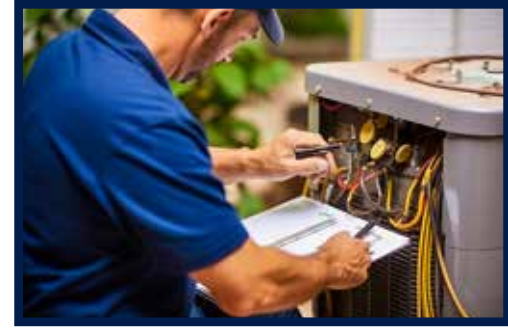


HVACR Component and Refrigerant Matrix

Quick Reference

FORM 5-541 / 61324



With all the numerous refrigerant options in the HVACR industry, it's important to know which system components are compatible. To ease in your product selection, Sporlan provides this document as a reference to use when selecting Sporlan HVACR components for a specific refrigerant.

REFRIGERANT TYPE (SAFETY CLASS)																	
REFRIGERANT (SPORLAN LETTER CODE)	HFO	HFO	HFO	N	HFC	HFC	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	N	REFERENCE MATERIALS	
REFRIGERANT TYPE	R1233zd	R1234yf	R1234ze	R290	R32	R410A	R448A	R449A	R454A	R454B	R454C	R455A	R513A	R515B	R744		
LETTER CODE	J	C		O	Z	Z	D	D	T	Y	V	V	J	C			
SAFETY CLASS	A1	A2L	A2L	A3	A2L	A1	A1	A1	A2L	A2L	A2L	A2L	A1	A1	A1		
GWP (AR4)	1	1	1	3	675	2,088	1,387	1,397	237	466	146	145	631	299	1		
TEV - Thermostatic Expansion Valves																	
BBI		X		X	X	X	X	X	X	X	X	X	X			–	F210-10-13 F210-10-14 F210-10-15
HX, FX					X	X				X						–	F010-10-29 F010-10-32
NX		X		X			X	X	X		X	X	X			10-10-10	F010-10-31
ER, SR		X		X	X	X	X	X	X	X	X	X	X			10-10-8	F210-10-13 F210-10-14 F210-10-15
S		X	X				X	X	X		X	X	X	X		10-10	F210-10-15
EBS		X	X	X		X	X	X	X		X	X	X	X		10-10	F210-10-13 F210-10-14 F210-10-15 F210-10-16
Q, EQ, SQ		X					X	X	X		X	X	X			10-10	F210-10-15
BQ, EBQ, SBQ		X		X	X	X	X	X	X	X	X	X	X			10-10	F210-10-13 F210-10-14 F210-10-15
EF		X		X			X	X	X		X	X	X			10-10	F210-10-15
G, EG		X					X	X	X		X	X	X			10-10	F210-10-15
EBF, SBF		X			X	X	X	X	X		X	X	X			10-10	F210-10-15
O		X	X	X	X	X	X	X	X	X	X	X	X	X		10-10	F210-10-13 F210-10-14 F210-10-15 F210-10-16
RD - Distributors																	
11xx and 16xx Series	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	20-10	–
BV - Ball Valves																	
EBVP		X	X	X	X	X	X	X	X	X	X	X	X	X	X	H1	–
EBV(T)-PR		X	X	X	X	X	X	X	X	X	X	X	X	X	X	50-10-1	–
Couplings																	
5400	X	X	X	X	X	X	X	X	X	X	X	X	X	X		0-1	
5500	X	X	X	X	X	X	X	X	X	X	X	X	X	X		0-1	
5700	X	X	X	X	X	X	X	X	X	X	X	X	X	X		0-1	
Copper Check Valves																	
CV Series	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N/A	–
ZoomLock																	
ZoomLock Max		X	X		X	X	X	X	X	X	X	X	X	X		K-3	
ZoomLock Push					X	X	X	X	X	X	X	X	X	X		K-2	
Electronics - Kelvin II Controller																	
Superheat	X	X	X		X	X	X	X	X	X	X	X	X	X	X	100-50-5	100-50-5.1
Subcool	X	X	X			X	X	X	X	X	X	X	X	X	X	100-50-5	100-50-5.2
Pressure	X	X	X			X	X	X	X	X	X	X	X	X	X	100-50-5	100-50-5.5
Chiller	X	X	X			X	X	X	X	X	X	X	X	X	X		
Temperature	X	X	X			X	X	X	X	X	X	X	X	X	X	100-50-5	100-50-5.3
Electronics - S3C Controller																	
S3C Case Controller				X		X	X	X	X	X	X	X	X	X	X	100-50-9	100-50-9.1



ENGINEERING YOUR SUCCESS.

