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REFRIGERATION PRODUCTS

Smart Electric products offer reliable and longer lasting solutions for refrigeration. We know how important it is to keep systems clean and running at its full efficiency for trouble-free operation. All of our products are designed and manufactured to meet the requirements of high-pressure refrigerants while providing maximum protection from contaminants.

table of contents

PRESSURE SWITCHES	62
FAN CYCLING	62
SMART STRAINERS	63
SPUN COPPER DRIERS	63
BALL VALVES	64
SK LIQUID LINE FILTER DRIER.....	65
SBD BI-DIRECTIONAL HEAT PUMP FILTER DRIER	66
SUCTION FILTER DRIERS	66
DRIER FILTER SHELL	67
FILTER DRIER CORES AND FILTERS	67
SUCTION ACCUMULATORS	68
OIL SEPARATORS.....	68
SIGHT GLASSES	69



SMART ELECTRIC PRESSURE SWITCHES: Designed to continuously monitor Low and High pressures of a system mainly for compressor protection and safety. The system will cut off when pressure exceeds the pressure range.



PRESSURE SWITCHES

FEATURES:

- Fixed settings pressure controls
- 24v-240v
- Contacts rated at 6 amps
- High pressure cut out - open on pressure rise, automatic reset, normally closed
- Low pressure cut out - open on pressure drop, automatic reset, normally open
- Available for R-410 pressure ratings

PART NO.	OPEN	CLOSE	PROOF PRESSURE	BURST PRESSURE
SLP05-20	5 psi	20 psi	250	3500
SLP10-25	10 psi	25 psi	250	3500
SLP25-50	25 psi	50 psi	250	3500
SLP25-80	25 psi	80 psi	500	3500
SLP40-80	40 psi	80 psi	500	3500
SLP90-120	90 psi	120psi	500	3500
SHP200-150	200 psi	150 psi	500	3500
SHP250-150	250 psi	150 psi	500	3500
SHP300-200	300 psi	200 psi	600	3500
SHP350-250	350 psi	250 psi	600	3500
SHP400-300	400 psi	300 psi	600	3500
SHP400-200	400 psi	200 psi	600	3500
SHP450-250	450 psi	250 psi	600	3500
SHP610-460	610 psi	460 psi	600	3500

FAN CYCLING

CROSS REFERENCE

PART NO.	OPENING PRESSURE	RESET PRESSURE	SWITCH ACTION (OPEN ON PRESSURE)	ACTION	REPLACES MARS
SPF125	125	265	Fall	Fan Cycling	33340
SPF150	150	225	Fall	Fan Cycling	-
SPF170	170	250	Fall	Fan Cycling	-
SPF210	210	275	Fall	Fan Cycling	33341
HIGH PRESSURE CONTROL/MANUAL RESET					
SPM410	410		Manual	Manual	33350

SMART STRAINERS

FEATURES:

- Outlet dimensions of 0.093 to 3/8"
- Inlet dimensions of 1/4" to 3/8"
- Equipped with S.S. mesh screen
- Available with 1, 2, 3 and 4 outlets

PART NO.	INLET	OUTLET	NO. OF OUTLETS	LENGTH
SS862	3/8"	0.146 in	2	3"
SS962	3/8"	0.146 in	3	4"
SS963	3/8"	0.146 in	4	5"

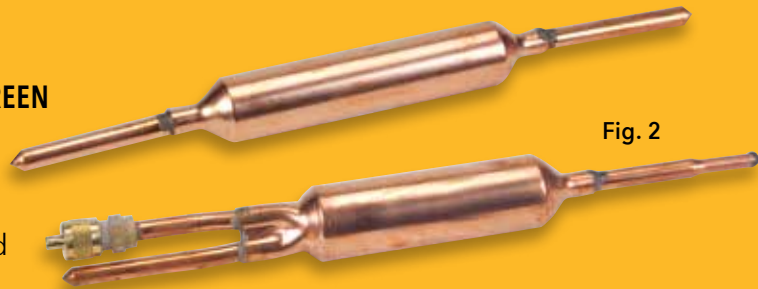


SPUN COPPER DRIERS

DESIGNED TO REMOVE MOISTURE AND ACID FROM REFRIGERANT. ALSO CONTAINS S.S. SCREEN TO TRAP FOREIGN MATTER IN REFRIGERANT.

