

Sr. No.		Description	UOM (Wherever Applicable)	Data (Common For All Models)	KSC063	KSC079	KSC087	KSC100	KSC113	KSC126
A										
	1	Cooling Capacity	ton _R	Refer Teksel Software	-	-	-	-	-	-
	2	Power Consumption	kW	Refer Teksel Software	-	-	-	-	-	-
	3	Specific Power Consumption	kW/ton _R	Refer Teksel Software	-	-	-	-	-	-
	4	Co-Efficient of Performance (COP)	kW/kW	Refer Teksel Software	-	-	-	-	-	-
	5	No. of Compressors	Nos.	→	1	1	1	1	1	1
	6	No. of Individual Refrigerant Circuits	Nos.	→	1	1	1	1	1	1
	7									
	i	Name	-	R134a	-	-	-	-	-	-
	ii	Quantity	kg	Refer ESP-18-19-007	-	-	-	-	-	-
	iii	Technical Specifications	-	Refer ESP-18-19-003	-	-	-	-	-	-
	8									
	i	Noise Level	dB	Refer ESP-15-16-104	-	-	-	-	-	-
	ii	Measuring Standard	-	ANSI/AHRI Standard 575-2008	-	-	-	-	-	-
	9									
	i	Material	-	Closed Cell Nitrile Foam	-	-	-	-	-	-
	ii	Insulation Thickness on Various Parts	-	For Standard Temperature Range (LWT upto 3 OC)	-	-	-	-	-	-
		Evaporator Shell	mm	32	-	-	-	-	-	-
		Evaporator Tubesheet	mm	19	-	-	-	-	-	-
		Evaporator Dished End	mm	19	-	-	-	-	-	-
		Evaporator M.W.Box (If Applicable)	mm	19	-	-	-	-	-	-
		Evaporator Support Plate	mm	19	-	-	-	-	-	-
		Compressor Motor Body	mm	19	-	-	-	-	-	-
		Suction Line Assembly	mm	19	-	-	-	-	-	-
		Liquid Line Assembly	mm	9	-	-	-	-	-	-
	iv	Density	kg/m ³	76.6	-	-	-	-	-	-
	v	Thermal Conductivity	W/m.K	0.035 (at 0 OC Mean Temperature)	-	-	-	-	-	-
	vi	Standard	-	IS 14164	-	-	-	-	-	-
	vii	Adhesive	-	Blend of Synthetic Polymers and Synthetic Resin	-	-	-	-	-	-
	viii	Insulation Specifications	-	Refer ESP-18-19-004	-	-	-	-	-	-
	10									
	i	Vibration Level	mm/sec	Less than 1.5 mm/sec	-	-	-	-	-	-
	ii	Vibration control	-	Rubber Pads (Standard) / Spring Isolators (At an Additional Cost)	-	-	-	-	-	-
	iii	Standard	-	IS 12075	-	-	-	-	-	-
	11									
	i	Paint Type	-	RAL 7035	-	-	-	-	-	-
	ii	Standard	-	Coating as per KCPL Standards	-	-	-	-	-	-
	12									
	i	Approx. Length	mm	Refer General Arrangement & Foundation Detail Drawing	-	-	-	-	-	-
	ii									
	iii	Approx. Height	mm	Refer General Arrangement & Foundation Detail Drawing	-	-	-	-	-	-
	13									
	i	Plain End Side (For Tube Cleaning)	mm	Refer General Arrangement & Foundation Detail Drawing	-	-	-	-	-	-
	ii									
	iii	Overhead	mm	Refer General Arrangement & Foundation Detail Drawing	-	-	-	-	-	-
	14									
	i									
	ii	Approx. Operating Weight	kg	Refer General Arrangement & Foundation Detail Drawing	-	-	-	-	-	-
	15									
	i	Aluminum Cable	-	Refer ESP-14-15-01	-	-	-	-	-	-
	ii									
B										
	1	Make	-	Kirloskar Chillers Private Limited						
	2	Type / Description	-	Semi-Hermetic Centrifugal Compressor	-	-	-	-	-	-
	3									
	4	Drive	-	Gear Driven	-	-	-	-	-	-
	5	Compressor Speed	RPM	Refer "KSC-R134a-02" Sheet	-	-	-	-	-	-
	6									
	7	Type of Capacity Control	-	Stepless	-	-	-	-	-	-
	8	Capacity Control Mechanism	-	IGV	-	-	-	-	-	-
	9									
	10									
	i	Types of Bearings	-	Hydrodynamic Bearings - For Radial Load and Thrust Load	-	-	-	-	-	-
	ii	Material of Construction	-	Aluminum	-	-	-	-	-	-
	iii	Class of Bearing	-	Proprietary Data	-	-	-	-	-	-
	11			→						
	i	Type	-	Forced Lubrication by Oil Pump	-	-	-	-	-	-
	ii	Lubricating Oil	-	Synthetic Oil	-	-	-	-	-	-
	iii	Grade of Lubricating Oil	-	Proprietary Data	-	-	-	-	-	-
	iv									
	12									
	i	Impeller	-	Aluminum	-	-	-	-	-	-
	ii	Casing	-	Cast Iron	-	-	-	-	-	-
	iii	Shaft	-	Alloy Steel	-	-	-	-	-	-
	13									
	i	Impeller Diameter	mm	Refer "KSC-R134a-02" Sheet	-	-	-	-	-	-

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		iv	Test pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		v	Testing method (Refrigerant Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-
		vi	No. of Passes (Refrigerant Side)	Nos.	Single Pass	-	-	-	-	-	-
		vii									
