

Hermetic Scroll Water Chiller

R-22

Capacity : 5RT ~ 60RT

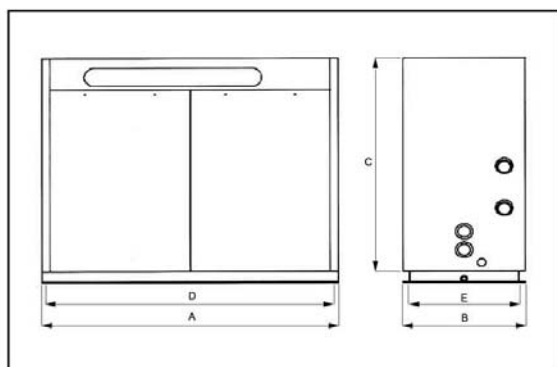


Technology-Rooted Service-Oriented
MADE IN TAIWAN



Hermetic Scroll Water Chiller (Packaged Type)

R-22



Specifications

Model			PQA-K18CLSP PQA-K18SLSP PQA-K18RLSP	PQA-K27CLSP PQA-K27SLSP PQA-K27RLSP	PQA-K35CLSP PQA-K35SLSP PQA-K35RLSP	PQA-K44CLSP PQA-K44SLSP PQA-K44RLSP	PQA-K53CLSP PQA-K53SLSP PQA-K53RLSP
Item							
Power supply			3φ- 220V / 380V / 440V- 60Hz				
Refrigerating capacity	kW		17.4	26.2	34.9	43.6	52.3
	kcal/hr		15,000	22,500	30,000	37,500	45,000
Power consumption	kW		3.92	5.875	7.84	9.8	11.75
220V 【C】 Running Current	A		12.8	19	25.3	32	43.5
380V 【S】 Running Current	A		7.4	11	14.65	17.9	25.6
440V 【R】 Running Current	A		6.4	9.5	12.7	15.7	21.9
220V 【C】 Starting Current	A		76.8	114	151.8	192	261
380V 【S】 Starting Current	A		44.4	66	87.9	107.4	153.6
440V 【R】 Starting Current	A		38.4	57	75.9	94.4	131.6
Capacity control	%		100 , 0				
Compressor	Type		Hermetic Scroll				
	Quantity		1				
	Starting method		Directly Start				
	Revolution	r.p.m	3500				
	Output	kW	3.75 * 1	7.5 * 1	7.5 * 1	9.75 * 1	11.25 * 1
	Crankcase heater	W	—				
Refrigeration Oil	Type		4GS	3GS	Mineral-160P	Mineral-160P	3GS
	Quantity	L	1.7	2.514	3.3	3.3	4.14
Refrigerant	Type		R22				
	Quantity	kg	2.5	5	5	6.7	8
	Control		Thermal Expansion Valve with External Pressure Equalizer				
Chiller	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	3	4.5	6	7.5	9
	Pressure drop	mAq	1.3	3	3	3	3
	Pipe size	B(MPT)	1-1/4"	1-1/2"	1-1/2"	2"	2"
Condenser	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	3.75	5.625	7.5	9.375	11.25
	Pressure drop	mAq	4	4.7	4.7	4.7	5
	Pipe size	B	1-1/4"	1-1/2"	1-1/2"	2"	2"
Control devices			Mechanical Control				
Protection devices			High/low pressure switch, anti-freeze switch, fusible plug, over current relay, compressor internal thermostat, thermal overload, phase reversal relay.				
Outline Dimensions	A	mm	1300	1300	1400	1400	1400
	B	mm	600	600	700	700	700
	C	mm	1250	1250	1350	1350	1350
	D	mm	1200	1200	1300	1300	1300
	E	mm	570	570	670	670	670
Net Weight	kg		350	445	455	525	530
Operating weight	kg		365	460	470	575	580
Power consumption per ton	kW/USRT		0.78	0.78	0.78	0.78	0.78
COP	kW/kW		4.45	4.45	4.45	4.45	4.45
E.E.R	kcal/hr/W		3.83	3.83	3.83	3.83	3.83
Noise (Measured distance 1 M)	dB(A)		62 +2 ↓	63 +2 ↓	63 +2 ↓	68 +2 ↓	68 +2 ↓

