110	153	6	1750	1120	1000	810	1110	875

\* Water capacities are based on an end point dryness of 15 PPM for R12, 60 PPM for R22 and 30 PPM for R502. 20 Drops of Water = 1 gram = 1 cc.

## HENRY 'DRI-COR' Replaceable Filter-Drier Cores

CAT. NO.	TYPE	DESCRIP.	CORE LENGTH	TO SUIT SHELL DIA.
1695	848C	Std. Dri-Cor	120.7 mm	139.7 mm
1696	848CM	Hi-Cap Dri-Cor	(4¾")	(5½")

### REPLACEABLE CORES

Fully activated moulded cores. Spring assembled. All Henry Refrigerant Filter-Drier Cores are fully re-activated, hermetically sealed in key operated metal containers. Each container contains new sealing gasket.

Filter-Drier flow capacity is the same for Standard Dri-Cor and Hi-Capacity Dri-Cor Filter Driers.

For extra Drying Capacity the Hi-Capacity Cores are required.

**CAUTION :** Since excessive pressure drop in the Filter-Drier will reduce system efficiency and can damage refrigerant vapour cooled motor-compressors, it is extremely important to know when to change cores.

Maximum recommended pressure drops are shown in the Table.

**IMPORTANT :** Following a motor burn-out it is necessary to use a Type 848 CM Hi-Capacity Dri-Cor Filter-Drier Core for cleaning up the system.

MAXIMUM RECOMMENDED PRESSURE DROP DURING CLEAN-UP			
Refrigerant	APPLICATION		
	AIR COND.	COMMERC.	LOW TEMP
R12 & R500	55kPa(8psi)	41kPa(6psi)	14kPa(2psi)
R22 & R502	96kPa(14psi)	62kPa(9psi)	21kPa(3psi)



## REPLACEABLE KORES

CAT. NO.	TYPE	DIMENSIONS		
		Length	Int. Diam.	Ext. Diam.
1698	KMP - 48B	139.7 mm	44.5 mm	95.3 mm
1699	PFE - 48	(5½")	(1¾")	(3¾")

### FILTER DRIER KORE KMP - 48B

The KMP Hi-Capacity Filter Kore can be used with all 4¾" O.D. shells. It features low pressure drop, and maximum moisture and acid capacity. Shipped in hermetically sealed can ready for installation.

### CERAMIC FILTER ELEMENT PFE - 48

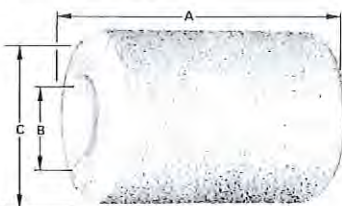
The KMP Hi-Capacity Filter Kore Element can be used with all 4¾" O.D. shells. It provides extended surface area and the patented in-depth ceramic filters. Filtration to 10 microns is obtained with negligible pressure drop.

### PARKER FILTER DESICCANT CORE PCW - 48 High Capacity Core

This hi-efficiency desiccant filter core is designed exclusively for liquid line use only. Shipped in hermetically sealed cans, complete with triple gaskets for interchangeability with all other 4½" shell diameters.



## Replaceable Filter-Cores



CAT. NO.	TYPE	DIMENSIONS — mm (ins.)		
		A Overall Length	B Hole Diam.	C Outside Diam.
16910	PCW - 48	139.7 (5½")	44.5 (1¾")	95.3 (3¾")

**Heldon**

**FILTER - DRIER CORES**  
Refer Page 174

**HUDSON**

**DRIER CORE**  
Refer Page 176



# LIQUID LINE DRIERS

## TYPE DX FILTER DRIERS with Solid Core



### APPLICATION

The Filter Drier Type DX with solid core is designed for use in refrigeration and air-conditioning systems for all normal fluorinated refrigerants.

### DX effectively removes –

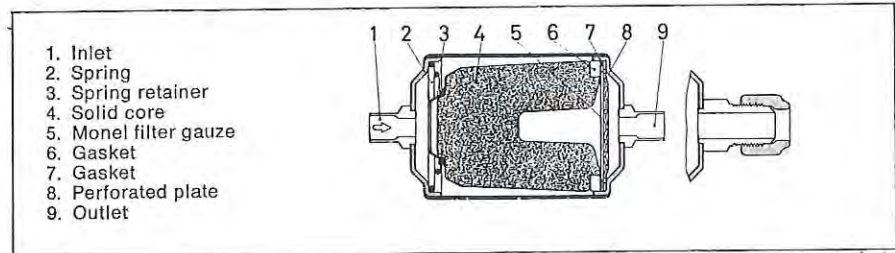
**Moisture** - The solid core adsorbs and retains the moisture present in the refrigeration system so that ice formation in the expansion valve is avoided.

**Harmful acids** - The solid core retains the harmful acids formed in the refrigeration system so that motor burn-out due to corrosion is prevented.

**Foreign matter, sludge, and oil decomposition products** - The solid core removes this matter by depth filtration, thus ensuring that the refrigeration system will not stop due to obstruction of valve orifices, pressure-equalizing holes, capillary tubes, and similar equipment.

### Design

The filter drier has a relatively large diameter resulting in a suitably low velocity of flow and a resultant small pressure drop. Formation of powder is eliminated since the solid core particles cannot move relative to each other.



### Technical Data, Code Nos., and Capacities

Refrigerants : R12, R22, R502  
 Test pressure : 2760kPa (400 psig)

Cat. No.	Type DX	Conn. M.Fl.	Code No.	Capacity of refrigeration and deepfreeze systems in kW (tons)			Capacity of air-conditioning systems with a separate refrigeration compressor in kW (tons)			Capacity of an air-conditioning unit with a factory-installed refrigeration compressor in kW (tons)		
				R12	R22	R502	R12	R22	R502	R12	R22	R502
1701	032	1/4	23U1200	0.95 (0.27)	0.95 (0.27)	0.95 (0.27)				2.64 (0.75)	3.52 (1)	2.64 (0.75)
1702	052	1/4	23U1201	1.16 (0.33)	1.16 (0.33)	1.16 (0.33)	2.64 (0.75)	2.64 (0.75)	2.64 (0.75)	3.52 (1)	3.52 (1)	3.52 (1)
1703	053	3/8	23U1202	1.16 (0.33)	1.16 (0.33)	1.16 (0.33)	3.52 (1)	5.28 (1.5)	3.52 (1)	7.03 (2)	7.03 (2)	7.03 (2)
1704	082	1/4	23U1203	1.76 (0.5)	1.76 (0.5)	1.76 (0.5)	2.64 (0.75)	3.52 (1)	2.64 (0.75)	3.52 (1)	3.52 (1)	3.52 (1)
1705	083	3/8	23U1204	3.52 (1)	3.52 (1)	3.52 (1)	7.03 (2)	7.03 (2)	7.03 (2)	10.6 (3)	14.1 (4)	8.79 (2.5)
1706	084	1/2	23U1205	3.52 (1)	3.52 (1)	3.52 (1)	7.03 (2)	7.03 (2)	7.03 (2)	14.1 (4)	17.6 (5)	14.1 (4)
1707	162	1/4	23U1206	3.52 (1)	5.28 (1.5)	2.64 (0.75)	3.52 (1)	5.28 (1.5)	3.52 (1)			
1708	163	3/8	23U1207	7.03 (2)	7.03 (2)	7.03 (2)	10.6 (3)	10.6 (3)	7.03 (2)	14.1 (4)	17.6 (5)	10.6 (3)
1709	164	1/2	23U1208	7.03 (2)	10.6 (3)	7.03 (2)	10.6 (3)	14.1 (4)	10.6 (3)	17.6 (5)	26.4 (7.5)	17.6 (5)
17010	165	5/8	23U1209	7.03 (2)	10.6 (3)	7.03 (2)	14.1 (4)	17.6 (5)	14.1 (4)	26.4 (7.5)	35.2 (10)	26.4 (7.5)
17011	303	3/8	23U1210	10.6 (3)	14.1 (4)	7.03 (2)	10.6 (3)	14.1 (4)	10.6 (3)			
17012	304	1/2	23U1211	14.1 (4)	17.6 (5)	10.6 (3)	17.6 (5)	17.6 (5)	17.6 (5)	26.4 (7.5)	26.4 (7.5)	17.6 (5)
17013	305	5/8	23U1212	17.6 (5)	26.4 (7.5)	17.6 (5)	26.4 (7.5)	26.4 (7.5)	17.6 (5)	35.2 (10)	53 (15)	26.4 (7.5)

REFER NEXT PAGE FOR ADDITIONAL TECH. DATA, DIMENSIONS AND WEIGHTS

OUR COMPLETE INVENTORY ASSURES PROMPT SERVICE





**TYPE DX FILTER DRIERS with Solid Core**

**Technical Data**

Type DX	Solid core				Refrigerant liquid capacity l/min at $\Delta p = 13.7 \text{ kPa}$	Refrigerant liquid capacity IMPgal/min at $\Delta p = 2 \text{ psi}$	R 12		R 22		R 502	
	surface		volumen				Drying capacity in kg refrigerant at $+25^\circ\text{C}$ (77°F) 1)	Water capacity in drops 2)	Drying capacity in kg refrigerant at $+25^\circ\text{C}$ (77°F) 1)	Water capacity in drops 2)	Drying capacity in kg refrigerant at $+25^\circ\text{C}$ (77°F) 1)	Water capacity in drops 2)
	cm <sup>2</sup>	sq. in	cm <sup>3</sup>	cu. in								
032	50	7.8	50	3	2.8	0.62	3.9	45	1.5	30	1.6	30
052	75	11.6	80	5	2.9	0.64	7.3	80	2.9	60	3.2	65
053					7.9	1.7						
082	110	17	130	8	2.4	0.53	10.5	120	4.2	85	4.6	95
083					9.5	2.1						
084					11.6	2.5						
162					2.7	0.60						
163	180	28	250	16	10.2	2.2	27.9	305	11.0	220	12.2	240
164					12.8	2.8						
165					16.4	3.6						
303					11.9	2.6						
304	320	50	500	30	14.0	3.1	48.9	535	19.4	380	21.4	420
305					19.5	4.3						

1) The drying capacity is based on ARI standard 710-64 (Air-Conditioning and Refrigeration Institute), which is used when the actual water content is unknown.

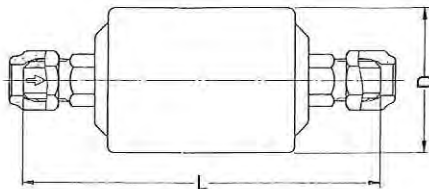
Moisture content in refrigerant after drying:  
 for R 12 = 565 PPM  
 for R 22 = 1050 PPM  
 for R 502 = 1020 PPM  
 PPM indicates mg H<sub>2</sub>O/kg refrigerant.

Moisture content in refrigerant after drying:  
 for R 12 = 15 PPM  
 for R 22 = 60 PPM  
 for R 502 = 30 PPM

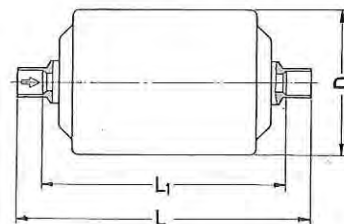
2) The water capacity refers to the maximum water quantity which the drier can retain at the temperature and state of equilibrium in question (20 drops ~ 1 g H<sub>2</sub>O).