		viii	Max. Operating Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		ix	Design Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		x	Test pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		xi	Testing method (Water Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-
		xii	No. of Passes (Water Side)	Nos.	Two Pass	-	-	-	-	-	-
		xiii	Water Velocity	m/s	Less than 3 m/s	-	-	-	-	-	-
		xiv	Inlet Pressure (Water Side)	bar	Depends on Site Piping Layout (Maximum Allowable - 9.4 bar)	-	-	-	-	-	-
		xv	Evaporating Temperature	°C	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-
7											
		i	Overall Length of Evaporator	ft	Refer "HX Details" Sheet	-	-	-	-	-	-
		ii									
		iii	Shell Thickness	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		iv	Approx. Shell Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		v									
		vi	Material Standard of Shell	-	Refer "MOC" Sheet	-	-	-	-	-	-
		vii	Tube Type/ Nature of Tube Surface	-	Integral Helical Fins on the Outside Surface and Integral Helical Ridges on the Inside Surface	-	-	-	-	-	-
		viii	Tube Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		ix	Tube Diameter	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		x	Tube Thickness	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		xi									
		xii	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-
		xiii	Water Volume in Evaporator	Liter	Refer Teksel Software	-	-	-	-	-	-
8											
		i	Type	-	Standard - Dish Ends (M.W.Box - Optional)	-	-	-	-	-	-
		ii	Material	-	Mild Steel	-	-	-	-	-	-
		iii	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-
		iv	Nozzle size	NB	Refer Teksel Software	-	-	-	-	-	-
		v	End connection	-	Standard - Victaulic Conn. (Flanged Conn. - Optional)	-	-	-	-	-	-
		vi	MOC of Water Side Gasket	-	NAM AF 120	-	-	-	-	-	-
		vii	MOC of Refrigerant Side Gasket	-	NAM AF 159	-	-	-	-	-	-
9											
		i	Pressure Relief Valve	-	Spring Loaded (For Safety Valve Set Pressure Refer ESP)	-	-	-	-	-	-
		ii	Drain/Vent Valves	Inch	Plugged Connection Provided (3/8" NPT)	-	-	-	-	-	-
H											
	1		Model	-	Refer Teksel Software	-	-	-	-	-	-
	2										
	3		Type	-	Shell and Tube Flooded Design	-	-	-	-	-	-
	4		Tube Side (Fluid)	-	Chilled Water	-	-	-	-	-	-
	5		Shell Side (Fluid)	-	Refrigerant	-	-	-	-	-	-
	6										
		i	Design Temperature (Refrigerant Side)	°C	100	-	-	-	-	-	-
		ii	Max. Operating Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		iii	Design Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		iv	Test pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		v	Testing method (Refrigerant Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-
		vi	No. of Passes (Refrigerant Side)	Nos.	Single Pass	-	-	-	-	-	-
		vii	Design Temperature (Water Side)	°C	100	-	-	-	-	-	-
		viii	Max. Operating Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		ix	Design Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-
		x									
		xi	Testing method (Water Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-
		xii	No. of Passes (Water Side)	Nos.	Two Pass	-	-	-	-	-	-
		xiii	Water Velocity	m/s	Less than 3 m/s	-	-	-	-	-	-
		xiv	Inlet Pressure	bar	Depends on Site Piping Layout (Maximum Allowable - 9.4 bar)	-	-	-	-	-	-
		xv	Condensing Temperature		Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-
7											
		i	Overall Length of Condenser	ft	Refer "HX Details" Sheet	-	-	-	-	-	-
		ii									
		iii	Shell Thickness	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		iv	Shell Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		v									
		vi	Material Standard of Shell	-	Refer "MOC" Sheet	-	-	-	-	-	-
		vii	Tube Type/ Nature of Tube Surface	-	Integral Helical Fins on the Outside Surface and Integral Helical Ridges on the Inside Surface	-	-	-	-	-	-
