



## 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	07TEU018S101	07TEU024S101	07TEU036S101	07TEU036S301	07TEU048S301	07TEU060S301
Nominal Capacity	BTU/Hr.	12,000	18,000	24,000	36,000	36,000	48,000	60,000
Power Supply	V/Ph/Hz	220 / 1 / 50				380 / 3 / 50		
Operating Current	A.	5.2	8.1	8.8	16.7	5.7	10.7	9.8
Compressor	Quantity	1	1	1	1	1	1	1
	Type	Rotary	Scroll					
Condenser	Type	Water Cooled, Plate Heat Exchanger						
Water Connection	Type	Female Pipe Thread						
	Inlet & Outlet	Inch.	3/4"					
Refrigerant Connection	Liquid	Inch.	1/4"	3/8"				
Pipe	Suction	Inch.	1/2"	5/8"	3/4"	7/8"		
Overall Dimension	Height	mm.	400		560			
	Width	mm.	355		405		455	
	Depth	mm.	355		405		455	
Refrigerant	Type	R-410A						
	Pre-Charging from Factory	kg.	0.400	0.400	0.800	0.850	0.850	0.850
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.	30.0	31.0	44.0	53.0	53.0	56.0	65.0

## Performance Data

Model	SST (°F)	Leaving Water Temperature Degree ( F )								
		100			110			120		
		CAP	KW	GPM	CAP	KW	GPM	CAP	KW	GPM
07TEU012R100	30	10.33	0.81	2.62	8.83	0.96	2.42	7.32	1.16	2.26
	40	12.41	0.81	3.03	10.68	0.98	2.81	8.92	1.19	2.60
	50	14.73	0.80	3.49	14.79	0.99	3.63	10.71	1.22	2.98
07TEU018S101	30	16.30	1.44	4.24	13.95	1.72	3.96	11.56	2.06	3.72
	40	19.57	1.44	4.90	16.87	1.75	4.57	14.07	2.13	4.27
	50	23.28	1.43	5.63	20.20	1.76	5.24	16.93	2.18	4.87
07TEU024S101	30	20.26	1.77	5.26	17.50	2.12	4.95	14.51	2.46	4.58
	40	24.47	1.78	6.11	21.20	2.15	5.71	17.62	2.54	5.26
	50	29.28	1.78	7.07	25.48	2.16	6.57	21.20	2.60	6.02
07TEU036S101	30	30.38	2.65	7.88	26.23	3.17	7.41	21.77	3.68	6.87
	40	36.69	2.67	9.16	31.79	3.22	8.56	26.42	3.80	7.88
	50	43.88	2.66	10.59	38.20	3.23	9.84	31.82	3.89	9.02
07TEU036S301	30	37.60	3.18	9.69	32.45	3.80	9.08	26.92	4.41	8.40
	40	45.42	3.20	11.27	39.36	3.86	10.51	32.70	4.55	9.65
	50	54.34	3.19	13.05	47.28	3.88	12.10	39.39	4.66	11.06
07TEU048S301	30	41.30	2.80	10.20	38.40	3.24	9.90	35.30	3.73	9.60
	40	50.40	2.40	11.70	47.10	3.19	11.60	42.50	3.68	11.00
	50	61.00	2.35	13.80	57.00	3.13	13.50	52.90	3.61	13.00
07TEU060S301	30	54.50	3.84	13.50	50.50	4.36	13.10	46.80	4.97	12.80
	40	66.00	3.86	15.80	62.00	4.38	15.40	57.50	4.98	14.90
	50	80.00	3.88	18.60	75.00	4.39	18.00	69.50	4.98	17.30

CAP : Capacity (1000BTU/hr)

KW : Unit Power Supply

GPM : Cooling Water Flow Rate

SST : Saturated Suction Temperature

Condition :

