

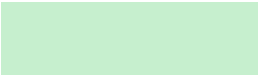
Sr. No.				Description	UOM (Wherever Applicable)	Data (Common For All Models)	KWS055.17	KWS070.17	KWS095.17	KWS110.17	KWS135.17	KWS180.17	KWS205.17	KWS230.17	KWS110.27	KWS130.27	KWS150.27	KWS180.27	KWS215.27	KWS270.27	KWS315.27	KWS360.27	KWS385.27
A			General Points																				
	1		Cooling Capacity	ton <sub>R</sub>	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Power Consumption	kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Specific Power Consumption	kW/ton <sub>R</sub>	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Co-Efficient of Performance (COP)	kW/kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		No. of Compressors	Nos.		1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	6		No. of Individual Refrigerant Circuits	Nos.		1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	7		Refrigerant																				
		i	Name	-	R407C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Quantity	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Technical Specifications	-	Refer ESP-18-19-005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Sound Pressure Level																				
		i	Noise Level	dB	Refer ESP-18-19-001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Measuring Standard	-	ANSI/AHRI Standard 575-2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Insulation Details																				
		i	Material	-	Closed Cell Nitrile Foam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Insulation Thickness on Various Parts	-	For Standard Temperature Range (LWT upto -10 OC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Shell	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Tubesheet	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Pass Partition Assembly	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Head Cover	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Support Plate	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Compressor Motor Body	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Suction Line Assembly	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Liquid Line Assembly	mm	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Insulation Thickness on Various Parts	-	For Brine Temperature Range (LWT below -10 OC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Shell	mm	51 (32+19)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Tubesheet	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Pass Partition Assembly	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Head Cover	mm	51 (32+19)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Support Plate	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Compressor Motor Body	mm	28 (19+9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Suction Line Assembly	mm	28 (19+9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Liquid Line Assembly	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Density	kg/m <sup>3</sup>	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		Vibration																				
		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		Painting Specification																				
		i	Paint Type	-	RAL 7035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Standard	-	Coating as per KCPL Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12		Overall Dimensions																				
		i	Approx. Length	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Approx. Width	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Approx. Height	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13		Space Clearances Required																				
		i	Plain End Side (For Tube Cleaning)	mm		1900	2900	2900	2900	2900	2900	2900	3800	3800	2900	2900	2900	2900	3800	3800	3800	3800	3800
		ii	All Other Sides	mm		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
		iii	Overhead	mm		1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	14		Weight																				
		i	Approx. Shipping Weight	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Approx. Operating Weight	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15		Cable Sizes																				
		i	Aluminum Cable	-	Refer ESP-14-15-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Copper Cable	-	Refer ESP-14-15-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B			Compressor Details																				
	1		Make	-	Kirloskar Chillers Private Limited	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Type / Description	-	Semi-Hermetic Twin Screw Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Model	-	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Drive	-	Direct Driven by Rotor Shaft	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Capacity Control Percentage	%		100-25%	100-25%	100-25%	100-25%	100-25%	100-25%	100-25%	100-25%	100-25%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%
	6		Type of Capacity Control	-	Stepless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Capacity Control Mechanism	-	Slide Valve Mechanism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Volumetric Ratio	-	Fixed Ratio (3.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Design and Test Parameters																				
		i	Design Pressure	bar	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Test Pressure (Pneumatic)	bar	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Design Temperature	°C	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Max. Allowable Discharge Temperature	°C	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10		Bearings																				
		i	Types of Bearings	-	Roller Bearings - For Radial Load	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-







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