



07TEU Series

Water Cooled Condensing Unit

Nominal Cooling Range 1-5 Tons

Refrigerant R-410A



07TEU Series



07TEU water cooled condensing unit is small, compact and use a minimum of water. Each unit may be installed single or in multiples, on the floor, suspended from a ceiling or positioned in a closet. Seven sizes, when matched or mix-matched with evaporator sections provide a wide range of capacities.

Features

- **Compatible fittings** permit either mechanical (quick) or sweat connection without the use of adapters, and liquid & suction service valve.
- **Lasting beauty and protection** of Weather Armor casing is positive shields against rust and corrosion. Cabinet is made from galvanized steel, bonderized, and painted with baked enamel.
- **Low operating sound** permits flexibility of unit location. Cabinet is internally insulated to absorb operating sound. Vibration isolators are fitted under both compressor and condenser.
- **Time Guard circuit** prevents compressor shot cycling on safety device, thermostat or power interruption by preventing compressor from restarting for 3 minutes. (Option for all models)
- **Highly efficient** plate heat exchanger minimizes condenser water flow requirement. Unit efficiency is substantially higher than for comparable air-cooled condensing units.
- **Start capacitor, running capacitor and relay for compressor**
- **Environment friendly with R-410A refrigerant for all range comply.**

Physical Data

Description		Water Cooled Condensing Unit										
Model		07TEU012R100	07TEU018R100	07TEU018S101	07TEU024R100	07TEU024S101	07TEU036R100	07TEU036S101	07TEU036S301	07TEU048S301	07TEU060S301	
Nominal Capacity	BTU/Hr.	12,000	18,000	18,000	24,000	24,000	36,000	36,000	36,000	48,000	60,000	
Power Supply	V/Ph/Hz	220 / 1 / 50							380 / 3 / 50			
Operating Current	A.	5.2	7.3	9.0	9.3	9.9	14.7	19.5	6.1	9.6	11.0	
Compressor	Quantity	1	1	1	1	1	1	1	1	1	1	
	Type	Rotary	Rotary	Scroll	Rotary	Scroll	Rotary	Scroll	Scroll	Scroll	Scroll	
Condenser	Type	Water Cooled, Plate Heat Exchanger										
Water Connection	Type	Female Pipe Thread										
	Inlet & Outlet	Inch.	3/4"									
Refrigerant Connection Pipe	Liquid	Inch.	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
	Suction	Inch.	1/2"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"	7/8"	
Overall Dimension	Height	mm.	400	400	400	560	560	560	560	560	560	
	Width	mm.	355	355	355	405	405	405	405	405	455	
	Depth	mm.	355	355	355	405	405	405	405	405	455	
Refrigerant	Type	R-410A										
	Pre-Charging from Factory	kg.	0.40	0.40	0.40	0.80	0.80	0.85	0.85	0.85	0.85	
High Pressure Switch	psi	None					600 +25 / 420 +15 (Cut out / Cut in) - Auto Restart type					
Low Pressure Switch	psi	None							65 +5 / 115 +5 (Cut out / Cut in) - Auto Restart type			
Approx. Operating Weight	Kg.	35.0	34.0	45.0	44.0	45.0	55.0	61.0	61.0	67.0	67.0	