FEATURES:

- SE804 copper tube may be cut, swaged or bent to accommodate application
- Compatible with most new blend refrigerants
- Use XH-9 desiccant



PART NO.	SWEAT CONN.	DESICCANT GRAMS	DIAMETER	LENGTH	FIG.
SE15	1/4" x 1/4"	15	3/4"	9 1/4"	1
SE25	1/4" x 1/4"	25	1"	9"	1
SE30	1/4" x 1/4"	30	1"	9 1/2"	1

PART NO.	SWEAT CONN.	DESICCANT GRAMS	RECOMMENDED TONNAGE				
			R12		R22		FIG.
			75°F	125°F	75°F	125°F	
SE804	1/4" x 1/4"	10	1/2	1/2	1/2	1/3	1
SEX5	1/4" x 1/4"	10	1	1	1 1/2	3/4	2

INTRODUCING SMART ELECTRIC BALL VALVES

BALL VALVES

FEATURES:

- One quarter turn to open or close
- Easy flow and no pressure drop
- Double "O" ring for greater seating surface
- Forged brass body
- Temperature range -40°F to 250°F



PART NO.	CONNECTION (ODS)	BALL PORT DIAMETER	WEIGHT (LB)
SBV08	1/2	0.5	0.7
SBV10	5/8	0.5	0.7
SBV12	3/4	0.75	1
SBV16	7/8	0.75	1
SBV18	1 1/8	1	2.2
SBV20	1 3/8	1.5	3.8

SK LIQUID LINE FILTER DRIER

FEATURES:

- Solid core
- Prevents refrigeration system from being polluted
- Epoxy paint
- High moisture and acid removal capability
- Copper ends



MAXIMUM		LIQUID FLOW CAPACITY (TONS)							CONNECTIONS					
PART NO.	WORKING PRESSURE	R404A							ODF (IN.)	SAE (IN)	A (IN)	B (IN)	C (IN)	D (IN)
		R134A	R12	R22	R410	R407C	R507	R502						
SK-052	600	2.1	1.7	2.2	2.2	2.2	1.5	1.5		1/4	4.81		3.00	2.64
SK-052S	600	3.6	3.0	4.0	4.0	4.0	2.6	2.6	1/4		4.44	3.69	3.00	2.64
SK-053	600	4.6	3.8	5.0	5.0	5.0	3.3	3.3		3/8	5.13		3.00	2.64
SK-053S	600	6.7	5.5	7.3	7.3	7.3	4.8	4.7	3/8		4.50	3.63	3.00	2.64
SK-082	600	2.1	1.7	2.2	2.2	2.2	1.5	1.5		1/4	5.63		3.80	2.64
SK-082S	600	3.6	3.0	4.0	4.0	4.0	2.6	2.6	1/4		5.25	4.50	3.80	2.64
SK-083	600	5.5	4.5	5.9	5.9	5.9	4.0	3.9		3/8	5.94		3.80	2.64
SK-083S	600	7.4	6.1	8.1	8.1	8.1	5.4	5.3	3/8		5.31	4.44	3.80	2.64
SK-084	600	9.2	7.6	10.0	10.0	10.0	6.7	6.5		1/2	6.19		3.80	2.64
SK-084S	600	10.4	8.5	11.2	11.2	11.2	7.5	7.3	1/2		5.38	4.38	3.80	2.64
SK-163	600	6.1	5.0	6.6	6.6	6.6	4.4	4.3		3/8	6.88		4.75	2.64
SK-163S	600	8.2	6.8	9.0	9.0	9.0	6.0	5.8	3/8		6.25	5.25	4.75	2.64
SK-164	600	12.2	10.0	13.2	13.2	13.2	8.8	8.6		1/2	7.06		4.75	2.64
SK-164S	600	14.6	12.0	15.9	15.9	15.9	10.5	10.3	1/2		6.31	5.19	4.75	2.64
SK-165	600	18.3	15.0	19.9	19.9	19.9	13.2	12.9		5/8	7.50		4.75	2.64
SK-165S	600	18.3	15.0	19.9	19.9	19.9	13.2	12.9	5/8		6.56	5.19	4.75	2.64
SK-167S	500	20.1	16.5	21.8	21.8	21.8	14.5	14.2	7/8		7.13	5.50	4.75	2.64
SK-304	500	14.1	11.6	15.4	-	15.4	10.2	10.0		1/2	9.88		7.50	3.15
SK-304S	500	15.4	12.7	16.8	-	16.8	11.1	10.9	1/2		9.06	8.06	7.50	3.15
SK-305	500	19.2	15.8	20.9	-	20.9	13.9	13.6		5/8	10.31		7.50	3.15
SK-305S	500	20.7	17.0	22.5	-	22.5	14.9	14.6	5/8		9.31	8.06	7.50	3.15
SK-307S	500	28.0	23.0	30.4	-	30.4	20.2	19.8	7/8		9.88	8.38	7.50	3.15
SK-415	500	23.1	19.0	25.2	-	25.2	16.7	16.4		5/8	10.44		7.25	3.66
SK-415S	500	23.1	19.0	25.2	-	25.2	16.7	16.4	5/8		9.44	8.19	7.25	3.66
SK-417S	500	28.6	23.5	31.1	-	31.1	20.6	20.2	7/8		9.88	8.19	7.25	3.66
SK-419S	500	31.7	26.1	34.5	-	34.4	22.9	22.4	1 1/8		10.38	8.56	7.25	3.66