**Dimensions and Weight**

DX with flare connection



DX with solder connection



Type	L		D		Weight	
	mm	in	mm	in	kg	lb
032	107	4.21	42	1.65	0.2	0.4
052	114	4.49	51	2	0.4	0.9
053	130	5.12	51	2	0.5	1.1
082	140	5.51	51	2	0.4	0.9
083	156	6.14	51	2	0.5	1.1
084	161	6.34	51	2	0.7	1.5
162	154	6.06	75	2.95	0.9	2.0
163	170	6.69	75	2.95	1.0	2.2
164	175	6.89	75	2.95	1.0	2.2
165	184	7.24	75	2.95	1.1	2.4
303	246	9.69	75	2.95	1.4	3.1
304	251	9.88	75	2.95	1.5	3.3
305	260	10.24	75	2.95	1.5	3.3

ORDERING – REFER TO PAGE 170 AND QUOTE CATALOGUE NO. OF ITEM REQUIRED

WE BELIEVE IN GOOD QUALITY PARTS AND EQUIPMENT, RELIABLE SERVICE, BACKED BY LARGE STOCK HOLDINGS SUPPLIED BY REPUTABLE AND TRUSTWORTHY COMPANIES

# TYPE EK-PLUS® LIQUID LINE FILTER - DRIERS



- ★ EK-PLUS — NEW — EVEN BETTER THAN THE FAMOUS "EK" FILTER-DRIER
- ★ POSITIVE SILENT CUSHION FLOW
- ★ POSITIVE LIQUID FILTRATION
- ★ POSITIVE "NO SWEAT" INSTALLATION
- ★ POSITIVE MOISTURE, ACID AND WAX REMOVAL

- Corrosion resistant finish
- Superior filtration from new labyrinth maze filter
- Built-in wax removal capability

### FEATURES

- Positive quick connections
- Full flow fittings for low pressure drop
- Rugged steel shells for shock resistance
- High moisture and acid removal capacity
- Safe Working Pressure: 3448 kPa (500 psig.)

### ACID REMOVAL

The removal of acid is important to the protection and prevention of breakdown. With its high quality modern blend of desiccants, the EK-PLUS filter-drier has the ability to provide positive system protection against acids. It adsorbs and retains harmful acids which is a must to ensure long system life.

### FILTRATION

A unique labyrinth type matrix captures and retains solid contaminants better than other filter designs. Better protection from dirt, scale, chips, varnish, flux, etc.

### MOISTURE REMOVAL

Assures a dry refrigerant system by adsorbing and retaining moisture. Carefully balanced blend of desiccants provide greater water capacities than conventional block-type driers.

### WAX REMOVAL

They have the significant feature of a carbon agent to meet the requirements of commercial refrigeration systems. Capable of removing excessive quantities of wax in the liquid refrigerant before entering and blocking the TX valve. This is made available at no sacrifice to the moisture and acid removal capability.

LIQUID LINE RATINGS FOR HERMETIC TYPE EK — PLUS FILTER — DRIERS

CAT. NO.	MODEL	UNIT SIZE	CONNECTIONS (INS.)	FLOW CAPACITY (1)						WATER CAP.(2) DROPS WATER (3)					
				kW @ 13.8 kPa			TONS @ 2 PSI			REFRIGERANT					
				P.D.			P.D.			LIQUID LINE TEMP. °C					
				R12	R22	R502	R12	R22	R502	24	52	24	52	24	52
1712	EK-032	3	1/4 SAE Flare	7.0	9.5	6.3	2.0	2.7	1.8	43	35	35	30	37	32
1715	EK-032S		1/4 ODF-3/8 ODM	10.9	14.1	9.5	3.1	4.0	2.7						
	EK-032FM		1/4 SAE Fl.-Female In	6.7	8.8	6.0	1.9	2.5	1.7						
	EK-032MF		1/4 SAE Fl.-Female Out	6.7	8.8	6.0	1.9	2.5	1.7						
	EK-033	5	3/8 SAE Flare	14.8	19.3	13.0	4.2	5.5	3.7	82	64	61	50	65	54
	EK-033S		3/8 ODF - 1/2 ODM	16.9	22.5	15.1	4.8	6.4	4.3						
1718	EK-052		1/4 SAE Flare	7.4	9.8	6.7	2.1	2.8	1.9						
1719	EK-052S		1/4 ODF - 3/8 ODM	10.9	14.4	9.5	3.1	4.1	2.7						
17110	EK-053	8	3/8 SAE Flare	17.6	22.9	15.1	5.0	6.5	4.3	140	106	98	80	106	87
17113	EK-053S		3/8 ODF - 1/2 ODM	21.8	28.8	19.0	6.2	8.2	5.4						
17114	EK-082		1/4 SAE Flare	7.7	10.2	6.7	2.2	2.9	1.9						
17115	EK-082S		1/4 ODF - 3/8 ODM	11.3	14.8	9.8	3.2	4.2	2.8						
17116	EK-083	16	3/8 SAE Flare	17.9	23.2	15.5	5.1	6.6	4.4	247	198	190	160	201	171
17117	EK-083S		3/8 ODF - 1/2 ODM	22.5	29.5	19.7	6.4	8.4	5.6						
17118	EK-084		1/2 SAE Flare	29.9	39.4	26.0	8.5	11.2	7.4						
17119	EK-084S		1/2 ODF - 5/8 ODM	32.0	42.2	28.1	9.1	12.0	8.0						
17120	EK-162	30	1/4 SAE Flare	7.7	10.2	6.7	2.2	2.9	1.9	481	378	361	300	425	323
	EK-162S		1/4 ODF - 3/8 ODM	11.3	14.8	9.8	3.2	4.2	2.8						
17121	EK-163		3/8 SAE Flare	18.3	24.3	16.2	5.2	6.9	4.6						
17122	EK-163S		3/8 ODF - 1/2 ODM	26.0	34.1	22.5	7.4	9.7	6.4						
17123	EK-164	41	1/2 SAE Flare	31.7	41.8	27.8	9.0	11.9	7.9	618	499	486	410	515	438
17124	EK-164S		1/2 ODF - 5/8 ODM	40.8	53.5	35.5	11.6	15.2	10.1						
17125	EK-165		5/8 SAE Flare	41.5	54.5	36.2	11.8	15.5	10.3						
17126	EK-165S		5/8 ODF	55.2	72.8	48.5	15.7	20.7	13.8						
	EK-167S	75	7/8 ODF	67.5	88.6	58.7	19.2	25.2	16.7	1485	1070	961	750	1050	833
17128	EK-303		3/8 SAE Flare	20.4	26.7	17.6	5.8	7.6	5.0						
	EK-303S		3/8 ODF - 1/2 ODM	27.4	35.9	23.9	7.8	10.2	6.8						
17129	EK-304		1/2 SAE Flare	35.9	47.1	31.3	10.2	13.4	8.9						
17130	EK-304S	41	1/2 ODF - 5/8 ODM	44.7	58.7	39.0	12.7	16.7	11.1	618	499	486	410	515	438
17131	EK-305		5/8 SAE Flare	45.7	60.1	40.1	13.0	17.1	11.4						
17132	EK-305S		5/8 ODF	60.8	80.2	53.1	17.3	22.8	15.1						
	EK-306S		3/4 ODF	65.8	86.5	57.3	18.7	24.6	16.3						
	EK-307S	75	7/8 ODF	68.6	90.4	60.1	19.5	25.7	17.1	1485	1070	961	750	1050	833
	EK-309S		1-1/8 ODF	79.8	104.8	69.6	22.7	29.8	19.8						
	EK-413		3/8 SAE Flare	20.7	27.1	17.9	5.9	7.7	5.1						
17136	EK-414		1/2 SAE Flare	40.8	53.5	35.5	11.6	15.2	10.1						
17137	EK-414S	41	1/2 ODF - 5/8 ODM	46.1	60.5	40.1	13.1	17.2	11.4	618	499	486	410	515	438
17138	EK-415		5/8 SAE Flare	56.3	73.9	49.2	16.0	21.0	14.0						
17139	EK-415S		5/8 ODF	64.4	84.8	56.3	18.3	24.1	16.0						
17140	EK-417S		7/8 ODF	87.6	115.4	76.7	24.9	32.8	21.8						
17141	EK-419S	75	1-1/8 ODF	93.6	123.1	81.9	26.6	35.0	23.3	1485	1070	961	750	1050	833
17142	EK-757S		7/8 ODF	87.6	115.4	76.7	24.9	32.8	21.8						
17143	EK-759S		1-1/8 ODF	93.6	123.1	81.9	26.6	35.0	23.3						

1. Per ARI Standard 710-80, flow rates are based on 30°C (86°F) liquid refrigerant temperature; -15°C (5°F) saturated temperature @ 8.6 grams/sec/kW (4.0 lbs/min/ton) for R-12; 6.3 grams/sec/kW (2.9 lbs/min/ton) for R-22; 9.5 grams/sec/kW (4.4 lbs/min/ton) for R-502.  
 2. Water capacities are based on : End Point Dryness of 15 Parts Per Million for R-12; End Point Dryness of 60 Parts Per Million for R-22; End Point Dryness of 30 Parts Per Million for R-502.  
 3. 20 drops of water = 1 gram = 1 cc.

REFER NEXT TECH. PAGE FOR ADDITIONAL TECHNICAL DATA, DIMENSIONS AND WEIGHTS  
 REFER PAGE 169 FOR ALCO REPLACEMENT FILTER-DRIER BLOCKS

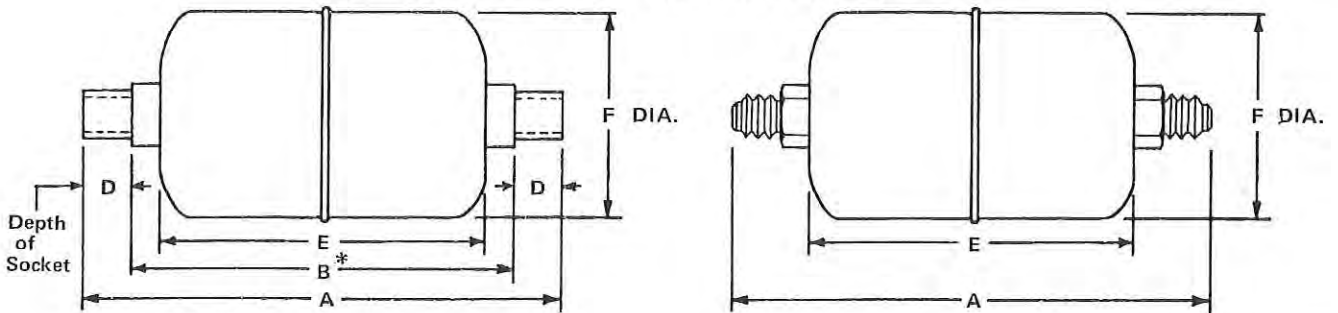


**TYPE EK-PLUS®**  
**LIQUID LINE FILTER - DRIERS**  
**TECHNICAL DATA**

**2**

REFRIGERANT LIQUID CONTAINED IN TYPE EK-PLUS FILTER-DRIERS						
UNIT SIZE	WEIGHT OF REFRIGERANT — GRAMS (OUNCES)					
	R12		R22		R502	
	LIQUID TEMPERATURE		LIQUID TEMPERATURE		LIQUID TEMPERATURE	
	24°C (75°F)	52°C (125°F)	24°C (75°F)	52°C (125°F)	24°C (75°F)	52°C (125°F)
3	82.2 ( 2.9)	73.7 ( 2.6)	73.7 ( 2.6)	65.2 ( 2.3)	76.5 ( 2.7)	68.0 ( 2.4)
5	189.8 ( 6.7)	172.8 ( 6.1)	172.8 ( 6.1)	155.8 ( 5.5)	178.5 ( 6.3)	158.6 ( 5.6)
8	257.8 ( 9.1)	235.1 ( 8.3)	235.1 ( 8.3)	212.5 ( 7.5)	243.6 ( 8.6)	215.3 ( 7.6)
16	495.8 (17.5)	450.4 (15.9)	450.4 (15.9)	405.1 (14.3)	467.4 (16.5)	413.6 (14.6)
30	813.0 (28.7)	739.4 (26.1)	739.4 (26.1)	665.7 (23.5)	767.7 (27.1)	679.9 (24.0)
41	1133.0 (40.0)	1031.0 (36.4)	1031.0 (36.4)	920.7 (32.5)	1071.0 (37.8)	946.2 (33.4)
75	2051.0 (72.4)	1864.0 (65.8)	1864.0 (65.8)	1677.0 (59.2)	1938.0 (68.4)	1714.0 (60.5)

