

Performance

Application : Low Back Pressure

Refrigerant : R600a (CH₃CH(CH₃)CH₃)

Evaporator Temperature Range : -35°C to -5°C

Series	Model	Displacement (cm ³)	Speed (rps)	ASHRAE		P-REF		J-REF		
				Capacity	COP	Capacity	COP	Capacity	COP	
				W	W/W	W	W/W	W	W/W	
TK	TKB91E20DAH	9.1	27	-	-	68	2.03	99	2.48	
			37	-	-	-	-	-	-	
	TKB91E23DAH	9.1	27	-	-	68	2.04	99	2.49	
			37	-	-	93	1.99	-	-	
	TKA76E20DAH	7.6	27	-	-	58	1.99	-	-	
			37	-	-	78	1.92	-	-	
	TKA76E23DAH	7.6	27	-	-	58	2.00	-	-	
			37	-	-	78	1.93	-	-	
	TKA91E23DAH	9.1	27	-	-	68	2.02	-	-	
			37	-	-	93	1.97	-	-	
	TRA	TRA91E20DAH	9.1	27	-	-	67	2.01	-	-
				37	-	-	93	1.97	-	-
TRA120E23DAH		12.0	27	-	-	92	2.03	-	-	
			37	-	-	-	-	-	-	

TESTING CONDITION	ASHRAE	P-REF	J-REF
Condensing Temperature :	54.4 °C	40 °C	38 °C
Evaporating Temperature :	-23.3 °C	-30 °C	-23.3 °C
Gas Superheated to :	32.2 °C	32.2 °C	32.2 °C
Liquid Subcooled to :	32.2 °C	32.2 °C	32.2 °C
Ambient Temperature :	32.2 °C	32.2 °C	32.2 °C

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				Capacity	COP	Capacity	COP	Capacity	COP
				W	W/W	W	W/W	W	W/W
ER	ERI68E13DCHA	6.8	27	-	-	50	1.90	-	-
			37	-	-	-	-	-	-
	ERI76E13DBH	7.6	27	-	-	55	1.92	-	-
			37	-	-	78	1.90	-	-
	ERI91E13DBH	9.1	27	-	-	67	1.98	-	-
			37	-	-	93	1.94	-	-
	ERI91E13DCH	9.1	27	-	-	67	1.99	-	-
			37	-	-	93	1.95	-	-
	ERI91E13DFH	9.1	27	-	-	67	1.89	-	-
			37	-	-	-	-	-	-
	ERI91E13DGH	9.1	27	-	-	67	1.96	-	-
			37	-	-	-	-	-	-
	ERI100E13DBH	10.0	27	-	-	77	1.98	-	-
			37	-	-	104	1.94	-	-
	ERI100E13DCH	10.0	27	-	-	77	1.99	-	-
			37	-	-	-	-	-	-
ERI100E13DFH	10.0	27	-	-	77	1.91	-	-	
		37	-	-	-	-	-	-	
ERI100E13DGH	10.0	27	-	-	77	1.97	-	-	
		37	-	-	-	-	-	-	
ERI120E13DBH	12.0	27	-	-	92	1.99	-	-	
		37	-	-	126	1.95	-	-	
ERI120E13DCH	12.0	27	-	-	92	2.00	-	-	
		37	-	-	-	-	-	-	
EE	EEI68E13DCH	6.8	27	-	-	50	1.82	-	-
			37	-	-	-	-	-	-
	EEI76E13DCH	7.6	27	-	-	55	1.85	-	-
			37	-	-	78	1.82	-	-
	EEI91E13DAH	9.1	27	-	-	67	1.89	-	-
37			-	-	92	1.87	-	-	

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Evaporator Temperature Range : -35°C to -5°C

Series	Model	Displacement (cm ³)	Speed (rpm)	ASHRAE		P-REF		J-REF	
				Capacity	COP	Capacity	COP	Capacity	COP
				W	W/W	W	W/W	W	W/W
EE	EEI91E13DBH	9.1	27	-	-	67	1.90	-	-
			37	-	-	92	1.88	-	-
	EEI91E13DCH	9.1	27	-	-	67	1.91	-	-
			37	-	-	92	1.89	-	-
	EEI91E13DFH	9.1	27	-	-	67	1.83	-	-
			37	-	-	-	-	-	-
	EEI91E13DSH	9.1	27	-	-	67	1.76	-	-
			37	-	-	-	-	-	-
	EEI91E13DWH	9.1	27	-	-	67	1.82	-	-
			37	-	-	92	1.79	-	-
	EEI100E13DAH	10.0	27	-	-	77	1.89	-	-
			37	-	-	107	1.87	-	-
	EEI100E13DCH	10.0	27	-	-	77	1.92	-	-
			37	-	-	107	1.90	-	-
	EEI100E13DDH	10.0	27	-	-	77	1.88	-	-
			37	-	-	-	-	-	-
	EEI100E13DFH	10.0	27	-	-	77	1.84	-	-
			37	-	-	107	1.82	-	-
EEI100E13DJH	10.0	27	-	-	77	1.84	-	-	
		37	-	-	107	1.82	-	-	
EEI100E13DWH	10.0	27	-	-	77	1.80	-	-	
		37	-	-	-	-	-	-	
EF	EFI100E13DAH	10.0	27	-	-	75	1.84	-	-
			37	-	-	104	1.77	-	-
	EFI100E13DCH	10.0	27	-	-	76	1.82	-	-
			37	-	-	-	-	-	-
	EFI100E13DGH	10.0	27	-	-	75	1.84	-	-
			37	-	-	-	-	-	-
EFI100E13DHH	10.0	27	-	-	76	1.87	-	-	
		37	-	-	104	1.81	-	-	