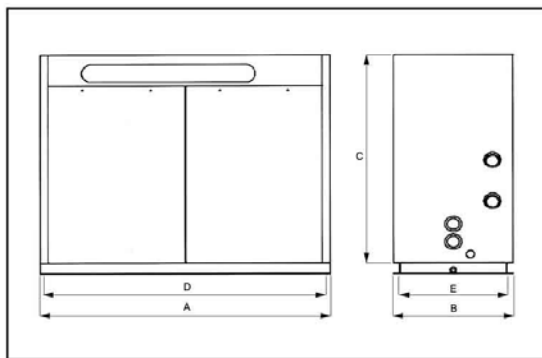
Note : 1.Nominal cooling capacity conditions : chilled water in 12℃ , out 7℃ ,Fouling factor : 0.000018m²℃/W, where cooling water in 30℃ , out 35℃ ,
Fouling factor : 0.000044m²℃/W.

2.Specifications are subject to change without notice for further improvement. If you have any special requirment, please inform us before placing order.



Hermetic Scroll Water Chiller (Packaged Type)

R-22



Specifications

Model			PQA-K35CLDP PQA-K35SLDP PQA-K35RLDP	PQA-K53CLDP PQA-K53SLDP PQA-K53RLDP	PQA-K70CLDP PQA-K70SLDP PQA-K70RLDP	PQA-K88CLDP PQA-K88SLDP PQA-K88RLDP	PQA-K105CLDP PQA-K105SLDP PQA-K105RLDP
Item							
Power supply			3φ- 220V / 380V / 440V- 60Hz				
Refrigerating capacity		kW	34.9	52.3	69.8	87.2	104.7
		kcal/hr	30,000	45,000	60,000	75,000	90,000
Power consumption		kW	7.84	11.75	15.68	19.6	23.5
220V 【C】 Running Current		A	25.6	38	50.6	64	87
380V 【S】 Running Current		A	14.8	22	29.3	35.8	51.2
440V 【R】 Running Current		A	12.8	19	25.3	31.5	43.9
220V 【C】 Starting Current		A	89.6	133	177.1	224	304.5
380V 【S】 Starting Current		A	51.8	77	102.55	125.3	179.2
440V 【R】 Starting Current		A	76.7	114	151.8	188.8	263.2
Capacity control		%	100 , 50 , 0				
Compressor	Type		Hermetic Scroll				
	Quantity		2				
	Starting method		Directly Sequence Start				
	Revolution	r.p.m	3500				
	Output	kW	3.75 * 2	7.5 * 2	7.5 * 2	9.75 * 2	11.25 * 2
	Crankcase heater	W	—				
Refrigeration Oil	Type		Mineral-160P	3GS	Mineral-160P	Mineral-160P	3GS
	Quantity	L	3.3	2.514	3.3	3.3	4.14
Refrigerant	Type		R22				
	Quantity	kg	2.5 * 2	5 * 2	5 * 2	6.7 * 2	8 * 2
	Control		Thermal Expansion Valve with External Pressure Equalizer				
Chiller	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	6	9	12	15	18
	Pressure drop	mAq	3.8	3.8	3.8	4	4.3
	Pipe size	B(MPT)	1-1/2"	2"	2"	2-1/2"	2-1/2"
Condenser	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	7.5	11.25	15	18.75	22.5
	Pressure drop	mAq	5	5	5.5	6	6
	Pipe size	B	1-1/2"	2"	2"	2-1/2"	2-1/2"
Control devices			Mechanical Control				
Protection devices			High/low pressure switch, anti-freeze switch, fusible plug, over current relay, compressor internal thermostat, thermal overload, phase reversal relay.				
Outline Dimensions	A	mm	1400	1400	1650	1650	1650
	B	mm	700	700	700	700	700
	C	mm	1350	1350	1460	1460	1460
	D	mm	1300	1300	1550	1550	1550
	E	mm	670	670	670	670	670
Net Weight		kg	530	620	775	805	820
Operating weight		kg	585	665	835	870	890
Power consumption per ton		kW/USRT	0.78	0.78	0.78	0.78	0.78
COP		kW/kW	4.45	4.45	4.45	4.45	4.45
E.E.R		kcal/hr/W	3.83	3.83	3.83	3.83	3.83
Noise (Measured distance 1 M)		dB(A)	62 +2 ↓	65 +2 ↓	65 +2 ↓	69 +2 ↓	71 +2 ↓

