		UOM																							
Sr. No.	Description General Points	(Wherever Applicable)	Data (Common For All Models)	KWI130.14	KWI150.14	KWI170.14	KWI195.14	KWI220.14	KWI240.14	KWI265.14	KWI280.14	KWI265.24	KWI295.24	KWI320.24	KWI340.24	KWI365.24	KWI390.24	KWI415.24	KWI445.24	KWI460.24	KWI485.24	KWI505.24	KWI525.24	KWI545.24	KWI560.24
1	Cooling Capacity	ton _R	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Power Consumption Specific Power Consumption	kW kW/ton _R	Refer KCPL Chiller Selection System Software Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Co-Efficient of Performance (COP)	kW/kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	No. of Compressors No. of Individual Refrigerant Circuits	Nos.		1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1
7	Refrigerant					_										1			_						
i	Name Quantity	- kg	R134a Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 ii	Technical Specifications Sound Procesure Lovel	-	Refer ESP-18-19-003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sound Pressure Level Noise Level	dB	Refer ESP-18-19-001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 i	Measuring Standard Insulation Details	-	ANSI/AHRI Standard 575-2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Material	-	Closed Cell Nitrile Foam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Insulation Thickness on Various Parts Evaporator Shell	- mm	For Standard Temperature Range (LWT upto -10 0C)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Evaporator Tubesheet	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Evaporator Dished End Evaporator M.W.Box (If Applicable)	mm mm	19 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Evaporator Support Plate	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Compressor Motor Body Suction Line Assembly	mm mm	19	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-		-	-
	Liquid Line Assembly Insulation Thickness on Various Parts	mm -	9 For Brine Temperature Range (LWT below -10 0C)	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Evaporator Shell	mm	51 (32+19)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	Evaporator Tubesheet Evaporator Dished End	mm mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Evaporator M.W.Box (If Applicable)	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
++	Evaporator Support Plate Compressor Motor Body	mm mm	32 28 (19+9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Suction Line Assembly	mm	28 (19+9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iv	Liquid Line Assembly Density	mm kg/m ³	19 76.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Thermal Conductivity	W/m.K	0.035 (at 0 0C Mean Temperature)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Standard i Adhesive	-	IS 14164 Blend of Synthetic Polymers and Synthetic Resin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Insulation Specifications Vibration	-	Refer ESP-18-19-004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
i	Vibration Level	mm/sec	Less than 1.5 mm/sec	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vibration control Standard	-	Rubber Pads (Standard) / Spring Isolators (At an Additional Cost) IS 12075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Painting Specification	I														I				1	1				
	Paint Type Standard	-	RAL 7035 Coating as per KCPL Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 i		mm	Refer KCPL Chiller Selection System Software				1			1						ı				ı	ı				
i	Approx. Width	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Approx. Height Space Clearances Required	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Plain End Side (For Tube Cleaning)	mm	\longrightarrow	2900	2900	2900	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800
	All Other Sides Overhead	mm mm	→ →	1000 1500	1500 1500																				
14	Weight Approx. Shipping Weight	kg	Refer KCPL Chiller Selection System Software																					_	
i	Approx. Operating Weight	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cable Sizes Aluminum Cable	-	Refer ESP-14-15-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Copper Cable Compressor Details	-	Refer ESP-14-15-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
1	Make	-	Kirloskar Chillers Private Limited																						
3	Type / Description Model	-	Semi-Hermetic Twin Screw Compressor Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Drive	-	Direct Driven by Rotor Shaft	-	-	-	-	-	400.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Capacity Control Percentage Type of Capacity Control	%	Stepless	100-35%	100-35%	100-35%	100-35%	100-35%	100-35%	100-35%	100-35%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%	100-17.5%