**HERMETIC TYPE EK-PLUS DIMENSIONAL DATA**



\*B Indicates Laying Length

MODEL	CONNECTIONS SIZE & TYPE (Ins.)	DIMENSIONS — Inches					SHIPPING Wt. kg (lbs)
		A	B	D	E	F (1)	
EK-032	1/4 SAE Flare	4-3/8	—	—	2-9/16	1-5/8	0.23 (1/2)
EK-032S	1/4 ODF - 3/8 ODM	3-7/8	3-1/8	3/8			
EK-032FM	1/4 SAE Fl. - Female In	3 1/2 / 3 1/2	—	—			
EK-032MF	1/4 SAE Fl. - Female Out	—	—	—			
EK-033	3/8 SAE Flare	4-11/16	3-3/16	7/16	3	2-5/8	0.4 (7/8)
EK-033S	3/8 ODF - 1/2 ODM	4-1/16	—	—			
EK-052	1/4 SAE Flare	4-13/16	—	—			
EK-052S	1/4 ODF - 3/8 ODM	4-5/16	3-9/16	3/8			
EK-053	3/8 SAE Flare	5-1/8	—	—	3-13/16	2-5/8	0.57 (1 1/4)
EK-053S	3/8 ODF - 1/2 ODM	4-1/2	3-5/8	7/16			
EK-082	1/4 SAE Flare	5-5/8	—	—			
EK-082S	1/4 ODF - 3/8 ODM	5-1/8	4-3/8	3/8			
EK-083	3/8 SAE Flare	5-15/16	—	—	4-3/4	2-5/8	0.68 (1 1/2)
EK-083S	3/8 ODF - 1/2 ODM	6-3/16	—	—			
EK-084	1/2 SAE Flare	5-5/16	4-7/16	7/16			
EK-084S	1/2 ODF - 5/8 ODM	5-3/8	4-3/8	1/2			
EK-162	1/4 SAE Flare	6-9/16	5-5/16	3/8	7-1/2	3-1/16	1.7 (3 3/4)
EK-162S	1/4 ODF - 3/8 ODM	6-1/16	5-5/16	3/8			
EK-163	3/8 SAE Flare	6-7/8	5-5/16	3/8			
EK-163S	3/8 ODF - 1/2 ODM	6-1/4	5-3/8	7/16			
EK-164	1/2 SAE Flare	7-1/16	—	—	7-5/8	3-9/16	2.2 (4 3/4)
EK-164S	1/2 ODF - 5/8 ODM	6-5/16	5-5/16	1/2			
EK-165	5/8 SAE Flare	7-1/2	—	—			
EK-165S	5/8 ODF	6-1/2	5-1/4	5/8			
EK-167S	7/8 ODF	7-1/16	5-9/16	3/4	13-1/16	3-9/16	3.4 (7 1/2)
EK-303	3/8 SAE Flare	9-5/8	—	—			
EK-303S	3/8 ODF - 1/2 ODM	9	8-1/8	7/16			
EK-304	1/2 SAE Flare	9-7/8	—	—			
EK-304S	1/2 ODF - 5/8 ODM	9-1/8	8-1/8	1/2	7-1/2	3-1/16	1.7 (3 3/4)
EK-305	5/8 SAE Flare	10-5/16	—	—			
EK-305S	5/8 ODF	9-5/16	8-1/16	5/8			
EK-306S	3/4 ODF	9-11/16	8-7/16	5/8			
EK-307S	7/8 ODF	9-7/8	8-3/8	3/4	7-5/8	3-9/16	2.2 (4 3/4)
EK-309S	1-1/8 ODF	10-3/16	8-3/8	15/16			
EK-413	3/8 SAE Flare	9-3/4	—	—			
EK-414	1/2 SAE Flare	10	—	—			
EK-414S	1/2 ODF - 5/8 ODM	9-1/4	8-1/4	1/2	7-5/8	3-9/16	2.2 (4 3/4)
EK-415	5/8 SAE Flare	10-7/16	—	—			
EK-415S	5/8 ODF	9-7/16	8-3/16	5/8			
EK-417S	7/8 ODF	10	8-1/2	3/4			
EK-419S	1-1/8 ODF	10-5/16	8-1/2	15/16	13-1/16	3-9/16	3.4 (7 1/2)
EK-757S	7/8 ODF	15-7/16	13-15/16	3/4			
EK-759S	1-1/8 ODF	15-3/4	13-15/16	15/16			

(1) Dimension does not include weld bead.

ORDERING : REFER TO PAGE 171 AND QUOTE CATALOGUE NO. OF ITEM REQUIRED

# 171-b THE BFK SERIES BI-DIRECTIONAL HEAT PUMP FILTER-DRIER

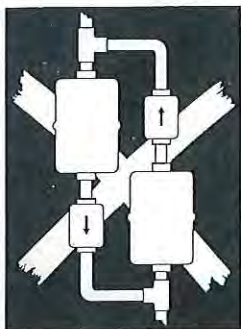
Another Alco  
Answer for the  
expanding heat-  
pump market.



- ★ Two basic sizes —
  - BKF 08 — Shell Length 98.4 mm (3-7/8")  
Shell Diam. 58.7 mm (2-5/16")
  - BKF 16 — Shell Length 115.9 mm (4-9/16")  
Shell Diam. 73 mm (2-7/8")

★ Dimensionally equivalent to Alco's conventional single-flow filter-driers.

Reduces complex piping and resulting costs



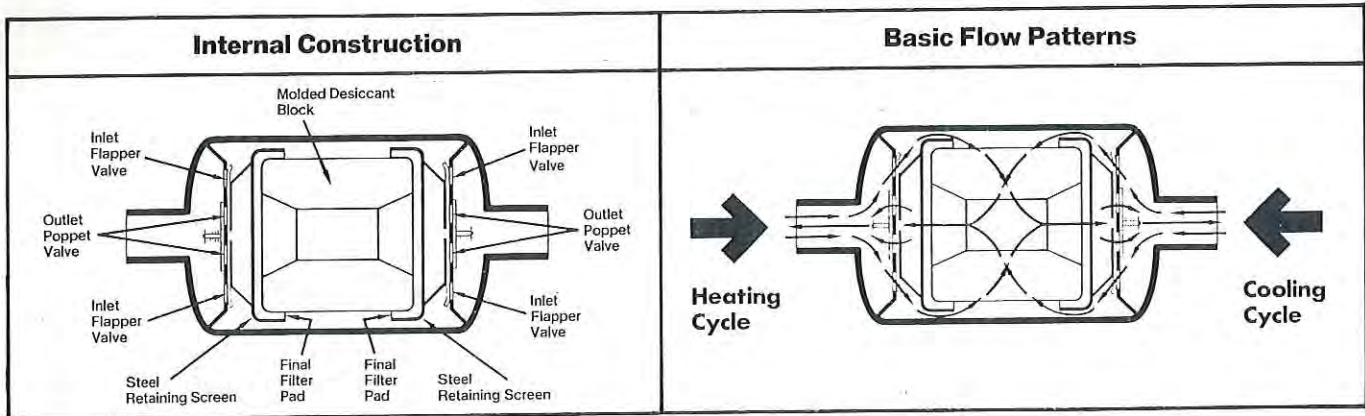
2 Conventional Driers  
2 Check Valves  
14 Braze Joints



REPLACED BY 1 BFK Filter-Drier  
2 Braze Joints

## FEATURES

- System protection in heating and cooling cycles summer and winter, with one compact unit.
- Internal check valves allow flow and filtration in either direction.
- Eliminates need for external check valves.
- Lightweight. These compact units may be installed in any position.
- Provides effective removal of moisture, acid and solid contaminants.
- Reduces system complexity and resulting costs.
- May be mounted in any position.
- Reduces compressor maintenance.



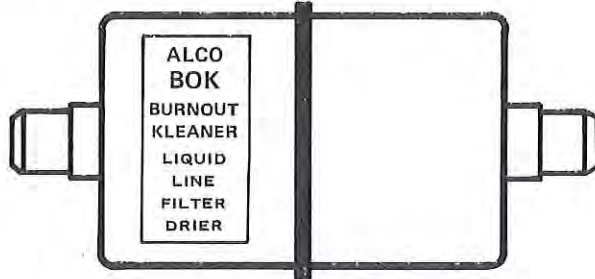
Unit Size	CAT. NO.	MODEL	Connections	Flow Capacity kW (Tons)/R22 @ 14kPa (2psi) P.D.		Water Capacity (Drops)	Acid Capacity (mg)	Filter Area cm <sup>2</sup> (ins <sup>2</sup> )	Desiccant Volume cm <sup>3</sup> (ins <sup>3</sup> )	Liquid Refrigerant Capacity by Weight gm (ozs) R22	
				kW	Tons					24°C (75°F)	52°C (125°F)
08	17151	BKF 083	3/8" SAE	22.5	6.4	89	2050	106.5 (16.5)	75.4 (4.6)	218.1 (7.7)	195.5 (6.9)
		BKF 083S	3/8" ODF	25.3	7.2						
	17152	BKF 084	1/2" SAE	32.0	9.1						
		BKF 084S	1/2" ODF	33.4	9.5						
	17153	BKF 085	5/8" SAE	38.7	11.0						
		BKF 085S	5/8" ODF	40.4	11.5						
16	17154	BKF 163	3/8" SAE	22.9	6.5	133	6800	182.6 (28.3)	163.9 (10.0)	402.3 (14.2)	359.8 (12.7)
		BKF 163S	3/8" ODF	26.0	7.4						
	17155	BKF 164	1/2" SAE	38.3	10.9						
		BKF 164S	1/2" ODF	40.4	11.5						
	17156	BKF 165	5/8" SAE	41.5	11.8						
		BKF 165S	5/8" ODF	43.3	12.3						



# BOK 171-c BURNOUT KLEANER

## LIQUID LINE FILTER — DRIER

Alco's "BOK" Burnout Kleaner Series are specifically designed to protect the refrigerant system from the liquid and solid contaminants that are present following a compressor burnout. They incorporate a moulded block specially blended for maximum acid and moisture removal and a special agent to control waxes and harmful resins.



### FEATURES

- Full Flow Fittings For Low Pressure Drop.
- Corrosion Resistant Shell Finish and Fittings.
- Rugged Steel Shell (Shock Resistant Construction).
- Extra Moisture and Acid Removal Capacity.
- Safe Working Pressure 3450 kPa (500 psig).
- Burst Pressure 17240 kPa (2500 psig).

### WAX REMOVAL

The BOK series have the significant feature of a carbon agent to meet the latest special requirements of commercial refrigeration systems. This agent is capable of removing excessive quantities of wax in the liquid refrigerant before it is able to enter and block the expansion valve. This added bonus protection is made available at no sacrifice to the moisture and acid removal capabilities.

### FILTRATION

The geometry of the block exposes maximum surface area to the refrigerant with the flow directed and balanced. This provides even distribution of filtered material resulting in a minimum pressure drop and at the same time offers excellent protection against harmful solid contaminants (dirt, scale, chips, etc.) in the refrigerant system.

### MOISTURE REMOVAL

The BOK high capacity block was designed for the tough moisture problems. Molecular sieve used in the BOK adsorbs and retains water quantities far in excess of other commonly used desiccants.

### ACID REMOVAL

The removal of acid is important in the prevention of motor winding deterioration and system breakdown. With its high quality blend of desiccants, the BOK filter-drier has the ability to provide positive system protection against acids which is a must to ensure long system life. It adsorbs and retains harmful acids which is essential in cleaning up the system following a compressor burnout.