SBD BI-DIRECTIONAL HEAT PUMP FILTER DRIER

FEATURES:

- Design for heat pump or reverse cycle applications
- Includes an internal check valve which allows flow and filtration either way
- Epoxy powder paint
- Effectively removes moisture, acid and solid contaminants
- Copper ends



PART NO.	UNIT SIZE	CONNECTION SIZE & TYPE	FLOW CAPACITY TONS @ 1 PSIG ΔP		
			R-134A	R-22	R-404A/R-507
SBD-083	8	3/8 SAE	4.2	4.5	2.9
SBD-083S	8	3/8 ODF	4.7	5.1	3.3
SBD-084	8	1/2 SAE	5.9	6.4	4.2
SBD-084S	8	1/2 ODF	6.2	6.7	4.4
SBD-085	8	5/8 SAE	7.2	7.8	5.1
SBD-085S	8	5/8 ODF	7.5	8.1	5.3
SBD-163	16	3/8 SAE	4.2	4.6	3.0
SBD-163S	16	3/8 ODF	4.8	5.2	3.4
SBD-164	16	1/2 SAE	7.1	7.7	5.0
SBD-164S	16	1/2 ODF	7.5	8.1	5.3
SBD-165	16	5/8 SAE	7.7	8.3	5.4
SBD-165S	16	5/8 ODF	8.0	8.7	5.7



SUCTION FILTER DRIERS

FEATURES:

- Designed for A/C System Clean Up
- Powder Paint Finish
- Porous Core
- Low Pressure Drop
- UL listed
- High Acid Capacity
- Copper ends

PART NO.	SIZE CU, IN.	CONNECTIONS	CARTON SIZE
SSK-1655SV	16	5/8	25
SSK-1665SV	16	3/4	25
SSK-1675SV	16	7/8	25



DRIER FILTER SHELL

FEATURES:

- Designed for A/C system cleanup
- Powder paint finish
- Porous core
- Low pressure drop
- UL listed
- High acid capacity



FILTER DRIER CORES AND FILTERS

FEATURES:

- Water capacities to suit specific system conditions
- Exceptional acid capacities for normal system
- Protection, or to effectively clean-up following compressor burnout
- Activated carbon blend for soluble contaminant



