



## 07TEY Series

### Water Cooled Condensing Unit

Nominal Cooling Range 12,000-60,000 BTU/Hr.

Refrigerant R-32



TT Air Engineering



[www.carrier.co.th](http://www.carrier.co.th)

# 07TEY Series



**07TEY 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-32 refrigerant for all range comply.

## Physical Data

Description		Water Cooled Condensing Unit								
Model		07TEY012R100	07TEY018R100	07TEY024R100	07TEY036R100	07TEY036R300	07TEY048R300	07TEY060R300	07TEY048S301	07TEY060S301
Nominal Capacity	BTU/Hr.	12,000	18,000	24,000	36,000	36,000	48,000	60,000	48,000	60,000
Power Supply	V/PH/Hz	220/1/50				380/3/50				
Operating Current	A.	5.4	7.2	9.7	13.8	5.4	8.9	9.9	8.8	9
Compressor	Quantity	1	1	1	1	1	1	1	1	1
	Type	Rotary	Rotary	Rotary	Rotary	Rotary	Twin Rotary	Twin Rotary	Scroll	Scroll
Condenser	Type	Water Cooled ,PLATE HEAT EXCHANGER								
	Type	Female Pipe Thread								
Water Connection	Inlet & Outlet	Inch. 3/4"								
Refrigerant Connection pipe	Liquid	Inch. 1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	Suction	Inch. 3/8"	1/2"	1/2"	5/8"	5/8"	3/4"	3/4"	3/4"	3/4"
Overall Dimension	Height	mm. 400	450	535						
	Width	mm. 355	405	405	405	405	405	405	405	405
	Depth	mm. 355	455	455	455	455	455	455	455	455
Refrigerant	Type	R-32								
	Charge form Factory	kg. 0.4	0.4	0.8	0.85	0.85	0.85	1	0.85	1
High Pressure Switdh	psi	None			600 +25 / 420 +15 (Cut out / Cut in) - Auto Restart type					
Low Pressure Switdh	psi	None							65 +5 / 115 +5 (Cut out / Cut in) - Auto Restart type	
Approx. Operating Weight	kg.	30	35	44	55	55	60	60	65	65

## Performance Data

Model	SST 0 (F)	Leaving Water Temperature Degree (F)								
		100			110			120		
		CAP	KW	GPM	CAP	KW	GPM	CAP	KW	GPM
07TEY012R100	30	9.50	0.93	2.37	8.81	1.03	2.20	8.07	1.14	2.02
	40	11.72	0.92	2.93	10.91	1.03	2.73	10.02	1.15	2.51
	50	14.21	0.90	3.55	13.27	1.02	3.32	12.22	1.16	3.05
07TEY018R100	30	12.90	1.26	3.22	11.97	1.40	2.99	10.99	1.55	2.75
	40	15.92	1.25	3.98	14.84	1.40	3.71	13.64	1.57	3.41
	50	19.31	1.22	4.83	18.05	1.39	4.51	16.63	1.58	4.16
07TEY024R100	30	16.74	1.70	4.18	15.52	1.88	3.88	14.23	2.08	3.56
	40	20.66	1.68	5.16	19.24	1.89	4.81	17.67	2.11	4.42
	50	25.05	1.65	6.26	23.40	1.87	5.85	21.54	2.13	5.39
07TEY036R100	30	25.39	2.39	6.35	23.56	2.66	5.89	21.62	2.94	5.41
	40	31.35	2.38	7.84	29.21	2.67	7.30	26.85	2.98	6.71
	50	38.01	2.32	9.50	35.53	2.65	8.88	32.73	3.00	8.18
07TEY036R300	30	25.68	2.39	6.42	23.83	2.66	5.96	21.87	2.94	5.47
	40	31.71	2.38	7.93	29.54	2.67	7.39	27.16	2.98	6.79
	50	38.44	2.32	9.61	35.93	2.65	8.98	33.10	3.00	8.28
07TEY048R300	30	40.29	3.63	10.07	37.44	4.07	9.36	34.36	4.54	8.59
	40	49.55	3.62	12.39	46.12	4.11	11.53	42.53	4.63	10.63
	50	60.13	3.55	15.03	56.19	4.09	14.05	52.14	4.66	13.03
07TEY048S301	30	38.40	3.25	9.60	36.30	3.67	9.08	34.20	4.15	8.55
	40	46.90	3.29	11.73	44.30	3.71	11.08	41.60	4.19	10.40
	50	56.50	3.32	14.13	53.50	3.76	13.38	49.90	4.25	12.48
07TEY060R300	30	50.18	4.47	12.54	46.31	4.97	11.58	42.23	5.52	10.56
	40	61.77	4.50	15.44	57.12	5.05	14.28	52.30	5.65	13.08
	50	75.15	4.44	18.79	69.66	5.06	17.42	64.04	5.72	16.01
07TEY060S301	30	47.80	4.10	11.95	44.50	4.61	11.13	41.50	5.22	10.38
	40	57.70	4.14	14.43	54.00	4.63	13.50	50.20	5.23	12.55
	50	69.30	4.18	17.33	65.40	4.67	16.35	60.90	5.24	15.23

