

Evaporator Condenser Ratings

An evaporator condenser rated at a condensing temperature of 100°F and a wet bulb temperature of 70°F will have rating factors under other conditions as follows:

Condenser Temp. °F	Entering Air Wet Bulb Temp. °F					
	55°	60°	65°	70°	75°	78°
90	0.98	0.88	0.75	0.58	0.32	0.43
95	1.00	1.00	0.91	0.80	0.67	0.59
100	1.02	1.02	1.11	1.00	0.87	0.79
105	1.05	1.05	1.16	1.05	1.00	1.00
110	1.10	1.02	1.15	1.10	1.10	1.12
115	1.09	1.05	1.15	1.15	1.24	1.47
120	1.20	1.13	1.00	1.00	1.00	1.15

Compressor Capacity vs Refrigerant

Refrigerant Temp. °F	Heat Rejection Ratio (40)	Capacity % Based on:			
		50°F	40°F	30°F	20°F
50	1.16	100			
40	1.18	95	100		
30	1.21	85	85	100	
20	1.25	75	67		100
10	1.30	65	54	30	
0	1.45	35	45	64	100
-10	1.53	28	34	50	78
-20	1.64	23	26	38	61
-30	1.77	15	18	27	42
-40	1.92	10	12	18	28

40 For sealed compressors.

The capacity of a typical compressor is reduced as the evaporating temperature is reduced because of increased specific volume (cu ft/lb) of the refrigerant and lower compressor volumetric efficiency. The average 1 hp compressor will have a capacity of nearly 12,000-btu/hr per ton, at 40°F refrigerant temperature, 100°F condensing temperature. A 10° rise/fall in condensing temperature will reduce/increase capacity about 6%.

Proper System Charging

Subcooling Charging Method - TXV (Expansion Valve)

Subcooling is defined as: The temperature of a liquid refrigerant when it is cooled below its condensing temperature. Subcooling takes place in the condenser and is determined by subtracting the liquid line temperature (as read on a thermometer strapped on the liquid line) from the saturation temperature (gauge temperature - the temperature that corresponds to the pressure read on the high side of the gauge).

- Locate the unit required subcooling from the name plate or product literature. (Typically 8-12°F).
- Measure liquid line temperature - convert to pressure.
- Subtract the required subcooling (1) from the converted temperature (2). This is the required liquid line temperature.
- Measure the liquid line temperature. If the measured temperature does not equal the required liquid line temperature:
 - Add refrigerant to lower the temperature.
 - Remove refrigerant to raise the temperature.
 - Allow a tolerance of +/- 3°F.

Superheat Charging Chart - Cooling - Non TXV (Expansion Valve)

Superheat is defined as: The temperature of vapor refrigerant above its saturation point (evaporation) temperature. Superheat occurs in the evaporator and is determined by subtracting the saturation temperature (the temperature that corresponds to the pressure read on the low-side gauge) from the suction line temperature (as read on a thermometer strapped on the suction line).

Cooling Tower Ratings

Temperatures °F			
Hot Water	Cold Water	Wet Bulb	Capacity Factor
90	60	70	0.85
92	62	70	1.00
95	65	70	1.24
98	68	72	0.74
92	62	72	0.88
95	65	72	1.12
98	68	74	1.00
95	65	76	0.88
98	68	78	0.75
98	68	80	0.62

Hot water - Cold Water = Range

Cold Water - Hot Water = Approach

The Capacity factor is a multiplier by which the capacity at any common assumed condition may be found if the rating at some other point is known. Factors are based on heat rejection ratio of 1.25 (15,000 btu/hr per ton) and gpm/ton flow rate.

Example: at 95-85-80, the capacity is 0.62/0.85 or 0.73 that of the rating of 90-80-70.

Capacity is reduced as the flow rate per ton is increased. If the refrigerant temperature is below 40°F, the heat rejection will be greater than 15,000 btu/hr per ton. Evaporation will cause increasing deposits of solids and fouling of the condenser tubes unless water is bled off. A bleed of 1% of the circulation rate will result in concentrations of twice the original solids (two concentrations), and 0.5% bleed will result in three concentrations.

Horsepower Per Ton

At 100°F condensing temperature vapor enters the compressor at 65°F

Refrig. Temp. °F	60	70	80	-20	-40
Practical Avg.	0.87	1.20	1.70	2.40	3.20

Required Superheat Condenser Entering Air - Dry Bulb												
Indoor Air - Wet Bulb	°F	55	60	65	70	75	80	85	90	95	100	105
	50	9	7	6	6	6	6	6	6	6	6	6
	52	12	10	8	8	8	8	8	8	8	8	8
	54	14	12	10	9	8	8	8	8	8	8	8
	56	17	15	13	10	9	8	8	8	8	8	8
	58	19	18	16	13	11	9	8	8	8	8	8
	60	23	21	19	16	13	11	9	8	8	8	8
	62	26	24	23	19	15	12	10	9	8	8	8
	64	29	27	24	21	18	15	13	11	9	8	8
	66	32	30	27	24	21	18	15	13	10	9	8
	68	35	33	30	27	24	21	19	16	14	12	10
	70	37	35	33	30	28	25	22	20	18	15	13
	72	40	38	36	33	31	28	25	24	22	20	17
	74	42	40	38	36	34	31	30	27	25	23	22
	76	45	43	41	39	37	35	33	31	29	27	26

- Measure the outdoor air (dry bulb) temperature, and indoor wet bulb temperature.
- Find the required superheat from the chart.
- Measure the suction line pressure - convert pressure to temperature.
- Add the required superheat (2) to the converted temperature (3). This is the required suction line temperature.
- Measure the suction line temperature. If the suction line temperature does not equal the required suction line temperature (4):
 - Add refrigerant to lower the suction line temperature.
 - Remove refrigerant to raise the suction line temperature.
 - Allow a tolerance of +/- 3°F.

Hvac Quick Reference Guide

Herbert Wendes



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web actor sunny leone dropped stunning pictures of herself on instagram today from the sets of her reality show mtv splitsvilla season 14 sunny posted the photos with a heart emoticon as the

sunny leone photos hot sexy pictures of sunny leone the - Dec 07 2022

web jun 16 2023 bollywood diva and former superstar of adult movie industry sunny leone aka karenjit kaur vohra who became an overnight sensation after she participated in bigg boss 5 never fails to tease

sunny leone sets the temperature soaring on instagram with her - Sep 04 2022

web apr 5 2020 taking to her instagram handle sunny shared a few pictures of herself where she is seen striking a pose in her blue bikini these pictures of the actress have surely set instagram on fire

sunny leone s sizzling instagram pictures times of india - Sep 16 2023

web sunny leone pics sunny leone raised temperatures with her stunning beach side pictures that she posted on instagram the actress looked stunning in a black bikini the black coloured cap and sunglasses added to the already sensuous look she posted this picture on instagram and wrote hanging poolside for mini vaca bangkok sic

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web feb 23 2019 sunny leone in classic black with a flawless complexion like that trust sunny to totally rock black colour whether it s a leather skirt or a cut out dress sunny aces the colour all the time

sunny leone in a blue silk power suit slays it in style - Nov 06 2022

web sunny looked every bit stunning in a blue silk blazer and a pair of matching silk formal trousers auckland dj event so much fun sunny captioned her photos

in pics sunny leone s cropped shirt teamed with blue skirt is a - Jul 02 2022

web may 10 2023 bollywood actress sunny leone who often makes her fans go crazy with her fashion sense recently dropped a series of pictures on her instagram handle in a cropped silk shirt teamed with a blue short pencil skirt the pictures of the actress is going viral on social media