



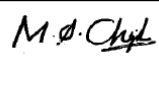
# PRODUCT SPECIFICATION

COMPRESSOR MODEL

**CS10K6ME-TF5-XXXXX**

**Emerson Climate Technologies (India) Limited**  
**INDIA**

Note: Sales compressor drawing number and compressor model name are the same.

DVM				01	F45-0820-0072 EN No.	A2 04.08.2020
Prepared by	Checked by Sunil Sutar	Verified by Abhijeet Kulkarni	Approved by Manoj Chiplunkar	Page No.	<b>CS10K6ME-TF5-XXXXX</b> DOCUMENT No.	

**PRODUCT SPECIFICATION****MODEL : CS10K6ME-TF5-XXXXX****A) MODEL DESCRIPTION**



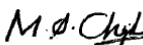
<b>Model Name</b>	<b>CS10K6ME-TF5-XXXXX</b>
<b>Compressor Type</b>	Reciprocating, Connecting Rod Type
<b>Application Group</b>	Medium Temp
<b>Evaporating Temperature Range</b>	(-)31.7 °C To (-)1.1 °C Or (-)25 °F To 30 °F
<b>Refrigerant</b>	R-404A
<b>Rated Voltage</b>	200-240 V, 50 Hz, 3 Phase 200-230 V, 60 Hz, 3 Phase
<b>Compressor Cooling</b>	Fan : 400 ft <sup>3</sup> / minute
<b>Typical Application</b>	Cold Room Application
<b>*Certifications &amp; Approvals</b>	---

**B) PERFORMANCE SPECIFICATION @ RATED CONDITION**

Parameter	Unit	ARI	
		50 Hz	60 Hz
Cooling Capacity	Btu / h	8500	9900
	kcal / h	2142	2495
	W	2489	2899
Input Power	W	1420	1610
Input Current	A	5.8	5.4
EER = $\frac{\text{Cooling Capacity}}{\text{Input Power}}$	Btu / W-h	5.99	6.15
	kcal / W-h	1.51	1.55
	W / W	1.75	1.80

Note: Above Performance Parameters are Nominal Values & subject to  $\pm 5\%$  variation.**C) RATING CONDITIONS**

Parameter	Unit	ARI-MBP
Evaporating Temperature	°C (°F)	-6.7 (20)
Condensing Temperature	°C (°F)	48.9 (120)
Ambient Temperature	°C (°F)	35 (95)
Sub-cooled Liquid Temperature	°C (°F)	48.9 (120)
Return Gas Temperature	°C (°F)	4.4 (40)
Test Voltage	V	220 @ 50Hz
		230 @ 60Hz

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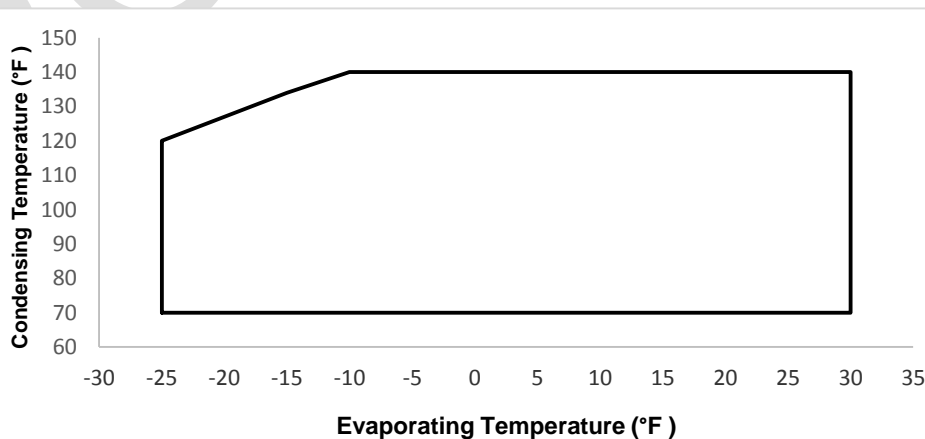
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**PRODUCT SPECIFICATION****MODEL : CS10K6ME-TF5-XXXXX****D) MECHANICAL SPECIFICATIONS**

Parameter	Unit	Value
Number of Cylinders	Number	Two (2)
Displacement	cm <sup>3</sup> (inch <sup>3</sup> ) / rev	40.80 (2.490)
Net Weight	kg	29.5
Approximate Shipping Weight	kg	30.0
Oil Charge	cm <sup>3</sup> (Oz)	1,330 (45)
Oil Type	Refrigeration Grade	POE
IPRV (Pressure Differential)	kg/cm <sup>2</sup> (psig)	31.64 / 38.67 (450 / 550)
Crank - Case Heater	W @ V	40 @ 240 for CS10K6ME-TF5-XX2 40 @ 480 for CS10K6ME-TF5-XX3

**E) ELECTRICAL SPECIFICATIONS**

Parameter	Unit	Value
Operating Voltage Range	V	180-242,50Hz 180-253,60Hz
Motor Circuit	---	Three Phase
Electrical Accessories	---	
➤ Start Capacitor	μF @ V AC	N/A
➤ Run Capacitor	μF @ V AC	N/A
➤ Relay	---	N/A
➤ Over Load Protector	---	Internal
Locked Rotor Ampere (LRA)	A	50A @ 50Hz 50A @ 60Hz
Maximum Continuous Current (MCC)	A	13.0
High Potential Test	(kV / second / mA)	2.3 / 1 / 5.5 ± 0.5

**F) OPERATING ENVELOPE @ 220/230 V, 50/60 Hz, 3 Phase**

DVM	<i>Sutar</i>	<i>Abhijeet</i>	<i>M. J. Chiplunkar</i>	03	F45-0820-0072 EN No.	A2 04.08.2020
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**PRODUCT SPECIFICATION****MODEL : CS10K6ME-TF5-XXXXX****P) PERFORMANCE SPECIFICATIONS**

Parameter	Unit	Value
Bare Compressor Sound	dBA	82.0 Maximum
Bare Compressor Vibration	µm	100.0 Maximum
Compressor Discharge Pulse	psi	6.0 Maximum

**Q) TEST CONDITIONS**

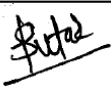
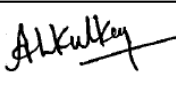
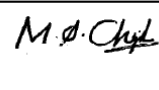
Parameter	Voltage	Suction Pressure	Discharge Pressure	Top Shell Temperature	Ambient Temperature
Test \ Unit	V	kg/cm <sup>2</sup> (psig)	kg/cm <sup>2</sup> (psig)	°C (°F)	°C (°F)
Overload ( High Load )	242,50Hz 253,60Hz	5.13 (73)	31.70 (451)	--	46 (115)
Blocked Fan	220,50Hz 230,60Hz	6.7 (95)	30.58 (435)	--	35 (95)
Low Voltage Start : Equalised	180,50Hz 180,60Hz	8 (114) 14.3 (203)	25.3 (360) 14.3 (203)	65 (149) 65 (149)	-- --
Low Voltage Run	180,50Hz 180,60Hz	5.13 (73)	31.70 (451)	--	46 (115)

Note: Above test conditions are only for reference. Refer operating envelop and maximum allowable discharge line temperature for safe operation of compressor.

**R) REFERENCE APPLICATION DETAIL CONDITIONS**

Parameter	Unit	Value
Maximum Allowable Ambient Temperature	°C (°F)	46 (115)
Maximum Discharge Line Temperature	°C (°F)	135 (275)
Maximum Return Gas Temperature	°C (°F)	43 (109)

Note: Application Details are the guidelines for safe operation of compressor.

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