CAP : Capacity (1000BTU/hr)

KW : Unit Power Supply

GPM : Cooling Water Flow Rate

SST : Saturated Suction Temperature

Condition :

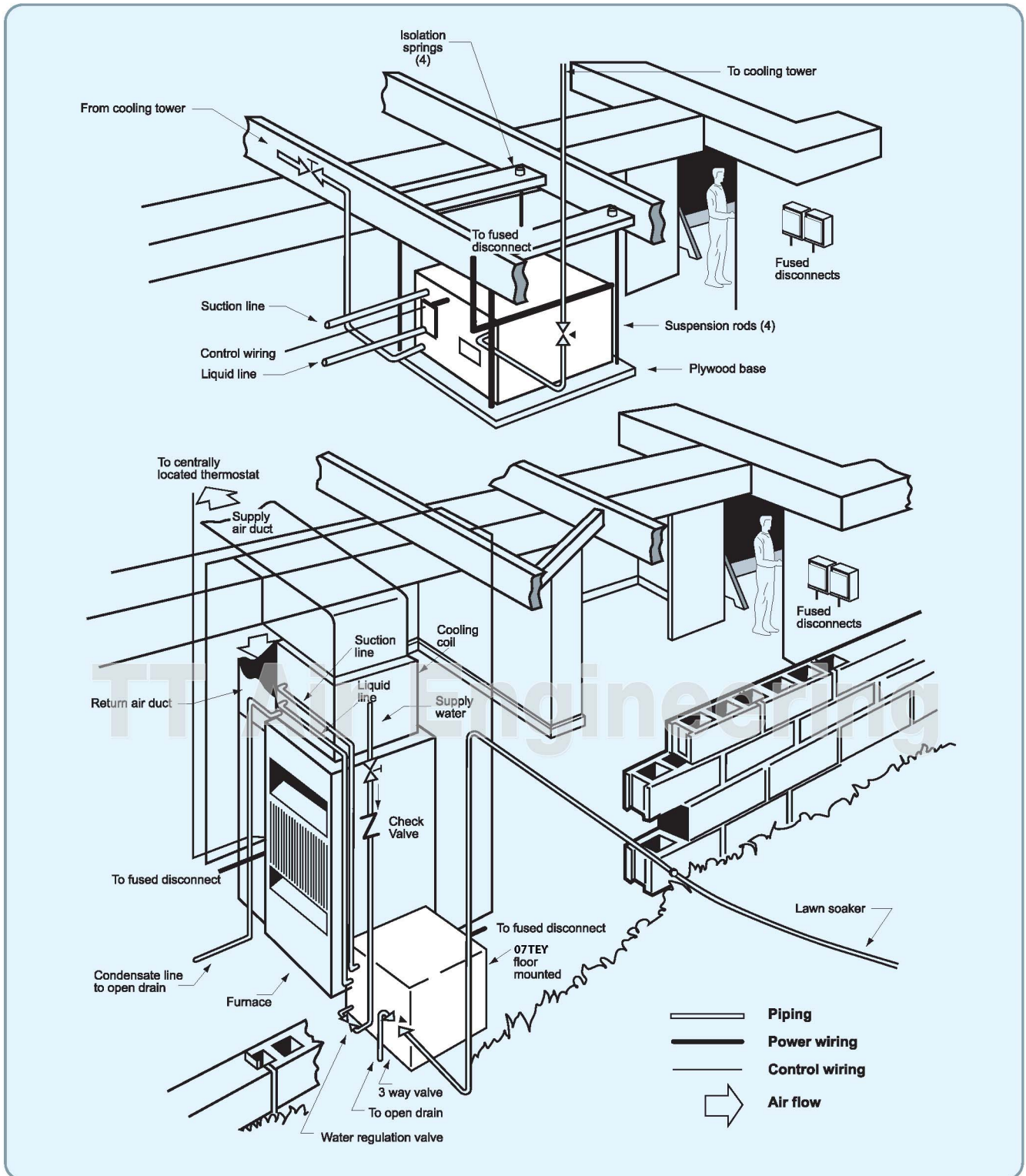
1. Interpolation is permissible. Do not extrapolate

2. Rating base on 15 °F subcooling is condensor, 10 °F superheat in evaporator, 10 °F water temperature rise , 0.0005 fuoling 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
07TEY012R100	2.1	2.6	4.1	5.6												
07TEY018R100		2.1	4.0	5.9	7.8	9.7										
07TEY024R100		2.8	4.7	6.6	8.5	10.4										
07TEY036R100				5.2	6.7	8.6	10.5	12.4								
07TEY036R300				5.2	6.7	8.6	10.5	12.4								
07TEY048R300								5.7	6.3	7.8	9.4	12.5	13.3			
07TEY048S301								5.7	6.3	7.8	9.4	12.5	13.3			
07TEY060R300										6.2	7.4	9.7	10.4	11.6	12.9	14.1
07TEY060S301										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  
 ถ.เทพรัตน กม. 4.5 แขวงบางนาใต้  
 เขตบางนา กรุงเทพฯ 10260  
 โทร. 0-2090-9999 แฟกซ์: 0-2751-4778

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



YOUR CARRIER MAN :

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