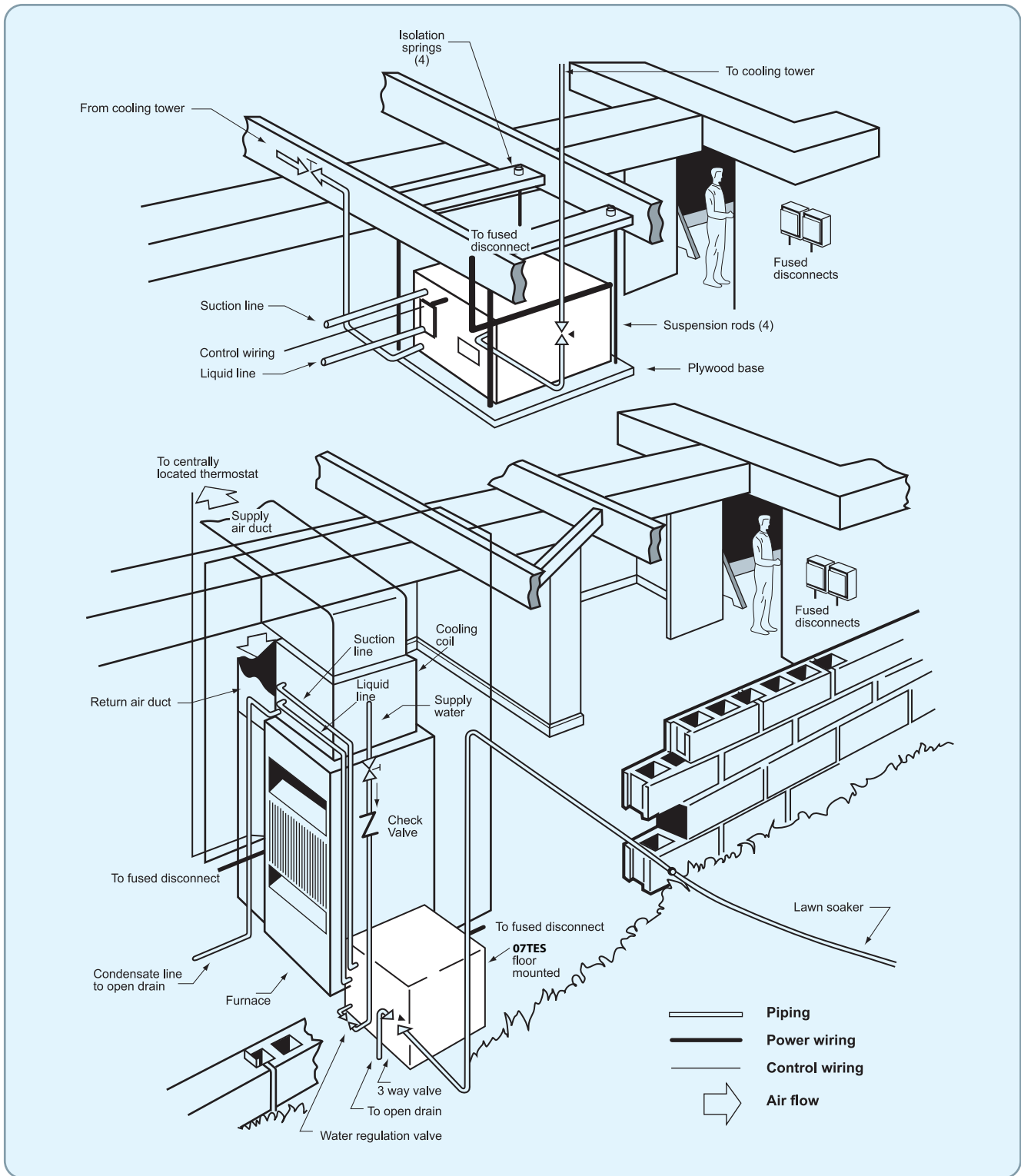
1. Interpolation is permissible. Do not extrapolate

2. Rating base on 15 °F subcooling is 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
07TEU012R100	2.1	2.6	4.1	5.6													
07TEU018S101		2.1	4.0	5.9	7.8	9.7											
07TEU024S101		2.8	4.7	6.6	8.5	10.4											
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	10.6	12.5	13.3			
07TEU060S301										6.2	7.4	8.5	9.7	10.4	11.6	12.9	14.1

# Typical piping and wiring



## บริษัท แคนเรียร์ (ประเทศไทย) จำกัด

1858/63-74 ชั้น 14,15  
 ถ.บางนา-ตราด กม. 4.5  
 บางนา กรุงเทพฯ 10260  
 โทร. 0-2762-9222 แฟกซ์: 0-2751-4778

## Carrier (Thailand) Ltd.

1858/63-74, 14<sup>th</sup>, 15<sup>th</sup> Floor,  
 Bangna-Trad Road, Km. 4.5,  
 Bangna, Bangkok 10260 Thailand  
 Tel. 0-2762-9222 Fax: 0-2751-4778



YOUR CARRIER MAN :

Carrier reserves the right to make changes in specifications without prior notice.  
 บริษัทฯ ขอสงวนสิทธิ์ที่จะเปลี่ยนแปลงรายละเอียดข้างต้น โดยไม่ต้องแจ้งให้ทราบล่วงหน้า