Performance Data

Model	SST (°F)	Leaving Water Temperature Degree (°F)								
		100			110			120		
		CAP	KW	GPM	CAP	KW	GPM	CAP	KW	GPM
07TEU012R100	30	10.25	0.85	2.56	9.37	0.94	2.34	8.48	1.04	2.12
	40	12.61	0.86	3.15	11.58	0.96	2.90	10.53	1.07	2.63
	50	15.31	0.86	3.83	14.12	0.96	3.53	112.88	1.08	28.22
07TEU018R100	30	14.18	1.26	3.55	12.97	1.38	3.24	11.73	1.53	2.93
	40	17.45	1.27	4.36	16.03	1.41	4.01	14.57	1.57	3.64
	50	21.19	1.26	5.30	19.55	1.42	4.89	17.84	1.59	4.46
07TEU018S101	30	14.00	1.35	3.50	12.90	1.56	3.23	11.70	1.80	2.93
	40	17.30	1.33	4.33	16.00	1.53	4.00	14.65	1.77	3.66
	50	21.10	1.31	5.28	19.60	1.51	4.90	18.05	1.74	4.51
07TEU024R100	30	18.24	1.67	4.56	16.77	1.84	4.19	15.21	2.01	3.80
	40	22.56	1.69	5.64	20.79	1.88	5.20	18.88	2.07	4.72
	50	27.58	1.70	6.90	25.47	1.89	6.37	23.19	2.10	5.80
07TEU024S101	30	18.90	1.82	4.73	17.50	2.01	4.38	16.00	2.22	4.00
	40	23.50	1.78	5.88	21.80	1.97	5.45	20.20	2.20	5.05
	50	28.60	1.71	7.15	26.60	1.92	6.65	24.80	2.15	6.20
07TEU036R100	30	27.89	2.57	6.97	25.65	2.81	6.41	23.24	3.07	5.81
	40	34.50	2.59	8.63	31.79	2.87	7.95	28.86	3.16	7.22
	50	42.18	2.59	10.55	38.94	2.89	9.74	35.44	3.21	8.86
07TEU036S101	30	29.50	2.71	7.38	27.20	3.10	6.80	24.70	3.58	6.18
	40	36.80	2.66	9.20	34.10	3.04	8.53	31.10	3.51	7.78
	50	45.20	2.63	11.30	42.10	3.00	10.53	38.60	3.46	9.65
07TEU036S301	30	29.10	2.61	7.28	26.80	3.03	6.70	24.30	3.53	6.08
	40	36.20	2.55	9.05	33.50	2.95	8.38	30.70	3.43	7.68
	50	44.30	2.49	11.08	41.20	2.87	10.30	37.90	3.33	9.48
07TEU048S301	30	40.90	3.55	10.23	37.90	4.11	9.48	34.60	4.75	8.65
	40	50.00	3.50	12.50	46.60	4.04	11.65	42.90	4.65	10.73
	50	60.50	3.45	15.13	56.50	3.97	14.13	52.50	4.57	13.13
07TEU060S301	30	50.50	4.36	12.63	47.00	4.97	11.75	43.00	5.65	10.75
	40	62.00	4.38	15.50	57.50	4.98	14.38	53.00	5.65	13.25
	50	74.50	4.39	18.63	69.50	4.98	17.38	64.50	5.65	16.13

CAP : Capacity (1000BTU/hr)

KW : Unit Power Supply

GPM : Cooling Water Flow Rate

SST : Saturated Suction Temperature

Condition :