HVACR Component and Refrigerant Matrix (Continued)

REFRIGERANT TYPE (SAFETY CLASS)

REFRIGERANT (SPORLAN LETTER CODE)	HFO	HFO	HFO	N	HFC	HFC	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	HFC/HFO	N	REFERENCE MATERIALS	
REFRIGERANT TYPE	R1233zd	R1234yf	R1234ze	R290	R32	R410A	R448A	R449A	R454A	R454B	R454C	R455A	R513A	R515B	CO2	Bulletin	Fieldman Bulletin
LETTER CODE	J	C	O	Z	Z	D	D	T	Y	V	V	J	C	R744			
SAFETY CLASS	A1	A2L	A2L	A3	A2L	A1	A1	A1	A2L	A2L	A2L	A2L	A1	A1	A1		
GWP (AR4)	1	1	1	3	675	2,088	1,387	1,397	237	466	146	145	631	299	1		

Electric Stepper Motor Valves

SER-AA thru SER-D		X	X		X	X	X	X	X	X	X	X	X	X	X	100-20 100-20-1 100-20-2	-
SERI-F thru SERI-L		X	X		X	X	X	X	X	X	X	X	X	X	X	100-20 100-20-4	F100-20-12 F100-20-13 F100-20-14
SEHI-175		X	X		X	X	X	X	X	X	X	X	X	X		100-20	F100-20-14
SEH-P		X	X		X	X	X	X	X	X	X	X	X	X		100-20-5	F100-20-12 F100-20-14
SEHI-400		X	X		X	X	X	X	X	X	X	X	X	X		100-20	F100-20-12 F100-20-14
SEHI-T		X	X		X		X	X	X	X	X	X	X	X		100-20-7	F100-20-12 F100-20-14
SER-AA-HP thru SER-C-HP		X	X		X	X	X	X	X	X	X	X	X	X	X	100-20-1 100-20-2	-
CDS	X	X	X		X	X	X	X	X	X	X	X	X	X	X	100-40	F100-20-14
GCM															X	100-595	-
GC-10 - 50															X	100-80	-
FGB-60 - 70															X	100-80	-

SV - Solenoid Valves

E-HP Series (E2S1 thru E43S1)	X	X	X		X	X	X	X	X	X	X	X	X	X	X	Catalog 410A 30-10-11 30-10-12 30-10-14	F30-10-8 F30-10-9
Three-way Valves (B5D, 8D, 12D, 16D)	X	X	X		X	X	X	X	X	X	X	X	X	X		30-20	F30-10-11
Pulse Width Solenoid (SPW)	X	X	X		X	X	X	X	X	X	X	X	X	X	X	30-30	-

PRV - Pressure Regulating Valves

CRO(T)		X	X	X			X	X	X		X	X	X	X		90-10	-
(A)DRI, (A)DRH, (A)DRP, (A)DRS		X	X	X			X	X	X		X	X	X	X		90-40	-
ORI, ORD		X	X	X	X		X	X	X	X	X	X	X	X		90-30	-
LAC		X	X	X	X		X	X	X	X	X	X	X	X		90-30	-
HGBE-1,5,6 (ATEX)		X	X	X	X		X	X	X	X	X	X	X	X		Catalog 410A (HGBE-5 only)	-
HGBE-8		X	X	X	X		X	X	X	X	X	X	X	X		Catalog 410A	-
SHGBE-8,15		X	X	X			X	X	X	X	X	X	X	X		90-40	-
ORIT		X	X	X			X	X	X	X	X	X	X	X		90-20	F290-20-1

CAF - Filter-Driers

Catch-All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
90HP Series Catch-All															X		

Filters

Suction Filter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	80-10	F240-10-19
Oil Filter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	110-10	F240-10-19
90HP Series Oil Filter															X		

SA - Sight Glasses / Moisture Indicators

SA-12 thru SA-217	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	70-10	F270-10-1
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Accumulators and Receivers

VA, PA, & VPA Series	X	X	X		X	X	X	X	X	X	X	X	X	X		C-1	
RT & PR Series	X	X	X		X	X	X	X	X	X	X	X	X	X		C-1	