	Capacity Control Mechanism Volumetric Ratio	-	Variable Speed Fixed Ratio (2.2)	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Design and Test Parameters	ı																							
	Design Pressure Test Pressure (Pneumatic)		30 33	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
ii	Design Temperature		120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Max. Allowable Discharge Temperature Bearings	°C	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Types of Bearings	-	Roller Bearings - For Radial Load	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Material of Construction	-	Angular Contact Roller Bearing - For Axial Load Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Life of Bearing Class of Bearing	Hours -	50,000 Proprietary Data	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Lubrication	· ·																							
	Type Lubricating Oil	-	Lubrication by Differential Pressure Mechanism Synthetic Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ii	Grade of Lubricating Oil	-	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Compressor Components MOC	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
i	Screw	-	Alloy Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
i		-	Cast Iron Alloy Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 iv	Physical Data of Compressor	-	Aluminum Alloy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Screw Construction	-	Twin Screw	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Sr. No.	Description	UOM (Wherever	Data (Common For All Models)	KWI130.14	KWI150 14	KWI170 14	KWI195 14	KWI220 14	KWI240 14 K	(WI265 14	KWI280 14	KWI265 24	KWI295 24	KWI320 24	KW1340 24	KWI365 24	KW1390 24	KWI415 24	KWI445 24	KWI460 24	KWI485 24	KWI505.24 KWI5	5 24 KWI545	24 KWI560.2
		Applicable)	Sata (common tor via modelly	KW1250121		K***1270121		KWILLOIL				KWILOSIL I	KWIESSIE I	KWI5ZGIZ I		KW15051E1	KW1550IL1			KWI IOO.E I	KVV 1051E 1	KWISOSIET KWIS	3.21 ((1.0)	ET KWISOOIE
	No. of Lobes Male Rotor	Nos.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	No. of Lobes Female Rotor	Nos.	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Male Rotor Diameter (mm) Female Rotor Diameter (mm)	mm mm	Proprietary Data Proprietary Data	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-			-
	Driving Rotor	mm -	Male Rotor	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-			-
	Oil Filter								•															
	Micron Rating	Micron	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Material of Construction	-	Resin Impregnated Fibres	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
16	Quantity Copressor Isolation Type	Nos.	1 No. per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	At Suction	-	Butterfly Valve	-	-	_	_	-	-	-	-	-	_	-	-	_	_	-	-	_	_		_	-
-	At Discharge	-	Shut-off Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
С	Compressor Motor Details																							
2	Make Motor Type	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Type of Duty	-	Semi-Hermetic Squirrel Cage Induction Motor Continuous	-	-	-	-		-	-	-		-	-	-	-	-	-		-	-			-
4	Motor Rating	kW	Refer KCPL Chiller Selection System Software	-	-	-	-		-	-				-	-	-	_		-	-	-			
5	Motor Speed (Synchronous)	RPM	3600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Ingress Protection (IP)	-	NA, Being Semi-Hermetic Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
8	GD ² of Rotor Whether SPDP or TEFC?	-	Proprietary Data NA, Being Semi-Hermetic Type	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-
	Power Supply Details (Standard)	-	NA, Being Semi-Hermetic Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Supply Voltage	V	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
ii	Permissible Voltage Variation	%	±10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Prequency Promissible Fraguency Variation	Hz %	60 ±3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Permissible Frequency Variation Phase	-	3																					
	Performance Indicators																							
i	Motor Efficiency Class	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Motor Power	kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Motor Efficiency Power Factor	-	Consult with Engineering Department on Case to Case Basis Consult with Engineering Department on Case to Case Basis									- 1												
	Class of Insulation	-	Class F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
-	Motor Cooling																							
	Motor Cooling Type Cooling Mechanism	-	Refrigerant Cooled Suction Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Temperature at full load	°C	10 to 15 (At Normal Condtions)	-	-		-	-		-	-			-	-	-	-		-					
	Current Details	C	10 to 15 (Actional constant)																					