PART NO.	RECOMMENDED REFRIGENT TYPE	FUNCTION	WATER CAPACITY DROPS OF WATER													
			R-12		R-134A		R-22		R-407C		R-404A/R-507		R-410A		R-502	
S48	CFC, HCFC	HIGH ACID REMOVAL	810	453	415	340	363	254	225	95	457	343	210	86	388	225
SH48	CFC, HCFC	HIGH ACID & WATER REMOVAL	1020	688	676	538	597	436	445	285	721	535	380	226	643	475
SHH48	CFC, HCFC, HFC	UNIVERSAL REPLACEMENT	1579	1319	1272	1168	1181	1072	1033	786	1319	1241	976	707	1332	1150
SH100	CFC, HCFC	HIGH ACID & WATER REMOVAL	1958	1225	1112	834	962	673	726	418	1199	839	672	364	1109	758
SHH100	CFC, HCFC, HFC	UNIVERSAL REPLACEMENT	3204	2740	2769	2550	2574	2345	2182	1682	2868	2710	-	-	2787	2437

SUCTION ACCUMULATORS

FEATURES:

- Prevents compressor damage caused by liquid slugging of refrigerant and oil
- Positive oil return at all rated conditions
- Designed for operation as low as -40C evaporator temperature
- Low pressure drop
- Acts as a suction muffler
- Suction gas temperature as low as -12C at the accumulator



PART NO.	CONNECTIONS ODF SOLDER : INCHES	DIAMETER: IN	LENGTH: IN
SAL08	1/2"	18.74	8.00
SAL10	5/8"	18.74	10.00
SAL12	3/4"	5.00	12.00
SAL16	7/8"	5.00	13.00
SAL18	1 1/8"	5.00	17.00
SAL19	1 3/8"	5.98	14.00
SAL20	1 5/8"	5.98	20.00



OIL SEPERATORS

FEATURES:

- Hermetic construction
- Copper ODF connections
- Accurate and percise system (float, valve, & needle)
- Stainless steel construction
- Epoxy paint
- Complies with UL standards



Part NO.	Connections: ODF	Height: cm	Dimensions: cm		NOMINAL CAPACITY UNDER THE APPOINTED TEM- PERATURE: (KW)						VOLUME LIT.
			Diameter: cm	R22 / R407C		R-134a		R-404A / R 507			
				-40''f	+40''f	-40''f	+40''f	-40''f	+40''f		
SOIL04	1/2"	25.9	10.2	5.28	7.03	3.52	6.15	5.28	7.03	2.1	
SOIL05	5/8"	36	10.2	15.83	19.34	11.43	15.83	16.71	20.22	2.92	
SOIL07	7/8"	44.9	10.2	24.62	28.14	16.71	22.86	26.38	29.89	3.64	
SOIL09	1 1/8"	53.4	10.2	31.65	38.69	22.86	29.89	33.41	40.45	4.33	
SOIL11	1 3/8"	53.4	10.2	40.45	49.24	28.14	39.86	42.2	51	4.33	
SOIL13	1 5/8"	47.4	15.2	56.27	63.31	41.32	56.27	70.34	84.41	8.64	
SOIL17	2 1/8"	47.4	15.2	87.93	105.51	63.31	88.8	105.51	123.1	8.64	



SIGHT GLASSES

FEATURES:

- Moisture indication for Refrigerant R22, R404A, R407C, R 410A, R502 or R507
- Shows refrigerant status which is useful for correct diagnostics of the system
- Large full view sight glass



SWEAT CONNECTION

PART NO.	SIZE	LENGTH
SEG04S-UL	1/4"	4"
SEG06S-UL	3/8"	4-5/8"
SEG08S-UL	1/2"	5-3/4"
SEG10S-UL	5/8"	5-3/4"
SEG12S-UL	3/4"	5-3/4"
SEG14S-UL	7/8"	6-3/4"

FLARE CONNECTION

PART NO.	SIZE	LENGTH
SEG04F-UL	1/4"	2 3/4"
SEG06F-UL	3/8"	3"
SEG08F-UL	1/2"	3 1/4"