LIQUID LINE RATINGS FOR SEALED TYPE BOK BURNOUT KLEANER

CAT. NO.	Model	Unit Size	Connections	Flow Capacity (1)						Water Capacity (2) Drops Water (3)						Filter Area cm <sup>2</sup> (Ins. <sup>2</sup> )	
				kW @ 13.8 kPa Press. Drop			Tons @ 2 psi Press. Drop			R12		R22		R502			
				R12	R22	R502	R12	R22	R502	24	52	24	52	24	52		
				Liquid Line Temperature °C													
17160	BOK-082	8	1/4" SAE	6.0	7.7	5.3	1.7	2.2	1.5	142	83	78	65	83	65	219.4 (34)	
17161	BOK-083		3/8" SAE	15.8	20.7	14.1	4.5	5.9	4.0								
17162	BOK-162	16	1/4" SAE	6.0	7.7	5.3	1.7	2.2	1.5	274	152	142	116	152	116		
17163	BOK-163		3/8" SAE	17.6	23.2	15.8	5.0	6.6	4.5								
	BOK-163S		3/8" ODF x 1/2" ODM	23.9	31.3	21.5	6.8	8.9	6.1								
17164	BOK-164		1/2" SAE	35.2	46.1	31.3	10.0	13.1	8.9								
	BOK-164S		1/2" ODF x 5/8" ODM	42.2	55.2	37.6	12.0	15.7	10.7								
17165	BOK-165		5/8" SAE	52.7	69.3	47.1	15.0	19.7	13.4								
	BOK-165S	5/8" ODF	52.7	69.3	47.1	15.0	19.7	13.4									
17166	BOK-303	30	3/8" SAE	17.6	23.2	15.8	5.0	6.6	4.5	499	284	265	221	284	221		354.8 (55)
17167	BOK-304		1/2" SAE	40.8	53.5	36.2	11.6	15.2	10.3								
	BOK-304S		1/2" ODF x 5/8" ODM	44.7	58.4	39.7	12.7	16.6	11.3								
17168	BOK-305		5/8" SAE	55.6	72.8	49.6	15.8	20.7	14.1								
	BOK-305S		5/8" ODF	59.8	78.4	53.5	17.0	22.3	15.2								
17169	BOK-414	41	1/2" SAE	42.2	55.2	37.6	12.0	15.7	10.7	643	368	345	287	368	287	438.7 (68)	
17170	BOK-415		5/8" SAE	66.8	87.9	59.8	19.0	25.0	17.0								
	BOK-417S		7/8" ODF	82.6	106.9	72.8	23.5	30.4	20.7								

- (1) Flow Capacities based on 30°C (86°F) liquid refrigerant temperature, -15°C (5°F) saturated temperature, 8.6 grams/sec/kW (4.0 lbs/min./ton) for R12; 6.3 grams/sec/kW (2.9 lbs/min./ton) for R22; 9.5 grams/sec/kW (4.4 lbs/min./ton) for R502.
- (2) Water capacities are based on an End Point Dryness of 15 ppm for R12; 60 ppm for R22 and 30 ppm for R502.
- (3) 20 drops of water = 1 gram = 1cc.

SUGGESTED SELECTION GUIDE FOR SEALED TYPE BOK BURNOUT KLEANER

BOK MODEL	NOMINAL SYSTEM kW and Tons																	
	REFRIGERATION						AIR - CONDITIONING											
	Low Temp./Commercial						Field Replacement						O.E.M. Self-Contained					
	R12		R22		R502		R12		R22		R502		R12		R22		R502	
kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	
BOK-082	2	1/2	2	1/2	2	1/2	3	3/4	3 1/2	1	3	3/4	3 1/2	1	5 1/2	1 1/2	3 1/2	1
BOK-083	3 1/2	1	3 1/2	1	3 1/2	1	7	2	7	2	7	2	11	3	14	4	11	3
BOK-162	3 1/2	1	5 1/2	1 1/2	3	3/4	3 1/2	1	5 1/2	1 1/2	3 1/2	1	7	2	9	2 1/2	7	2
BOK-163/163S	7	2	7	2	7	2	11	3	11	3	7	2	14	4	18	5	11	3
BOK-164/164S	7	2	11	3	7	2	11	3	18	5	11	3	18	5	26	7 1/2	18	5
BOK-165/165S	7	2	11	3	7	2	18	5	18	5	14	4	26	7 1/2	35	10	26	7 1/2
BOK-303	11	3	11	3	7	2	11	3	14	4	11	3	14	4	18	5	14	4
BOK-304/304S	11	3	18	5	11	3	18	5	26	7 1/2	18	5	26	7 1/2	26	7 1/2	18	5
BOK-305/305S	14	4	18	5	18	5	26	7 1/2	26	7 1/2	18	5	35	10	53	15	26	7 1/2
BOK-414	18	5	18	5	18	5	18	5	26	7 1/2	18	5	26	7 1/2	26	7 1/2	18	5
BOK-415	26	7 1/2	26	7 1/2	26	7 1/2	26	7 1/2	35	10	18	5	35	10	53	15	26	7 1/2
BOK-417S	35	10	35	10	26	7 1/2	35	10	35	10	26	7 1/2	53	15	53	15	44	12 1/2

DIMENSIONS: Identical with the Alco "EK" Series for the same Model Numbers — Refer Tech. Page 171-a

## TYPE ASF SUCTION LINE FILTERS, TYPE ASD SUCTION LINE FILTER-DRIERS "THE COMPRESSOR PROTECTORS" FOR R12 - R22 - R500 - R502

### TYPE ASF SUCTION LINE FILTERS

Modern compressor design demands cleaner systems for proper operation. Contaminants, such as metal chips, burrs, copper or iron oxides, varnish, flux and dirt, must not be allowed to enter the compressor motor windings or crankcase.

Compressor manufacturers recommend the installation of suction line filters to protect their equipment. Alco suction line filters installed near the compressor suction provide this pollution protection.



### TYPE ASD SUCTION LINE FILTER - DRIERS

Alco Suction Line Filter-Driers have all the features of suction filters plus the added capability of moisture and acid removal. The filter area is identical to the ASF models.

A generous blend of carefully selected desiccants is added to the ASD models to provide maximum moisture and acid removal. This includes protection from moisture and organic or inorganic acids resulting from burnouts or chemical changes in the system refrigerant or oil.

ASD models are specially suited for system clean-up after a burnout, or when major repair work has been performed.



CAT. NO.	ASF SUCTION LINE FILTER	CAT. NO.	ASD SUCTION LINE FILTER-DRIER	CONN.	FILTER AREA		EFFECTIVE DESICCANT VOLUME	
					cm <sup>2</sup>	ins <sup>2</sup>	cm <sup>3</sup>	ins <sup>3</sup>
	ASF 21S3-V		ASD 21S3-V	3/8" ODF	135.5	21	122.9	7.5
	ASF 21S4-V		ASD 21S4-V	1/2" ODF	135.5	21	122.9	7.5
1721	ASF 35F5-V	1728	ASD 35F5-V ✓	5/8" SAE	225.8	35	204.8	12.5
1722	ASF 35S5-V	1729	ASD 35S5-V ✓	5/8" ODF	225.8	35	204.8	12.5
1723	ASF 45S6-V	17210	ASD 45S6-V ✓	3/4" ODF	290.3	45	245.8	15.0
1724	ASF 45S7-V	17211	ASD 45S7-V ✓	7/8" ODF	290.3	45	245.8	15.0
1725	ASF 56S9-V	17212	ASD 56S9-V ✓	1-1/8" ODF	361.3	56	334.3	20.4
1726	ASF 90S11-V	17213	ASD 90S11-V ✓	1-3/8" ODF	580.6	90	575.2	35.1
1727	ASF 100S13-V	17214	ASD 100S13-V	1-5/8" ODF	645.2	100	611.2	37.3

NOTE: All sizes equipped with 1/4" inlet access valve as standard.

### SUCTION LINE RATINGS

FLOW CAPACITY IN TONS AT LISTED CONDITIONS \*

MODEL NO.	R12					R22					R502				
	EVAPORATOR TEMPERATURE °C (°F)														
	4.4 (40)	-6.7 (20)	-17.8 (0)	-29 (-20)	4.4 (40)	-6.7 (20)	-17.8 (0)	-29 (-20)	-40 (-40)	4.4 (40)	-6.7 (20)	-17.8 (0)	-29 (-20)	-40 (-40)	
	PRESSURE DROP kPa (psi)														
	13.8 (2)	10.3 (1.5)	6.9 (1)	3.4 (0.5)	20.7 (3)	13.8 (2)	10.3 (1.5)	6.9 (1)	3.4 (0.5)	20.7 (3)	13.8 (2)	10.3 (1.5)	6.9 (1)	3.4 (0.5)	

### TYPE ASF SUCTION LINE FILTER

ASF 21S3-V	1.2	.75	.52	.40	2.4	1.3	.89	.74	.53	2.2	1.1	.70	.46	.34
ASF 21S4-V	2.0	1.3	.92	.71	4.1	2.3	1.6	1.2	.94	3.8	2.0	1.2	.82	.60
ASF 35F5-V	2.3	1.5	1.0	.80	4.7	2.6	1.8	1.3	1.0	4.4	2.3	1.4	.93	.68
ASF 35S5-V	3.3	2.2	1.5	1.2	6.6	3.7	2.6	1.9	1.6	6.1	3.2	2.0	1.4	1.0
ASF 45S6-V	4.8	3.1	2.2	1.6	9.8	5.5	3.7	2.7	2.2	9.1	4.7	2.9	1.9	1.4
ASF 45S7-V	6.2	4.0	2.8	2.1	12.8	7.1	4.8	3.5	2.8	11.9	6.1	3.8	2.5	1.8
ASF 56S9-V	7.8	5.0	3.3	2.5	16.2	8.8	5.8	4.1	3.3	15.2	7.7	4.7	3.0	2.1
ASF 90S11-V	9.0	5.8	4.0	3.0	18.3	10.1	6.8	4.9	3.9	17.0	8.8	5.4	3.5	2.6
ASF 100S13-V	9.3	6.0	4.1	3.1	19.0	10.6	7.1	5.1	4.1	17.8	9.1	5.6	3.7	2.7

### TYPE ASD SUCTION LINE FILTER - DRIER

ASD 21S3-V	1.1	.62	.51	.39	2.3	1.3	.87	.64	.52	2.1	1.1	.68	.45	.33
ASD 21S4-V	1.9	1.2	.83	.63	3.8	2.1	1.4	1.0	.83	3.6	1.8	1.1	.74	.53
ASD 35F5-V	2.2	1.4	1.0	.75	4.4	2.5	1.7	1.2	1.0	4.1	2.1	1.3	.88	.64
ASD 35S5-V	2.9	1.9	1.3	1.0	5.8	3.2	2.2	1.6	1.3	5.4	2.8	1.7	1.1	.84
ASD 45S6-V	3.9	2.5	1.7	1.3	8.0	4.4	3.0	2.1	1.7	7.4	3.8	2.3	1.5	1.1
ASD 45S7-V	4.7	3.0	2.0	1.5	9.7	5.3	3.5	2.5	2.0	9.1	4.6	2.8	1.8	1.3
ASD 56S9-V	5.4	3.4	2.3	1.7	11.2	6.1	4.0	2.9	2.3	10.5	5.3	3.2	2.1	1.5
ASD 90S11-V	5.9	3.7	2.5	1.8	12.2	6.7	4.4	3.0	2.4	11.5	5.8	3.5	2.2	1.6
ASD 100S13-V	6.4	4.0	2.7	2.0	13.2	7.2	4.7	3.3	2.6	12.4	6.3	3.8	2.4	1.7

\* All ratings in accordance with ARI Standard 730-80. Based on 40°F evap. sat. temp., 50°F vapour leaving evap., 65°F vapour entering filter/filter-drier and 90°F liquid entering evap.

METRIC CONVERSION : Tons x 3.517 = kW. kW x 0.28433 = Tons

REFER PAGE 169 FOR ALCO REPLACEABLE FILTER-DRIER BLOCKS



# ASK BLOCK STYLE SUCTION LINE FILTER — DRIERS FOR R12 — R22 — R500 — R502

ALCO'S "ASK" FILTER-DRIER SERIES FOR SUCTION LINE SERVICE WAS DESIGNED ESPECIALLY FOR SMALLER SYSTEMS. THESE SEALED DRIERS INCORPORATE A MOULDED BLOCK OF ACTIVATED ALUMINA AND MOLECULAR SIEVE FOR EFFECTIVE CONTROL OF ACIDS AND MOISTURE.

2



### FEATURES

- Full Flow Fittings For Low Pressure Drop
- Inlet Pressure Access Valve
- Corrosion-Resistant Epoxy Paint Finish
- Rugged Shock Resistant Steel Shells
- Safe Working Pressure: 3450 kPa (500 psig)
- Burst Pressure: 17240 kPa (2500 psig)

### MOISTURE REMOVAL

The ASK high capacity block was designed for the tough moisture problems. Molecular sieve used in the ASK adsorbs and retains water quantities far in excess of other commonly used desiccants.