		viii	Tube Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		ix	Tube Diameter	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		x	Tube Thickness	mm	Refer "HX Details" Sheet	-	-	-	-	-	-
		xi									
		xii	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-
		xiii	Water Volume in Condenser	Liter	Refer Teksel Software	-	-	-	-	-	-
8											
		i	Type	-	Standard - Dish Ends (M.W.Box - Optional)	-	-	-	-	-	-

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		ii	Material	-	Mild Steel	-	-	-	-	-	-
		iii	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-
		iv	Nozzle size	NB	Refer Teksel Software	-	-	-	-	-	-
		v	End connection	-	Standard - Victaulic Conn. (Flanged Conn. - Optional)	-	-	-	-	-	-
		vi	MOC of Water Side Gasket	-	NAM AF 120	-	-	-	-	-	-
		vii	MOC of Refrigerant Side Gasket	-	NAM AF 159	-	-	-	-	-	-
	9										
		i	Pressure Relief Valve	-	Spring Loaded (For Safety Valve Set Pressure Refer ESP)	-	-	-	-	-	-
		ii	Drain/Vent Valves	Inch	Plugged Connection Provided (3/8" NPT)	-	-	-	-	-	-
I											
	1		Design Code	-	ASME B31.3	-	-	-	-	-	-
	2		Isolation Valve	-	No Isolation	-	-	-	-	-	-
	3										
	4		Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-
	5		Angle Valve	-	Provided on Suction Line For Oil Recovery Line	-	-	-	-	-	-
J											
	1		Design Code	-	ASME B31.3	-	-	-	-	-	-
	2		Isolation Valve	-	Check Valve (NRV)	-	-	-	-	-	-
	3		Material of Construction	-	Carbon Steel	-	-	-	-	-	-
	4		Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-
	5		Skin Type Thermowell	-	Provided on Discharge Line For Discharge Temp. Sensor	-	-	-	-	-	-
K											
	1		Design Code	-	ASME B31.3	-	-	-	-	-	-
	2										
		i	Type	-	Electronic Expansion Valve	-	-	-	-	-	-
		ii	Make	-	Refer "Make List" Sheet	-	-	-	-	-	-
		iii									
		iv	Sight Glass	-	Inbuilt	-	-	-	-	-	-
		v	Moisture Indicator	-	NA	-	-	-	-	-	-
	3		Filter Drier	-	NA	-	-	-	-	-	-
	4		Material of Construction	-	Copper	-	-	-	-	-	-
	5		Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-
N											
	1		Panel Enclosure	-	Starter and Control Panel Integrated in Single Fabricated Box	-	-	-	-	-	-
	2										
	3		Material of Enclosure	-	Rittal Enclosure - Sheet Steel Fabricated Enclosure - CRCA Sheet	-	-	-	-	-	-
	4		Thickness of Enclosure	mm	Rittal Enclosure - (Control Panel) Enclosure - 1.5 mm Door - 2 mm Fabricated Enclosure - (Starter Panel) Load Bearing Member - 2 mm Non-Load Bearing Member - 1.6 mm	-	-	-	-	-	-
	5										
	6										
		i	Paint Type	-	RAL 7035	-	-	-	-	-	-
		ii	Standard	-	Coating as per KCPL Standards	-	-	-	-	-	-
	7		Mounting Arrangement	-	Control Panel - Mounted on Chiller Starter Panel - Free Standing (Mounted on Chiller - Optional)	-	-	-	-	-	-
	8		Type of Starter	-	Star-Delta Starter (Soft Starter - Optional)	-	-	-	-	-	-
	9										
	10		Type of Protection	-	MCCB for Star-Delta Starter FSD for Soft Starter	-	-	-	-	-	-
	11		Switchgear Make	-	Siemens	-	-	-	-	-	-
	12		Electrical and Control Cables	-	Power - PVC Insulated Single Core (Vtg. Grade 1.1 kV) Control- PVC Insulated Single Core, Multicore Cable (Vtg. Grade 1.1 kV) Signal- Shielded Cable	-	-	-	-	-	-
	13										
		i	Phase Indicating Lamps	-	Special-Optional	-	-	-	-	-	-
		ii									
		iii	Energymeter	-	Special-Optional	-	-	-	-	-	-
		iv									
		v	LOTO Arrangement	-	Special-Optional	-	-	-	-	-	-
O											
	1		Make	-	Refer "Make List" Sheet	-	-	-	-	-	-
	2		Transmitters	-	NA	-	-	-	-	-	-
	3		Oil Level Switch	-	Yes, Provided	-	-	-	-	-	-
	4		Oil Level Failure Trip	-	Yes, Provided	-	-	-	-	-	-
	5		LP Switch and Gauge	-	No, Controller Program will Take Care of Low Pressure	-	-	-	-	-	-
	6		HP Switch and Gauge	-	No, Controller Program will Take Care of High Pressure	-	-	-	-	-	-
	7										
	8		Cooling Water Flow Failure	-	Yes	-	-	-	-	-	-
	9		Reverse Rotor Protection	-	No	-	-	-	-	-	-
	10										
	11		Low Current Trip (Current Based-Analog)	-	Yes	-	-	-	-	-	-

[illegible]