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Evaporator Temperature Range : -35°C to -5°C

Series	Model	Displacement (cm ³)	Speed (rps)	ASHRAE		P-REF		J-REF		
				Capacity	COP	Capacity	COP	Capacity	COP	
				W	W/W	W	W/W	W	W/W	
EF	EF100E13DJH	10.0	27	-	-	76	1.80	-	-	
			37	-	-	104	1.74	-	-	
	EF120E13DCH	12.0	27	-	-	90	1.78	-	-	
			37	-	-	-	-	-	-	
	EF120E13DGH	12.0	27	-	-	90	1.84	-	-	
			37	-	-	-	-	-	-	
EJ	EJ100E13DAH	9.1	27	-	-	67	1.83	-	-	
			37	-	-	93	1.77	-	-	
	EJ100E13DJH	9.1	27	-	-	67	1.79	-	-	
			37	-	-	93	1.73	-	-	
	EJ100E13DAH	10.0	27	-	-	75	1.87	-	-	
			37	-	-	104	1.83	-	-	
	EJ100E13DBH	10.0	27	-	-	75	1.89	-	-	
			37	-	-	104	1.84	-	-	
	EK	EK100E13DCH	5.7	27	-	-	40	1.62	-	-
				37	-	-	54	1.58	-	-
EK100E13DAH		10.0	27	-	-	75	1.83	-	-	
			37	-	-	-	-	-	-	
EK100E13DBH		10.0	27	-	-	76	1.86	-	-	
			37	-	-	104	1.80	-	-	
EK120E13DBH		12.0	27	-	-	90	1.88	-	-	
			37	-	-	124	1.84	-	-	
EL	EL100E13DAH	9.1	27	-	-	67	1.93	-	-	
			37	-	-	94	1.91	-	-	
	EL100E13DBH	9.1	27	-	-	67	1.91	-	-	
			37	-	-	94	1.92	-	-	
	EL100E13DCH	9.1	27	-	-	67	1.94	-	-	
			37	-	-	94	1.92	-	-	
EN	EN100E13DEH	9.1	27	-	-	64	1.61	-	-	
			37	-	-	-	-	-	-	

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Series	Model	Displacement (cm ³)	Speed (rps)	ASHRAE		P-REF		J-REF	
				Capacity	COP	Capacity	COP	Capacity	COP
				W	W/W	W	W/W	W	W/W
EN	ENI100E13DAH	10.0	27	-	-	74	1.82	-	-
			37	-	-	-	-	-	-
	ENI100E13DCH	10.0	27	-	-	74	1.62	-	-
			37	-	-	-	-	-	-
	ENI100E13DEH	10.0	27	-	-	74	1.67	-	-
			37	-	-	-	-	-	-
ET	ETI57R13DCH	5.7	29*	-	-	192	3.37	-	-
			37	-	-	-	-	-	-
ET	ETI100E13DBH	10.0	27	-	-	72	1.62	-	-
			37	-	-	-	-	-	-
	ETI100E13DCH	10.0	27	-	-	72	1.57	-	-
			37	-	-	-	-	-	-
	ETI100E13DJH	10.0	27	-	-	73	1.56	-	-
			37	-	-	-	-	-	-

<u>TESTING CONDITION</u>	<u>ASHRAE</u>	<u>P-REF</u>	<u>J-REF</u>	<u>ETI57R*</u>
Condensing Temperature	: 54.4 °C	40 °C	38 °C	54.4 °C
Evaporating Temperature	: -23.3 °C	-30 °C	-23.3 °C	7.2 °C
Gas Superheated to	: 32.2 °C	32.2 °C	32.2 °C	46.1 °C
Liquid Subcooled to	: 32.2 °C	32.2 °C	32.2 °C	35.0 °C
Ambient Temperature	: 32.2 °C	32.2 °C	32.2 °C	35.0 °C

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Series	Model	Displacement (cm ³)	Speed (rps)	ASHRAE		P-REF		J-REF	
				Capacity	COP	Capacity	COP	Capacity	COP
				W	W/W	W	W/W	W	W/W
SV	SVA73E23DAH	7.3	27	-	-	52	1.73	-	-
			37	-	-	-	-	-	-

<u>TESTING CONDITION</u>	<u>ASHRAE</u>	<u>P-REF</u>	<u>J-REF</u>
Condensing Temperature :	54.4 °C	40 °C	38 °C
Evaporating Temperature :	-23.3 °C	-30 °C	-23.3 °C
Gas Superheated to :	32.2 °C	32.2 °C	32.2 °C
Liquid Subcooled to :	32.2 °C	32.2 °C	32.2 °C
Ambient Temperature :	32.2 °C	32.2 °C	32.2 °C