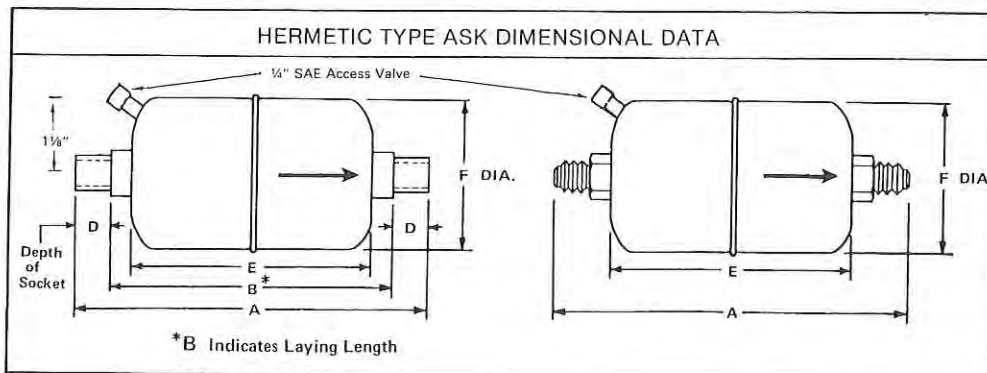
### FILTRATION

The geometry of the block exposes maximum surface area to the refrigerant with the flow directed and balanced. This provides even distribution of filtered material resulting in a minimum pressure drop and at the same time offers excellent protection against harmful solid contaminants (dirt, scale, chips, etc.) returning to the compressor with possible serious consequences.

### ACID REMOVAL

The removal of acid is important in the prevention of motor winding deterioration and system breakdown. With its high quality blend of desiccants, the ASK filter-drier has the ability to provide positive system protection against acids which is a must to ensure long system life.

CAT. NO.	MODEL	CONNECTIONS	SUGGESTED SYSTEM SIZE kW (HP)						FILTER AREA	EFFECTIVE FILTER VOLUME
			R12		R22		R502			
			kW	HP	kW	HP	kW	HP		
17220	ASK 164-V	1/2" SAE	0.93	1 1/4	1.87	2 1/2	1.49	2	219.4 cm <sup>2</sup> 34 ins <sup>2</sup>	262.2 cm <sup>3</sup> 16 ins <sup>3</sup>
17221	ASK 164S-V	1/2" ODF								
17222	ASK 165-V	5/8" SAE	1.12	1 1/2	2.05	2 3/4	1.68	2 1/4		
17223	ASK 165S-V	5/8" ODF								
17224	ASK 166S-V	3/4" ODF	1.31	1 3/4	2.24	3	1.87	2 1/2		
17225	ASK 167S-V	7/8" ODF	1.49	2	2.61	3 1/2	2.24	3		



MODEL	CONNECTIONS	DIMENSIONS -- INS.					SHIPPING WEIGHT
		A	B	D	E	F (1)	
ASK 164-V	1/2" SAE	6-15/16"	—	—	4-5/8"	2-7/8"	4.4 kg (2 lbs)
ASK 164S-V	1/2" ODF	6-3/16"	5-3/16"	1/2"			
ASK 165-V	5/8" SAE	7-7/16"	—	—			
ASK 165S-V	5/8" ODF	6-3/8"	5-1/8"	5/8"			
ASK 166S-V	3/4" ODF	6-3/4"	5-1/2"	3/4"			
ASK 167S-V	7/8" ODF	6-15/16"	5-7/16"	3/4"			

(1) Dimension does not include weld bead.



# ADKS REPLACEABLE BLOCK TYPE LIQUID LINE FILTER-DRIERS (SHELLS ONLY)

FOR R12 - R22 - R500 - R502

Alco ADKS Replaceable Block Type Filter-Driers offer high liquid line flow capacities for larger air-conditioning and refrigeration jobs. The moulded replaceable blocks provide efficient moisture adsorption and rapid acid removal. The blocks in conjunction with the shell's internal filter provides maximum filtration with low pressure drops.

### FEATURES

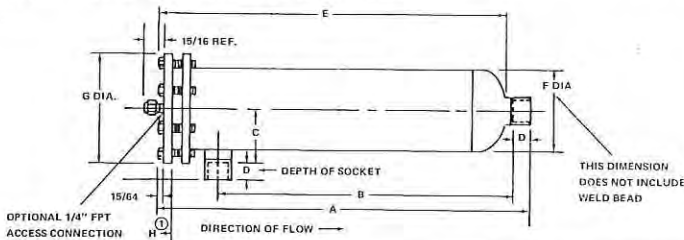


- Simplified internal hardware for ease of installation.
- Full flow fittings for low pressure drop.
- Corrosion resistant epoxy paint finish.
- Rugged steel shells for durability.
- Choice of Standard, Hi-Capacity or Burnout Cores.
- Internal Filter.
- 1/4" FPT access connection on all models (suffix 'T')
- Safe Working Pressure 3448 kPa (500 psig)
- Burst Pressure 17238 kPa (2500 psig)

LIQUID LINE RATINGS FOR REPLACEABLE BLOCK TYPE ADKS FILTER-DRIERS

CAT. NO.	MODEL ADKS Shell	Unit Size	Conns. (ODF)	Flow Capacity (1)						Water Capacity (2) Drops Water (3)						Filter Area cm <sup>2</sup> (ins. <sup>2</sup> )	No. & Type of Drier Blocks Req'd.	
				kW @ 13.8 kPa Press. Drop			Tons @ 2 psi Press. Drop			Refrigerant R12		Refrigerant R22		Refrigerant R502				
				R12	R22	R502	R12	R22	R502	24	52	24	52	24	52			
				Liquid Line Temp. °C														
17440	ADKS-485T	48	5/8"	67	81	60	19	23	17	655	550	501	436	542	461	445 (69)	1	D-48 H-48 W-48
	ADKS-487T		7/8"	88	109	77	25	31	22									
	ADKS-489T		1-1/8"	95	120	88	27	34	25									
	ADKS-4811T		1-3/8"	106	134	102	30	38	29									
	ADKS-4813T		1-5/8"	116	148	113	33	42	32									
17441	ADKS-967T	96	7/8"	151	190	134	43	54	38	1310	1100	1002	872	1084	922	890 (138)	2	D-48 H-48 W-48
	ADKS-969T		1-1/8"	183	229	162	52	65	46									
	ADKS-9611T		1-3/8"	204	253	176	58	72	50									
	ADKS-9613T		1-5/8"	225	285	197	64	81	56									
	ADKS-9617T		2-1/8"	274	345	239	78	98	68									
17442	ADKS-1449T	144	1-1/8"	222	278	197	63	79	56	1965	1650	1503	1308	1626	1383	1336 (207)	3	D-48 H-48 W-48
	ADKS-14411T		1-3/8"	260	327	232	74	93	66									
	ADKS-14413T		1-5/8"	299	369	257	85	105	73									
	ADKS-14417T		2-1/8"	362	447	310	103	127	88									
17443	ADKS-19211T	192	1-3/8"	320	408	285	91	116	81	2620	2200	2004	1744	2168	1844	1781 (276)	4	D-48 H-48 W-48
	ADKS-19213T		1-5/8"	376	471	334	107	134	95									
	ADKS-19217T		2-1/8"	457	573	405	130	163	115									
17443	ADKS-30013T	300	1-5/8"	422	531	376	120	151	107	4037	3390	3078	2679	3337	2838	2129 (330)	3	H-100 W-100
	ADKS-30017T		2-1/8"	513	644	457	146	183	130									
	ADKS-40017T		2-5/8"	549	686	489	156	195	139									
17443	ADKS-40021T	400	2-5/8"	619	774	552	176	220	157	5383	4520	4105	3572	4450	3784	2839 (440)	4	H-100 W-100

- (1) Flow Capacities based on 30°C (86°F) liquid refrigerant temperature, -15°C (5°F) saturated temperature, 8.6 grams/sec/kW (4.0lbs/min./ton) for R12; 6.3 grams/sec/kW (2.9lbs/min./ton) for R22; 9.5 grams/sec/kW (4.4lbs/min./ton) for R502.
- (2) Water capacities are based on an End Point Dryness of 15 ppm for R12; 60 ppm for R22 and 30 ppm for R502;
- (3) 20 drops of water = 1 gram = 1cc.



### PRELIMINARY INSTALLATION INSTRUCTIONS

1. The ADKS may be installed in any position. Allow sufficient clearance from the flanged end to permit removal of the shells internal hardware - Refer Dimension 'H'.
2. Flow must be in the direction of the arrow on the shell label.
3. Remove the internal hardware while soldering or brazing the connections. This will avoid any heat damage to the nylon internal hardware.

ADKS DIMENSIONAL DATA - ins.

MODEL	A	B	C	D	E	F	G	H*
ADKS-489T	9-17/32	5-1/4	2-29/32	15/16	8-3/32	4-1/2	6-1/16	7-3/4
ADKS-9613T	15-9/32	10-13/16	2-29/32	1-1/8	13-5/8	4-1/2	6-1/16	13-19/32
ADKS-14413T	20-13/16	16-11/32	2-29/32	1-1/8	19-3/16	4-1/2	6-1/16	18-7/8
ADKS-40021T	33-1/8	26-23/32	4-13/16	1-15/32	29-31/32	6	7-9/16	28-7/8

\* "H" Dimension is the clearance required to change the internal hardware assembly. Dimensions of full range available on request.

### REPLACEABLE CORES FOR ADKS SHELLS

CAT. NO.	Replaceable Core Type	Description	SUITS ADKS SHELLS			
			ADKS Shell Models			
16911 1691 1693	D - 48 or H - 48 or W - 48	Std. Capacity High Capacity Burnout Block	1 for Models:—			
			485T	487T	489T	4811T 4813T
			2 for Models:—			
			967T	969T	9611T	9613T 9617T
1692 1694	H - 100 or W - 100	High Capacity Burnout Block	3 for Models:—			
			1449T	14411T	14413T	14417T
			4 for Models:—			
			19211T	19213T	19217T	
1692 1694	H - 100 or W - 100	High Capacity Burnout Block	3 for Models:—		30013T 30017T	
			4 for Models:—		40017T 40021T	

NOTE: Full details of Alco Replaceable Cores are shown on Page 169.

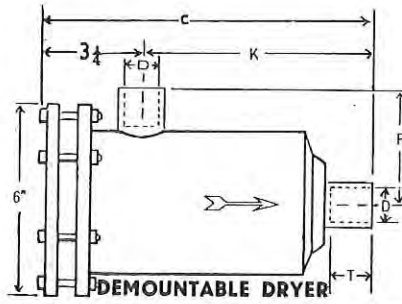


# NOTES


2

WE CAN HANDLE YOUR ORDERS AS FAST AND AS CAREFULLY AS WE CAN  
WE TRY TO GIVE YOU THE VERY BEST SERVICE  
NAME IT AND WE'VE PROBABLY GOT IT IN OUR WIDELY ASSORTED STOCK