ii	Rated Load Current	Α	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Full Load Current	Α	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Inrush/Starting Current Locked Rotor Current	A A	Refer KCPL Chiller Selection System Software Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Starting Torque	N.m	- Selection System Software	192	192	226	226	226	226	226	226	192 + 192	192 + 192	226 + 192	226 + 226	226 + 226	226 + 226	226 + 226	226 + 226	226 + 226	226 + 226	226 + 226 226 +	226 226 + 22	26 226 + 226
	No Load Current	Α	$\overline{}$	44.7	44.7	74.3	74.3	74.3	74.3	74.3	74.3	44.7 + 44.7	44.7 + 44.7	74.3 + 44.7	74.3 + 74.3	74.3 + 74.3	74.3 + 74.3	74.3 + 74.3	74.3 + 74.3	74.3 + 74.3	74.3 + 74.3	74.3 + 74.3 74.3 +	74.3 74.3 + 74	1.3 74.3 + 74.3
	i Acceleration Time to Reach Rated Speed Control Settings	Sec	2 to 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	No. of Starts per Hour																							
		Nos.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Time Between STOP to START		300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-
iii	Time Between STOP to START Time Between START to START			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-
D iii	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer)	Sec Sec	300 900	-	-	-	-	-	-		-	-	-	-			-	-	-	-			-	-
D iii	Time Between STOP to START Time Between START to START	Sec Sec	300		-	-	-					-	-	-	-	-	-		-	-	-		-	-
D iii D 2 3	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency	Sec Sec V %	300 900 415 110% 50	-	-	-	-	-			- - - -	-	-	- - - -		-	-	-	-	-			-	-
D 1 2 3 4	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation	Sec Sec V % Hz %	300 900 415	-	-	-	-	-	-		- - - - -	-	-		- - -	-	- - - -		- - - - -	-	-		-	-
D iii D 2 3	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase	Sec Sec V % Hz %	300 900 415 ±10% 50 ±3% 3	-	-	-		- - - - - -				-	-						-	-	-		-	-
D iii D 2 3 4	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation	Sec Sec V % Hz %	300 900 415 ±10% 50 ±3% 3 33 230 (Standard) 110 (Special-Optional)		-		-						-					-					-	
D iii D 2 3 4	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase	Sec Sec V % Hz %	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard)	-	-	-		-					-				- - - - - - - - - -	-	-		-			
D 1 2 3 4 5 6 7	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System	Sec Sec V % Hz V V	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional)	-	-			-								-	-			-				
D 1 2 3 3 4 5 6 6 7 7 8 8	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage	Sec Sec V % Hz V V	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard)	-	-																			
D iii D 2 2 3 4 4 5 6 6 7 7 8 8 E 1 1	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type	Sec Sec V % Hz V V	300 900 415 ±10% 50 ±3% 3 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice	-																				
D iii D 1 2 3 3 4 5 6 7 8 8 E 1 1 2	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure	Sec Sec V % Hz V V kA	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement																					
D iii D 2 2 3 3 4 4 5 5 6 6 7 7 8 8 E 1 1 2 2 3 3	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation	Sec Sec	300 900 415 ±10% 50 ±3% 3 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice																					
D iii D 2 3 3 4 5 6 7 8 8 E 1 2 2 3 3 4	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement																					
D iii D 2 3 4 5 5 6 6 7 7 8 8 E 1 1 2 2 3 3 4 i ii	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister	Sec Sec	300 900 415 110% 50 43% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Standard) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister																					
D iii D 2 2 3 3 4 5 5 6 6 7 7 8 8 E 1 1 2 2 3 3 4 4 i ii 5 5 5 5 5 5 5 5 5 5 6 6 7 7 7 7 7 7 7 7	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS																	-				
D iii D 2 3 3 4 5 6 7 8 8 E 1 2 2 3 3 4 i i i 5 5 6 i i	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter	Sec Sec	300 900 415 110% 50 13% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet)																					
D iii D 1 2 2 3 3 4 4 5 5 6 7 8 8 E 1 2 2 3 3 4 i iii 5 5 i iii 6 6	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS														20							
D iii D 2 2 3 3 4 4 5 5 6 6 7 1 1 2 2 3 3 4 4 i ii 6 6 6 7 7	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 4 Wire System (Standard) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55										_				20							
D iii D 1 2 2 3 3 4 4 5 5 6 7 8 8 E 1 2 2 3 3 4 4 i i ii 6 6 7 7 i i	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separation Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Separation Efficiency Oil Heater Details Make	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225									_		2035		20			2365	2365		5 2365	
