

ExV Families Review

	E2V					new E2V smart Z-series	E2V smart	E2V for transcritical CO2	E2V for ammonia	E3V	E3V smart	E3V for transcritical CO2	E4V	E5V	E6V	E7V	ExV for high temperatures		
Application																			
Refrigerants	RFC - RFO	RFC - RFO	RFC - RFO	R744 - RFC - RFO	R744 - RFC - RFO	RFC - RFO ²⁾	RFC - RFO ²⁾	R744 (trans-critical CO2)	R723 - RFC	RFC - RFO	RFC - RFO ²⁾	R744 (trans-critical CO2)	RFC	RFC	RFC	RFC	RFC - RFO ²⁾	RFC - RFO ²⁾	RFC
Drive type	Impeller Rotor	Impeller Rotor	Impeller	Impeller Rotor	Impeller Rotor	Impeller Rotor	Impeller Rotor	Impeller	Impeller Rotor	Impeller Rotor	Impeller Rotor	Impeller	Impeller	Impeller	Impeller	Impeller	Impeller	Impeller	Impeller
Capacity (kW/Tons)	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3	0.28-0.9 / 0.01-0.3
KV (m ³ /h) (DOP-15w / CV (m ³ /h) (DOP-15w)	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.47 / 0.01-0.56	0.01-0.47 / 0.01-0.56	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	0.01-0.37 / 0.01-0.43	1.5-2.5 / 1.8-2.9	4.2-6.1 / 4.9-7.1	9.5-11.7 / 11.0-13.3	15.6-18.9 / 18.0-21.9	0.01-0.47 / 0.01-0.56	0.01-0.37 / 0.01-0.43	1.5-2.5 / 1.8-2.9
Max. flow (m ³ /h)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2) (C1)	45/50 (D1) 60/70 (D2) (C1)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	140/200	45/50	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	120/170 (D1) 140/200 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)	45/50 (D1) 60/70 (D2)
Max. flow (bar/PSI)	35/508	35/508	35/508	35/508	35/508	35/508	35/508	120/1740	35/508	35/508	35/508	35/508	35/508	35/508	35/508	35/508	35/508	35/508	35/508
Refrigerant temperature	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F	-40/70°C -40/158°F
Installation environment temperature	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F	-30/70°C -22/158°F
Material	Copper	Copper	Brass	Copper	Brass/Copper	Copper	Copper	AlSi10Mg	AlSi10Mg	Copper	Copper	AlSi10Mg	Copper	Copper	Copper	Copper	Copper	Copper	Copper
Fittings	bracing	bracing	SAE flare connection	bracing	SAE flare/bracing	bracing	bracing	TIG welding/ beagtek for CS2 models	TIG welding	bracing	bracing	TIG welding	bracing	bracing	bracing	bracing	bracing	bracing	bracing
Diameter	Ø16mm (5/8") GDF Ø19mm (3/4") GDF	Ø12mm (1/2") GDF Ø16mm (5/8") GDF	3/8"	Ø12mm GDF	3/8" (SAE)/1/2" GDF	Ø12mm GDF Ø16mm (5/8") GDF	Ø12mm GDF Ø16mm (5/8") GDF	Ø16 10mm/ Ø16 12mm for CS2 models	Ø16 10mm/ Ø16 12mm for CS2 models	Ø16mm (5/8") Ø12mm (1/2")	Ø16mm (5/8") GDF Ø12mm (1/2") GDF	5/8" GDF 7/8" GDF	Ø28 20mm GDF Ø32mm (5/8") GDF	Ø16mm GDF	1 1/8" GDF Ø16mm GDF	1 1/8" GDF Ø16mm GDF	Ø12mm GDF Ø16mm (5/8") GDF	Ø12mm GDF Ø16mm (5/8") GDF	Ø12mm GDF Ø16mm (5/8") GDF
Maximum flow	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for Ø12mm E2VFL0200 - A100A 100µm for Ø16mm	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for Ø12mm E2VFL0200 - A100A 100µm for Ø16mm	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for 3/8"	Optional accessory (for side port only): E2VFL0200 - A100A 100µm	Optional accessory (for side port only): E2VFL0200 - A100A 100µm	Standard - A100A 100µm	Standard - A100A 100µm	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for CS2	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for CS2	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for CS2	Optional accessory (for side port only): E2VFL0200 - A100A 100µm for CS2	Standard - A100A 100µm	Standard - A100A 100µm	n.a.	n.a.	n.a.	n.a.	Standard - A100A 100µm	Standard - A100A 100µm
Leakage rate	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50	Internal ¹⁾ - direct flow +50
	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50	Internal ¹⁾ - reverse flow +50
	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3	External ²⁾ +3

Notes:
 [1] Without sight glass
 [2] Specific models
 [3] Capacity refers to: R410A, t_{ev} = 3.2°C (40°F), t_{cond} = 44.4°C (112°F), SC = 1X (1.8°F)
 [4] Up to size 4S
 [5] Nominal Diameter Size
 [6] Internal leakage rate (cm³/min) of R2 @ DP30bar
 [7] External Leakage rate (g/yr) of R134a @ P=45bar