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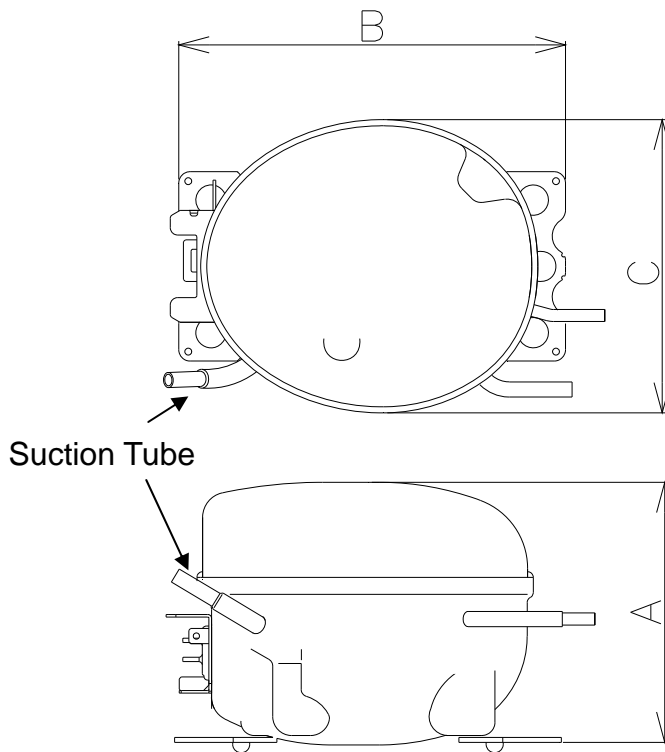
Dimensions

Appearance (Representative)

Rated Voltage / Frequency	Dimension (mm)			Mount	
	A	B	C	Dia. (mm)	Pitch (mm)
DC Motor	139	204	155	Ø16 * 6	70 * 170

Tube Dimension (Representative)

Rated Voltage / Frequency	ID / OD (mm)			Location of Suction Tube
	Discharge	Suction	Process	
DC Motor	4.9 / 7.0	6.5 / 7.94	6.5 / 7.94	Left Side



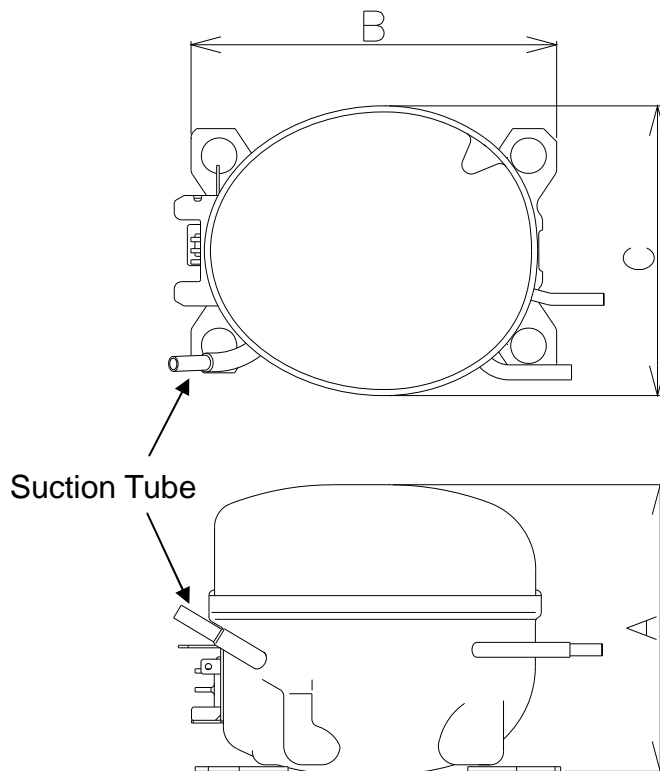
Dimensions

Appearance (Representative)

Rated Voltage / Frequency	Dimension (mm)			Mount	
	A	B	C	Dia. (mm)	Pitch (mm)
DC Motor	155	195	155	Ø19 * 4	102 * 165

Tube Dimension (Representative)

Rated Voltage / Frequency	ID / OD (mm)			Location of Suction Tube
	Discharge	Suction	Process	
DC Motor	4.9 / 7.0	6.5 / 8.3	6.5 / 7.94	Left Side



Dimensions

Appearance (Representative)

Rated Voltage / Frequency	Dimension (mm)			Mount	
	A	B	C	Dia. (mm)	Pitch (mm)
DC Motor	142	192	149	Ø19 * 4	102 * 165
				Ø16 * 4	70 * 170

Tube Dimension (Representative)

Rated Voltage / Frequency	ID / OD (mm)			Location of Suction Tube
	Discharge	Suction	Process	
DC Motor	4.9 / 7.0	6.54 / 7.94	6.54 / 7.94	Left Side

