



เครื่องปรับอากาศ “แคเรียร์”



07TD Series

Water Cooled Condensing Unit
Nominal Cooling Range 1-5 Tons



World's No.1 Air Conditioning Expert

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07TD Series



Features

Highly efficient plate heat exchanger minimizes condenser water flow requirement. Unit efficiency is substantially higher than for comparable air-cooled condensing units.

Long unit life: Phase compressor protected from current and temperature overloads. For 07TD036BSC - 060SC protective devices include high and low pressure safety switches.
(Option for 07TD012 - 024SC models)

Start capacitor, running capacitor and relay for compressor

Optional : 07TF series (R407C)

Compressor shot cycling on safety device, thermostat or power interruption by preventing compressor from restarting for 3 minutes.
(Option for all models)

Physical Data

Description			Water Cooled Condensing Unit						
Model			07TD012	07TD018SC	07TD024SC	07TD036BSC	07TD036SC	07TD048SC	07TD060SC
Nominal Capacity	BTU/Hr		13,000	19,000	24,000	36,000	36,000	48,000	60,000
Approx. Operating Weight	kg		36	50	53	57	57	70	83
Compressor	Quantity		1						
	Type		Rotary	Hermetic Scroll Compressor					
Condenser			Water Cooled, Plate Heat Exchanger						
Connection	Water Inlet & Outlet	IN FPT	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Refrigerant, Suction	IN ODF	5/8	5/8	5/8	3/4	3/4	3/4	3/4
	Liquid	IN ODF	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Overall Dimension	Height	mm.	400	452	452	452	452	560	560
	Width	mm.	350	352	352	352	352	390	390
	Depth	mm.	310	462	462	462	462	490	490
High Pressure Switch	Cut in-out (psi) 275-395		Option			Standard			
Low Pressure Switch	Cut in-out (psi) 60-30		Option			Standard			
Solid State Timer	3 min. delay		Option for all model						

Electrical Data (50HZ)

Model		07TD012	07TD018SC	07TD024SC	07TD036BSC	07TD036SC	07TD048SC	07TD060SC
Nominal Power Supply	V/Ph/Hz	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50	380/3/50
Permissible Voltage Limits	V	198-264	198-264	198-264	198-264	342-462	342-462	342-462
Nominal Voltage Limits of Distribution Network	V	220-240	220-240	220-240	220-240	380-420	380-420	380-420
Compressor	LRA	28	47	61	97	46	62	74
	RLA	5.3	9.6	12.9	17.1	7.1	8.2	10.0

Performance Data

Model	SST DEG F	Entering Water Temperature, DEG F								
		80			90			100		
		CAP	KW	GPM	CAP	KW	GPM	CAP	KW	GPM
07TD012SC	30	12.10	0.90	2.80	11.40	1.10	2.70	10.10	1.00	2.40
	40	14.60	1.10	3.40	13.70	1.30	3.20	12.20	1.20	2.80
	50	17.50	1.30	4.10	16.40	1.50	3.80	14.60	1.60	3.40
07TD018SC	30	17.10	1.47	3.70	15.90	1.70	3.50	14.00	2.00	3.10
	40	21.00	1.46	4.60	19.50	1.68	4.30	17.30	1.96	3.80
	50	25.30	1.46	5.50	23.50	1.67	5.10	20.80	1.93	4.60
07TD024SC	30	21.10	1.86	4.60	19.60	2.11	4.40	17.30	2.41	3.80
	40	25.90	1.83	5.60	24.10	2.08	5.20	21.30	2.37	4.70
	50	31.30	1.81	6.80	29.00	2.04	6.30	25.70	2.33	5.60
07TD036BSC	30	31.80	2.65	6.90	29.50	3.02	6.40	26.10	3.45	5.70
	40	39.10	2.62	8.50	36.30	2.98	7.90	32.10	3.40	7.00
	50	47.10	2.58	10.20	43.70	2.93	9.50	38.70	3.35	8.40
07TD036SC	30	31.80	2.62	6.90	29.50	2.97	6.40	26.10	3.37	5.70
	40	39.10	2.58	8.50	36.30	2.93	7.90	32.10	3.33	7.00
	50	47.10	2.54	10.20	43.70	2.88	9.50	38.70	3.28	8.40
07TD048SC	30	41.60	3.36	9.20	37.90	3.76	8.40	33.80	4.21	7.60
	40	52.80	3.39	11.80	48.60	3.80	10.60	44.40	4.26	9.30
	50	63.10	3.42	13.60	58.40	3.83	12.70	54.30	4.29	11.20
07TD060SC	30	53.60	4.15	11.50	43.80	4.69	10.40	39.30	5.31	9.50
	40	64.00	4.15	15.10	60.40	4.69	13.30	54.50	5.29	11.60
	50	76.60	4.18	17.00	72.30	4.70	15.90	68.20	5.30	14.00