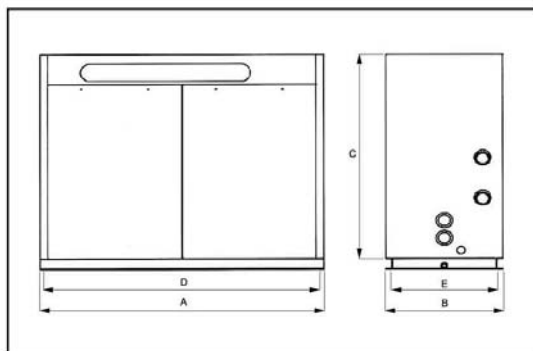
Note : 1.Nominal cooling capacity conditions : chilled water in 12℃ , out 7℃ ,Fouling factor : 0.000018m²℃/W, where cooling water in 30℃ , out 35℃ ,
Fouling factor : 0.000044m²℃/W.

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Hermetic Scroll Water Chiller (Packaged Type)

R-22

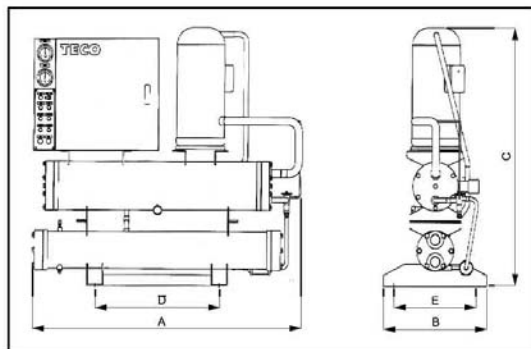


Specifications

Model			PQA-K131CLTP PQA-K131SLTP PQA-K131RLTP	PQA-K157CLTP PQA-K157SLTP PQA-K157RLTP	PQA-K175CLFP PQA-K175SLFP PQA-K175RLFP	PQA-K210CLFP PQA-K210SLFP PQA-K210RLFP
Item						
Power supply			3φ- 220V / 380V / 440V- 60Hz			
Refrigerating capacity		kW	130.8	157	174.4	209.3
		kcal/hr	112,500	135,000	150,000	180,000
Power consumption		kW	29.4	35.25	39.2	47
220V 【C】 Running Current		A	96	130.5	128	174
380V 【S】 Running Current		A	53.7	76.8	71.6	102.4
440V 【R】 Running Current		A	47.2	65.8	62.9	87.7
220V 【C】 Starting Current		A	256	348	288	391.5
380V 【S】 Starting Current		A	143.2	204.8	161.1	230.4
440V 【R】 Starting Current		A	283.1	394.7	377.7	526.3
Capacity control		%	100 , 67 , 33 , 0		100 , 75 , 50 , 25 , 0	
Compressor	Type		Hermetic Scroll			
	Quantity		3		4	
	Starting method		Directly Sequence Start			
	Revolution	r.p.m	3500			
	Output	kW	9.75 * 3	11.25 * 3	9.75 * 4	11.25 * 4
	Crankcase heater	W	—			
Refrigeration Oil	Type		Mineral-160P	3GS	Mineral-160P	3GS
	Quantity	L	3.3	4.14	3.3	4.14
Refrigerant	Type		R22			
	Quantity	kg	6.7 * 3	8 * 3	6.7 * 4	8 * 4
	Control		Thermal Expansion Valve with External Pressure Equalizer			
Chiller	Type		Shell and Tube			
	Quantity		1			
	Water flow rate	m³/h	22.5	27	30	36
	Pressure drop	mAq	4.5	4.6	4.5	5
	Pipe size	B(MPT)	3"	3"	3"	3"
Condenser	Type		Shell and Tube			
	Quantity		1			
	Water flow rate	m³/h	28.125	33.75	37.5	45
	Pressure drop	mAq	5.8	6	6	6
	Pipe size	B	3"	3"	2-1/2"	2-1/2"
Control devices			Mechanical Control			
Protection devices			High/low pressure switch, anti-freeze switch, fusible plug, over current relay, compressor internal thermostat, thermal overload, phase reversal relay.			
Outline Dimensions	A	mm	2300	2300	2500	2500
	B	mm	800	800	1000	1000
	C	mm	1550	1550	1550	1550
	D	mm	800	800	1000	1000
	E	mm	710	710	970	970
Net Weight		kg	1260	1325	1620	1720
Operating weight		kg	1380	1445	1755	1855
Power consumption per ton		kW/USRT	0.78	0.78	0.78	0.78
COP		kW/kW	4.45	4.45	4.45	4.45
E.E.R		kcal/hr/W	3.83	3.83	3.83	3.83
Noise (Measured distance 1 M)		dB(A)	72 +2 ↓	72 +2 ↓	73 +2 ↓	74 +2 ↓