D iii D 2 3 3 4 4 5 5 6 7 8 8 E 1 1 2 2 3 3 4 4 iii 5 5 i iii 6 7 7 iii iii iii iii iii iii	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details	Sec Sec	300 900 415 ±10% 50 ±3% 3 3230 (Standard) 110 (Special-Optional) 3 Phase - 3 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55 99	1225			1395		1395	1395		2035	_			2035	20					2365 23	5 2365	
III	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 4 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55 Kirloskar Approved Vendor	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 3 4 5 6 7 8 8 E 1 1 2 2 3 3 4 4 ii iii 6 6 7 7 ii iii iii iii iiv F	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Gil Cooler	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55 —————————————————————————————————	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 4 5 6 7 8 8 E 1 1 2 2 3 3 4 4 ii iii 6 6 7 7 ii iii iii iii iiv F	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 3 4 4 5 5 6 7 8 8 E 1 1 2 2 3 3 4 4 iii 5 5 i iii 6 7 7 i i iii iii 6 7 7 i i iii iii f 6 7 7 1 i iii iii iii iii iii iii iii iii iii	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 4 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55 Kirloskar Approved Vendor	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 3 4 5 6 6 7 7 8 8 E 1 1 2 2 3 3 4 4 iii 5 6 7 iii iii iii iii iiv F G 1 1 2 2 3 3	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D : 2 : 3 3 4 5 5 6 6	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Saupt Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 4 4 5 5 6 6 7 7 ii iii 5 6 6 7 7 ii iii 6 6 7 7 ii iii 6 6 7 7 ii iii 6 7 7 6 6 7 7 6 6 7 7 6 7 6	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 1 2 3 3 4 5 5 6 6 7 7 8 8 E 1 1 2 3 3 4 4 1 5 6 6 7 1 1 2 2 3 3 4 4 1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid) Shell Side (Fluid) Design Parameters Design Temperature (Refrigerant Side)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 3 4 5 5 6 6 7 7 iii iii iv F G 1 1 2 2 3 3 4 4 5 5 6 6 6 6 7 7 iii iii iv F G 1 1 2 2 3 3 4 4 5 5 6 6 6 6 7 7 iii iii iii iii iii iii iii	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid) Shell Side (Fluid) Design Parameters Design Temperature (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Max. Operating Pressure (Refrigerant Side)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
III	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid) Shell Side (Fluid) Design Temperature (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Design Temperature (Refrigerant Side) Design Pressure (Refrigerant Side)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
III	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid) Shell Side (Fluid) Shell Side (Fluid) Design Parameters Design Temperature (Refrigerant Side) Design Pressure (Refrigerant Side) Test pressure (Refrigerant Side) Test pressure (Refrigerant Side) Test pressure (Refrigerant Side)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 3 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55 —————————————————————————————————	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 3 3 4 5 6 6 7 7 8 8 E 1 1 2 3 3 4 4 1 5 6 6 7 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid) Shell Side (Fluid) Design Temperature (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Design Temperature (Refrigerant Side) Design Pressure (Refrigerant Side)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) SS	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	
D iii D 2 2 3 3 4 5 5 6 6 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time Between STOP to START Time Between START to START Power Supply (Standard-Chiller Icomer) Supply Voltage Permissible Voltage Variation Frequency Permissible Frequency Variation Phase Control Voltage Supply Wire System Fault Level at Busbar Oil Separator Details Type Internal Structure Method of Oil Separation Material of Construction Body and Other Parts Demister Physical Details Shell Diameter Approx. Length Seperation Efficiency Oil Heater Details Make Quantity Power Supply Rating Oil Cooler Evaporator Details Model Design Code Type Tube Side (Fluid) Shell Side (Fluid) Shell Side (Fluid) Design Temperature (Refrigerant Side) Max. Operating Pressure (Refrigerant Side) Test fressure (Refrigerant Side) Test fressure (Refrigerant Side) Test fressure (Refrigerant Side) Testing method (Refrigerant Side) Testing method (Refrigerant Side)	Sec Sec	300 900 415 ±10% 50 ±3% 3 230 (Standard) 110 (Special-Optional) 3 Phase - 4 Wire System (Standard) 3 Phase - 3 Wire System (Special-Optional) As per KCPL Standard Practice Horizontal Type Baffle - Demister Arrangement Separation by "Filtering Effect" Obtained Through Demister Mild Steel (Refer "MOC" Sheet) 55	1225			1395		1395	1395		2035	_		2035	2035	20			2365	2365	2365 23	5 2365	