CAP Capacity (1000 BTU/hr)
KW Unit Power Input
GPM Cooling Water Flow Rate
SST Saturated Suction Temperature

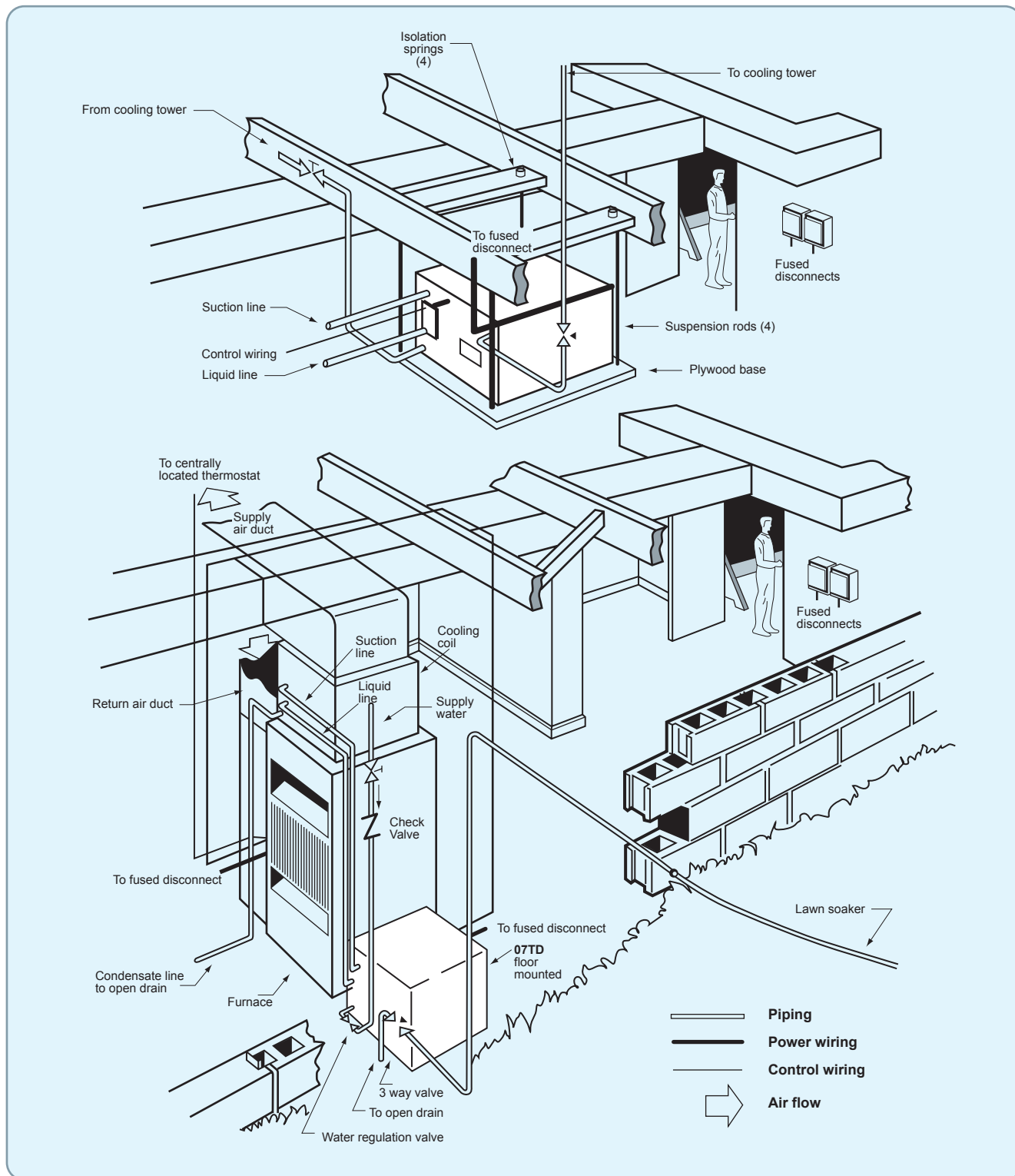
NOTE:

1. Interpolation is permissible. Do not extrapolate.
2. Rating base on 15°F subcooling in condenser, 10°F superheat in evaporator, 10°F water temperature rise, 0.0005 fouling factor.

Water Pressure Drop (In Ft. Wg.)

Model	Flow Rate (GPM)																	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
07TD012	2.1	2.6	4.1	5.6														
07TD018SC		2.1	4.0	5.9	7.8	9.7												
07TD024SC		2.8	4.7	6.6	8.5	10.4												
07TD036(BSC/SC)				5.2	6.7	8.6	10.5	12.4										
07TD048SC								5.7	6.3	7.8	9.4	10.6	12.5	13.3				
07TD060SC										6.2	7.4	8.5	9.7	10.4	11.6	12.9	14.1	

Typical piping and wiring



บริษัท แคนเรียร์ (ประเทศไทย) จำกัด

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