# Heldon

## DEMOUNTABLE DRYERS (SHELLS ONLY)

### WITH REPLACEABLE CORES

SOLDER CONNECTIONS

CAT. NO. Shell Only	PART NUMBER	No. of Cores	Size of Conn. D	Volume of Desiccant cu. ins.	Surface Filter Area sq. ins.	Dimen. K	Dimen. P	Overall Length C	Socket Depth T	WATER CAPACITY IN DROPS 20 DROPS = 1 GRAM = 1 CC						REFRIGERANT FLOW CAPACITY IN TONS AT MAXIMUM PRESSURE DROP OF 2 P.S.I.			SELECTION RECOMMENDATIONS IN HORSE POWER					
										Refrigerant 12		Refrigerant 22		Refrigerant 502		Refrigerant			Refrigerant 12		Refrigerant 22		Refrigerant 502	
										75°F.	125°F.	75°F.	125°F.	75°F.	125°F.	12	22	502	Commercial Refrigeration and Low Temperature Equipment	Air Cond.	Commercial Refrigeration and Low Temperature Equipment	Air Cond.	Commercial Refrigeration and Low Temperature Equipment	Air Cond.
										12			22			502			Equipment		Equipment		Equipment	
1741	7150-12	1	3/4	48	64	5 1/2	3 3/8	8 3/4	5/8	1148	810	720	560	800	690	17.5	20	13.5	7 1/2	10	10	15	5	7 1/2
1742	7150-14	1	7/8			5 5/8	3 5/8	8 7/8	3/4							20	24	17	10	15	15	20	7 1/2	12
1743	7150-18	1	1 1/8			5 15/16	3 5/8	9 3/16	1							26.5	32	22	10	15	15	20	10	12
1744	7150-22	1	1 3/8			5 15/16	3 5/8	9 3/16	1							29.3	35.4	24	15	20	25	30	12	15
1745	7150-26	1	1 5/8			6 1/16	3 3/4	9 5/16	1 1/8							30	36	26	15	20	25	30	12	15
1746	7250-14	2	7/8	96	128	11 1/4	3 5/8	14 1/2	3/4	2420	1710	1440	1120	1700	1550	34	41	29	15	20	25	30	15	20
1747	7250-18	2	1 1/8			11 9/16	3 5/8	14 13/16	1							41	50	35	25	30	35	40	15	25
1748	7250-22	2	1 3/8			11 9/16	3 5/8	14 13/16	1							47	57	38	25	30	35	40	20	25
1749	7250-26	2	1 5/8			11 11/16	3 3/4	14 15/16	1 1/8							51	60	40	30	40	40	50	25	30
17410	7250-34	2	2 1/8			12 3/16	4 3/16	15 7/16	1 1/2							56	70	51	30	40	40	50	25	30
17411	7350-14	3	7/8	144	192	16 13/16	3 5/8	20 1/16	3/4	3650	2570	2160	1680	2500	2350	42	50	34	30	40	40	50	25	30
17412	7350-18	3	1 1/8			17 1/8	3 5/8	20 3/8	1							50	60	43	30	40	40	50	25	35
17413	7350-22	3	1 3/8			17 1/8	3 5/8	20 3/8	1							58	71	50	40	50	50	60	30	40
17414	7350-26	3	1 5/8			17 1/4	3 3/4	20 1/2	1 1/8							60	73	48	50	60	60	75	40	50
17415	7350-34	3	2 1/8			17 3/4	4 3/16	21	1 1/2							85	105	78	50	60	60	75	40	50
17421	7450-14	4	7/8	192	256	22 1/2	3 5/8	25 1/2	3/4	4800	3380	2880	2240	3300	3000	42	51	34	30	40	40	50	25	30
17422	7450-18	4	1 1/8			22 9/16	3 5/8	25 13/16	1							51	60	43	30	40	40	50	25	30
17423	7450-22	4	1 3/8			22 9/16	3 5/8	25 13/16	1							72	88	61	50	60	60	75	40	50
17424	7450-26	4	1 5/8			22 11/16	3 3/4	25 15/16	1 1/8							84	102	71	60	75	75	90	50	60
17425	7450-34	4	2 1/8			23 3/16	4 3/16	26 7/16	1 1/2							109	130	87	90	100	100	110	75	90

NOTE: CORES NOT INCLUDED WITH ABOVE DEMOUNTABLE DRIERS — MUST BE ORDERED SEPARATELY

TWO REPLACEABLE CORES		
Supplied in hermetically sealed can complete with new sealing gasket		
CAT. NO.	PART NO.	DESCRIPTION
17429	7600	STANDARD REPLACEABLE CORE
17420	7600 HH	BURN - OUT REPLACEABLE CORE

17430

MICRO - GUARD  
FILTER - DRIERS

HUDSON

TYPE	FLARE CONNECTIONS				SOLDER CONNECTIONS		CONN. SIZE	FILTER AREA	
	WITHOUT NUTS		WITH NUTS		CAT. NO.	P/N		SQ. CM.	SQ. INS.
	CAT. NO.	P/N	CAT. NO.	P/N					
032	—	FL032	1751	A16600	17525	A16640	1/4"	75.8	11.75
052	—	FL052	1753	A16606	17526	A16646		109.7	17.00
082	—	FL082	1755	A16608	17527	A16648		164.5	25.50
162	—	FL162	1758	A16612	—	—		233.9	36.25
033	—	FL033	1752	A16601	17528	A16641	3/8"	75.8	11.75
053	—	FL053	1754	A16607	17529	A16647		109.7	17.00
083	—	FL083	1756	A16609	17514	A16649		164.5	25.50
163	—	FL163	1759	A16613	17523	A16653		233.9	36.25
303	—	FL303	17518	A16618	17530	A16658		422.6	65.50
413	—	FL413	17519	A16623	17531	A16663	483.9	75.00	
084	—	FL084	1757	A16610	17515	A16650	1/2"	164.5	25.50
164	—	FL164	17510	A16614	17516	A16654		233.9	36.25
304	—	FL304	17512	A16619	17532	A16659		422.6	65.50
414	—	FL414	17520	A16624	17533	A16664		483.9	75.00
165	—	FL165	17511	A16615	17534	A16655	5/8"	233.9	36.25
305	—	FL305	17513	A16620	17535	A16660		422.6	65.50
415	—	FL415	17517	A16625	17536	A16665		483.9	75.00
306	—	FL306	17521	A16621	—	—	3/4"	422.6	65.50
416	—	FL416	17522	A16626	—	—		483.9	75.00
307	—	—	—	—	17537	A16662	7/8"	422.6	65.50
417	—	—	—	—	17524	A16667		483.9	75.00

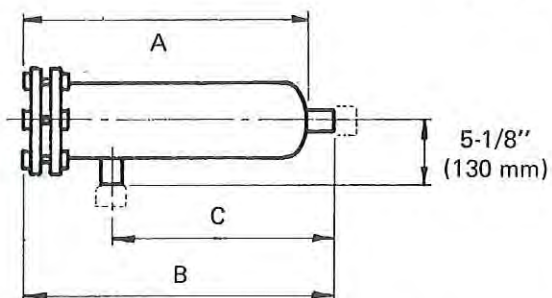
DIMENSIONS & CAPACITIES

TYPE	LAYING LENGTH				BODY DIAMETER		CAPACITY @ 14 kPa (2 psi) P.D.					
	FLARE		SOLDER				R 12		R 22		R 502	
	mm	ins	mm	ins	mm	ins	kW	Tons	kW	Tons	kW	Tons
032	108	4 1/4	77.8	3-1/16	44.5	1 3/4	7.0	2.0	8.4	2.4	5.6	1.6
052	117.5	4-5/8	85.7	3-3/8	60.3	2-3/8	5.6	1.6	6.7	1.9	4.6	1.3
082	142.9	5-5/8	111.1	4-3/8	60.3	2-3/8	7.0	2.0	8.4	2.4	5.6	1.6
162	158.8	6 1/4	—	—	76.2	3	6.3	1.8	7.4	2.1	4.9	1.4
033	120.7	4 3/4	77.8	3-1/16	44.5	1 3/4	12.7	3.6	15.1	4.3	10.2	2.9
053	128.6	5-1/16	87.3	3-7/16	60.3	2-3/8	15.8	4.5	19.0	5.4	12.7	3.6
083	154.0	6-1/16	111.1	4-3/8	60.3	2-3/8	16.2	4.6	19.3	5.5	13.0	3.7
163	171.5	6 3/4	128.6	5-1/16	76.2	3	20.4	5.8	24.3	6.9	16.2	4.6
303	246.1	9-11/16	203.2	8	76.2	3	17.6	5.0	21.1	6.0	14.1	4.0
413	244.5	9-5/8	208.0	8-3/16	88.9	3 1/2	17.6	5.0	21.1	6.0	14.1	4.0
084	160.3	6-5/16	112.7	4-7/16	60.3	2-3/8	32.4	9.2	38.7	11.0	25.7	7.3
164	160.3	6-5/16	127.0	5	76.2	3	32.4	9.2	38.7	11.0	25.7	7.3
304	250.8	9-7/8	203.2	8	76.2	3	35.2	10.0	42.2	12.0	28.1	8.0
414	255.6	10-1/16	206.4	8-1/8	88.9	3 1/2	36.9	10.5	44.3	12.6	29.5	8.4
165	184.2	7 1/4	128.6	5-1/16	76.2	3	49.9	14.2	59.8	17.0	39.7	11.3
305	258.8	10-3/16	203.2	8	76.2	3	49.9	14.2	59.8	17.0	39.7	11.3
415	263.5	10-3/8	208.0	8-3/16	88.9	3 1/2	51.0	14.5	61.2	17.4	40.8	11.6
306	212.7	8-3/8	—	—	76.2	3	61.5	17.5	73.9	21.0	49.2	14.0
416	263.5	10-3/8	—	—	88.9	3 1/2	64.4	18.3	77.0	21.9	51.3	14.6
307	—	—	212.7	8-3/8	76.2	3	70.3	20.0	84.4	24.0	56.3	16.0
417	—	—	215.9	8 1/2	88.9	3 1/2	73.9	21.0	88.6	25.2	59.1	16.8



### REPLACEABLE CORE DRIERS

Manufactured in accordance with Unfired Pressure Vessel Code AS1210.



CAT. No.	TYPE No.	PART No.	CONN. INS.	NO CORES	FILTER AREA	
					SQ. CM	SQ. INS
1761	486	A16320	3/4	1	412.9	64
1762	487	A16321	7/8			
1763	489	A16322	1-1/8			
1764	4811	A16323	1-3/8			
1765	4813	A16324	1-5/8			
1766	967	A16325	7/8	2	825.8	128
1767	969	A16326	1-1/8			
1768	9611	A16327	1-3/8			
1769	9613	A16328	1-5/8			
17610	9617	A16329	2-1/8			
17611	1447	A16330	7/8	3	1238.7	192
17612	1449	A16331	1-1/8			
17613	14411	A16332	1-3/8			
17614	14413	A16335	1-5/8			
17615	14417	A16336	2-1/8			
17616	1927	A16340	7/8	4	1651.6	256
17617	1929	A16341	1-1/8			
17618	19211	A16342	1-3/8			
17619	19213	A16343	1-5/8			
17620	19217	A16344	2-1/8			
17621	DRIER CORE	A7070	International Size nom. 3-3/4" x 1-3/4" x 5-3/8" Supplied C/W replacement 'o' Rings and Gasket.			

### DIMENSIONS & CAPACITIES

TYPE No.	DIMENSIONS						COPPER* UNION P/N	CAPACITY @ 14kPa (2 PSI) P.D.					
	A		B		C			R12		R22		R502	
	mm	ins	mm	ins	mm	ins		kW	TONS	kW	TONS	kW	TONS
486	190.5	7-1/2	260.4	10-1/4	158.8	6-1/4	W24041	63	18	81	23	56	16
487							W24042	81	23	106	30	70	20
489							W24044	116	33	144	41	99	28
4811							W24046	123	35	155	44	109	31
4813							—	130	37	162	46	116	33
967	330.2	13	400.1	15-3/4	298.5	11-3/4	W24042	151	43	193	55	134	38
969							W24044	190	54	239	68	165	47
9611							W24046	211	60	264	75	183	52
9613							—	229	65	288	82	201	57
9617							W24051	239	68	299	85	211	60
1447	450.9	17-3/4	520.7	20-1/2	419.1	16-1/2	W24042	176	50	225	64	151	43
1449							W24044	225	64	281	80	197	56
14411							W24046	257	73	331	94	225	64
14413							—	303	86	376	107	253	72
14417							W24051	317	90	387	110	281	80
1927	609.6	24	679.5	26-3/4	577.9	22-3/4	W24042	148	42	179	51	120	34
1929							W24044	179	51	211	60	151	43
19211							W24046	264	75	338	96	232	66
19213							—	324	92	394	112	288	82
19217							W24051	387	110	464	132	359	102

\*Driers with 1-5/8" Copper Connection are standard, other sizes supplied with loose unions as listed.



# VIRGINIA FILTER - DRIERS

## MODEL AH HI - SIDE FILTER - DRIER For Liquid Line Drying and Contaminant Removal

Through the use of a new inlet filter media and an ingenious method of enclosing it to prevent compression, by a spring loading feature, the dirt holding capacity at 14 kPa (2psi) has been increased 10 times. This provides low pressure drop and unsurpassed filtration capacity.

The Activated Alumina desiccant beads provide high capacity for moisture, inorganic acids, organic acids and oil breakdown materials. Spring loaded construction provides a rigid desiccant bed and a rugged shock proof drier.