Sr. No.	Description	UOM (Wherever	Data (Common For All Models)	KWI130.14	KWI150 14	KWI170 14	KWI105 14	KW1220.14	KWI240 14	KW1265 14	KWI280 14	KWI265 24	KWI295 24	KW1320.24	KWI340 24	KW1365 24	KWI390.24	KWI415 24	KWIAA5 24	KWI460 24	KWI485 24	KWISOS 24	KWJ525 24	KWI545 24	KWI560 24
		Applicable)		KW1150.14	RVVI150.14	KW1170.14	AVV1195.14	KW1220.14	XVV124U.14	AVV1203.14	RVV1200.14	KW1203.24	KVV1233.24	KW1520.24	RVV1340.24	AVV1303.24	AVV1330.24	KW1413.24	XVV1443.24	AVV1400.24	AVV1403.24	AVVI505.24	KW1525.24	KW1545.24	AVV1500.24
	Design Pressure (Water Side)		Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Test pressure (Water Side)		Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Testing method (Water Side) i No. of Passes (Water Side)	- Nos.	Refer ESP-07-08-107 Two Pass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	i Water Velocity	m/s	Less than 3 m/s	-					-	-	-	-	-	-	-	-			-	-	-		-		-
	Inlet Pressure	bar	Depends on Site Piping Layout (Maximum Allowable - 9.4 bar)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Evaporating Temperature	°c	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Physical Data of Evaporator						- 40	40	- 10	- 10	40	10 1	10	10	40	40	10 1	40	- 10	40	- 10	10 1	10	40	40
	Overall Length of Evaporator Shell Diameter	ft inch	→	9 22	9 22	24	12 22	12 24	12 24	12 24	12 24	12 24	12 24	12 26	12 26	12 26	12 30	12 30	12 30	12 36	12 36	12 36	12 36	12 36	12 36
	Shell Thickness	mm		8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10
	Approx. Shell Length	mm	\rightarrow	2662	2662	2650	3548	3536	3536	3536	3536	3536	3536	3536	3536	3536	3526	3526	3526	3504	3504	3504	3504	3504	3504
	Material of Construction of Shell	-	Mild Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	Material Standard of Shell	-	Refer "MOC" Sheet Integral Helical Fins on the Outside Surface and Integral Helical Ridges on	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
vi	Tube Type/ Nature of Tube Surface	-	the Inside Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tube Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tube Diameter	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tube Thickness Material of Construction of Tube	mm	Refer "HX Details" Sheet	-	-	1	-		-	-			-	-		-			-	-	-				-
	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Water Volume in Evaporator	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Water Box Details		1																						
-	Type Material	-	Standard - Dish Ends (M.W.Box - Optional) Mild Steel		-		-				-	-	-	-	-	-	-	-				-	-	-	
	Material Standard		Refer "MOC" Sheet	-		-	-	-			-	-		-	-	-		-	-	-			-	-	-
iv	Nozzle size	NB	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	End connection	-	Standard - Victaulic Conn. (Flanged Conn Optional)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MOC of Water Side Gasket MOC of Refrigerant Side Gasket	-	NAM AF 120 NAM AF 159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Accessories Provided		INOM UL 193															-							
i	Pressure Relief Valve		Spring Loaded (For Safety Valve Set Pressure Refer ESP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Drain/Vent Valves	Inch	Plugged Connection Provided (3/8" NPT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H 1	Condenser Details		Poter VCDI Chiller Selection Sentence Settings																						
2		-	Refer KCPL Chiller Selection System Software As per KCPL Standards															-					-		
3	Туре		Shell and Tube Flooded Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tube Side (Fluid)	-	Chilled Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Shell Side (Fluid)	-	Refrigerant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Design Parameters Design Temperature (Refrigerant Side)	°C	100																						
 	Max. Operating Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107			-			-			-	-	-					-						
	Design Pressure (Refrigerant Side)		Refer ESP-07-08-107	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iv	Test pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Testing method (Refrigerant Side)		Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	No. of Passes (Refrigerant Side) Design Temperature (Water Side)	Nos.	Single Pass 100															-							
	i Max. Operating Pressure (Water Side)	bar	Refer ESP-07-08-107		-		-	-	-		-	-	-	-	-	-		-	-	-			-	-	-
i	Design Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Test pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Testing method (Water Side) i No. of Passes (Water Side)	- Nos.	Refer ESP-07-08-107 Two Pass	-					-			-	-	-	-	-		-	-			-	-		
	i Water Velocity	m/s	Less than 3 m/s								-													-	
