

ELECTRONIC EXPANSION VALVES

Type **UKV-F**

High Volume OEM Item

Application : Residential air conditioner, etc

Refrigerant : R134a, R404A, R407C, R410A
R32, R1234yf, R454B, R454C

*Other refrigerants may be available upon request.

- With internal check valve function
- Power Saving Design
- Compact & Lightweight
- High cool down capability
- Quick response
- UL Recognized



SAGInoMIYA

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SPECIFICATIONS

Max. working pressure: 609 psi[4.2MPa]

Valve operating pulse range: 0 to 500 pulse, 1–2 phase excitation

Fluid temperature: -22 to 158°F[-30 to 70°C]

TYPE NUMBER SELECTION

Type UKV-F – With internal check valve function

Catalog No.	Port Size (ϕ inch [mm])	Capacity (U.S.R.T.) {kW}				Connection (Solder) (inch[mm])		Operating Pressure Differential (psi[MPa])		Cv Value Flow Direction A to B Full opening position	Wt. (lb[kg])
		R134a	R404A	R407C	R410A	B side	A side	B to A	A to B		
UKV-F19DU	0.07[1.9]	2.3 {8.1}	2.1 {7.3}	3.0 {10.6}	3.4 {12.1}	ϕ 5/16[7.94] OD		0 to 480 [0 to 3.3]	N/A	0.47	0.11 [0.05]
UKV-F25DU	0.10[2.5]	3.7 {12.9}	3.3 {11.6}	4.8 {16.9}	5.5 {19.4}						
UKV-F32DU	0.13[3.2]	5.0 {17.7}	4.5 {16.0}	6.6 {23.3}	7.6 {26.6}						

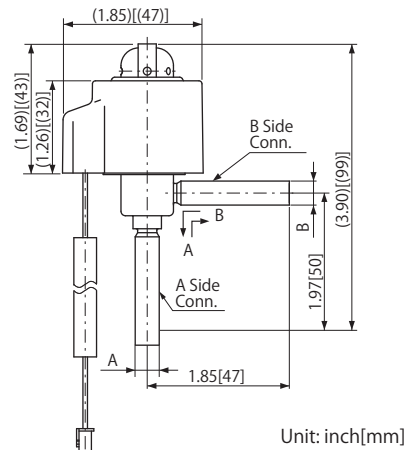
• Capacity: Based on CT = 100°F[38°C], ET = 41°F[5°C], SC = 0 K and SH = 0 K

Coil

Rated Voltage & Current	Wt.(lb[kg])
12V DC...260mA/Phase	0.29[0.13]

• Protection structure: IP66

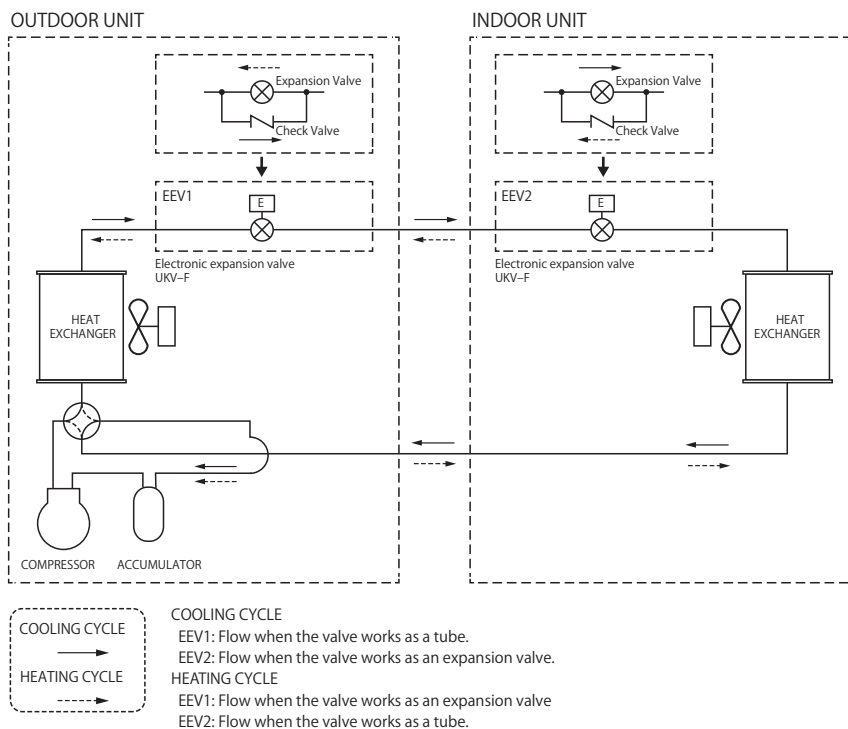
DIMENSIONS



B → A: Flow when the valve works as an expansion valve.
A → B: Flow when the valve works as a tube.

Catalog No.	A	B
UKV-F19DU	ϕ 5/16[7.94]	
UKV-F25DU		
UKV-F32DU		

APPLICATION EXAMPLE



NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.

SAGINOMIYA
AMERICA, INC.

655 Metro Place South Suite 220, Dublin, Ohio 43017, U.S.A.

Tel: +1-614-766-7390 Fax: +1-614-766-7391

E-mail: Sales@saginomiya-am.com URL: <http://www.saginomiya-global.com/en/>

Dallas Office: 3201 Dallas Pkwy Suite 200, Frisco, Texas 75034, U.S.A.

Tel: +1-614-766-7390(Ext)1201 Fax: +1-614-766-7391

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