Widespread use on transportation refrigeration has proved its durability.

All models are coated with a new corrosion resistant paint (500 hour salt spray finish), all models have large wrench flats.

With wide OEM acceptance, all models have standard laying lengths and 17238 kPa (2500 psi) Burst Pressure.

CAT. NO.	MODEL	CONN. INS.	DIMENSIONS (ins)			CAPACITY 14kPa (2 psi) PD kW (Tons)		
			O/A	LAYING	DIAM	R12	R22	R502
1771	AH-032	1/4 Fl.	108 (4.25)	108 (4.25)	41.2 (1.62)	6.7 (1.9)	8.8 (2.5)	6.0 (1.7)
1772	AH-052	1/4 Fl.	117.4 (4.62)	117.4 (4.62)	50.8 (2.00)	6.7 (1.9)	8.8 (2.5)	6.0 (1.7)
1773	AH-053	3/8 Fl.	130 (5.12)	130 (5.12)	50.8 (2.00)	15.5 (4.4)	21.1 (6.0)	14.1 (4.0)
1774	AH-082	1/4 Fl.	139.7 (5.50)	139.7 (5.50)	63.5 (2.50)	6.7 (1.9)	8.8 (2.5)	6.0 (1.7)
1775	AH-083	3/8 Fl.	152.4 (6.00)	152.4 (6.00)	63.5 (2.50)	15.8 (4.5)	21.8 (6.2)	14.4 (4.1)
1776	AH-084	1/2 Fl.	157.5 (6.20)	157.5 (6.20)	63.5 (2.50)	23.9 (6.8)	33.1 (9.4)	21.8 (6.2)
1777	AH-162	1/4 Fl.	158.8 (6.25)	158.8 (6.25)	63.5 (2.50)	6.7 (1.9)	8.8 (2.5)	6.0 (1.7)
1778	AH-163	3/8 Fl.	171.5 (6.75)	171.5 (6.75)	63.5 (2.50)	17.6 (5.0)	24.3 (6.9)	15.8 (4.5)
1779	AH-164	1/2 Fl.	176.3 (6.94)	176.3 (6.94)	63.5 (2.50)	32.0 (9.1)	43.6 (12.4)	29.2 (8.3)
17710	AH-304	1/2 Fl.	252.7 (9.95)	252.7 (9.95)	72.9 (2.87)	31.3 (8.9)	42.9 (12.2)	28.8 (8.2)

## MODEL AL LO - SIDE FILTER - DRIER For Suction Line Contaminant Removal, Rework and Motor Burn-Out Clean-Up

Designed to provide negligible pressure drop at the high flow rate of suction gas. The blended mixture of Activated Alumina and molecular sieve desiccant provides enormous capacity for water, hydrochloric acid, organic acids and oil breakdown products. Pressure drop can be checked by means of the access valve on the inlet side of the drier.

The use of internal heat shields allows the drier to be installed with any of the low or high melting point brazing alloys, with no danger of burning the filter.

Extremely effective in cleaning up systems after hermetic motor burn-outs. A liquid line drier at least one size larger than normal is placed in the liquid line and the 'AL' Lo-Side Drier is installed as closely as possible to the compressor.

### SPECIAL PRECAUTIONS:

1. On Heat Pump and Hot Gas Defrost Systems, the drier must be installed between the reversing valve and the compressor.
2. The drier must be installed according to the direction of flow arrow on the label.
3. It is recommended that the Lo-Side Filter Drier be installed ahead of the accumulator if there is an accumulator in the suction line.

17716	AL12-3V	3/8 Fl.	130 (5.12)	130 (5.12)	72.9 (2.87)	1.8 (0.5)	3.2 (0.9)	2.6 (0.75)
17717	AL12-3SV	3/8 Sold	111.8 (4.40)	89.4 (3.52)	72.9 (2.87)	1.8 (0.5)	3.2 (0.9)	2.6 (0.75)
17718	AL12-4V	1/2 Fl.	135.1 (5.32)	135.1 (5.32)	72.9 (2.87)	4.2 (1.2)	7.0 (2.0)	5.6 (1.6)
17719	AL12-4SV	1/2 Sold	113.3 (4.46)	87.9 (3.46)	72.9 (2.87)	4.2 (1.2)	7.0 (2.0)	5.6 (1.6)
17720	AL24-5SV	5/8 Sold	175.8 (6.92)	150.1 (5.91)	72.9 (2.87)	5.3 (1.5)	8.8 (2.5)	6.3 (1.8)
17721	AL30-6SV	3/4 Sold	211.6 (8.33)	179.6 (7.07)	72.9 (2.87)	7.0 (2.0)	10.6 (3.0)	8.8 (2.5)
17722	AL30-7SV	7/8 Sold	217.9 (8.58)	179.6 (7.07)	72.9 (2.87)	8.8 (2.5)	15.8 (4.5)	10.6 (3.0)
17723	AL44-9SV	1-1/8 Sold	240.5 (9.47)	193.6 (7.62)	82.6 (3.25)	14.1 (4.0)	21.1 (6.0)	17.6 (5.0)
17724	AL75-11SV	1-3/8 Sold	332.7 (13.10)	283.5 (11.16)	82.6 (3.25)	19.3 (5.5)	28.1 (8.0)	24.6 (7.0)
17725	AL75-13SV	1-5/8 Sold	339.6 (13.37)	283.5 (11.18)	82.6 (3.25)	28.1 (8.0)	38.7 (11.0)	29.9 (8.5)

### WAX CAPACITY

17726	AHC-163F	3/8 Fl.	171.5 (6.75)	171.5 (6.75)	63.5 (2.5)	4.3 grams		
17727	AHC-164F	1/2 Fl.	176.3 (6.94)	176.3 (6.94)	63.5 (2.5)	4.3 grams		
17728	AHC-165F	5/8 Fl.	184.2 (7.25)	184.2 (7.25)	63.5 (2.5)	4.3 grams		
17729	AHC-303F	3/8 Fl.	247.7 (9.75)	247.7 (9.75)	72.9 (2.87)	10.8 grams		
17730	AHC-304F	1/2 Fl.	252.7 (9.95)	252.7 (9.95)	72.9 (2.87)	10.8 grams		
17731	AHC-305F	5/8 Fl.	260.4 (10.25)	260.4 (10.25)	72.9 (2.87)	10.8 grams		
17732	AHC-414F	1/2 Fl.	255.8 (10.07)	255.8 (10.07)	82.6 (3.25)	14.7 grams		
17733	AHC-415F	5/8 Fl.	263.4 (10.37)	263.4 (10.37)	82.6 (3.25)	14.7 grams		

## MODEL AHC WAX REMOVAL DRIER

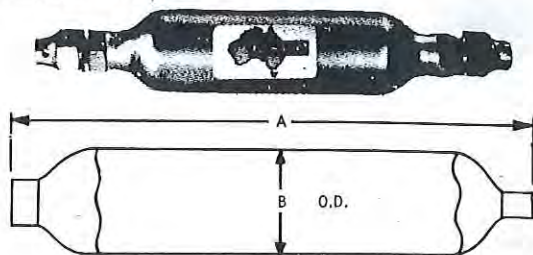
The Model AHC (C is for Carbon) Drier solves the problem of microcrystalline wax in low temperature R22 and R502 systems. A scientific blend of desiccant and activated carbon provides a drier which quickly removes the wax which passes on through ordinary driers and plugs and fouls flow controls. It removes the organic and inorganic acids, removes oil breakdown materials, removes the moisture and filters out damaging solids.

WE WILL BE GLAD TO QUOTE ON LARGE QUANTITIES

# KIRBY HIGH-SIDE FILTER DRYERS

INCORPORATING MOLECULAR SIEVE

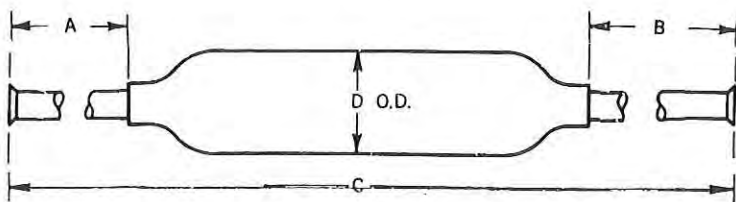
Kirby High-Side Filter Dryers incorporate sodium aluminium silicate, a desiccant which has an extremely high moisture capacity. This capacity is only slightly reduced at higher temperatures—hence their suitability for liquid line operation. A fine mesh monel screen acts as a highly efficient filter without restricting refrigerant flow.



CAT. NO.	MODEL NO.	INLET CONNECTION mm	OUTLET CONNECTION mm	OVERALL DIMENSIONS		DESICCANT WEIGHT g
				A (mm)	B (mm)	
1781	MRA 231 - 10	6.48	2.84	148	17.4	15.0
1782	MRA 231 - 11	4.88	2.24	95	17.4	7.5
1783	MRA 231 - 12	6.48	2.24	95	17.4	7.5
1784	MRA 231 - 72	6.48	2.84	148	17.4	15.0
17858	MRA 232 - 1	6.48	4.88	115	17.4	10.0
17859	MRA 232 - 2	6.48	4.88	130	24.0	20.0
17860	MRA 232 - 3	6.48	4.88	160	24.0	30.0

## SERVICE DRYERS

A range of dryers to provide for normal field replacements. Lengths of copper tube are inserted into the ends of the service dryer body, and these connector tubes are then crimped and sealed. The crimped portion of each tube is easily removed prior to installation of the dryer.



CAT. NO.	MODEL NO.	CONNECTIONS		OVERALL DIMENSIONS				DESICCANT WEIGHT g	SCREEN AREA cm <sup>2</sup> (ins <sup>2</sup> )
		INLET ins	OUTLET ins	mm (ins)					
				A	B	C	D		
1785	MRA 215 - 1	1/4 OD	1/4 OD	203.2 (8)	203.2 (8)	520.7 (20½)	25.4 (1)	15	12.3 (1.9)
1786	MRA 215 - 2	1/4 OD	1/4 OD	203.2 (8)	203.2 (8)	565.2 (22¼)	25.4 (1)	25	12.3 (1.9)
1787	MRA 215 - 3	1/4 OD	3/16 OD	203.2 (8)	203.2 (8)	520.7 (20½)	25.4 (1)	15	12.3 (1.9)
1788	MRA 215 - 4	1/4 OD	3/16 OD	203.2 (8)	203.2 (8)	565.2 (22¼)	25.4 (1)	25	12.3 (1.9)

### FAST SERVICE

AS REAL SPECIALISTS IN REFRIGERATION, AIR CONDITIONING AND HEATING, WE STOCK THOUSANDS OF DIFFERENT PARTS, TOOLS AND SUPPLIES. WE BELIEVE THIS IS ONE OF THE MOST COMPLETE ASSORTMENT IN THE INDUSTRY. THIS LARGE INVENTORY, PLUS AN EXPERIENCED ORGANIZATION AND A MODERN STREAMLINED ORDER SYSTEM, ALWAYS ASSURES YOU OF FAST BUT CAREFUL SERVICE. WE DESPATCH OVER 90% OF ALL ORDERS ON THE DAY THEY ARE RECEIVED.



K.M.P. DRIERS

CERAMIC FILTER-KORE MOLECULAR SIEVE DRYER

The KMP CERAMIC FILTER-Kore with 100% Molecular Sieves is a non-refillable type.

Available in 7 models with drying capacities up to 67 kW(19 tons) on Refrigerant 12 and 81 kW(23 tons) on Refrigerant 22.

The Shell is constructed of Heavy Gauge Steel incorporating the use of copper plated fittings for both flare and solder type connections and tested to 17238 kPa (2500 PSIG).

Dryer ratings for Refrigerant 12 are based on the amount of refrigerant in a system that can be maintained in equilibrium at 15 PPM after removal of 5 drops of water (550 PPM) per lb.

The ratings for Refrigerant 22 are based on the amount of refrigerant in a system that can be maintained in equilibrium at 60 PPM after the removal of 9 drops of water (990 PPM) per lb.

The total refrigerant charge, if known, should be the actual basis for selection of dryer size. Where the amount of refrigerant charge is not known, it should be assumed as being 8 pounds per ton for Refrigerant 12 and 6 pounds per ton for Refrigerant 22.