Note : 1.Nominal cooling capacity conditions : chilled water in 12℃ , out 7℃ ,Fouling factor : 0.000018m²℃/W, where cooling water in 30℃ , out 35℃ ,
Fouling factor : 0.000044m²℃/W.

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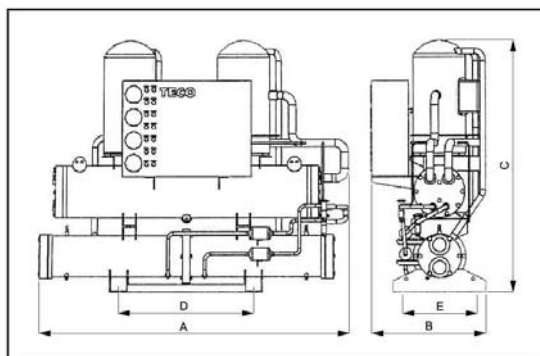


Specifications

Model			PQA-K18CLS PQA-K18SLS PQA-K18RLS	PQA-K27CLS PQA-K27SLS PQA-K27RLS	PQA-K35CLS PQA-K35SLS PQA-K35RLS	PQA-K44CLS PQA-K44SLS PQA-K44RLS	PQA-K53CLS PQA-K53SLS PQA-K53RLS
Item							
Power supply			3φ- 220V / 380V / 440V- 60Hz				
Refrigerating capacity	kW		17.4	26.2	34.9	43.6	52.3
	kcal/hr		15,000	22,500	30,000	37,500	45,000
Power consumption	kW		3.92	5.875	7.84	9.8	11.75
220V 【C】 Running Current	A		12.8	19	25.3	32	43.5
380V 【S】 Running Current	A		7.4	11	14.65	17.9	25.6
440V 【R】 Running Current	A		6.4	9.5	12.7	15.7	21.9
220V 【C】 Starting Current	A		76.8	114	151.8	192	261
380V 【S】 Starting Current	A		44.4	66	87.9	107.4	153.6
440V 【R】 Starting Current	A		38.4	57	75.9	94.4	131.6
Capacity control	%		100 , 0				
Compressor	Type		Hermetic Scroll				
	Quantity		1				
	Starting method		Directly Start				
	Revolution	r.p.m	3500				
	Output	kW	3.75 * 1	7.5 * 1	7.5 * 1	9.75 * 1	11.25 * 1
	Crankcase heater	W	—				
Refrigeration Oil	Type		4GS	3GS	Mineral-160P	Mineral-160P	3GS
	Quantity	L	1.7	3.253	3.3	3.3	4.14
Refrigerant	Type		R22				
	Quantity	kg	2.5	5	5	6.7	8
	Control		Thermal Expansion Valve with External Pressure Equalizer				
Chiller	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	3	4.5	6	7.5	9
	Pressure drop	mAq	1.3	3	3	3	3
	Pipe size	B(MPT)	1-1/4"	1-1/2"	1-1/2"	2"	2"
Condenser	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	3.75	5.625	7.5	9.375	11.25
	Pressure drop	mAq	4	4.7	4.7	4.7	5
	Pipe size	B	1-1/4"	1-1/2"	1-1/2"	2"	2"
Control devices			Mechanical Control				
Protection devices			High/low pressure switch, anti-freeze switch, fusible plug, over current relay, compressor internal thermostat, thermal overload, phase reversal relay.				
Outline Dimensions	A	mm	1000	1150	1300	1385	1385
	B	mm	500	500	500	500	500
	C	mm	1050	1050	1160	1220	1270
	D	mm	350	600	600	600	600
	E	mm	400	400	400	400	400
Net Weight	kg		260	295	345	415	420
Operating weight	kg		275	320	360	465	470
Power consumption per ton	kW/USRT		0.78	0.78	0.78	0.78	0.78
COP	kW/kW		4.45	4.45	4.45	4.45	4.45
E.E.R	kcal/hr/W		3.83	3.83	3.83	3.83	3.83
Noise (Measured distance 1 M)	dB(A)		70 +2 ↓	71 +2 ↓	71 +2 ↓	76 +2 ↓	78 +2 ↓