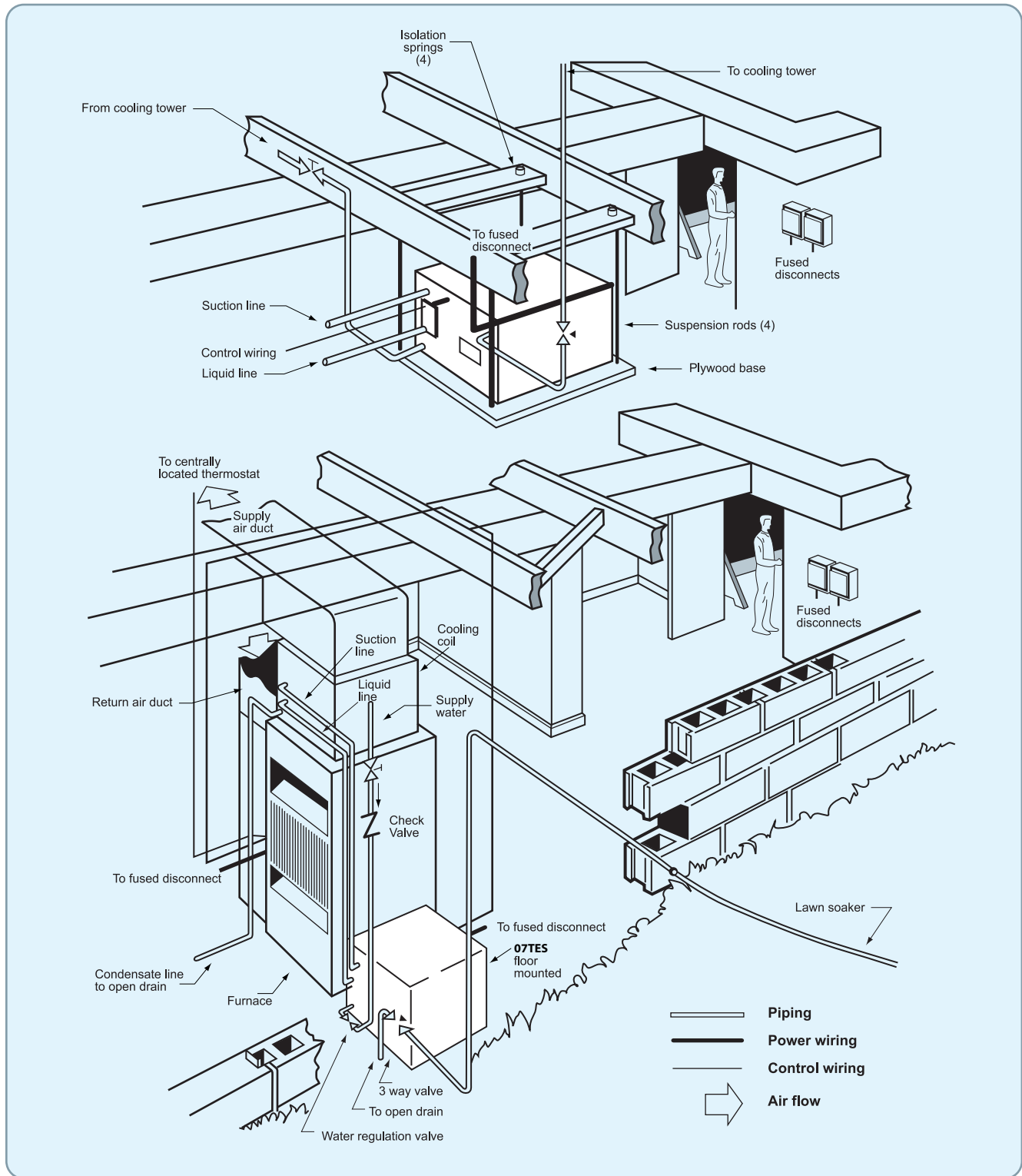
1. Interpolation is permissible. Do not extrapolate

2. Rating base on 15 °F subcooling is condensor, 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	14	15	16	17	18
07TEU012R100	2.1	2.6	4.1	5.6												
07TEU018R100		2.1	4.0	5.9	7.8	9.7										
07TEU018S101		2.1	4.0	5.9	7.8	9.7										
07TEU024R100		2.8	4.7	6.6	8.5	10.4										
07TEU024S101		2.8	4.7	6.6	8.5	10.4										
07TEU036R100				5.2	6.7	8.6	10.5	12.4								
07TEU036S101				5.2	6.7	8.6	10.5	12.4								
07TEU036S301				5.2	6.7	8.6	10.5	12.4								
07TEU048S301								5.7	6.3	7.8	9.4	12.5	13.3			
07TEU060S301										6.2	7.4	9.7	10.4	11.6	12.9	14.1

Typical piping and wiring



บริษัท แคนเรียร์ (ประเทศไทย) จำกัด
 1858/63-74 ชั้น 14, 15
 ด.เทพรัตน กม. 4.5 แขวงบางนาใต้
 เขตบางนา กรุงเทพฯ 10260
 โทร. 0-2090-9999 แฟกซ์: 0-2751-4778

Carrier (Thailand) Ltd.
 1858/63-74 , 14th, 15th Floor,
 Debaratna Road, Km.4.5, Bangna Tai,
 Bangna Bangkok 10260 Thailand
 Tel. 0-2090-9999 Fax: 0-2751-4778



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