The Refrigerant Flow Capacity should be taken into consideration which is the maximum flow of liquid refrigerant (in tons) that a dryer will pass at 14 kPa (2 PSI) pressure drop.

CAT.NO.	MODEL NUMBER	SWEAT FLARE	I.D.	O.D.	LENGTH	DIA.	FILTER AREA SQ. IN.	REFRIGERANT 12				REFRIGERANT 22				REFRIGERANT FLOW CAP. 2 PSI PRESSURE DROP IN TONS		KMP RECOMMENDED TONNAGE	
								DRYING CAP. IN LBS. REF.		WATER CAP. IN DROPS		DRYING CAP. IN LBS. REF.		WATER CAP. IN DROPS		R-12	R-22	R-12	R-22
								75°	125°	75°	125°	75°	125°	75°	125°				
1791	032	1/4			4 3/4	1 3/8	10	7.0	6.9	35.3	34.4	4.1	2.9	36.4	26.2	1.5	1.8	1	3/4
1792	032S	1/4	3/8		3 3/4														
1793	052	1/4			4 3/4														
1794	052S	1/4	3/8		4 1/4														
1795	053	3/8			5	2 1/4	17	14.6	14.4	73.8	71.8	8.5	6.1	76.0	54.8	5.3	6.4	2	1 1/2
1796	053S	3/8	1/2		4 3/4														
1797	082	1/4			5 3/4														
1798	082S	1/4	3/8		5 1/4														
1799	083	3/8			6 1/4	2 1/4	27	23.8	23.6	120	117	13.9	9.9	124	89.0	5.9	7.0	3	2 1/2
17910	083S	3/8	1/2		5 1/4														
17911	084	1/2			6 3/4														
17912	084S	1/2	3/8		5 1/2														
17913	162	1/4			6 3/8														
17914	162S	1/4	3/8		5 7/8														
17915	163	3/8			6 3/8														
17916	163S	3/8	1/2		6.0	2 1/4	33	38.5	38.0	194	189	22.5	16.0	200	144	7.7	9.2	5	4
17917	164	1/2			6 1 3/4														
17918	164S	1/2	3/8		6 1/4														
17919	165	3/8			7 1/4														
17920	165S	3/8	3/8		6 3/4														
17921	303	3/8			9 1 1/4														
17922	303S	3/8	1/2		8 7/8														
17923	304	1/2			9 7/8	2 1/4	59	68.5	67.6	345	336	40	28.5	356	256	8.0	9.6	8 1/2	7
17924	304S	1/2	3/8		9 1/4														
17925	305	3/8			10 1/4														
17926	305S	3/8	3/8		9 1/4														
17927	414	1/2			9 3/8														
17928	414S	1/2	3/8		8 3/4	3	67	81.6	80.6	412	402	47.6	33.9	424	305	15.7	18.8	10	8
17929	415	3/8			9 5/8														
17930	415S	3/8	3/8		8 3/4														
—	754	1/2			12 1/2														
17931	754S	1/2	3/8		11 7/8														
17932	755	3/8			12 3/4	3	82	154	152	776	757	90	64	800	576	19.2	23.0	19	15
17933	755S	3/8	3/8		11 7/8														
17934	756	3/4			13														
17935	756S	3/4	3/8		12 3/4														

KMP MOTOR BURN-OUT CLEAN-UP DRYER

KMP Motor Burn-out Clean-up Driers are designed to remove sludge from a sealed unit system following a motor burn-out. The Clean-up Drier is fitted in the suction line and must only be left in the line for 3 days, otherwise the build-up of sludge could cause excessive pressure drop across the drier. A jumper tube is supplied too, if necessary, to fill up the space left in the line when the clean-up drier is removed.

CAT. NO.	MODEL	CONN.	LENGTH
17945	MB - 20	1/2" I.D. Solder	6-9/16"
17944	UP TO	7/8" I.D. Solder	6-13/16"
17941	2 TON	3/8" Flare	6-9/16"
17942	(7 kW)	1/2" Flare	6-13/16"
17943	SYSTEMS	5/8" Flare	7-5/16"

KMP SLD CLEAN - UP DRIER - Suction line filter-drier

A solid core suction line filter-drier designed for system clean-up - large outside diameter resulting in a shorter 'lay-in' length, plus access valves on both inlet and outlet for checking pressure drop.

CAT. NO.	MODEL	CONN. (Solder)	DESICCANT VOLUME		FILTER AREA		DIMENSIONS INCHES			CAPACITY 14 kPa (2PSI) P.D.					
			cu.cm	cu.ins	sq.cm	sq.ins	O/A	Cutout	Diam	R12		R22		R502	
										kW	TONS	kW	TONS	kW	TONS
17958	SLD 13-5SV	5/8"	221	13.5	168	26	5.25	4	4	8.8	2.5	10.6	3.0	8.8	2.5
17959	SLD 27-7SV	7/8"	443	27.0	316	49	7.85	6-3/32	4	21.1	6.0	28.1	8.0	17.6	5.0
17960	SLD 27-9SV	1-1/8"	443	27.0	316	49	7.90	5-29/32	4	24.6	7.0	31.7	9.0	24.6	7.0
17961	SLD 54-11SV	1-3/8"	885	54.0	568	88	12.08	10-1/16	4	38.7	11.0	47.5	13.5	36.9	10.5
17962	SLD 54-13SV	1-5/8"	885	54.0	568	88	12.08	10-1/16	4	45.7	13.0	56.3	16.0	44.0	12.5

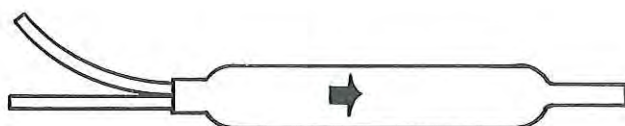


# KMP AND KEY DRIERS

NON REFILLABLE ALL PURPOSE MOLECULAR SIEVE DRIERS



KMP DRIERS		TECHNICAL DATA			KEY DRIERS		
CAT. NO.	TYPE	CAPACITY GRAMS	CONNECTIONS		CAT. NO.	MODEL	
			INLET	OUTLET			
WITH 3" TAILS (Type 1 Inlet - Straight) (Type 2 Outlet - Angled)						WITH TAILS	
18086	1535 - 10G	10	1/4"	3/16"	18014	3612	
18078	1535 - 15G	15	1/4"	3/16"	1809	3604	
18089	1535 - 15G	15	1/4"	1/4"	18010	3617	
18079	1535 - 15G	15	5/16"	3/16"	18011	3605	
18085	1535 - 20G	20	1/4"	3/16"	18022	3611	
18095	1535 - 20G	20	1/4"	1/4"	-	-	
18056	1535 - 25G	25	1/4"	3/16"	-	-	
18093	1535 - 25G	25	1/4"	1/4"	-	-	
18088	1535 - 50G	50	1/4"	3/16"	-	-	
WITHOUT TAILS						WITHOUT TAILS	
18065	1535 - 10G	10	3/16"	Capillary	-	-	
18076	1535 - 10G	10	1/4"	Capillary	1803	3601	
18039	1535 - 10G	10	3/16"	2.8 - 2.9mm Angle Conn	-	-	
18077	1535 - 10G	10	3/16"	3/16"	18012	3603	
18084	1535 - 10G	10	1/4"	3/16"	1802	3610	
18055	1535 - 10G	10	1/4"	1/4"	-	-	
18082	1535 - 15G	15	1/4"	Capillary	1806	3608	
18097	1535 - 15G	15	3/16"	3/16"	-	-	
18083	1535 - 15G	15	1/4"	3/16"	1804	3609	
18081	1535 - 15G	15	1/4"	1/4"	1805	3607	
-	-	15	5/16"	3/16"	18011	3605	
18037	1535 - 20G	20	1/4"	2.8 - 2.9mm Angle Conn	-	-	
18080	1535 - 20G	20	1/4"	3/16"	1807	3606	
18057	1535 - 25G	25	1/4"	1/4"	-	-	
18087	1535 - 50G	50	1/4"	3/16"	1808	3615	



TWIN TAIL INLET

## TWIN TAIL (INLET) DRIERS

- 1st. Connection = Inlet
- 2nd. Connection = Charging/Vac. Port
- 3rd. Connection = Outlet

KMP DRIERS		TECHNICAL DATA			KEY DRIERS	
CAT. NO.	TYPE	CAPACITY GRAMS	CONNECTIONS		CAT. NO.	MODEL
			1st. and 2nd.	3rd.		
18091	1535 - 10G	10	3/16" + 3/16"	3/16"	-	-
18090	1535 - 15G	15	1/4" + 1/4"	1/4"	18013	2612
18092	1535 - 15G	15	5/16" + 1/4"	3/16"	-	-

REFER NEXT PAGE FOR :  
LITTLE GIANT SERVICE DRIERS  
COPPER / ALUMINIUM CONNECTORS  
KMP and KELVINATOR STRAINERS

## DRIERS

### ACPAR / KMP LITTLE GIANT SERVICE DRIER



This service drier with Molecular Sieve desiccant has been designed to eliminate the worst moisture problems encountered in general field service work. It is small, but with plenty of capacity to handle units up to .25 kW (1/3 HP) with R12 and .37 kW (1/2 HP) with R22. Made from 19 mm (3/4") copper tubing and fitted with tube

connections of 6.35 mm (1/4") OD silver brazed in place. The inlet fits either 6.35 mm (1/4") or 4.7 mm (3/16"), and the outlet has been spun down to accommodate capillary tube. The tubes are easily cut, swaged, flared or bent to accommodate on the job adaption. Total length of the drier is 232mm (9-1/8") from break-off to break-off.

ACPAR CAT. NO.	KMP CAT. NO.	INLET TUBE SIZE	OUTLET TUBE SIZE	CAPACITY GRAMS	WATER CAPACITY – DROPS			DRYING CAPACITY kW (Tons)		
					R12	R22	R502	R12	R22	R502
18048	18018	1/4" OD 3/16" ID	.089/.092 Cap. Tube	10	37.5	34.5	34.5	1.16 (0.33)	1.76 (0.50)	1.16 (0.33)

## COPPER/ALUMINIUM CONNECTORS



Cat.No.	Inlet	Outlet
18040	1/4"	1/4"
18045	3/16"	3/16"
18041	1/4"	1/4" + 5/16"
18042	1/4"	1/4" + 3/16"
18046	1/4"	3/16"
18043	1/4"	1/4" + Cap.
18044	3/16"	3/16" + Cap.

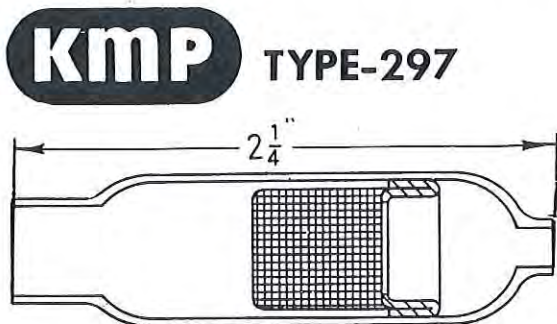
These connectors are designed to be used for connecting an aluminium evaporator with the suction side of a compressor in a hermetic system.

Produced from high quality soft copper and aluminium tube with O.D. 7.93 mm (5/16") and wall thickness of 1.27 mm (0.05").

Because of the special soldering process and strict control necessary, joints can be guaranteed even under the toughest conditions.

End of copper tube can be expanded or spun down, so as to fit O.D. of capillary tube. Recommended length of copper and aluminium : 100 mm (4") each.

## STRAINERS



CAT. NO.	Model	Type Screen	Conns.	Wall Thickness	Filter Area	Hydrostatic Test
18019	297	150 Mesh Monel formed cup construction	1/4" ODF x Capillary	0.07 mm (0.028")	6.5 cm <sup>2</sup> (1 in. <sup>2</sup> )	18617 kPa 2700 psig

## Kelvinator



CAT. NO.	Type	Part No.	Connections
18020	E34	KA1517	1/4" x 1/4" ODM

ACTROL PARTS – TO HELP YOU BUILD REFRIGERATION SYSTEM RELIABILITY