

		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	65	-	-	-	-	-	-	-	-	-
		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		Physical Data of Evaporator											
		i	Overall Length of Evaporator	ft	—————→	9	9	9	9	9	9	12	12	12
		ii	Shell Diameter	inch	—————→	18	18	20	20	22	26	26	26	30
		iii	Shell Thickness	mm	—————→	8	8	8	8	8	8	8	8	10
		iv	Approx. Shell Length	mm	—————→	2668	2668	2662	2662	2662	2650	3536	3536	3526
		v	Material of Construction of Shell	-	Mild Steel	-	-	-	-	-	-	-	-	-
		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	Material of Construction of Tube	-	Cu	-	-	-	-	-	-	-	-	-
		xii	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-
		xiii	Water Volume in Evaporator	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-
	8		Water Box Details											
		i	Type	-	Standard - Dish Ends (M.W.Box - Optional)	-	-	-	-	-	-	-	-	-
		ii	Material	-	Mild Steel	-	-	-	-	-	-	-	-	-
		iii	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-
		iv	Nozzle size	NB	Refer KCPL Chiller Selection System 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		Accessories Provided											
		i	Pressure Relief Valve	-	Spring Loaded (For Safety Valve Set Pressure Refer ESP)	-	-	-	-	-	-	-	-	-
		ii	Drain/Vent Valves	Inch	Plugged Connection Provided (3/8" NPT)	-	-	-	-	-	-	-	-	-
F			Condenser Details											
		1	Model	-	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-
		2	Design Code	-	As per KCPL Standards	-	-	-	-	-	-	-	-	-
		3	Type	-	Shell and Tube Flooded Design	-	-	-	-	-	-	-	-	-
		4	Tube Side (Fluid)	-	Chilled Water	-	-	-	-	-	-	-	-	-
		5	Shell Side (Fluid)	-	Refrigerant	-	-	-	-	-	-	-	-	-
		6	Design Parameters											
		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	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	bar	Depends on Site Piping Layout (Maximum Allowable - 9.4 bar)	-	-	-	-	-	-	-	-	-

	xv	Condensing Temperature	°C	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-
	7	Physical Data of Condenser												
	i	Overall Length of Condenser	ft	—————→	9	9	9	9	9	9	12	12	12	12
	ii	Shell Diameter	inch	—————→	16	16	18	18	20	22	22	22	26	30
	iii	Shell Thickness	mm	—————→	8	8	8	8	8	8	8	8	8	10
	iv	Shell Length	mm	—————→	2668	2668	2668	2668	2662	2654	3540	3540	3528	3516
	v	Material of Construction of Shell	-	Mild Steel	-	-	-	-	-	-	-	-	-	-
	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	Material of Construction of Tube	-	Cu	-	-	-	-	-	-	-	-	-	-
	xii	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-
	xiii	Water Volume in Condenser	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-
	8	Water Box Details												
	i	Type	-	Standard - Dish Ends (M.W.Box - Optional)	-	-	-	-	-	-	-	-	-	-
	ii	Material	-	Mild Steel	-	-	-	-	-	-	-	-	-	-
	iii	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-
	iv	Nozzle size	NB	Refer KCPL Chiller Selection System 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	Accessories Provided												
	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		Suction Line												
	1	Design Code	-	ASME B31.3	-	-	-	-	-	-	-	-	-	-
	2	Isolation Valve	-	Butterfly Valve	-	-	-	-	-	-	-	-	-	-
	3	Material of Construction	-	Carbon Steel	-	-	-	-	-	-	-	-	-	-
	4	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-
	5	Angle Valve	-	Provided on Suction Line For Oil Recovery Line	-	-	-	-	-	-	-	-	-	-
J		Discharge Line												
	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		Liquid Line												
	1	Design Code	-	ASME B31.3	-	-	-	-	-	-	-	-	-	-
	2	Expansion Valve												
	i	Type	-	Electronic Expansion Valve	-	-	-	-	-	-	-	-	-	-
	ii	Make	-	Refer "Make List" Sheet	-	-	-	-	-	-	-	-	-	-
	iii	Quantity	Nos.	—————→	1	1	1	1	1	1	1	1	2	2
	iv	Sight Glass	-	Inbuilt	-	-	-	-	-	-	-	-	-	-
	v	Moisture Indicator	-	NA	-	-	-	-	-	-	-	-	-	-
	3	Filter Drier	-	NA	-	-	-	-	-	-	-	-	-	-
	4	Material of Construction	-	Copper	-	-	-	-	-	-	-	-	-	-
	5	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-
L		Desuperheater	-	Not Applicable	-	-	-	-	-	-	-	-	-	-
M		Economizer	-	Not Applicable	-	-	-	-	-	-	-	-	-	-
N		Starter and Control Panel												
	1	Panel Enclosure	-	Starter and Control Panel Integrated in Single Fabricated Box	-	-	-	-	-	-	-	-	-	-
	2	Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-
	3	Material of Enclosure	-	CRCA Sheet	-	-	-	-	-	-	-	-	-	-
	4	Thickness of Enclosure	mm	Fabricated Enclosure - Load Bearing Member - 2 mm Non-Load Bearing Member - 1.6 mm	-	-	-	-	-	-	-	-	-	-
	5	Ingress Protection (IP)	-	IP54	-	-	-	-	-	-	-	-	-	-
	6	Painting Specification												
	i	Paint Type	-	RAL 7035	-	-	-	-	-	-	-	-	-	-