xi	Inlet Pressure	bar	Depends on Site Piping Layout (Maximum Allowable - 9.4 bar)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Condensing Temperature		Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	Physical Data of Condenser Overall Length of Condenser	ft		0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	Overall Length of Condenser Shell Diameter	inch	→ →	9 18	18	20	12	20	20	12 20	12 20	20	12 20	22	22	12 22	12 26	12 26	30	30	12 30	12 30	12 30	12 30	30
	Shell Thickness	mm	→	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10
	Shell Length	mm		2668	2668	2662	3554	3548	3548	3548	3548	3548	3548	3540	3540	3540	3528	3528	3516	3516	3516	3516	3516	3516	3516
	Material of Construction of Shell Material Standard of Shell	-	Mild Steel Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		<u> </u>	Integral Helical Fins on the Outside Surface and Integral Helical Ridges on																						
	Tube Type/ Nature of Tube Surface	-	the Inside Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	i Tube Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tube Diameter Tube Thickness	mm mm	Refer "HX Details" Sheet Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Material of Construction of Tube	mm -	Cu											-				-					-	-	
xi	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	i Water Volume in Condenser	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 i	Water Box Details		Standard - Dish Ends (M.W.Box - Optional)																						
	Material		Mild Steel	-							-	-		-	-	-			-				-	-	-
ii	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nozzle size	NB	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	End connection MOC of Water Side Gasket	-	Standard - Victaulic Conn. (Flanged Conn Optional) NAM AF 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MOC of Water Side Gasket MOC of Refrigerant Side Gasket	-	NAM AF 159											-				-					-	-	
9	Accessories Provided																								
	Pressure Relief Valve	-	Spring Loaded (For Safety Valve Set Pressure Refer ESP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Drain/Vent Valves	Inch	Plugged Connection Provided (3/8" NPT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Suction Line Design Code		ASME B31.3						_			_		_					_		_				
	Isolation Valve		Butterfly Valve	-	-		-		-		-	-	-	-	-	-		-	-	-	-	-	-	-	-
3	Material of Construction	-	Carbon Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Angle Valve Discharge Line	-	Provided on Suction Line For Oil Recovery Line	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Design Code		ASME B31.3	_	-	-	_	-	-	-	_	-	_	_	_	_		_	-	-	-	_	_	_	_
	Isolation Valve		Shut-off Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Material of Construction	-	Carbon Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sr. No.	Description	UOM (Wherever Applicable)	Data (Common For All Models)	KWI130.14	KWI150.14	KWI170.14	KWI195.14	KWI220.14	KWI240.14	KWI265.14	KWI280.14	KWI265.24	KWI295.24	KWI320.24	KWI340.24	KWI365.24	KWI390.24 K	(WI415.24	KWI445.24	KWI460.24	KWI485.24	KWI505.24 K	KWI525.24	KWI545.24	KWI560.24
	Skin Type Thermowell	-	Provided on Discharge Line For Discharge Temp. Sensor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K	·		ACME DOLO																	1			—		
	Design Code Expansion Valve	-	ASME B31.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Туре	-	Electronic Expansion Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Make Quantity	- Nee	Kirloskar Approved Vendor	- 1	-	-	-	- 4	- 1	-	- 1	-	-	-	-	-	-	-	-	- 2	-	-	-	-	-
	Sight Glass	Nos.	Inbuilt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
,	Moisture Indicator	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3		-	NA .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Material of Construction Material Standard	-	Copper Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L	Desuperheater																								
2		- Nos.	Plate Type One per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Operating Conditions	1405.	One per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
	Heat Duty	kW	Depends on Working Conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hot Water Inlet Temperaure	°C	Depends on Site Conditions (Max. Possible - 40)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
	Hot Water Outlet Temperaure Hot Water Flow Rate	L/s	Max. Possible - 45 Depends on Working Conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	Material of Construction	-	Brazzed PHE, Plate Material - SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Water Side End connection Details																								
 	Water Inlet Connection Water Outlet Connection	NB NB	Consult with Engineering Department on Case to Case Basis Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
	Pressure Drop																								