Note : 1.Nominal cooling capacity conditions : chilled water in 12℃ , out 7℃ ,Fouling factor : 0.000018m²℃/W, where cooling water in 30℃ , out 35℃ ,
Fouling factor : 0.000044m²℃/W.

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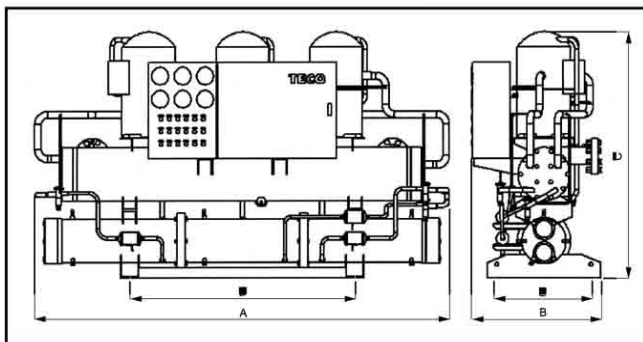


Specifications

Model			PQA-K35CLD PQA-K35SLD PQA-K35RLD	PQA-K53CLD PQA-K53SLD PQA-K53RLD	PQA-K70CLD PQA-K70SLD PQA-K70RLD	PQA-K88CLD PQA-K88SLD PQA-K88RLD	PQA-K105CLD PQA-K105SLD PQA-K105RLD
Item							
Power supply			3φ- 220V / 380V / 440V- 60Hz				
Refrigerating capacity	kW		34.9	52.3	69.8	87.2	104.7
	kcal/hr		30,000	45,000	60,000	75,000	90,000
Power consumption	kW		7.84	11.75	15.68	19.6	23.5
220V 【C】 Running Current	A		25.6	38	50.6	64	87
380V 【S】 Running Current	A		14.8	22	29.3	35.8	51.2
440V 【R】 Running Current	A		12.8	19	25.3	31.5	43.9
220V 【C】 Starting Current	A		89.6	133	177.1	224	304.5
380V 【S】 Starting Current	A		51.8	77	102.55	125.3	179.2
440V 【R】 Starting Current	A		76.7	114	151.8	188.8	263.2
Capacity control	%		100 , 50 , 0				
Compressor	Type		Hermetic Scroll				
	Quantity		2				
	Starting method		Directly Sequence Start				
	Revolution	r.p.m	3500				
	Output	kW	3.75 * 2	7.5 * 2	7.5 * 2	9.75 * 2	11.25 * 2
	Crankcase heater	W	—				
Refrigeration Oil	Type		4GS	3GS	Mineral-160P	Mineral-160P	3GS
	Quantity	L	1.7	2.514	3.3	3.3	4.14
Refrigerant	Type		R22				
	Quantity	kg	2.5 * 2	5 * 2	5 * 2	6.7 * 2	8 * 2
	Control		Thermal Expansion Valve with External Pressure Equalizer				
Chiller	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	6	9	12	15	18
	Pressure drop	mAq	3.8	3.8	3.8	4	4.3
	Pipe size	B(MPT)	1-1/2"	2"	2"	2-1/2"	2-1/2"
Condenser	Type		Shell and Tube				
	Quantity		1				
	Water flow rate	m ³ /h	7.5	11.25	15	18.75	22.5
	Pressure drop	mAq	5	5	5.5	6	6
	Pipe size	B	1-1/2"	2"	2"	2-1/2"	2-1/2"
Control devices			Mechanical Control				
Protection devices			High/low pressure switch, anti-freeze switch, fusible plug, over current relay, compressor internal thermostat, thermal overload, phase reversal relay.				
Outline Dimensions	A	mm	1300	1385	1385	1695	1710
	B	mm	625	650	650	650	650
	C	mm	1070	1215	1275	1275	1330
	D	mm	600	730	730	730	730
	E	mm	400	400	400	400	400
Net Weight	kg		430	510	645	675	690
Operating weight	kg		475	555	705	740	760
Power consumption per ton	kW/USRT		0.78	0.78	0.78	0.78	0.78
COP	kW/kW		4.45	4.45	4.45	4.45	4.45
E.E.R	kcal/hr/W		3.83	3.83	3.83	3.83	3.83
Noise (Measured distance 1 M)	dB(A)		72 +2 ↓	74 +2 ↓	74 +2 ↓	78 +2 ↓	80 +2 ↓