	Water Side Refrigerant Side	bar bar	less than 0.5 Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-
М	Economizer Economizer	- bar	Not Applicable	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-
	Starter and Control Panel																								
			Single Circuit - Starter and Control Panel Integrated in Single Fabricated																						
1	Panel Enclosure	-	Box Dual Circuit VEDs are Mounted on Both Cides (Quitside) of Control Bond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	- 1	- 1	-
	Mala		Dual Circuit - VFDs are Mounted on Both Sides (Outside) of Control Panel																						
2	Make	-	Kirloskar Approved Vendor Rittal Enclosure - Sheet Steel													-	-	-	-	-	-	-	-		-
3	Material of Enclosure	-	Fabricated Enclosure - CRCA Sheet	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	- 1	-	-
			For Single Circuit Chillers (Starter and Control Panel)																						
			Fabricated Enclosure - (For Dual Circuit Chillers) Load Bearing Member - 2 mm																				1		
			Non-Load Bearing Member - 1.6 mm																				1		
																							/ //		
			For Dual Circuit Chillers Control Panel																				/ //		
4	Thickness of Enclosure	mm	Rittal Enclosure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Enclosure - 1.5 mm																				/ //		
			Door - 2 mm																				1		
			Starter Panel																				/ //		
			Fabricated Enclosure Load Bearing Member - 2 mm																				/ //		
			Non-Load Bearing Member - 2 mm																				1		
	Ingress Protection (IP)	-	IP54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Painting Specification Paint Type		RAL 7035							_															
	Standard	-	Coating as per KCPL Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-
7	Mounting Arrangement Type of Starter	-	Mounted on Chiller	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Type of Starter Type of Isolation		VFD Starter SDU as Incomer for Individual Circuit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Type of Protection		Motor Protection - Built in VFD							_													. 7		
			Motor Winding Protection - WPU (Winding Protection Unit)																					التهيد	
111	Switchgear Make	-	Refer "Make List" Sheet		-	-			-	-	-	-	-	-	-	-	-		-	-	-				
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																						
	Optional Features																								
	Phase Indicating Lamps	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hooter i Energymeter	-	Special-Optional Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
i	Door Handle	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LOTO Arrangement Active Harmonic Filter	-	Special-Optional Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	i AC Input Choke	-	Special-Optional Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-
v	Purge Panel	-	Special-Optional Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0 1	Controller Make	-	Refer "Make List" Sheet									_	-			_	-		_		_				
2	Transmitters	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oil Level Switch	-	Yes, Provided	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
	Oil Level Failure Trip LP Switch and Gauge	-	Yes, Provided No, Controller Program will Take Care of Low Pressure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-
6	HP Switch and Gauge	-	No, Controller Program will Take Care of High Pressure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Chilled Water Flow Failure	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	Cooling Water Flow Failure Reverse Rotor Protection	-	Yes No														-				-				
10	High/Low Voltage Trip	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Low Current Trip (Current Based-Analog)	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	High Current Trip (Current Based-Analog) Phase Failure/Reverse Phasing Trip	-	Yes Yes		-	-		-	-	-		-			-	-	-		-	-	-				
14	Earth Fault Trip		No	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Communication Through RS232/RS485	-	RS485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
	Display of Microprocessor Type of Display	-	Yes 7" Touch Screen Display		-				-	-	-				-	-	-				-				
1/	. The or probled		, Todan Screen Display																						

		UOM																							
Sr. No.	Description	(Wherever	Data (Common For All Models)	KWI130.14	KWI150.14	KWI170.14	KWI195.14	KWI220.14	KWI240.14	KWI265.14	KWI280.14	KWI265.24	KWI295.24	KWI320.24	KWI340.24	KWI365.24	KWI390.24	KWI415.24	KWI445.24	KWI460.24	KWI485.24	KWI505.24	KWI525.24	KWI545.24	KWI560.24
		Applicable)																							
18	Remote Monitoring Facility	-	Yes	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
19	Output to DCS	-	Applicable (Only if RS485 is Available)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-