Note : 1.Nominal cooling capacity conditions : chilled water in 12℃ , out 7℃ ,Fouling factor : 0.000018m²℃/W, where cooling water in 30℃ , out 35℃ ,
Fouling factor : 0.000044m²℃/W.

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Specifications

Model			PQA-K131CLT PQA-K131SLT PQA-K131RLT	PQA-K157CLT PQA-K157SLT PQA-K157RLT	PQA-K175CLF PQA-K175SLF PQA-K175RLF	PQA-K210CLF PQA-K210SLF PQA-K210RLF
Item						
Power supply			3φ- 220V / 380V / 440V- 60Hz			
Refrigerating capacity		kW	130.8	157	174.4	209.3
		kcal/hr	112,500	135,000	150,000	180,000
Power consumption		kW	29.4	35.25	39.2	47
220V 【C】 Running Current		A	96	130.5	128	174
380V 【S】 Running Current		A	53.7	76.8	71.6	102.4
440V 【R】 Running Current		A	47.2	65.8	62.9	87.7
220V 【C】 Starting Current		A	256	348	288	391.5
380V 【S】 Starting Current		A	143.2	204.8	161.1	230.4
440V 【R】 Starting Current		A	283.1	394.7	377.5	526.3
Capacity control		%	100 , 67 , 33 , 0		100 , 75 , 50 , 25 , 0	
Compressor	Type		Hermetic Scroll			
	Quantity		3		4	
	Starting method		Directly Sequence Start			
	Revolution	r.p.m	3500			
	Output	kW	9.75 * 3	11.25 * 3	9.75 * 4	11.25 * 4
	Crankcase heater	W	—			
Refrigeration Oil	Type		Mineral-160P	3GS	Mineral-160P	3GS
	Quantity	L	3.3	4.14	3.3	4.14
Refrigerant	Type		R22			
	Quantity	kg	6.7 * 3	8 * 3	6.7 * 4	8 * 4
	Control		Thermal Expansion Valve with External Pressure Equalizer			
Chiller	Type		Shell and Tube			
	Quantity		1			
	Water flow rate	m³/h	22.5	27	30	36
	Pressure drop	mAq	4.5	4.6	4.5	5
	Pipe size	B(MPT)	3"	3"	3"	3"
Condenser	Type		Shell and Tube			
	Quantity		1			
	Water flow rate	m³/h	28.125	33.75	37.5	45
	Pressure drop	mAq	5.8	6	6	6
	Pipe size	B	3"	3"	2-1/2"	2-1/2"
Control devices			Mechanical Control			
Protection devices			High/low pressure switch, anti-freeze switch, fusible plug, over current relay, compressor internal thermostat, thermal overload, phase reversal relay.			
Outline Dimensions	A	mm	2370	2370	2300	2310
	B	mm	700	700	800	800
	C	mm	1275	1450	1375	1425
	D	mm	1200	1200	1200	1200
	E	mm	500	500	700	700
Net Weight		kg	1060	1125	1380	1480
Operating weight		kg	1180	1245	1515	1615
Power consumption per ton		kW/USRT	0.78	0.78	0.78	0.78
COP		kW/kW	4.45	4.45	4.45	4.45
E.E.R		kcal/hr/W	3.83	3.83	3.83	3.83
Noise (Measured distance 1 M)		dB(A)	81 +2 ↓	81 +2 ↓	82 +2 ↓	83 +2 ↓

Note : 1.Nominal cooling capacity conditions : chilled water in 12℃ , out 7℃ ,Fouling factor : 0.000018m²℃/W, where cooling water in 30℃ , out 35℃ ,
Fouling factor : 0.000044m²℃/W.

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